ALPHA GEOSCIENCE

Geology

Hydrology

Remediation

Water Supply

Data Usability Summary Report
for Alpha Analytical Labs
SDG Number: L2430219

8 Ground Water Samples, 1 Field duplicate,
1 Field Blank, and 1 Trip Blank
Collected May 30, 2024

Prepared by: Donald Anné
June 28, 2024

The data package contained the documentation as required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. All information appeared legible and complete. The data pack contained the results of volatile analyses for 8 ground water samples, 1 field duplicate, 1 field blank, and 1 trip blank; the results of semi-volatiles, SIM semi-volatiles, pesticides, PCBs, and dissolved and total TAL metal analyses for 8 ground water samples, 1 field duplicate, and 1 field blank; and the results of general chemistries analyses for 8 ground water samples and 1 field duplicate.

The overall performances of the analyses are acceptable. Alpha Analytical Labs did fulfill the requirements of the analytical methods.

The data are mostly acceptable with some issues that are identified in the accompanying data validation reviews. The following data were qualified:

- Positive volatile result for acetone was qualified as "not detected" (U) for sample MW-1S because the level reported in the sample was not significantly greater than (more than 10 times) the highest associated blank level.

- The positive volatile result for chloroform was qualified estimated (J) for sample MW-4D because the %D for chloroform was above the allowable maximum in the associated continuing calibration verification sample.

- The positive volatile result for acetone was qualified estimated, biased high (J+) for sample TB because 1 of 4 surrogate recoveries was above control limits for the sample.

- Positive SIM semi-volatile results for naphthalene were qualified as "not detected" (U) for samples MW-1S, MW-4D, MW-8S, DUP, and FB because the levels reported in the samples were not significantly greater than (more than 5 times) the highest associated blank level.

679 Plank Road ● Clifton Park, New York 12065 ● (518) 348-6995 ● Fax (518) 348-6966
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- Positive SIM semi-volatile results for anthracene were qualified as “not detected” (U) for samples MW-1S, MW-3S, MW-5S, MW-7S, and MW-8S because the levels reported in the samples were not significantly greater than (more than 5 times) the highest associated blank level.

- Positive SIM semi-volatile result for fluorene was qualified as “not detected” (U) for samples MW-4D, MW-7S, MW-8S, DUP, and FB because the level reported in the samples was not significantly greater than (more than 5 times) the highest associated blank level.

- Positive SIM semi-volatile results for phenanthrene were qualified as “not detected” (U) for samples MW-1S, MW-3S, MW-4D, MW-7S, MW-8S, and FB because the levels reported in the samples were not significantly greater than (more than 5 times) the highest associated blank level.

- Positive SIM semi-volatile results for 2-methylnaphthalene were qualified as “not detected” (U) for samples MW-1S, MW-4D, MW-8S, and FB because the levels reported in the samples were not significantly greater than (more than 5 times) the highest associated blank level.

- Positive SIM semi-volatile results for 2-chloronaphthalene and hexachlorobenzene were qualified as “not detected” (U) for sample MW-8S because the levels reported in the sample were not significantly greater than (more than 5 times) the highest associated blank level.

- Positive PCB results for aroclor 1254, aroclor 1260, and total PCBs were qualified as “rejected, unusable” (R) for all 8 ground water samples and the field duplicate because the level reported in the samples were not significantly greater than (more than 5 times) the highest associated blank level with Unacceptable levels of aroclor 1254, aroclor 1260, and total PCBs.

- The positive PCB result for aroclor 1260 was qualified as “estimated, biased low” (J-) for sample FB because the RPD for dual column quantitation of aroclor 1260 was above the allowable maximum, but was not above 70% and the lower result was reported.

- The positive dissolved metal results for sodium were qualified as estimated (J) for all 8 ground samples and field duplicate because the %D for sodium was above the allowable maximum in the associated aqueous dissolved serial dilution sample.

- The positive dissolved and total metal results for magnesium were qualified as “estimated” (J) for sample MW-1S because the dissolved concentration was greater than the total concentrations plus 10%.

- The positive dissolved and total metal results for nickel were qualified as “estimated” (J) for sample MW-8S because the dissolved concentration was greater than the total concentrations plus 10%.

- The positive dissolved and total metal results for potassium were qualified as “estimated” (J) for sample DUP because the dissolved concentration was greater than the total concentrations plus 10%.

- Positive wet chemistry results for sulfide were qualified as “estimated” (UJ) for all 8 ground water samples and field duplicate because the percent recovery for sulfide was below QC limits, but not below30% in the associated aqueous spike sample.

- Positive wet chemistry results for chloride were qualified as “estimated, biased low” (J-) for all 8 ground water samples and field duplicate because 2 of 2 percent recoveries for chloride were below QC limits, but not below30% in the associated aqueous MS/MSD sample.

- Positive wet chemistry results for fluoride were qualified as “estimated, biased low” (J-) for all 8 ground water samples and field duplicate because 1 of 2 percent recoveries for fluoride was below QC limits, but not below30% in the associated aqueous MS/MSD sample.

All data that are not qualified rejected, unusable (R) are considered usable with estimated (J, J-, J+, or UJ) data associated with a higher level of quantitative uncertainty. Detailed information on data quality is included in the data validation reviews.

Alpha Geoscience: Acronyms and Definitions

Data Validation Acronyms

AA	Atomic absorption, flame technique
BHC	Hexachlorocyclohexane
BFB	Bromofluorobenzene
CCB	Continuing calibration blank
CCC	Calibration check compound
CCV	Continuing calibration verification
CN	Cyanide
CRDL	Contract required detection limit
CRQL	Contract required quantitation limit
CVAA	Atomic adsorption, cold vapor technique
DCAA	2,4-Dichlophenylacetic acid
DCB	Decachlorobiphenyl
DFTPP	Decafluorotriphenyl phosphine
ECD	Electron capture detector
FAA	Atomic absorption, furnace technique
FID	Flame ionization detector
FNP	1-Fluoronaphthalene
GC	Gas chromatography
GC/MS	Gas chromatography/mass spectrometry
GPC	Gel permeation chromatography
ICB	Initial calibration blank
ICP	Inductively coupled plasma-atomic emission spectrometer
ICV	Initial calibration verification
IDL	Instrument detection limit
IS	Internal standard
LCS	Laboratory control sample
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate
MSA	Method of standard additions
MS/MSD	Matrix spike/matrix spike duplicate
PID	Photo ionization detector
PCB	Polychlorinated biphenyl
PCDD	Polychlorinated dibenzodioxins
PCDF	Polychlorinated dibenzofurans
QA	Quality assurance
QC	Quality control
RF	Response factor
RPD	Relative percent difference
RRF	Relative response factor
RRF(number)	Relative response factor at concentration of the number following
RT	Retention time
RRT	Relative retention time
SDG	Sample delivery group
SPCC	System performance check compound
TCX	Tetrachloro-m-xylene
%D	Percent difference
%R	Percent recovery
%RSD	Percent relative standard deviation

Data Validation Qualifiers Used in the QA/QC Reviews for USEPA Region II

U	=	Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank.
R	=	Unreliable result; data is rejected or unusable. Analyte may or may not be present in the sample. Supporting data or information is necessary to confirm the result.
N	=	Tentative identification. Analyte is considered present. Special methods may be needed to confirm its presence or absence during future sampling efforts.
J	=	Analyte is present. Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.
J-	=	Analyte is present. Reported value may be biased low and associated with a higher level of uncertainty than is normally expected with the analytical method.
J+	=	Analyte is present. Reported value may be biased high andassociated with a higher level of uncertainty than is normally expected with the analytical method.
UJ	=	Not detected, quantitation limit may be inaccurate or imprecise.

Note: These qualifiers are used for data validation purposes. The data validation qualifiers may differ from the qualifiers that the laboratory assigns to the data. Refer to the laboratory analytical report for the definitions of the laboratory qualifiers.

Qualified Data Section

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 11:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A14	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-01	Date Collected	: 05/30/24 13:05
Client ID	: MW-1S	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/05/24 11:31
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: PID
Lab File ID	: V30240605A14	Instrument ID	: VOA130
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U	
79-01-6	Trichloroethene	ND	0.50	0.18	U	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U	
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U	
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U	
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U	
179601-23-1	p/m-Xylene	ND	2.5	0.70	U	
95-47-6	o-Xylene	ND	2.5	0.70	U	
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U	
100-42-5	Styrene	ND	2.5	0.70	U	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U	
67-64-1	Acetone	2.3	5.0	1.5	J	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U	
78-93-3	2-Butanone	ND	5.0	1.9	U	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U	
591-78-6	2-Hexanone	ND	5.0	1.0	U	
74-97-5	Bromochloromethane	ND	2.5	0.70	U	
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U	
98-82-8	Isopropylbenzene	ND	2.5	0.70	U	
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U	
79-20-9	Methyl Acetate	ND	2.0	0.23	U	
110-82-7	Cyclohexane	ND	10	0.27	U	
123-91-1	1,4-Dioxane	ND	250	61.	U	

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 11:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A14	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 11:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A15	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-02	Date Collected	: 05/30/24 11:30
Client ID	: MW-2S	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/05/24 11:53
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: PID
Lab File ID	: V30240605A15	Instrument ID	: VOA130
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 11:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A15	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 12:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A16	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 12:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A16	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 12:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A16	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-04	Date Collected	: 05/30/24 13:45
Client ID	: MW-4D	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/05/24 12:38
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: PID
Lab File ID	: V30240605A17	Instrument ID	: VOA130
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-09-2	Methylene chloride	ND	2.5	0.70	U	
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U	
67-66-3	Chloroform	1.2	2.5	0.70	J	J
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U	
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U	
124-48-1	Dibromochloromethane	ND	0.50	0.15	U	
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U	
127-18-4	Tetrachloroethene	ND	0.50	0.18	U	
108-90-7	Chlorobenzene	ND	2.5	0.70	U	
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U	
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U	
75-27-4	Bromodichloromethane	ND	0.50	0.19	U	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U	
75-25-2	Bromoform	ND	2.0	0.65	U	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U	
71-43-2	Benzene	ND	0.50	0.16	U	
108-88-3	Toluene	ND	2.5	0.70	U	
100-41-4	Ethylbenzene	ND	2.5	0.70	U	
74-87-3	Chloromethane	ND	2.5	0.70	U	
74-83-9	Bromomethane	ND	2.5	0.70	U	
75-01-4	Vinyl chloride	ND	1.0	0.07	U	
75-00-3	Chloroethane	ND	2.5	0.70	U	
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U	

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 12:38
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A17	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 12:38
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A17	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 13:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A18	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 13:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A18	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 13:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A18	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 13:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A19	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-06	Date Collected	: 05/30/24 12:00
Client ID	: MW-6D	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/05/24 13:22
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: PID
Lab File ID	: V30240605A19	Instrument ID	: VOA130
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 13:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A19	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 13:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A20	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 13:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A20	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 13:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A20	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 14:06
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V30240605A21	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-08	Date Collected	: 05/30/24 16:10
Client ID	: MW-8S	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/05/24 14:06
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: MKS
Lab File ID	: V30240605A21	Instrument ID	: VOA130
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 14:06
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V30240605A21	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 14:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V30240605A22	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 14:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V30240605A22	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 14:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V30240605A22	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-10	**Date Collected**	: 05/30/24 14:25
Client ID	: FB	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 14:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V30240605A23	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-10	**Date Collected**	: 05/30/24 14:25
Client ID	: FB	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 14:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V30240605A23	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-10	**Date Collected**	: 05/30/24 14:25
Client ID	: FB	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 14:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V30240605A23	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-11	**Date Collected**	: 05/30/24 00:00
Client ID	: TB	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 15:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V30240605A24	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-11	Date Collected	: 05/30/24 00:00
Client ID	: TB	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/05/24 15:13
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: MKS
Lab File ID	: V30240605A24	Instrument ID	: VOA130
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U	
79-01-6	Trichloroethene	ND	0.50	0.18	U	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U	
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U	
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U	
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U	
179601-23-1	p/m-Xylene	ND	2.5	0.70	U	
95-47-6	o-Xylene	ND	2.5	0.70	U	
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U	
100-42-5	Styrene	ND	2.5	0.70	U	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U	
67-64-1	Acetone	1.8	5.0	1.5	J	J+
75-15-0	Carbon disulfide	ND	5.0	1.0	U	
78-93-3	2-Butanone	ND	5.0	1.9	U	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U	
591-78-6	2-Hexanone	ND	5.0	1.0	U	
74-97-5	Bromochloromethane	ND	2.5	0.70	U	
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U	
98-82-8	Isopropylbenzene	ND	2.5	0.70	U	
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U	
79-20-9	Methyl Acetate	ND	2.0	0.23	U	
110-82-7	Cyclohexane	ND	10	0.27	U	
123-91-1	1,4-Dioxane	ND	250	61.	U	

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-11	**Date Collected**	: 05/30/24 00:00
Client ID	: TB	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 15:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V30240605A24	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 17:38
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-01	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 17:38
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-01	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 17:38
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-01	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 18:00
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-02	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 18:00
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-02	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 18:00
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-02	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 18:23
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-03	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 18:23
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-03	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 18:23
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-03	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 13:09
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-04	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 13:09
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-04	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 13:09
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-04	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 18:45
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-05	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 18:45
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-05	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 18:45
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-05	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 19:07
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-06	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 19:07
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-06	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 19:07
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-06	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 19:30
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-07	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 19:30
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-07	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 19:30
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-07	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 19:52
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-08	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 19:52
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-08	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 19:52
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-08	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 20:15
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-09	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 20:15
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-09	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 20:15
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-09	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-10	**Date Collected**	: 05/30/24 14:25
Client ID	: FB	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 21:39
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-10	**Analyst**	: GMR
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-10	**Date Collected**	: 05/30/24 14:25
Client ID	: FB	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 21:39
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-10	**Analyst**	: GMR
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-10	**Date Collected**	: 05/30/24 14:25
Client ID	: FB	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 21:39
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-10	**Analyst**	: GMR
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-01	Date Collected	: 05/30/24 13:05
Client ID	: MW-1S	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/04/24 15:29
Sample Matrix	: WATER	Date Extracted	: 06/03/24
Analytical Method	: 1,8270E-SIM	Dilution Factor	: 1
Lab File ID	: 30219-01	Analyst	: JJW
Sample Amount	: 275 ml	Instrument ID	: SV119
Extraction Method	: EPA 3510C	GC Column	: RXI-5SilM
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
83-32-9	Acenaphthene	0.16	0.10	0.01		
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U	
206-44-0	Fluoranthene	0.04	0.10	0.02	J	
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U	
91-20-3	Naphthalene	0.07	0.10	0.05	J	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U	
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U	
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U	
218-01-9	Chrysene	ND	0.10	0.01	U	
208-96-8	Acenaphthylene	0.04	0.10	0.01	J	
120-12-7	Anthracene	0.08	0.10	0.01	J	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U	
86-73-7	Fluorene	0.13	0.10	0.01		
85-01-8	Phenanthrene	0.10	0.10	0.02	J	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U	
129-00-0	Pyrene	ND	0.10	0.02	U	
91-57-6	2-Methylnaphthalene	0.06	0.10	0.02	J	U
87-86-5	Pentachlorophenol	0.24	0.80	0.01	J	
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U	
67-72-1	Hexachloroethane	ND	0.80	0.06	U	

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-02	Date Collected	: 05/30/24 11:30
Client ID	: MW-2S	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/04/24 15:45
Sample Matrix	: WATER	Date Extracted	: 06/03/24
Analytical Method	: 1,8270E-SIM	Dilution Factor	: 1
Lab File ID	: 30219-02	Analyst	: JJW
Sample Amount	: 275 ml	Instrument ID	: SV119
Extraction Method	: EPA 3510C	GC Column	: RXI-5SilM
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	ND	0.10	0.05	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-03	Date Collected	: 05/30/24 10:07
Client ID	: MW-3S	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/04/24 16:02
Sample Matrix	: WATER	Date Extracted	: 06/03/24
Analytical Method	: 1,8270E-SIM	Dilution Factor	: 1
Lab File ID	: 30219-03	Analyst	: JJW
Sample Amount	: 275 ml	Instrument ID	: SV119
Extraction Method	: EPA 3510C	GC Column	: RXI-5SilM
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
83-32-9	Acenaphthene	ND	0.10	0.01	U	
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U	
206-44-0	Fluoranthene	0.08	0.10	0.02	J	
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U	
91-20-3	Naphthalene	ND	0.10	0.05	U	
56-55-3	Benzo(a)anthracene	0.09	0.10	0.02	J	
50-32-8	Benzo(a)pyrene	0.08	0.10	0.02	J	
205-99-2	Benzo(b)fluoranthene	0.23	0.10	0.01		
207-08-9	Benzo(k)fluoranthene	0.09	0.10	0.01	J	
218-01-9	Chrysene	0.14	0.10	0.01		
208-96-8	Acenaphthylene	0.03	0.10	0.01	J	
120-12-7	Anthracene	0.04	0.10	0.01	J	U
191-24-2	Benzo(ghi)perylene	0.16	0.10	0.01		
86-73-7	Fluorene	ND	0.10	0.01	U	
85-01-8	Phenanthrene	0.04	0.10	0.02	J	U
53-70-3	Dibenzo(a,h)anthracene	0.05	0.10	0.01	J	
193-39-5	Indeno(1,2,3-cd)pyrene	0.14	0.10	0.01		
129-00-0	Pyrene	0.07	0.10	0.02	J	
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U	
87-86-5	Pentachlorophenol	0.11	0.80	0.01	J	
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U	
67-72-1	Hexachloroethane	ND	0.80	0.06	U	

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-04	Date Collected	: 05/30/24 13:45
Client ID	: MW-4D	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/04/24 11:53
Sample Matrix	: WATER	Date Extracted	: 06/03/24
Analytical Method	: 1,8270E-SIM	Dilution Factor	: 1
Lab File ID	: 30219-04	Analyst	: JJW
Sample Amount	: 275 ml	Instrument ID	: SV119
Extraction Method	: EPA 3510C	GC Column	: RXI-5SilM
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
83-32-9	Acenaphthene	ND	0.10	0.01	U	
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U	
206-44-0	Fluoranthene	ND	0.10	0.02	U	
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U	
91-20-3	Naphthalene	0.18	0.10	0.05		U
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U	
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U	
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U	
218-01-9	Chrysene	ND	0.10	0.01	U	
208-96-8	Acenaphthylene	ND	0.10	0.01	U	
120-12-7	Anthracene	ND	0.10	0.01	U	
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U	
86-73-7	Fluorene	0.02	0.10	0.01	J	U
85-01-8	Phenanthrene	0.03	0.10	0.02	J	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U	
129-00-0	Pyrene	ND	0.10	0.02	U	
91-57-6	2-Methylnaphthalene	0.03	0.10	0.02	J	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U	
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U	
67-72-1	Hexachloroethane	ND	0.80	0.06	U	

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-05	Date Collected	: 05/30/24 14:28
Client ID	: MW-5S	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/04/24 16:18
Sample Matrix	: WATER	Date Extracted	: 06/03/24
Analytical Method	: 1,8270E-SIM	Dilution Factor	: 1
Lab File ID	: 30219-05	Analyst	: JJW
Sample Amount	: 275 ml	Instrument ID	: SV119
Extraction Method	: EPA 3510C	GC Column	: RXI-5SilM
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
83-32-9	Acenaphthene	0.04	0.10	0.01	J	
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U	
206-44-0	Fluoranthene	0.04	0.10	0.02	J	
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U	
91-20-3	Naphthalene	9.6	0.10	0.05		
56-55-3	Benzo(a)anthracene	0.02	0.10	0.02	J	
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U	
205-99-2	Benzo(b)fluoranthene	0.06	0.10	0.01	J	
207-08-9	Benzo(k)fluoranthene	0.02	0.10	0.01	J	
218-01-9	Chrysene	0.02	0.10	0.01	J	
208-96-8	Acenaphthylene	0.38	0.10	0.01		
120-12-7	Anthracene	0.05	0.10	0.01	J	U
191-24-2	Benzo(ghi)perylene	0.03	0.10	0.01	J	
86-73-7	Fluorene	0.43	0.10	0.01		
85-01-8	Phenanthrene	0.35	0.10	0.02		
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U	
193-39-5	Indeno(1,2,3-cd)pyrene	0.03	0.10	0.01	J	
129-00-0	Pyrene	0.03	0.10	0.02	J	
91-57-6	2-Methylnaphthalene	0.75	0.10	0.02		
87-86-5	Pentachlorophenol	ND	0.80	0.01	U	
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U	
67-72-1	Hexachloroethane	ND	0.80	0.06	U	

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-06	Date Collected	: 05/30/24 12:00
Client ID	: MW-6D	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/04/24 16:35
Sample Matrix	: WATER	Date Extracted	: 06/03/24
Analytical Method	: 1,8270E-SIM	Dilution Factor	: 1
Lab File ID	: 30219-06	Analyst	: JJW
Sample Amount	: 275 ml	Instrument ID	: SV119
Extraction Method	: EPA 3510C	GC Column	: RXI-5SilM
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	ND	0.10	0.05	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	0.03	0.10	0.01	J
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-07	Date Collected	: 05/30/24 11:00
Client ID	: MW-7S	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/04/24 16:52
Sample Matrix	: WATER	Date Extracted	: 06/03/24
Analytical Method	: 1,8270E-SIM	Dilution Factor	: 1
Lab File ID	: 30219-07	Analyst	: JJW
Sample Amount	: 275 ml	Instrument ID	: SV119
Extraction Method	: EPA 3510C	GC Column	: RXI-5SilM
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
83-32-9	Acenaphthene	ND	0.10	0.01	U	
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U	
206-44-0	Fluoranthene	0.03	0.10	0.02	J	
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U	
91-20-3	Naphthalene	ND	0.10	0.05	U	
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U	
50-32-8	Benzo(a)pyrene	0.02	0.10	0.02	J	
205-99-2	Benzo(b)fluoranthene	0.03	0.10	0.01	J	
207-08-9	Benzo(k)fluoranthene	0.02	0.10	0.01	J	
218-01-9	Chrysene	0.02	0.10	0.01	J	
208-96-8	Acenaphthylene	ND	0.10	0.01	U	
120-12-7	Anthracene	0.03	0.10	0.01	J	U
191-24-2	Benzo(ghi)perylene	0.02	0.10	0.01	J	
86-73-7	Fluorene	0.02	0.10	0.01	J	U
85-01-8	Phenanthrene	0.03	0.10	0.02	J	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U	
193-39-5	Indeno(1,2,3-cd)pyrene	0.02	0.10	0.01	J	
129-00-0	Pyrene	ND	0.10	0.02	U	
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U	
87-86-5	Pentachlorophenol	ND	0.80	0.01	U	
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U	
67-72-1	Hexachloroethane	ND	0.80	0.06	U	

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-08	Date Collected	: 05/30/24 16:10
Client ID	: MW-8S	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/04/24 17:08
Sample Matrix	: WATER	Date Extracted	: 06/03/24
Analytical Method	: 1,8270E-SIM	Dilution Factor	: 1
Lab File ID	: 30219-08	Analyst	: JJW
Sample Amount	: 275 ml	Instrument ID	: SV119
Extraction Method	: EPA 3510C	GC Column	: RXI-5SilM
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
83-32-9	Acenaphthene	ND	0.10	0.01	U	
91-58-7	2-Chloronaphthalene	0.02	0.20	0.02	J	U
206-44-0	Fluoranthene	0.03	0.10	0.02	J	
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U	
91-20-3	Naphthalene	0.25	0.10	0.05		U
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U	
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U	
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U	
218-01-9	Chrysene	ND	0.10	0.01	U	
208-96-8	Acenaphthylene	0.01	0.10	0.01	J	
120-12-7	Anthracene	0.03	0.10	0.01	J	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U	
86-73-7	Fluorene	0.02	0.10	0.01	J	U
85-01-8	Phenanthrene	0.04	0.10	0.02	J	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U	
129-00-0	Pyrene	ND	0.10	0.02	U	
91-57-6	2-Methylnaphthalene	0.03	0.10	0.02	J	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U	
118-74-1	Hexachlorobenzene	0.03	0.80	0.01	J	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U	

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-09	Date Collected	: 05/30/24 00:00
Client ID	: DUP	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/04/24 17:25
Sample Matrix	: WATER	Date Extracted	: 06/03/24
Analytical Method	: 1,8270E-SIM	Dilution Factor	: 1
Lab File ID	: 30219-09	Analyst	: JJW
Sample Amount	: 275 ml	Instrument ID	: SV119
Extraction Method	: EPA 3510C	GC Column	: RXI-5SilM
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
83-32-9	Acenaphthene	ND	0.10	0.01	U	
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U	
206-44-0	Fluoranthene	ND	0.10	0.02	U	
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U	
91-20-3	Naphthalene	0.11	0.10	0.05		U
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U	
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U	
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U	
218-01-9	Chrysene	ND	0.10	0.01	U	
208-96-8	Acenaphthylene	0.01	0.10	0.01	J	
120-12-7	Anthracene	ND	0.10	0.01	U	
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U	
86-73-7	Fluorene	0.01	0.10	0.01	J	U
85-01-8	Phenanthrene	ND	0.10	0.02	U	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U	
129-00-0	Pyrene	ND	0.10	0.02	U	
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U	
87-86-5	Pentachlorophenol	ND	0.80	0.01	U	
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U	
67-72-1	Hexachloroethane	ND	0.80	0.06	U	

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-10	Date Collected	: 05/30/24 14:25
Client ID	: FB	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/06/24 17:36
Sample Matrix	: WATER	Date Extracted	: 06/03/24
Analytical Method	: 1,8270E-SIM	Dilution Factor	: 1
Lab File ID	: 30219-10	Analyst	: RP
Sample Amount	: 275 ml	Instrument ID	: SV119
Extraction Method	: EPA 3510C	GC Column	: RXI-5SilM
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
83-32-9	Acenaphthene	ND	0.10	0.01	U	
91-58-7	2-Chloronaphthalene	0.02	0.20	0.02	J	
206-44-0	Fluoranthene	ND	0.10	0.02	U	
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U	
91-20-3	Naphthalene	0.10	0.10	0.05	J	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U	
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U	
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U	
218-01-9	Chrysene	ND	0.10	0.01	U	
208-96-8	Acenaphthylene	ND	0.10	0.01	U	
120-12-7	Anthracene	0.02	0.10	0.01	J	
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U	
86-73-7	Fluorene	0.02	0.10	0.01	J	U
85-01-8	Phenanthrene	0.03	0.10	0.02	J	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U	
129-00-0	Pyrene	ND	0.10	0.02	U	
91-57-6	2-Methylnaphthalene	0.02	0.10	0.02	J	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U	
118-74-1	Hexachlorobenzene	0.01	0.80	0.01	J	
67-72-1	Hexachloroethane	ND	0.80	0.06	U	

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 08:34
Sample Matrix	: WATER	**Date Extracted**	: 06/06/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240607a-07	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-01	Date Collected	: 05/30/24 13:05
Client ID	: MW-1S	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/07/24 08:34
Sample Matrix	: WATER	Date Extracted	: 06/06/24
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: P2240607a-07	Analyst	: MHG
Sample Amount	: 140 ml	Instrument ID	: PEST2
Extraction Method	: EPA 3510C	GC Column	: CLP-PesticideII
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
11097-69-1	Aroclor 1254	0.067	0.071	0.061	J	R
11096-82-5	Aroclor 1260	0.140	0.071	0.061		R
1336-36-3	PCBs, Total	0.207	0.071	0.061	J	R

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-02	Date Collected	: 05/30/24 11:30
Client ID	: MW-2S	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/07/24 08:43
Sample Matrix	: WATER	Date Extracted	: 06/06/24
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: P2240607a-08	Analyst	: MHG
Sample Amount	: 140 ml	Instrument ID	: PEST2
Extraction Method	: EPA 3510C	GC Column	: CLP-Pesticide
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
12674-11-2	Aroclor 1016	ND	0.071	0.061	U	
11104-28-2	Aroclor 1221	ND	0.071	0.061	U	
11141-16-5	Aroclor 1232	ND	0.071	0.061	U	
53469-21-9	Aroclor 1242	ND	0.071	0.061	U	
12672-29-6	Aroclor 1248	ND	0.071	0.061	U	
37324-23-5	Aroclor 1262	ND	0.071	0.061	U	
11100-14-4	Aroclor 1268	ND	0.071	0.061	U	
1336-36-3	PCBs, Total	0.215	0.071	0.061	J	R

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-02	Date Collected	: 05/30/24 11:30
Client ID	: MW-2S	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/07/24 08:43
Sample Matrix	: WATER	Date Extracted	: 06/06/24
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: P2240607a-08	Analyst	: MHG
Sample Amount	: 140 ml	Instrument ID	: PEST2
Extraction Method	: EPA 3510C	GC Column	: CLP-PesticideII
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
11097-69-1	Aroclor 1254	0.071	0.071	0.061	J	R
11096-82-5	Aroclor 1260	0.144	0.071	0.061		R

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-03	Date Collected	: 05/30/24 10:07
Client ID	: MW-3S	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/07/24 08:51
Sample Matrix	: WATER	Date Extracted	: 06/06/24
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: P2240607a-09	Analyst	: MHG
Sample Amount	: 140 ml	Instrument ID	: PEST2
Extraction Method	: EPA 3510C	GC Column	: CLP-Pesticide
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
12674-11-2	Aroclor 1016	ND	0.071	0.061	U	
11104-28-2	Aroclor 1221	ND	0.071	0.061	U	
11141-16-5	Aroclor 1232	ND	0.071	0.061	U	
53469-21-9	Aroclor 1242	ND	0.071	0.061	U	
12672-29-6	Aroclor 1248	ND	0.071	0.061	U	
37324-23-5	Aroclor 1262	ND	0.071	0.061	U	
11100-14-4	Aroclor 1268	ND	0.071	0.061	U	
1336-36-3	PCBs, Total	0.194	0.071	0.061	J	R

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-03	Date Collected	: 05/30/24 10:07
Client ID	: MW-3S	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/07/24 08:51
Sample Matrix	: WATER	Date Extracted	: 06/06/24
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: P2240607a-09	Analyst	: MHG
Sample Amount	: 140 ml	Instrument ID	: PEST2
Extraction Method	: EPA 3510C	GC Column	: CLP-PesticideII
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
11097-69-1	Aroclor 1254	0.064	0.071	0.061	J	R
11096-82-5	Aroclor 1260	0.130	0.071	0.061		R

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 09:00
Sample Matrix	: WATER	**Date Extracted**	: 06/06/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240607a-10	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-04	Date Collected	: 05/30/24 13:45
Client ID	: MW-4D	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/07/24 09:00
Sample Matrix	: WATER	Date Extracted	: 06/06/24
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: P2240607a-10	Analyst	: MHG
Sample Amount	: 140 ml	Instrument ID	: PEST2
Extraction Method	: EPA 3510C	GC Column	: CLP-PesticideII
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
11097-69-1	Aroclor 1254	0.076	0.071	0.061	R
11096-82-5	Aroclor 1260	0.157	0.071	0.061	R
1336-36-3	PCBs, Total	0.233	0.071	0.061	R

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-05	Date Collected	: 05/30/24 14:28
Client ID	: MW-5S	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/07/24 09:26
Sample Matrix	: WATER	Date Extracted	: 06/06/24
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: P2240607a-13	Analyst	: MHG
Sample Amount	: 140 ml	Instrument ID	: PEST2
Extraction Method	: EPA 3510C	GC Column	: CLP-Pesticide
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
12674-11-2	Aroclor 1016	ND	0.071	0.061	U	
11104-28-2	Aroclor 1221	ND	0.071	0.061	U	
11141-16-5	Aroclor 1232	ND	0.071	0.061	U	
53469-21-9	Aroclor 1242	ND	0.071	0.061	U	
12672-29-6	Aroclor 1248	ND	0.071	0.061	U	
37324-23-5	Aroclor 1262	ND	0.071	0.061	U	
11100-14-4	Aroclor 1268	ND	0.071	0.061	U	
1336-36-3	PCBs, Total	0.199	0.071	0.061	J	R

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-05	Date Collected	: 05/30/24 14:28
Client ID	: MW-5S	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/07/24 09:26
Sample Matrix	: WATER	Date Extracted	: 06/06/24
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: P2240607a-13	Analyst	: MHG
Sample Amount	: 140 ml	Instrument ID	: PEST2
Extraction Method	: EPA 3510C	GC Column	: CLP-PesticideII
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
11097-69-1	Aroclor 1254	0.069	0.071	0.061	J	R
11096-82-5	Aroclor 1260	0.130	0.071	0.061		R

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-06	Date Collected	: 05/30/24 12:00
Client ID	: MW-6D	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/07/24 09:35
Sample Matrix	: WATER	Date Extracted	: 06/06/24
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: P2240607a-14	Analyst	: MHG
Sample Amount	: 140 ml	Instrument ID	: PEST2
Extraction Method	: EPA 3510C	GC Column	: CLP-Pesticide
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
12674-11-2	Aroclor 1016	ND	0.071	0.061	U	
11104-28-2	Aroclor 1221	ND	0.071	0.061	U	
11141-16-5	Aroclor 1232	ND	0.071	0.061	U	
53469-21-9	Aroclor 1242	ND	0.071	0.061	U	
12672-29-6	Aroclor 1248	ND	0.071	0.061	U	
11096-82-5	Aroclor 1260	0.105	0.071	0.061	IP	R
37324-23-5	Aroclor 1262	ND	0.071	0.061	U	
11100-14-4	Aroclor 1268	ND	0.071	0.061	U	

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-06	Date Collected	: 05/30/24 12:00
Client ID	: MW-6D	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/07/24 09:35
Sample Matrix	: WATER	Date Extracted	: 06/06/24
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: P2240607a-14	Analyst	: MHG
Sample Amount	: 140 ml	Instrument ID	: PEST2
Extraction Method	: EPA 3510C	GC Column	: CLP-PesticideII
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
11097-69-1	Aroclor 1254	0.086	0.071	0.061	R
1336-36-3	PCBs, Total	0.245	0.071	0.061	R

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-07	Date Collected	: 05/30/24 11:00
Client ID	: MW-7S	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/07/24 09:43
Sample Matrix	: WATER	Date Extracted	: 06/06/24
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: P2240607a-15	Analyst	: MHG
Sample Amount	: 140 ml	Instrument ID	: PEST2
Extraction Method	: EPA 3510C	GC Column	: CLP-Pesticide
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
12674-11-2	Aroclor 1016	ND	0.071	0.061	U	
11104-28-2	Aroclor 1221	ND	0.071	0.061	U	
11141-16-5	Aroclor 1232	ND	0.071	0.061	U	
53469-21-9	Aroclor 1242	ND	0.071	0.061	U	
12672-29-6	Aroclor 1248	ND	0.071	0.061	U	
37324-23-5	Aroclor 1262	ND	0.071	0.061	U	
11100-14-4	Aroclor 1268	ND	0.071	0.061	U	
1336-36-3	PCBs, Total	0.212	0.071	0.061	J	R

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-07	Date Collected	: 05/30/24 11:00
Client ID	: MW-7S	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/07/24 09:43
Sample Matrix	: WATER	Date Extracted	: 06/06/24
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: P2240607a-15	Analyst	: MHG
Sample Amount	: 140 ml	Instrument ID	: PEST2
Extraction Method	: EPA 3510C	GC Column	: CLP-PesticideII
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
11097-69-1	Aroclor 1254	0.069	0.071	0.061	J	R
11096-82-5	Aroclor 1260	0.143	0.071	0.061		R

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 09:52
Sample Matrix	: WATER	**Date Extracted**	: 06/06/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240607a-16	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-08	Date Collected	: 05/30/24 16:10
Client ID	: MW-8S	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/07/24 09:52
Sample Matrix	: WATER	Date Extracted	: 06/06/24
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: P2240607a-16	Analyst	: MHG
Sample Amount	: 140 ml	Instrument ID	: PEST2
Extraction Method	: EPA 3510C	GC Column	: CLP-PesticideII
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
11097-69-1	Aroclor 1254	0.069	0.071	0.061	J	R
11096-82-5	Aroclor 1260	0.134	0.071	0.061		R
1336-36-3	PCBs, Total	0.203	0.071	0.061	J	R

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 10:01
Sample Matrix	: WATER	**Date Extracted**	: 06/06/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240607a-17	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-09	Date Collected	: 05/30/24 00:00
Client ID	: DUP	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/07/24 10:01
Sample Matrix	: WATER	Date Extracted	: 06/06/24
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: P2240607a-17	Analyst	: MHG
Sample Amount	: 140 ml	Instrument ID	: PEST2
Extraction Method	: EPA 3510C	GC Column	: CLP-PesticideII
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
11097-69-1	Aroclor 1254	0.078	0.071	0.061	R
11096-82-5	Aroclor 1260	0.160	0.071	0.061	R
1336-36-3	PCBs, Total	0.238	0.071	0.061	R

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-10	Date Collected	: 05/30/24 14:25
Client ID	: FB	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/07/24 10:10
Sample Matrix	: WATER	Date Extracted	: 06/06/24
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: P2240607a-18	Analyst	: MHG
Sample Amount	: 140 ml	Instrument ID	: PEST2
Extraction Method	: EPA 3510C	GC Column	: CLP-Pesticide
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
12674-11-2	Aroclor 1016	ND	0.071	0.061	U	
11104-28-2	Aroclor 1221	ND	0.071	0.061	U	
11141-16-5	Aroclor 1232	ND	0.071	0.061	U	
53469-21-9	Aroclor 1242	ND	0.071	0.061	U	
12672-29-6	Aroclor 1248	ND	0.071	0.061	U	
11096-82-5	Aroclor 1260	0.111	0.071	0.061	IP	J-
37324-23-5	Aroclor 1262	ND	0.071	0.061	U	
11100-14-4	Aroclor 1268	ND	0.071	0.061	U	

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-10	**Date Collected**	: 05/30/24 14:25
Client ID	: FB	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 10:10
Sample Matrix	: WATER	**Date Extracted**	: 06/06/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240607a-18	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-PesticideII
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
11097-69-1	Aroclor 1254	0.080	0.071	0.061	
1336-36-3	PCBs, Total	0.251	0.071	0.061	

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 23:42
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-23	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 23:42
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-23	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-02	Date Collected	: 05/30/24 11:30
Client ID	: MW-2S	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/05/24 23:54
Sample Matrix	: WATER	Date Extracted	: 06/05/24
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 20240605b-24	Analyst	: JAG
Sample Amount	: 140 ml	Instrument ID	: PEST20
Extraction Method	: EPA 3510C	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 23:54
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-24	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 00:07
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-25	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 00:07
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-25	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 23:04
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-20	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 23:04
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-20	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticidesII
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 00:19
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-26	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 00:19
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-26	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 00:31
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-27	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 00:31
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-27	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 00:44
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-28	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 00:44
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-28	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 00:56
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-29	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 00:56
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-29	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 01:09
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-30	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 01:09
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-30	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-10	**Date Collected**	: 05/30/24 14:25
Client ID	: FB	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 01:21
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-31	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-10	**Date Collected**	: 05/30/24 14:25
Client ID	: FB	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 01:21
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-31	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-01	Date Collected	: 05/30/24 13:05
Client ID	: MW-1S	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/10/24 21:27
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1931899.csv	Instrument ID	: ICPMSRQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/06/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	0.838	0.0100	0.00327	
7440-36-0	Antimony, Dissolved	0.00098	0.00400	0.00042	J
7440-38-2	Arsenic, Dissolved	0.00409	0.00050	0.00016	
7440-39-3	Barium, Dissolved	0.00771	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	105.	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00040	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	0.00049	0.00050	0.00016	J
7440-50-8	Copper, Dissolved	0.00114	0.00100	0.00038	
7439-89-6	Iron, Dissolved	0.122	0.0500	0.0191	
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	0.208	0.0700	0.0242	J
7439-96-5	Manganese, Dissolved	0.7264	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00451	0.00200	0.00055	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	43.1	0.100	0.0293	J
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	0.01710	0.00500	0.00157	
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-02	Date Collected	: 05/30/24 11:30
Client ID	: MW-2S	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/10/24 21:31
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1931899.csv	Instrument ID	: ICPMSRQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/06/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	0.00063	0.00400	0.00042	J
7440-38-2	Arsenic, Dissolved	0.00026	0.00050	0.00016	J
7440-39-3	Barium, Dissolved	0.02784	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	89.2	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00169	0.00100	0.00017	
7440-48-4	Cobalt, Dissolved	0.00043	0.00050	0.00016	J
7440-50-8	Copper, Dissolved	0.00207	0.00100	0.00038	
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	8.13	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	ND	0.00100	0.00044	U
7440-02-0	Nickel, Dissolved	ND	0.00200	0.00055	U
7440-09-7	Potassium, Dissolved	11.8	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	7.19	0.100	0.0293	J
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-03	Date Collected	: 05/30/24 10:07
Client ID	: MW-3S	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/10/24 21:36
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1931899.csv	Instrument ID	: ICPMSRQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/06/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	0.00111	0.00400	0.00042	J
7440-38-2	Arsenic, Dissolved	0.00054	0.00050	0.00016	
7440-39-3	Barium, Dissolved	0.07436	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	147.	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00177	0.00100	0.00017	
7440-48-4	Cobalt, Dissolved	0.00072	0.00050	0.00016	
7440-50-8	Copper, Dissolved	0.00331	0.00100	0.00038	
7439-89-6	Iron, Dissolved	0.0215	0.0500	0.0191	J
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	13.9	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.00781	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00089	0.00200	0.00055	J
7440-09-7	Potassium, Dissolved	18.3	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	16.7	0.100	0.0293	J
7440-28-0	Thallium, Dissolved	0.00017	0.00100	0.00014	J
7440-62-2	Vanadium, Dissolved	0.00292	0.00500	0.00157	J
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-04	Date Collected	: 05/30/24 13:45
Client ID	: MW-4D	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/10/24 20:21
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1931899.csv	Instrument ID	: ICPMSRQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/06/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	0.00052	0.00400	0.00042	J
7440-38-2	Arsenic, Dissolved	0.00017	0.00050	0.00016	J
7440-39-3	Barium, Dissolved	0.06716	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	24.0	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00153	0.00100	0.00017	
7440-48-4	Cobalt, Dissolved	ND	0.00050	0.00016	U
7440-50-8	Copper, Dissolved	ND	0.00100	0.00038	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	13.6	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.00087	0.00100	0.00044	J
7440-02-0	Nickel, Dissolved	0.00085	0.00200	0.00055	J
7440-09-7	Potassium, Dissolved	1.24	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-05	Date Collected	: 05/30/24 14:28
Client ID	: MW-5S	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/10/24 21:41
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1931899.csv	Instrument ID	: ICPMSRQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/06/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	0.00458	0.0100	0.00327	J
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	ND	0.00050	0.00016	U
7440-39-3	Barium, Dissolved	0.00732	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	13.2	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00032	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	ND	0.00050	0.00016	U
7440-50-8	Copper, Dissolved	ND	0.00100	0.00038	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	1.79	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.00073	0.00100	0.00044	J
7440-02-0	Nickel, Dissolved	0.00148	0.00200	0.00055	J
7440-09-7	Potassium, Dissolved	1.59	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	6.64	0.100	0.0293	J
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-06	Date Collected	: 05/30/24 12:00
Client ID	: MW-6D	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/10/24 21:46
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1931899.csv	Instrument ID	: ICPMSRQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/06/24

		mg/l				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
7429-90-5	Aluminum, Dissolved	0.00995	0.0100	0.00327	J	
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U	
7440-38-2	Arsenic, Dissolved	0.00027	0.00050	0.00016	J	
7440-39-3	Barium, Dissolved	0.06631	0.00050	0.00017		
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U	
7440-43-9	Cadmium, Dissolved	0.00006	0.00020	0.00005	J	
7440-70-2	Calcium, Dissolved	153.	0.100	0.0394		
7440-47-3	Chromium, Dissolved	0.00113	0.00100	0.00017		
7440-48-4	Cobalt, Dissolved	0.00057	0.00050	0.00016		
7440-50-8	Copper, Dissolved	0.00119	0.00100	0.00038		
7439-89-6	Iron, Dissolved	0.0230	0.0500	0.0191	J	
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U	
7439-96-5	Manganese, Dissolved	4.503	0.00100	0.00044		
7440-02-0	Nickel, Dissolved	0.00071	0.00200	0.00055	J	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U	
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U	
7440-23-5	Sodium, Dissolved	31.3	0.100	0.0293		J
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U	
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U	
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U	

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-07	Date Collected	: 05/30/24 11:00
Client ID	: MW-7S	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/10/24 21:50
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1931899.csv	Instrument ID	: ICPMSRQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/06/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	0.00018	0.00050	0.00016	J
7440-39-3	Barium, Dissolved	0.07266	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	113.	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00048	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	0.00028	0.00050	0.00016	J
7440-50-8	Copper, Dissolved	0.00131	0.00100	0.00038	
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	12.1	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.08083	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00059	0.00200	0.00055	J
7440-09-7	Potassium, Dissolved	11.9	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	22.5	0.100	0.0293	J
7440-28-0	Thallium, Dissolved	0.00026	0.00100	0.00014	J
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-08	Date Collected	: 05/30/24 16:10
Client ID	: MW-8S	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/10/24 21:55
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1931899.csv	Instrument ID	: ICPMSRQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/06/24

		mg/l				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U	
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U	
7440-38-2	Arsenic, Dissolved	0.00017	0.00050	0.00016	J	
7440-39-3	Barium, Dissolved	0.06408	0.00050	0.00017		
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U	
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U	
7440-70-2	Calcium, Dissolved	41.5	0.100	0.0394		
7440-47-3	Chromium, Dissolved	0.00034	0.00100	0.00017	J	
7440-48-4	Cobalt, Dissolved	0.00020	0.00050	0.00016	J	
7440-50-8	Copper, Dissolved	0.00252	0.00100	0.00038		
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U	
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U	
7439-95-4	Magnesium, Dissolved	4.26	0.0700	0.0242		
7439-96-5	Manganese, Dissolved	0.01073	0.00100	0.00044		
7440-02-0	Nickel, Dissolved	0.00656	0.00200	0.00055		J
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U	
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U	
7440-23-5	Sodium, Dissolved	31.8	0.100	0.0293		J
7440-28-0	Thallium, Dissolved	0.00018	0.00100	0.00014	J	
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U	
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U	

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-09	Date Collected	: 05/30/24 00:00
Client ID	: DUP	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/10/24 22:00
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1931899.csv	Instrument ID	: ICPMSRQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/06/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	0.00062	0.00400	0.00042	J
7440-38-2	Arsenic, Dissolved	0.00027	0.00050	0.00016	J
7440-39-3	Barium, Dissolved	0.06346	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	43.0	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00036	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	0.00018	0.00050	0.00016	J
7440-50-8	Copper, Dissolved	0.00257	0.00100	0.00038	
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	4.31	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.01084	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00064	0.00200	0.00055	J
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	32.2	0.100	0.0293	J
7440-28-0	Thallium, Dissolved	0.00018	0.00100	0.00014	J
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-10	Date Collected	: 05/30/24 14:25
Client ID	: FB	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/10/24 21:17
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1931899.csv	Instrument ID	: ICPMSRQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/06/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	ND	0.00050	0.00016	U
7440-39-3	Barium, Dissolved	ND	0.00050	0.00017	U
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	ND	0.100	0.0394	U
7440-47-3	Chromium, Dissolved	0.00020	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	ND	0.00050	0.00016	U
7440-50-8	Copper, Dissolved	ND	0.00100	0.00038	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	ND	0.0700	0.0242	U
7439-96-5	Manganese, Dissolved	ND	0.00100	0.00044	U
7440-02-0	Nickel, Dissolved	ND	0.00200	0.00055	U
7440-09-7	Potassium, Dissolved	ND	0.100	0.0309	U
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	ND	0.100	0.0293	U
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-01	Date Collected	: 05/30/24 13:05
Client ID	: MW-1S	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/10/24 16:06
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1931899.csv	Instrument ID	: ICPMSRQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/06/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	0.850	0.0100	0.00327	
7440-36-0	Antimony, Total	0.00098	0.00400	0.00042	J
7440-38-2	Arsenic, Total	0.00398	0.00050	0.00016	
7440-39-3	Barium, Total	0.00815	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	109.	0.100	0.0394	
7440-47-3	Chromium, Total	0.00042	0.00100	0.00017	J
7440-48-4	Cobalt, Total	0.00054	0.00050	0.00016	
7440-50-8	Copper, Total	0.00141	0.00100	0.00038	
7439-89-6	Iron, Total	0.306	0.0500	0.0191	
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	0.161	0.0700	0.0242	J
7439-96-5	Manganese, Total	0.6771	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00478	0.00200	0.00055	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	40.5	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	0.01972	0.00500	0.00157	
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 17:09
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-09-7	Potassium, Total	22.4	1.00	0.309	

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-02	Date Collected	: 05/30/24 11:30
Client ID	: MW-2S	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/10/24 16:11
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1931899.csv	Instrument ID	: ICPMSRQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/06/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	0.0208	0.0100	0.00327	
7440-36-0	Antimony, Total	0.00063	0.00400	0.00042	J
7440-38-2	Arsenic, Total	0.00018	0.00050	0.00016	J
7440-39-3	Barium, Total	0.02793	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	88.3	0.100	0.0394	
7440-47-3	Chromium, Total	0.00169	0.00100	0.00017	
7440-48-4	Cobalt, Total	0.00046	0.00050	0.00016	J
7440-50-8	Copper, Total	0.00200	0.00100	0.00038	
7439-89-6	Iron, Total	0.0278	0.0500	0.0191	J
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	7.93	0.0700	0.0242	
7439-96-5	Manganese, Total	0.00219	0.00100	0.00044	
7440-02-0	Nickel, Total	ND	0.00200	0.00055	U
7440-09-7	Potassium, Total	11.7	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	7.02	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

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Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-03	Date Collected	: 05/30/24 10:07
Client ID	: MW-3S	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/10/24 16:15
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1931899.csv	Instrument ID	: ICPMSRQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/06/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	0.00494	0.0100	0.00327	J
7440-36-0	Antimony, Total	0.00104	0.00400	0.00042	J
7440-38-2	Arsenic, Total	0.00058	0.00050	0.00016	
7440-39-3	Barium, Total	0.07415	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	143.	0.100	0.0394	
7440-47-3	Chromium, Total	0.00165	0.00100	0.00017	
7440-48-4	Cobalt, Total	0.00079	0.00050	0.00016	
7440-50-8	Copper, Total	0.00305	0.00100	0.00038	
7439-89-6	Iron, Total	0.0219	0.0500	0.0191	J
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	12.8	0.0700	0.0242	
7439-96-5	Manganese, Total	0.00735	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00069	0.00200	0.00055	J
7440-09-7	Potassium, Total	18.5	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	15.3	0.100	0.0293	
7440-28-0	Thallium, Total	0.00021	0.00100	0.00014	J
7440-62-2	Vanadium, Total	0.00299	0.00500	0.00157	J
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

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Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-04	Date Collected	: 05/30/24 13:45
Client ID	: MW-4D	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/10/24 15:43
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1931899.csv	Instrument ID	: ICPMSRQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/06/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	0.0167	0.0100	0.00327	
7440-36-0	Antimony, Total	0.00079	0.00400	0.00042	J
7440-38-2	Arsenic, Total	ND	0.00050	0.00016	U
7440-39-3	Barium, Total	0.06768	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	23.8	0.100	0.0394	
7440-47-3	Chromium, Total	0.00625	0.00100	0.00017	
7440-48-4	Cobalt, Total	ND	0.00050	0.00016	U
7440-50-8	Copper, Total	ND	0.00100	0.00038	U
7439-89-6	Iron, Total	0.0635	0.0500	0.0191	
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	13.2	0.0700	0.0242	
7439-96-5	Manganese, Total	0.00437	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00309	0.00200	0.00055	
7440-09-7	Potassium, Total	1.30	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

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Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 16:59
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-23-5	Sodium, Total	59.9	1.00	0.293	

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Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-05	Date Collected	: 05/30/24 14:28
Client ID	: MW-5S	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/10/24 16:36
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1931899.csv	Instrument ID	: ICPMSRQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/06/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	0.00634	0.0100	0.00327	J
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	ND	0.00050	0.00016	U
7440-39-3	Barium, Total	0.00824	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	15.6	0.100	0.0394	
7440-47-3	Chromium, Total	0.00056	0.00100	0.00017	J
7440-48-4	Cobalt, Total	ND	0.00050	0.00016	U
7440-50-8	Copper, Total	ND	0.00100	0.00038	U
7439-89-6	Iron, Total	ND	0.0500	0.0191	U
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	2.08	0.0700	0.0242	
7439-96-5	Manganese, Total	0.00150	0.00100	0.00044	
7440-02-0	Nickel, Total	ND	0.00200	0.00055	U
7440-09-7	Potassium, Total	1.82	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	7.16	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

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Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 17:13
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-95-4	Magnesium, Total	23.6	0.700	0.242	
7440-09-7	Potassium, Total	35.3	1.00	0.309	

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METALS

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-06	Date Collected	: 05/30/24 12:00
Client ID	: MW-6D	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/10/24 16:40
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1931899.csv	Instrument ID	: ICPMSRQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/06/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	0.150	0.0100	0.00327	
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	0.00038	0.00050	0.00016	J
7440-39-3	Barium, Total	0.08189	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	0.00007	0.00020	0.00005	J
7440-70-2	Calcium, Total	148.	0.100	0.0394	
7440-47-3	Chromium, Total	0.00900	0.00100	0.00017	
7440-48-4	Cobalt, Total	0.00076	0.00050	0.00016	
7440-50-8	Copper, Total	0.00173	0.00100	0.00038	
7439-89-6	Iron, Total	0.466	0.0500	0.0191	
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-96-5	Manganese, Total	4.509	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00604	0.00200	0.00055	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	30.9	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

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METALS

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-07	Date Collected	: 05/30/24 11:00
Client ID	: MW-7S	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/10/24 16:45
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1931899.csv	Instrument ID	: ICPMSRQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/06/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	ND	0.0100	0.00327	U
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	0.00020	0.00050	0.00016	J
7440-39-3	Barium, Total	0.07654	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	113.	0.100	0.0394	
7440-47-3	Chromium, Total	0.00105	0.00100	0.00017	
7440-48-4	Cobalt, Total	0.00028	0.00050	0.00016	J
7440-50-8	Copper, Total	0.00126	0.00100	0.00038	
7439-89-6	Iron, Total	ND	0.0500	0.0191	U
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	11.9	0.0700	0.0242	
7439-96-5	Manganese, Total	0.08168	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00075	0.00200	0.00055	J
7440-09-7	Potassium, Total	12.1	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	22.4	0.100	0.0293	
7440-28-0	Thallium, Total	0.00028	0.00100	0.00014	J
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

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METALS

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-08	Date Collected	: 05/30/24 16:10
Client ID	: MW-8S	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/10/24 16:50
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1931899.csv	Instrument ID	: ICPMSRQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/06/24

		mg/l				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
7429-90-5	Aluminum, Total	0.00487	0.0100	0.00327	J	
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U	
7440-38-2	Arsenic, Total	0.00018	0.00050	0.00016	J	
7440-39-3	Barium, Total	0.06372	0.00050	0.00017		
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U	
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U	
7440-70-2	Calcium, Total	41.6	0.100	0.0394		
7440-47-3	Chromium, Total	0.00112	0.00100	0.00017		
7440-48-4	Cobalt, Total	0.00021	0.00050	0.00016	J	
7440-50-8	Copper, Total	0.00248	0.00100	0.00038		
7439-89-6	Iron, Total	ND	0.0500	0.0191	U	
7439-92-1	Lead, Total	ND	0.00100	0.00034	U	
7439-95-4	Magnesium, Total	4.08	0.0700	0.0242		
7439-96-5	Manganese, Total	0.01224	0.00100	0.00044		
7440-02-0	Nickel, Total	0.00103	0.00200	0.00055	J	J
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U	
7440-22-4	Silver, Total	ND	0.00040	0.00016	U	
7440-23-5	Sodium, Total	30.9	0.100	0.0293		
7440-28-0	Thallium, Total	0.00019	0.00100	0.00014	J	
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U	
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U	

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 18:01
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-09-7	Potassium, Total	25.1	1.00	0.309	

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METALS

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab ID	:	L2430219-09	Date Collected	:	05/30/24 00:00
Client ID	:	DUP	Date Received	:	05/31/24
Sample Location	:	SPEONK, NY	Date Analyzed	:	06/10/24 18:06
Sample Matrix	:	WATER	Dilution Factor	:	10
Analytical Method	:	1,6020B	Analyst	:	NTB
Lab File ID	:	WG1931899.csv	Instrument ID	:	ICPMSRQ
Sample Amount	:	50ml	%Solids	:	N/A
Digestion Method	:	EPA 3005A	Date Digested	:	06/06/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7440-09-7	Potassium, Total	25.4	1.00	0.309	J

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METALS

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-09	Date Collected	: 05/30/24 00:00
Client ID	: DUP	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/10/24 16:55
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1931899.csv	Instrument ID	: ICPMSRQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/06/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	0.00391	0.0100	0.00327	J
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	0.00017	0.00050	0.00016	J
7440-39-3	Barium, Total	0.06447	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	41.5	0.100	0.0394	
7440-47-3	Chromium, Total	0.00055	0.00100	0.00017	J
7440-48-4	Cobalt, Total	0.00021	0.00050	0.00016	J
7440-50-8	Copper, Total	0.00262	0.00100	0.00038	
7439-89-6	Iron, Total	ND	0.0500	0.0191	U
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	4.12	0.0700	0.0242	
7439-96-5	Manganese, Total	0.01235	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00076	0.00200	0.00055	J
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	31.2	0.100	0.0293	
7440-28-0	Thallium, Total	0.00020	0.00100	0.00014	J
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-10	Date Collected	: 05/30/24 14:25
Client ID	: FB	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/10/24 16:31
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1931899.csv	Instrument ID	: ICPMSRQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/06/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	0.00867	0.0100	0.00327	J
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	ND	0.00050	0.00016	U
7440-39-3	Barium, Total	ND	0.00050	0.00017	U
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	0.0483	0.100	0.0394	J
7440-47-3	Chromium, Total	0.00034	0.00100	0.00017	J
7440-48-4	Cobalt, Total	ND	0.00050	0.00016	U
7440-50-8	Copper, Total	ND	0.00100	0.00038	U
7439-89-6	Iron, Total	ND	0.0500	0.0191	U
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	ND	0.0700	0.0242	U
7439-96-5	Manganese, Total	0.00095	0.00100	0.00044	J
7440-02-0	Nickel, Total	ND	0.00200	0.00055	U
7440-09-7	Potassium, Total	ND	0.100	0.0309	U
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	ND	0.100	0.0293	U
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/11/24 18:58
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: MRC
Lab File ID	: WG1932743.pdf	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-09-7	Potassium, Dissolved	24.0	0.100	0.0309	

Form 1
METALS

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab ID	:	L2430219-04	Date Collected	:	05/30/24 13:45
Client ID	:	MW-4D	Date Received	:	05/31/24
Sample Location	:	SPEONK, NY	Date Analyzed	:	06/11/24 18:10
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	1,6020B	Analyst	:	MRC
Lab File ID	:	WG1932743.pdf	Instrument ID	:	ICPMSRQ
Sample Amount	:	50ml	%Solids	:	N/A
Digestion Method	:	EPA 3005A	Date Digested	:	06/06/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7440-23-5	Sodium, Dissolved	51.6	0.100	0.0293	J

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/11/24 20:46
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: MRC
Lab File ID	: WG1932743.pdf	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-95-4	Magnesium, Dissolved	22.4	0.0700	0.0242	
7440-09-7	Potassium, Dissolved	36.6	0.100	0.0309	

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/11/24 19:09
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: MRC
Lab File ID	: WG1932743.pdf	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-09-7	Potassium, Dissolved	27.6	0.100	0.0309	

Form 1
METALS

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab ID	:	L2430219-09	Date Collected	:	05/30/24 00:00
Client ID	:	DUP	Date Received	:	05/31/24
Sample Location	:	SPEONK, NY	Date Analyzed	:	06/11/24 19:14
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	1,6020B	Analyst	:	MRC
Lab File ID	:	WG1932743.pdf	Instrument ID	:	ICPMSRQ
Sample Amount	:	50ml	%Solids	:	N/A
Digestion Method	:	EPA 3005A	Date Digested	:	06/06/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7440-09-7	Potassium, Dissolved	28.2	0.100	0.0309	J

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 08:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1930993.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 08:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1930993.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 08:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1930993.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 08:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1930993.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 08:58
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1930993.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 09:01
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1930993.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 09:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1930993.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 09:08
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1930993.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 09:11
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1930993.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-10	**Date Collected**	: 05/30/24 14:25
Client ID	: FB	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 09:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1930993.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/08/24 13:18
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: DJR
Lab File ID	: WG1931556.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/08/24 13:21
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: DJR
Lab File ID	: WG1931556.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/08/24 13:24
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: DJR
Lab File ID	: WG1931556.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/08/24 12:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: DJR
Lab File ID	: WG1931556.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/08/24 13:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: DJR
Lab File ID	: WG1931556.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/08/24 13:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: DJR
Lab File ID	: WG1931556.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/08/24 13:34
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: DJR
Lab File ID	: WG1931556.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/08/24 13:38
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: DJR
Lab File ID	: WG1931556.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/08/24 13:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: DJR
Lab File ID	: WG1931556.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-10	**Date Collected**	: 05/30/24 14:25
Client ID	: FB	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/08/24 13:58
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: DJR
Lab File ID	: WG1931556.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 10:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: JRO
Lab File ID	: WG1932041.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	2.0	0.30	0.30	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 10:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: JRO
Lab File ID	: WG1932041.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	1.3	0.30	0.30	

Form 1
WETCHEM

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab ID	:	L2430219-03	Date Collected	:	05/30/24 10:07
Client ID	:	MW-3S	Date Received	:	05/31/24
Sample Location	:	SPEONK, NY	Date Analyzed	:	06/10/24 10:48
Sample Matrix	:	WATER	Dilution Factor	:	2
Analytical Method	:	107,-	Analyst	:	JRO
Lab File ID	:	WG1932041.csv	Instrument ID	:	
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
NONE	Total Nitrogen	6.2	0.60	0.60	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 10:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: JRO
Lab File ID	: WG1932041.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	0.56	0.30	0.30	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 10:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: JRO
Lab File ID	: WG1932041.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	1.5	0.30	0.30	

Form 1
WETCHEM

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab ID	:	L2430219-06	Date Collected	:	05/30/24 12:00
Client ID	:	MW-6D	Date Received	:	05/31/24
Sample Location	:	SPEONK, NY	Date Analyzed	:	06/10/24 10:48
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	107,-	Analyst	:	JRO
Lab File ID	:	WG1932041.csv	Instrument ID	:	
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
NONE	Total Nitrogen	3.0	0.30	0.30	

Form 1
WETCHEM

Client	:	Alpha Geoscience	**Lab Number**	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	**Project Number**	:	20116
Lab ID	:	L2430219-07	**Date Collected**	:	05/30/24 11:00
Client ID	:	MW-7S	**Date Received**	:	05/31/24
Sample Location	:	SPEONK, NY	**Date Analyzed**	:	06/10/24 10:48
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	107,-	**Analyst**	:	JRO
Lab File ID	:	WG1932041.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	4.7	0.30	0.30	

Form 1
WETCHEM

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab ID	:	L2430219-08	Date Collected	:	05/30/24 16:10
Client ID	:	MW-8S	Date Received	:	05/31/24
Sample Location	:	SPEONK, NY	Date Analyzed	:	06/10/24 10:48
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	107,-	Analyst	:	JRO
Lab File ID	:	WG1932041.csv	Instrument ID	:	
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
NONE	Total Nitrogen	1.0	0.30	0.30	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 10:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: JRO
Lab File ID	: WG1932041.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	0.97	0.30	0.30	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/09/24 12:39
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320240609-B	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/07/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	1.60	0.300	0.066	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/09/24 12:43
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320240609-B	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/07/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.270	0.300	0.066	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/09/24 12:44
Sample Matrix	: WATER	**Dilution Factor**	: 2
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320240609-B	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/07/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.659	0.600	0.132	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/09/24 12:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320240609-B	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/07/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.129	0.300	0.066	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/09/24 12:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320240609-B	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/07/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.105	0.300	0.066	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/09/24 12:49
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320240609-B	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/07/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	2.37	0.300	0.066	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/09/24 12:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320240609-B	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/07/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.674	0.300	0.066	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/09/24 12:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320240609-B	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/07/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.428	0.300	0.066	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/09/24 12:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320240609-B	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/07/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.368	0.300	0.066	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 20:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240606-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.980	0.075	0.024	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 20:56
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240606-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.046	0.075	0.024	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 20:57
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240606-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	ND	0.075	0.024	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 20:58
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240606-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.024	0.075	0.024	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 21:04
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240606-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.193	0.075	0.024	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 21:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240606-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	2.20	0.075	0.024	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 21:06
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240606-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.061	0.075	0.024	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 21:07
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240606-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	ND	0.075	0.024	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 21:08
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240606-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	ND	0.075	0.024	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 05:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240604-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.43	0.10	0.046	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 05:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240604-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	1.3	0.10	0.046	

Form 1
WETCHEM

Client	:	Alpha Geoscience	**Lab Number**	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	**Project Number**	:	20116
Lab ID	:	L2430219-03	**Date Collected**	:	05/30/24 10:07
Client ID	:	MW-3S	**Date Received**	:	05/31/24
Sample Location	:	SPEONK, NY	**Date Analyzed**	:	06/04/24 05:32
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3240604-A1	**Instrument ID**	:	LACHAT
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	5.6	0.10	0.046	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 05:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240604-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.56	0.10	0.046	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 05:37
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240604-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	1.5	0.10	0.046	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 05:38
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240604-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.67	0.10	0.046	

Form 1
WETCHEM

Client	:	Alpha Geoscience	**Lab Number**	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	**Project Number**	:	20116
Lab ID	:	L2430219-07	**Date Collected**	:	05/30/24 11:00
Client ID	:	MW-7S	**Date Received**	:	05/31/24
Sample Location	:	SPEONK, NY	**Date Analyzed**	:	06/04/24 05:44
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3240604-A1	**Instrument ID**	:	LACHAT
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	4.0	0.10	0.046	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 05:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240604-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.60	0.10	0.046	

Form 1
WETCHEM

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab ID	:	L2430219-09	Date Collected	:	05/30/24 00:00
Client ID	:	DUP	Date Received	:	05/31/24
Sample Location	:	SPEONK, NY	Date Analyzed	:	06/04/24 05:46
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	121,4500NO3-F	Analyst	:	KAF
Lab File ID	:	NO3240604-A1	Instrument ID	:	LACHAT
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
NONE	Nitrogen, Nitrate/Nitrite	0.60	0.10	0.046	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 03:14
Sample Matrix	: WATER	**Dilution Factor**	: 2
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1929189.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	430	20	6.1	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 03:14
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1929189.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	270	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 03:14
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1929189.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	510	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 03:14
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1929189.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	250	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 03:14
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1929189.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	59.	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 03:14
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1929189.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	650	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 03:14
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1929189.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	480	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 03:14
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1929189.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	290	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 03:14
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1929189.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	270	13	4.0	

Form 1
WETCHEM

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab ID	:	L2430219-01	Date Collected	:	05/30/24 13:05
Client ID	:	MW-1S	Date Received	:	05/31/24
Sample Location	:	SPEONK, NY	Date Analyzed	:	06/05/24 08:40
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	121,4500S2-D	Analyst	:	DBN
Lab File ID	:	WG1929774.csv	Instrument ID	:	GENSYS10VI
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	06/05/24

		mg/l				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
18496-25-8	Sulfide	ND	0.10	0.10	U	UJ

Form 1
WETCHEM

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab ID	:	L2430219-02	Date Collected	:	05/30/24 11:30
Client ID	:	MW-2S	Date Received	:	05/31/24
Sample Location	:	SPEONK, NY	Date Analyzed	:	06/05/24 08:40
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	121,4500S2-D	Analyst	:	DBN
Lab File ID	:	WG1929774.csv	Instrument ID	:	GENSYS10VI
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	06/05/24

		mg/l				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
18496-25-8	Sulfide	ND	0.10	0.10	U	UJ

Form 1
WETCHEM

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab ID	:	L2430219-03	Date Collected	:	05/30/24 10:07
Client ID	:	MW-3S	Date Received	:	05/31/24
Sample Location	:	SPEONK, NY	Date Analyzed	:	06/05/24 08:41
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	121,4500S2-D	Analyst	:	DBN
Lab File ID	:	WG1929774.csv	Instrument ID	:	GENSYS10VI
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	06/05/24

		mg/l				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
18496-25-8	Sulfide	ND	0.10	0.10	U	UJ

Form 1
WETCHEM

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab ID	:	L2430219-04	Date Collected	:	05/30/24 13:45
Client ID	:	MW-4D	Date Received	:	05/31/24
Sample Location	:	SPEONK, NY	Date Analyzed	:	06/05/24 09:13
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	121,4500S2-D	Analyst	:	DBN
Lab File ID	:	WG1929774.csv	Instrument ID	:	GENSYS10VI
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	06/05/24

		mg/l				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
18496-25-8	Sulfide	ND	0.10	0.10	U	UJ

Form 1
WETCHEM

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab ID	:	L2430219-05	Date Collected	:	05/30/24 14:28
Client ID	:	MW-5S	Date Received	:	05/31/24
Sample Location	:	SPEONK, NY	Date Analyzed	:	06/05/24 09:15
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	121,4500S2-D	Analyst	:	DBN
Lab File ID	:	WG1929774.csv	Instrument ID	:	GENSYS10VI
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	06/05/24

		mg/l				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
18496-25-8	Sulfide	ND	0.10	0.10	U	UJ

Form 1
WETCHEM

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab ID	:	L2430219-06	Date Collected	:	05/30/24 12:00
Client ID	:	MW-6D	Date Received	:	05/31/24
Sample Location	:	SPEONK, NY	Date Analyzed	:	06/05/24 09:15
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	121,4500S2-D	Analyst	:	DBN
Lab File ID	:	WG1929774.csv	Instrument ID	:	GENSYS10VI
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	06/05/24

		mg/l				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
18496-25-8	Sulfide	ND	0.10	0.10	U	UJ

Form 1
WETCHEM

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab ID	:	L2430219-07	Date Collected	:	05/30/24 11:00
Client ID	:	MW-7S	Date Received	:	05/31/24
Sample Location	:	SPEONK, NY	Date Analyzed	:	06/05/24 09:16
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	121,4500S2-D	Analyst	:	DBN
Lab File ID	:	WG1929774.csv	Instrument ID	:	GENSYS10VI
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	06/05/24

		mg/l				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
18496-25-8	Sulfide	ND	0.10	0.10	U	UJ

Form 1
WETCHEM

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab ID	:	L2430219-08	Date Collected	:	05/30/24 16:10
Client ID	:	MW-8S	Date Received	:	05/31/24
Sample Location	:	SPEONK, NY	Date Analyzed	:	06/05/24 09:16
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	121,4500S2-D	Analyst	:	DBN
Lab File ID	:	WG1929774.csv	Instrument ID	:	GENSYS10VI
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	06/05/24

		mg/l				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
18496-25-8	Sulfide	ND	0.10	0.10	U	UJ

Form 1
WETCHEM

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab ID	:	L2430219-09	Date Collected	:	05/30/24 00:00
Client ID	:	DUP	Date Received	:	05/31/24
Sample Location	:	SPEONK, NY	Date Analyzed	:	06/05/24 09:17
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	121,4500S2-D	Analyst	:	DBN
Lab File ID	:	WG1929774.csv	Instrument ID	:	GENSYS10VI
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	06/05/24

		mg/l				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
18496-25-8	Sulfide	ND	0.10	0.10	U	UJ

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 08:32
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240606_WG1930503	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	207.	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 08:38
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240606_WG1930503	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	239.	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 13:21
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRM
Lab File ID	: 240607-1	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	49.1	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 08:46
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240606_WG1930503	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	18.8	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 08:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240606_WG1930503	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	351.	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 08:57
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240606_WG1930503	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	225.	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 09:02
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240606_WG1930503	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	80.3	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 09:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240606_WG1930503	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	82.2	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 07:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: WG1931179.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	30.4	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 07:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: WG1931178.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
71-52-3	Alkalinity, Bicarbonate	12.3	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 11:12
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS060724-WG1930485	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.074	0.031	0.012	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 11:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS060724-WG1930485	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.018	0.031	0.012	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 11:18
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS060724-WG1930485	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.040	0.031	0.012	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 11:19
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS060724-WG1930485	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.046	0.031	0.012	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 11:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS060724-WG1930485	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	ND	0.031	0.012	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 11:21
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS060724-WG1930485	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.083	0.031	0.012	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 11:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS060724-WG1930485	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.015	0.031	0.012	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 11:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS060724-WG1930485	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.015	0.031	0.012	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 11:24
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS060724-WG1930485	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.015	0.031	0.012	J

Form 1
WETCHEM

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab ID	:	L2430219-01	Date Collected	:	05/30/24 13:05
Client ID	:	MW-1S	Date Received	:	05/31/24
Sample Location	:	SPEONK, NY	Date Analyzed	:	06/04/24 21:29
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	44,300.0	Analyst	:	CVN,
Lab File ID	:	WG1929609-611-615	Instrument ID	:	IC3
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
16887-00-6	Chloride	34.0	0.500	0.083	J-
16984-48-8	Fluoride	0.093	0.050	0.037	J-

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 21:41
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1929609-611-615	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.409	0.500	0.132	J
14808-79-8	Sulfate	240.	10.0	4.54	

Form 1
WETCHEM

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab ID	:	L2430219-02	Date Collected	:	05/30/24 11:30
Client ID	:	MW-2S	Date Received	:	05/31/24
Sample Location	:	SPEONK, NY	Date Analyzed	:	06/04/24 21:53
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	44,300.0	Analyst	:	CVN,
Lab File ID	:	WG1929609-611-615	Instrument ID	:	IC3
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
24959-67-9	Bromide	ND	0.050	0.013	U
16887-00-6	Chloride	7.76	0.500	0.083	J-
16984-48-8	Fluoride	0.107	0.050	0.037	J-
14808-79-8	Sulfate	43.3	1.00	0.454	

Form 1
WETCHEM

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab ID	:	L2430219-03	Date Collected	:	05/30/24 10:07
Client ID	:	MW-3S	Date Received	:	05/31/24
Sample Location	:	SPEONK, NY	Date Analyzed	:	06/04/24 22:05
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	44,300.0	Analyst	:	CVN,
Lab File ID	:	WG1929609-611-615	Instrument ID	:	IC3
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
24959-67-9	Bromide	ND	0.050	0.013	U
16887-00-6	Chloride	16.4	0.500	0.083	J-
16984-48-8	Fluoride	0.134	0.050	0.037	J-

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 22:17
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1929609-611-615	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	163.	10.0	4.54	

Form 1
WETCHEM

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: L2430219-04	Date Collected	: 05/30/24 13:45
Client ID	: MW-4D	Date Received	: 05/31/24
Sample Location	: SPEONK, NY	Date Analyzed	: 06/04/24 23:42
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 44,300.0	Analyst	: CVN,
Lab File ID	: WG1929609-611-615	Instrument ID	: IC3
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
24959-67-9	Bromide	0.047	0.050	0.013	J
16984-48-8	Fluoride	0.077	0.050	0.037	J-
14808-79-8	Sulfate	7.90	1.00	0.454	

Form 1
WETCHEM

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab ID	:	L2430219-04	Date Collected	:	05/30/24 13:45
Client ID	:	MW-4D	Date Received	:	05/31/24
Sample Location	:	SPEONK, NY	Date Analyzed	:	06/05/24 00:18
Sample Matrix	:	WATER	Dilution Factor	:	10
Analytical Method	:	44,300.0	Analyst	:	CVN,
Lab File ID	:	WG1929609-611-615	Instrument ID	:	IC3
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
16887-00-6	Chloride	138.	5.00	0.839	J-

Form 1
WETCHEM

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab ID	:	L2430219-05	Date Collected	:	05/30/24 14:28
Client ID	:	MW-5S	Date Received	:	05/31/24
Sample Location	:	SPEONK, NY	Date Analyzed	:	06/05/24 00:30
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	44,300.0	Analyst	:	CVN,
Lab File ID	:	WG1929609-611-615	Instrument ID	:	IC3
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
24959-67-9	Bromide	0.041	0.050	0.013	J
16887-00-6	Chloride	10.1	0.500	0.083	J-
16984-48-8	Fluoride	0.068	0.050	0.037	J-
14808-79-8	Sulfate	22.8	1.00	0.454	

Form 1
WETCHEM

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab ID	:	L2430219-06	Date Collected	:	05/30/24 12:00
Client ID	:	MW-6D	Date Received	:	05/31/24
Sample Location	:	SPEONK, NY	Date Analyzed	:	06/04/24 22:29
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	44,300.0	Analyst	:	CVN,
Lab File ID	:	WG1929609-611-615	Instrument ID	:	IC3
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
24959-67-9	Bromide	0.159	0.050	0.013	
16887-00-6	Chloride	45.9	0.500	0.083	J-
16984-48-8	Fluoride	0.078	0.050	0.037	J-

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 22:41
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1929609-611-615	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	141.	10.0	4.54	

Form 1
WETCHEM

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab ID	:	L2430219-07	Date Collected	:	05/30/24 11:00
Client ID	:	MW-7S	Date Received	:	05/31/24
Sample Location	:	SPEONK, NY	Date Analyzed	:	06/05/24 00:42
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	44,300.0	Analyst	:	CVN,
Lab File ID	:	WG1929609-611-615	Instrument ID	:	IC3
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
24959-67-9	Bromide	0.114	0.050	0.013	
16887-00-6	Chloride	34.6	0.500	0.083	J-
16984-48-8	Fluoride	0.074	0.050	0.037	J-
14808-79-8	Sulfate	86.4	1.00	0.454	

Form 1
WETCHEM

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab ID	:	L2430219-08	Date Collected	:	05/30/24 16:10
Client ID	:	MW-8S	Date Received	:	05/31/24
Sample Location	:	SPEONK, NY	Date Analyzed	:	06/05/24 01:06
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	44,300.0	Analyst	:	CVN,
Lab File ID	:	WG1929609-611-615	Instrument ID	:	IC3
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
24959-67-9	Bromide	0.115	0.050	0.013	
16887-00-6	Chloride	45.6	0.500	0.083	J-
16984-48-8	Fluoride	0.077	0.050	0.037	J-
14808-79-8	Sulfate	72.0	1.00	0.454	

Form 1
WETCHEM

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab ID	:	L2430219-09	Date Collected	:	05/30/24 00:00
Client ID	:	DUP	Date Received	:	05/31/24
Sample Location	:	SPEONK, NY	Date Analyzed	:	06/05/24 02:07
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	44,300.0	Analyst	:	CVN,
Lab File ID	:	WG1929609-611-615	Instrument ID	:	IC3
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
24959-67-9	Bromide	0.117	0.050	0.013	
16887-00-6	Chloride	45.4	0.500	0.083	J-
16984-48-8	Fluoride	0.077	0.050	0.037	J-
14808-79-8	Sulfate	71.8	1.00	0.454	

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ANALYTICAL RESULTS

Project: L2430219
Pace Project No.: 50375152

Sample: MW-1S **Lab ID: 50375152001** Collected: 05/30/24 13:05 Received: 06/05/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/18/24 11:45		

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ANALYTICAL RESULTS

Project: L2430219
Pace Project No.: 50375152

Sample: MW-2S **Lab ID: 50375152002** Collected: 05/30/24 11:30 Received: 06/05/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/14/24 13:58		

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ANALYTICAL RESULTS

Project: L2430219
Pace Project No.: 50375152

Sample: MW-3S **Lab ID: 50375152003** Collected: 05/30/24 10:07 Received: 06/05/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/14/24 14:20		

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ANALYTICAL RESULTS

Project: L2430219
Pace Project No.: 50375152

Sample: MW-4D **Lab ID: 50375152004** Collected: 05/30/24 13:45 Received: 06/05/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/18/24 10:29		

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ANALYTICAL RESULTS

Project: L2430219
Pace Project No.: 50375152

Sample: MW-5S **Lab ID: 50375152005** Collected: 05/30/24 14:28 Received: 06/05/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/18/24 10:51		

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ANALYTICAL RESULTS

Project: L2430219
Pace Project No.: 50375152

Sample: MW-6D **Lab ID: 50375152006** Collected: 05/30/24 12:00 Received: 06/05/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/18/24 11:13		

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ANALYTICAL RESULTS

Project: L2430219
Pace Project No.: 50375152

Sample: MW-7S **Lab ID: 50375152007** Collected: 05/30/24 11:00 Received: 06/05/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/18/24 11:35		

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ANALYTICAL RESULTS

Project: L2430219
Pace Project No.: 50375152

Sample: MW-8S **Lab ID: 50375152008** Collected: 05/30/24 16:10 Received: 06/05/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/18/24 11:57		

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ANALYTICAL RESULTS

Project: L2430219
Pace Project No.: 50375152

Sample: DUP **Lab ID: 50375152009** Collected: 05/30/24 00:00 Received: 06/05/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/18/24 12:18		

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VOC Data Section

ALPHA GEOSCIENCE

Geology
Hydrology
Remediation
Water Supply

QA/QC Review of Method 8260D Volatiles Data
for Alpha Analytical, SDG Number: L2430219

8 Ground Water Samples, 1 Field Duplicate,
1 Field Blank, and 1 Trip Blank
Collected May 30, 2024

Prepared by: Donald Anné
June 28, 2024

Holding Times: The samples were analyzed within USEPA SW-846 holding times.

GC/MS Tuning and Mass Calibration: The BFB tuning criteria were within control limits.

Initial Calibration: The average RRFs for 7 compounds (highlighted yellow on attached Form 6) were below the method minimums, but not below 0.010 for VOA130 on 04-29-24. No action is taken on fewer than 20% of the compounds with method criteria outside control limits per calibration, provided no average RRF is less than 0.010.

The average RRFs for target compounds were above the allowable minimum (0.001 for 1,4-dioxane, 0.010 for all other compounds) and the %RSDs were below the allowable maximum (30%), as required.

Continuing Calibration: The average RRFs for 7 compounds (highlighted yellow on attached Form 7) were below the method minimums, but not below 0.010 on 06-05-24 (V30240605A01). The %Ds for chloromethane, trichlorofluoromethane, 1,1-dichloroethane, and chloroform were above the method maximum on 06-05-24 (V30240605A01). No action is taken on fewer than 20% of the compounds with method criteria outside control limits per calibration, provided no RRF is less than 0.010.

The RRFs for target compounds were above the allowable minimum (0.001 for 1,4-dioxane, 0.010 for all other compounds), as required.

The %Ds for chloromethane, trichlorofluoromethane, 1,1-dichloroethane, and chloroform were above the allowable maximum (20%) on 06-05-24 (V30240605A01). on 06-03-24 (VG240603N01). Positive results for these compounds should be considered estimated (J) in associated samples.

Blanks: The analyses of the method and field blanks reported target compounds as not detected. Trip blank TB contained a trace of acetone (1.8 ug/L). Positive results for acetone that are less than 10 times the highest blank level should be reported as not detected (U) in associated samples.

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www.alphageoscience.com

Surrogate Recovery: One of four surrogate recoveries for sample TB was above control limits. Positive result for sample TB should be considered estimated, biased high (J+).

Internal Standard Area Summary: The internal standard areas and retention times were within control limits.

Matrix Spike/Matrix Spike Duplicate: The relative percent differences for target compounds were below the allowable maximum, but 1 of 2 percent recoveries for chloromethane was above QC limits for aqueous MS/MSD sample MW-4D. Sample MW-4D reported chloromethane as "not detected"; therefore, no action is taken.

Laboratory Control Sample: The relative percent differences for target compounds were below the allowable maximum and the percent recoveries were within QC limits for aqueous samples WG1930005-3/4.

Field Duplicates: The analyses of aqueous field duplicate pair MW-8S/DUP reported target compounds as either not detected or below the lowest standard; therefore, valid relative percent differences could not be calculated. The analyses for the field duplicate pair were acceptable.

Compound ID: Checked compounds and surrogates were within GC/MS quantitation limits. The mass spectra for detected compounds contained the primary and secondary ions, as outlined in the method.

Surrogate Recovery Summary
Form 2
Volatiles

Client: Alpha Geoscience
Project Name: HUNTINGTON READY MIXED

Lab Number: L2430219
Project Number: 20116
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
MW-1S (L2430219-01)	120	100	104	114	0
MW-2S (L2430219-02)	122	101	103	115	0
MW-3S (L2430219-03)	120	100	103	113	0
MW-4D (L2430219-04)	124	99	103	115	0
MW-5S (L2430219-05)	124	98	102	114	0
MW-6D (L2430219-06)	127	100	102	114	0
MW-7S (L2430219-07)	127	100	103	115	0
MW-8S (L2430219-08)	126	99	102	116	0
DUP (L2430219-09)	126	100	101	115	0
FB (L2430219-10)	127	98	103	117	0
TB (L2430219-11)	131*	100	105	114	1
WG1930005-3LCS	112	102	100	100	0
WG1930005-4LCSD	118	101	101	103	0
WG1930005-5BLANK	116	101	104	107	0
MW-4DMS	131*	100	100	106	1
MW-4DMSD	126	101	100	104	0

QC LIMITS
(70-130) DCA = 1,2-DICHLOROETHANE-D4
(70-130) TOL = TOLUENE-D8
(70-130) BFB = 4-BROMOFLUOROBENZENE
(70-130) DBFM = DIBROMOFLUOROMETHANE

* Values outside of QC limits

FORM II NYTCL-8260-R2

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Client Sample ID	: MW-4D	Matrix (Level)	: WATER (LOW)
Lab Sample ID	: L2430219-04	Analysis Date	: 06/05/24 12:38
Matrix Spike	: WG1930005-6	MS Analysis Date	: 06/05/24 16:20
Matrix Spike Dup	: WG1930005-7	MSD Analysis Date	: 06/05/24 16:42

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	ND	10	11	110	10	11	110	0	70-130	20
1,1-Dichloroethane	ND	10	12	120	10	12	120	0	70-130	20
Chloroform	1.2J	10	13	130	10	13	130	0	70-130	20
Carbon tetrachloride	ND	10	12	120	10	12	120	0	63-132	20
1,2-Dichloropropane	ND	10	11	110	10	11	110	0	70-130	20
Dibromochloromethane	ND	10	9.4	94	10	9.9	99	5	63-130	20
1,1,2-Trichloroethane	ND	10	10	100	10	10	100	0	70-130	20
Tetrachloroethene	ND	10	9.0	90	10	9.2	92	2	70-130	20
Chlorobenzene	ND	10	9.7	97	10	10	100	3	75-130	20
Trichlorofluoromethane	ND	10	13	130	10	14	140	7	62-150	20
1,2-Dichloroethane	ND	10	12	120	10	12	120	0	70-130	20
1,1,1-Trichloroethane	ND	10	12	120	10	12	120	0	67-130	20
Bromodichloromethane	ND	10	11	110	10	11	110	0	67-130	20
trans-1,3-Dichloropropene	ND	10	9.2	92	10	9.8	98	6	70-130	20
cis-1,3-Dichloropropene	ND	10	9.0	90	10	9.4	94	4	70-130	20
Bromoform	ND	10	8.7	87	10	9.1	91	4	54-136	20
1,1,2,2-Tetrachloroethane	ND	10	11	110	10	11	110	0	67-130	20
Benzene	ND	10	11	110	10	11	110	0	70-130	20
Toluene	ND	10	10	100	10	11	110	10	70-130	20
Ethylbenzene	ND	10	10	100	10	11	110	10	70-130	20
Chloromethane	ND	10	13	130	10	14	140 Q	7	64-130	20
Bromomethane	ND	10	8.5	85	10	9.9	99	15	39-139	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Client Sample ID	: MW-4D	Matrix (Level)	: WATER (LOW)
Lab Sample ID	: L2430219-04	Analysis Date	: 06/05/24 12:38
Matrix Spike	: WG1930005-6	MS Analysis Date	: 06/05/24 16:20
Matrix Spike Dup	: WG1930005-7	MSD Analysis Date	: 06/05/24 16:42

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Vinyl chloride	ND	10	12	120	10	13	130	8	55-140	20
Chloroethane	ND	10	12	120	10	12	120	0	55-138	20
1,1-Dichloroethene	ND	10	10	100	10	10	100	0	61-145	20
trans-1,2-Dichloroethene	ND	10	10	100	10	10	100	0	70-130	20
Trichloroethene	ND	10	9.9	99	10	9.8	98	1	70-130	20
1,2-Dichlorobenzene	ND	10	9.4	94	10	9.9	99	5	70-130	20
1,3-Dichlorobenzene	ND	10	9.3	93	10	9.7	97	4	70-130	20
1,4-Dichlorobenzene	ND	10	9.3	93	10	9.6	96	3	70-130	20
Methyl tert butyl ether	ND	10	9.4	94	10	9.8	98	4	63-130	20
p/m-Xylene	ND	20	20	100	20	21	105	5	70-130	20
o-Xylene	ND	20	19	95	20	21	105	10	70-130	20
cis-1,2-Dichloroethene	ND	10	9.7	97	10	10	100	3	70-130	20
Styrene	ND	20	20	100	20	21	105	5	70-130	20
Dichlorodifluoromethane	ND	10	12	120	10	12	120	0	36-147	20
Acetone	ND	10	12	120	10	13	130	8	58-148	20
Carbon disulfide	ND	10	11	110	10	12	120	9	51-130	20
2-Butanone	ND	10	11	110	10	12	120	9	63-138	20
4-Methyl-2-pentanone	ND	10	9.6	96	10	10	100	4	59-130	20
2-Hexanone	ND	10	9.8	98	10	10	100	2	57-130	20
Bromochloromethane	ND	10	9.8	98	10	9.8	98	0	70-130	20
1,2-Dibromoethane	ND	10	8.9	89	10	9.6	96	8	70-130	20
1,2-Dibromo-3-chloropropane	ND	10	8.7	87	10	9.2	92	6	41-144	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Client Sample ID	: MW-4D	Matrix (Level)	: WATER (LOW)
Lab Sample ID	: L2430219-04	Analysis Date	: 06/05/24 12:38
Matrix Spike	: WG1930005-6	MS Analysis Date	: 06/05/24 16:20
Matrix Spike Dup	: WG1930005-7	MSD Analysis Date	: 06/05/24 16:42

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Isopropylbenzene	ND	10	9.8	98	10	10	100	2	70-130	20
1,2,3-Trichlorobenzene	ND	10	8.7	87	10	9.2	92	6	70-130	20
1,2,4-Trichlorobenzene	ND	10	8.5	85	10	8.9	89	5	70-130	20
Methyl Acetate	ND	10	12	120	10	11	110	9	70-130	20
Cyclohexane	ND	10	11	110	10	12	120	9	70-130	20
1,4-Dioxane	ND	500	400	80	500	490	98	20	56-162	20
Freon-113	ND	10	10	100	10	11	110	10	70-130	20
Methyl cyclohexane	ND	10	8.6J	86	10	9.5J	95	10	70-130	20

Initial Calibration Summary
Form 6
Volatiles

Client	: **Alpha Geoscience**	**Lab Number**	: **L2430219**
Project Name	: **HUNTINGTON READY MIXED**	**Project Number**	: **20116**
Instrument ID	: **VOA130**	**Ical Ref**	: **ICAL21085**
Calibration dates	: **04/29/24 17:24 04/29/24 20:40**		

Calibration Files
L11 =V30240429A06.D L1 =V30240429A03.D L2 =V30240429A07.D L3 =V30240429A08.D L4 =V30240429A09.D
L6 =V30240429A10.D L8 =V30240429A11.D L10 =V30240429A12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------									
2)	TP	Dichlorodifluo		0.174	0.213	0.185	0.199	0.180	0.185	0.169	0.186	8.09
3)	TP	Chloromethane		0.197	0.210	0.182	0.192	0.181	0.190	0.173	0.189	6.35
4)	TC	Vinyl chloride	0.193	0.187	0.228	0.201	0.211	0.192	0.201	0.183	0.200	7.26
5)	TP	Bromomethane		0.102	0.120	0.112	0.116	0.111	0.119	0.110	0.113	5.50
6)	TP	Chloroethane		0.149	0.143	0.118	0.118	0.104	0.112		0.124	14.53
7)	TP	Trichlorofluor		0.210	0.263	0.232	0.251	0.228	0.236	0.215	0.233	8.13
8)	TP	Ethyl ether		0.081	0.088	0.085	0.089	0.085	0.087	0.081	0.085	3.82
10)	TC	1,1-Dichloroet		0.165	0.184	0.160	0.172	0.157	0.165	0.151	0.165	6.50
11)	TP	Carbon disulfide		0.472	0.503	0.435	0.457	0.425	0.440	0.405	0.448	7.22
12)	TP	Freon-113		0.137	0.176	0.161	0.179	0.163	0.168	0.155	0.163	8.68
13)	TP	Iodomethane		0.170	0.230	0.223	0.246	0.238	0.254	0.234	0.228	12.09
14)	TP	Acrolein			0.021	0.019	0.018	0.017	0.017	0.017	0.018	8.67
15)	TP	Methylene chlo		0.223	0.213	0.187	0.188	0.173	0.180	0.164	0.190	11.11
17)	TP	Acetone			0.049	0.040	0.037	0.036	0.036	0.034	0.039	14.15
18)	TP	trans-1,2-Dich		0.178	0.197	0.175	0.182	0.168	0.176	0.161	0.177	6.37
19)	TP	Methyl acetate			0.098	0.086	0.084	0.082	0.082	0.080	0.085	7.79
21)	TP	Methyl tert butyl ether		0.318	0.349	0.381	0.435	0.430	0.440	0.410	0.395	11.91
22)	TP	tert-Butyl alc		0.010	0.011	0.012	0.012	0.013	0.012	0.012	0.012	7.36
24)	TP	Diisopropyl ether		0.423	0.457	0.437	0.501	0.485	0.511	0.468	0.469	6.92
25)	TP	1,1-Dichloroet		0.338	0.376	0.338	0.343	0.313	0.326	0.294	0.332	7.74
26)	TP	Halothane		0.118	0.144	0.135	0.146	0.134	0.140	0.128	0.135	7.20
27)	TP	Acrylonitrile		0.054	0.047	0.045	0.043	0.042	0.042	0.041	0.045	10.09
28)	TP	Ethyl tert-but		0.372	0.403	0.416	0.490	0.488	0.512	0.472	0.450	11.75
29)	TP	Vinyl acetate		0.238	0.238	0.239	0.281	0.283	0.259	0.237	0.254	8.20
30)	TP	cis-1,2-Dichlo		0.212	0.232	0.208	0.208	0.191	0.200	0.182	0.205	7.86
31)	TP	2,2-Dichloropr		0.273	0.301	0.271	0.279	0.251	0.261	0.234	0.267	8.06
33)	TP	Bromochloromet		0.086	0.104	0.096	0.098	0.091	0.094	0.086	0.093#	7.06
34)	TP	Cyclohexane		0.265	0.287	0.275	0.317	0.291	0.301	0.277	0.288	6.09
35)	TC	Chloroform		0.343	0.359	0.322	0.330	0.299	0.312	0.283	0.321	8.06
36)	TP	Ethyl acetate		0.081	0.098	0.105	0.117	0.121	0.119	0.116	0.108	13.43
37)	TP	Carbon tetrachloride	0.171	0.186	0.230	0.213	0.243	0.227	0.240	0.222	0.216	11.81
38)	TP	Tetrahydrofuran		0.029	0.037	0.035	0.036	0.034	0.034	0.033	0.034	7.20
39)	S	Dibromofluoromethane	0.315	0.313	0.310	0.294	0.274	0.264	0.262	0.260	0.287	8.40
40)	TP	1,1,1-Trichlor		0.241	0.284	0.265	0.287	0.263	0.275	0.252	0.267	6.26
42)	TP	2-Butanone			0.041	0.047	0.052	0.055	0.054	0.053	0.050	10.47

Initial Calibration Summary
Form 6
Volatiles

Client	: **Alpha Geoscience**	**Lab Number**	: **L2430219**
Project Name	: **HUNTINGTON READY MIXED**	**Project Number**	: **20116**
Instrument ID	: **VOA130**	**Ical Ref**	: **ICAL21085**
Calibration dates	: **04/29/24 17:24 04/29/24 20:40**		

Calibration Files
L11 =V30240429A06.D L1 =V30240429A03.D L2 =V30240429A07.D L3 =V30240429A08.D L4 =V30240429A09.D
L6 =V30240429A10.D L8 =V30240429A11.D L10 =V30240429A12.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
43) TP	1,1-Dichloropr		0.168	0.210	0.212	0.254	0.238	0.249	0.229	0.223	13.21
45) TP	Benzene	0.595	0.596	0.665	0.629	0.701	0.662	0.691	0.621	0.645	6.36
46) TP	Tertiary-Amyl Methyl Ether		0.355	0.376	0.370	0.421	0.420	0.439	0.411	0.399	7.98
47) S	1,2-Dichloroethane-d4	0.324	0.319	0.327	0.328	0.293	0.295	0.281	0.287	0.307	6.41
48) TP	1,2-Dichloroet		0.227	0.240	0.226	0.231	0.218	0.222	0.205	0.224	4.92
51) TP	Methyl cyclohe		0.211	0.255	0.239	0.291	0.283	0.296	0.277	0.265	11.75
52) TP	Trichloroethene	0.174	0.153	0.166	0.166	0.195	0.186	0.199	0.183	0.178#	8.92
54) TP	Dibromomethane		0.100	0.109	0.104	0.106	0.101	0.104	0.098	0.103	3.68
55) TC	1,2-Dichloropr		0.146	0.160	0.166	0.187	0.178	0.186	0.171	0.171	8.71
57) TP	2-Chloroethyl		0.068	0.080	0.085	0.095	0.092	0.096	0.090	0.087	11.40
58) TP	Bromodichlorom		0.218	0.232	0.230	0.251	0.239	0.249	0.229	0.235#	4.93
61) TP	1,4-Dioxane		0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001#	4.97
62) TP	cis-1,3-Dichlo		0.209	0.244	0.252	0.291	0.284	0.296	0.273	0.264#	11.87
63) I	Chlorobenzene-d5	----------ISTD----------									
64) S	Toluene-d8	1.318	1.323	1.304	1.308	1.312	1.308	1.317	1.300	1.311	0.58
65) TC	Toluene		0.500	0.546	0.528	0.589	0.550	0.585	0.526	0.546	5.90
66) TP	4-Methyl-2-pen		0.042	0.050	0.053	0.058	0.058	0.059	0.057	0.054	11.39
67) TP	Tetrachloroethene		0.181	0.217	0.207	0.245	0.235	0.253	0.231	0.224	10.89
69) TP	trans-1,3-Dich		0.204	0.237	0.272	0.335	0.340	0.358	0.330	0.297#	19.94
71) TP	Ethyl methacry		0.215	0.202	0.216	0.237	0.228	0.230	0.211	0.220	5.60
72) TP	1,1,2-Trichlor		0.113	0.122	0.136	0.162	0.166	0.172	0.162	0.147#	16.02
73) TP	Chlorodibromom		0.142	0.157	0.177	0.222	0.230	0.245		*Q	0.9992
74) TP	1,3-Dichloropr		0.217	0.260	0.283	0.333	0.335	0.350	0.324	0.300	16.14
75) TP	1,2-Dibromoethane		0.125	0.144	0.161	0.191	0.193	0.200	0.189	0.172#	16.82
77) TP	2-Hexanone		0.078	0.079	0.094	0.101	0.101	0.101	0.095	0.093	10.87
78) T	Chlorobenzene		0.525	0.598	0.575	0.641	0.603	0.638	0.574	0.593	6.78
79) TC	Ethylbenzene		0.884	1.046	1.005	1.130	1.037	1.086	0.957	1.021	7.99
80) T	1,1,1,2-Tetrac		0.147	0.167	0.175	0.216	0.217	0.237	0.220	0.197	17.09
81) TP	p/m Xylene		0.377	0.418	0.404	0.450	0.412	0.431	0.381	0.411	6.38
82) TP	o Xylene		0.369	0.407	0.398	0.437	0.400	0.417	0.369	0.400	6.18
83) TP	Styrene		0.613	0.672	0.662	0.727	0.659	0.679	0.583	0.656	7.10
84) I	1,4-Dichlorobenzene-d4	----------ISTD----------									
85) TP	Bromoform		0.160	0.173	0.186	0.225	0.238	0.254	0.247	0.212	18.02
87) TP	Isopropylbenzene		1.490	1.772	1.758	1.988	1.830	1.927	1.694	1.780	9.16
88) S	4-Bromofluorobenzene	0.928	0.912	0.924	0.912	0.900	0.895	0.896	0.894	0.908	1.48
89) TP	Bromobenzene		0.414	0.473	0.451	0.492	0.466	0.498	0.452	0.464	6.11

Initial Calibration Summary
Form 6
Volatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2430219**
Project Name	**: HUNTINGTON READY MIXED**	**Project Number**	**: 20116**
Instrument ID	**: VOA130**	**Ical Ref**	**: ICAL21085**
Calibration dates	**: 04/29/24 17:24 04/29/24 20:40**		

Calibration Files
L11 =V30240429A06.D L1 =V30240429A03.D L2 =V30240429A07.D L3 =V30240429A08.D L4 =V30240429A09.D
L6 =V30240429A10.D L8 =V30240429A11.D L10 =V30240429A12.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
90) TP	n-Propylbenzene		1.855	2.116	2.089	2.379	2.182	2.269	1.968	2.123	8.32
91) TP	1,4-Dichlorobu		0.423	0.468	0.457	0.499	0.481	0.498	0.463	0.470	5.62
92) TP	1,1,2,2-Tetrac		0.339	0.360	0.349	0.382	0.380	0.383	0.365	0.365	4.72
93) TP	4-Ethyltoluene		1.530	1.799	1.797	2.021	1.866	1.954	1.716	1.812	8.89
94) TP	2-Chlorotoluene		1.206	1.342	1.296	1.421	1.313	1.391	1.244	1.316	5.81
95) TP	1,3,5-Trimethy		1.328	1.527	1.548	1.775	1.653	1.721	1.511	1.580	9.51
96) TP	1,2,3-Trichlor		0.264	0.287	0.283	0.304	0.300	0.311	0.296	0.292	5.35
97) TP	trans-1,4-Dich		0.105	0.106	0.098	0.105	0.106	0.108	0.103	0.105	3.21
98) TP	4-Chlorotoluene		1.247	1.375	1.360	1.491	1.387	1.461	1.305	1.375	6.12
99) TP	tert-Butylbenzene		1.062	1.265	1.261	1.443	1.350	1.421	1.270	1.296	9.84
102) TP	1,2,4-Trimethy		1.256	1.423	1.478	1.724	1.628	1.710	1.503	1.532	10.96
103) TP	sec-Butylbenzene		1.493	1.800	1.819	2.097	1.970	2.037	1.789	1.858	10.87
104) TP	p-Isopropyltol		1.264	1.530	1.601	1.839	1.744	1.815	1.591	1.626	12.23
105) TP	1,3-Dichlorobe		0.770	0.884	0.868	0.958	0.902	0.957	0.862	0.886	7.27
106) TP	1,4-Dichlorobe		0.816	0.894	0.884	0.972	0.917	0.972	0.868	0.903	6.24
107) TP	p-Diethylbenzene		0.712	0.859	0.915	1.097	1.066	1.135	1.016	0.971	15.52
108) TP	n-Butylbenzene		0.995	1.198	1.280	1.554	1.497	1.554	1.376	1.350	15.39
109) TP	1,2-Dichlorobe		0.751	0.842	0.845	0.925	0.872	0.925	0.827	0.855	7.09
110) TP	1,2,4,5-Tetram		1.111	1.244	1.289	1.551	1.578	1.696	1.506	1.425	14.87
111) TP	1,2-Dibromo-3-		0.051	0.057	0.060	0.066	0.069	0.072	0.069	0.063	11.94
112) TP	1,3,5-Trichlor		0.491	0.553	0.578	0.678	0.694	0.746	0.671	0.630	14.43
113) TP	Hexachlorobuta		0.152	0.180	0.189	0.228	0.230	0.248	0.230	0.208	16.62
114) TP	1,2,4-Trichlor		0.445	0.517	0.538	0.621	0.632	0.669	0.611	0.576	13.66
115) TP	Naphthalene		1.141	1.258	1.318	1.417	1.424	1.437	1.310	1.329	8.09
116) TP	1,2,3-Trichlor		0.451	0.512	0.530	0.587	0.587	0.613	0.562	0.549	10.11

Calibration Verification Summary
Form 7
Volatiles

Client	: Alpha Geoscience		Lab Number	: L2430219	
Project Name	: HUNTINGTON READY MIXED		Project Number	: 20116	
Instrument ID	: VOA130		Calibration Date	: 06/05/24 06:45	
Lab File ID	: V30240605A01		Init. Calib. Date(s)	: 04/29/24	04/29/24
Sample No	: WG1930005-2		Init. Calib. Times	: 17:24	20:40
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	91	0
Dichlorodifluoromethane	0.186	0.203	-	-9.1	20	100	0
Chloromethane	0.189	0.242	-	-28*	20	121	0
Vinyl chloride	0.2	0.232	-	-16	20	105	0
Bromomethane	0.113	0.1	-	11.5	20	81	0
Chloroethane	0.124	0.141	-	-13.7	20	109	0
Trichlorofluoromethane	0.233	0.291	-	-24.9*	20	114	0
Ethyl ether	0.085	0.077	-	9.4	20	83	0
1,1-Dichloroethene	0.165	0.164	-	0.6	20	93	0
Carbon disulfide	0.448	0.532	-	-18.8	20	111	0
Freon-113	0.163	0.17	-	-4.3	20	96	0
Acrolein	0.018	0.024	-	-33.3*	20	112	0
Methylene chloride	0.19	0.207	-	-8.9	20	101	0
Acetone	0.039	0.038	-	2.6	20	85	0
trans-1,2-Dichloroethene	0.177	0.185	-	-4.5	20	96	0
Methyl acetate	0.085	0.088	-	-3.5	20	93	0
Methyl tert-butyl ether	0.395	0.336	-	14.9	20	80	0
tert-Butyl alcohol	0.01175	0.00951*	-	19.1	20	72	0
Diisopropyl ether	0.469	0.525	-	-11.9	20	109	0
1,1-Dichloroethane	0.332	0.403	-	-21.4*	20	108	0
Halothane	0.135	0.126	-	6.7	20	85	-.01
Acrylonitrile	0.045	0.045	-	0	20	91	0
Ethyl tert-butyl ether	0.45	0.422	-	6.2	20	92	0
Vinyl acetate	0.254	0.304	-	-19.7	20	115	0
cis-1,2-Dichloroethene	0.205	0.205	-	0	20	89	0
2,2-Dichloropropane	0.267	0.305	-	-14.2	20	102	0
Bromochloromethane	0.093	0.089*	-	4.3	20	84	0
Cyclohexane	0.288	0.323	-	-12.2	20	107	0
Chloroform	0.321	0.387	-	-20.6*	20	109	0
Ethyl acetate	0.108	0.107	-	0.9	20	93	0
Carbon tetrachloride	0.216	0.239	-	-10.6	20	102	0
Tetrahydrofuran	0.034	0.037	-	-8.8	20	96	0
Dibromofluoromethane	0.287	0.285	-	0.7	20	88	0
1,1,1-Trichloroethane	0.267	0.294	-	-10.1	20	101	0
2-Butanone	0.05	0.051	-	-2	20	100	0
1,1-Dichloropropene	0.223	0.234	-	-4.9	20	100	0
Benzene	0.645	0.72	-	-11.6	20	104	0
tert-Amyl methyl ether	0.399	0.331	-	17	20	81	0
1,2-Dichloroethane-d4	0.307	0.344	-	-12.1	20	95	0
1,2-Dichloroethane	0.224	0.242	-	-8	20	97	0
Methyl cyclohexane	0.265	0.262	-	1.1	20	99	0
Trichloroethene	0.178	0.17*	-	4.5	20	93	0
Dibromomethane	0.103	0.101	-	1.9	20	88	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Alpha Geoscience		Lab Number	: L2430219	
Project Name	: HUNTINGTON READY MIXED		Project Number	: 20116	
Instrument ID	: VOA130		Calibration Date	: 06/05/24 06:45	
Lab File ID	: V30240605A01		Init. Calib. Date(s)	: 04/29/24	04/29/24
Sample No	: WG1930005-2		Init. Calib. Times	: 17:24	20:40
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.171	0.187	-	-9.4	20	102	0
Bromodichloromethane	0.235	0.246*	-	-4.7	20	97	0
1,4-Dioxane	0.00144	0.00116*	-	19.4	20	72	0
cis-1,3-Dichloropropene	0.264	0.255*	-	3.4	20	92	0
Chlorobenzene-d5	1	1	-	0	20	84	0
Toluene-d8	1.311	1.341	-	-2.3	20	86	0
Toluene	0.546	0.586	-	-7.3	20	93	0
4-Methyl-2-pentanone	0.054	0.044	-	18.5	20	70	0
Tetrachloroethene	0.224	0.211	-	5.8	20	86	0
trans-1,3-Dichloropropene	0.297	0.29*	-	2.4	20	89	0
Ethyl methacrylate	0.22	0.172	-	21.8*	20	67	0
1,1,2-Trichloroethane	0.147	0.142*	-	3.4	20	88	0
Chlorodibromomethane	10	9.301	-	7	20	88	0
1,3-Dichloropropane	0.3	0.309	-	-3	20	92	0
1,2-Dibromoethane	0.172	0.151*	-	12.2	20	78	0
2-Hexanone	0.093	0.076	-	18.3	20	68	0
Chlorobenzene	0.593	0.605	-	-2	20	88	0
Ethylbenzene	1.021	1.137	-	-11.4	20	95	0
1,1,1,2-Tetrachloroethane	0.197	0.185	-	6.1	20	89	0
p/m Xylene	0.411	0.437	-	-6.3	20	91	0
o Xylene	0.4	0.414	-	-3.5	20	87	0
Styrene	0.656	0.693	-	-5.6	20	88	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	84	0
Bromoform	0.212	0.182	-	14.2	20	82	0
Isopropylbenzene	1.78	1.941	-	-9	20	93	0
4-Bromofluorobenzene	0.908	0.905	-	0.3	20	84	0
Bromobenzene	0.464	0.447	-	3.7	20	84	0
n-Propylbenzene	2.123	2.455	-	-15.6	20	99	0
1,4-Dichlorobutane	0.47	0.501	-	-6.6	20	92	0
1,1,2,2-Tetrachloroethane	0.365	0.358	-	1.9	20	86	0
4-Ethyltoluene	1.812	1.915	-	-5.7	20	90	0
2-Chlorotoluene	1.316	1.495	-	-13.6	20	97	0
1,3,5-Trimethylbenzene	1.58	1.648	-	-4.3	20	90	0
1,2,3-Trichloropropane	0.292	0.286	-	2.1	20	85	0
trans-1,4-Dichloro-2-buten	0.105	0.095	-	9.5	20	82	0
4-Chlorotoluene	1.375	1.503	-	-9.3	20	93	0
tert-Butylbenzene	1.296	1.383	-	-6.7	20	93	0
1,2,4-Trimethylbenzene	1.532	1.616	-	-5.5	20	92	0
sec-Butylbenzene	1.858	2.103	-	-13.2	20	98	0
p-Isopropyltoluene	1.626	1.729	-	-6.3	20	91	0
1,3-Dichlorobenzene	0.886	0.911	-	-2.8	20	89	0
1,4-Dichlorobenzene	0.903	0.921	-	-2	20	88	0
p-Diethylbenzene	0.971	0.968	-	0.3	20	89	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Alpha Geoscience		**Lab Number**	: L2430219	
Project Name	: HUNTINGTON READY MIXED		**Project Number**	: 20116	
Instrument ID	: VOA130		**Calibration Date**	: 06/05/24 06:45	
Lab File ID	: V30240605A01		**Init. Calib. Date(s)**	: 04/29/24	04/29/24
Sample No	: WG1930005-2		**Init. Calib. Times**	: 17:24	20:40
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
n-Butylbenzene	1.35	1.594	-	-18.1	20	105	0
1,2-Dichlorobenzene	0.855	0.851	-	0.5	20	85	0
1,2,4,5-Tetramethylbenzene	1.425	1.497	-	-5.1	20	98	0
1,2-Dibromo-3-chloropropan	0.063	0.051	-	19	20	71	0
1,3,5-Trichlorobenzene	0.63	0.641	-	-1.7	20	94	0
Hexachlorobutadiene	0.208	0.216	-	-3.8	20	96	0
1,2,4-Trichlorobenzene	0.576	0.561	-	2.6	20	88	0
Naphthalene	1.329	1.165	-	12.3	20	75	0
1,2,3-Trichlorobenzene	0.549	0.521	-	5.1	20	83	0

*** Value outside of QC limits.**

SVOC Data Section

ALPHA GEOSCIENCE

Geology
Hydrology
Remediation
Water Supply

QA/QC Review of Method 8270E Semi-Volatiles
Data for Alpha Analytical, SDG Number: L2430219

8 Ground Water Samples, 1 Field Duplicate,
and 1 Field Blank
Collected May 30, 2024

Prepared by: Donald Anné
June 28, 2024

Holding Times: Samples were extracted and analyzed within USEPA SW-846 holding times.

GC/MS Tuning and Mass Calibration: The DFTPP tuning criteria were within control limits.

Initial Calibration: The average RRFs for 2-chloronaphthalene and 2,6-dinitrotoluene were below the method minimums, but not below 0.010 for DAKOTA on 05-31-24. No action is taken on fewer than 20% of the compounds with method criteria outside control limits per calibration, provided no average RRF is less than 0.010.

The average RRFs for target compounds were above the allowable minimum (0.010) and the %RSDs were below the allowable maximum (30%), as required.

Continuing Calibration: The RRFs for 2-chloronaphthalene and 2,6-dinitrotoluene were below the method minimums, but not below 0.010 on 06-05-24 (WG1929981-3). The RRFs for 2-chloronaphthalene and 2,6-dinitrotoluene were below the method minimums, but not below 0.010 on 06-06-24 (WG1930740-3). The %Ds for hexachlorocyclopentadiene and 2-nitroaniline were above the method maximum on 06-05-24 (WG1929981-3). The %Ds for 2,6-dinitrotoluene, 2,4-dinitrophenol, 2,4-dinitritoluene, and 4,6-dinitro-o-cresol were above the method maximum on 06-06-24 (WG1930740-3). No action is taken on fewer than 20% of the compounds with method criteria outside control limits per calibration, provided no RRF is less than 0.010.

The RRFs for target compounds were above the allowable minimum (0.010), as required.

The %Ds for hexachlorocyclopentadiene and 2-nitroaniline were above the allowable maximum (20%) on 06-05-24 (WG1929981-3). The %Ds for 2,6-dinitrotoluene, 2,4-dinitrophenol, 2,4-dinitritoluene, and 4,6-dinitro-o-cresol were above the allowable maximum (20%) on 06-06-24 (WG1930740-3). Positive results for these compounds should be considered estimated (J) in associated samples.

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Blanks: The analyses of the method and field blanks reported target compounds as not detected.

Internal Standard Area Summary: The internal standard areas and retention times were within control limits.

Surrogate Recovery: The surrogate recoveries were within control limits for the ground water samples and field blank.

Matrix Spike/Matrix Spike Duplicate: The relative percent differences for target compounds were below the allowable maximum and the percent recoveries were within QC limits for aqueous MS/MSD sample MW-4D.

Laboratory Control Sample: The relative percent differences for target compounds were below the allowable maximum and the percent recoveries were within QC limits for aqueous samples WG1929069-2/3.

Field Duplicates: The analyses of aqueous field duplicate pair MW-8S/DUP reported target compounds as not detected; therefore, valid relative percent differences could not be calculated. The analyses for the field duplicate pair were acceptable.

Compound ID: Checked surrogates were within GC/MS quantitation limits. The analyses of the ground water samples reported target compounds as not detected.

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2430219**
Project Name	**: HUNTINGTON READY MIXED**	**Project Number**	**: 20116**
Instrument ID	**: DAKOTA**	**Ical Ref**	**: ICAL21172**
Calibration dates	**: 05/31/24 18:03 06/01/24 05:05**		

Calibration Files
L1 =ADPL1.D L2 =ADPL2.D L3 =ADPL3.D L4 =ADPL4.D L5 =ADPL5.D L6 =ADPL6.D L7 =ADPL7.D
L8 =ADPL8.D L9 =ADPL9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------										
2)	t	N-Nitrosodimethylamine		0.597	0.697	0.555	0.633	0.620	0.652	0.673	0.718	0.643	8.34
3)	t	Pyridine	0.929	0.975	1.080	0.985	1.011	1.042	1.102	1.158	1.181	1.051	8.14
4)	S	2-Fluorophenol	1.113	0.992	0.994	0.905	0.932	0.952	1.018	1.041	1.081	1.003	6.79
5)	T	Aniline	1.681	1.816	1.630	1.404	1.488	1.596	1.653	1.656	1.700	1.625	7.40
6)	t	2-Chlorophenol	1.059	1.212	1.145	1.011	1.069	1.131	1.151	1.151	1.160	1.121	5.54
7)	S	Phenol-d6	1.072	1.411	1.263	1.105	1.167	1.233	1.277	1.320	1.349	1.244	9.03
8)	T	Phenol	1.360	1.452	1.355	1.264	1.330	1.396	1.441	1.465	1.476	1.393	5.14
9)	T	bis(2-Chloroethyl)ether	0.827	1.142	0.959	0.892	0.893	0.961	0.956	0.938	0.960	0.948	9.07
10)	T	1,3-Dichlorobenzene	1.477	1.532	1.540	1.291	1.355	1.375	1.419	1.386	1.419	1.422	5.80
11)	T	1,4-Dichlorobenzene	1.675	1.516	1.348	1.290	1.301	1.375	1.414	1.380	1.403	1.411	8.45
12)	T	1,2-Dichlorobenzene	1.415	1.526	1.388	1.239	1.293	1.371	1.384	1.330	1.330	1.364	5.96
13)	t	Benzyl alcohol	0.810	1.033	1.018	0.760	0.877	0.923	0.939	0.928	0.942	0.915	9.68
14)	T	bis(2-chloroisopropyl)ether	1.912	1.712	1.716	1.420	1.466	1.526	1.529	1.455	1.464	1.578	10.49
15)	T	2-Methylphenol	1.055	0.859	0.929	0.910	0.873	0.949	0.966	0.952	0.943	0.937	6.10
16)	T	Hexachloroethane		0.598	0.530	0.448	0.483	0.495	0.497	0.488	0.498	0.505	8.69
17)	T	n-Nitrosodi-n-propylamine	0.927	0.903	0.880	0.779	0.791	0.827	0.838	0.810	0.829	0.843	5.97
18)	T	3-Methylphenol/4-Methylphenol	1.003	1.050	1.083	0.960	0.982	1.036	1.039	1.033	1.012	1.022	3.64
19)	S	Nitrobenzene-d5	1.145	1.121	1.128	1.042	1.046	1.085	1.156	1.102	1.089	1.102	3.66
20)	T	Nitrobenzene	1.108	1.235	1.055	0.947	1.007	1.078	1.133	1.116	1.080	1.084	7.46
21)	T	Isophorone	2.238	1.985	2.154	2.074	2.004	2.100	2.155	2.108	2.080	2.100	3.71
22)	T	2-Nitrophenol		0.476	0.508	0.428	0.441	0.491	0.530	0.548	0.543	0.495	9.12
23)	T	2,4-Dimethylphenol	1.024	0.896	0.974	0.908	0.930	1.005	1.023	0.987	1.001	0.972	5.03
24)	T	bis(2-Chloroethoxy)methane	1.209	1.287	1.356	1.242	1.183	1.293	1.305	1.238	1.208	1.258	4.45
25)	T	2,4-Dichlorophenol	1.272	1.095	1.116	1.032	1.051	1.148	1.157	1.134	1.129	1.126	6.15
26)	T	1,2,4-Trichlorobenzene	1.345	1.418	1.458	1.278	1.280	1.372	1.382	1.320	1.312	1.352	4.54
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------										
28)	T	Benzaldehyde	0.889	1.087	1.067	0.956	0.937	0.844	0.961	0.943	0.948	0.959	8.00
29)	T	Acetophenone	1.630	1.366	1.691	1.604	1.597	1.530	1.656	1.630	1.636	1.593	6.03
30)	T	m-Toluidine	1.225	1.367	1.445	1.485	1.440	1.432	1.620	1.561	1.534	1.457	7.94
31)	T	2-Chloroaniline	1.373	1.338	1.521	1.435	1.420	1.389	1.543	1.481	1.468	1.441	4.75
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------										
33)	T	1,4-Dioxane	0.532	0.405	0.484	0.430	0.424	0.413	0.412	0.418	0.440	0.440	9.49
34)	T	n-Decane	1.089	1.363	1.228	1.211	1.067	1.086	1.131	1.124	1.177	1.164	8.04
35)	I	IS1_Naphthalene-d8	----------ISTD----------										
36)	T	Naphthalene	1.016	1.098	1.062	0.880	0.923	0.907	0.971	0.902	0.919	0.964	8.06

Initial Calibration Summary
Form 6
Semivolatiles

Client	: **Alpha Geoscience**	**Lab Number**	: **L2430219**
Project Name	: **HUNTINGTON READY MIXED**	**Project Number**	: **20116**
Instrument ID	: **DAKOTA**	**Ical Ref**	: **ICAL21172**
Calibration dates	: **05/31/24 18:03 06/01/24 05:05**		

Calibration Files
L1 =ADPL1.D L2 =ADPL2.D L3 =ADPL3.D L4 =ADPL4.D L5 =ADPL5.D L6 =ADPL6.D L7 =ADPL7.D
L8 =ADPL8.D L9 =ADPL9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
37)	T	Benzoic Acid				0.049	0.112	0.150	0.203	0.216	0.237	*L	0.9958
38)	T	4-Chloroaniline		0.125	0.123	0.116	0.114	0.106	0.121	0.117	0.120	0.118	5.12
39)	T	Hexachlorobutadiene	0.208	0.241	0.253	0.211	0.220	0.219	0.235	0.223	0.240	0.228	6.69
40)	T	p-Chloro-m-cresol	0.255	0.255	0.266	0.244	0.251	0.249	0.276	0.267	0.284	0.261	5.11
41)	T	2-Methylnaphthalene	0.720	0.740	0.725	0.634	0.667	0.650	0.706	0.667	0.701	0.690	5.31
42)	T	1-Methylnaphthalene	0.275	0.216	0.256	0.222	0.225	0.217	0.222	0.216	0.222	0.230	9.03
43)	T	Hexachlorocyclopentadiene	0.229	0.237	0.250	0.231	0.230	0.226	0.255	0.244	0.267	0.241	5.81
44)	T	2,4,6-Trichlorophenol	0.248	0.293	0.255	0.247	0.259	0.257	0.287	0.269	0.287	0.267	6.69
45)	T	2,4,5-Trichlorophenol	0.331	0.290	0.280	0.261	0.275	0.281	0.305	0.292	0.297	0.290	6.92
46)	S	2-Fluorobiphenyl	1.050	1.041	0.974	0.895	0.876	0.840	0.905	0.840	0.856	0.920	8.94
47)	T	2-Chloronaphthalene	0.834	0.789	0.826	0.715	0.740	0.720	0.761	0.716	0.729	0.759	6.17
48)	T	2-Nitroaniline			0.164	0.158	0.169	0.169	0.193	0.197	0.201	0.179	9.86
49)	T	1,4-Dinitrobenzene		0.082	0.073	0.062	0.079	0.075	0.083	0.090	0.093	0.080	12.49
50)	T	1,3-Dinitrobenzene	0.061	0.097	0.078	0.077	0.089	0.088	0.102	0.105	0.105	0.089	16.95
51)	T	Dimethyl phthalate	0.952	0.966	0.956	0.823	0.893	0.849	0.918	0.850	0.853	0.896	6.05
52)	T	Acenaphthylene	1.337	1.237	1.161	1.073	1.107	1.049	1.118	1.048	1.045	1.130	8.83
53)	T	2,6-Dinitrotoluene		0.170	0.132	0.151	0.149	0.146	0.168	0.172	0.170	0.157	9.43
54)	T	1,2-Dinitrobenzene		0.057	0.046	0.048	0.054	0.053	0.059	0.063	0.061	0.055	10.80
55)	I	IS2_Naphthalene-d8	----------ISTD----------										
56)	T	a-Terpineol	0.264	0.243	0.243	0.236	0.243	0.233	0.252	0.254	0.260	0.248	4.30
57)	T	3-Chloroaniline	0.163	0.123	0.129	0.134	0.140	0.127	0.138	0.135	0.139	0.136	8.42
58)	T	2,6-Dichlorophenol	0.325	0.321	0.313	0.307	0.306	0.310	0.332	0.325	0.330	0.319	3.10
59)	T	1-chloro-2-nitrobenzene	0.099	0.138	0.118	0.120	0.110	0.115	0.128	0.126	0.132	0.121	9.88
60)	T	Caprolactam				0.111	0.119	0.124	0.138	0.140	0.143	0.129	10.23
61)	T	1,2,4,5-Tetrachlorobenzene	0.462	0.507	0.464	0.443	0.429	0.424	0.446	0.431	0.433	0.449	5.79
62)	T	Biphenyl	1.000	1.012	0.985	0.910	0.889	0.871	0.940	0.891	0.879	0.931	5.92
63)	I	IS1_Acenaphthene-d10	----------ISTD----------										
64)	T	3-Nitroaniline	0.173	0.215	0.228	0.230	0.237	0.237	0.270	0.273	0.264	0.236	13.31
65)	T	Acenaphthene	1.093	1.103	1.053	0.965	0.953	0.912	0.988	0.942	0.923	0.993	7.32
66)	T	2,4-Dinitrophenol				0.084	0.102	0.114	0.139	0.151	0.148	*L	0.9982
67)	T	Dibenzofuran	1.690	1.823	1.893	1.644	1.649	1.557	1.671	1.570	1.488	1.665	7.65
68)	T	2,4-Dinitrotoluene	0.240	0.279	0.280	0.270	0.299	0.302	0.342	0.348	0.330	0.299	11.95
69)	T	4-Nitrophenol	0.173	0.188	0.196	0.191	0.207	0.210	0.232	0.231	0.214	0.205	9.52
70)	T	2,3,5,6-Tetrachlorophenol			0.368	0.338	0.357	0.355	0.398	0.385	0.383	0.369	5.62
71)	T	2,3,4,6-Tetrachlorophenol			0.343	0.334	0.362	0.342	0.369	0.373	0.366	0.355	4.38
72)	T	Diethyl phthalate	1.422	1.602	1.519	1.314	1.306	1.259	1.336	1.262	1.235	1.362	9.32

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2430219**
Project Name	**: HUNTINGTON READY MIXED**	**Project Number**	**: 20116**
Instrument ID	**: DAKOTA**	**Ical Ref**	**: ICAL21172**
Calibration dates	**: 05/31/24 18:03 06/01/24 05:05**		

Calibration Files
L1 =ADPL1.D L2 =ADPL2.D L3 =ADPL3.D L4 =ADPL4.D L5 =ADPL5.D L6 =ADPL6.D L7 =ADPL7.D
L8 =ADPL8.D L9 =ADPL9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD	
73)	T	Fluorene	1.327	1.548	1.398	1.328	1.287	1.227	1.326	1.257	1.210	1.323	7.75	
74)	T	4-Chlorophenyl-phenylether	0.738	0.813	0.822	0.699	0.680	0.639	0.687	0.631	0.612	0.702	10.77	
75)	T	4-Nitroaniline	0.213	0.274	0.241	0.214	0.252	0.261	0.285	0.274	0.251	0.252	10.12	
76)	T	4,6-Dinitro-o-cresol				0.130	0.148	0.159	0.184	0.199	0.196		*L	0.9986
77)	T	NDPA/DPA	1.159	1.275	1.233	1.156	1.095	1.082	1.149	1.088	1.034	1.141	6.70	
78)	T	Azobenzene	1.280	1.254	1.232	1.160	1.107	1.052	1.132	1.050	1.009	1.142	8.52	
79)	S	2,4,6-Tribromophenol	0.152	0.162	0.179	0.193	0.189	0.187	0.207	0.206	0.205	0.187	10.38	
80)	T	4-Bromophenyl-phenylether	0.466	0.459	0.484	0.426	0.411	0.407	0.433	0.421	0.419	0.436	6.19	
81)	T	Hexachlorobenzene	0.532	0.564	0.535	0.506	0.492	0.450	0.493	0.477	0.472	0.502	7.17	
82)	T	Pentachlorophenol				0.258	0.286	0.290	0.326	0.338	0.340		*L	0.9994
83)	I	IS2_Acenaphthene-d10	----------ISTD----------											
84)	T	Dichloran				0.131	0.147	0.139	0.174	0.185	0.202		*L	0.9951
85)	T	Pentachloronitrobenzene		0.137	0.153	0.127	0.152	0.162	0.177	0.185	0.192	0.160	14.29	
86)	I	IS3_Acenaphthene-d10	----------ISTD----------											
87)	T	Atrazine	0.406	0.447	0.408	0.464	0.390	0.391	0.429	0.424	0.451	0.423	6.32	
88)	I	IS1_Phenanthrene-d10	----------ISTD----------											
89)	T	Phenanthrene	1.071	1.185	1.052	0.983	0.974	0.923	1.010	0.924	0.902	1.003	8.94	
90)	T	Anthracene	1.015	1.096	1.031	0.948	0.963	0.927	1.020	0.931	0.891	0.980	6.59	
91)	T	Carbazole	1.119	1.030	1.005	0.882	0.907	0.883	0.963	0.892	0.858	0.949	9.21	
92)	T	Di-n-butylphthalate	1.061	1.075	1.052	0.962	1.005	0.981	1.106	1.019	1.023	1.032	4.47	
93)	T	Fluoranthene	1.586	1.471	1.273	1.184	1.207	1.162	1.293	1.194	1.147	1.280	11.86	
94)	T	Benzidine	0.569	0.699	0.689	0.662	0.750	0.758	0.854	0.818	0.800	0.733	12.05	
95)	T	Pyrene	1.638	1.555	1.407	1.274	1.291	1.224	1.343	1.222	1.140	1.344	12.15	
96)	S	4-Terphenyl-d14	1.164	1.153	1.072	0.950	0.952	0.925	0.989	0.917	0.890	1.001	10.29	
97)	T	Butyl benzyl phthalate	0.539	0.486	0.418	0.392	0.431	0.443	0.517	0.509	0.520	0.473	11.15	
98)	I	IS2_Phenanthrene-d10	----------ISTD----------											
99)	T	Diphenamid	0.469	0.452	0.494	0.432	0.445	0.455	0.488	0.494	0.509	0.471	5.60	
100)	I	IS3_Phenanthrene-d10	----------ISTD----------											
101)	T	n-Octadecane	0.326	0.333	0.308	0.365	0.299	0.308	0.323	0.330	0.335	0.325	6.01	
102)	T	Parathion				0.074	0.088	0.064	0.074	0.079	0.095	0.109	*Q	0.9989
103)	T	3,3'-Dimethylbenzidine				0.557	0.760	0.694	0.733	0.806	0.886	0.899	*Q	0.9990
104)	I	IS1_Chrysene-d12	----------ISTD----------											
105)	T	Benzo[a]anthracene	1.767	1.644	1.409	1.292	1.270	1.184	1.325	1.269	1.243	1.378	14.34	
106)	T	3,3'-Dichlorobenzidine	0.459	0.447	0.447	0.431	0.452	0.451	0.521	0.521	0.528	0.473	8.16	
107)	T	Chrysene		1.591	1.438	1.246	1.217	1.130	1.251	1.126	1.105	1.263	13.47	
108)	T	bis(2-Ethylhexyl)phthalate	0.717	0.634	0.638	0.599	0.621	0.630	0.732	0.688	0.736	0.666	7.86	

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2430219**
Project Name	**: HUNTINGTON READY MIXED**	**Project Number**	**: 20116**
Instrument ID	**: DAKOTA**	**Ical Ref**	**: ICAL21172**
Calibration dates	**: 05/31/24 18:03 06/01/24 05:05**		

Calibration Files

L1 =ADPL1.D L2 =ADPL2.D L3 =ADPL3.D L4 =ADPL4.D L5 =ADPL5.D L6 =ADPL6.D L7 =ADPL7.D
L8 =ADPL8.D L9 =ADPL9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
109)	T	Di-n-octylphthalate	1.053	1.061	1.075	0.944	1.040	1.071	1.299	1.295	1.389	1.136	13.29
110)	T	Benzo(b)fluoranthene	1.729	1.651	1.449	1.275	1.268	1.254	1.390	1.362	1.384	1.418	11.88
111)	T	Benzo(k)fluoranthene	1.622	1.523	1.434	1.295	1.317	1.155	1.328	1.254	1.281	1.357	10.66
112)	T	Benzo(a)pyrene	1.401	1.444	1.262	1.142	1.165	1.137	1.271	1.243	1.296	1.262	8.58
113)	I	IS1_Perylene-d12	----------ISTD----------										
114)	T	Indeno(1,2,3-cd)pyrene	1.206	1.272	1.109	1.102	1.094	1.146	1.220	1.255	1.271	1.186	6.23
115)	T	Dibenzo[a,h]anthracene	1.119	1.126	1.206	1.018	1.048	1.009	1.137	1.081	1.055	1.089	5.86
116)	T	Benzo(g,h,i)perylene	1.118	1.215	1.140	1.036	1.034	0.998	1.099	1.060	1.081	1.087	6.04

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		Lab Number	: L2430219	
Project Name	: HUNTINGTON READY MIXED		Project Number	: 20116	
Instrument ID	: DAKOTA		Calibration Date	: 06/05/24 08:58	
Lab File ID	: ABN0605		Init. Calib. Date(s)	: 05/31/24	06/01/24
Sample No	: WG1929981-3		Init. Calib. Times	: 18:03	05:05
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	85	0
n-Nitrosodimethylamine	0.643	0.661	-	-2.8	20	90	0
Pyridine	1.051	1.024	-	2.6	20	83	0
2-Fluorophenol	1.003	0.977	-	2.6	20	87	0
Aniline	1.625	1.501	-	7.6	20	80	0
2-Chlorophenol	1.121	1.142	-	-1.9	20	85	0
Phenol-d6	1.244	1.271	-	-2.2	20	87	0
Phenol	1.393	1.426	-	-2.4	20	86	0
Bis(2-chloroethyl)ether	0.948	0.962	-	-1.5	20	85	0
1,3-Dichlorobenzene	1.422	1.453	-	-2.2	20	89	0
1,4-Dichlorobenzene	1.411	1.473	-	-4.4	20	91	0
1,2-Dichlorobenzene	1.364	1.399	-	-2.6	20	86	0
Benzyl alcohol	0.915	0.878	-	4	20	81	0
Bis(2-chloroisopropyl)ethe	1.578	1.615	-	-2.3	20	90	0
2-Methylphenol	0.937	0.954	-	-1.8	20	85	0
Hexachloroethane	0.505	0.496	-	1.8	20	85	0
n-Nitrosodi-n-propylamine	0.843	0.815	-	3.3	20	83	0
3-Methylphenol/4-Methylphe	1.022	1.004	-	1.8	20	82	0
Nitrobenzene-d5	1.102	1.008	-	8.5	20	79	0
Nitrobenzene	1.084	1.064	-	1.8	20	84	0
Isophorone	2.1	2.18	-	-3.8	20	88	0
2-Nitrophenol	0.495	0.442	-	10.7	20	76	0
2,4-Dimethylphenol	0.972	0.817	-	15.9	20	69	0
Bis(2-chloroethoxy)methane	1.258	1.275	-	-1.4	20	83	0
2,4-Dichlorophenol	1.126	1.106	-	1.8	20	82	0
1,2,4-Trichlorobenzene	1.352	1.446	-	-7	20	89	0
IS1_Naphthalene-d8	1	1	-	0	20	83	0
Naphthalene	0.964	0.956	-	0.8	20	87	0
Benzoic Acid	5	3.863	-	22.7*	20	72	0
4-Chloroaniline	0.118	0.116	-	1.7	20	90	0
Hexachlorobutadiene	0.228	0.226	-	0.9	20	85	0
p-Chloro-m-cresol	0.261	0.252	-	3.4	20	84	0
2-Methylnaphthalene	0.69	0.674	-	2.3	20	86	0
1-Methylnaphthalene	0.23	0.223	-	3	20	85	0
Hexachlorocyclopentadiene	0.241	0.19	-	21.2*	20	69	0
2,4,6-Trichlorophenol	0.267	0.243	-	9	20	78	0
2,4,5-Trichlorophenol	0.29	0.272	-	6.2	20	80	0
2-Fluorobiphenyl	0.92	0.912	-	0.9	20	90	0
2-Chloronaphthalene	0.759	0.759	-	0	20	87	0
2-Nitroaniline	0.179	0.143	-	20.1*	20	70	0
1,4-Dinitrobenzene	0.08	0.071	-	11.3	20	78	0
1,3-Dinitrobenzene	0.089	0.078	-	12.4	20	74	0
Dimethyl phthalate	0.896	0.861	-	3.9	20	84	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		Lab Number	: L2430219	
Project Name	: HUNTINGTON READY MIXED		Project Number	: 20116	
Instrument ID	: DAKOTA		Calibration Date	: 06/05/24 08:58	
Lab File ID	: ABN0605		Init. Calib. Date(s)	: 05/31/24	06/01/24
Sample No	: WG1929981-3		Init. Calib. Times	: 18:03	05:05
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.13	1.153	-	-2	20	91	0
2,6-Dinitrotoluene	0.157	0.136	-	13.4	20	77	0
1,2-Dinitrobenzene	0.055	0.049	-	10.9	20	76	0
IS1_Acenaphthene-d10	1	1	-	0	20	79	0
3-Nitroaniline	0.236	0.226	-	4.2	20	75	0
Acenaphthene	0.993	0.982	-	1.1	20	85	0
2,4-Dinitrophenol	5	4.622	-	7.6	20	83	0
Dibenzofuran	1.665	1.698	-	-2	20	86	0
2,4-Dinitrotoluene	0.299	0.285	-	4.7	20	75	0
4-Nitrophenol	0.205	0.2	-	2.4	20	75	0
2,3,5,6-Tetrachlorophenol	0.369	0.342	-	7.3	20	76	0
2,3,4,6-Tetrachlorophenol	0.355	0.359	-	-1.1	20	83	0
Diethyl phthalate	1.362	1.32	-	3.1	20	83	0
Fluorene	1.323	1.323	-	0	20	85	0
4-Chlorophenyl phenyl ethe	0.702	0.707	-	-0.7	20	88	0
4-Nitroaniline	0.252	0.248	-	1.6	20	75	0
4,6-Dinitro-o-cresol	5	4.293	-	14.1	20	75	0
NDPA/DPA	1.141	1.165	-	-2.1	20	85	0
Azobenzene	1.142	1.14	-	0.2	20	86	0
2,4,6-Tribromophenol	0.187	0.177	-	5.3	20	75	0
4-Bromophenyl phenyl ether	0.436	0.425	-	2.5	20	83	0
Hexachlorobenzene	0.502	0.485	-	3.4	20	86	0
Pentachlorophenol	5	4.255	-	14.9	20	73	0
IS1_Phenanthrene-d10	1	1	-	0	20	81	0
Phenanthrene	1.003	0.995	-	0.8	20	87	0
Anthracene	0.98	1.006	-	-2.7	20	88	0
Carbazole	0.949	0.933	-	1.7	20	85	0
Di-n-butylphthalate	1.032	0.971	-	5.9	20	80	0
Fluoranthene	1.28	1.246	-	2.7	20	87	0
Benzidine	0.733	0.782	-	-6.7	20	83	0
Pyrene	1.344	1.346	-	-0.1	20	89	0
4-Terphenyl-d14	1.001	0.987	-	1.4	20	86	0
Butyl benzyl phthalate	0.473	0.424	-	10.4	20	77	0
IS1_Chrysene-d12	1	1	-	0	20	80	0
Benzo(a)anthracene	1.378	1.314	-	4.6	20	88	0
3,3'-Dichlorobenzidine	0.473	0.486	-	-2.7	20	86	0
Chrysene	1.263	1.248	-	1.2	20	88	0
Bis(2-ethylhexyl)phthalate	0.666	0.621	-	6.8	20	78	0
Di-n-octylphthalate	1.136	1.05	-	7.6	20	78	0
Benzo(b)fluoranthene	1.418	1.363	-	3.9	20	86	0
Benzo(k)fluoranthene	1.357	1.333	-	1.8	20	92	0
Benzo(a)pyrene	1.262	1.259	-	0.2	20	88	0
IS1_Perylene-d12	1	1	-	0	20	81	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2430219	
Project Name	: HUNTINGTON READY MIXED		**Project Number**	: 20116	
Instrument ID	: DAKOTA		**Calibration Date**	: 06/05/24 08:58	
Lab File ID	: ABN0605		**Init. Calib. Date(s)**	: 05/31/24	06/01/24
Sample No	: WG1929981-3		**Init. Calib. Times**	: 18:03	05:05
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.186	1.18	-	0.5	20	83	0
Dibenzo(a,h)anthracene	1.089	1.108	-	-1.7	20	89	0
Benzo(ghi)perylene	1.087	1.086	-	0.1	20	88	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		Lab Number	: L2430219	
Project Name	: HUNTINGTON READY MIXED		Project Number	: 20116	
Instrument ID	: DAKOTA		Calibration Date	: 06/06/24 13:04	
Lab File ID	: ABN0606		Init. Calib. Date(s)	: 05/31/24	06/01/24
Sample No	: WG1930740-3		Init. Calib. Times	: 18:03	05:05
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	94	0
n-Nitrosodimethylamine	0.643	0.658	-	-2.3	20	100	0
Pyridine	1.051	0.977	-	7	20	88	0
2-Fluorophenol	1.003	0.973	-	3	20	96	0
Aniline	1.625	1.512	-	7	20	89	0
2-Chlorophenol	1.121	1.137	-	-1.4	20	94	0
Phenol-d6	1.244	1.288	-	-3.5	20	98	0
Phenol	1.393	1.434	-	-2.9	20	96	0
Bis(2-chloroethyl)ether	0.948	0.949	-	-0.1	20	93	0
1,3-Dichlorobenzene	1.422	1.468	-	-3.2	20	100	0
1,4-Dichlorobenzene	1.411	1.475	-	-4.5	20	101	0
1,2-Dichlorobenzene	1.364	1.421	-	-4.2	20	97	0
Benzyl alcohol	0.915	0.919	-	-0.4	20	93	0
Bis(2-chloroisopropyl)ethe	1.578	1.636	-	-3.7	20	101	0
2-Methylphenol	0.937	0.955	-	-1.9	20	94	0
Hexachloroethane	0.505	0.509	-	-0.8	20	97	0
n-Nitrosodi-n-propylamine	0.843	0.821	-	2.6	20	93	0
3-Methylphenol/4-Methylphe	1.022	1.027	-	-0.5	20	93	0
Nitrobenzene-d5	1.102	1.209	-	-9.7	20	105	0
Nitrobenzene	1.084	1.195	-	-10.2	20	104	0
Isophorone	2.1	2.245	-	-6.9	20	100	0
2-Nitrophenol	0.495	0.553	-	-11.7	20	106	0
2,4-Dimethylphenol	0.972	0.861	-	11.4	20	80	0
Bis(2-chloroethoxy)methane	1.258	1.347	-	-7.1	20	98	0
2,4-Dichlorophenol	1.126	1.162	-	-3.2	20	95	0
1,2,4-Trichlorobenzene	1.352	1.473	-	-8.9	20	101	0
IS1_Naphthalene-d8	1	1	-	0	20	95	0
Naphthalene	0.964	0.944	-	2.1	20	99	0
Benzoic Acid	5	5.067	-	-1.3	20	119	0
4-Chloroaniline	0.118	0.113	-	4.2	20	101	0
Hexachlorobutadiene	0.228	0.233	-	-2.2	20	101	0
p-Chloro-m-cresol	0.261	0.26	-	0.4	20	99	0
2-Methylnaphthalene	0.69	0.681	-	1.3	20	99	0
1-Methylnaphthalene	0.23	0.231	-	-0.4	20	101	0
Hexachlorocyclopentadiene	0.241	0.216	-	10.4	20	90	0
2,4,6-Trichlorophenol	0.267	0.285	-	-6.7	20	105	0
2,4,5-Trichlorophenol	0.29	0.308	-	-6.2	20	104	0
2-Fluorobiphenyl	0.92	0.916	-	0.4	20	103	0
2-Chloronaphthalene	0.759	0.784	-	-3.3	20	103	0
2-Nitroaniline	0.179	0.2	-	-11.7	20	112	0
1,4-Dinitrobenzene	0.08	0.105	-	-31.2*	20	132	0
1,3-Dinitrobenzene	0.089	0.118	-	-32.6*	20	127	0
Dimethyl phthalate	0.896	0.978	-	-9.2	20	109	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		Lab Number	: L2430219	
Project Name	: HUNTINGTON READY MIXED		Project Number	: 20116	
Instrument ID	: DAKOTA		Calibration Date	: 06/06/24 13:04	
Lab File ID	: ABN0606		Init. Calib. Date(s)	: 05/31/24	06/01/24
Sample No	: WG1930740-3		Init. Calib. Times	: 18:03	05:05
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.13	1.218	-	-7.8	20	110	0
2,6-Dinitrotoluene	0.157	0.191	-	-21.7*	20	124	0
1,2-Dinitrobenzene	0.055	0.074	-	-34.5*	20	132	0
IS1_Acenaphthene-d10	1	1	-	0	20	95	0
3-Nitroaniline	0.236	0.281	-	-19.1	20	112	0
Acenaphthene	0.993	0.988	-	0.5	20	103	0
2,4-Dinitrophenol	5	6.45	-	-29*	20	145	0
Dibenzofuran	1.665	1.747	-	-4.9	20	107	0
2,4-Dinitrotoluene	0.299	0.396	-	-32.4*	20	124	0
4-Nitrophenol	0.205	0.229	-	-11.7	20	103	0
2,3,5,6-Tetrachlorophenol	0.369	0.409	-	-10.8	20	109	0
2,3,4,6-Tetrachlorophenol	0.355	0.404	-	-13.8	20	112	0
Diethyl phthalate	1.362	1.394	-	-2.3	20	105	0
Fluorene	1.323	1.373	-	-3.8	20	106	0
4-Chlorophenyl phenyl ethe	0.702	0.715	-	-1.9	20	106	0
4-Nitroaniline	0.252	0.3	-	-19	20	109	0
4,6-Dinitro-o-cresol	5	6.668	-	-33.4*	20	146	0
NDPA/DPA	1.141	1.199	-	-5.1	20	105	0
Azobenzene	1.142	1.208	-	-5.8	20	109	0
2,4,6-Tribromophenol	0.187	0.22	-	-17.6	20	112	0
4-Bromophenyl phenyl ether	0.436	0.453	-	-3.9	20	106	0
Hexachlorobenzene	0.502	0.522	-	-4	20	110	0
Pentachlorophenol	5	5.462	-	-9.2	20	114	0
IS1_Phenanthrene-d10	1	1	-	0	20	102	0
Phenanthrene	1.003	0.985	-	1.8	20	108	0
Anthracene	0.98	0.983	-	-0.3	20	108	0
Carbazole	0.949	0.929	-	2.1	20	107	0
Di-n-butylphthalate	1.032	1.034	-	-0.2	20	107	0
Fluoranthene	1.28	1.231	-	3.8	20	108	0
Benzidine	0.733	0.765	-	-4.4	20	103	0
Pyrene	1.344	1.33	-	1	20	110	0
4-Terphenyl-d14	1.001	0.998	-	0.3	20	110	0
Butyl benzyl phthalate	0.473	0.463	-	2.1	20	106	0
IS1_Chrysene-d12	1	1	-	0	20	99	0
Benzo(a)anthracene	1.378	1.308	-	5.1	20	110	0
3,3'-Dichlorobenzidine	0.473	0.494	-	-4.4	20	109	0
Chrysene	1.263	1.224	-	3.1	20	108	0
Bis(2-ethylhexyl)phthalate	0.666	0.682	-	-2.4	20	108	0
Di-n-octylphthalate	1.136	1.168	-	-2.8	20	108	0
Benzo(b)fluoranthene	1.418	1.332	-	6.1	20	106	0
Benzo(k)fluoranthene	1.357	1.32	-	2.7	20	113	0
Benzo(a)pyrene	1.262	1.24	-	1.7	20	108	0
IS1_Perylene-d12	1	1	-	0	20	97	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2430219	
Project Name	: HUNTINGTON READY MIXED		**Project Number**	: 20116	
Instrument ID	: DAKOTA		**Calibration Date**	: 06/06/24 13:04	
Lab File ID	: ABN0606		**Init. Calib. Date(s)**	: 05/31/24	06/01/24
Sample No	: WG1930740-3		**Init. Calib. Times**	: 18:03	05:05
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.186	1.06	-	10.6	20	90	0
Dibenzo(a,h)anthracene	1.089	0.986	-	9.5	20	95	0
Benzo(ghi)perylene	1.087	0.977	-	10.1	20	95	0

*** Value outside of QC limits.**

SVOC SIM Data Section

ALPHA GEOSCIENCE

Geology
Hydrology
Remediation
Water Supply

QA/QC Review of Method 8270D SIM Semi-Volatiles
Data for Alpha Analytical, SDG Number: L2430219

8 Ground Water Samples, 1 Field Duplicate,
and 1 Field Blank
Collected May 30, 2024

Prepared by: Donald Anné
June 28, 2024

Holding Times: Samples were extracted and analyzed within USEPA SW-846 holding times.

GC/MS Tuning and Mass Calibration: The DFTPP tuning criteria were within control limits.

Initial Calibration: The average RRFs for target compounds were above the allowable minimum (0.010) and the %RSDs were below the allowable maximum (30%), as required.

Continuing Calibration: The RRFs for target compounds were above the allowable minimum (0.010) and the %Ds were below the allowable maximum (20%), as required.

Blanks: Method blank WG1929068-1BLANK contained traces of naphthalene (0.07 ug/L), fluorene (0.02 ug/L), phenanthrene (0.03 ug/L), and 2-methylnaphthalene (0.02 ug/L). Field blank FB contained traces of 2-chloronaphthalene (0.02 ug/L), anthracene (0.02 ug/L), and hexachlorobenzene (0.01 ug/L). Positive results for these compounds that are less than 5 times the highest blank level should be reported as not detected (U) in associated samples.

Internal Standard Area Summary: The internal standard areas and retention times were within control limits.

Surrogate Recovery: One of three acid extractable surrogate recoveries for samples MW-1S, MW-6D, and DUP was above control limits. No action is taken on one surrogate recovery per fraction outside control limits, provided no recovery is less than 10%.

Matrix Spike/Matrix Spike Duplicate: The relative percent differences for target compounds were below the allowable maximum and the percent recoveries were within QC limits for aqueous MS/MSD sample MW-4D.

679 Plank Road ● Clifton Park, New York 12065 ● (518) 348-6995 ● Fax (518) 348-6966
www.alphageoscience.com

Laboratory Control Sample: The relative percent differences for target compounds were below the allowable maximum and the percent recoveries were within QC limits for aqueous samples WG1929068-2/3.

Field Duplicates: The relative percent difference for naphthalene was above the allowable maximum (20%) for aqueous field duplicate pair MW-8S/DUP (attached table). Positive results for naphthalene should be considered estimated (J) in samples MW-8S and DUP.

Compound ID: Checked compounds and surrogates were within GC/MS quantitation limits.

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Alpha Geoscience
Project Name: HUNTINGTON READY MIXED

Lab Number: L2430219
Project Number: 20116
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
MW-1S (L2430219-01)	74	64	105	84	135*	71	1
MW-2S (L2430219-02)	57	50	81	68	115	67	0
MW-3S (L2430219-03)	68	58	96	76	119	65	0
MW-4D (L2430219-04)	67	57	96	75	111	65	0
MW-5S (L2430219-05)	68	58	93	72	114	64	0
MW-6D (L2430219-06)	70	59	97	77	129*	68	1
MW-7S (L2430219-07)	69	59	96	74	120	62	0
MW-8S (L2430219-08)	67	57	90	71	110	59	0
DUP (L2430219-09)	69	59	95	75	122*	66	1
FB (L2430219-10)	66	55	89	69	103	60	0
WG1929068-1BLANK	65	55	94	74	114	68	0
WG1929068-2LCS	68	60	88	69	118	62	0
WG1929068-3LCSD	73	65	96	74	126*	65	1
MW-4DMS	80	72	103	81	137*	71	1
MW-4DMSD	69	62	89	69	115	60	0

QC LIMITS

(21-120)	2FP = 2-FLUOROPHENOL
(10-120)	PHL = PHENOL-D6
(23-120)	NBZ = NITROBENZENE-D5
(15-120)	FBP = 2-FLUOROBIPHENYL
(10-120)	TBP = 2,4,6-TRIBROMOPHENOL
(41-149)	TPH = 4-TERPHENYL-D14

*** Values outside of QC limits**

FORM II NYTCL-8270-SIM-LVI

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Lab ID	: WG1929068-1	Date Collected	: NA
Client ID	: WG1929068-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 06/04/24 10:30
Sample Matrix	: WATER	Date Extracted	: 06/03/24
Analytical Method	: 1,8270E-SIM	Dilution Factor	: 1
Lab File ID	: 929068-1	Analyst	: RP
Sample Amount	: 275 ml	Instrument ID	: SV119
Extraction Method	: EPA 3510C	GC Column	: RXI-5SilM
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	0.07	0.10	0.05	J
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	0.02	0.10	0.01	J
85-01-8	Phenanthrene	0.03	0.10	0.02	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	0.02	0.10	0.02	J
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Pesticide Data Section

ALPHA GEOSCIENCE

Geology
Hydrology
Remediation
Water Supply

QA/QC Review of Method 8081B Pesticide
Data for Alpha Analytical Labs
SDG Number: L2430219

8 Ground Water Samples, 1 Field Duplicate,
and 1 Field Blank
Collected May 30, 2024

Prepared by: Donald Anné
June 28, 2024

Holding Times: The samples were extracted and analyzed within USEPA SW-846 holding times.

Blanks: The analyses of the method and field blanks reported target pesticides as not detected.

Surrogate Recovery: The surrogate recoveries were within QC limits on both columns for the ground water samples and equipment blank.

Matrix Spike/Matrix Spike Duplicate: The relative percent differences for target pesticides were below the allowable maximum and the percent recoveries were within QC limits for aqueous MS/MSD sample MW-4D.

Laboratory Control Sample: The percent recoveries for target pesticides were within QC limits, but relative percent difference for endrin ketone was above the allowable maximum for aqueous samples WG1929733-2/3. Positive results for endrin ketone should be considered estimated (J) in associated aqueous samples.

Field Duplicates: The analyses of aqueous field duplicate pair MW-8S/DUP reported target pesticides as not detected; therefore, valid relative percent differences could not be calculated. The analyses for the field duplicate pair were acceptable.

Initial Calibration: The %RSDs were below the allowable maximum (20%) or the correlation coefficients were above the allowable minimum (0.995) for applicable pesticides on both columns, as required.

Continuing Calibration: The %Ds for target pesticides were below the allowable maximum (20%) on both columns, as required.

DDT/Endrin Breakdown Check: The percent breakdowns were below the allowable maximum (20%) for 4,4'-DDT and endrin, as required.

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Pesticide Identification Summary for Single Component Analytes: Checked surrogate results were within quantitation limits. The analyses of ground water samples reported target single component pesticides as not detected.

Pesticide Identification Summary for Multi-Component Analytes: The analyses of ground water samples reported target multi-component pesticides as not detected.

Laboratory Control Sample Summary
Form 3
Pesticides

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1929733-2	Analysis Date : 06/05/24 22:27	File ID : 20240605b-17
LCSD Sample ID	: WG1929733-3	Analysis Date : 06/05/24 22:40	File ID : 20240605b-18

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Delta-BHC	0.357	0.285	80	0.357	0.272	76	5	30-150	20
Lindane	0.357	0.248	69	0.357	0.246	69	1	30-150	20
Alpha-BHC	0.357	0.257	72	0.357	0.259	73	1	30-150	20
Beta-BHC	0.357	0.298	83	0.357	0.294	82	1	30-150	20
Heptachlor	0.357	0.235	66	0.357	0.232	65	1	30-150	20
Aldrin	0.357	0.232	65	0.357	0.230	64	1	30-150	20
Heptachlor epoxide	0.357	0.229	64	0.357	0.232	65	1	30-150	20
Endrin	0.357	0.242	68	0.357	0.246	69	2	30-150	20
Endrin aldehyde	0.357	0.244	68	0.357	0.219	61	11	30-150	20
Endrin ketone	0.357	0.221	62	0.357	0.311	87	34 Q	30-150	20
Dieldrin	0.357	0.255	71	0.357	0.261	73	2	30-150	20
4,4'-DDE	0.357	0.240	67	0.357	0.249	70	4	30-150	20
4,4'-DDD	0.357	0.275	77	0.357	0.302	85	9	30-150	20
4,4'-DDT	0.357	0.265	74	0.357	0.274	77	3	30-150	20
Endosulfan I	0.357	0.226	63	0.357	0.230	64	2	30-150	20
Endosulfan II	0.357	0.218	61	0.357	0.254	71	15	30-150	20
Endosulfan sulfate	0.357	0.326	91	0.357	0.285	80	13	30-150	20
Methoxychlor	0.357	0.295	83	0.357	0.314	88	6	30-150	20
cis-Chlordane	0.357	0.209	59	0.357	0.224	63	7	30-150	20
trans-Chlordane	0.357	0.274	77	0.357	0.269	75	2	30-150	20

PCB Data Section

ALPHA GEOSCIENCE

Geology
Hydrology
Remediation
Water Supply

QA/QC Review of Method 8082A PCB
Data for Alpha Analytical Labs
SDG Number: L2430219

8 Ground Water Samples, 1 Field Duplicate,
and 1 Field Blank
Collected May 30, 2024

Prepared by: Donald Anné
June 28, 2024

Holding Times: The samples were extracted and analyzed within USEPA SW-846 holding times.

Blanks: The analysis of the method blank reported target aroclors as not detected.

Field blank FB contained aroclor 1254 (0.080 ug/L), aroclor 1260 (0.111 ug/L), and total PCBs (0.251 ug/L) were above the RLs. Positive results for aroclor 1254, aroclor 1260, and total PCBs that are less than 5 times the blank level should be reported as rejected, unusable (R) in associated samples.

Surrogate Recovery: The surrogate recoveries were within QC limits on both columns for the ground water samples and equipment blank.

Matrix Spike/Matrix Spike Duplicate: The relative percent differences for aroclor 1016 and aroclor 1260 were below the allowable maximum and the percent recoveries were within QC limits for aqueous MS/MSD sample MW-4D.

Laboratory Control Sample: The relative percent differences for aroclor 1016 and aroclor 1260 were below the allowable maximums and percent recoveries were within QC limits for aqueous samples WG1930604-2/3.

Field Duplicates: The relative percent differences for aroclor 1254 and aroclor 1260 were below the allowable maximum (20%) for aqueous field duplicate pair MW-8S/DUP (attached table), as required.

Initial Calibration: The average %RSDs for aroclor 1016 and aroclor 1260 were below the allowable maximum (20%) on both columns, as required.

Continuing Calibration: The average %Ds for aroclor 1221 were above the allowable maximum (20%) for both columns on 06-0724 (P2240607a-03). Positive results for aroclor 1221 should be considered estimated (J) in associated samples.

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PCB Identification Summary: Checked aroclor and surrogate results were within quantitation limits. The RPDs for dual column quantitation of aroclor 1260 for samples MW-2S, MW-4D, MW-5S, MW-7S, MW-8S, and DUP were above the allowable maximum (25%), but not above 70% and the higher results were reported. Positive results for aroclor 1260 should be considered estimated, biased high (J+) in the samples.

The RPDs for dual column quantitation of aroclor 1254 for samples MW-5S and MW-6D were above the allowable maximum (25%), but not above 70% and the higher results were reported. Positive results for aroclor 1254 should be considered estimated, biased high (J+) in the samples.

The RPDs for dual column quantitation of aroclor 1260 for samples MW-6D and FB were above the allowable maximum (25%), but not above 70% and the lower results were reported. Positive results for aroclor 1260 should be considered estimated, biased low (J-) in the samples.

Calibration Verification Summary
Form 7
PCBs

Client	: Alpha Geoscience		Lab Number	: L2430219	
Project Name	: HUNTINGTON READY MIXED		Project Number	: 20116	
Instrument ID	: PEST2		Calibration Date	: 06/07/24 07:03	
Lab File ID	: P2240607a-03		Init. Calib. Date(s)	: 05/06/24	05/07/24
Sample No	: WG1931015-2		Init. Calib. Times	: 20:49	15:31
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb	1	1	-	0	20	118	0
2,4,5,6-Tetrachloro-m-xylen	1.311	1.191	-	9.2	20	85	0
Decachlorobiphenyl	0.847	0.819	-	3.3	20	94	.04
2154_1br2nb	1	1	-	0	20	129	0
1221-2	0.015	0.012	-	20	20	104	0
1221-3	0.00895	0.00722	-	19.3	20	104	.01
1221-4	0.035	0.026	-	25.7*	20	98	.01
1254-1	0.05	0.041	-	18	20	105	.04
1254-2	0.09	0.075	-	16.7	20	109	.04
1254-3	0.095	0.081	-	14.7	20	110	.04
1254-4	0.067	0.055	-	17.9	20	107	.04
1254-5	0.091	0.073	-	19.8	20	104	.04
4268_1br2nb	1	1	-	0	20	131	0
1248_1br2nb	1	1	-	0	20	124	0
3262_1br2nb	1	1	-	0	20	130	0

Ave %D aroclor 1221 =21.7%

* Value outside of QC limits.

Calibration Verification Summary
Form 7
PCBs

Client	: Alpha Geoscience		Lab Number	: L2430219	
Project Name	: HUNTINGTON READY MIXED		Project Number	: 20116	
Instrument ID	: PEST2		Calibration Date	: 06/07/24 07:03	
Lab File ID	: P2240607a-03		Init. Calib. Date(s)	: 05/06/24	05/07/24
Sample No	: WG1931015-2		Init. Calib. Times	: 20:49	15:31
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb	1	1	-	0	20	114	0
2,4,5,6-Tetrachloro-m-xyl	1.232	1.115	-	9.5	20	83	0
Decachlorobiphenyl	0.58	0.658	-	-13.4	20	109	.04
2154_1br2nb	1	1	-	0	20	129	0
1221-2	0.015	0.012	-	20	20	98	0
1221-3	0.00933	0.00717	-	23.2*	20	99	0
1221-4	0.034	0.027	-	20.6*	20	102	0
1254-1	0.046	0.04	-	13	20	112	.03
1254-2	0.052	0.044	-	15.4	20	108	.03
1254-3	0.078	0.07	-	10.3	20	116	.03
1254-4	0.048	0.044	-	8.3	20	119	.03
1254-5	0.071	0.059	-	16.9	20	107	.03
4268_1br2nb	1	1	-	0	20	127	0
1248_1br2nb	1	1	-	0	20	122	0
3262_1br2nb	1	1	-	0	20	130	0

Ave %D aroclor 1221 =21.3%

* Value outside of QC limits.

Identification Summary
Form 10
PCBs

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab Sample ID	:	L2430219-02			
Client ID	:	MW-2S			
Date Analyzed (1)	:	06/07/24 08:43	Date Analyzed (2)	:	06/07/24 08:43
Instrument ID (1)	:	PEST2	Instrument ID (2)	:	PEST2
GC Column (1)	:	CLP-Pesticide	GC Column (2)	:	CLP-PesticideII

			RT Window			Mean	
Analyte	Peak	RT	From	To	Concentration	Concentration	%RPD
AROCLOR 1254	1	2.30	2.30	2.40	8.71		
	2	2.41	2.41	2.51	7.32		
COLUMN 1	3	2.60	2.60	2.70	6.92		
	4	2.73	2.73	2.83	9.07		
	5	0.00	2.95	3.05	0.	0.0572	
	1	2.64	2.63	2.73	6.9		
	2	2.73	2.72	2.82	11.2		
COLUMN 2	3	0.00	2.94	3.04	0.		
	4	3.07	3.05	3.15	11.5		
	5	0.00	3.33	3.43	0.	0.0705J	NC
AROCLOR 1260	1	2.68	2.63	2.73	16.3		
	2	2.81	2.76	2.86	19.1		
COLUMN 1	3	3.13	3.08	3.18	8.94		
	4	3.28	3.23	3.33	14.1		
	5	3.43	3.38	3.48	16.3	0.107	
	1	3.05	3.00	3.10	19.2		
	2	3.15	3.10	3.20	23.9		
COLUMN 2	3	3.55	3.50	3.60	17.3		
	4	3.68	3.63	3.73	19.3		
	5	3.88	3.83	3.93	20.8	0.144	30

Identification Summary
Form 10
PCBs

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab Sample ID	:	L2430219-04			
Client ID	:	MW-4D			
Date Analyzed (1)	:	06/07/24 09:00	Date Analyzed (2)	:	06/07/24 09:00
Instrument ID (1)	:	PEST2	Instrument ID (2)	:	PEST2
GC Column (1)	:	CLP-Pesticide	GC Column (2)	:	CLP-PesticideII

			RT Window			Mean	
Analyte	Peak	RT	From	To	Concentration	Concentration	%RPD
AROCLOR 1254	1	2.30	2.30	2.40	9.91		
	2	2.41	2.41	2.51	9.48		
COLUMN 1	3	2.60	2.60	2.70	7.62		
	4	2.73	2.73	2.83	9.81		
	5	0.00	2.95	3.05	0.	0.0658J	
	1	2.64	2.63	2.73	8.95		
	2	2.73	2.72	2.82	12.4		
COLUMN 2	3	2.96	2.94	3.04	10.2		
	4	3.07	3.05	3.15	10.9		
	5	0.00	3.33	3.43	0.	0.0758	14
AROCLOR 1260	1	2.68	2.63	2.73	16.5		
	2	2.81	2.76	2.86	19.8		
COLUMN 1	3	3.13	3.08	3.18	9.77		
	4	3.28	3.23	3.33	14.4		
	5	3.43	3.38	3.48	17.2	0.111	
	1	3.05	3.00	3.10	22.3		
	2	3.16	3.10	3.20	25.7		
COLUMN 2	3	3.55	3.50	3.60	18.5		
	4	3.68	3.63	3.73	20.6		
	5	3.88	3.83	3.93	22.6	0.157	34

Identification Summary
Form 10
PCBs

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab Sample ID	:	L2430219-05			
Client ID	:	MW-5S			
Date Analyzed (1)	:	06/07/24 09:26	Date Analyzed (2)	:	06/07/24 09:26
Instrument ID (1)	:	PEST2	Instrument ID (2)	:	PEST2
GC Column (1)	:	CLP-Pesticide	GC Column (2)	:	CLP-PesticideII

Analyte	Peak	RT	RT Window From	RT Window To	Concentration	Mean Concentration	%RPD
AROCLOR 1254	1	2.30	2.30	2.40	7.24		
	2	2.41	2.41	2.51	7.53		
COLUMN 1	3	2.60	2.60	2.70	5.94		
	4	2.73	2.73	2.83	7.8		
	5	0.00	2.95	3.05	0.	0.0509	
	1	2.64	2.63	2.73	8.27		
	2	2.73	2.72	2.82	11.8		
COLUMN 2	3	2.96	2.94	3.04	9.37		
	4	3.07	3.05	3.15	9.02		
	5	0.00	3.33	3.43	0.	0.0687J	30
AROCLOR 1260	1	2.68	2.63	2.73	13.2		
	2	2.81	2.76	2.86	15.4		
COLUMN 1	3	3.13	3.08	3.18	8.65		
	4	3.28	3.23	3.33	11.5		
	5	3.43	3.38	3.48	13.6	0.0892	
	1	3.05	3.00	3.10	17.9		
	2	0.00	3.10	3.20	0.		
COLUMN 2	3	3.55	3.50	3.60	17.		
	4	3.68	3.63	3.73	18.4		
	5	3.88	3.83	3.93	19.7	0.13	37

Identification Summary
Form 10
PCBs

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab Sample ID	:	L2430219-06			
Client ID	:	MW-6D			
Date Analyzed (1)	:	06/07/24 09:35	Date Analyzed (2)	:	06/07/24 09:35
Instrument ID (1)	:	PEST2	Instrument ID (2)	:	PEST2
GC Column (1)	:	CLP-Pesticide	GC Column (2)	:	CLP-PesticideII

			RT Window			Mean	
Analyte	Peak	RT	From	To	Concentration	Concentration	%RPD
AROCLOR 1254	1	2.30	2.30	2.40	8.97		
	2	2.42	2.41	2.51	9.04		
COLUMN 1	3	2.60	2.60	2.70	6.29		
	4	2.73	2.73	2.83	8.27		
	5	0.00	2.95	3.05	0.	0.0582	
	1	2.64	2.63	2.73	13.2		
	2	2.73	2.72	2.82	12.8		
COLUMN 2	3	2.96	2.94	3.04	10.7		
	4	3.07	3.05	3.15	11.5		
	5	0.00	3.33	3.43	0.	0.0861	39
AROCLOR 1260	1	2.68	2.63	2.73	15.7		
	2	2.81	2.76	2.86	18.7		
COLUMN 1	3	3.13	3.08	3.18	9.45		
	4	3.28	3.23	3.33	13.7		
	5	3.43	3.38	3.48	16.	0.105	
	1	3.05	3.00	3.10	21.3		
	2	3.16	3.10	3.20	26.		
COLUMN 2	3	3.55	3.50	3.60	18.7		
	4	3.68	3.63	3.73	21.9		
	5	3.88	3.83	3.93	23.1	0.159	41

Identification Summary
Form 10
PCBs

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab Sample ID	:	L2430219-07			
Client ID	:	MW-7S			
Date Analyzed (1)	:	06/07/24 09:43	Date Analyzed (2)	:	06/07/24 09:43
Instrument ID (1)	:	PEST2	Instrument ID (2)	:	PEST2
GC Column (1)	:	CLP-Pesticide	GC Column (2)	:	CLP-PesticideII

			RT Window			Mean	
Analyte	Peak	RT	From	To	Concentration	Concentration	%RPD
AROCLOR 1254	1	2.30	2.30	2.40	9.13		
	2	2.41	2.41	2.51	8.23		
COLUMN 1	3	2.60	2.60	2.70	5.98		
	4	2.73	2.73	2.83	7.97		
	5	0.00	2.95	3.05	0.	0.0559	
	1	0.00	2.63	2.73	0.		
	2	2.73	2.72	2.82	10.4		
COLUMN 2	3	2.96	2.94	3.04	8.96		
	4	3.07	3.05	3.15	9.61		
	5	0.00	3.33	3.43	0.	0.069J	21
AROCLOR 1260	1	2.68	2.63	2.73	14.2		
	2	2.81	2.76	2.86	17.6		
COLUMN 1	3	3.13	3.08	3.18	8.53		
	4	3.28	3.23	3.33	12.2		
	5	3.43	3.38	3.48	14.7	0.096	
	1	3.06	3.00	3.10	18.3		
	2	3.16	3.10	3.20	23.6		
COLUMN 2	3	3.55	3.50	3.60	17.5		
	4	3.68	3.63	3.73	20.1		
	5	3.88	3.83	3.93	20.8	0.143	39

Identification Summary
Form 10
PCBs

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab Sample ID	:	L2430219-08			
Client ID	:	MW-8S			
Date Analyzed (1)	:	06/07/24 09:52	Date Analyzed (2)	:	06/07/24 09:52
Instrument ID (1)	:	PEST2	Instrument ID (2)	:	PEST2
GC Column (1)	:	CLP-Pesticide	GC Column (2)	:	CLP-PesticideII

			RT Window			Mean	
Analyte	Peak	RT	From	To	Concentration	Concentration	%RPD
AROCLOR 1254	1	2.30	2.30	2.40	9.19		
	2	2.41	2.41	2.51	8.9		
COLUMN 1	3	2.60	2.60	2.70	6.44		
	4	2.73	2.73	2.83	9.48		
	5	0.00	2.95	3.05	0.	0.0607	
	1	2.64	2.63	2.73	9.11		
	2	2.73	2.72	2.82	10.1		
COLUMN 2	3	2.96	2.94	3.04	9.24		
	4	3.07	3.05	3.15	10.4		
	5	0.00	3.33	3.43	0.	0.0694J	19
AROCLOR 1260	1	2.68	2.63	2.73	14.2		
	2	2.81	2.76	2.86	16.5		
COLUMN 1	3	3.13	3.08	3.18	8.35		
	4	3.28	3.23	3.33	12.2		
	5	3.43	3.38	3.48	14.7	0.0942	
	1	3.06	3.00	3.10	18.2		
	2	3.16	3.10	3.20	21.4		
COLUMN 2	3	3.55	3.50	3.60	16.8		
	4	3.68	3.63	3.73	18.1		
	5	3.88	3.83	3.93	19.6	0.134	35

Identification Summary
Form 10
PCBs

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab Sample ID	:	L2430219-09			
Client ID	:	DUP			
Date Analyzed (1)	:	06/07/24 10:01	Date Analyzed (2)	:	06/07/24 10:01
Instrument ID (1)	:	PEST2	Instrument ID (2)	:	PEST2
GC Column (1)	:	CLP-Pesticide	GC Column (2)	:	CLP-PesticideII

Analyte	Peak	RT	RT Window From	RT Window To	Concentration	Mean Concentration	%RPD
AROCLOR 1254	1	2.30	2.30	2.40	11.7		
	2	2.41	2.41	2.51	9.77		
COLUMN 1	3	2.60	2.60	2.70	8.24		
	4	2.73	2.73	2.83	11.7		
	5	0.00	2.95	3.05	0.	0.074	
	1	0.00	2.63	2.73	0.		
	2	2.73	2.72	2.82	11.		
COLUMN 2	3	2.96	2.94	3.04	10.2		
	4	3.07	3.05	3.15	11.8		
	5	0.00	3.33	3.43	0.	0.0784	6
AROCLOR 1260	1	2.68	2.63	2.73	16.7		
	2	2.81	2.76	2.86	19.7		
COLUMN 1	3	3.13	3.08	3.18	11.2		
	4	3.28	3.23	3.33	14.7		
	5	3.43	3.38	3.48	20.3	0.118	
	1	3.06	3.00	3.10	21.6		
	2	3.16	3.10	3.20	25.5		
COLUMN 2	3	3.55	3.50	3.60	19.1		
	4	3.68	3.63	3.73	22.4		
	5	3.88	3.83	3.93	23.6	0.16	30

Identification Summary
Form 10
PCBs

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Lab Sample ID	:	L2430219-10			
Client ID	:	FB			
Date Analyzed (1)	:	06/07/24 10:10	Date Analyzed (2)	:	06/07/24 10:10
Instrument ID (1)	:	PEST2	Instrument ID (2)	:	PEST2
GC Column (1)	:	CLP-Pesticide	GC Column (2)	:	CLP-PesticideII

Analyte	Peak	RT	RT Window From	RT Window To	Concentration	Mean Concentration	%RPD
AROCLOR 1254	1	2.30	2.30	2.40	10.9		
	2	2.42	2.41	2.51	8.69		
COLUMN 1	3	2.60	2.60	2.70	7.46		
	4	2.73	2.73	2.83	10.1		
	5	0.00	2.95	3.05	0.	0.0664J	
	1	2.64	2.63	2.73	10.8		
	2	2.73	2.72	2.82	12.5		
COLUMN 2	3	2.96	2.94	3.04	11.		
	4	3.07	3.05	3.15	10.4		
	5	0.00	3.33	3.43	0.	0.08	19
AROCLOR 1260	1	2.68	2.63	2.73	15.9		
	2	2.81	2.76	2.86	20.8		
COLUMN 1	3	3.13	3.08	3.18	9.6		
	4	3.28	3.23	3.33	14.6		
	5	3.43	3.38	3.48	16.8	0.111	
	1	3.06	3.00	3.10	24.6		
	2	3.16	3.10	3.20	27.6		
COLUMN 2	3	3.55	3.50	3.60	21.1		
	4	3.68	3.63	3.73	22.3		
	5	3.88	3.83	3.93	23.8	0.171	43

Metals Data Section

ALPHA GEOSCIENCE

Geology
Hydrology
Remediation
Water Supply

QA/QC Review of TAL Metals Data
for Alpha Analytical Labs
SDG Number: L2430219

8 Ground Water Samples, 1 Field Duplicate,
and 1 Field Blank
Collected May 30, 2024

Prepared by: Donald Anné
June 28, 2024

Holding Times: The samples were analyzed within USEPA SW-846 holding times.

Initial and Continuing Calibration Verification: The percent recoveries for target metals were within control limits (90-110% for all metals except Hg, 80-120% for Hg).

Blanks: The analyses of initial and continuing calibration, method, and field blanks reported target metals as either not detected or below the reporting limits, as required.

ICP Interference Check Sample: The percent recoveries for applicable metals were within control limits (80-120%).

Spike Sample Recovery: The percent recoveries (%Rs) for applicable metals were within control limits (75-125%) for aqueous dissolved and total MS/MSD sample MW-4D.

Laboratory Duplicates: The relative percent differences for applicable metals were below the allowable maximum (20%) for aqueous dissolved and total MS/MSD sample MW-4D, as required.

Field Duplicates: The relative percent differences for applicable metals were below the allowable maximum (20%) for aqueous total and dissolved field duplicate pair MW-8S/DUP (attached table), as required.

Laboratory Control Sample: The percent recoveries for target metals were within control limits (80-120%) for aqueous total samples WG1930718-2 and WG1930719-2, and aqueous dissolved samples WG-19230656-2 and WG1930658-2.

Serial Dilution: The %Ds for applicable metals were below the allowable maximum (10%) for aqueous total serial dilution sample MW-4D.

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The %D for sodium was above the allowable maximum (10%) for aqueous dissolved serial dilution sample MW-4D. Positive results for sodium that are above the RL should be considered estimated (J) in associated dissolved aqueous samples.

Total vs Dissolved: The dissolved result for magnesium was greater than the total results plus 10% for sample MW-1S. The dissolved result for nickel was greater than the total results plus 10% for sample MW-8S. The dissolved results for potassium was greater than the total results plus 10% for sample DUP. Positive results for total and dissolved metals should be considered estimated (J) in the samples.

Form 8
Serial Dilutions

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Client Sample ID	: MW-4D	Matrix	: WATER
Lab Sample ID	: L2430219-04	Analysis Date	: 06/11/24 18:10
Serial Dilution ID	: WG1930656-10	Analysis Date	: 06/11/24 18:29

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Sodium, Dissolved	51.6	59.3	15	20

General Chemistry
Data Section

ALPHA GEOSCIENCE
Geology
Hydrology
Remediation
Water Supply

QA/QC Review of Alkalinity Data for
Alpha Analytical Labs, SDG Number: L2430219

8 Ground Water Samples and 1 Field Duplicate
Collected May 30, 2024

Prepared by: Donald Anné
June 28, 2024

Holding Times: Samples were analyzed within USEPA SW 846 holding times.

Blanks: The analyses of the method blanks reported carbonate and bicarbonate alkalinity as not detected.

Laboratory Duplicates: The relative percent differences for bicarbonate alkalinity were below the allowable maximum (20%) for aqueous duplicate samples MW-4D and DUP, as required.

Field Duplicates: The relative percent difference for bicarbonate alkalinity was below the allowable maximum (20%) for aqueous field duplicate pair MW-8S/DUP (attached table), as required.

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QA/QC Review of Iodide Data for
Alpha Analytical Labs, SDG Number: L2430219

8 Ground Water Samples and 1 Field Duplicate
Collected May 30, 2024

Prepared by: Donald Anné
June 28, 2024

Holding Times: Samples were analyzed within USEPA SW 846 holding times.

Blanks: The analyses of the method blanks reported iodide as not detected.

Spike Sample Recovery: The percent recoveries for iodide were within acceptance limits (75-125%) for aqueous batch MS/MSD sample 3638505.

Laboratory Duplicates: The relative percent difference for iodide was below the allowable maximum (20%) for aqueous batch MS/MSD sample 3638506, as required.

Field Duplicates: The analyses of aqueous field duplicate pair MW-8S/DUP reported iodide as not detected; therefore, a valid relative percent difference could not be calculated. The analyses for the field duplicate pair were acceptable.

Laboratory Control Sample: The percent recovery for iodide were within laboratory QC limits (80-120%) for aqueous sample 3638499.

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QA/QC Review of Ion Chromatography Data* for
Alpha Analytical Labs, SDG Number: L2430219

8 Ground Water Samples and 1 Field Duplicate
Collected May 30, 2024

Prepared by: Donald Anné
June 28, 2024

Holding Times: Samples were analyzed within USEPA SW 846 holding times.

Blanks: The analysis of the method blank reported target analytes as not detected.

Spike Sample Recovery: Two of two percent recoveries (%Rs) for chloride and 1 of 2 %Rs for fluoride were below acceptable limits (75-125%), but not below 30% for aqueous MS/MSD sample MW-4D. Positive results for chloride and fluoride should be considered estimated (J-) and "not detected" estimated (UJ) in associated samples.

Laboratory Duplicates: The relative percent differences for applicable analytes were below the allowable maximum (20%) for aqueous MS/MSD sample MW-4D, as required.

Field Duplicates: The relative percent differences for target analytes were below the allowable maximum (20%) for aqueous field duplicate pair MW-8S/DUP (attached table), as required.

Laboratory Control Sample: The percent recoveries for target analytes were within laboratory QC limits (90-110%) for aqueous sample WG1929611-2.

* ion chromatography includes bromide, chloride, fluoride, and sulfate.

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Form 5a
Matrix Spike

Client	: Alpha Geoscience	Lab Number	: L2430219
Project Name	: HUNTINGTON READY MIXED	Project Number	: 20116
Client Sample ID	: MW-4D	Matrix	: WATER
Lab Sample ID	: L2430219-04		
Matrix Spike	: WG1929611-3	MS Analysis Date	: 06/04/24 23:17
Matrix Spike Dup	: WG1929611-4	MSD Analysis Date	: 06/04/24 23:29

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R		Spike Added (mg/l)	Spike Conc. (mg/l)	%R		RPD	Recovery Limits	RPD Limit
Bromide	0.047J	0.8	0.369	92		0.4	0.370	93		1	90-110	20
Fluoride	0.077	0.8	0.376	74	Q	0.4	0.376	75	Q	1	90-110	15
Sulfate	7.90	8	15.7	98		8	15.7	97		1	90-110	20

Form 5a
Matrix Spike

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Client Sample ID	:	MW-4D	Matrix	:	WATER
Lab Sample ID	:	L2430219-04			
Matrix Spike	:	WG1929611-3	MS Analysis Date	:	06/04/24 23:54
Matrix Spike Dup	:	WG1929611-4	MSD Analysis Date	:	06/05/24 00:06

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R		Spike Added (mg/l)	Spike Conc. (mg/l)	%R		RPD	Recovery Limits	RPD Limit
Chloride	138.	40	167.	72	Q	40	167.	73	Q	1	90-110	18

ALPHA GEOSCIENCE

Geology
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Water Supply

QA/QC Review of Ammonia Data for
Alpha Analytical Labs, SDG Number: L2430219

8 Ground Water Samples and 1 Field Duplicate
Collected May 30, 2024

Prepared by: Donald Anné
June 28, 2024

Holding Times: Samples were analyzed within USEPA SW 846 holding times.

Blanks: The analyses of the method blanks reported ammonia as either below the reporting limit or not detected, as required.

Spike Sample Recovery: The percent recovery for ammonia was within acceptable limits (75-125%) for aqueous spike sample MW-4D.

Laboratory Duplicates: The analysis of aqueous duplicate sample MW-4D was acceptable.

Field Duplicates: The analyses of aqueous field duplicate pair MW-8S/DUP reported ammonia as not detected; therefore, a valid relative percent difference could not be calculated. The analyses for the field duplicate pair were acceptable.

Laboratory Control Sample: The percent recovery for ammonia was within laboratory QC limits (90-110%) for aqueous sample WG1929181-2.

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QA/QC Review of Nitrate Data for
Alpha Analytical Labs, SDG Number: L2430219

8 Ground Water Samples and 1 Field Duplicate
Collected May 30, 2024

Prepared by: Donald Anné
June 28, 2024

Holding Times: Samples were analyzed within USEPA SW 846 holding times.

Blanks: The analyses of the method blanks reported nitrate as not detected.

Spike Sample Recovery: The percent recovery for nitrate was within acceptable limits (75-125%) for aqueous spike sample MW-4D.

Laboratory Duplicates: The relative percent difference for nitrate was below the allowable maximum (20%) for aqueous duplicate sample MW-4D, as required.

Field Duplicates: The relative percent difference for nitrate was below the allowable maximum (20%) for aqueous field duplicate pair MW-8S/DUP (attached table), as required.

Laboratory Control Sample: The percent recovery for nitrate was within laboratory QC limits (90-110%) for aqueous sample WG1929181-2.

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QA/QC Review of Phosphate Data for
Alpha Analytical Labs, SDG Number: L2430219

8 Ground Water Samples and 1 Field Duplicate
Collected May 30, 2024

Prepared by: Donald Anné
June 28, 2024

Holding Times: Samples were analyzed within USEPA SW 846 holding times.

Blanks: The analyses of the method blanks reported phosphate as not detected.

Spike Sample Recovery: The percent recovery for phosphate was within acceptable limits (75-125%) for aqueous spike sample MW-2S.

Laboratory Duplicates: The relative percent difference for phosphate was below the allowable maximum (20%) for aqueous duplicate sample MW-2S as required.

Field Duplicates: The relative percent difference for phosphate was below the allowable maximum (20%) for aqueous field duplicate pair MW-8S/DUP (attached table), as required.

Laboratory Control Sample: The percent recovery for phosphate within laboratory QC limits (84-118%) for aqueous sample WG1930485-2.

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QA/QC Review of Sulfide Data for
Alpha Analytical Labs, SDG Number: L2430219

8 Ground Water Samples and 1 Field Duplicate
Collected May 30, 2024

Prepared by: Donald Anné
June 28, 2024

Holding Times: Samples were analyzed within USEPA SW 846 holding times.

Blanks: The analysis of the method blank reported sulfide as not detected.

Spike Sample Recovery: The percent recovery for sulfide was below acceptance limits (75-125%) for aqueous spike sample MW-4D. Positive results for sulfide should be considered estimated, biased low (J-) and "not detected" results estimated (UJ) in associated aqueous samples.

Laboratory Duplicates: The analysis of aqueous duplicate sample MW-3S was acceptable.

Field Duplicates: The analyses of aqueous field duplicate pair MW-8S/DUP reported sulfide as not detected; therefore, a valid relative percent difference could not be calculated. The analyses for the field duplicate pair were acceptable.

Laboratory Control Sample: The percent recovery for sulfide was within laboratory QC limits (75-125%) for aqueous sample WG1929774-2.

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Form 5a
Matrix Spike

Client	:	Alpha Geoscience	Lab Number	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	Project Number	:	20116
Client Sample ID	:	MW-4D	Matrix	:	WATER
Lab Sample ID	:	L2430219-04			
Matrix Spike	:	WG1929774-4	MS Analysis Date	:	06/05/24 09:14
Matrix Spike Dup	:		MSD Analysis Date	:	

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Sulfide	ND	0.49	0.31	63	Q					70-130	20

ALPHA GEOSCIENCE

Geology
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Water Supply

QA/QC Review of Total Kjeldahl Nitrogen Data (TKN) for Alpha Analytical Labs, SDG Number: L2430219

8 Ground Water Samples and 1 Field Duplicate Collected May 30, 2024

Prepared by: Donald Anné
June 28, 2024

Holding Times: Samples were analyzed within USEPA SW 846 holding times.

Blanks: The analysis of the method blank reported TKN as either not detected or below the RL.

Spike Sample Recovery: The percent recovery for TKN was within acceptable limits (75-125%) for aqueous spike sample MW-4D.

Laboratory Duplicates: The analysis of aqueous duplicate sample MW-4D was acceptable.

Field Duplicates: The relative percent difference for TKN was below the allowable maximum (20%) for aqueous field duplicate pair MW-8S/DUP (attached table), as required.

Laboratory Control Sample: The percent recovery for TKN was within laboratory QC limits (78-122%) for aqueous sample WG1931426-2.

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TDS Data Section

ALPHA GEOSCIENCE

Geology
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Remediation
Water Supply

QA/QC Review of Total Dissolved Solids Data (TDS) for Alpha Analytical Labs, SDG Number: L2430219

8 Ground Water Samples and 1 Field Duplicate Collected May 30, 2024

Prepared by: Donald Anné
June 28, 2024

Holding Times: Samples were analyzed within USEPA SW 846 holding times.

Blanks: The analyses of the method blanks reported TDS as either not detected or below the RL, as required.

Laboratory Duplicates: The relative percent difference for TDS was below the allowable maximum (20%) for aqueous duplicate sample MW-4D.

Field Duplicates: The relative percent difference for TDS was below the allowable maximum (20%) for aqueous field duplicate pair MW-8S/Dup (attached table), as required.

Laboratory Control Sample: The percent recovery for TDS was within QC limits (80-120%) for aqueous sample WG1929189-2.

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Field Duplicate Calculation Section

Semi-Volatiles

Calculations for Field Duplicate Relative Percent Difference (RPD)
SDG No. L2430219

S1= MW-8S **S2=** DUP

Analyte	S1	S2	RPD (%)	
2-Chloronaphthalene (SIM)	**0.02**	ND	NC	
Fluoranthene (SIM)	**0.03**	ND	NC	
Naphthalene (SIM)	0.25	0.11	78%	*
Acenaphthylene (SIM)	**0.01**	**0.01**	NC	
Anthracene (SIM)	**0.03**	ND	NC	
Fluorene (SIM)	**0.02**	**0.01**	NC	
Phenanthrene (SIM)	**0.04**	ND	NC	
2-Methylnaphthalene (SIM)	**0.03**	ND	NC	
Hexachlorobenzene (SIM)	**0.03**	ND	NC	

* RPD is above the allowable maximum 20%

Results are in units of ug/L.

Bold numbers were values that are below the CRQL or above the high standard.
ND - Not detected.
NC - Not calculated, both results must be within the linear range for valid RPDs to be calculated.

PCBs

Calculations for Field Duplicate Relative Percent Difference (RPD)
SDG No. L2430219

S1= MW-8S **S2=** DUP

Analyte	S1	S2	RPD (%)
Aroclor 1016	ND	ND	NC
Aroclor 1221	ND	ND	NC
Aroclor 1232	ND	ND	NC
Aroclor 1242	ND	ND	NC
Aroclor 1248	ND	ND	NC
Aroclor 1262	ND	ND	NC
Aroclor 1268	ND	ND	NC
Aroclor 1254	**0.069**	0.078	12%
Aroclor 1260	0.134	0.16	18%
PCBs, Total	**0.203**	0.238	NC

* RPD is above the allowable maximum 20%

Results are in units of ug/L.

Bold numbers were values that are below the CRQL or above the high standard.
ND - Not detected.
NC - Not calculated, both results must be within the linear range for valid RPDs to be calculated.

General Chemistries

Calculations for Field Duplicate Relative Percent Difference (RPD)
SDG No. L2430219

S1= MW-8S **S2=** DUP

Analyte	S1	S2	RPD (%)
Total Nitrogen	1	0.97	3%
Nitrogen, Total Kjeldahl	0.428	0.368	15%
Nitrogen, Ammonia	ND	ND	NC
Nitrogen, Nitrate/Nitrite	0.6	0.6	0%
Solids, Total Dissolved	290	270	7%
Sulfide	ND	ND	NC
Alkalinity, Carbonate	ND	ND	NC
Alkalinity, Bicarbonate	80.3	82.2	2%
Phosphate, Total	**0.015**	**0.015**	0%
Bromide	0.115	0.117	2%
Chloride	45.6	45.4	0%
Fluoride	0.077	0.077	0%
Sulfate	72	71.8	0%
Iodide	ND	ND	NC

* RPD is above the allowable maximum 20%.

Results are in units of mg/L with the exception of alkalinity which is reported in mg CaCO3/L .

Bold numbers were values that are below the RL.
ND - Not detected.
NC - Not calculated, both results must be above the CRDL for valid RPDs to be calculated.

TAL Metals-Total

Calculations for Field Duplicate Relative Percent Difference (RPD)
SDG No. L2430219

S1= MW-8S **S2=** DUP

Analyte	S1	S2	RPD (%)
aluminum	**0.00487**	**0.00391**	NC
antimony	ND	ND	NC
arsenic	**0.00018**	**0.00017**	NC
barium	0.06372	0.06447	1%
beryllium	ND	ND	NC
cadmium	ND	ND	NC
calcium	41.6	41.5	0%
chromium	0.00112	**0.00055**	NC
cobalt	**0.00021**	**0.00021**	NC
copper	0.00248	0.00262	5%
iron	ND	ND	NC
lead	ND	ND	NC
magnesium	4.08	4.12	1%
manganese	0.01224	0.01235	1%
mercury	ND	ND	NC
nickel	**0.00103**	**0.00076**	NC
potassium	25.1	25.4	1%
selenium	ND	ND	NC
silver	ND	ND	NC
sodium	30.9	31.2	1%
thallium	**0.00019**	**0.0002**	NC
vanadium	ND	ND	NC
zinc	ND	ND	NC

* RPD is above the allowable maximum 20%.

All results are in units of mg/L.

Bold numbers were values that are below the CRDL.
ND - Not detected.
NC - Not calculated, both results must be above the CRDL for valid RPDs to be calculated.

TAL Metals-Dissolved

Calculations for Field Duplicate Relative Percent Difference (RPD)
SDG No. L2430219

S1= MW-8S **S2=** DUP

Analyte	S1	S2	RPD (%)
aluminum (dissolved)	ND	ND	NC
antimony (dissolved)	ND	**0.00062**	NC
arsenic (dissolved)	**0.00017**	**0.00027**	NC
barium (dissolved)	0.06408	0.06346	1%
beryllium (dissolved)	ND	ND	NC
cadmium (dissolved)	ND	ND	NC
calcium (dissolved)	41.5	43	4%
chromium (dissolved)	**0.00034**	**0.00036**	NC
cobalt (dissolved)	**0.0002**	**0.00018**	NC
copper (dissolved)	0.00252	0.00257	2%
iron (dissolved)	ND	ND	NC
lead (dissolved)	ND	ND	NC
magnesium (dissolved)	4.26	4.31	1%
manganese (dissolved)	0.01073	0.01084	1%
mercury (dissolved)	ND	ND	NC
nickel (dissolved)	0.00656	**0.00064**	NC
potassium (dissolved)	ND	ND	NC
selenium (dissolved)	ND	ND	NC
silver (dissolved)	ND	ND	NC
sodium (dissolved)	31.8	32.2	1%
thallium (dissolved)	**0.00018**	**0.00018**	NC
vanadium (dissolved)	ND	ND	NC
zinc (dissolved)	ND	ND	NC

* RPD is above the allowable maximum 20%.

All results are in units of mg/L.

Bold numbers were values that are below the CRDL.
ND - Not detected.
NC - Not calculated, both results must be above the CRDL for valid RPDs to be calculated.

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Alpha Analytical

Laboratory Code: 11148

SDG Number: L2430219

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Project Name: HUNTINGTON READY MIXED
Project Number: 20116

Lab Number: L2430219
Report Date: 06/18/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2430219-01	MW-1S	WATER	SPEONK, NY	05/30/24 13:05	05/31/24
L2430219-02	MW-2S	WATER	SPEONK, NY	05/30/24 11:30	05/31/24
L2430219-03	MW-3S	WATER	SPEONK, NY	05/30/24 10:07	05/31/24
L2430219-04	MW-4D	WATER	SPEONK, NY	05/30/24 13:45	05/31/24
L2430219-05	MW-5S	WATER	SPEONK, NY	05/30/24 14:28	05/31/24
L2430219-06	MW-6D	WATER	SPEONK, NY	05/30/24 12:00	05/31/24
L2430219-07	MW-7S	WATER	SPEONK, NY	05/30/24 11:00	05/31/24
L2430219-08	MW-8S	WATER	SPEONK, NY	05/30/24 16:10	05/31/24
L2430219-09	DUP	WATER	SPEONK, NY	05/30/24 00:00	05/31/24
L2430219-10	FB	WATER	SPEONK, NY	05/30/24 14:25	05/31/24
L2430219-11	TB	WATER	SPEONK, NY	05/30/24 00:00	05/31/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Case Narrative (continued)

Report Submission
June 18, 2024: This final report includes the results of all requested analyses.
June 12, 2024: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The analysis of Iodide was subcontracted. A copy of the laboratory report is included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

Sample Receipt
L2430219-01 through -10: The analysis of Herbicides -EPA 8151A was requested on the Chain of Custody; however, sample containers were not received. This was verified by the client.
L2430219-04 and -06: The sample was received below the appropriate pH for the Sulfide analysis. The laboratory added additional NaOH to a pH >9.
L2430219-09: One of the sample containers for Pesticides was received broken; however, there was adequate sample remaining to perform the requested analysis.

Dissolved Metals
The WG1930656-7/-8 MS/MSD recoveries for sodium (192%/202%), performed on L2430219-04, do not apply because the sample concentration is greater than four times the spike amount added.

Anions by Ion Chromatography
L2430219-01: The sample has an elevated detection limit for bromide due to the dilution required by the sample matrix.
The WG1929611-3/-4 MS/MSD recoveries, performed on L2430219-04, are outside the acceptance criteria for chloride (72%/73%) and fluoride (74%/75%); however, the associated LCS recoveries are within criteria. No further action was taken.

Case Narrative (continued)

Sulfide

The WG1929774-4 MS recovery, performed on L2430219-04, is outside the acceptance criteria for sulfide (63%); however, the associated LCS recovery is within criteria. No further action was taken.

Solids, Total Dissolved

The WG1929189-4 Laboratory Duplicate RPD for solids, total dissolved (11%), performed on L2430219-04, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Tiffani Morrissey Report Date: 06/18/24

Title: Technical Director/Representative

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: DU Report with 'J' Qualifiers

Data Qualifiers

the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 7890 GC/5975C MSD	Columns (length x ID x df):
Trap: Supelco K Trap (VOACARB 3000)	RTX-VMS 20m x 0.18mm x 1um
Concentrator: EST Encon (or equivalent)	RTX-VMS 30m x 0.25mm x 1.4um
Autosampler: EST Centurion (or equivalent)	RTX-502.2 40m x 0.18mm x 1um
Purge time: 11 min	

Volatile Organics: VPH

Instrument: Agilent 6890 (or equivalent)	Column Type: Restek RTX 502.2
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 105 Meters
Concentrator: EST Encon (or equivalent)	df: 3.00 um
Autosampler: EST Centurion (or equivalent)	ID: 0.53mm

Volatile Organics: PIANO

Instrument: Agilent 7890 GC/5975C MSD	Column Type: DB-VRX
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 60 Meters
Concentrator: Tekmar Velocity / EST Encon	df: 1.40 um
Autosampler: Varian Archon / EST Centurion	ID: 0.25 mm
Purge time: 11 min	Desorb: 1 min

Volatile Organics: Dissolved Gas

Instrument: Agilent 7890 (or equivalent) with FID/TCD

	Column Type: Haysep S Column
	Column Length: 2 Meters packed (100/200 mesh)
Autosampler: LEAP Headspace	Purge time: 0.6 min

Volatile Organics in Air Instruments

Volatile Organics in Air:

Instruments: Agilent 6890 GC / 5975 MSD Shimadzu QP2010-SE / QP2020

Concentrator: Entech 7100A or 7200	Column Type: Restek RTX-1
Autosampler: Entech 7016CA or 7016D	Column Length: 60 Meters
	df: 1.00 um
	ID: 0.25 mm or 0.32 mm

Trap 1: Glass Bead: manufacturer-Entech: 20 cm packing material
Trap 2: Tenax: manufacturer-Entech: 20 cm packing material

Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

Instrument: Agilent 5973N MSD	Injection volume: 1 ul;2 uL LVI
Column Type: Restek RXI-5SILMS	df: 0.32 um
Column Length: 30 Meters	ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

Instrument: Agilent 5973 MSD	Injection volume: 1 ul;2 uL LVI
Column Type: Restek RXI-5SILMS	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Pesticides/PCB/Herbicides:

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Petroleum/EPH:

Instrument: Agilent 6890 w/FID / HP 5890 w/ FID	Injection Volume: 1uL
Column: Restek RTX 5	df: 0.25
Column Length: 30 Meters	
ID: 0.32 mm	

Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 1 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8270):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 2 ul
Column Type: ZB-Semivolatiles	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (8270 SIM):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (1,4-Dioxane):

Instrument: Agilent 5973N / 5975 / 5977 MSD	Injection volume: 3 ul
Column Type: RTX-5	df: 0.25um, 0.18 um
Column Length: 30 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (209 Congener):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: RTX-5, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (8081):

Instrument: Agilent 6890 / 7890	Injection volume: 1 ul
Column Type: RTX-5 / RTX-CLP II	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8082):

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Semivolatile Organics (SHC Extractables):

Instrument: Agilent 6890	Injection volume: 1 ul
Column Type: RTX-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Sample Delivery Group Summary

Alpha Job Number : L2430219

Received : 31-MAY-2024
Reviewer : Mohammed Wahed

Account Name : Alpha Geoscience
Project Number : 20116
Project Name : HUNTINGTON READY MIX

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	3.2	
B	Absent/	Ice	2.3	
C	Absent/	Ice	2.2	
D	Absent/	Ice	2.3	
E	Absent/	Ice	2.7	
F	Absent/	Ice	2.5	
G	Absent/	Ice	2.1	

Condition Information

1) All samples on COC received? **YES**

2) Extra samples received? **NO**

3) Are there any sample container discrepancies? **YES**
L2430219-09G (ARCHIVE) was received in broken container.
Following containers were not received for listed analysis: -01 (HERB-APA), -02 (HERB-APA), -03 (HERB-APA), -04(HERB-APA), -05 (HERB-APA), -06 (HERB-APA), -07 (HERB-APA), -08 (HERB-APA), -09 (HERB-APA), -10 (HERB-APA)

4) Are there any discrepancies between COC & sample labels? **NO**

5) Are samples in appropriate containers for requested analysis? **YES**

6) Are samples properly preserved for requested analysis? **NO**

Container	pH	Preservative Added	Final pH
L2430219-04O	8	NaOH	>9
L2430219-04P	8	NaOH	>9
L2430219-06O	8	NaOH	>9
L2430219-06P	8	NaOH	>9

Sample Delivery Group Summary

Alpha Job Number : L2430219

Received : 31-MAY-2024
Reviewer : Mohammed Wahed

Account Name : Alpha Geoscience
Project Number : 20116
Project Name : HUNTINGTON READY MIX

7) Are samples within holding time for requested analysis? **YES**

8) All sampling equipment returned? **NA**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client? **NO**

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jun 18 2024, 07:23 pm

Login Number: L2430219
Account: ALPHAGEO Alpha GeoscienceProject: 20116
Received: 31MAY24 Due Date: 18JUN24

Sample #	Client ID	Mat	PR	Collected

L2430219-01 MW-1S 1 S0 30MAY24 13:05

NYTCL-8260-R2: REPORT LIST BUILT; Non-Routine: Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane
NYTCL-8270-LVI: REPORT LIST BUILT; Non-Routine: 1,2,4,5-Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol; Atrazine;Benzaldehyde;Caprolactam 1ZE306540196986054 123.29 USD Ok to report SUB-IODIDE to the RL. ASP-B Package Due Date: 06/18/24

ALK-CO3-2320,ALK-HCO3-2320,ASP-B,BR-300,CL-300,F-300,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SULFIDE-4500,TAL-6020S,AG-6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN,NO3/NO2-4500,TKN-4500,TNITROGEN,TPO4-4500

L2430219-02 MW-2S 1 S0 30MAY24 11:30

NYTCL-8260-R2: REPORT LIST BUILT; Non-Routine: Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane
NYTCL-8270-LVI: REPORT LIST BUILT; Non-Routine: 1,2,4,5-Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol; Atrazine;Benzaldehyde;Caprolactam Ok to report SUB-IODIDE to the RL. Package Due Date: 06/18/24

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-300,F-300,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SULFIDE-4500,TAL-6020S,AG-6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN,NO3/NO2-4500,TKN-4500,TNITROGEN,TPO4-4500

L2430219-03 MW-3S 1 S0 30MAY24 10:07

NYTCL-8260-R2: REPORT LIST BUILT; Non-Routine: Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane
NYTCL-8270-LVI: REPORT LIST BUILT; Non-Routine: 1,2,4,5-Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol; Atrazine;Benzaldehyde;Caprolactam Ok to report SUB-IODIDE to the RL. Package Due Date: 06/18/24

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jun 18 2024, 07:23 pm

Login Number: L2430219
Account: ALPHAGEO Alpha GeoscienceProject: 20116
Received: 31MAY24 Due Date: 18JUN24

Sample #	Client ID	Mat	PR	Collected

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-300,F-300,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,
NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SULFIDE-4500,TAL-6020S,AG-
6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-
S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-
6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-
6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-
6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN,NO3/NO2-4500,TKN-4500,TNITROGEN,TPO4-4500

L2430219-04 MW-4D 1 S0 30MAY24 13:45

L2430219-04 MSD L2430219-04 MS NYTCL-8260-R2: REPORT LIST BUILT; Non-Routine: Freon-113;Cyclohexane;
Methyl Acetate;Methyl cyclohexane NYTCL-8270-LVI: REPORT LIST BUILT; Non-Routine: 1,2,4,5-
Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol;Atrazine;Benzaldehyde;Caprolactam Ok to report SUB-IODIDE
to the RL. Package Due Date: 06/18/24

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-300,F-300,MS/MSD,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-
R2,NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SULFIDE-4500,TAL-6020S,
AG-6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,
HG-S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,
ZN-6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,
CU-6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,
TL-6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN,NO3/NO2-4500,TKN-4500,TNITROGEN,TPO4-4500

L2430219-05 MW-5S 1 S0 30MAY24 14:28

NYTCL-8260-R2: REPORT LIST BUILT; Non-Routine: Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane
NYTCL-8270-LVI: REPORT LIST BUILT; Non-Routine: 1,2,4,5-Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol;
Atrazine;Benzaldehyde;Caprolactam Ok to report SUB-IODIDE to the RL. Package Due Date: 06/18/24

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jun 18 2024, 07:23 pm

Login Number: L2430219
Account: ALPHAGEO Alpha GeoscienceProject: 20116
Received: 31MAY24 Due Date: 18JUN24

Sample #	Client ID	Mat	PR	Collected

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-300,F-300,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,
NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SULFIDE-4500,TAL-6020S,AG-
6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-
S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-
6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-
6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-
6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN,NO3/NO2-4500,TKN-4500,TNITROGEN,TPO4-4500

L2430219-06 MW-6D 1 S0 30MAY24 12:00

NYTCL-8260-R2: REPORT LIST BUILT; Non-Routine: Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane
NYTCL-8270-LVI: REPORT LIST BUILT; Non-Routine: 1,2,4,5-Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol;
Atrazine;Benzaldehyde;Caprolactam Ok to report SUB-IODIDE to the RL. Package Due Date: 06/18/24

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-300,F-300,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,
NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SULFIDE-4500,TAL-6020S,AG-
6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-
S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-
6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-
6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-
6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN,NO3/NO2-4500,TKN-4500,TNITROGEN,TPO4-4500

L2430219-07 MW-7S 1 S0 30MAY24 11:00

NYTCL-8260-R2: REPORT LIST BUILT; Non-Routine: Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane
NYTCL-8270-LVI: REPORT LIST BUILT; Non-Routine: 1,2,4,5-Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol;
Atrazine;Benzaldehyde;Caprolactam Ok to report SUB-IODIDE to the RL. Package Due Date: 06/18/24

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jun 18 2024, 07:23 pm

Login Number: L2430219
Account: ALPHAGEO Alpha GeoscienceProject: 20116
Received: 31MAY24 Due Date: 18JUN24

Sample #	Client ID	Mat	PR	Collected

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-300,F-300,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,
NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SULFIDE-4500,TAL-6020S,AG-
6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-
S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-
6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-
6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-
6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN,NO3/NO2-4500,TKN-4500,TNITROGEN,TPO4-4500

L2430219-08 MW-8S 1 S0 30MAY24 16:10

NYTCL-8260-R2: REPORT LIST BUILT; Non-Routine: Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane
NYTCL-8270-LVI: REPORT LIST BUILT; Non-Routine: 1,2,4,5-Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol;
Atrazine;Benzaldehyde;Caprolactam Ok to report SUB-IODIDE to the RL. Package Due Date: 06/18/24

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-300,F-300,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,
NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SULFIDE-4500,TAL-6020S,AG-
6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-
S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-
6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-
6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-
6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN,NO3/NO2-4500,TKN-4500,TNITROGEN,TPO4-4500

L2430219-09 DUP 1 S0 30MAY24 00:00

NYTCL-8260-R2: REPORT LIST BUILT; Non-Routine: Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane
NYTCL-8270-LVI: REPORT LIST BUILT; Non-Routine: 1,2,4,5-Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol;
Atrazine;Benzaldehyde;Caprolactam Ok to report SUB-IODIDE to the RL. Package Due Date: 06/18/24

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jun 18 2024, 07:23 pm

Login Number: L2430219
Account: ALPHAGEO Alpha GeoscienceProject: 20116
Received: 31MAY24 Due Date: 18JUN24

Sample #	Client ID	Mat	PR	Collected

ALK-CO3-2320,ALK-HCO3-2320,ARCHIVE,BR-300,CL-300,F-300,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SULFIDE-4500,TAL-6020S,AG-6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN,NO3/NO2-4500,TKN-4500,TNITROGEN,TPO4-4500

L2430219-10 FB 1 S0 30MAY24 14:25

NYTCL-8260-R2: REPORT LIST BUILT; Non-Routine: Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane
NYTCL-8270-LVI: REPORT LIST BUILT; Non-Routine: 1,2,4,5-Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol;Atrazine;Benzaldehyde;Caprolactam Ok to report SUB-IODIDE to the RL. Package Due Date: 06/18/24

NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,TAL-6020S,AG-6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-6020T,V-6020T,ZN-6020T

L2430219-11 TB 1 S0 30MAY24 00:00

NYTCL-8260-R2: REPORT LIST BUILT; Non-Routine: Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane
NYTCL-8270-LVI: REPORT LIST BUILT; Non-Routine: 1,2,4,5-Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol;Atrazine;Benzaldehyde;Caprolactam Ok to report SUB-IODIDE to the RL. Package Due Date: 06/18/24

NYTCL-8260-R2

Logged By: Melissa Deyo

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 5/31/24

ALPHA Job #: L2430219

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: Alpha Geoscience
Address: 679 Plank Road
Clifton Park, NY 12065
Phone: 518-348-6995
Fax:
Email: shulseapple@alphageoscience.co

Project Information

Project Name: Huntington Ready Mixed
Project Location: Speonk, NY
Project #: 20116
(Use Project name as Project #)
Project Manager: Scott Hulseapple
ALPHAQuote #: Bottle order 469871

Turn-Around Time

Standard x
Rush (only if pre approved)
Due Date:
# of Days:

Deliverables

ASP-A
x ASP-B
EQuIS (1 File)
x EQuIS (NYSDEC v4)
Other

Regulatory Requirement

x NY TOGS
AWQ Standards
NY Restricted Use
NY Unrestricted Use
NYC Sewer Discharge
NY Part 375
NY CP-51
Other

Billing Information

Same as Client Info
PO # 20116

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
NJ NY x
Other:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Dissolved metals are field filtered

Please specify Metals or TAL.

ANALYSIS

Sample Filtration

x Done
Lab to do
Preservation
Lab to do

(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs 8260 TCL	SVOCs 8270 TCL	Pest/PCBs 8081/8082	Herbicides 8151	Total & DissolvedTCL Metals	Sulfide	NO3/NO2, Tnit, TKN, NH3	Cl, Br, F, SO4, Alk, TDS	Total Phosphate	Iodide	Sample Specific Comments	Total Bottles
30219 -01	MW-1S	5/30/24	1305	WG	JB	x	x	x	x	x	x	x	x	x	x		
-02	MW-2S		1130	WG	JB	x	x	x	x	x	x	x	x	x	x		
-03	MW-3S		1007	WG	JB	x	x	x	x	x	x	x	x	x	x		
-04	MW-4D		1345	WG	SH	x	x	x	x	x	x	x	x	x	x		
	MS		1345	WG	SH	x	x	x	x	x	x					MS/MSD = MW-4D	
↓	MSD		1345	WG	SH	x	x	x	x	x	x						
-05	MW-5S		1428	WG	JB	x	x	x	x	x	x	x	x	x	x		
-06	MW-6D		1200	WG	SH	x	x	x	x	x	x	x	x	x	x		
-07	MW-7S		1100	WG	SH	x	x	x	x	x	x	x	x	x	x		
-08	MW-8S	↓	1610	WG		x	x	x	x	x	x	x	x	x	x		
Container Type						V	A	A	A	P	P	P	P	P	P		
Preservative						B	A	A	A	C	K	D	A	A	A		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	5/31/24 1045	Scott Welch	5/31/24 1045
Scott Welch	5/31/24 1045	NJSC	5/31/24 1045
NJSC	5/31/24 1643	[signature] Dschroeder	5/31/24 1643
[signature] Dschroeder	5/31/24	[signature] PACE	5/31/24 2100
[signature] PACE	5/31/24 2340		5/31/24 23:10

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 5/31/24

ALPHA Job #: L2430219

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: Alpha Geoscience
Address: 679 Plank Road
Clifton Park, NY 12065
Phone: 518-348-6995
Fax:
Email: shulseapple@alphageoscience.co

Project Information

Project Name: Huntington Ready Mixed
Project Location: Speonk, NY
Project #: 20116
(Use Project name as Project #)
Project Manager: Scott Hulseapple
ALPHAQuote #:

Turn-Around Time

Standard
Rush (only if pre approved)
Due Date:
# of Days:

Deliverables

ASP-A
ASP-B
EQuIS (1 File)
EQuIS (4 File)
Other

Regulatory Requirement

NY TOGS
NY Part 375
AWQ Standards
NY CP-51
NY Restricted Use
Other
NY Unrestricted Use
NYC Sewer Discharge

Billing Information

Same as Client Info
PO # 20116

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
NJ NY
Other:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs 8260 TCL	SVOCs 8270 TCL	Pest/PCBs 8081/8082	Herbicides 8151	Total & DissolvedTCL Metals	Sulfide	NO3/NO2, Tnit, TKN, NH3	Cl, Br, F, SO4, Alk, TDS	Total Phosphate	Iodide	Sample Specific Comments	Total Bottles
30219-09	DUP	5/30/24	0:00	WG	XX	x	x	x	x	x	x	x	x	x	x		
-10	FB	5/30/24	1425	WQ	SH	x	x	x	x	x							
-11	TB	5/30/24	—	WQ	XX	x											

Sample Filtration
Done
Lab to do
Preservation
Lab to do
(Please Specify below)

Container Type	V	A	A	A	P	P	P	P	P	P
Preservative	B	A	A	A	C	K	D	A	A	A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	5/31/24 1045	Scott Wolcik	5/31/24 1045
Scott Wolcik	5/31/24 1643		5/31/24 1643
	5/31/24	PACE	5/31/24 2100
PACE	5/31/24 2310		5/31/24 23:10

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

Organics

GC/MS 8260
Analysis

Volatiles QC Summary

Surrogate Recovery Summary
Form 2
Volatiles

Client: Alpha Geoscience
Project Name: HUNTINGTON READY MIXED

Lab Number: L2430219
Project Number: 20116
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
MW-1S (L2430219-01)	120	100	104	114	0
MW-2S (L2430219-02)	122	101	103	115	0
MW-3S (L2430219-03)	120	100	103	113	0
MW-4D (L2430219-04)	124	99	103	115	0
MW-5S (L2430219-05)	124	98	102	114	0
MW-6D (L2430219-06)	127	100	102	114	0
MW-7S (L2430219-07)	127	100	103	115	0
MW-8S (L2430219-08)	126	99	102	116	0
DUP (L2430219-09)	126	100	101	115	0
FB (L2430219-10)	127	98	103	117	0
TB (L2430219-11)	131*	100	105	114	1
WG1930005-3LCS	112	102	100	100	0
WG1930005-4LCSD	118	101	101	103	0
WG1930005-5BLANK	116	101	104	107	0
MW-4DMS	131*	100	100	106	1
MW-4DMSD	126	101	100	104	0

QC LIMITS

(70-130) DCA = 1,2-DICHLOROETHANE-D4
(70-130) TOL = TOLUENE-D8
(70-130) BFB = 4-BROMOFLUOROBENZENE
(70-130) DBFM = DIBROMOFLUOROMETHANE

*** Values outside of QC limits**

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Alpha Geoscience **Lab Number** : L2430219
Project Name : HUNTINGTON READY MIXED **Project Number** : 20116
Matrix (Level) : WATER (LOW)
LCS Sample ID : WG1930005-3 **Analysis Date** : 06/05/24 06:45 **File ID** : V30240605A01
LCSD Sample ID : WG1930005-4 **Analysis Date** : 06/05/24 07:07 **File ID** : V30240605A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	10	11	110	10	10	100	10	70-130	20
1,1-Dichloroethane	10	12	120	10	11	110	9	70-130	20
Chloroform	10	12	120	10	11	110	9	70-130	20
Carbon tetrachloride	10	11	110	10	10	100	10	63-132	20
1,2-Dichloropropane	10	11	110	10	10	100	10	70-130	20
Dibromochloromethane	10	9.3	93	10	8.7	87	7	63-130	20
1,1,2-Trichloroethane	10	9.6	96	10	9.0	90	6	70-130	20
Tetrachloroethene	10	9.4	94	10	8.2	82	14	70-130	20
Chlorobenzene	10	10	100	10	9.3	93	7	75-130	20
Trichlorofluoromethane	10	12	120	10	11	110	9	62-150	20
1,2-Dichloroethane	10	11	110	10	10	100	10	70-130	20
1,1,1-Trichloroethane	10	11	110	10	10	100	10	67-130	20
Bromodichloromethane	10	10	100	10	9.8	98	2	67-130	20
trans-1,3-Dichloropropene	10	9.8	98	10	8.9	89	10	70-130	20
cis-1,3-Dichloropropene	10	9.6	96	10	9.1	91	5	70-130	20
Bromoform	10	8.6	86	10	8.3	83	4	54-136	20
1,1,2,2-Tetrachloroethane	10	9.8	98	10	9.8	98	0	67-130	20
Benzene	10	11	110	10	10	100	10	70-130	20
Toluene	10	11	110	10	9.5	95	15	70-130	20
Ethylbenzene	10	11	110	10	10	100	10	70-130	20
Chloromethane	10	13	130	10	11	110	17	64-130	20
Bromomethane	10	8.9	89	10	8.1	81	9	39-139	20
Vinyl chloride	10	12	120	10	10	100	18	55-140	20
Chloroethane	10	11	110	10	11	110	0	55-138	20
1,1-Dichloroethene	10	10	100	10	9.2	92	8	61-145	20
trans-1,2-Dichloroethene	10	10	100	10	9.4	94	6	70-130	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Alpha Geoscience **Lab Number** : L2430219
Project Name : HUNTINGTON READY MIXED **Project Number** : 20116
Matrix (Level) : WATER (LOW)
LCS Sample ID : WG1930005-3 **Analysis Date** : 06/05/24 06:45 **File ID** : V30240605A01
LCSD Sample ID : WG1930005-4 **Analysis Date** : 06/05/24 07:07 **File ID** : V30240605A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Trichloroethene	10	9.6	96	10	8.6	86	11	70-130	20
1,2-Dichlorobenzene	10	9.9	99	10	8.9	89	11	70-130	20
1,3-Dichlorobenzene	10	10	100	10	9.1	91	9	70-130	20
1,4-Dichlorobenzene	10	10	100	10	8.9	89	12	70-130	20
Methyl tert butyl ether	10	8.5	85	10	8.7	87	2	63-130	20
p/m-Xylene	20	21	105	20	19	95	10	70-130	20
o-Xylene	20	21	105	20	19	95	10	70-130	20
cis-1,2-Dichloroethene	10	10	100	10	9.3	93	7	70-130	20
Styrene	20	21	105	20	19	95	10	70-130	20
Dichlorodifluoromethane	10	11	110	10	9.9	99	11	36-147	20
Acetone	10	9.7	97	10	10	100	3	58-148	20
Carbon disulfide	10	12	120	10	10	100	18	51-130	20
2-Butanone	10	10	100	10	9.4	94	6	63-138	20
4-Methyl-2-pentanone	10	8.1	81	10	8.9	89	9	59-130	20
2-Hexanone	10	8.2	82	10	9.1	91	10	57-130	20
Bromochloromethane	10	9.6	96	10	9.0	90	6	70-130	20
1,2-Dibromoethane	10	8.8	88	10	8.6	86	2	70-130	20
1,2-Dibromo-3-chloropropane	10	8.1	81	10	8.0	80	1	41-144	20
Isopropylbenzene	10	11	110	10	9.6	96	14	70-130	20
1,2,3-Trichlorobenzene	10	9.5	95	10	8.6	86	10	70-130	20
1,2,4-Trichlorobenzene	10	9.7	97	10	8.6	86	12	70-130	20
Methyl Acetate	10	10	100	10	11	110	10	70-130	20
Cyclohexane	10	11	110	10	10	100	10	70-130	20
1,4-Dioxane	500	400	80	500	410	82	2	56-162	20
Freon-113	10	10	100	10	9.7	97	3	70-130	20
Methyl cyclohexane	10	9.9	99	10	8.8	88	12	70-130	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2430219-04	**Analysis Date**	: 06/05/24 12:38
Matrix Spike	: WG1930005-6	**MS Analysis Date**	: 06/05/24 16:20
Matrix Spike Dup	: WG1930005-7	**MSD Analysis Date**	: 06/05/24 16:42

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	ND	10	11	110	10	11	110	0	70-130	20
1,1-Dichloroethane	ND	10	12	120	10	12	120	0	70-130	20
Chloroform	1.2J	10	13	130	10	13	130	0	70-130	20
Carbon tetrachloride	ND	10	12	120	10	12	120	0	63-132	20
1,2-Dichloropropane	ND	10	11	110	10	11	110	0	70-130	20
Dibromochloromethane	ND	10	9.4	94	10	9.9	99	5	63-130	20
1,1,2-Trichloroethane	ND	10	10	100	10	10	100	0	70-130	20
Tetrachloroethene	ND	10	9.0	90	10	9.2	92	2	70-130	20
Chlorobenzene	ND	10	9.7	97	10	10	100	3	75-130	20
Trichlorofluoromethane	ND	10	13	130	10	14	140	7	62-150	20
1,2-Dichloroethane	ND	10	12	120	10	12	120	0	70-130	20
1,1,1-Trichloroethane	ND	10	12	120	10	12	120	0	67-130	20
Bromodichloromethane	ND	10	11	110	10	11	110	0	67-130	20
trans-1,3-Dichloropropene	ND	10	9.2	92	10	9.8	98	6	70-130	20
cis-1,3-Dichloropropene	ND	10	9.0	90	10	9.4	94	4	70-130	20
Bromoform	ND	10	8.7	87	10	9.1	91	4	54-136	20
1,1,2,2-Tetrachloroethane	ND	10	11	110	10	11	110	0	67-130	20
Benzene	ND	10	11	110	10	11	110	0	70-130	20
Toluene	ND	10	10	100	10	11	110	10	70-130	20
Ethylbenzene	ND	10	10	100	10	11	110	10	70-130	20
Chloromethane	ND	10	13	130	10	14	140 Q	7	64-130	20
Bromomethane	ND	10	8.5	85	10	9.9	99	15	39-139	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2430219-04	**Analysis Date**	: 06/05/24 12:38
Matrix Spike	: WG1930005-6	**MS Analysis Date**	: 06/05/24 16:20
Matrix Spike Dup	: WG1930005-7	**MSD Analysis Date**	: 06/05/24 16:42

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Vinyl chloride	ND	10	12	120	10	13	130	8	55-140	20
Chloroethane	ND	10	12	120	10	12	120	0	55-138	20
1,1-Dichloroethene	ND	10	10	100	10	10	100	0	61-145	20
trans-1,2-Dichloroethene	ND	10	10	100	10	10	100	0	70-130	20
Trichloroethene	ND	10	9.9	99	10	9.8	98	1	70-130	20
1,2-Dichlorobenzene	ND	10	9.4	94	10	9.9	99	5	70-130	20
1,3-Dichlorobenzene	ND	10	9.3	93	10	9.7	97	4	70-130	20
1,4-Dichlorobenzene	ND	10	9.3	93	10	9.6	96	3	70-130	20
Methyl tert butyl ether	ND	10	9.4	94	10	9.8	98	4	63-130	20
p/m-Xylene	ND	20	20	100	20	21	105	5	70-130	20
o-Xylene	ND	20	19	95	20	21	105	10	70-130	20
cis-1,2-Dichloroethene	ND	10	9.7	97	10	10	100	3	70-130	20
Styrene	ND	20	20	100	20	21	105	5	70-130	20
Dichlorodifluoromethane	ND	10	12	120	10	12	120	0	36-147	20
Acetone	ND	10	12	120	10	13	130	8	58-148	20
Carbon disulfide	ND	10	11	110	10	12	120	9	51-130	20
2-Butanone	ND	10	11	110	10	12	120	9	63-138	20
4-Methyl-2-pentanone	ND	10	9.6	96	10	10	100	4	59-130	20
2-Hexanone	ND	10	9.8	98	10	10	100	2	57-130	20
Bromochloromethane	ND	10	9.8	98	10	9.8	98	0	70-130	20
1,2-Dibromoethane	ND	10	8.9	89	10	9.6	96	8	70-130	20
1,2-Dibromo-3-chloropropane	ND	10	8.7	87	10	9.2	92	6	41-144	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2430219-04	**Analysis Date**	: 06/05/24 12:38
Matrix Spike	: WG1930005-6	**MS Analysis Date**	: 06/05/24 16:20
Matrix Spike Dup	: WG1930005-7	**MSD Analysis Date**	: 06/05/24 16:42

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Isopropylbenzene	ND	10	9.8	98	10	10	100	2	70-130	20
1,2,3-Trichlorobenzene	ND	10	8.7	87	10	9.2	92	6	70-130	20
1,2,4-Trichlorobenzene	ND	10	8.5	85	10	8.9	89	5	70-130	20
Methyl Acetate	ND	10	12	120	10	11	110	9	70-130	20
Cyclohexane	ND	10	11	110	10	12	120	9	70-130	20
1,4-Dioxane	ND	500	400	80	500	490	98	20	56-162	20
Freon-113	ND	10	10	100	10	11	110	10	70-130	20
Methyl cyclohexane	ND	10	8.6J	86	10	9.5J	95	10	70-130	20

Method Blank Summary
Form 4
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab Sample ID	: WG1930005-5	**Lab File ID**	: V30240605A05
Instrument ID	: VOA130		
Matrix	: WATER	**Analysis Date**	: 06/05/24 08:13

Client Sample No.	Lab Sample ID	Analysis Date
WG1930005-3LCS	WG1930005-3	06/05/24 06:45
WG1930005-4LCSD	WG1930005-4	06/05/24 07:07
MW-1S	L2430219-01	06/05/24 11:31
MW-2S	L2430219-02	06/05/24 11:53
MW-3S	L2430219-03	06/05/24 12:15
MW-4D	L2430219-04	06/05/24 12:38
MW-5S	L2430219-05	06/05/24 13:00
MW-6D	L2430219-06	06/05/24 13:22
MW-7S	L2430219-07	06/05/24 13:44
MW-8S	L2430219-08	06/05/24 14:06
DUP	L2430219-09	06/05/24 14:29
FB	L2430219-10	06/05/24 14:51
TB	L2430219-11	06/05/24 15:13
MW-4DMS	WG1930005-6	06/05/24 16:20
MW-4DMSD	WG1930005-7	06/05/24 16:42

Instrument Performance Check (Tune) Summary
Form 5
Volatiles
Bromofluorobenzene (BFB)

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: VOA130	**Analysis Date**	: 04/29/24 16:21
Tune Standard	: WG1915725-1	**Tune File ID**	: V30240429ABF3_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	18.9
75	30.0 - 80.0% of mass 95	49.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0 (0)1
174	Greater than 50.0% of mass 95	76.6
175	5.0 - 9.0% of mass 174	5.5 (7.2)1
176	Greater than 95.0% but less than 101% of mass	73.8 (96.3)1
177	5.0 - 9.0% of mass 176	4.3 (5.8)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.5PPB	R1823690-1	V30240429A03	04/29/24 17:24
STD0.19PPB	R1823690-2	V30240429A06	04/29/24 18:29
STD2PPB	R1823690-3	V30240429A07	04/29/24 18:51
STD10PPB	R1823690-4	V30240429A08	04/29/24 19:13
STD30PPB	R1823690-5	V30240429A09	04/29/24 19:35
STD80PPB	R1823690-6	V30240429A10	04/29/24 19:57
STD120PPB	R1823690-7	V30240429A11	04/29/24 20:18
STD200PPB	R1823690-8	V30240429A12	04/29/24 20:40
Correlation Data Summary	R1823690-9	V30240429A17	04/29/24 22:30
ICV Quant Report	R1823690-9	V30240429A17	04/29/24 22:30

Instrument Performance Check (Tune) Summary
Form 5
Volatiles
Bromofluorobenzene (BFB)

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: VOA130	**Analysis Date**	: 06/05/24 06:32
Tune Standard	: WG1930005-1	**Tune File ID**	: V30240605ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	22.2
75	30.0 - 80.0% of mass 95	53.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0 (0)1
174	Greater than 50.0% of mass 95	71.7
175	5.0 - 9.0% of mass 174	5.9 (8.2)1
176	Greater than 95.0% but less than 101% of mass	69 (96.1)1
177	5.0 - 9.0% of mass 176	4.7 (6.8)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1930005-2CCAL	WG1930005-2	V30240605A01	06/05/24 06:45
WG1930005-3LCS	WG1930005-3	V30240605A01	06/05/24 06:45
WG1930005-4LCSD	WG1930005-4	V30240605A02	06/05/24 07:07
WG1930005-5BLANK	WG1930005-5	V30240605A05	06/05/24 08:13
MW-1S	L2430219-01	V30240605A14	06/05/24 11:31
MW-2S	L2430219-02	V30240605A15	06/05/24 11:53
MW-3S	L2430219-03	V30240605A16	06/05/24 12:15
MW-4D	L2430219-04	V30240605A17	06/05/24 12:38
MW-5S	L2430219-05	V30240605A18	06/05/24 13:00
MW-6D	L2430219-06	V30240605A19	06/05/24 13:22
MW-7S	L2430219-07	V30240605A20	06/05/24 13:44
MW-8S	L2430219-08	V30240605A21	06/05/24 14:06
DUP	L2430219-09	V30240605A22	06/05/24 14:29
FB	L2430219-10	V30240605A23	06/05/24 14:51
TB	L2430219-11	V30240605A24	06/05/24 15:13
WG1930005-6MS	WG1930005-6	V30240605A27	06/05/24 16:20
WG1930005-7MSD	WG1930005-7	V30240605A28	06/05/24 16:42

Internal Standard Area and RT Summary
Form 8a
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: VOA130	**Analysis Date**	: 06/05/24 06:45:00
Sample No	: WG1930005-2	**Lab File ID**	: V30240605A01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1930005-2	517502	6.11	376477	9.67	209535	12.35
Upper Limit	1035004	6.61	752954	10.17	419070	12.85
Lower Limit	258751	5.61	188239	9.17	104768	11.85
Sample ID						
WG1930005-3 LCS	517502	6.11	376477	9.67	209535	12.35
WG1930005-4 LCSD	513735	6.12	391999	9.67	220522	12.35
WG1930005-5 BLANK	459119	6.12	361913	9.67	191060	12.35
MW-1S	430908	6.12	355446	9.67	190454	12.35
MW-2S	431180	6.12	349383	9.67	185817	12.35
MW-3S	418117	6.12	342297	9.67	181889	12.35
MW-4D	416930	6.12	341858	9.67	180661	12.35
MW-5S	407962	6.12	332233	9.67	177021	12.35
MW-6D	411306	6.12	329971	9.67	175295	12.35
MW-7S	417737	6.12	336686	9.67	177953	12.35
MW-8S	394524	6.12	320578	9.67	169243	12.35
DUP	395938	6.12	318838	9.67	169602	12.35
FB	391967	6.12	321725	9.67	168190	12.35
TB	396648	6.12	316084	9.67	164782	12.35
MW-4D MS	433748	6.12	329696	9.67	188685	12.35
MW-4D MSD	448966	6.12	334027	9.67	192708	12.35

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

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Volatile Organics - EPA 8260D (WATER)

Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	3	0.678	ug/l	70-130	20	70-130	20	20			
1,1-Dichloroethane	75-34-3	0.75	0.21	ug/l	70-130	20	70-130	20	20			
Chloroform	67-66-3	0.75	0.222	ug/l	70-130	20	70-130	20	20			
Carbon tetrachloride	56-23-5	0.5	0.134	ug/l	63-132	20	63-132	20	20			
1,2-Dichloropropane	78-87-5	1.75	0.137	ug/l	70-130	20	70-130	20	20			
Dibromochloromethane	124-48-1	0.5	0.149	ug/l	63-130	20	63-130	20	20			
1,1,2-Trichloroethane	79-00-5	0.75	0.144	ug/l	70-130	20	70-130	20	20			
Tetrachloroethene	127-18-4	0.5	0.181	ug/l	70-130	20	70-130	20	20			
Chlorobenzene	108-90-7	0.5	0.178	ug/l	75-130	25	75-130	25	25			
Trichlorofluoromethane	75-69-4	2.5	0.161	ug/l	62-150	20	62-150	20	20			
1,2-Dichloroethane	107-06-2	0.5	0.132	ug/l	70-130	20	70-130	20	20			
1,1,1-Trichloroethane	71-55-6	0.5	0.158	ug/l	67-130	20	67-130	20	20			
Bromodichloromethane	75-27-4	0.5	0.192	ug/l	67-130	20	67-130	20	20			
trans-1,3-Dichloropropene	10061-02-6	0.5	0.164	ug/l	70-130	20	70-130	20	20			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.144	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20			
1,1-Dichloropropene	563-58-6	2.5	0.24	ug/l	70-130	20	70-130	20	20			
Bromoform	75-25-2	2	0.248	ug/l	54-136	20	54-136	20	20			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.167	ug/l	67-130	20	67-130	20	20			
Benzene	71-43-2	0.5	0.159	ug/l	70-130	25	70-130	25	25			
Toluene	108-88-3	0.75	0.203	ug/l	70-130	25	70-130	25	25			
Ethylbenzene	100-41-4	0.5	0.167	ug/l	70-130	20	70-130	20	20			
Chloromethane	74-87-3	2.5	0.2	ug/l	64-130	20	64-130	20	20			
Bromomethane	74-83-9	1	0.256	ug/l	39-139	20	39-139	20	20			
Vinyl chloride	75-01-4	1	0.0714	ug/l	55-140	20	55-140	20	20			
Chloroethane	75-00-3	1	0.134	ug/l	55-138	20	55-138	20	20			
1,1-Dichloroethene	75-35-4	0.5	0.169	ug/l	61-145	25	61-145	25	25			
trans-1,2-Dichloroethene	156-60-5	0.75	0.163	ug/l	70-130	20	70-130	20	20			
1,2-Dichloroethene (total)	540-59-0	0.5	0.163	ug/l				20	20			
Trichloroethene	79-01-6	0.5	0.175	ug/l	70-130	25	70-130	25	25			
1,2-Dichlorobenzene	95-50-1	2.5	0.184	ug/l	70-130	20	70-130	20	20			
1,3-Dichlorobenzene	541-73-1	2.5	0.186	ug/l	70-130	20	70-130	20	20			
1,4-Dichlorobenzene	106-46-7	2.5	0.187	ug/l	70-130	20	70-130	20	20			
Methyl tert butyl ether	1634-04-4	1	0.166	ug/l	63-130	20	63-130	20	20			
p/m-Xylene	179601-23-1	1	0.332	ug/l	70-130	20	70-130	20	20			
o-Xylene	95-47-6	1	0.392	ug/l	70-130	20	70-130	20	20			
Xylene (Total)	1330-20-7	1	0.33	ug/l				20	20			
cis-1,2-Dichloroethene	156-59-2	0.5	0.187	ug/l	70-130	20	70-130	20	20			
Dibromomethane	74-95-3	5	0.363	ug/l	70-130	20	70-130	20	20			
1,4-Dichlorobutane	110-56-5	5	0.464	ug/l	70-130	20	70-130	20	20			
1,2,3-Trichloropropane	96-18-4	5	0.176	ug/l	64-130	20	64-130	20	20			
Styrene	100-42-5	1	0.359	ug/l	70-130	20	70-130	20	20			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
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Volatile Organics - EPA 8260D (WATER)

Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dichlorodifluoromethane	75-71-8	5	0.244	ug/l	36-147	20	36-147	20	20			
Acetone	67-64-1	5	1.46	ug/l	58-148	20	58-148	20	20			
Carbon disulfide	75-15-0	5	0.299	ug/l	51-130	20	51-130	20	20			
2-Butanone	78-93-3	5	1.94	ug/l	63-138	20	63-138	20	20			
Vinyl acetate	108-05-4	5	0.311	ug/l	70-130	20	70-130	20	20			
4-Methyl-2-pentanone	108-10-1	5	0.416	ug/l	59-130	20	59-130	20	20			
2-Hexanone	591-78-6	5	0.515	ug/l	57-130	20	57-130	20	20			
Ethyl methacrylate	97-63-2	5	0.606	ug/l	70-130	20	70-130	20	20			
Acrylonitrile	107-13-1	5	0.43	ug/l	70-130	20	70-130	20	20			
Bromochloromethane	74-97-5	2.5	0.152	ug/l	70-130	20	70-130	20	20			
Tetrahydrofuran	109-99-9	5	0.525	ug/l	58-130	20	58-130	20	20			
2,2-Dichloropropane	594-20-7	2.5	0.204	ug/l	63-133	20	63-133	20	20			
1,2-Dibromoethane	106-93-4	2	0.193	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropane	142-28-9	2.5	0.212	ug/l	70-130	20	70-130	20	20			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.164	ug/l	64-130	20	64-130	20	20			
Bromobenzene	108-86-1	2.5	0.152	ug/l	70-130	20	70-130	20	20			
n-Butylbenzene	104-51-8	0.5	0.192	ug/l	53-136	20	53-136	20	20			
sec-Butylbenzene	135-98-8	0.5	0.181	ug/l	70-130	20	70-130	20	20			
tert-Butylbenzene	98-06-6	2.5	0.196	ug/l	70-130	20	70-130	20	20			
o-Chlorotoluene	95-49-8	2.5	0.215	ug/l	70-130	20	70-130	20	20			
p-Chlorotoluene	106-43-4	2.5	0.185	ug/l	70-130	20	70-130	20	20			
1,2-Dibromo-3-chloropropane	96-12-8	2.5	0.353	ug/l	41-144	20	41-144	20	20			
Hexachlorobutadiene	87-68-3	0.5	0.217	ug/l	63-130	20	63-130	20	20			
Isopropylbenzene	98-82-8	0.5	0.187	ug/l	70-130	20	70-130	20	20			
p-Isopropyltoluene	99-87-6	0.5	0.188	ug/l	70-130	20	70-130	20	20			
Naphthalene	91-20-3	2.5	0.216	ug/l	70-130	20	70-130	20	20			
n-Propylbenzene	103-65-1	0.5	0.173	ug/l	69-130	20	69-130	20	20			
1,2,3-Trichlorobenzene	87-61-6	2.5	0.234	ug/l	70-130	20	70-130	20	20			
1,2,4-Trichlorobenzene	120-82-1	2.5	0.22	ug/l	70-130	20	70-130	20	20			
1,3,5-Trimethylbenzene	108-67-8	2.5	0.217	ug/l	64-130	20	64-130	20	20			
1,2,4-Trimethylbenzene	95-63-6	2.5	0.191	ug/l	70-130	20	70-130	20	20			
trans-1,4-Dichloro-2-butene	110-57-6	2.5	0.213	ug/l	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	2.5	0.163	ug/l	59-134	20	59-134	20	20			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

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VOCs - EPA 8260D/5035 High & Low (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - 1 Vial MeOH/2 Vial Water

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	5	2.29	ug/kg	70-130	30	70-130	30	30			
1,1-Dichloroethane	75-34-3	1	0.145	ug/kg	70-130	30	70-130	30	30			
Chloroform	67-66-3	1.5	0.14	ug/kg	70-130	30	70-130	30	30			
Carbon tetrachloride	56-23-5	1	0.23	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloropropane	78-87-5	1	0.125	ug/kg	70-130	30	70-130	30	30			
Dibromochloromethane	124-48-1	1	0.14	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloroethane	79-00-5	1	0.267	ug/kg	70-130	30	70-130	30	30			
Tetrachloroethene	127-18-4	0.5	0.196	ug/kg	70-130	30	70-130	30	30			
Chlorobenzene	108-90-7	0.5	0.127	ug/kg	70-130	30	70-130	30	30			
Trichlorofluoromethane	75-69-4	4	0.695	ug/kg	70-139	30	70-139	30	30			
1,2-Dichloroethane	107-06-2	1	0.257	ug/kg	70-130	30	70-130	30	30			
1,1,1-Trichloroethane	71-55-6	0.5	0.167	ug/kg	70-130	30	70-130	30	30			
Bromodichloromethane	75-27-4	0.5	0.109	ug/kg	70-130	30	70-130	30	30			
trans-1,3-Dichloropropene	10061-02-6	1	0.273	ug/kg	70-130	30	70-130	30	30			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.158	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropene, Total	542-75-6	0.5	0.158	ug/kg				30	30			
1,1-Dichloropropene	563-58-6	0.5	0.159	ug/kg	70-130	30	70-130	30	30			
Bromoform	75-25-2	4	0.246	ug/kg	70-130	30	70-130	30	30			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.166	ug/kg	70-130	30	70-130	30	30			
Benzene	71-43-2	0.5	0.166	ug/kg	70-130	30	70-130	30	30			
Toluene	108-88-3	1	0.543	ug/kg	70-130	30	70-130	30	30			
Ethylbenzene	100-41-4	1	0.141	ug/kg	70-130	30	70-130	30	30			
Chloromethane	74-87-3	4	0.932	ug/kg	52-130	30	52-130	30	30			
Bromomethane	74-83-9	2	0.581	ug/kg	57-147	30	57-147	30	30			
Vinyl chloride	75-01-4	1	0.335	ug/kg	67-130	30	67-130	30	30			
Chloroethane	75-00-3	2	0.452	ug/kg	50-151	30	50-151	30	30			
1,1-Dichloroethene	75-35-4	1	0.238	ug/kg	65-135	30	65-135	30	30			
trans-1,2-Dichloroethene	156-60-5	1.5	0.137	ug/kg	70-130	30	70-130	30	30			
Trichloroethene	79-01-6	0.5	0.137	ug/kg	70-130	30	70-130	30	30			
1,2-Dichlorobenzene	95-50-1	2	0.144	ug/kg	70-130	30	70-130	30	30			
1,3-Dichlorobenzene	541-73-1	2	0.148	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobenzene	106-46-7	2	0.171	ug/kg	70-130	30	70-130	30	30			
Methyl tert butyl ether	1634-04-4	2	0.201	ug/kg	66-130	30	66-130	30	30			
p/m-Xylene	179601-23-1	2	0.56	ug/kg	70-130	30	70-130	30	30			
o-Xylene	95-47-6	1	0.291	ug/kg	70-130	30	70-130	30	30			
Xylene (Total)	1330-20-7	1	0.291	ug/kg				30	30			
cis-1,2-Dichloroethene	156-59-2	1	0.175	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethene (total)	540-59-0	1	0.137	ug/kg				30	30			
Dibromomethane	74-95-3	2	0.238	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobutane	110-56-5	10	0.226	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichloropropane	96-18-4	2	0.127	ug/kg	68-130	30	68-130	30	30			
Styrene	100-42-5	1	0.196	ug/kg	70-130	30	70-130	30	30			

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VOCs - EPA 8260D/5035 High & Low (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - 1 Vial MeOH/2 Vial Water

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dichlorodifluoromethane	75-71-8	10	0.915	ug/kg	30-146	30	30-146	30	30			
Acetone	67-64-1	25	10	ug/kg	54-140	30	54-140	30	30			
Carbon disulfide	75-15-0	10	4.55	ug/kg	59-130	30	59-130	30	30			
2-Butanone	78-93-3	10	2.22	ug/kg	70-130	30	70-130	30	30			
Vinyl acetate	108-05-4	10	2.15	ug/kg	70-130	30	70-130	30	30			
4-Methyl-2-pentanone	108-10-1	10	1.28	ug/kg	70-130	30	70-130	30	30			
2-Hexanone	591-78-6	10	1.18	ug/kg	70-130	30	70-130	30	30			
Ethyl methacrylate	97-63-2	10	1.58	ug/kg	70-130	30	70-130	30	30			
Acrylonitrile	107-13-1	4	1.15	ug/kg	70-130	30	70-130	30	30			
Bromochloromethane	74-97-5	2	0.205	ug/kg	70-130	30	70-130	30	30			
Tetrahydrofuran	109-99-9	4	1.59	ug/kg	66-130	30	66-130	30	30			
2,2-Dichloropropane	594-20-7	2	0.202	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromoethane	106-93-4	1	0.279	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropane	142-28-9	2	0.167	ug/kg	69-130	30	69-130	30	30			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.132	ug/kg	70-130	30	70-130	30	30			
Bromobenzene	108-86-1	2	0.145	ug/kg	70-130	30	70-130	30	30			
n-Butylbenzene	104-51-8	1	0.167	ug/kg	70-130	30	70-130	30	30			
sec-Butylbenzene	135-98-8	1	0.146	ug/kg	70-130	30	70-130	30	30			
tert-Butylbenzene	98-06-6	2	0.118	ug/kg	70-130	30	70-130	30	30			
o-Chlorotoluene	95-49-8	2	0.191	ug/kg	70-130	30	70-130	30	30			
p-Chlorotoluene	106-43-4	2	0.108	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromo-3-chloropropane	96-12-8	3	0.998	ug/kg	68-130	30	68-130	30	30			
Hexachlorobutadiene	87-68-3	4	0.169	ug/kg	67-130	30	67-130	30	30			
Isopropylbenzene	98-82-8	1	0.109	ug/kg	70-130	30	70-130	30	30			
p-Isopropyltoluene	99-87-6	1	0.109	ug/kg	70-130	30	70-130	30	30			
Naphthalene	91-20-3	4	0.65	ug/kg	70-130	30	70-130	30	30			
n-Propylbenzene	103-65-1	1	0.171	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichlorobenzene	87-61-6	2	0.322	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trichlorobenzene	120-82-1	2	0.272	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trimethylbenzene	108-67-8	2	0.193	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trimethylbenzene	95-63-6	2	0.334	ug/kg	70-130	30	70-130	30	30			
trans-1,4-Dichloro-2-butene	110-57-6	5	1.42	ug/kg	70-130	30	70-130	30	30			
Ethyl ether	60-29-7	2	0.341	ug/kg	67-130	30	67-130	30	30			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Volatiles Sample Data

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 11:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A14	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 11:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A14	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	2.3	5.0	1.5	J
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 11:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A14	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 11:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A15	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 11:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A15	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 11:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A15	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 12:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A16	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 12:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A16	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 12:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A16	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 12:38
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A17	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	1.2	2.5	0.70	J
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 12:38
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A17	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 12:38
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A17	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 13:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A18	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 13:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A18	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 13:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A18	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 13:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A19	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 13:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A19	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 13:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A19	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 13:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A20	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 13:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A20	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 13:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A20	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 14:06
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V30240605A21	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 14:06
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V30240605A21	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 14:06
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V30240605A21	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 14:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V30240605A22	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 14:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V30240605A22	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 14:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V30240605A22	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-10	**Date Collected**	: 05/30/24 14:25
Client ID	: FB	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 14:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V30240605A23	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-10	**Date Collected**	: 05/30/24 14:25
Client ID	: FB	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 14:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V30240605A23	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-10	**Date Collected**	: 05/30/24 14:25
Client ID	: FB	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 14:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V30240605A23	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-11	**Date Collected**	: 05/30/24 00:00
Client ID	: TB	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 15:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V30240605A24	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-11	**Date Collected**	: 05/30/24 00:00
Client ID	: TB	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 15:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V30240605A24	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	1.8	5.0	1.5	J
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-11	**Date Collected**	: 05/30/24 00:00
Client ID	: TB	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 15:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V30240605A24	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1930005-5	**Date Collected**	: NA
Client ID	: WG1930005-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/05/24 08:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A05	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1930005-5	**Date Collected**	: NA
Client ID	: WG1930005-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/05/24 08:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A05	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1930005-5	**Date Collected**	: NA
Client ID	: WG1930005-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/05/24 08:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V30240605A05	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A14.D
Acq On : 05 Jun 2024 11:31 am
Operator : VOA130:PID
Sample : l2430219-01,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 05 11:54:10 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240605A\V30240605A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.115	96	430908	10.000	ug/L	0.00
Standard Area 1 = 517502			Recovery = 83.27%			
63) Chlorobenzene-d5	9.665	117	355446	10.000	ug/L	0.00
Standard Area 1 = 376477			Recovery = 94.41%			
84) 1,4-Dichlorobenzene-d4	12.349	152	190454	10.000	ug/L	0.00
Standard Area 1 = 209535			Recovery = 90.89%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.297	113	141167	11.429	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 114.29%			
47) 1,2-Dichloroethane-d4	5.822	65	159219	12.043	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 120.43%			
64) Toluene-d8	7.814	98	465064	9.979	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.79%			
88) 4-Bromofluorobenzene	11.143	95	179312	10.373	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.73%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.507	85	282	N.D.		
3) Chloromethane	0.000		0	N.D. d		
4) Vinyl chloride	1.863	62	171	N.D.		
5) Bromomethane	2.267	94	1360	0.280	ug/L	98
6) Chloroethane	0.000		0	N.D. d		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.059	76	1434	0.074	ug/L #	73
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.588	84	624	0.076	ug/L #	78
17) Acetone	3.625	43	3844	2.309	ug/L #	86
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D. d		
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	4.327	63	50	N.D.		
30) cis-1,2-Dichloroethene	4.857	96	159	N.D.		
33) Bromochloromethane	0.000		0	N.D.		
34) Cyclohexane	0.000		0	N.D.		
35) Chloroform	5.109	83	148	N.D.		
37) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A14.D
Acq On : 05 Jun 2024 11:31 am
Operator : VOA130:PID
Sample : l2430219-01,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 05 11:54:10 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240605A\V30240605A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,1,1-Trichloroethane	0.000		0	N.D.		
42) 2-Butanone	5.434	43	124	N.D.		
45) Benzene	5.691	78	3169	0.114	ug/L #	81
48) 1,2-Dichloroethane	5.895	62	185	N.D.		
51) Methyl cyclohexane	0.000		0	N.D.		
52) Trichloroethene	6.299	95	113	N.D.		
55) 1,2-Dichloropropane	0.000		0	N.D.		
58) Bromodichloromethane	0.000		0	N.D.		
61) 1,4-Dioxane	0.000		0	N.D.		
62) cis-1,3-Dichloropropene	0.000		0	N.D.		
65) Toluene	7.866	92	996	N.D.		
66) 4-Methyl-2-pentanone	0.000		0	N.D.		
67) Tetrachloroethene	8.338	166	888	0.112	ug/L #	66
69) trans-1,3-Dichloropropene	0.000		0	N.D.		
72) 1,1,2-Trichloroethane	0.000		0	N.D.		
73) Chlorodibromomethane	0.000		0	N.D.		
75) 1,2-Dibromoethane	0.000		0	N.D.		
77) 2-Hexanone	9.146	43	71	N.D.		
78) Chlorobenzene	0.000		0	N.D.		
79) Ethylbenzene	9.728	91	783	N.D.		
81) p/m Xylene	9.927	106	126	N.D.		
82) o Xylene	10.446	106	54	N.D.		
83) Styrene	0.000		0	N.D.		
85) Bromoform	0.000		0	N.D.		
87) Isopropylbenzene	0.000		0	N.D.		
92) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
105) 1,3-Dichlorobenzene	12.355	146	250	N.D.		
106) 1,4-Dichlorobenzene	12.355	146	250	N.D.		
109) 1,2-Dichlorobenzene	0.000		0	N.D.		
111) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
114) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
116) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

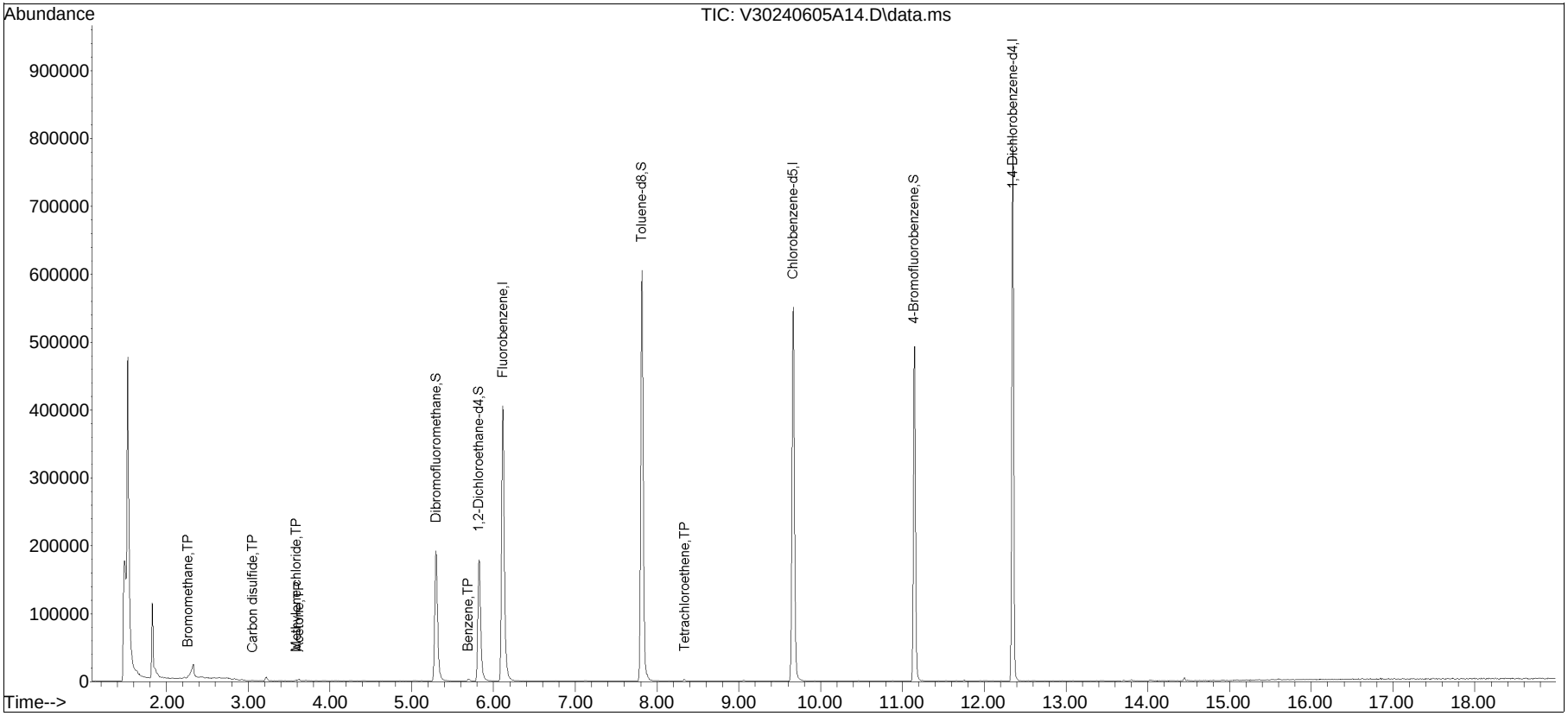
(#) = qualifier out of range (m) = manual integration (+) = signals summed

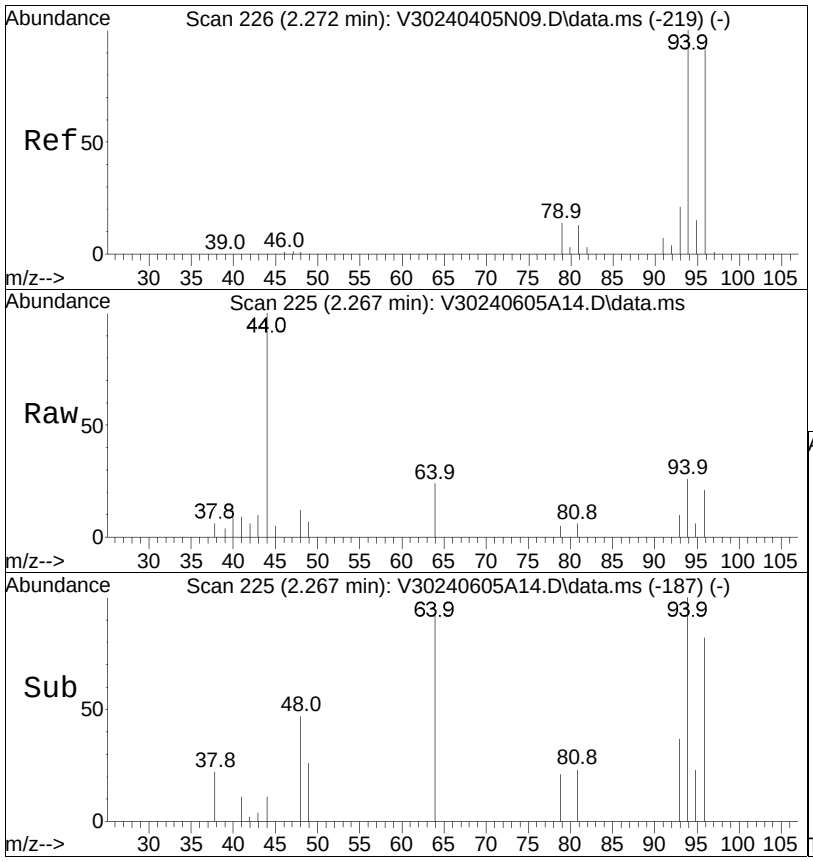
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A14.D
Acq On : 05 Jun 2024 11:31 am
Operator : VOA130:PID
Sample : l2430219-01,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 05 11:54:10 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

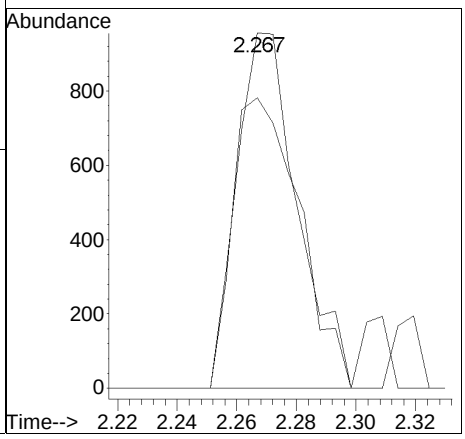


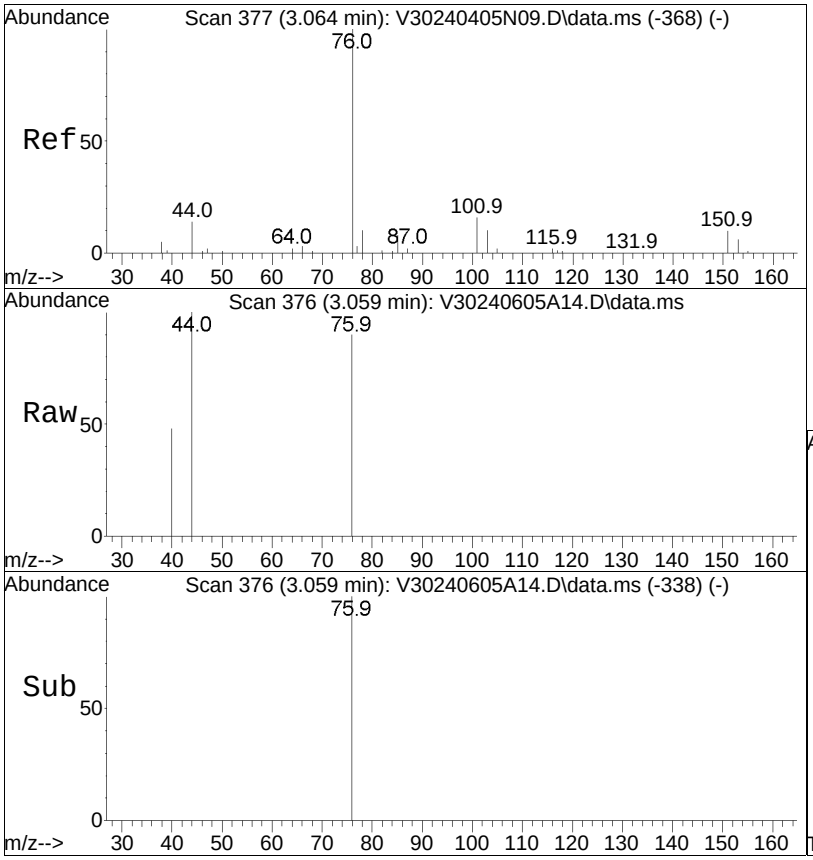


#5
Bromomethane
Concen: 0.28 ug/L
RT: 2.267 min Scan# 225
Delta R.T. -0.000 min
Lab File: V30240605A14.D
Acq: 05 Jun 2024 11:31 am

Tgt Ion: 94 Resp: 1360

Ion	Ratio	Lower	Upper
94	100		
96	90.3	73.7	110.5

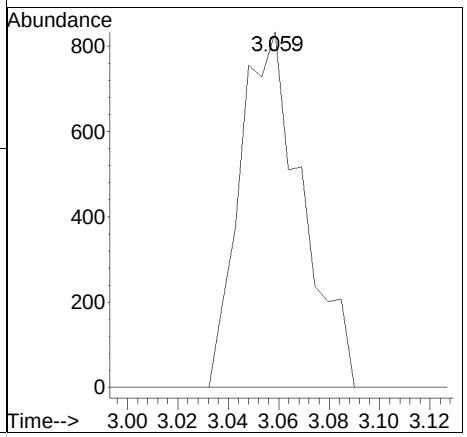


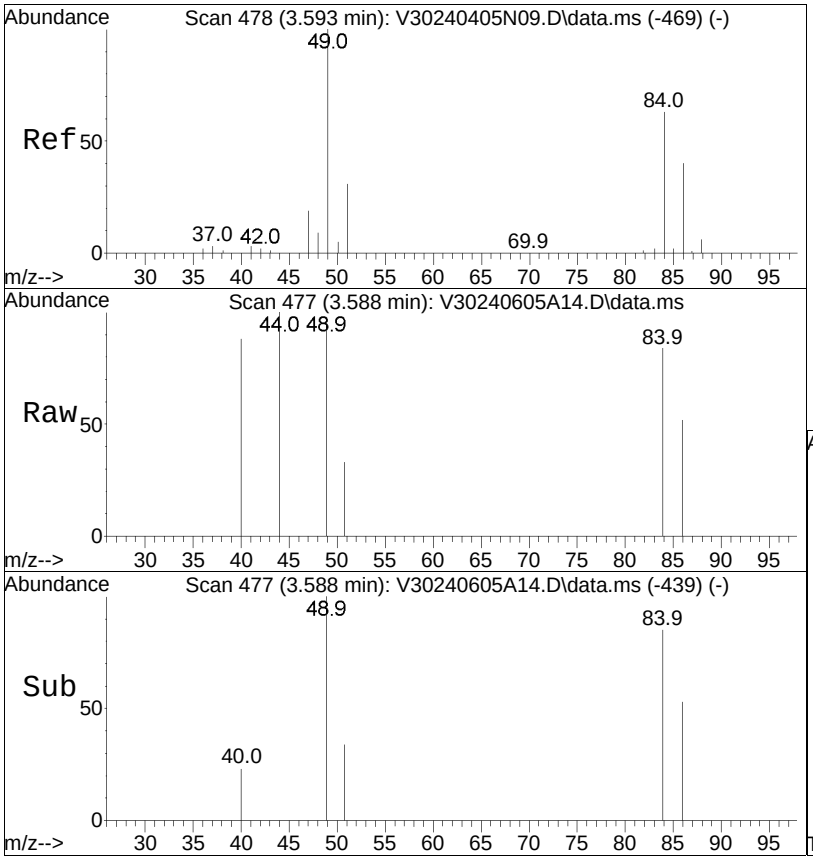


#11
Carbon disulfide
Concen: 0.07 ug/L
RT: 3.059 min Scan# 376
Delta R.T. 0.001 min
Lab File: V30240605A14.D
Acq: 05 Jun 2024 11:31 am

Tgt Ion: 76 Resp: 1434

Ion	Ratio	Lower	Upper
76	100		
78	0.0	6.4	13.4#

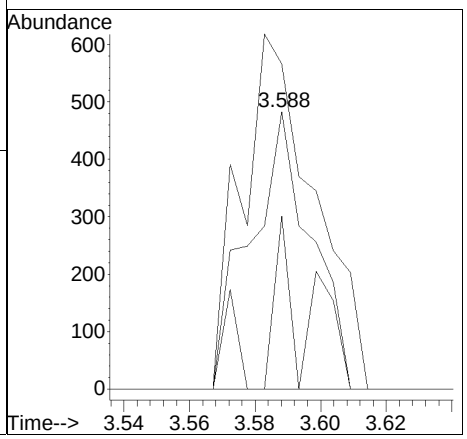


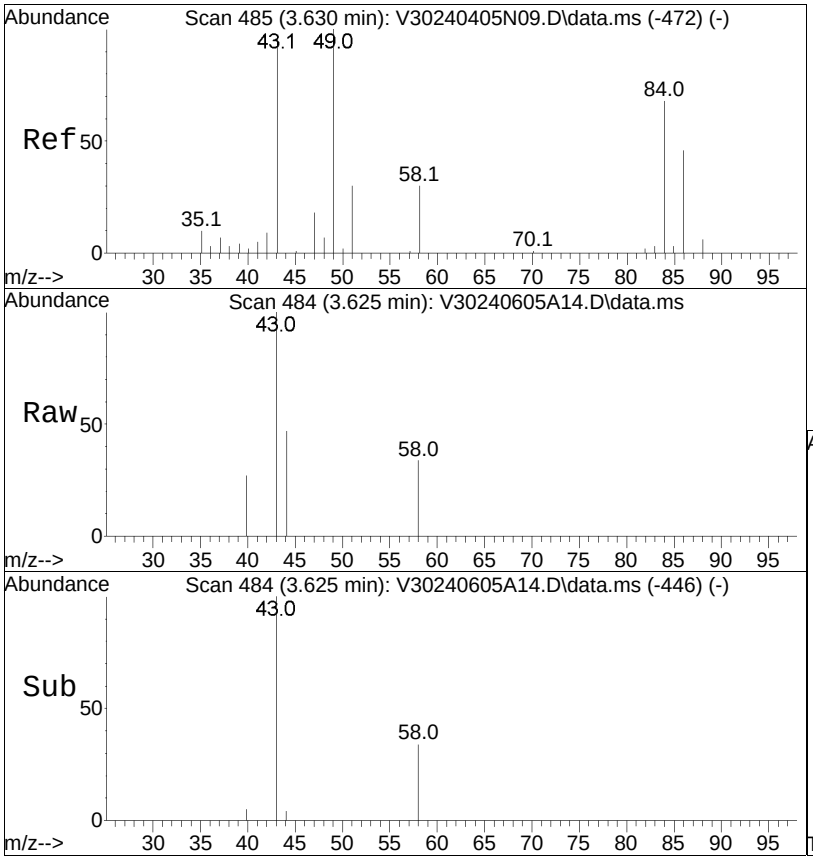


#15
Methylene chloride
Concen: 0.08 ug/L
RT: 3.588 min Scan# 477
Delta R.T. 0.000 min
Lab File: V30240605A14.D
Acq: 05 Jun 2024 11:31 am

Tgt Ion: 84 Resp: 624

Ion	Ratio	Lower	Upper
84	100		
86	15.2	41.7	86.5#
49	152.2	103.9	215.9

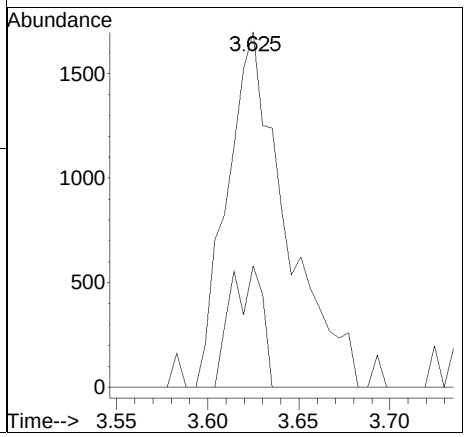


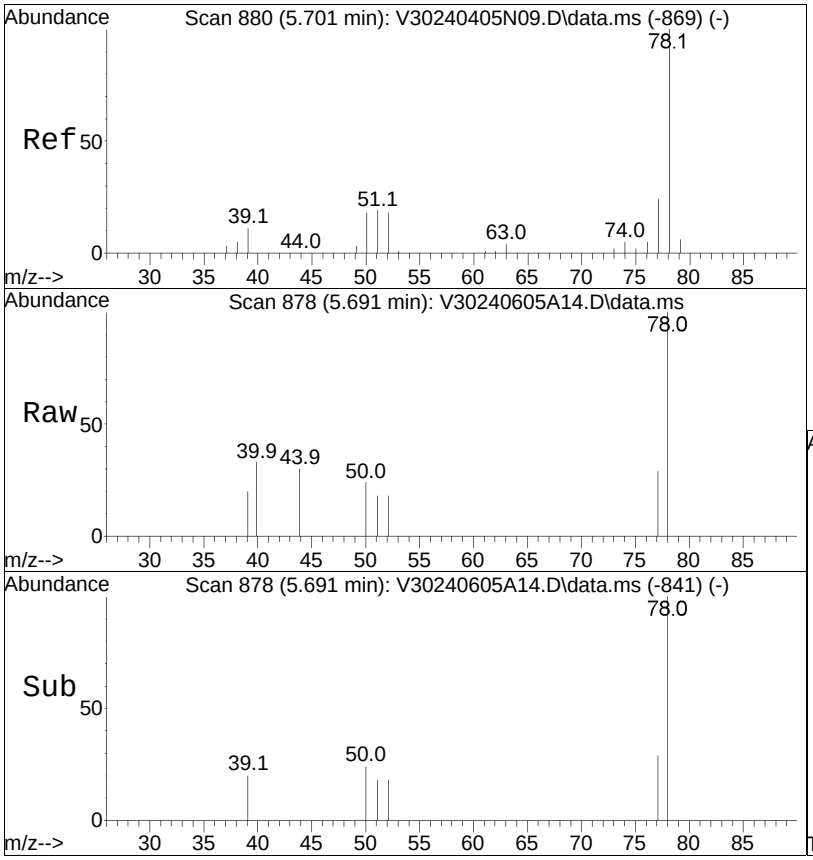


#17
Acetone
Concen: 2.31 ug/L
RT: 3.625 min Scan# 484
Delta R.T. -0.000 min
Lab File: V30240605A14.D
Acq: 05 Jun 2024 11:31 am

Tgt Ion: 43 Resp: 3844

Ion	Ratio	Lower	Upper
43	100		
58	18.2	20.1	30.1#

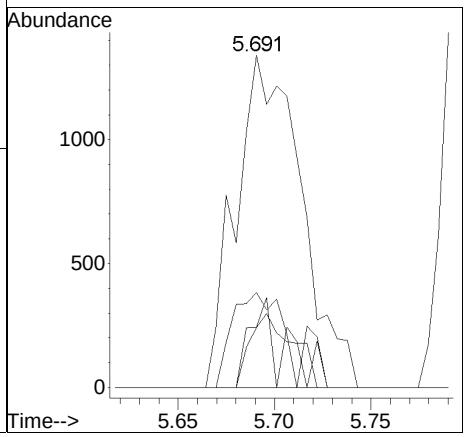


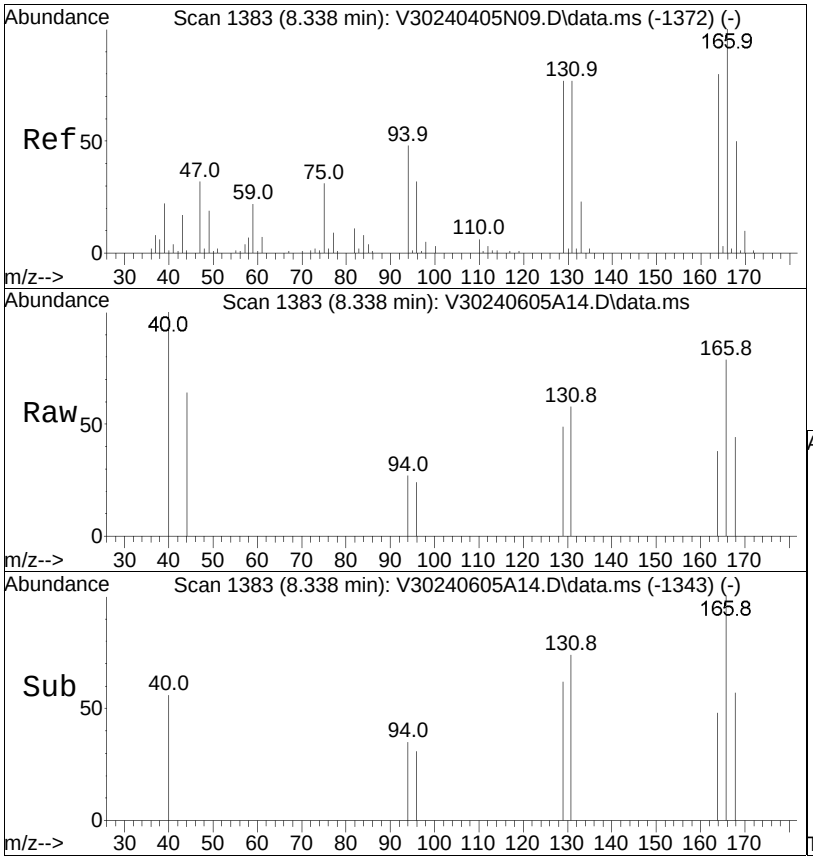


#45
Benzene
Concen: 0.11 ug/L
RT: 5.691 min Scan# 878
Delta R.T. -0.005 min
Lab File: V30240605A14.D
Acq: 05 Jun 2024 11:31 am

Tgt Ion: 78 Resp: 3169

Ion	Ratio	Lower	Upper
78	100		
77	21.0	15.6	32.4
51	0.0	12.9	26.7#
52	14.5	12.4	25.7

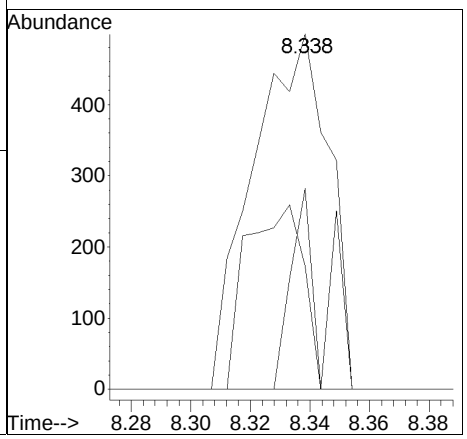




#67
Tetrachloroethene
Concen: 0.11 ug/L
RT: 8.338 min Scan# 1383
Delta R.T. 0.010 min
Lab File: V30240605A14.D
Acq: 05 Jun 2024 11:31 am

Tgt Ion:166 Resp: 888

Ion	Ratio	Lower	Upper
166	100		
168	15.4	38.6	58.0#
94	38.7	42.6	63.8#



Manual Integration Report

Data Path	: K:\VOA130\2024\240605A\	QMethod	: V130_240429A_8260D.m
Data File	: V30240605A14.D	Operator	: VOA130:PID
Date Inj'd	: 6/5/2024 11:31 am	Instrument	: VOA130
Sample	: l2430219-01,31,10,10,,a	Quant Date	: 6/5/2024 11:53 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A15.D
Acq On : 05 Jun 2024 11:53 am
Operator : VOA130:PID
Sample : l2430219-02,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 05 12:19:33 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240605A\V30240605A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.115	96	431180	10.000 ug/L	0.00
Standard Area 1 = 517502			Recovery = 83.32%		
63) Chlorobenzene-d5	9.665	117	349383	10.000 ug/L	0.00
Standard Area 1 = 376477			Recovery = 92.80%		
84) 1,4-Dichlorobenzene-d4	12.349	152	185817	10.000 ug/L	0.00
Standard Area 1 = 209535			Recovery = 88.68%		
System Monitoring Compounds					
39) Dibromofluoromethane	5.297	113	142250	11.509 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.09%		
47) 1,2-Dichloroethane-d4	5.822	65	162027	12.248 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 122.48%		
64) Toluene-d8	7.814	98	462216	10.090 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.90%		
88) 4-Bromofluorobenzene	11.149	95	174446	10.344 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.44%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	1.863	50	238	N.D.	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	2.267	94	309	N.D.	
6) Chloroethane	2.314	64	100	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	0.000		0	N.D.	
11) Carbon disulfide	3.058	76	1012	N.D.	
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	3.598	84	479	N.D.	
17) Acetone	0.000		0	N.D.	d
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
19) Methyl acetate	3.756	43	53	N.D.	
21) Methyl tert-butyl ether	0.000		0	N.D.	
25) 1,1-Dichloroethane	0.000		0	N.D.	
30) cis-1,2-Dichloroethene	0.000		0	N.D.	
33) Bromochloromethane	0.000		0	N.D.	
34) Cyclohexane	0.000		0	N.D.	
35) Chloroform	0.000		0	N.D.	
37) Carbon tetrachloride	0.000		0	N.D.	

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A15.D
Acq On : 05 Jun 2024 11:53 am
Operator : VOA130:PID
Sample : l2430219-02,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 05 12:19:33 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240605A\V30240605A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,1,1-Trichloroethane	0.000		0		N.D.	
42) 2-Butanone	0.000		0		N.D.	
45) Benzene	0.000		0		N.D.	
48) 1,2-Dichloroethane	5.890	62	53		N.D.	
51) Methyl cyclohexane	0.000		0		N.D.	
52) Trichloroethene	6.225	95	119		N.D.	
55) 1,2-Dichloropropane	0.000		0		N.D.	
58) Bromodichloromethane	0.000		0		N.D.	
61) 1,4-Dioxane	0.000		0		N.D.	
62) cis-1,3-Dichloropropene	0.000		0		N.D.	
65) Toluene	0.000		0		N.D.	
66) 4-Methyl-2-pentanone	0.000		0		N.D.	
67) Tetrachloroethene	0.000		0		N.D.	
69) trans-1,3-Dichloropropene	0.000		0		N.D.	
72) 1,1,2-Trichloroethane	0.000		0		N.D.	
73) Chlorodibromomethane	0.000		0		N.D.	
75) 1,2-Dibromoethane	0.000		0		N.D.	
77) 2-Hexanone	0.000		0		N.D.	
78) Chlorobenzene	0.000		0		N.D.	
79) Ethylbenzene	9.665	91	777		N.D.	
81) p/m Xylene	0.000		0		N.D.	
82) o Xylene	0.000		0		N.D.	
83) Styrene	0.000		0		N.D.	
85) Bromoform	0.000		0		N.D.	
87) Isopropylbenzene	0.000		0		N.D.	
92) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
105) 1,3-Dichlorobenzene	12.349	146	47		N.D.	
106) 1,4-Dichlorobenzene	12.370	146	53		N.D.	
109) 1,2-Dichlorobenzene	0.000		0		N.D.	
111) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
114) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
116) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

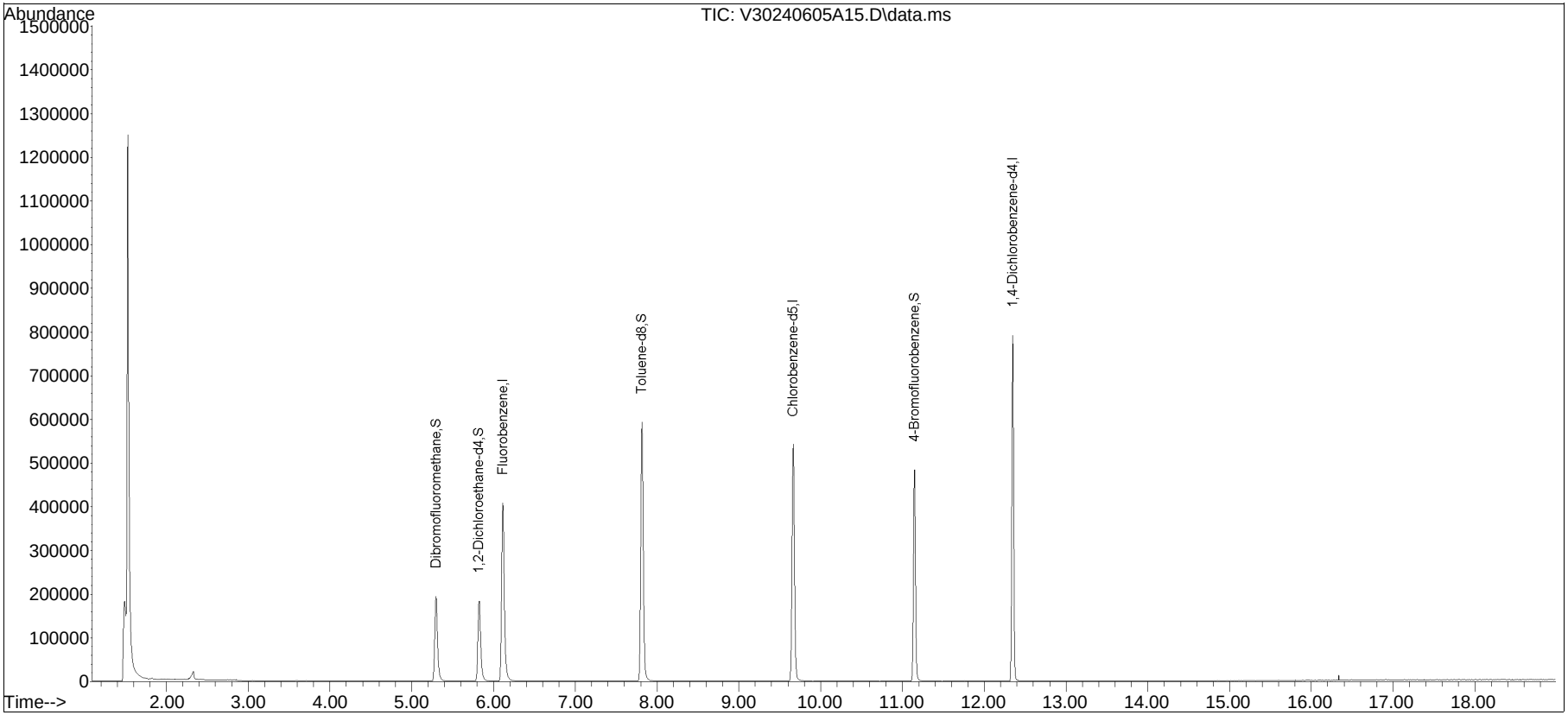
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A15.D
Acq On : 05 Jun 2024 11:53 am
Operator : VOA130:PID
Sample : l2430219-02,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 05 12:19:33 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane



Manual Integration Report

Data Path	: K:\VOA130\2024\240605A\	QMethod	: V130_240429A_8260D.m
Data File	: V30240605A15.D	Operator	: VOA130:PID
Date Inj'd	: 6/5/2024 11:53 am	Instrument	: VOA130
Sample	: l2430219-02,31,10,10,,a	Quant Date	: 6/5/2024 12:19 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A16.D
Acq On : 05 Jun 2024 12:15 pm
Operator : VOA130:PID
Sample : l2430219-03,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 05 12:48:21 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240605A\V30240605A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.115	96	418117	10.000	ug/L	0.00
Standard Area 1 = 517502			Recovery =	80.80%		
63) Chlorobenzene-d5	9.665	117	342297	10.000	ug/L	0.00
Standard Area 1 = 376477			Recovery =	90.92%		
84) 1,4-Dichlorobenzene-d4	12.349	152	181889	10.000	ug/L	0.00
Standard Area 1 = 209535			Recovery =	86.81%		
System Monitoring Compounds						
39) Dibromofluoromethane	5.292	113	135628	11.317	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	113.17%		
47) 1,2-Dichloroethane-d4	5.827	65	154105	12.013	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	120.13%		
64) Toluene-d8	7.814	98	447657	9.974	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.74%		
88) 4-Bromofluorobenzene	11.148	95	170358	10.319	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.19%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.863	50	116	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.261	94	181	N.D.		
6) Chloroethane	2.345	64	170	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.058	76	943	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.593	84	406	N.D.		
17) Acetone	3.624	43	1068	0.661	ug/L #	72
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.750	43	170	N.D.		
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	4.940	96	158	N.D.		
33) Bromochloromethane	0.000		0	N.D.		
34) Cyclohexane	0.000		0	N.D.		
35) Chloroform	5.119	83	1135	0.085	ug/L #	84
37) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A16.D
Acq On : 05 Jun 2024 12:15 pm
Operator : VOA130:PID
Sample : l2430219-03,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 05 12:48:21 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240605A\V30240605A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,1,1-Trichloroethane	0.000		0		N.D.	
42) 2-Butanone	0.000		0		N.D.	
45) Benzene	0.000		0		N.D.	
48) 1,2-Dichloroethane	0.000		0		N.D.	
51) Methyl cyclohexane	0.000		0		N.D.	
52) Trichloroethene	6.199	95	366		N.D.	
55) 1,2-Dichloropropane	0.000		0		N.D.	
58) Bromodichloromethane	0.000		0		N.D.	
61) 1,4-Dioxane	0.000		0		N.D.	
62) cis-1,3-Dichloropropene	0.000		0		N.D.	
65) Toluene	0.000		0		N.D.	
66) 4-Methyl-2-pentanone	0.000		0		N.D.	
67) Tetrachloroethene	0.000		0		N.D.	
69) trans-1,3-Dichloropropene	0.000		0		N.D.	
72) 1,1,2-Trichloroethane	0.000		0		N.D.	
73) Chlorodibromomethane	0.000		0		N.D.	
75) 1,2-Dibromoethane	0.000		0		N.D.	
77) 2-Hexanone	0.000		0		N.D.	
78) Chlorobenzene	0.000		0		N.D.	
79) Ethylbenzene	9.659	91	617		N.D.	
81) p/m Xylene	0.000		0		N.D.	
82) o Xylene	0.000		0		N.D.	
83) Styrene	0.000		0		N.D.	
85) Bromoform	0.000		0		N.D.	
87) Isopropylbenzene	0.000		0		N.D.	
92) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
105) 1,3-Dichlorobenzene	0.000		0		N.D.	
106) 1,4-Dichlorobenzene	0.000		0		N.D.	
109) 1,2-Dichlorobenzene	0.000		0		N.D.	
111) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
114) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
116) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

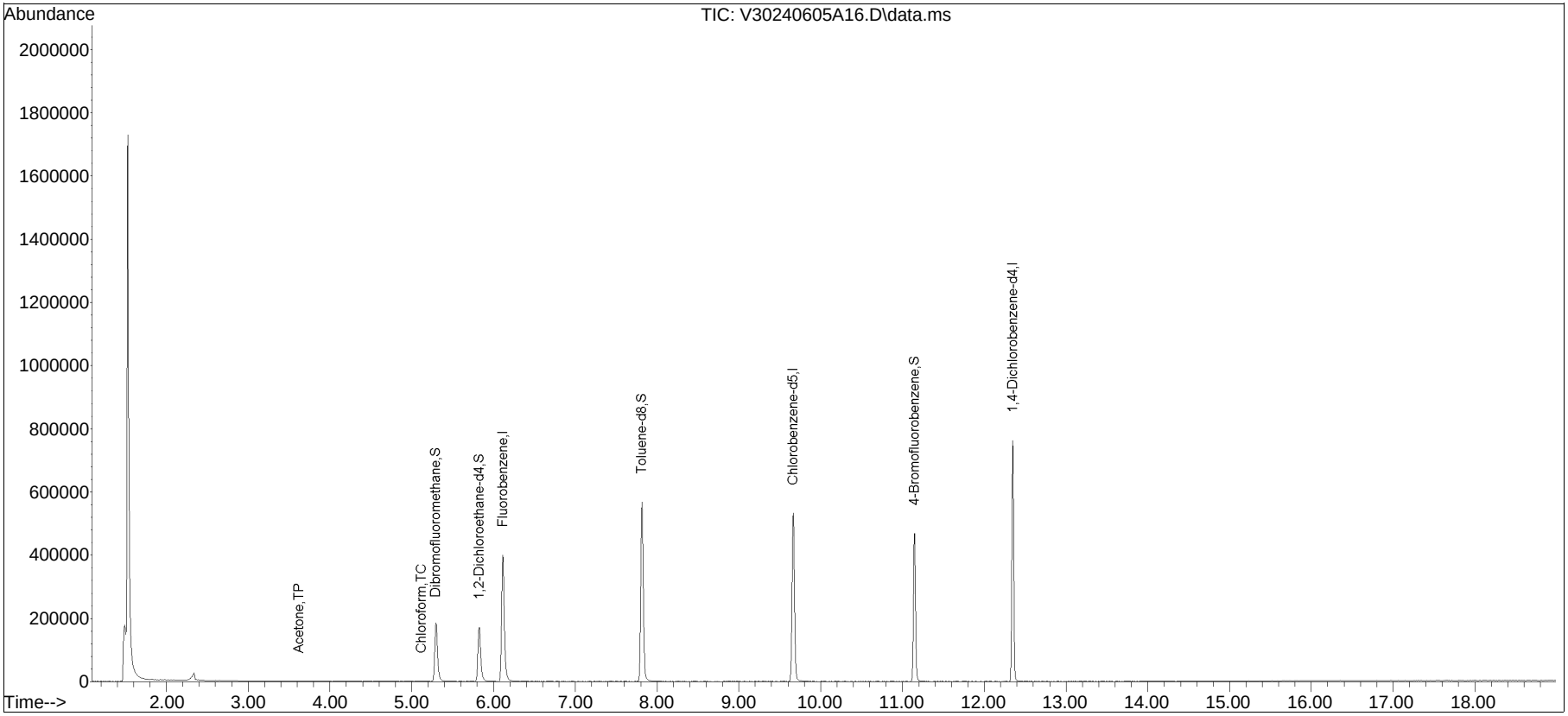
(#) = qualifier out of range (m) = manual integration (+) = signals summed

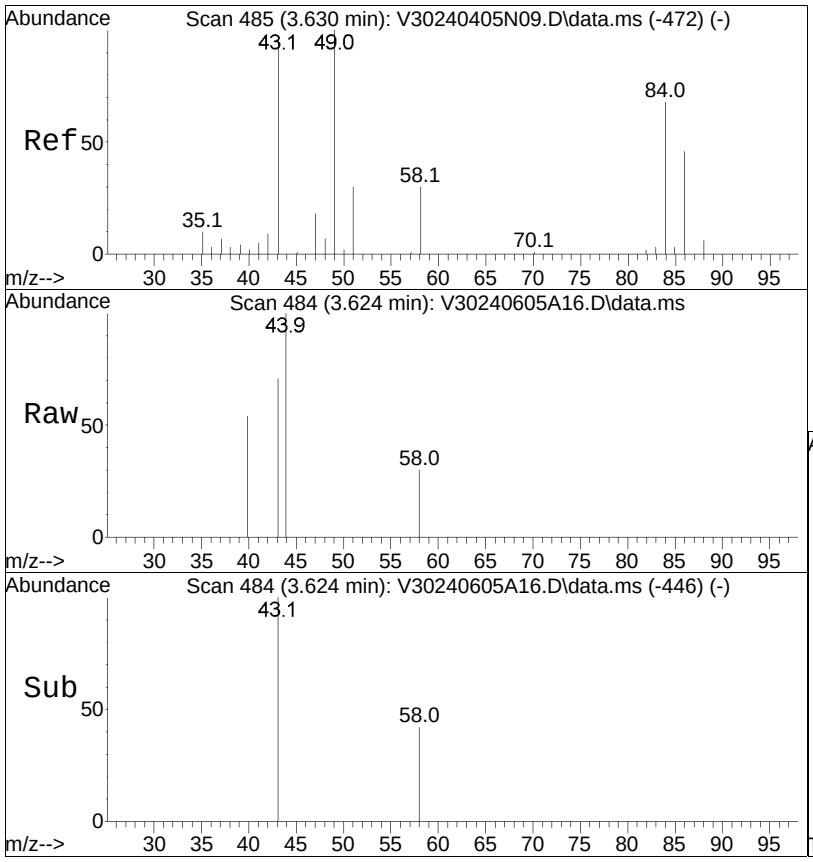
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A16.D
Acq On : 05 Jun 2024 12:15 pm
Operator : VOA130:PID
Sample : l2430219-03,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 05 12:48:21 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

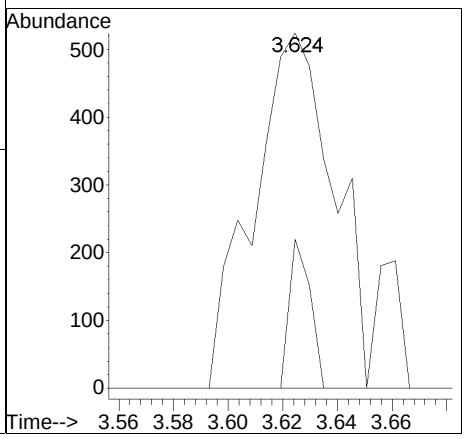


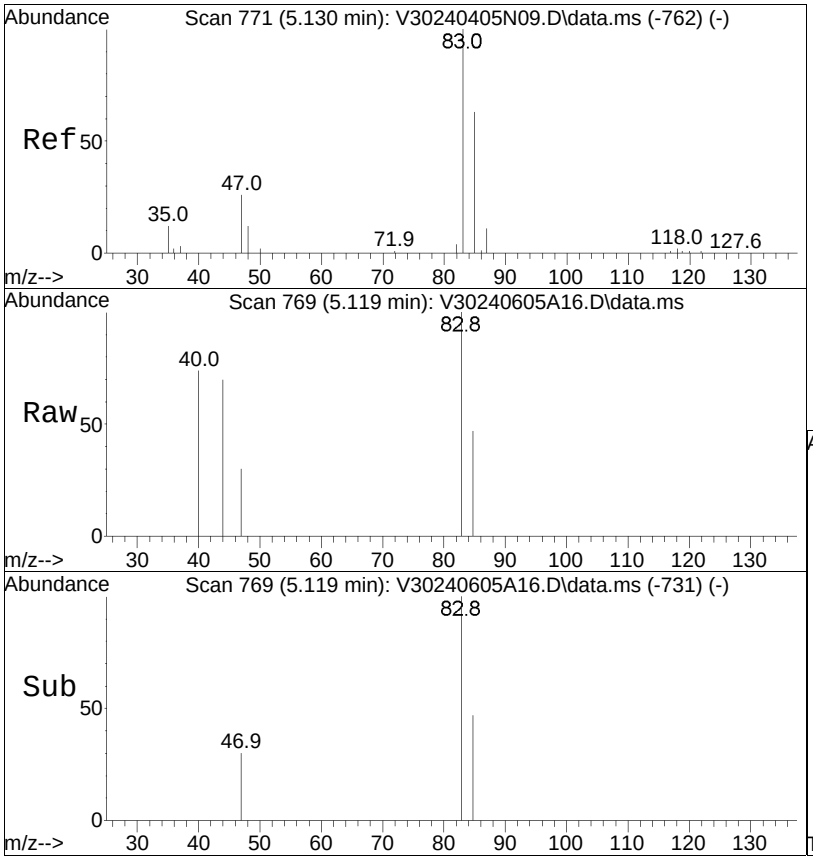


#17
Acetone
Concen: 0.66 ug/L
RT: 3.624 min Scan# 484
Delta R.T. -0.001 min
Lab File: V30240605A16.D
Acq: 05 Jun 2024 12:15 pm

Tgt Ion: 43 Resp: 1068

Ion	Ratio	Lower	Upper
43	100		
58	11.0	20.1	30.1#

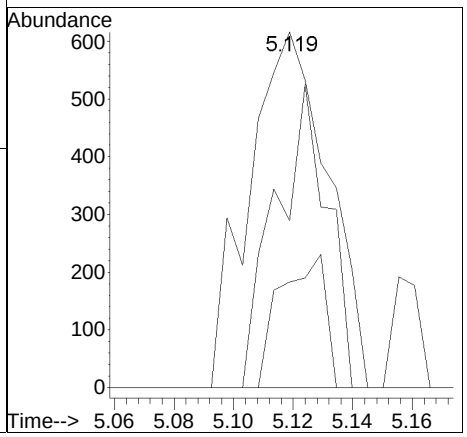




#35
Chloroform
Concen: 0.08 ug/L
RT: 5.119 min Scan# 769
Delta R.T. -0.000 min
Lab File: V30240605A16.D
Acq: 05 Jun 2024 12:15 pm

Tgt Ion: 83 Resp: 1135

Ion	Ratio	Lower	Upper
83	100		
85	55.8	41.4	86.0
47	21.4	20.5	42.5
48	0.0	9.9	20.5#



Manual Integration Report

Data Path	: K:\VOA130\2024\240605A\	QMethod	: V130_240429A_8260D.m
Data File	: V30240605A16.D	Operator	: VOA130:PID
Date Inj'd	: 6/5/2024 12:15 pm	Instrument	: VOA130
Sample	: l2430219-03,31,10,10,,a	Quant Date	: 6/5/2024 12:48 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A17.D
Acq On : 05 Jun 2024 12:38 pm
Operator : VOA130:PID
Sample : l2430219-04,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 05 13:21:50 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240605A\V30240605A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.115	96	416930	10.000	ug/L	0.00
Standard Area 1 = 517502			Recovery = 80.57%			
63) Chlorobenzene-d5	9.665	117	341858	10.000	ug/L	0.00
Standard Area 1 = 376477			Recovery = 90.80%			
84) 1,4-Dichlorobenzene-d4	12.349	152	180661	10.000	ug/L	0.00
Standard Area 1 = 209535			Recovery = 86.22%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.297	113	136923	11.457	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 114.57%			
47) 1,2-Dichloroethane-d4	5.822	65	159049	12.434	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 124.34%			
64) Toluene-d8	7.814	98	443570	9.896	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.96%			
88) 4-Bromofluorobenzene	11.149	95	168280	10.263	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.63%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.879	50	122	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.340	94	55	N.D.		
6) Chloroethane	2.330	64	148	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.048	76	902	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.583	84	343	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.761	43	105	N.D.		
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
33) Bromochloromethane	0.000		0	N.D.		
34) Cyclohexane	0.000		0	N.D.		
35) Chloroform	5.114	83	16451	1.229	ug/L	96
37) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A17.D
Acq On : 05 Jun 2024 12:38 pm
Operator : VOA130:PID
Sample : l2430219-04,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 05 13:21:50 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240605A\V30240605A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,1,1-Trichloroethane	0.000		0			N.D.
42) 2-Butanone	0.000		0			N.D.
45) Benzene	5.706	78	50			N.D.
48) 1,2-Dichloroethane	0.000		0			N.D.
51) Methyl cyclohexane	0.000		0			N.D.
52) Trichloroethene	0.000		0			N.D.
55) 1,2-Dichloropropane	0.000		0			N.D.
58) Bromodichloromethane	0.000		0			N.D.
61) 1,4-Dioxane	0.000		0			N.D.
62) cis-1,3-Dichloropropene	0.000		0			N.D.
65) Toluene	0.000		0			N.D.
66) 4-Methyl-2-pentanone	0.000		0			N.D.
67) Tetrachloroethene	0.000		0			N.D.
69) trans-1,3-Dichloropropene	0.000		0			N.D.
72) 1,1,2-Trichloroethane	0.000		0			N.D.
73) Chlorodibromomethane	0.000		0			N.D.
75) 1,2-Dibromoethane	0.000		0			N.D.
77) 2-Hexanone	0.000		0			N.D.
78) Chlorobenzene	0.000		0			N.D.
79) Ethylbenzene	9.665	91	686			N.D.
81) p/m Xylene	0.000		0			N.D.
82) o Xylene	0.000		0			N.D.
83) Styrene	0.000		0			N.D.
85) Bromoform	0.000		0			N.D.
87) Isopropylbenzene	0.000		0			N.D.
92) 1,1,2,2-Tetrachloroethane	0.000		0			N.D.
105) 1,3-Dichlorobenzene	12.365	146	51			N.D.
106) 1,4-Dichlorobenzene	12.365	146	51			N.D.
109) 1,2-Dichlorobenzene	0.000		0			N.D.
111) 1,2-Dibromo-3-chloropr...	0.000		0			N.D.
114) 1,2,4-Trichlorobenzene	0.000		0			N.D.
116) 1,2,3-Trichlorobenzene	0.000		0			N.D.

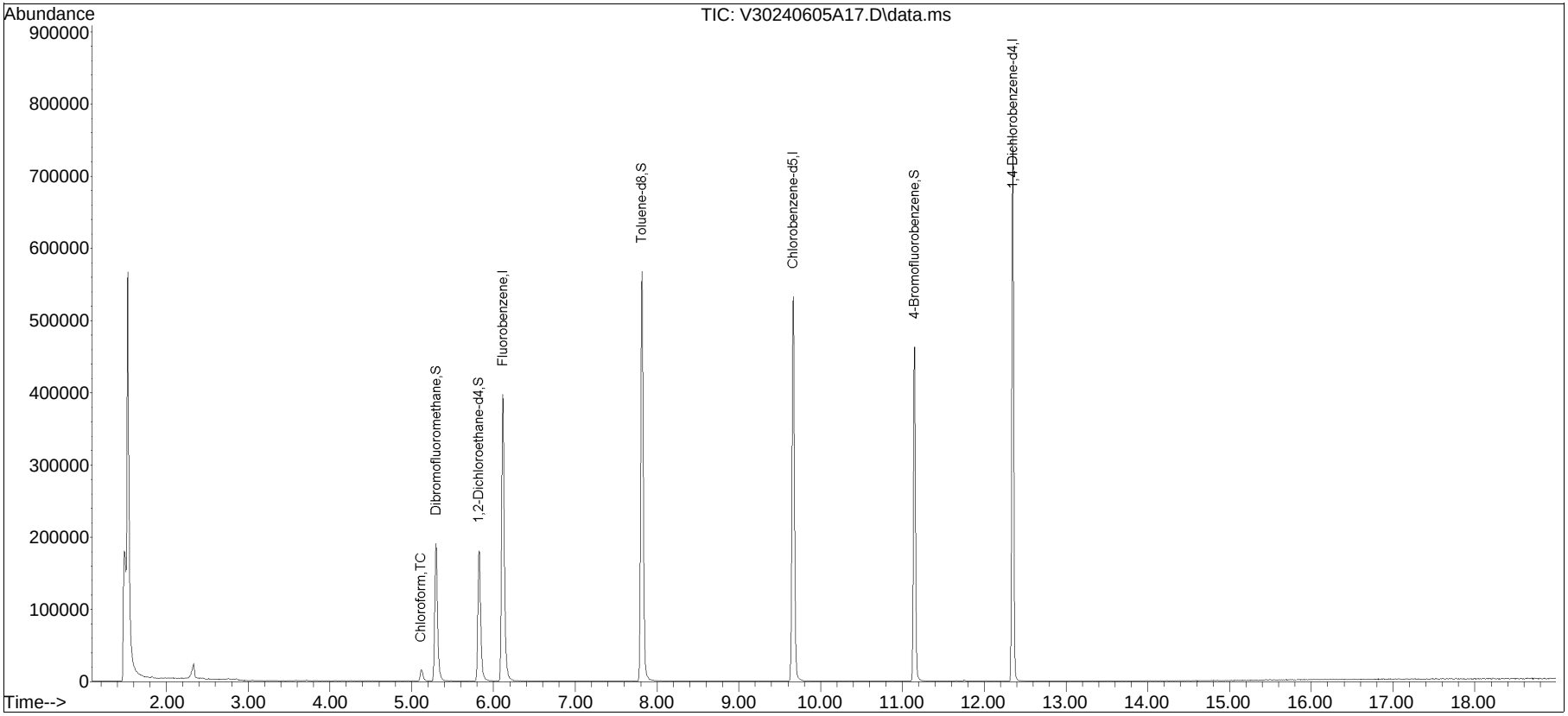
(#) = qualifier out of range (m) = manual integration (+) = signals summed

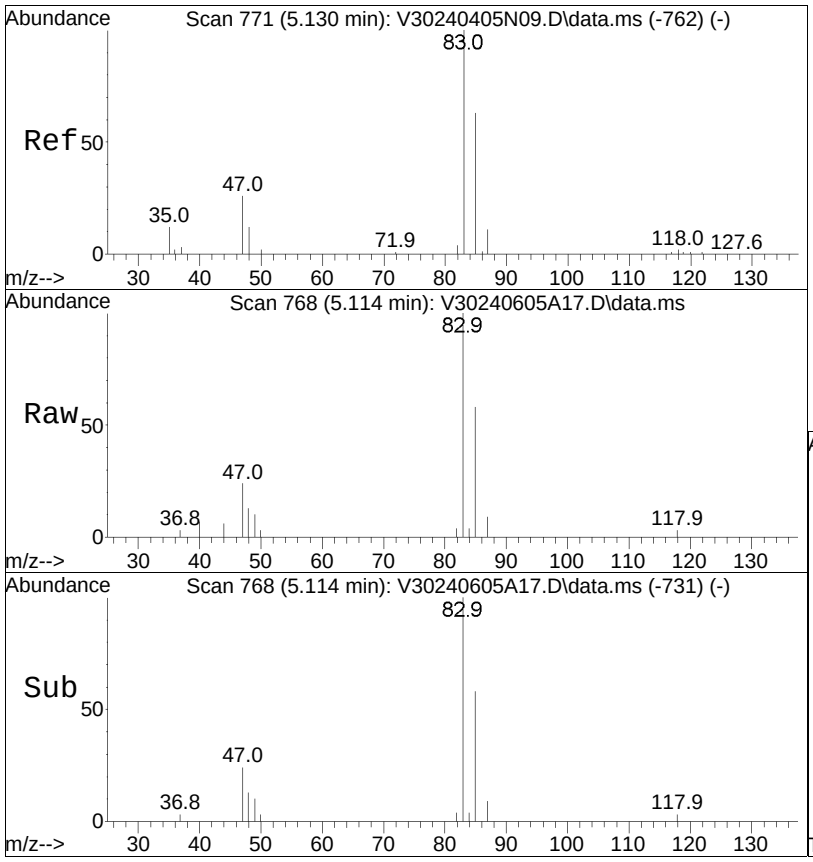
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A17.D
Acq On : 05 Jun 2024 12:38 pm
Operator : VOA130:PID
Sample : l2430219-04,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 05 13:21:50 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

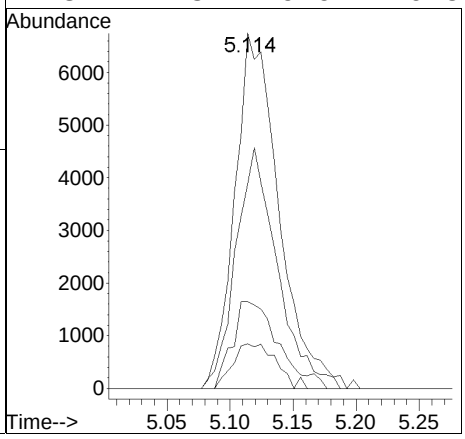




#35
Chloroform
Concen: 1.23 ug/L
RT: 5.114 min Scan# 768
Delta R.T. -0.005 min
Lab File: V30240605A17.D
Acq: 05 Jun 2024 12:38 pm

Tgt Ion: 83 Resp: 16451

Ion	Ratio	Lower	Upper
83	100		
85	63.7	41.4	86.0
47	25.5	20.5	42.5
48	12.3	9.9	20.5



Manual Integration Report

Data Path	: K:\VOA130\2024\240605A\	QMethod	: V130_240429A_8260D.m
Data File	: V30240605A17.D	Operator	: VOA130:PID
Date Inj'd	: 6/5/2024 12:38 pm	Instrument	: VOA130
Sample	: l2430219-04,31,10,10,,a	Quant Date	: 6/5/2024 1:21 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A18.D
Acq On : 05 Jun 2024 01:00 pm
Operator : VOA130:PID
Sample : l2430219-05,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 05 13:22:15 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240605A\V30240605A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.115	96	407962	10.000	ug/L	0.00
Standard Area 1 = 517502			Recovery = 78.83%			
63) Chlorobenzene-d5	9.665	117	332233	10.000	ug/L	0.00
Standard Area 1 = 376477			Recovery = 88.25%			
84) 1,4-Dichlorobenzene-d4	12.349	152	177021	10.000	ug/L	0.00
Standard Area 1 = 209535			Recovery = 84.48%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.297	113	133703	11.434	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 114.34%			
47) 1,2-Dichloroethane-d4	5.822	65	154894	12.375	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 123.75%			
64) Toluene-d8	7.814	98	426385	9.788	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.88%			
88) 4-Bromofluorobenzene	11.144	95	163618	10.184	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.84%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	452	N.D.		
3) Chloromethane	1.874	50	136	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.267	94	117	N.D.		
6) Chloroethane	2.330	64	200	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.048	76	943	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.588	84	502	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.751	43	114	N.D.		
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	4.941	96	109	N.D.		
33) Bromochloromethane	0.000		0	N.D.		
34) Cyclohexane	0.000		0	N.D.		
35) Chloroform	5.124	83	1007	0.077	ug/L #	71
37) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A18.D
Acq On : 05 Jun 2024 01:00 pm
Operator : VOA130:PID
Sample : l2430219-05,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 05 13:22:15 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240605A\V30240605A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,1,1-Trichloroethane	0.000		0		N.D.	
42) 2-Butanone	0.000		0		N.D.	
45) Benzene	0.000		0		N.D.	
48) 1,2-Dichloroethane	0.000		0		N.D.	
51) Methyl cyclohexane	0.000		0		N.D.	
52) Trichloroethene	6.278	95	52		N.D.	
55) 1,2-Dichloropropane	0.000		0		N.D.	
58) Bromodichloromethane	0.000		0		N.D.	
61) 1,4-Dioxane	0.000		0		N.D.	
62) cis-1,3-Dichloropropene	0.000		0		N.D.	
65) Toluene	0.000		0		N.D.	
66) 4-Methyl-2-pentanone	0.000		0		N.D.	
67) Tetrachloroethene	0.000		0		N.D.	
69) trans-1,3-Dichloropropene	0.000		0		N.D.	
72) 1,1,2-Trichloroethane	0.000		0		N.D.	
73) Chlorodibromomethane	0.000		0		N.D.	
75) 1,2-Dibromoethane	0.000		0		N.D.	
77) 2-Hexanone	0.000		0		N.D.	
78) Chlorobenzene	0.000		0		N.D.	
79) Ethylbenzene	9.655	91	595		N.D.	
81) p/m Xylene	0.000		0		N.D.	
82) o Xylene	0.000		0		N.D.	
83) Styrene	0.000		0		N.D.	
85) Bromoform	0.000		0		N.D.	
87) Isopropylbenzene	0.000		0		N.D.	
92) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
105) 1,3-Dichlorobenzene	0.000		0		N.D.	
106) 1,4-Dichlorobenzene	0.000		0		N.D.	
109) 1,2-Dichlorobenzene	0.000		0		N.D.	
111) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
114) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
116) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

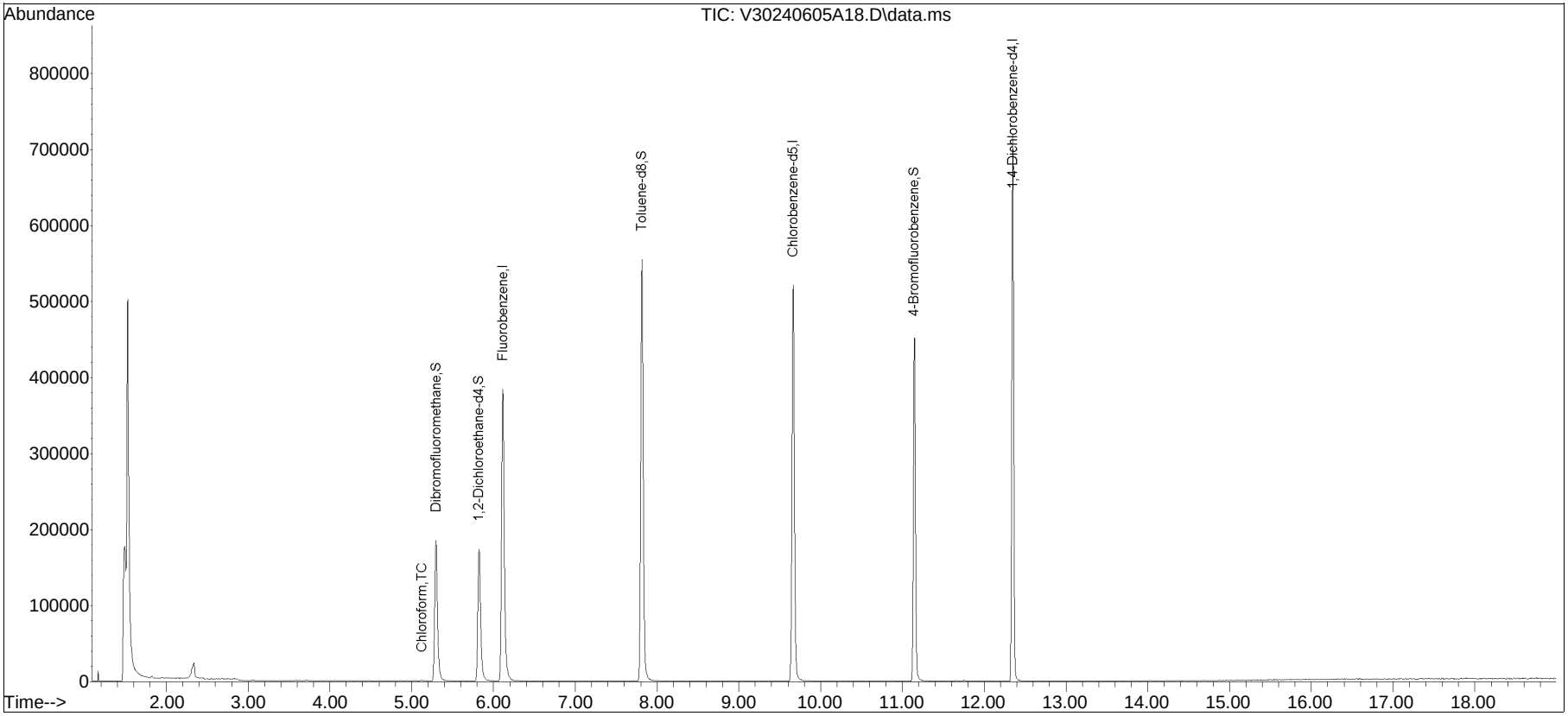
(#) = qualifier out of range (m) = manual integration (+) = signals summed

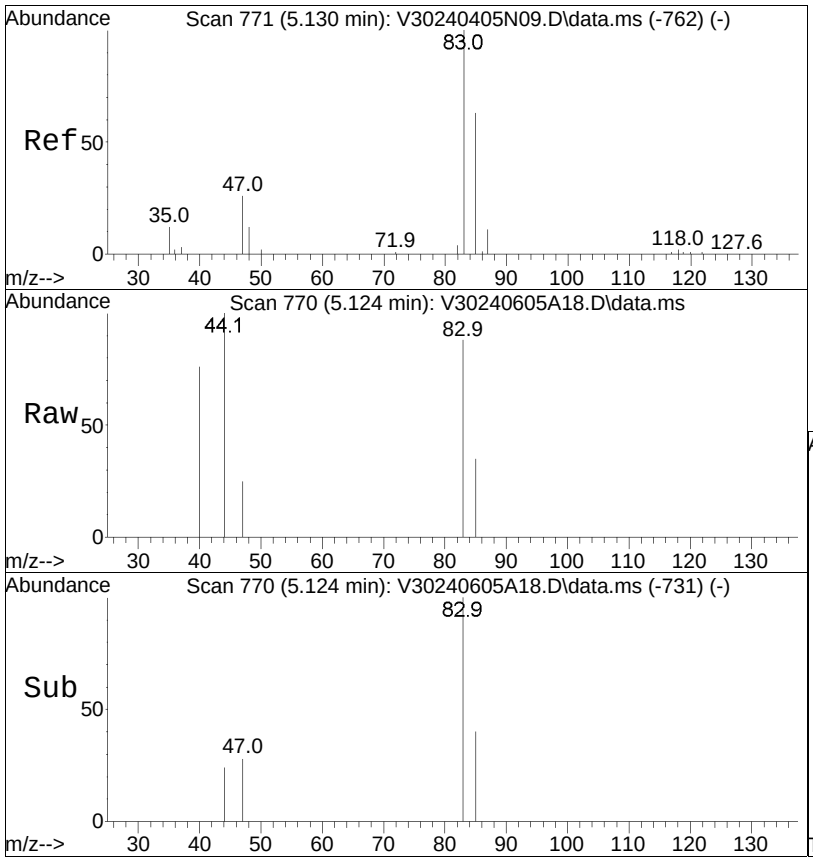
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A18.D
Acq On : 05 Jun 2024 01:00 pm
Operator : VOA130:PID
Sample : l2430219-05,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 05 13:22:15 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

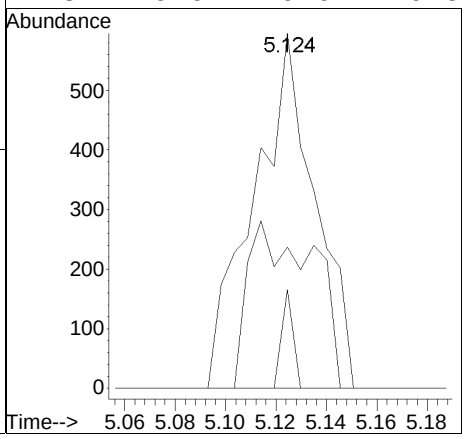




#35
Chloroform
Concen: 0.08 ug/L
RT: 5.124 min Scan# 770
Delta R.T. 0.005 min
Lab File: V30240605A18.D
Acq: 05 Jun 2024 01:00 pm

Tgt Ion: 83 Resp: 1007

Ion	Ratio	Lower	Upper
83	100		
85	49.7	41.4	86.0
47	5.2	20.5	42.5#
48	0.0	9.9	20.5#



Manual Integration Report

Data Path	: K:\VOA130\2024\240605A\	QMethod	: V130_240429A_8260D.m
Data File	: V30240605A18.D	Operator	: VOA130:PID
Date Inj'd	: 6/5/2024 1:00 pm	Instrument	: VOA130
Sample	: l2430219-05,31,10,10,,a	Quant Date	: 6/5/2024 1:22 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A19.D
Acq On : 05 Jun 2024 01:22 pm
Operator : VOA130:PID
Sample : l2430219-06,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 05 13:43:19 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240605A\V30240605A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.115	96	411306	10.000 ug/L	0.00
Standard Area 1 = 517502			Recovery = 79.48%		
63) Chlorobenzene-d5	9.665	117	329971	10.000 ug/L	0.00
Standard Area 1 = 376477			Recovery = 87.65%		
84) 1,4-Dichlorobenzene-d4	12.349	152	175295	10.000 ug/L	0.00
Standard Area 1 = 209535			Recovery = 83.66%		
System Monitoring Compounds					
39) Dibromofluoromethane	5.297	113	134304	11.392 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 113.92%		
47) 1,2-Dichloroethane-d4	5.822	65	160391	12.710 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 127.10%		
64) Toluene-d8	7.814	98	432641	10.000 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.00%		
88) 4-Bromofluorobenzene	11.143	95	162725	10.228 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.28%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	1.868	50	66	N.D.	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	2.267	94	54	N.D.	
6) Chloroethane	2.335	64	120	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	0.000		0	N.D.	
11) Carbon disulfide	3.053	76	914	N.D.	
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	3.593	84	340	N.D.	
17) Acetone	3.630	43	1512	0.952 ug/L #	76
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
19) Methyl acetate	3.735	43	123	N.D.	
21) Methyl tert-butyl ether	0.000		0	N.D.	
25) 1,1-Dichloroethane	0.000		0	N.D.	
30) cis-1,2-Dichloroethene	0.000		0	N.D.	
33) Bromochloromethane	0.000		0	N.D.	
34) Cyclohexane	0.000		0	N.D.	
35) Chloroform	5.140	83	49	N.D.	
37) Carbon tetrachloride	0.000		0	N.D.	

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A19.D
Acq On : 05 Jun 2024 01:22 pm
Operator : VOA130:PID
Sample : l2430219-06,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 05 13:43:19 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240605A\V30240605A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,1,1-Trichloroethane	0.000		0		N.D.	
42) 2-Butanone	5.470	43	48		N.D.	
45) Benzene	5.706	78	57		N.D.	
48) 1,2-Dichloroethane	0.000		0		N.D.	
51) Methyl cyclohexane	0.000		0		N.D.	
52) Trichloroethene	6.204	95	266		N.D.	
55) 1,2-Dichloropropane	0.000		0		N.D.	
58) Bromodichloromethane	0.000		0		N.D.	
61) 1,4-Dioxane	0.000		0		N.D.	
62) cis-1,3-Dichloropropene	0.000		0		N.D.	
65) Toluene	0.000		0		N.D.	
66) 4-Methyl-2-pentanone	0.000		0		N.D.	
67) Tetrachloroethene	0.000		0		N.D.	
69) trans-1,3-Dichloropropene	0.000		0		N.D.	
72) 1,1,2-Trichloroethane	0.000		0		N.D.	
73) Chlorodibromomethane	0.000		0		N.D.	
75) 1,2-Dibromoethane	0.000		0		N.D.	
77) 2-Hexanone	0.000		0		N.D.	
78) Chlorobenzene	0.000		0		N.D.	
79) Ethylbenzene	9.670	91	754		N.D.	
81) p/m Xylene	0.000		0		N.D.	
82) o Xylene	0.000		0		N.D.	
83) Styrene	0.000		0		N.D.	
85) Bromoform	0.000		0		N.D.	
87) Isopropylbenzene	0.000		0		N.D.	
92) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
105) 1,3-Dichlorobenzene	0.000		0		N.D.	
106) 1,4-Dichlorobenzene	0.000		0		N.D.	
109) 1,2-Dichlorobenzene	0.000		0		N.D.	
111) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
114) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
116) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

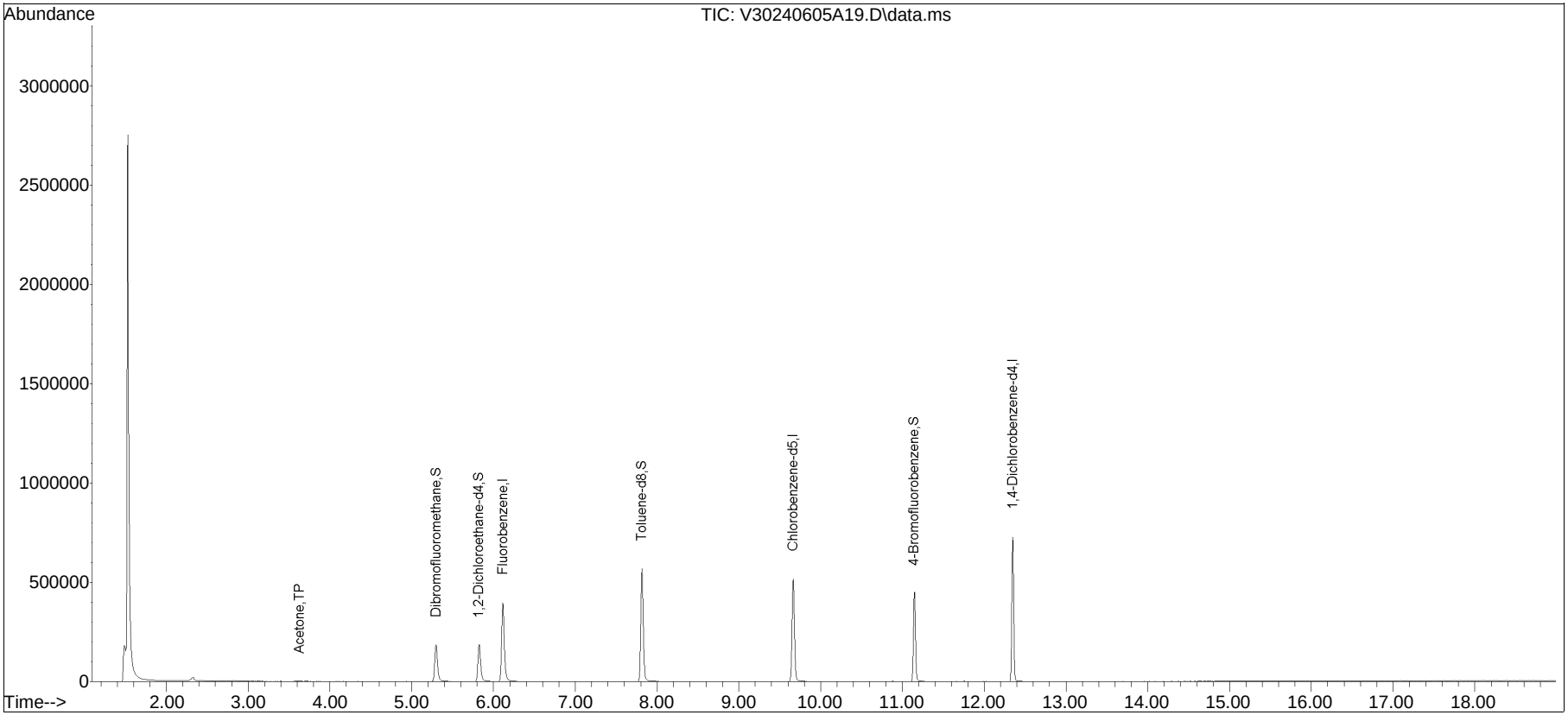
(#) = qualifier out of range (m) = manual integration (+) = signals summed

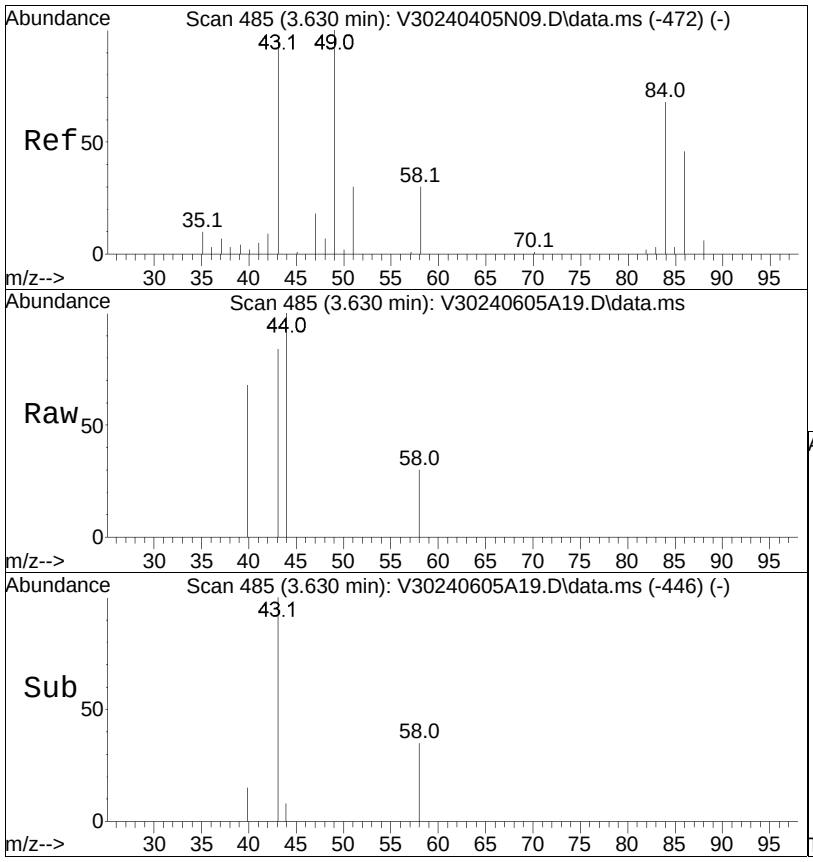
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A19.D
Acq On : 05 Jun 2024 01:22 pm
Operator : VOA130:PID
Sample : l2430219-06,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 05 13:43:19 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

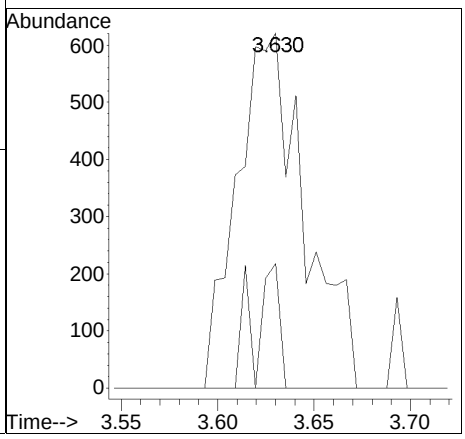




#17
Acetone
Concen: 0.95 ug/L
RT: 3.630 min Scan# 485
Delta R.T. 0.005 min
Lab File: V30240605A19.D
Acq: 05 Jun 2024 01:22 pm

Tgt Ion: 43 Resp: 1512

Ion	Ratio	Lower	Upper
43	100		
58	13.0	20.1	30.1#



Manual Integration Report

Data Path	: K:\VOA130\2024\240605A\	QMethod	: V130_240429A_8260D.m
Data File	: V30240605A19.D	Operator	: VOA130:PID
Date Inj'd	: 6/5/2024 1:22 pm	Instrument	: VOA130
Sample	: l2430219-06,31,10,10,,a	Quant Date	: 6/5/2024 1:43 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A20.D
Acq On : 05 Jun 2024 01:44 pm
Operator : VOA130:PID
Sample : l2430219-07,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 05 14:07:21 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240605A\V30240605A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.115	96	417737	10.000 ug/L	0.00
Standard Area 1 = 517502			Recovery = 80.72%		
63) Chlorobenzene-d5	9.665	117	336686	10.000 ug/L	0.00
Standard Area 1 = 376477			Recovery = 89.43%		
84) 1,4-Dichlorobenzene-d4	12.349	152	177953	10.000 ug/L	0.00
Standard Area 1 = 209535			Recovery = 84.93%		
System Monitoring Compounds					
39) Dibromofluoromethane	5.297	113	137445	11.479 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 114.79%		
47) 1,2-Dichloroethane-d4	5.821	65	162303	12.664 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 126.64%		
64) Toluene-d8	7.814	98	441184	9.994 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.94%		
88) 4-Bromofluorobenzene	11.148	95	165775	10.264 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.64%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	1.868	50	126	N.D.	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	2.261	94	98	N.D.	
6) Chloroethane	2.345	64	223	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	0.000		0	N.D.	
11) Carbon disulfide	3.053	76	912	N.D.	
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	3.577	84	366	N.D.	
17) Acetone	0.000		0	N.D.	d
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
19) Methyl acetate	3.750	43	205	N.D.	
21) Methyl tert-butyl ether	0.000		0	N.D.	
25) 1,1-Dichloroethane	0.000		0	N.D.	
30) cis-1,2-Dichloroethene	0.000		0	N.D.	
33) Bromochloromethane	0.000		0	N.D.	
34) Cyclohexane	0.000		0	N.D.	
35) Chloroform	0.000		0	N.D.	
37) Carbon tetrachloride	0.000		0	N.D.	

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A20.D
Acq On : 05 Jun 2024 01:44 pm
Operator : VOA130:PID
Sample : l2430219-07,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 05 14:07:21 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240605A\V30240605A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,1,1-Trichloroethane	0.000		0		N.D.	
42) 2-Butanone	5.266	43	48		N.D.	
45) Benzene	0.000		0		N.D.	
48) 1,2-Dichloroethane	5.890	62	52		N.D.	
51) Methyl cyclohexane	0.000		0		N.D.	
52) Trichloroethene	0.000		0		N.D.	
55) 1,2-Dichloropropane	0.000		0		N.D.	
58) Bromodichloromethane	0.000		0		N.D.	
61) 1,4-Dioxane	0.000		0		N.D.	
62) cis-1,3-Dichloropropene	0.000		0		N.D.	
65) Toluene	0.000		0		N.D.	
66) 4-Methyl-2-pentanone	0.000		0		N.D.	
67) Tetrachloroethene	8.333	166	245		N.D.	
69) trans-1,3-Dichloropropene	0.000		0		N.D.	
72) 1,1,2-Trichloroethane	0.000		0		N.D.	
73) Chlorodibromomethane	0.000		0		N.D.	
75) 1,2-Dibromoethane	0.000		0		N.D.	
77) 2-Hexanone	0.000		0		N.D.	
78) Chlorobenzene	0.000		0		N.D.	
79) Ethylbenzene	9.670	91	680		N.D.	
81) p/m Xylene	0.000		0		N.D.	
82) o Xylene	0.000		0		N.D.	
83) Styrene	0.000		0		N.D.	
85) Bromoform	0.000		0		N.D.	
87) Isopropylbenzene	0.000		0		N.D.	
92) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
105) 1,3-Dichlorobenzene	12.360	146	56		N.D.	
106) 1,4-Dichlorobenzene	12.360	146	56		N.D.	
109) 1,2-Dichlorobenzene	0.000		0		N.D.	
111) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
114) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
116) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

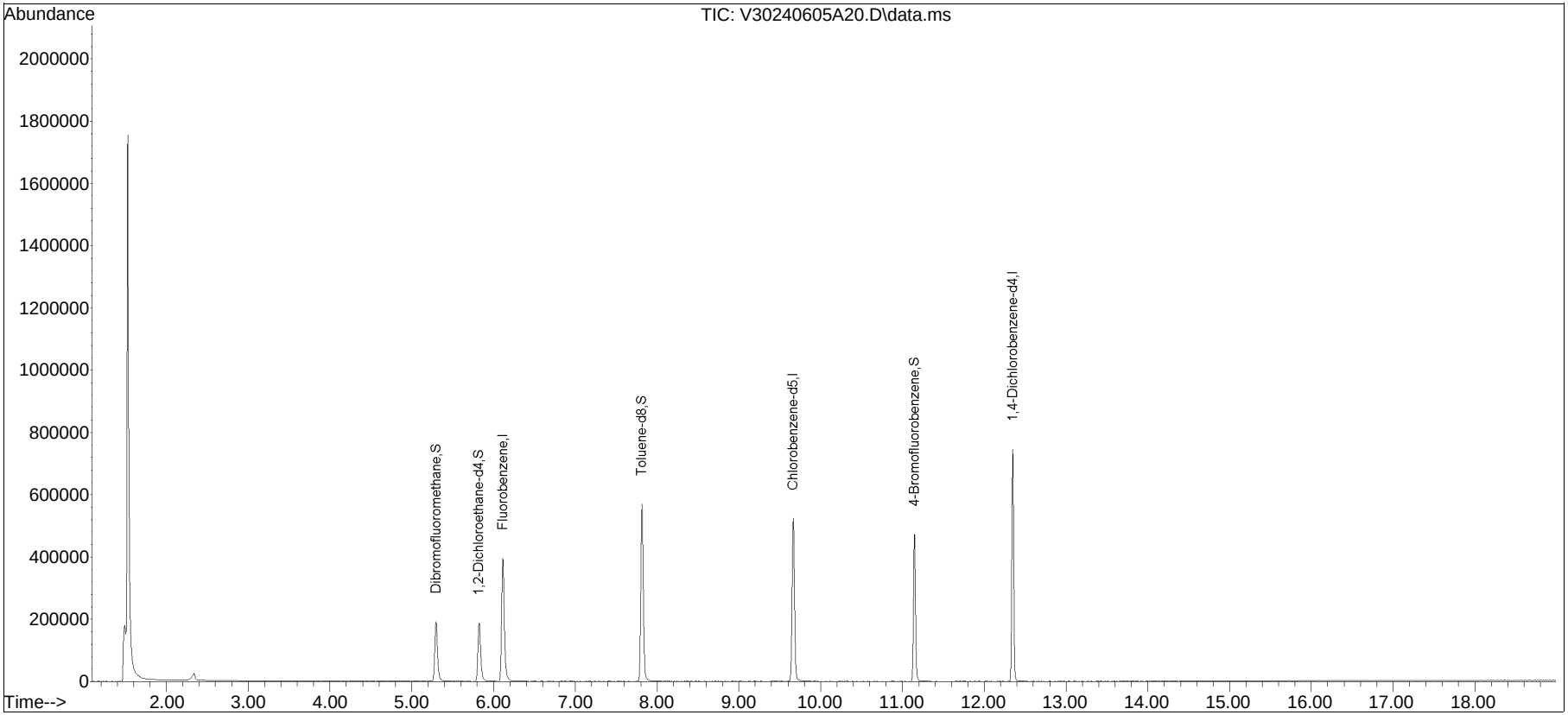
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A20.D
Acq On : 05 Jun 2024 01:44 pm
Operator : VOA130:PID
Sample : l2430219-07,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 05 14:07:21 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane



Manual Integration Report

Data Path	: K:\VOA130\2024\240605A\	QMethod	: V130_240429A_8260D.m
Data File	: V30240605A20.D	Operator	: VOA130:PID
Date Inj'd	: 6/5/2024 1:44 pm	Instrument	: VOA130
Sample	: l2430219-07,31,10,10,,a	Quant Date	: 6/5/2024 2:06 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A21.D
Acq On : 05 Jun 2024 02:06 pm
Operator : VOA130:MKS
Sample : l2430219-08,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 05 15:10:39 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240605A\V30240605A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.115	96	394524	10.000	ug/L	0.00
Standard Area 1 = 517502			Recovery = 76.24%			
63) Chlorobenzene-d5	9.665	117	320578	10.000	ug/L	0.00
Standard Area 1 = 376477			Recovery = 85.15%			
84) 1,4-Dichlorobenzene-d4	12.349	152	169243	10.000	ug/L	0.00
Standard Area 1 = 209535			Recovery = 80.77%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.297	113	130844	11.570	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.70%			
47) 1,2-Dichloroethane-d4	5.822	65	152876	12.630	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 126.30%			
64) Toluene-d8	7.814	98	416533	9.909	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.09%			
88) 4-Bromofluorobenzene	11.149	95	156394	10.181	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.81%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D. d		
3) Chloromethane	1.874	50	170	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.272	94	312	0.070	ug/L	87
6) Chloroethane	2.330	64	61	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.058	76	852	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.588	84	404	N.D.		
17) Acetone	3.619	43	1199	0.787	ug/L #	70
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.756	43	127	N.D.		
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
33) Bromochloromethane	0.000		0	N.D.		
34) Cyclohexane	0.000		0	N.D.		
35) Chloroform	0.000		0	N.D.		
37) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A21.D
Acq On : 05 Jun 2024 02:06 pm
Operator : VOA130:MKS
Sample : l2430219-08,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 05 15:10:39 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240605A\V30240605A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,1,1-Trichloroethane	0.000		0		N.D.	
42) 2-Butanone	0.000		0		N.D.	
45) Benzene	0.000		0		N.D.	
48) 1,2-Dichloroethane	5.890	62	68		N.D.	
51) Methyl cyclohexane	0.000		0		N.D.	
52) Trichloroethene	0.000		0		N.D.	
55) 1,2-Dichloropropane	0.000		0		N.D.	
58) Bromodichloromethane	0.000		0		N.D.	
61) 1,4-Dioxane	0.000		0		N.D.	
62) cis-1,3-Dichloropropene	0.000		0		N.D.	
65) Toluene	0.000		0		N.D.	
66) 4-Methyl-2-pentanone	0.000		0		N.D.	
67) Tetrachloroethene	0.000		0		N.D.	
69) trans-1,3-Dichloropropene	0.000		0		N.D.	
72) 1,1,2-Trichloroethane	0.000		0		N.D.	
73) Chlorodibromomethane	0.000		0		N.D.	
75) 1,2-Dibromoethane	0.000		0		N.D.	
77) 2-Hexanone	0.000		0		N.D.	
78) Chlorobenzene	0.000		0		N.D.	
79) Ethylbenzene	9.665	91	572		N.D.	
81) p/m Xylene	0.000		0		N.D.	
82) o Xylene	0.000		0		N.D.	
83) Styrene	0.000		0		N.D.	
85) Bromoform	0.000		0		N.D.	
87) Isopropylbenzene	0.000		0		N.D.	
92) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
105) 1,3-Dichlorobenzene	0.000		0		N.D.	
106) 1,4-Dichlorobenzene	0.000		0		N.D.	
109) 1,2-Dichlorobenzene	0.000		0		N.D.	
111) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
114) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
116) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

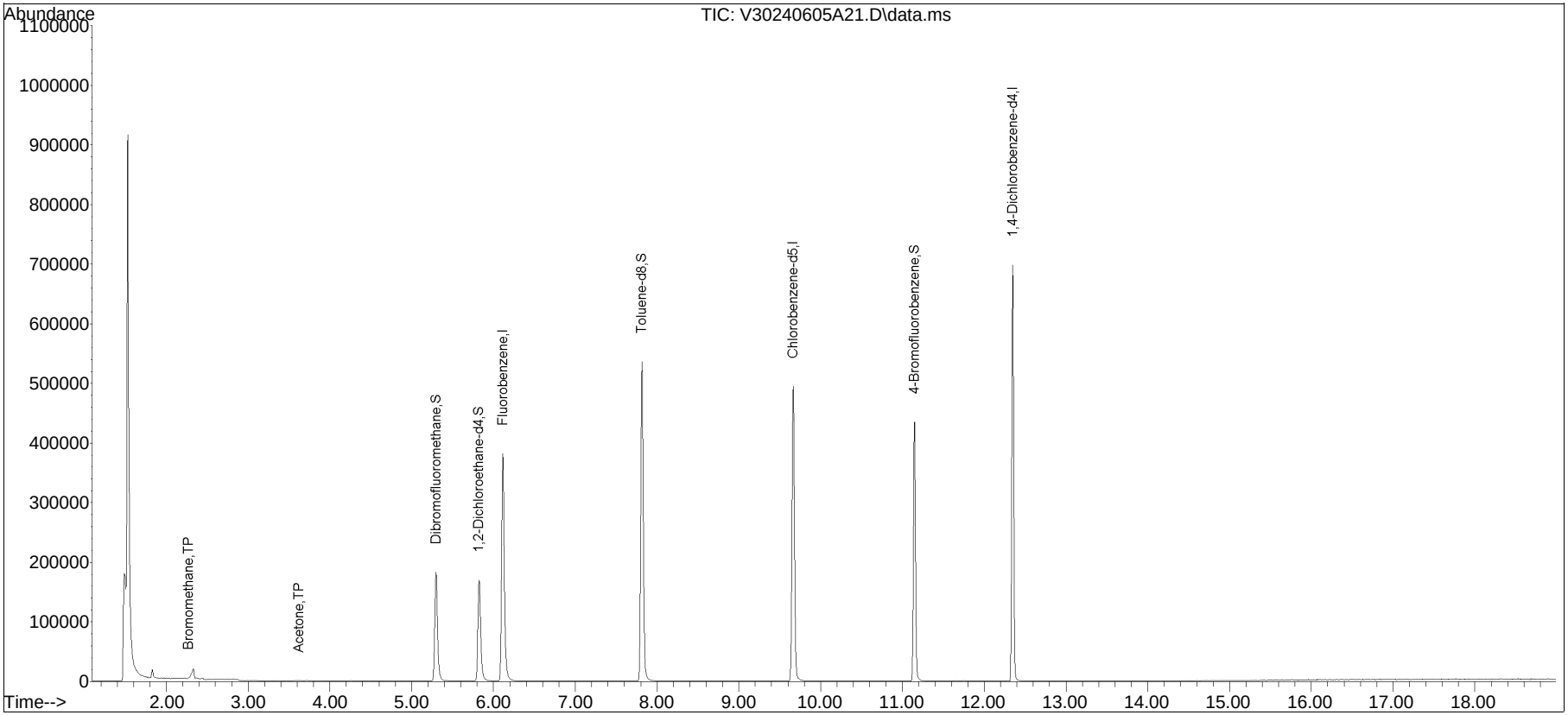
(#) = qualifier out of range (m) = manual integration (+) = signals summed

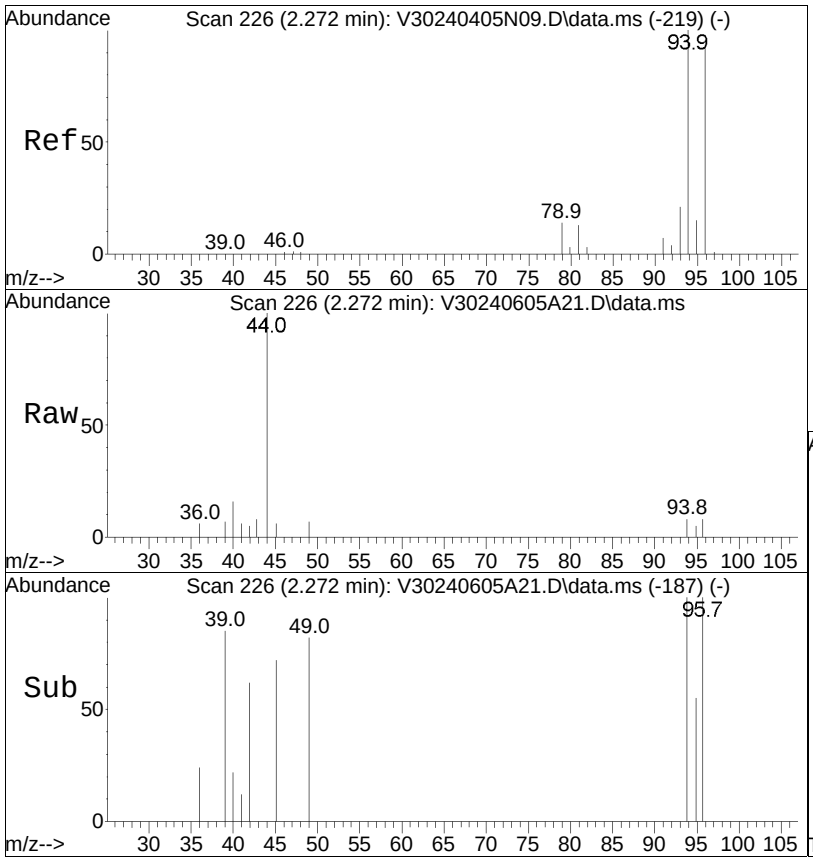
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A21.D
Acq On : 05 Jun 2024 02:06 pm
Operator : VOA130:MKS
Sample : l2430219-08,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 05 15:10:39 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

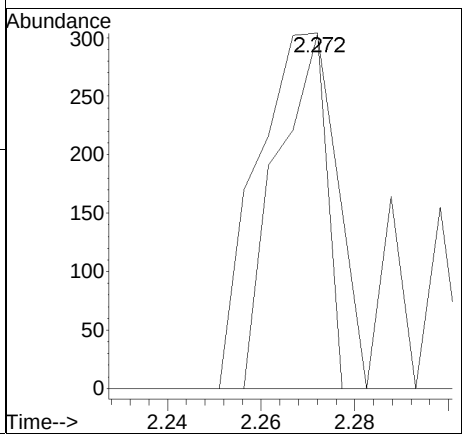


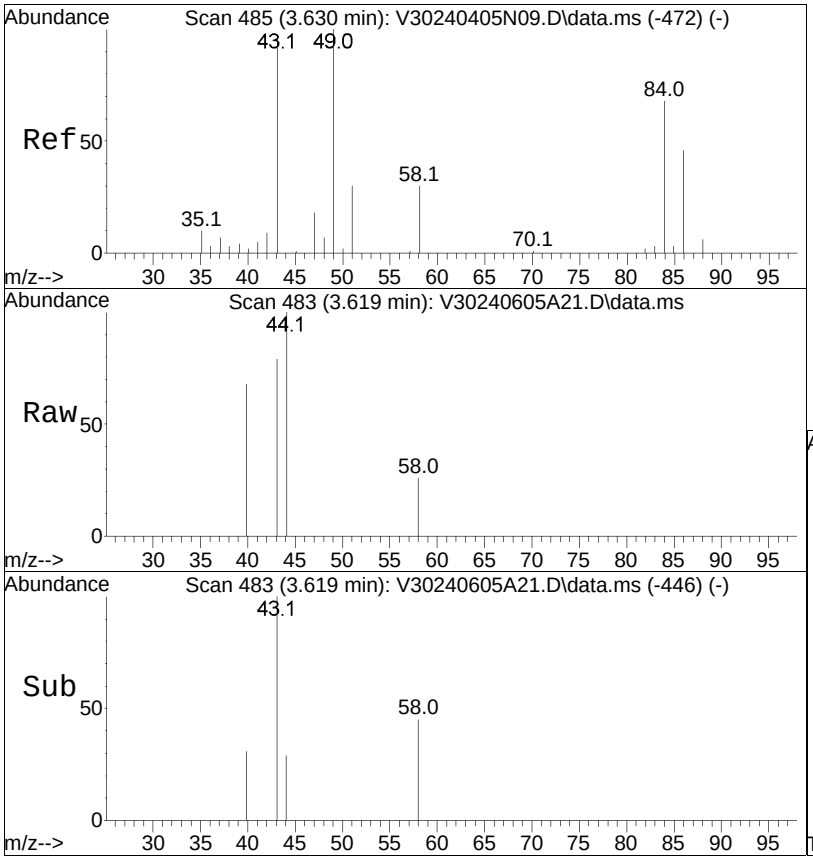


#5
Bromomethane
Concen: 0.07 ug/L
RT: 2.272 min Scan# 226
Delta R.T. 0.005 min
Lab File: V30240605A21.D
Acq: 05 Jun 2024 02:06 pm

Tgt Ion: 94 Resp: 312

Ion	Ratio	Lower	Upper
94	100		
96	104.2	73.7	110.5

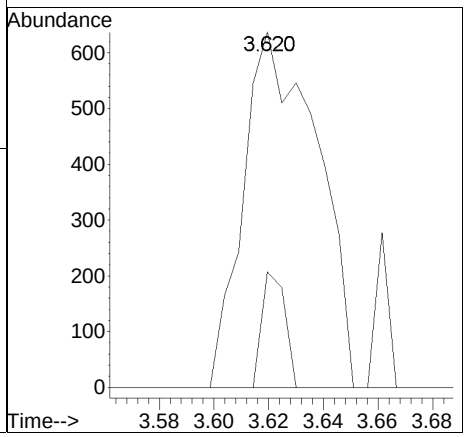




#17
Acetone
Concen: 0.79 ug/L
RT: 3.619 min Scan# 483
Delta R.T. -0.006 min
Lab File: V30240605A21.D
Acq: 05 Jun 2024 02:06 pm

Tgt Ion: 43 Resp: 1199

Ion	Ratio	Lower	Upper
43	100		
58	10.1	20.1	30.1#



Manual Integration Report

Data Path	: K:\VOA130\2024\240605A\	QMethod	: V130_240429A_8260D.m
Data File	: V30240605A21.D	Operator	: VOA130:MKS
Date Inj'd	: 6/5/2024 2:06 pm	Instrument	: VOA130
Sample	: l2430219-08,31,10,10,,a	Quant Date	: 6/5/2024 3:10 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A22.D
Acq On : 05 Jun 2024 02:29 pm
Operator : VOA130:MKS
Sample : l2430219-09,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 05 15:11:14 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240605A\V30240605A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.115	96	395938	10.000 ug/L	0.00
Standard Area 1 = 517502			Recovery = 76.51%		
63) Chlorobenzene-d5	9.665	117	318838	10.000 ug/L	0.00
Standard Area 1 = 376477			Recovery = 84.69%		
84) 1,4-Dichlorobenzene-d4	12.349	152	169602	10.000 ug/L	0.00
Standard Area 1 = 209535			Recovery = 80.94%		
System Monitoring Compounds					
39) Dibromofluoromethane	5.297	113	129971	11.452 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 114.52%		
47) 1,2-Dichloroethane-d4	5.827	65	153403	12.628 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 126.28%		
64) Toluene-d8	7.814	98	417480	9.986 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.86%		
88) 4-Bromofluorobenzene	11.143	95	155692	10.114 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.14%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	1.868	50	215	N.D.	
4) Vinyl chloride	1.832	62	116	N.D.	
5) Bromomethane	2.267	94	420	0.094 ug/L #	48
6) Chloroethane	2.340	64	59	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	0.000		0	N.D.	
11) Carbon disulfide	3.059	76	861	N.D.	
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	3.578	84	415	N.D.	
17) Acetone	3.630	43	1508	0.986 ug/L #	60
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
19) Methyl acetate	0.000		0	N.D. d	
21) Methyl tert-butyl ether	0.000		0	N.D.	
25) 1,1-Dichloroethane	0.000		0	N.D.	
30) cis-1,2-Dichloroethene	4.930	96	104	N.D.	
33) Bromochloromethane	0.000		0	N.D.	
34) Cyclohexane	0.000		0	N.D.	
35) Chloroform	0.000		0	N.D.	
37) Carbon tetrachloride	0.000		0	N.D.	

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A22.D
Acq On : 05 Jun 2024 02:29 pm
Operator : VOA130:MKS
Sample : l2430219-09,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 05 15:11:14 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240605A\V30240605A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,1,1-Trichloroethane	0.000		0		N.D.	
42) 2-Butanone	0.000		0		N.D.	
45) Benzene	0.000		0		N.D.	
48) 1,2-Dichloroethane	0.000		0		N.D.	
51) Methyl cyclohexane	0.000		0		N.D.	
52) Trichloroethene	0.000		0		N.D.	
55) 1,2-Dichloropropane	0.000		0		N.D.	
58) Bromodichloromethane	0.000		0		N.D.	
61) 1,4-Dioxane	0.000		0		N.D.	
62) cis-1,3-Dichloropropene	0.000		0		N.D.	
65) Toluene	7.877	92	52		N.D.	
66) 4-Methyl-2-pentanone	0.000		0		N.D.	
67) Tetrachloroethene	0.000		0		N.D.	
69) trans-1,3-Dichloropropene	0.000		0		N.D.	
72) 1,1,2-Trichloroethane	0.000		0		N.D.	
73) Chlorodibromomethane	0.000		0		N.D.	
75) 1,2-Dibromoethane	0.000		0		N.D.	
77) 2-Hexanone	0.000		0		N.D.	
78) Chlorobenzene	0.000		0		N.D.	
79) Ethylbenzene	9.665	91	542		N.D.	
81) p/m Xylene	0.000		0		N.D.	
82) o Xylene	0.000		0		N.D.	
83) Styrene	0.000		0		N.D.	
85) Bromoform	0.000		0		N.D.	
87) Isopropylbenzene	0.000		0		N.D.	
92) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
105) 1,3-Dichlorobenzene	12.360	146	113		N.D.	
106) 1,4-Dichlorobenzene	12.360	146	113		N.D.	
109) 1,2-Dichlorobenzene	0.000		0		N.D.	
111) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
114) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
116) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

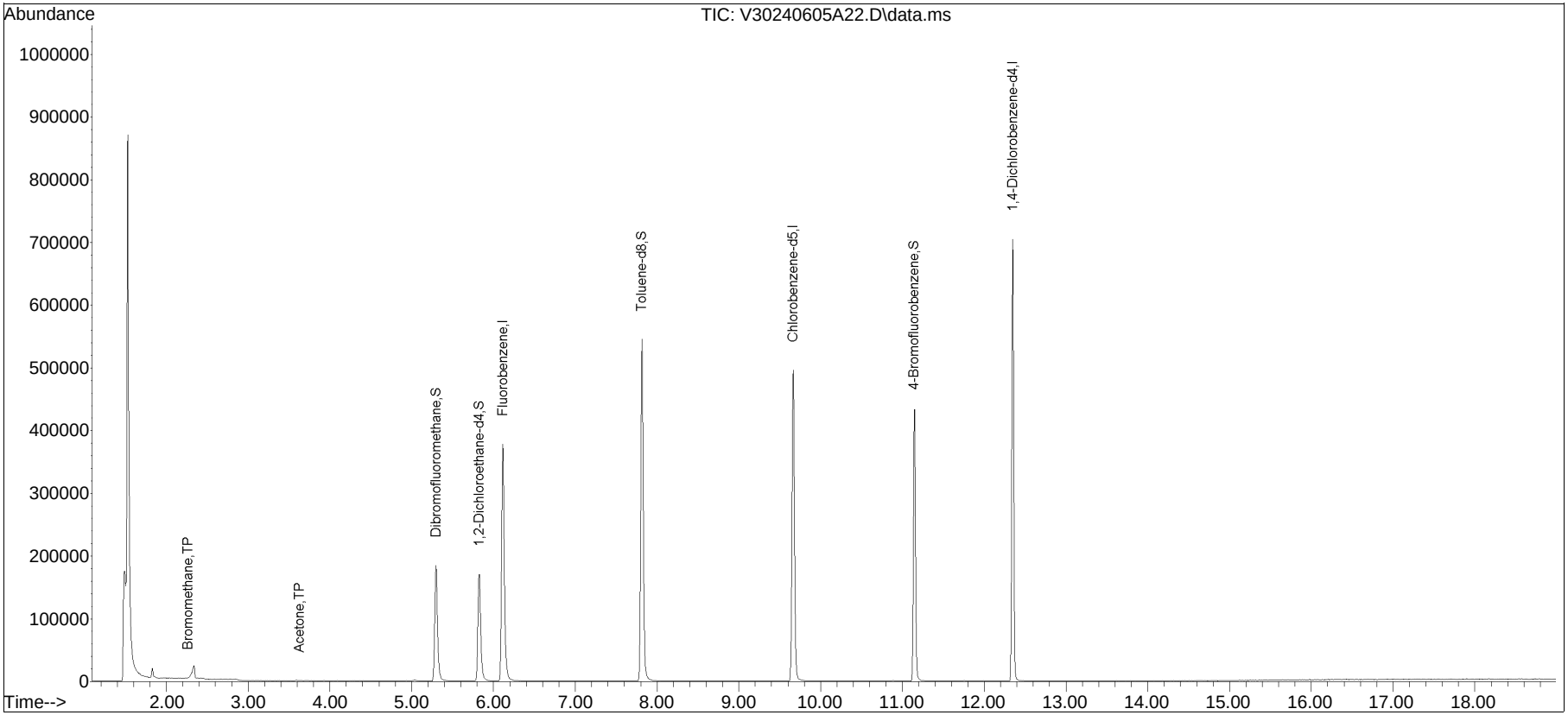
(#) = qualifier out of range (m) = manual integration (+) = signals summed

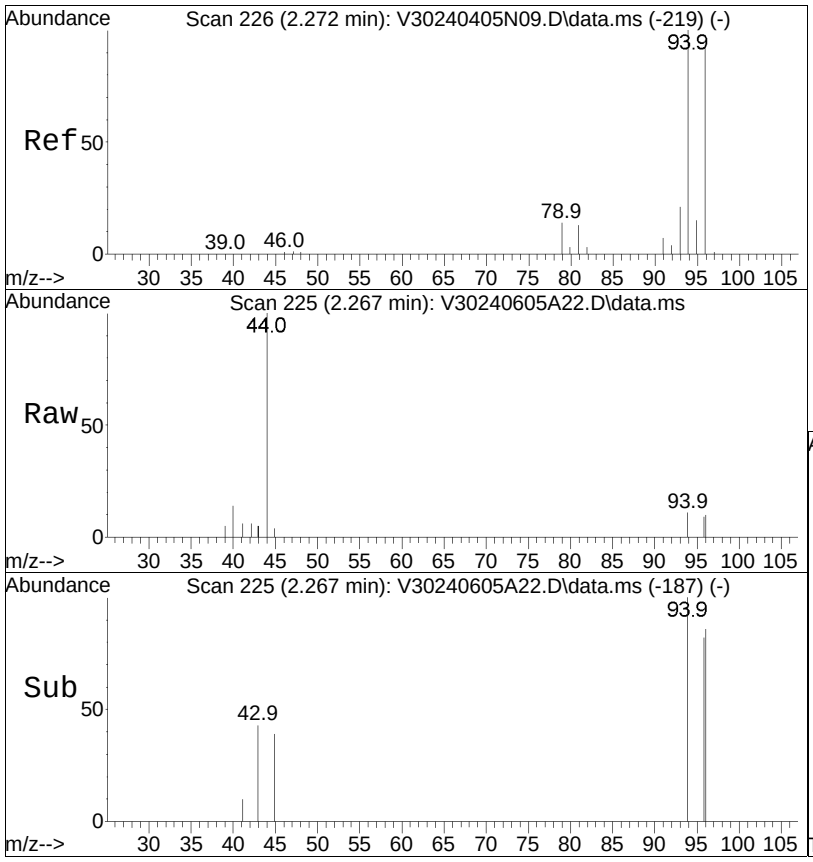
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A22.D
Acq On : 05 Jun 2024 02:29 pm
Operator : VOA130:MKS
Sample : l2430219-09,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 05 15:11:14 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

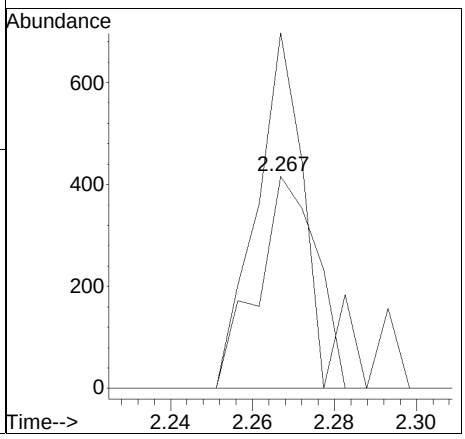


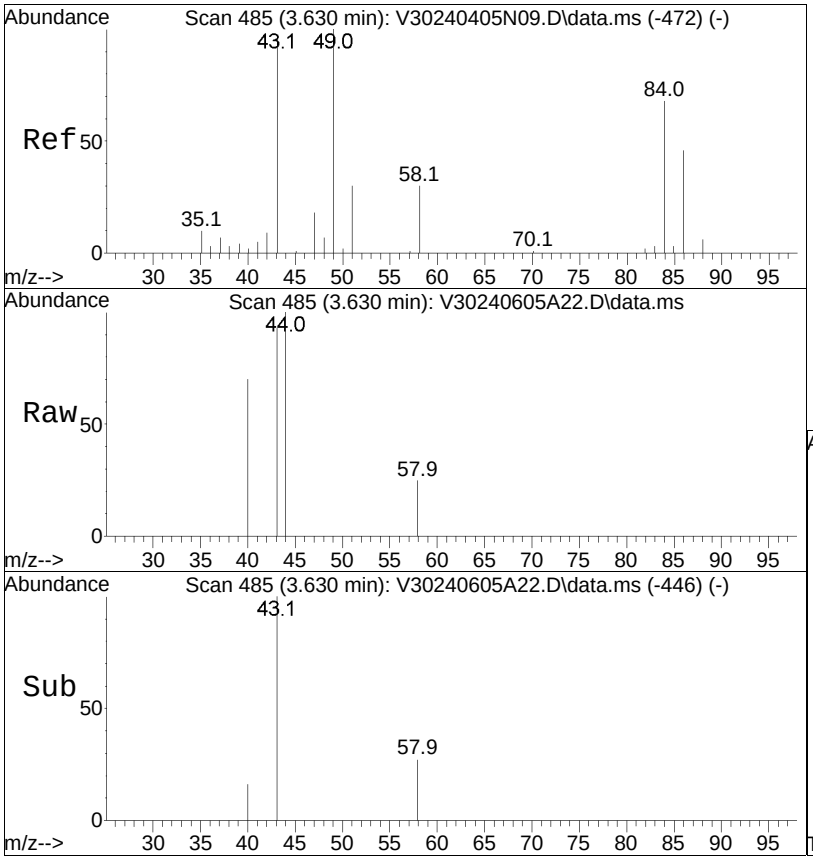


#5
Bromomethane
Concen: 0.09 ug/L
RT: 2.267 min Scan# 225
Delta R.T. -0.000 min
Lab File: V30240605A22.D
Acq: 05 Jun 2024 02:29 pm

Tgt Ion: 94 Resp: 420

Ion	Ratio	Lower	Upper
94	100		
96	141.7	73.7	110.5#

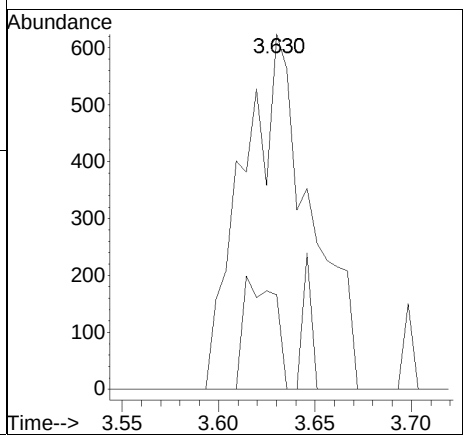




#17
Acetone
Concen: 0.99 ug/L
RT: 3.630 min Scan# 485
Delta R.T. 0.005 min
Lab File: V30240605A22.D
Acq: 05 Jun 2024 02:29 pm

Tgt Ion: 43 Resp: 1508

Ion	Ratio	Lower	Upper
43	100		
58	5.0	20.1	30.1#



Manual Integration Report

Data Path	: K:\VOA130\2024\240605A\	QMethod	: V130_240429A_8260D.m
Data File	: V30240605A22.D	Operator	: VOA130:MKS
Date Inj'd	: 6/5/2024 2:29 pm	Instrument	: VOA130
Sample	: l2430219-09,31,10,10,,a	Quant Date	: 6/5/2024 3:11 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A23.D
Acq On : 05 Jun 2024 02:51 pm
Operator : VOA130:MKS
Sample : l2430219-10,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 05 15:12:13 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240605A\V30240605A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.115	96	391967	10.000	ug/L	0.00
Standard Area 1 = 517502			Recovery = 75.74%			
63) Chlorobenzene-d5	9.665	117	321725	10.000	ug/L	0.00
Standard Area 1 = 376477			Recovery = 85.46%			
84) 1,4-Dichlorobenzene-d4	12.349	152	168190	10.000	ug/L	0.00
Standard Area 1 = 209535			Recovery = 80.27%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.297	113	131739	11.725	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 117.25%			
47) 1,2-Dichloroethane-d4	5.822	65	152724	12.700	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 127.00%			
64) Toluene-d8	7.814	98	412479	9.778	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.78%			
88) 4-Bromofluorobenzene	11.149	95	157149	10.295	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.95%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	d	
3) Chloromethane	1.868	50	242	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.267	94	174	N.D.		
6) Chloroethane	2.340	64	162	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.053	76	2003	0.114	ug/L #	73
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.583	84	330	N.D.		
17) Acetone	3.625	43	1405	0.928	ug/L #	78
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	4.941	96	57	N.D.		
33) Bromochloromethane	0.000		0	N.D.		
34) Cyclohexane	0.000		0	N.D.		
35) Chloroform	0.000		0	N.D.		
37) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A23.D
Acq On : 05 Jun 2024 02:51 pm
Operator : VOA130:MKS
Sample : l2430219-10,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 05 15:12:13 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240605A\V30240605A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,1,1-Trichloroethane	0.000		0	N.D.		
42) 2-Butanone	0.000		0	N.D.	d	
45) Benzene	5.717	78	49	N.D.		
48) 1,2-Dichloroethane	0.000		0	N.D.		
51) Methyl cyclohexane	0.000		0	N.D.		
52) Trichloroethene	6.236	95	52	N.D.		
55) 1,2-Dichloropropane	0.000		0	N.D.		
58) Bromodichloromethane	0.000		0	N.D.		
61) 1,4-Dioxane	0.000		0	N.D.		
62) cis-1,3-Dichloropropene	0.000		0	N.D.		
65) Toluene	7.882	92	229	N.D.		
66) 4-Methyl-2-pentanone	0.000		0	N.D.		
67) Tetrachloroethene	0.000		0	N.D.		
69) trans-1,3-Dichloropropene	0.000		0	N.D.		
72) 1,1,2-Trichloroethane	0.000		0	N.D.		
73) Chlorodibromomethane	0.000		0	N.D.		
75) 1,2-Dibromoethane	0.000		0	N.D.		
77) 2-Hexanone	0.000		0	N.D.		
78) Chlorobenzene	0.000		0	N.D.		
79) Ethylbenzene	9.670	91	720	N.D.		
81) p/m Xylene	0.000		0	N.D.		
82) o Xylene	0.000		0	N.D.		
83) Styrene	0.000		0	N.D.		
85) Bromoform	0.000		0	N.D.		
87) Isopropylbenzene	0.000		0	N.D.		
92) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
105) 1,3-Dichlorobenzene	0.000		0	N.D.		
106) 1,4-Dichlorobenzene	0.000		0	N.D.		
109) 1,2-Dichlorobenzene	0.000		0	N.D.		
111) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
114) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
116) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

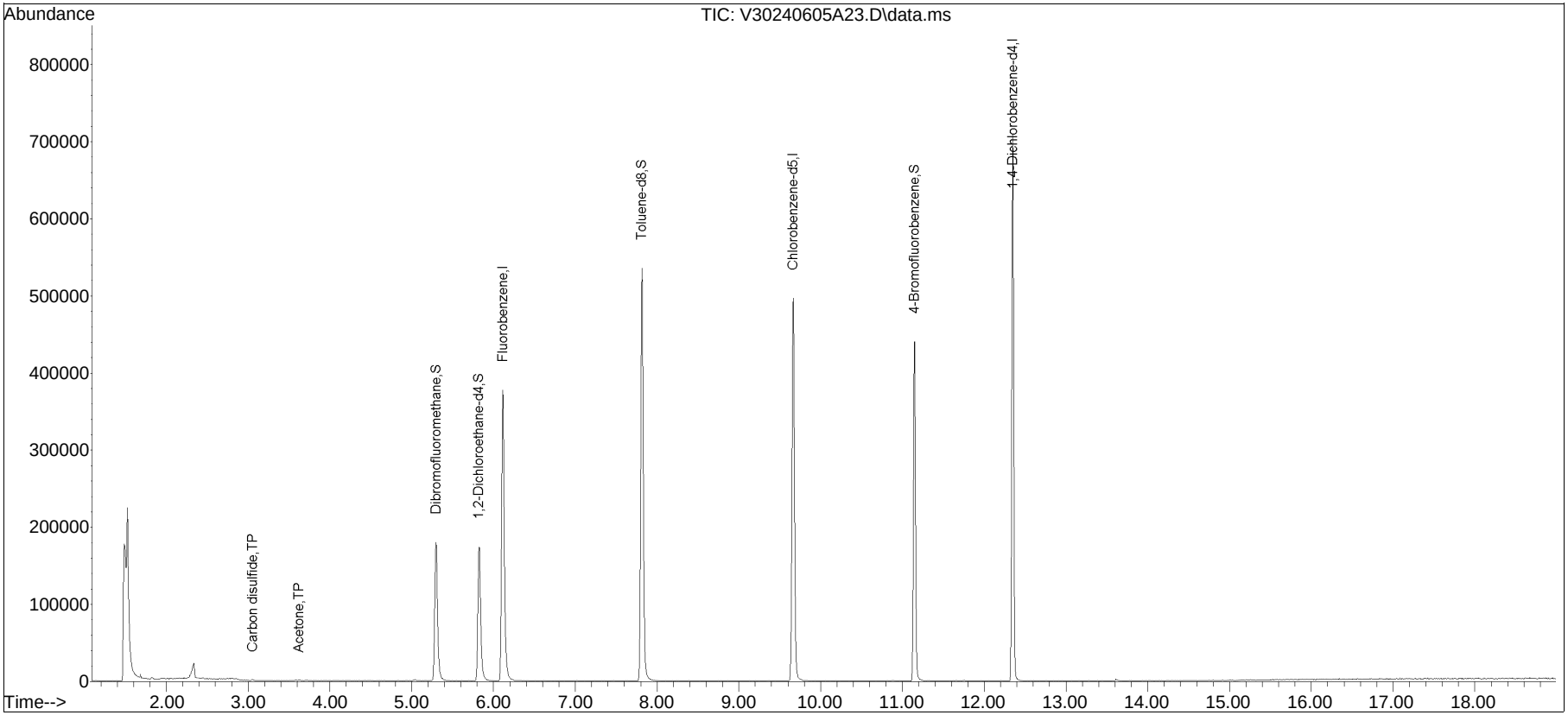
(#) = qualifier out of range (m) = manual integration (+) = signals summed

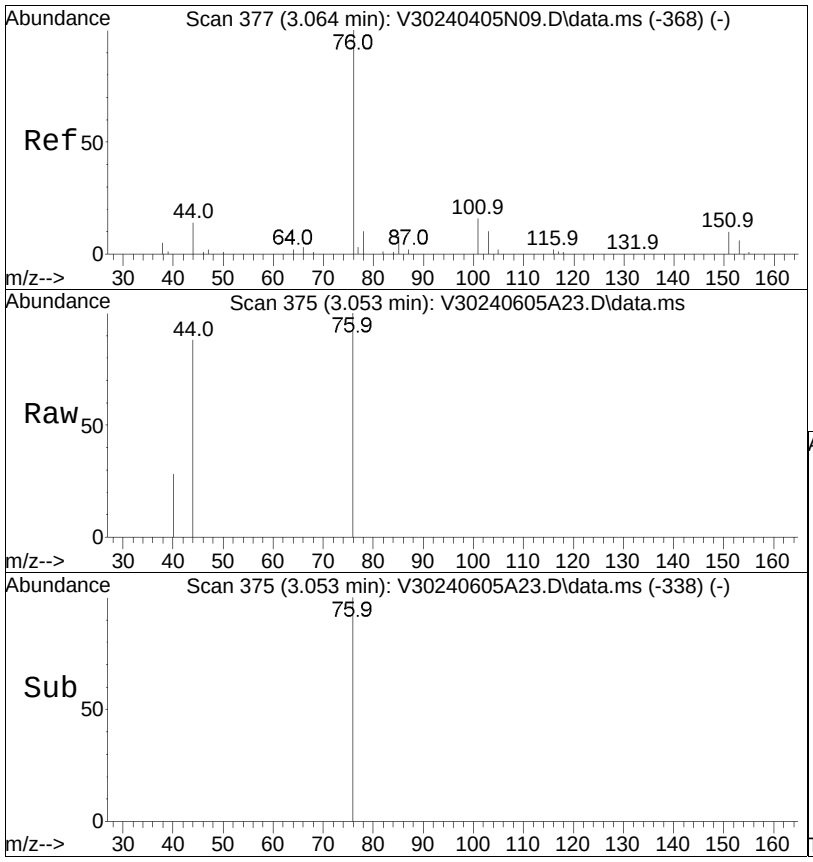
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A23.D
Acq On : 05 Jun 2024 02:51 pm
Operator : VOA130:MKS
Sample : l2430219-10,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 05 15:12:13 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

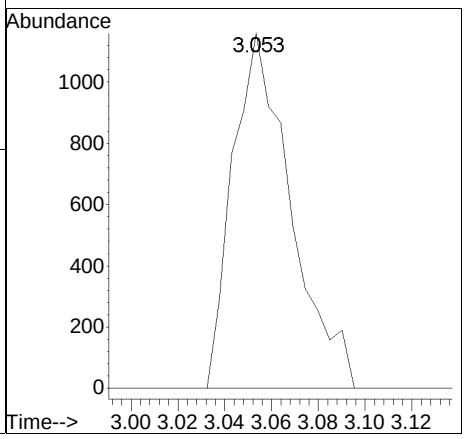


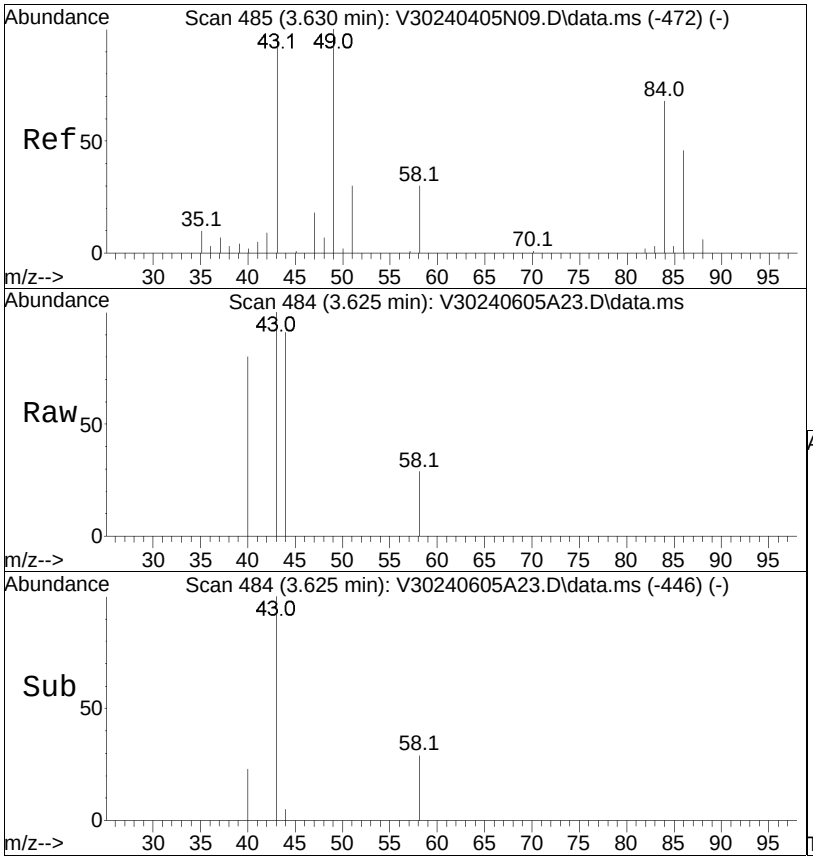


#11
Carbon disulfide
Concen: 0.11 ug/L
RT: 3.053 min Scan# 375
Delta R.T. -0.005 min
Lab File: V30240605A23.D
Acq: 05 Jun 2024 02:51 pm

Tgt Ion: 76 Resp: 2003

Ion	Ratio	Lower	Upper
76	100		
78	0.0	6.4	13.4#

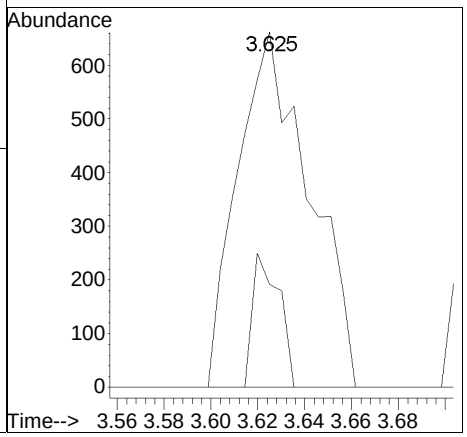




#17
Acetone
Concen: 0.93 ug/L
RT: 3.625 min Scan# 484
Delta R.T. -0.000 min
Lab File: V30240605A23.D
Acq: 05 Jun 2024 02:51 pm

Tgt Ion: 43 Resp: 1405

Ion	Ratio	Lower	Upper
43	100		
58	14.0	20.1	30.1#



Manual Integration Report

Data Path	: K:\VOA130\2024\240605A\	QMethod	: V130_240429A_8260D.m
Data File	: V30240605A23.D	Operator	: VOA130:MKS
Date Inj'd	: 6/5/2024 2:51 pm	Instrument	: VOA130
Sample	: l2430219-10,31,10,10,,a	Quant Date	: 6/5/2024 3:11 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A24.D
Acq On : 05 Jun 2024 03:13 pm
Operator : VOA130:MKS
Sample : l2430219-11,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 05 15:37:57 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240605A\V30240605A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.115	96	396648	10.000	ug/L	0.00
Standard Area 1 = 517502			Recovery = 76.65%			
63) Chlorobenzene-d5	9.665	117	316084	10.000	ug/L	0.00
Standard Area 1 = 376477			Recovery = 83.96%			
84) 1,4-Dichlorobenzene-d4	12.349	152	164782	10.000	ug/L	0.00
Standard Area 1 = 209535			Recovery = 78.64%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.297	113	130133	11.446	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 114.46%			
47) 1,2-Dichloroethane-d4	5.827	65	159560	13.111	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 131.11%#			
64) Toluene-d8	7.814	98	414098	9.992	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.92%			
88) 4-Bromofluorobenzene	11.143	95	156382	10.456	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.56%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.874	50	190	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.262	94	236	N.D.		
6) Chloroethane	2.335	64	122	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.058	76	661	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.578	84	494	N.D.		
17) Acetone	3.625	43	2715	1.772	ug/L #	81
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.735	43	117	N.D.		
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
33) Bromochloromethane	0.000		0	N.D.		
34) Cyclohexane	0.000		0	N.D.		
35) Chloroform	5.109	83	462	N.D.		
37) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A24.D
Acq On : 05 Jun 2024 03:13 pm
Operator : VOA130:MKS
Sample : l2430219-11,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 05 15:37:57 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240605A\V30240605A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,1,1-Trichloroethane	0.000		0		N.D.	
42) 2-Butanone	5.554	43	49		N.D.	
45) Benzene	0.000		0		N.D.	
48) 1,2-Dichloroethane	0.000		0		N.D.	
51) Methyl cyclohexane	0.000		0		N.D.	
52) Trichloroethene	0.000		0		N.D.	
55) 1,2-Dichloropropane	0.000		0		N.D.	
58) Bromodichloromethane	0.000		0		N.D.	
61) 1,4-Dioxane	0.000		0		N.D.	
62) cis-1,3-Dichloropropene	0.000		0		N.D.	
65) Toluene	7.872	92	61		N.D.	
66) 4-Methyl-2-pentanone	0.000		0		N.D.	
67) Tetrachloroethene	0.000		0		N.D.	
69) trans-1,3-Dichloropropene	0.000		0		N.D.	
72) 1,1,2-Trichloroethane	0.000		0		N.D.	
73) Chlorodibromomethane	0.000		0		N.D.	
75) 1,2-Dibromoethane	0.000		0		N.D.	
77) 2-Hexanone	0.000		0		N.D.	
78) Chlorobenzene	0.000		0		N.D.	
79) Ethylbenzene	9.670	91	638		N.D.	
81) p/m Xylene	0.000		0		N.D.	
82) o Xylene	0.000		0		N.D.	
83) Styrene	0.000		0		N.D.	
85) Bromoform	0.000		0		N.D.	
87) Isopropylbenzene	0.000		0		N.D.	
92) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
105) 1,3-Dichlorobenzene	12.355	146	52		N.D.	
106) 1,4-Dichlorobenzene	12.355	146	52		N.D.	
109) 1,2-Dichlorobenzene	0.000		0		N.D.	
111) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
114) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
116) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

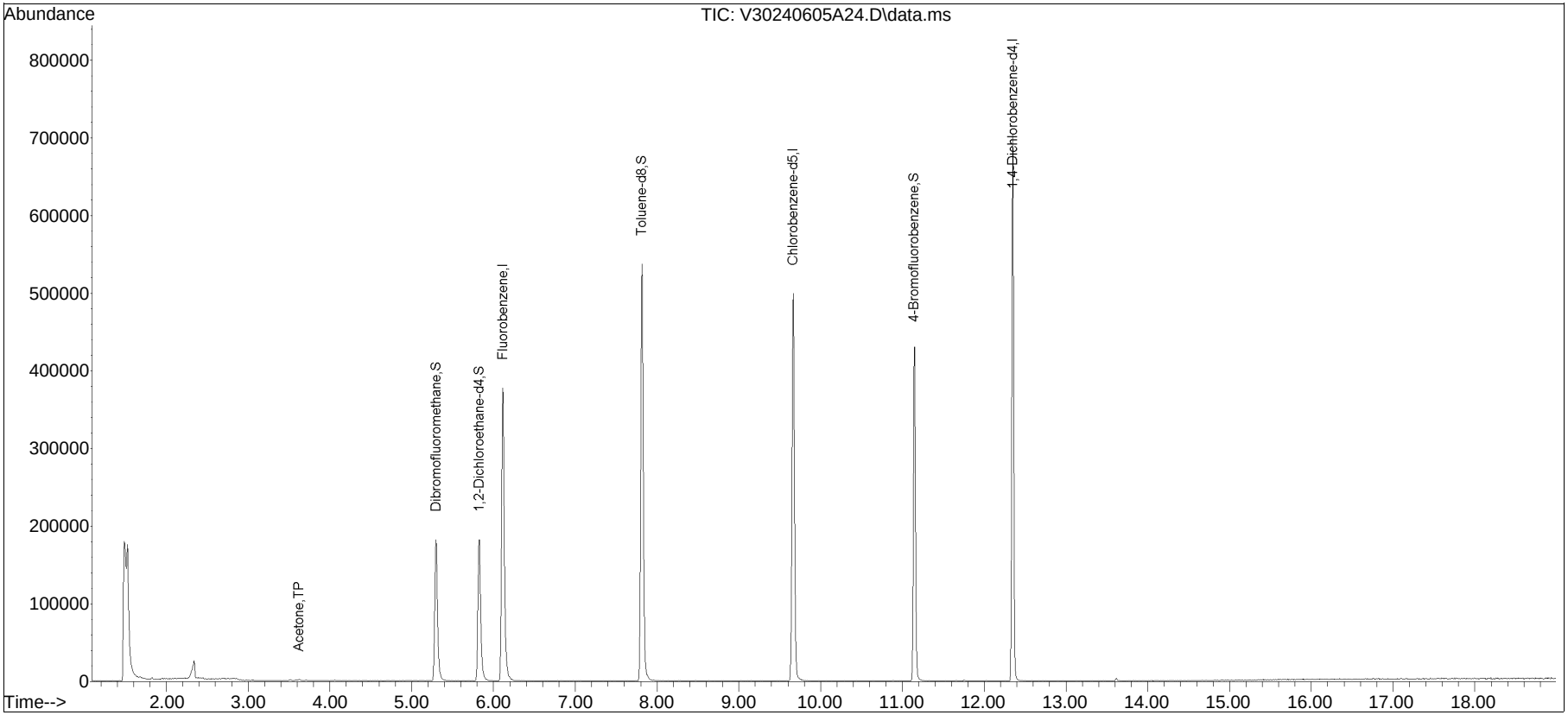
(#) = qualifier out of range (m) = manual integration (+) = signals summed

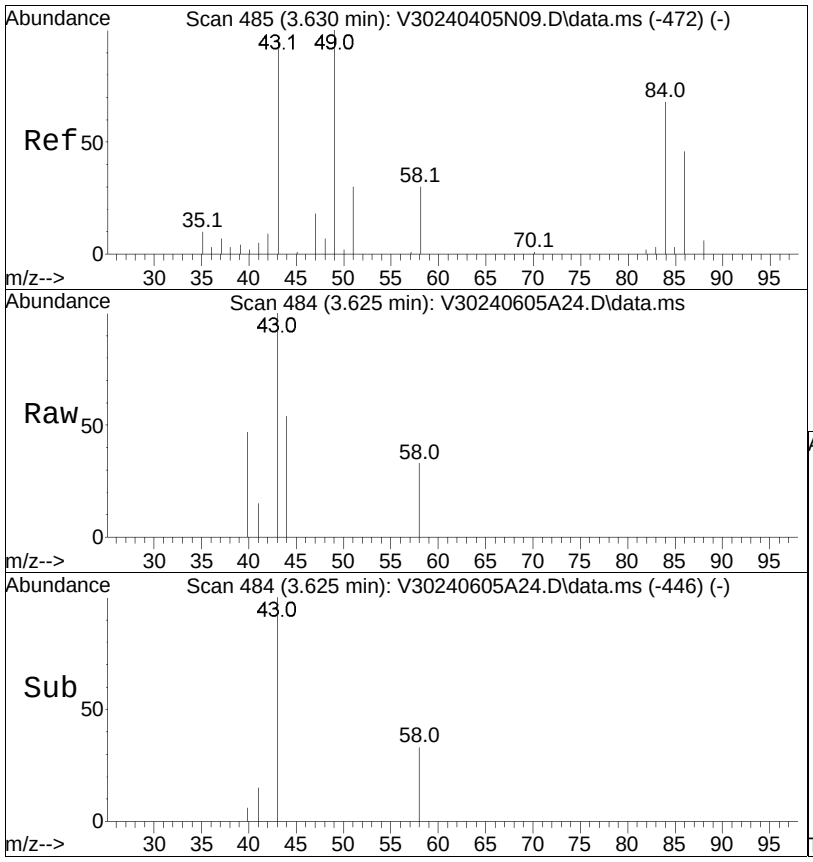
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A24.D
Acq On : 05 Jun 2024 03:13 pm
Operator : VOA130:MKS
Sample : l2430219-11,31,10,10,,a
Misc : WG1930005,ICAL21085
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 05 15:37:57 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

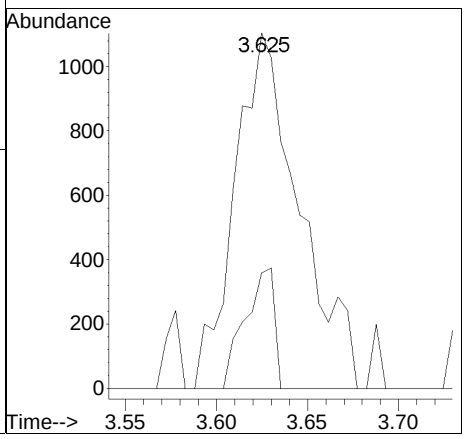




#17
Acetone
Concen: 1.77 ug/L
RT: 3.625 min Scan# 484
Delta R.T. -0.000 min
Lab File: V30240605A24.D
Acq: 05 Jun 2024 03:13 pm

Tgt Ion: 43 Resp: 2715

Ion	Ratio	Lower	Upper
43	100		
58	15.4	20.1	30.1#



Manual Integration Report

Data Path	: K:\VOA130\2024\240605A\	QMethod	: V130_240429A_8260D.m
Data File	: V30240605A24.D	Operator	: VOA130:MKS
Date Inj'd	: 6/5/2024 3:13 pm	Instrument	: VOA130
Sample	: l2430219-11,31,10,10,,a	Quant Date	: 6/5/2024 3:37 pm

There are no manual integrations or false positives in this file.

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Volatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2430219**
Project Name	**: HUNTINGTON READY MIXED**	**Project Number**	**: 20116**
Instrument ID	**: VOA130**	**Ical Ref**	**: ICAL21085**
Calibration dates	**: 04/29/24 17:24 04/29/24 20:40**		

Calibration Files
L11 =V30240429A06.D L1 =V30240429A03.D L2 =V30240429A07.D L3 =V30240429A08.D L4 =V30240429A09.D
L6 =V30240429A10.D L8 =V30240429A11.D L10 =V30240429A12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------									
2)	TP	Dichlorodifluo		0.174	0.213	0.185	0.199	0.180	0.185	0.169	0.186	8.09
3)	TP	Chloromethane		0.197	0.210	0.182	0.192	0.181	0.190	0.173	0.189	6.35
4)	TC	Vinyl chloride	0.193	0.187	0.228	0.201	0.211	0.192	0.201	0.183	0.200	7.26
5)	TP	Bromomethane		0.102	0.120	0.112	0.116	0.111	0.119	0.110	0.113	5.50
6)	TP	Chloroethane		0.149	0.143	0.118	0.118	0.104	0.112		0.124	14.53
7)	TP	Trichlorofluor		0.210	0.263	0.232	0.251	0.228	0.236	0.215	0.233	8.13
8)	TP	Ethyl ether		0.081	0.088	0.085	0.089	0.085	0.087	0.081	0.085	3.82
10)	TC	1,1-Dichloroet		0.165	0.184	0.160	0.172	0.157	0.165	0.151	0.165	6.50
11)	TP	Carbon disulfide		0.472	0.503	0.435	0.457	0.425	0.440	0.405	0.448	7.22
12)	TP	Freon-113		0.137	0.176	0.161	0.179	0.163	0.168	0.155	0.163	8.68
13)	TP	Iodomethane		0.170	0.230	0.223	0.246	0.238	0.254	0.234	0.228	12.09
14)	TP	Acrolein			0.021	0.019	0.018	0.017	0.017	0.017	0.018	8.67
15)	TP	Methylene chlo		0.223	0.213	0.187	0.188	0.173	0.180	0.164	0.190	11.11
17)	TP	Acetone			0.049	0.040	0.037	0.036	0.036	0.034	0.039	14.15
18)	TP	trans-1,2-Dich		0.178	0.197	0.175	0.182	0.168	0.176	0.161	0.177	6.37
19)	TP	Methyl acetate			0.098	0.086	0.084	0.082	0.082	0.080	0.085	7.79
21)	TP	Methyl tert butyl ether		0.318	0.349	0.381	0.435	0.430	0.440	0.410	0.395	11.91
22)	TP	tert-Butyl alc		0.010	0.011	0.012	0.012	0.013	0.012	0.012	0.012	7.36
24)	TP	Diisopropyl ether		0.423	0.457	0.437	0.501	0.485	0.511	0.468	0.469	6.92
25)	TP	1,1-Dichloroet		0.338	0.376	0.338	0.343	0.313	0.326	0.294	0.332	7.74
26)	TP	Halothane		0.118	0.144	0.135	0.146	0.134	0.140	0.128	0.135	7.20
27)	TP	Acrylonitrile		0.054	0.047	0.045	0.043	0.042	0.042	0.041	0.045	10.09
28)	TP	Ethyl tert-but		0.372	0.403	0.416	0.490	0.488	0.512	0.472	0.450	11.75
29)	TP	Vinyl acetate		0.238	0.238	0.239	0.281	0.283	0.259	0.237	0.254	8.20
30)	TP	cis-1,2-Dichlo		0.212	0.232	0.208	0.208	0.191	0.200	0.182	0.205	7.86
31)	TP	2,2-Dichloropr		0.273	0.301	0.271	0.279	0.251	0.261	0.234	0.267	8.06
33)	TP	Bromochloromet		0.086	0.104	0.096	0.098	0.091	0.094	0.086	0.093#	7.06
34)	TP	Cyclohexane		0.265	0.287	0.275	0.317	0.291	0.301	0.277	0.288	6.09
35)	TC	Chloroform		0.343	0.359	0.322	0.330	0.299	0.312	0.283	0.321	8.06
36)	TP	Ethyl acetate		0.081	0.098	0.105	0.117	0.121	0.119	0.116	0.108	13.43
37)	TP	Carbon tetrachloride	0.171	0.186	0.230	0.213	0.243	0.227	0.240	0.222	0.216	11.81
38)	TP	Tetrahydrofuran		0.029	0.037	0.035	0.036	0.034	0.034	0.033	0.034	7.20
39)	S	Dibromofluoromethane	0.315	0.313	0.310	0.294	0.274	0.264	0.262	0.260	0.287	8.40
40)	TP	1,1,1-Trichlor		0.241	0.284	0.265	0.287	0.263	0.275	0.252	0.267	6.26
42)	TP	2-Butanone			0.041	0.047	0.052	0.055	0.054	0.053	0.050	10.47

Initial Calibration Summary
Form 6
Volatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2430219**
Project Name	**: HUNTINGTON READY MIXED**	**Project Number**	**: 20116**
Instrument ID	**: VOA130**	**Ical Ref**	**: ICAL21085**
Calibration dates	**: 04/29/24 17:24 04/29/24 20:40**		

Calibration Files
L11 =V30240429A06.D L1 =V30240429A03.D L2 =V30240429A07.D L3 =V30240429A08.D L4 =V30240429A09.D
L6 =V30240429A10.D L8 =V30240429A11.D L10 =V30240429A12.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
43) TP	1,1-Dichloropr		0.168	0.210	0.212	0.254	0.238	0.249	0.229	0.223	13.21
45) TP	Benzene	0.595	0.596	0.665	0.629	0.701	0.662	0.691	0.621	0.645	6.36
46) TP	Tertiary-Amyl Methyl Ether		0.355	0.376	0.370	0.421	0.420	0.439	0.411	0.399	7.98
47) S	1,2-Dichloroethane-d4	0.324	0.319	0.327	0.328	0.293	0.295	0.281	0.287	0.307	6.41
48) TP	1,2-Dichloroet		0.227	0.240	0.226	0.231	0.218	0.222	0.205	0.224	4.92
51) TP	Methyl cyclohe		0.211	0.255	0.239	0.291	0.283	0.296	0.277	0.265	11.75
52) TP	Trichloroethene	0.174	0.153	0.166	0.166	0.195	0.186	0.199	0.183	0.178#	8.92
54) TP	Dibromomethane		0.100	0.109	0.104	0.106	0.101	0.104	0.098	0.103	3.68
55) TC	1,2-Dichloropr		0.146	0.160	0.166	0.187	0.178	0.186	0.171	0.171	8.71
57) TP	2-Chloroethyl		0.068	0.080	0.085	0.095	0.092	0.096	0.090	0.087	11.40
58) TP	Bromodichlorom		0.218	0.232	0.230	0.251	0.239	0.249	0.229	0.235#	4.93
61) TP	1,4-Dioxane		0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001#	4.97
62) TP	cis-1,3-Dichlo		0.209	0.244	0.252	0.291	0.284	0.296	0.273	0.264#	11.87
63) I	Chlorobenzene-d5	----------ISTD----------									
64) S	Toluene-d8	1.318	1.323	1.304	1.308	1.312	1.308	1.317	1.300	1.311	0.58
65) TC	Toluene		0.500	0.546	0.528	0.589	0.550	0.585	0.526	0.546	5.90
66) TP	4-Methyl-2-pen		0.042	0.050	0.053	0.058	0.058	0.059	0.057	0.054	11.39
67) TP	Tetrachloroethene		0.181	0.217	0.207	0.245	0.235	0.253	0.231	0.224	10.89
69) TP	trans-1,3-Dich		0.204	0.237	0.272	0.335	0.340	0.358	0.330	0.297#	19.94
71) TP	Ethyl methacry		0.215	0.202	0.216	0.237	0.228	0.230	0.211	0.220	5.60
72) TP	1,1,2-Trichlor		0.113	0.122	0.136	0.162	0.166	0.172	0.162	0.147#	16.02
73) TP	Chlorodibromom		0.142	0.157	0.177	0.222	0.230	0.245		*Q	0.9992
74) TP	1,3-Dichloropr		0.217	0.260	0.283	0.333	0.335	0.350	0.324	0.300	16.14
75) TP	1,2-Dibromoethane		0.125	0.144	0.161	0.191	0.193	0.200	0.189	0.172#	16.82
77) TP	2-Hexanone		0.078	0.079	0.094	0.101	0.101	0.101	0.095	0.093	10.87
78) T	Chlorobenzene		0.525	0.598	0.575	0.641	0.603	0.638	0.574	0.593	6.78
79) TC	Ethylbenzene		0.884	1.046	1.005	1.130	1.037	1.086	0.957	1.021	7.99
80) T	1,1,1,2-Tetrac		0.147	0.167	0.175	0.216	0.217	0.237	0.220	0.197	17.09
81) TP	p/m Xylene		0.377	0.418	0.404	0.450	0.412	0.431	0.381	0.411	6.38
82) TP	o Xylene		0.369	0.407	0.398	0.437	0.400	0.417	0.369	0.400	6.18
83) TP	Styrene		0.613	0.672	0.662	0.727	0.659	0.679	0.583	0.656	7.10
84) I	1,4-Dichlorobenzene-d4	----------ISTD----------									
85) TP	Bromoform		0.160	0.173	0.186	0.225	0.238	0.254	0.247	0.212	18.02
87) TP	Isopropylbenzene		1.490	1.772	1.758	1.988	1.830	1.927	1.694	1.780	9.16
88) S	4-Bromofluorobenzene	0.928	0.912	0.924	0.912	0.900	0.895	0.896	0.894	0.908	1.48
89) TP	Bromobenzene		0.414	0.473	0.451	0.492	0.466	0.498	0.452	0.464	6.11

Initial Calibration Summary
Form 6
Volatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2430219**
Project Name	**: HUNTINGTON READY MIXED**	**Project Number**	**: 20116**
Instrument ID	**: VOA130**	**Ical Ref**	**: ICAL21085**
Calibration dates	**: 04/29/24 17:24 04/29/24 20:40**		

Calibration Files
L11 =V30240429A06.D L1 =V30240429A03.D L2 =V30240429A07.D L3 =V30240429A08.D L4 =V30240429A09.D
L6 =V30240429A10.D L8 =V30240429A11.D L10 =V30240429A12.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
90) TP	n-Propylbenzene		1.855	2.116	2.089	2.379	2.182	2.269	1.968	2.123	8.32
91) TP	1,4-Dichlorobu		0.423	0.468	0.457	0.499	0.481	0.498	0.463	0.470	5.62
92) TP	1,1,2,2-Tetrac		0.339	0.360	0.349	0.382	0.380	0.383	0.365	0.365	4.72
93) TP	4-Ethyltoluene		1.530	1.799	1.797	2.021	1.866	1.954	1.716	1.812	8.89
94) TP	2-Chlorotoluene		1.206	1.342	1.296	1.421	1.313	1.391	1.244	1.316	5.81
95) TP	1,3,5-Trimethy		1.328	1.527	1.548	1.775	1.653	1.721	1.511	1.580	9.51
96) TP	1,2,3-Trichlor		0.264	0.287	0.283	0.304	0.300	0.311	0.296	0.292	5.35
97) TP	trans-1,4-Dich		0.105	0.106	0.098	0.105	0.106	0.108	0.103	0.105	3.21
98) TP	4-Chlorotoluene		1.247	1.375	1.360	1.491	1.387	1.461	1.305	1.375	6.12
99) TP	tert-Butylbenzene		1.062	1.265	1.261	1.443	1.350	1.421	1.270	1.296	9.84
102) TP	1,2,4-Trimethy		1.256	1.423	1.478	1.724	1.628	1.710	1.503	1.532	10.96
103) TP	sec-Butylbenzene		1.493	1.800	1.819	2.097	1.970	2.037	1.789	1.858	10.87
104) TP	p-Isopropyltol		1.264	1.530	1.601	1.839	1.744	1.815	1.591	1.626	12.23
105) TP	1,3-Dichlorobe		0.770	0.884	0.868	0.958	0.902	0.957	0.862	0.886	7.27
106) TP	1,4-Dichlorobe		0.816	0.894	0.884	0.972	0.917	0.972	0.868	0.903	6.24
107) TP	p-Diethylbenzene		0.712	0.859	0.915	1.097	1.066	1.135	1.016	0.971	15.52
108) TP	n-Butylbenzene		0.995	1.198	1.280	1.554	1.497	1.554	1.376	1.350	15.39
109) TP	1,2-Dichlorobe		0.751	0.842	0.845	0.925	0.872	0.925	0.827	0.855	7.09
110) TP	1,2,4,5-Tetram		1.111	1.244	1.289	1.551	1.578	1.696	1.506	1.425	14.87
111) TP	1,2-Dibromo-3-		0.051	0.057	0.060	0.066	0.069	0.072	0.069	0.063	11.94
112) TP	1,3,5-Trichlor		0.491	0.553	0.578	0.678	0.694	0.746	0.671	0.630	14.43
113) TP	Hexachlorobuta		0.152	0.180	0.189	0.228	0.230	0.248	0.230	0.208	16.62
114) TP	1,2,4-Trichlor		0.445	0.517	0.538	0.621	0.632	0.669	0.611	0.576	13.66
115) TP	Naphthalene		1.141	1.258	1.318	1.417	1.424	1.437	1.310	1.329	8.09
116) TP	1,2,3-Trichlor		0.451	0.512	0.530	0.587	0.587	0.613	0.562	0.549	10.11

Response Factor Report VOA130

Method Path : K:\VOA130\2024\240429ICAL\
Method File : V130_240429A_8260D.m
Title : VOLATILES BY GC/MS
Last Update : Wed May 01 12:12:17 2024
Response Via : Initial Calibration

Calibration Files
L11 =V30240429A06.D L1 =V30240429A03.D L2 =V30240429A07.D L3 =V30240429A08.D L4 =V30240429A09.D
L6 =V30240429A10.D L8 =V30240429A11.D L10 =V30240429A12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------									
2)	TP	Dichlorodifluo...		0.174	0.213	0.185	0.199	0.180	0.185	0.169	0.186	8.09
3)	TP	Chloromethane		0.197	0.210	0.182	0.192	0.181	0.190	0.173	0.189	6.35
4)	TC	Vinyl chloride	0.193	0.187	0.228	0.201	0.211	0.192	0.201	0.183	0.200	7.26
5)	TP	Bromomethane		0.102	0.120	0.112	0.116	0.111	0.119	0.110	0.113	5.50
6)	TP	Chloroethane		0.149	0.143	0.118	0.118	0.104	0.112		0.124	14.53
7)	TP	Trichlorofluor...		0.210	0.263	0.232	0.251	0.228	0.236	0.215	0.233	8.13
8)	TP	Ethyl ether		0.081	0.088	0.085	0.089	0.085	0.087	0.081	0.085	3.82
10)	TC	1,1-Dichloroet...		0.165	0.184	0.160	0.172	0.157	0.165	0.151	0.165	6.50
11)	TP	Carbon disulfide		0.472	0.503	0.435	0.457	0.425	0.440	0.405	0.448	7.22
12)	TP	Freon-113		0.137	0.176	0.161	0.179	0.163	0.168	0.155	0.163	8.68
13)	TP	Iodomethane		0.170	0.230	0.223	0.246	0.238	0.254	0.234	0.228	12.09
14)	TP	Acrolein			0.021	0.019	0.018	0.017	0.017	0.017	0.018	8.67
15)	TP	Methylene chlo...		0.223	0.213	0.187	0.188	0.173	0.180	0.164	0.190	11.11
17)	TP	Acetone			0.049	0.040	0.037	0.036	0.036	0.034	0.039	14.15
18)	TP	trans-1,2-Dich...		0.178	0.197	0.175	0.182	0.168	0.176	0.161	0.177	6.37
19)	TP	Methyl acetate			0.098	0.086	0.084	0.082	0.082	0.080	0.085	7.79
21)	TP	Methyl tert-bu...		0.318	0.349	0.381	0.435	0.430	0.440	0.410	0.395	11.91
22)	TP	tert-Butyl alc...		0.010	0.011	0.012	0.012	0.013	0.012	0.012	0.012	7.36
24)	TP	Diisopropyl ether		0.423	0.457	0.437	0.501	0.485	0.511	0.468	0.469	6.92
25)	TP	1,1-Dichloroet...		0.338	0.376	0.338	0.343	0.313	0.326	0.294	0.332	7.74
26)	TP	Halothane		0.118	0.144	0.135	0.146	0.134	0.140	0.128	0.135	7.20
27)	TP	Acrylonitrile		0.054	0.047	0.045	0.043	0.042	0.042	0.041	0.045	10.09
28)	TP	Ethyl tert-but...		0.372	0.403	0.416	0.490	0.488	0.512	0.472	0.450	11.75
29)	TP	Vinyl acetate		0.238	0.238	0.239	0.281	0.283	0.259	0.237	0.254	8.20
30)	TP	cis-1,2-Dichlo...		0.212	0.232	0.208	0.208	0.191	0.200	0.182	0.205	7.86
31)	TP	2,2-Dichloropr...		0.273	0.301	0.271	0.279	0.251	0.261	0.234	0.267	8.06
33)	TP	Bromochloromet...		0.086	0.104	0.096	0.098	0.091	0.094	0.086	0.093#	7.06
34)	TP	Cyclohexane		0.265	0.287	0.275	0.317	0.291	0.301	0.277	0.288	6.09
35)	TC	Chloroform		0.343	0.359	0.322	0.330	0.299	0.312	0.283	0.321	8.06
36)	TP	Ethyl acetate		0.081	0.098	0.105	0.117	0.121	0.119	0.116	0.108	13.43

Response Factor Report VOA130

Method Path : K:\VOA130\2024\240429ICAL\
Method File : V130_240429A_8260D.m
Title : VOLATILES BY GC/MS
Last Update : Wed May 01 12:12:17 2024
Response Via : Initial Calibration

Calibration Files
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L6 =V30240429A10.D L8 =V30240429A11.D L10 =V30240429A12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
37)	TP	Carbon tetrach...	0.171	0.186	0.230	0.213	0.243	0.227	0.240	0.222	0.216	11.81
38)	TP	Tetrahydrofuran		0.029	0.037	0.035	0.036	0.034	0.034	0.033	0.034	7.20
39)	S	Dibromofluorom...	0.315	0.313	0.310	0.294	0.274	0.264	0.262	0.260	0.287	8.40
40)	TP	1,1,1-Trichlor...		0.241	0.284	0.265	0.287	0.263	0.275	0.252	0.267	6.26
42)	TP	2-Butanone			0.041	0.047	0.052	0.055	0.054	0.053	0.050	10.47
43)	TP	1,1-Dichloropr...		0.168	0.210	0.212	0.254	0.238	0.249	0.229	0.223	13.21
45)	TP	Benzene	0.595	0.596	0.665	0.629	0.701	0.662	0.691	0.621	0.645	6.36
46)	TP	tert-Amyl meth...		0.355	0.376	0.370	0.421	0.420	0.439	0.411	0.399	7.98
47)	S	1,2-Dichloroet...	0.324	0.319	0.327	0.328	0.293	0.295	0.281	0.287	0.307	6.41
48)	TP	1,2-Dichloroet...		0.227	0.240	0.226	0.231	0.218	0.222	0.205	0.224	4.92
51)	TP	Methyl cyclohe...		0.211	0.255	0.239	0.291	0.283	0.296	0.277	0.265	11.75
52)	TP	Trichloroethene	0.174	0.153	0.166	0.166	0.195	0.186	0.199	0.183	0.178#	8.92
54)	TP	Dibromomethane		0.100	0.109	0.104	0.106	0.101	0.104	0.098	0.103	3.68
55)	TC	1,2-Dichloropr...		0.146	0.160	0.166	0.187	0.178	0.186	0.171	0.171	8.71
57)	TP	2-Chloroethyl ...		0.068	0.080	0.085	0.095	0.092	0.096	0.090	0.087	11.40
58)	TP	Bromodichlorom...		0.218	0.232	0.230	0.251	0.239	0.249	0.229	0.235#	4.93
61)	TP	1,4-Dioxane		0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001#	4.97
62)	TP	cis-1,3-Dichlo...		0.209	0.244	0.252	0.291	0.284	0.296	0.273	0.264#	11.87
63)	I	Chlorobenzene-d5	----------ISTD----------									
64)	S	Toluene-d8	1.318	1.323	1.304	1.308	1.312	1.308	1.317	1.300	1.311	0.58
65)	TC	Toluene		0.500	0.546	0.528	0.589	0.550	0.585	0.526	0.546	5.90
66)	TP	4-Methyl-2-pen...		0.042	0.050	0.053	0.058	0.058	0.059	0.057	0.054	11.39
67)	TP	Tetrachloroethene		0.181	0.217	0.207	0.245	0.235	0.253	0.231	0.224	10.89
69)	TP	trans-1,3-Dich...		0.204	0.237	0.272	0.335	0.340	0.358	0.330	0.297#	19.94
71)	TP	Ethyl methacry...		0.215	0.202	0.216	0.237	0.228	0.230	0.211	0.220	5.60
72)	TP	1,1,2-Trichlor...		0.113	0.122	0.136	0.162	0.166	0.172	0.162	0.147#	16.02
73)	TP	Chlorodibromom...		0.142	0.157	0.177	0.222	0.230	0.245		*Q	0.9992
74)	TP	1,3-Dichloropr...		0.217	0.260	0.283	0.333	0.335	0.350	0.324	0.300	16.14
75)	TP	1,2-Dibromoethane		0.125	0.144	0.161	0.191	0.193	0.200	0.189	0.172#	16.82
77)	TP	2-Hexanone		0.078	0.079	0.094	0.101	0.101	0.101	0.095	0.093	10.87
78)	T	Chlorobenzene		0.525	0.598	0.575	0.641	0.603	0.638	0.574	0.593	6.78

Response Factor Report VOA130

Method Path : K:\VOA130\2024\240429ICAL\
Method File : V130_240429A_8260D.m
Title : VOLATILES BY GC/MS
Last Update : Wed May 01 12:12:17 2024
Response Via : Initial Calibration

Calibration Files
L11 =V30240429A06.D L1 =V30240429A03.D L2 =V30240429A07.D L3 =V30240429A08.D L4 =V30240429A09.D
L6 =V30240429A10.D L8 =V30240429A11.D L10 =V30240429A12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
79)	TC	Ethylbenzene		0.884	1.046	1.005	1.130	1.037	1.086	0.957	1.021	7.99
80)	T	1,1,1,2-Tetrac...		0.147	0.167	0.175	0.216	0.217	0.237	0.220	0.197	17.09
81)	TP	p/m Xylene		0.377	0.418	0.404	0.450	0.412	0.431	0.381	0.411	6.38
82)	TP	o Xylene		0.369	0.407	0.398	0.437	0.400	0.417	0.369	0.400	6.18
83)	TP	Styrene		0.613	0.672	0.662	0.727	0.659	0.679	0.583	0.656	7.10
84)	I	1,4-Dichlorobenzene-d4	----------ISTD----------									
85)	TP	Bromoform		0.160	0.173	0.186	0.225	0.238	0.254	0.247	0.212	18.02
87)	TP	Isopropylbenzene		1.490	1.772	1.758	1.988	1.830	1.927	1.694	1.780	9.16
88)	S	4-Bromofluorob...	0.928	0.912	0.924	0.912	0.900	0.895	0.896	0.894	0.908	1.48
89)	TP	Bromobenzene		0.414	0.473	0.451	0.492	0.466	0.498	0.452	0.464	6.11
90)	TP	n-Propylbenzene		1.855	2.116	2.089	2.379	2.182	2.269	1.968	2.123	8.32
91)	TP	1,4-Dichlorobu...		0.423	0.468	0.457	0.499	0.481	0.498	0.463	0.470	5.62
92)	TP	1,1,2,2-Tetrac...		0.339	0.360	0.349	0.382	0.380	0.383	0.365	0.365	4.72
93)	TP	4-Ethyltoluene		1.530	1.799	1.797	2.021	1.866	1.954	1.716	1.812	8.89
94)	TP	2-Chlorotoluene		1.206	1.342	1.296	1.421	1.313	1.391	1.244	1.316	5.81
95)	TP	1,3,5-Trimethy...		1.328	1.527	1.548	1.775	1.653	1.721	1.511	1.580	9.51
96)	TP	1,2,3-Trichlor...		0.264	0.287	0.283	0.304	0.300	0.311	0.296	0.292	5.35
97)	TP	trans-1,4-Dich...		0.105	0.106	0.098	0.105	0.106	0.108	0.103	0.105	3.21
98)	TP	4-Chlorotoluene		1.247	1.375	1.360	1.491	1.387	1.461	1.305	1.375	6.12
99)	TP	tert-Butylbenzene		1.062	1.265	1.261	1.443	1.350	1.421	1.270	1.296	9.84
102)	TP	1,2,4-Trimethy...		1.256	1.423	1.478	1.724	1.628	1.710	1.503	1.532	10.96
103)	TP	sec-Butylbenzene		1.493	1.800	1.819	2.097	1.970	2.037	1.789	1.858	10.87
104)	TP	p-Isopropyltol...		1.264	1.530	1.601	1.839	1.744	1.815	1.591	1.626	12.23
105)	TP	1,3-Dichlorobe...		0.770	0.884	0.868	0.958	0.902	0.957	0.862	0.886	7.27
106)	TP	1,4-Dichlorobe...		0.816	0.894	0.884	0.972	0.917	0.972	0.868	0.903	6.24
107)	TP	p-Diethylbenzene		0.712	0.859	0.915	1.097	1.066	1.135	1.016	0.971	15.52
108)	TP	n-Butylbenzene		0.995	1.198	1.280	1.554	1.497	1.554	1.376	1.350	15.39
109)	TP	1,2-Dichlorobe...		0.751	0.842	0.845	0.925	0.872	0.925	0.827	0.855	7.09
110)	TP	1,2,4,5-Tetram...		1.111	1.244	1.289	1.551	1.578	1.696	1.506	1.425	14.87
111)	TP	1,2-Dibromo-3-...		0.051	0.057	0.060	0.066	0.069	0.072	0.069	0.063	11.94
112)	TP	1,3,5-Trichlor...		0.491	0.553	0.578	0.678	0.694	0.746	0.671	0.630	14.43

Method Path : K:\VOA130\2024\240429ICAL\
Method File : V130_240429A_8260D.m
Title : VOLATILES BY GC/MS
Last Update : Wed May 01 12:12:17 2024
Response Via : Initial Calibration

Calibration Files
L11 =V30240429A06.D L1 =V30240429A03.D L2 =V30240429A07.D L3 =V30240429A08.D L4 =V30240429A09.D
L6 =V30240429A10.D L8 =V30240429A11.D L10 =V30240429A12.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
113) TP	Hexachlorobuta...	0.152	0.180	0.189	0.228	0.230	0.248	0.230	0.208	16.62	
114) TP	1,2,4-Trichlor...	0.445	0.517	0.538	0.621	0.632	0.669	0.611	0.576	13.66	
115) TP	Naphthalene	1.141	1.258	1.318	1.417	1.424	1.437	1.310	1.329	8.09	
116) TP	1,2,3-Trichlor...	0.451	0.512	0.530	0.587	0.587	0.613	0.562	0.549	10.11	

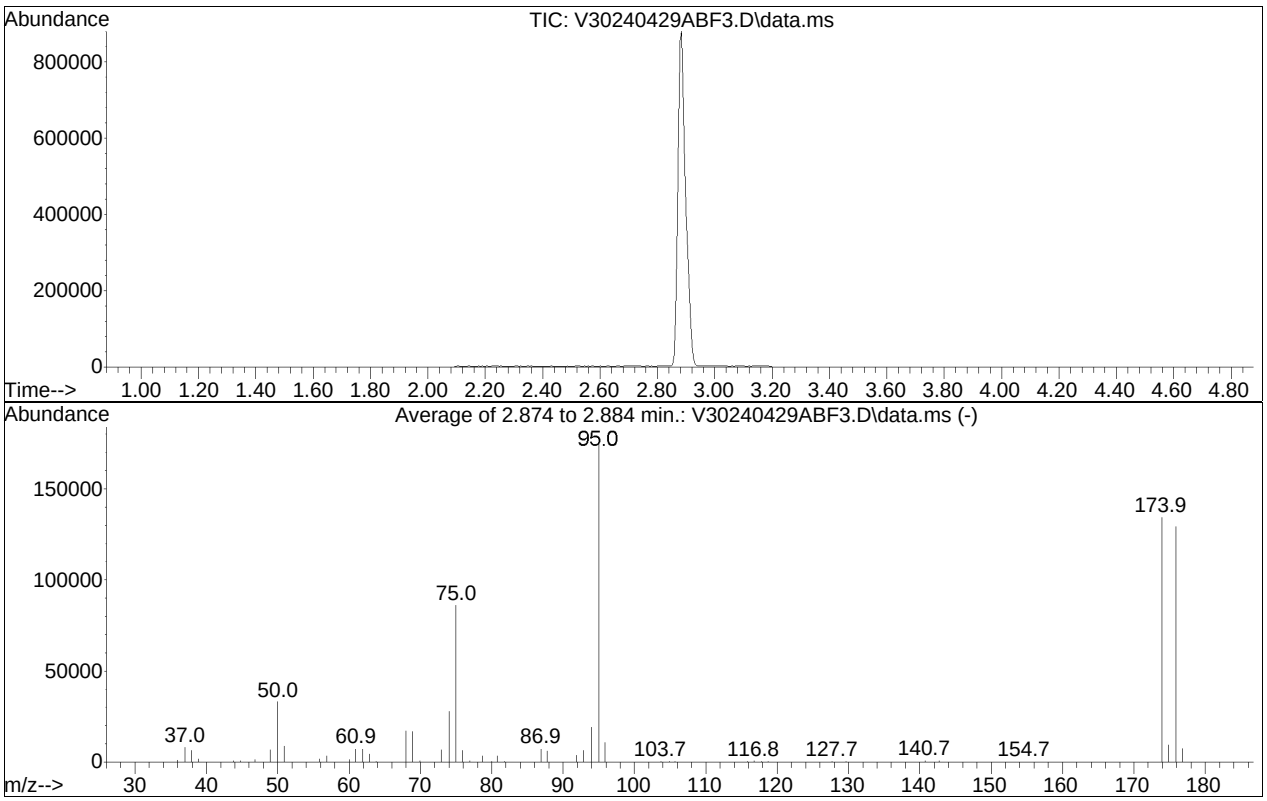
(#) = Out of Range

BFB

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429ABF3.D
Acq On : 29 Apr 2024 04:21 pm
Operator : VOA130:PID
Sample : WG1915725-1
Misc : WG1915725
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Title : VOLATILES BY GC/MS
Last Update : Wed May 01 12:12:17 2024



AutoFind: Scans 150, 151, 152; Background Corrected with Scan 142

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.9	33125	PASS
75	95	30	60	49.2	86269	PASS
95	95	100	100	100.0	175403	PASS
96	95	5	9	6.2	10915	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	76.6	134291	PASS
175	174	5	9	7.2	9618	PASS
176	174	95	101	96.3	129376	PASS
177	176	5	9	5.8	7520	PASS

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A03.D
Acq On : 29 Apr 2024 05:24 pm
Operator : VOA130:PID
Sample : I8260STD0.5PPB
Misc : WG1915725,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 01 12:00:21 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 11:59:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240429ICAL\V30240429A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.115	96	564418	10.000	ug/L	0.00
Standard Area 1 = 569909			Recovery = 99.04%			
63) Chlorobenzene-d5	9.665	117	473328	10.000	ug/L	0.00
Standard Area 1 = 448426			Recovery = 105.55%			
84) 1,4-Dichlorobenzene-d4	12.349	152	262556	10.000	ug/L	0.00
Standard Area 1 = 248100			Recovery = 105.83%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.297	113	176861	10.932	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.32%			
47) 1,2-Dichloroethane-d4	5.827	65	179859	10.386	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.86%			
64) Toluene-d8	7.814	98	625984	10.086	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.86%			
88) 4-Bromofluorobenzene	11.143	95	239554	10.053	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.53%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.680	85	4920	0.468	ug/L	97
3) Chloromethane	1.874	50	5571	0.521	ug/L #	96
4) Vinyl chloride	1.947	62	5279	0.469	ug/L	99
5) Bromomethane	2.267	94	2873M6	0.451	ug/L	
6) Chloroethane	2.377	64	4205M6	0.639	ug/L	
7) Trichlorofluoromethane	2.534	101	5917	0.449	ug/L	87
8) Ethyl ether	2.838	74	2289	0.477	ug/L #	45
10) 1,1-Dichloroethene	3.032	96	4645	0.500	ug/L #	64
11) Carbon disulfide	3.059	76	13334	0.527	ug/L	95
12) Freon-113	3.069	101	3877	0.422	ug/L	91
13) Iodomethane	3.163	142	4787	0.372	ug/L	98
14) Acrolein	3.352	56	1023M3	0.876	ug/L	
15) Methylene chloride	3.588	84	6298	0.588	ug/L	71
17) Acetone	3.620	43	2816	1.053	ug/L #	85
18) trans-1,2-Dichloroethene	3.745	96	5037	0.505	ug/L	77
19) Methyl acetate	3.756	43	4116	0.776	ug/L	99
21) Methyl tert-butyl ether	3.845	73	8986	0.403	ug/L	92
22) tert-Butyl alcohol	3.934	59	1440	2.171	ug/L #	91
24) Diisopropyl ether	4.212	45	11943	0.451	ug/L	97
25) 1,1-Dichloroethane	4.333	63	9529	0.508	ug/L #	92
26) Halothane	4.390	117	3333	0.437	ug/L	99

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A03.D
Acq On : 29 Apr 2024 05:24 pm
Operator : VOA130:PID
Sample : I8260STD0.5PPB
Misc : WG1915725,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 01 12:00:21 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 11:59:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240429ICAL\V30240429A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.369	53	1528	0.601	ug/L	#	73
28) Ethyl tert-butyl ether	4.563	59	10490	0.413	ug/L	#	80
29) Vinyl acetate	4.569	43	6714	0.469	ug/L		99
30) cis-1,2-Dichloroethene	4.852	96	5989	0.518	ug/L	#	78
31) 2,2-Dichloropropane	4.957	77	7707	0.511	ug/L		84
33) Bromochloromethane	5.051	128	2422	0.459	ug/L	#	68
34) Cyclohexane	5.061	56	7484	0.461	ug/L		95
35) Chloroform	5.119	83	9673	0.534	ug/L		93
36) Ethyl acetate	5.234	43	2286	0.374	ug/L	#	63
37) Carbon tetrachloride	5.266	117	5263	0.431	ug/L	#	89
38) Tetrahydrofuran	5.282	42	831M6	0.433	ug/L		
40) 1,1,1-Trichloroethane	5.324	97	6800	0.452	ug/L		89
42) 2-Butanone	0.000		0	N.D.	d		
43) 1,1-Dichloropropene	5.449	75	4742	0.377	ug/L		84
45) Benzene	5.691	78	16811	0.462	ug/L		94
46) tert-Amyl methyl ether	5.816	73	10005	0.444	ug/L		97
48) 1,2-Dichloroethane	5.895	62	6395	0.505	ug/L	#	85
51) Methyl cyclohexane	6.294	83	5957	0.399	ug/L		82
52) Trichloroethene	6.299	95	4305	0.429	ug/L		99
54) Dibromomethane	6.734	93	2813	0.483	ug/L	#	83
55) 1,2-Dichloropropane	6.844	63	4108	0.427	ug/L		97
57) 2-Chloroethyl vinyl ether	7.541	63	1920	0.393	ug/L		94
58) Bromodichloromethane	6.912	83	6165	0.464	ug/L	#	95
61) 1,4-Dioxane	7.117	88	7308	89.874	ug/L	#	92
62) cis-1,3-Dichloropropene	7.610	75	5887	0.395	ug/L		87
65) Toluene	7.877	92	11837	0.458	ug/L		99
66) 4-Methyl-2-pentanone	8.312	58	1002	0.392	ug/L		94
67) Tetrachloroethene	8.333	166	4291	0.405	ug/L	#	88
69) trans-1,3-Dichloropropene	8.359	75	4834	0.344	ug/L	#	73
71) Ethyl methacrylate	8.548	69	5088	0.489	ug/L	#	94
72) 1,1,2-Trichloroethane	8.543	83	2674	0.383	ug/L		93
73) Chlorodibromomethane	8.753	129	3350	0.353	ug/L		98
74) 1,3-Dichloropropane	8.863	76	5137	0.361	ug/L		89
75) 1,2-Dibromoethane	9.036	107	2951	0.363	ug/L		91
77) 2-Hexanone	9.329	43	1855	0.423	ug/L	#	94
78) Chlorobenzene	9.686	112	12429	0.443	ug/L	#	61
79) Ethylbenzene	9.728	91	20922	0.433	ug/L		97
80) 1,1,1,2-Tetrachloroethane	9.764	131	3470	0.372	ug/L	#	64
81) p/m Xylene	9.917	106	17831	0.918	ug/L		93
82) o Xylene	10.451	106	17476	0.924	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A03.D
Acq On : 29 Apr 2024 05:24 pm
Operator : VOA130:PID
Sample : I8260STD0.5PPB
Misc : WG1915725,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 01 12:00:21 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 11:59:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240429ICAL\V30240429A08.D
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
83)	Styrene	10.519	104	29019	0.934	ug/L		92
85)	Bromoform	10.535	173	2096	0.377	ug/L		95
87)	Isopropylbenzene	10.829	105	19556	0.419	ug/L		99
89)	Bromobenzene	11.259	156	5436	0.446	ug/L		98
90)	n-Propylbenzene	11.306	91	24357	0.437	ug/L		100
91)	1,4-Dichlorobutane	11.311	55	5547	0.450	ug/L	#	86
92)	1,1,2,2-Tetrachloroethane	11.385	83	4450	0.464	ug/L		96
93)	4-Ethyltoluene	11.432	105	20091	0.422	ug/L		98
94)	2-Chlorotoluene	11.474	91	15835	0.458	ug/L	#	88
95)	1,3,5-Trimethylbenzene	11.526	105	17428	0.420	ug/L		99
96)	1,2,3-Trichloropropane	11.526	75	3464	0.452	ug/L		92
97)	trans-1,4-Dichloro-2-b...	11.573	53	1379	0.502	ug/L	#	94
98)	4-Chlorotoluene	11.652	91	16370	0.453	ug/L		97
99)	tert-Butylbenzene	11.867	119	13947	0.410	ug/L		96
102)	1,2,4-Trimethylbenzene	11.946	105	16495	0.410	ug/L		96
103)	sec-Butylbenzene	12.061	105	19599	0.402	ug/L		94
104)	p-Isopropyltoluene	12.208	119	16591	0.389	ug/L		97
105)	1,3-Dichlorobenzene	12.276	146	10108	0.435	ug/L		97
106)	1,4-Dichlorobenzene	12.365	146	10711M3	0.452	ug/L		
107)	p-Diethylbenzene	12.585	119	9348	0.367	ug/L		95
108)	n-Butylbenzene	12.643	91	13066	0.369	ug/L		95
109)	1,2-Dichlorobenzene	12.790	146	9854	0.439	ug/L		99
110)	1,2,4,5-Tetramethylben...	13.372	119	14584	0.390	ug/L		95
111)	1,2-Dibromo-3-chloropr...	13.560	155	665	0.400	ug/L		97
112)	1,3,5-Trichlorobenzene	13.602	180	6451	0.390	ug/L		95
113)	Hexachlorobutadiene	14.174	225	1999	0.366	ug/L		95
114)	1,2,4-Trichlorobenzene	14.195	180	5843	0.386	ug/L		98
115)	Naphthalene	14.489	128	14973	0.429	ug/L		100
116)	1,2,3-Trichlorobenzene	14.656	180	5919	0.411	ug/L		96

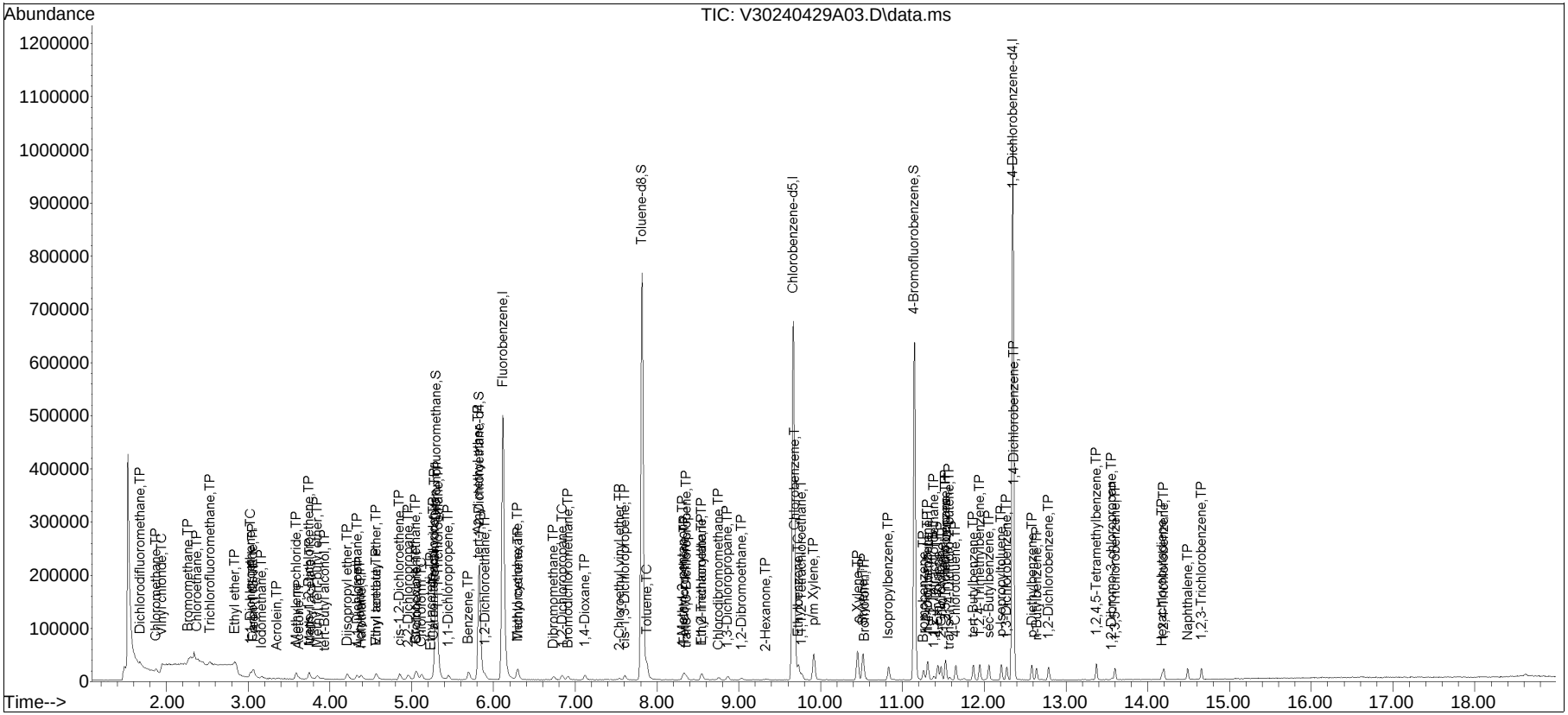
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A03.D
Acq On : 29 Apr 2024 05:24 pm
Operator : VOA130:PID
Sample : I8260STD0.5PPB
Misc : WG1915725,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 01 12:00:21 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 11:59:57 2024
Response via : Initial Calibration

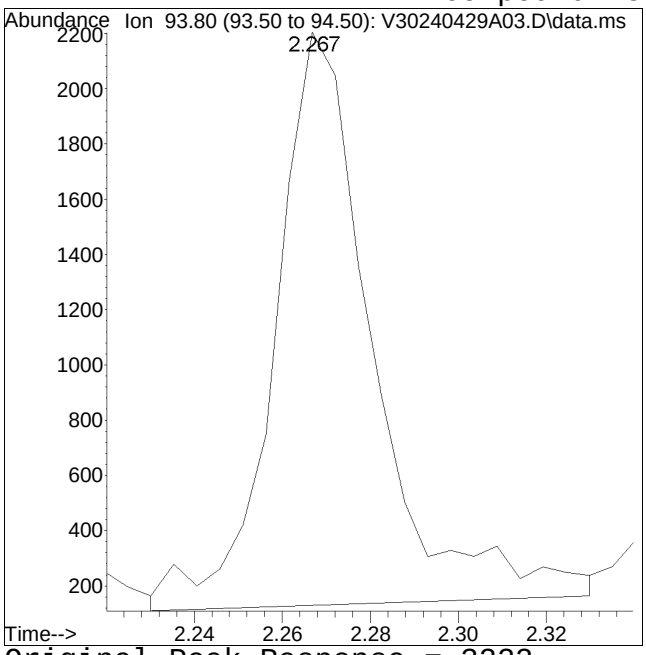
Sub List : 8260-Curve - Megamix plus DioxV30240429A08.D•



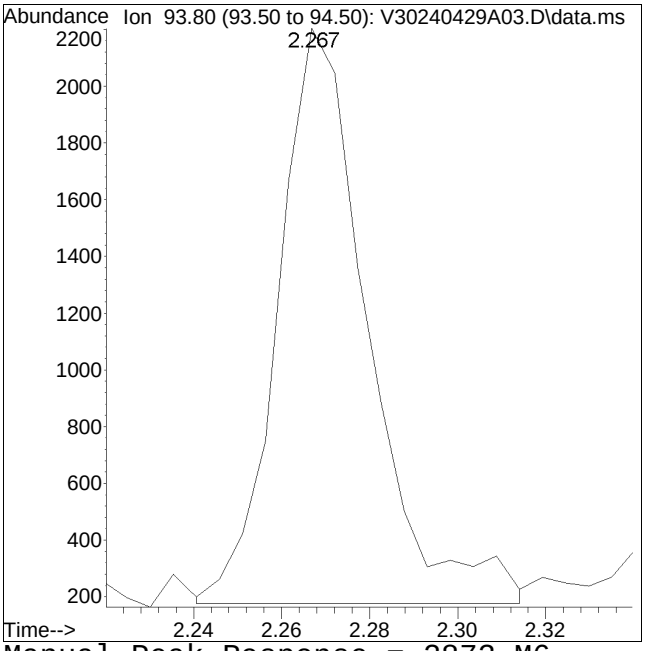
Manual Integration Report

Data Path : K:\VOA130\2024\240429ICAL\QMethod : V130_240429A_8260D.m
Data File : V30240429A03.D Operator : VOA130:PID
Date Inj'd : 4/29/2024 5:24 pm Instrument : VOA130
Sample : I8260STD0.5PPB Quant Date : 5/1/2024 12:00 pm

Compound #5: Bromomethane



Original Peak Response = 3222



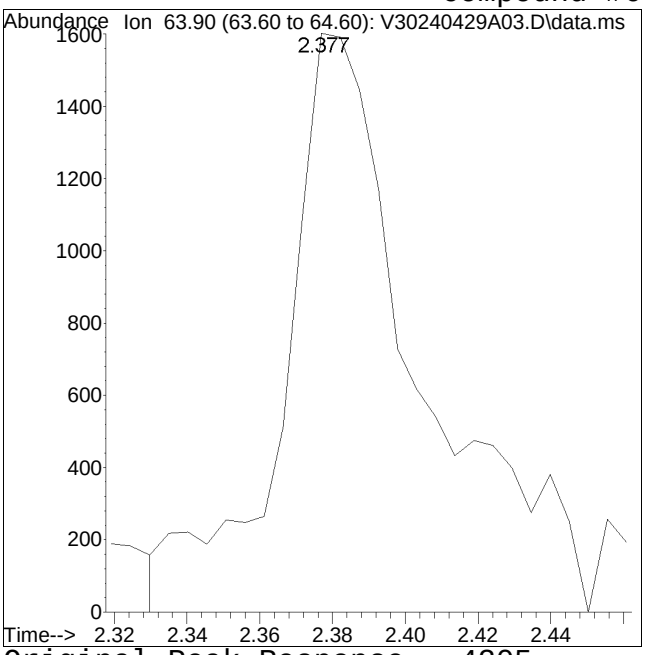
Manual Peak Response = 2873 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

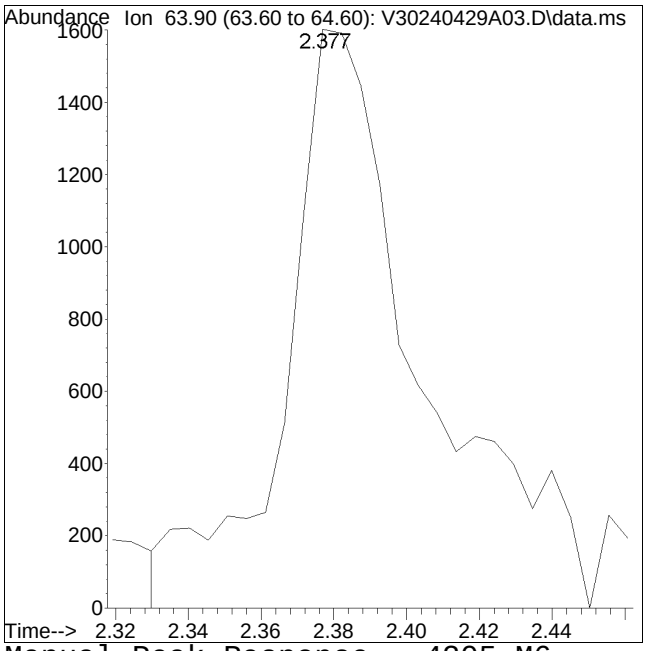
Manual Integration Report

Data Path : K:\VOA130\2024\240429ICAL\QMethod : V130_240429A_8260D.m
Data File : V30240429A03.D Operator : VOA130:PID
Date Inj'd : 4/29/2024 5:24 pm Instrument : VOA130
Sample : I8260STD0.5PPB Quant Date : 5/1/2024 12:00 pm

Compound #6: Chloroethane



Original Peak Response = 4205



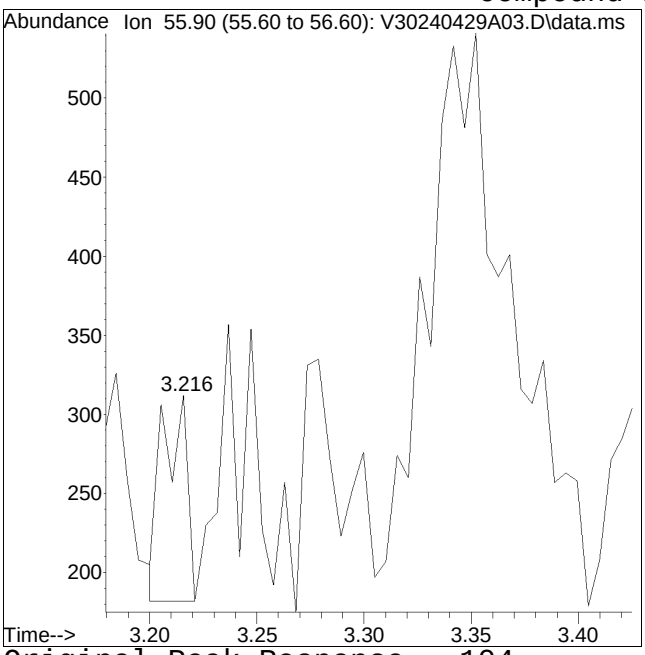
Manual Peak Response = 4205 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

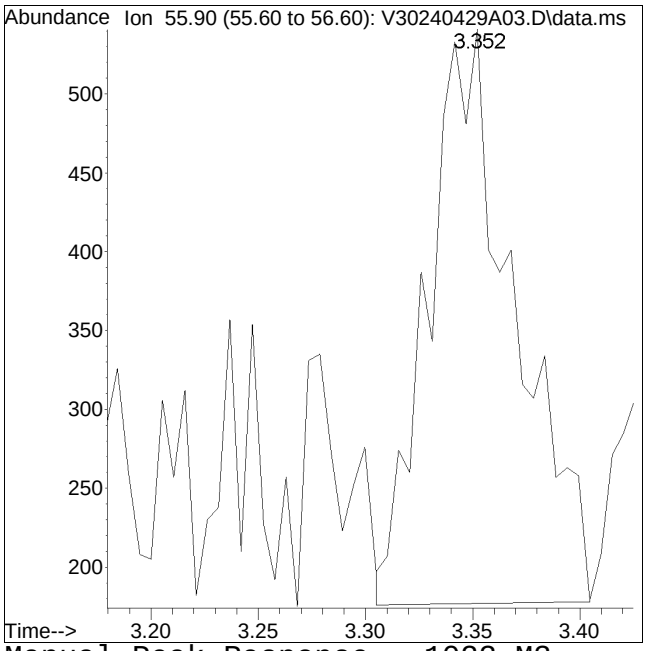
Manual Integration Report

Data Path : K:\VOA130\2024\240429ICAL\QMethod : V130_240429A_8260D.m
Data File : V30240429A03.D Operator : VOA130:PID
Date Inj'd : 4/29/2024 5:24 pm Instrument : VOA130
Sample : I8260STD0.5PPB Quant Date : 5/1/2024 12:00 pm

Compound #14: Acrolein



Original Peak Response = 104



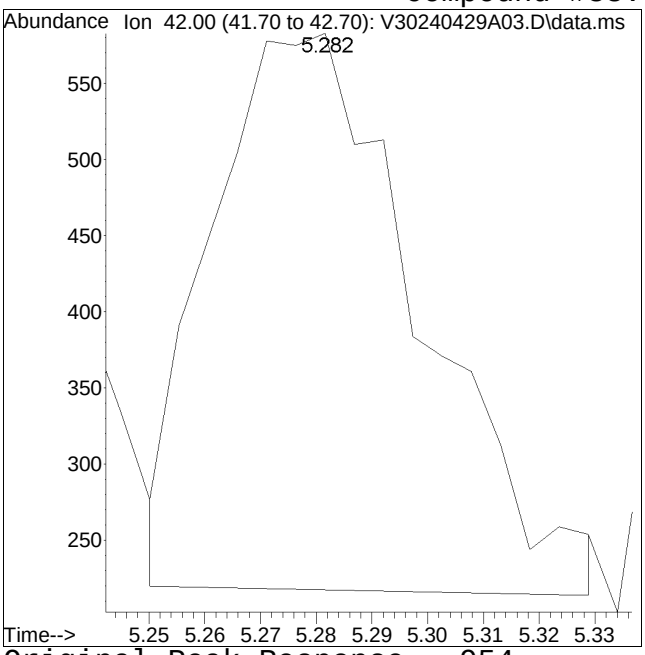
Manual Peak Response = 1023 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

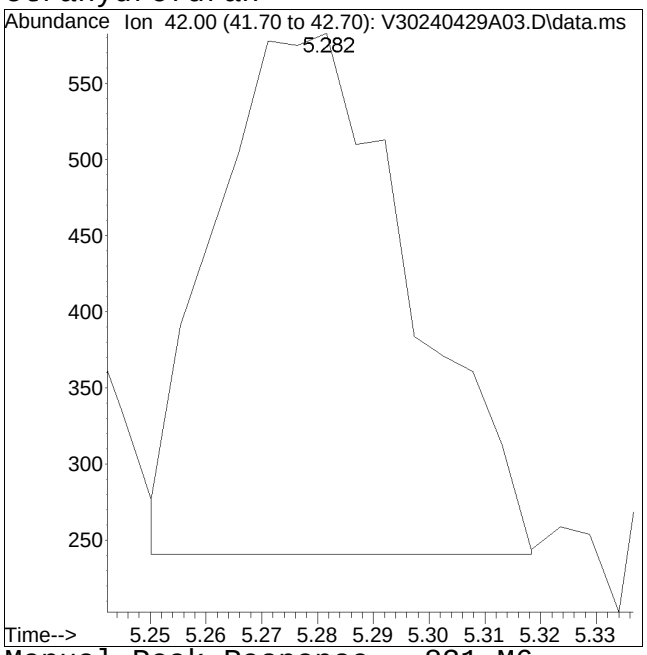
Manual Integration Report

Data Path : K:\VOA130\2024\240429ICAL\QMethod : V130_240429A_8260D.m
Data File : V30240429A03.D Operator : VOA130:PID
Date Inj'd : 4/29/2024 5:24 pm Instrument : VOA130
Sample : I8260STD0.5PPB Quant Date : 5/1/2024 12:00 pm

Compound #38: Tetrahydrofuran



Original Peak Response = 954



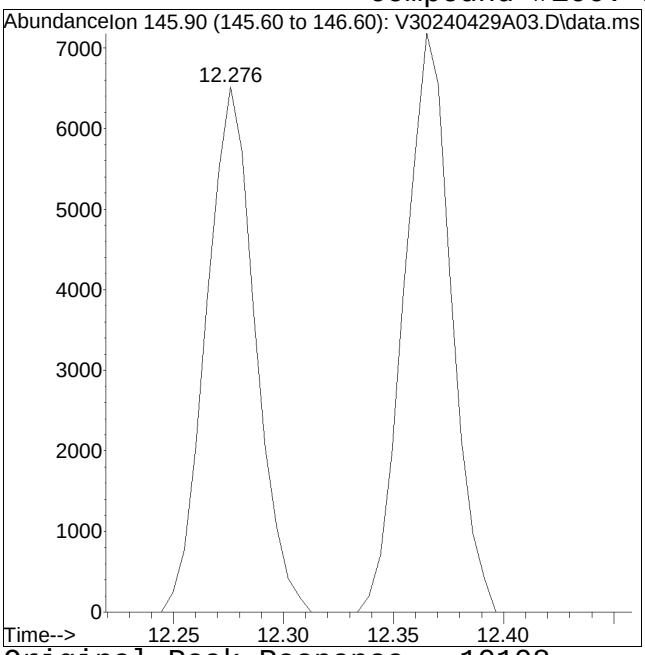
Manual Peak Response = 831 M6

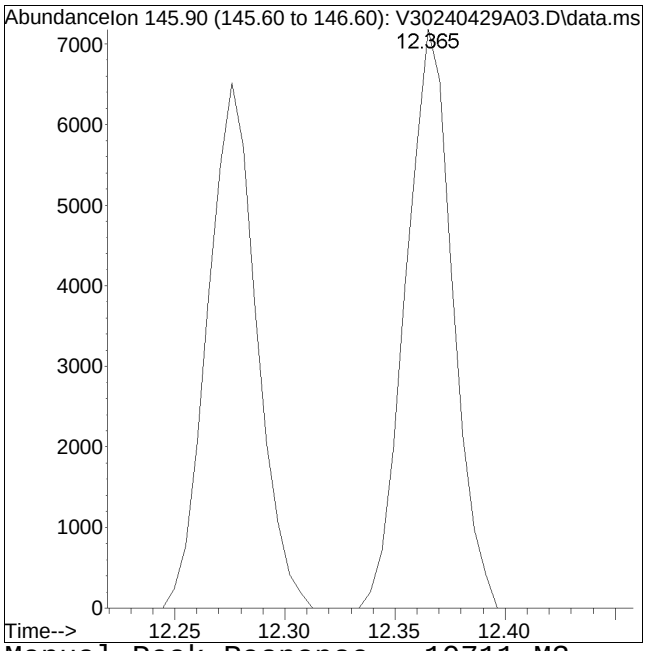
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\VOA130\2024\240429ICAL\QMethod : V130_240429A_8260D.m
Data File : V30240429A03.D Operator : VOA130:PID
Date Inj'd : 4/29/2024 5:24 pm Instrument : VOA130
Sample : I8260STD0.5PPB Quant Date : 5/1/2024 12:00 pm

Compound #106: 1,4-Dichlorobenzene





Original Peak Response = 10108 Manual Peak Response = 10711 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A06.D
Acq On : 29 Apr 2024 06:29 pm
Operator : VOA130:PID
Sample : I8260STD0.19PPB
Misc : WG1915725,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 01 12:00:33 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 11:59:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240429ICAL\V30240429A08.D
Sub List : 8260-L11 - Level 11 for 8260-LRR product

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.115	96	540572	10.000	ug/L	0.00
Standard Area 1 = 569909			Recovery = 94.85%			
63) Chlorobenzene-d5	9.665	117	451964	10.000	ug/L	0.00
Standard Area 1 = 448426			Recovery = 100.79%			
84) 1,4-Dichlorobenzene-d4	12.349	152	245987	10.000	ug/L	0.00
Standard Area 1 = 248100			Recovery = 99.15%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.297	113	170104	10.978	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.78%			
47) 1,2-Dichloroethane-d4	5.827	65	175094	10.557	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.57%			
64) Toluene-d8	7.819	98	595671	10.052	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.52%			
88) 4-Bromofluorobenzene	11.149	95	228156	10.219	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.19%			
Target Compounds						Qvalue
4) Vinyl chloride	1.947	62	1986	0.184	ug/L #	73
37) Carbon tetrachloride	5.266	117	1754	0.150	ug/L #	86
45) Benzene	5.696	78	6107	0.175	ug/L #	82
52) Trichloroethene	6.299	95	1783M6	0.186	ug/L	

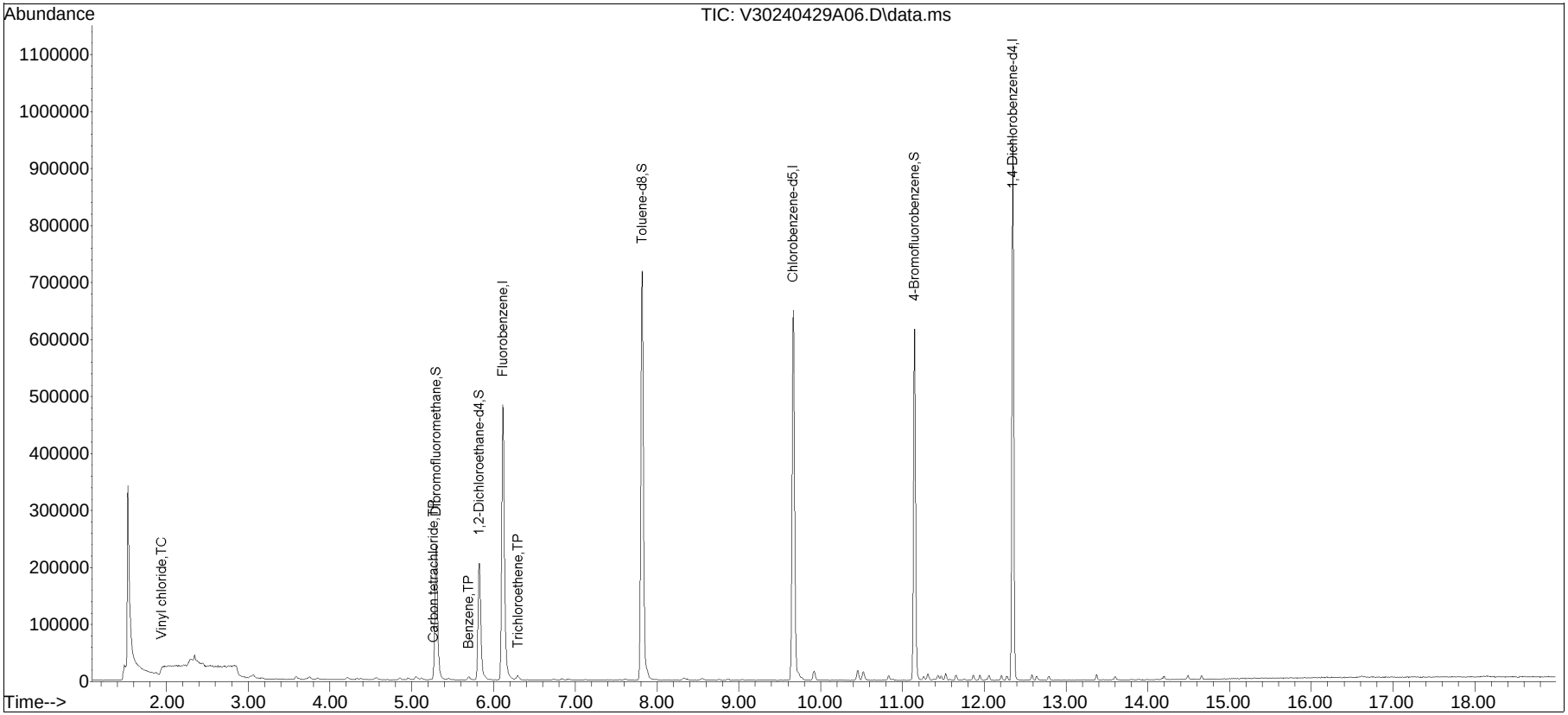
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A06.D
Acq On : 29 Apr 2024 06:29 pm
Operator : VOA130:PID
Sample : I8260STD0.19PPB
Misc : WG1915725,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 01 12:00:33 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 11:59:57 2024
Response via : Initial Calibration

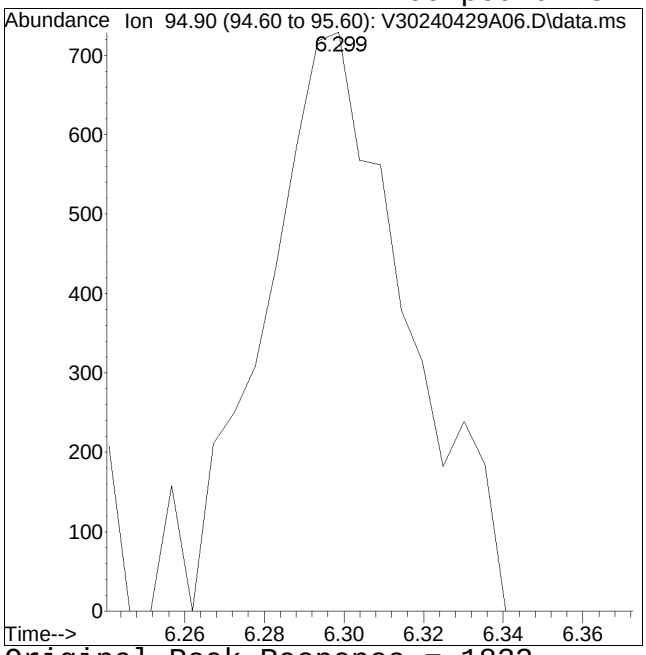
Sub List : 8260-L11 - Level 11 for 8260-LRR product08.D•



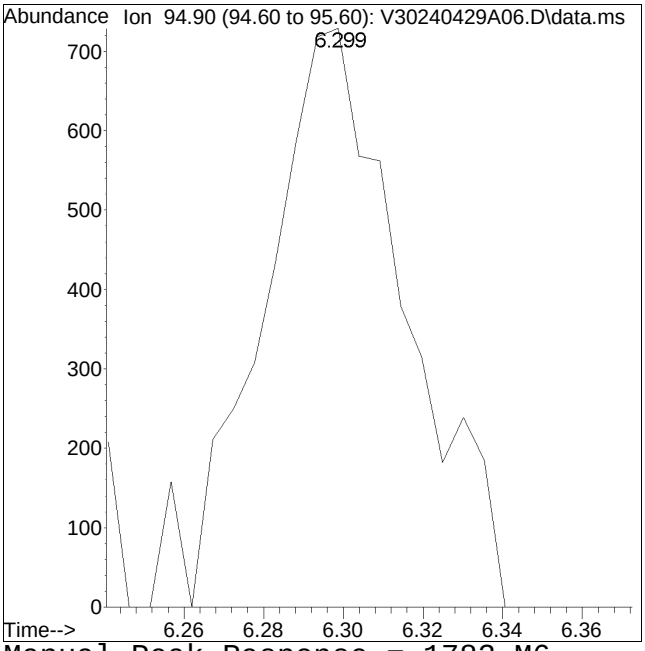
Manual Integration Report

Data Path : K:\VOA130\2024\240429ICAL\QMethod : V130_240429A_8260D.m
Data File : V30240429A06.D Operator : VOA130:PID
Date Inj'd : 4/29/2024 6:29 pm Instrument : VOA130
Sample : I8260STD0.19PPB Quant Date : 5/1/2024 12:00 pm

Compound #52: Trichloroethene



Original Peak Response = 1833



Manual Peak Response = 1783 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A07.D
Acq On : 29 Apr 2024 06:51 pm
Operator : VOA130:PID
Sample : I8260STD2PPB
Misc : WG1915725,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 01 12:00:42 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 11:59:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240429ICAL\V30240429A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.115	96	539986	10.000 ug/L	0.00
Standard Area 1 = 569909			Recovery =	94.75%	
63) Chlorobenzene-d5	9.665	117	448143	10.000 ug/L	0.00
Standard Area 1 = 448426			Recovery =	99.94%	
84) 1,4-Dichlorobenzene-d4	12.349	152	245753	10.000 ug/L	0.00
Standard Area 1 = 248100			Recovery =	99.05%	
System Monitoring Compounds					
39) Dibromofluoromethane	5.297	113	167644	10.831 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	108.31%	
47) 1,2-Dichloroethane-d4	5.827	65	176836	10.674 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	106.74%	
64) Toluene-d8	7.814	98	584155	9.941 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.41%	
88) 4-Bromofluorobenzene	11.149	95	227158	10.184 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.84%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.680	85	22999	2.285 ug/L	97
3) Chloromethane	1.874	50	22665	2.216 ug/L	98
4) Vinyl chloride	1.947	62	24618	2.285 ug/L	99
5) Bromomethane	2.267	94	12946	2.126 ug/L	84
6) Chloroethane	2.377	64	15481	2.459 ug/L	92
7) Trichlorofluoromethane	2.529	101	28436	2.256 ug/L	95
8) Ethyl ether	2.838	74	9519	2.074 ug/L	88
10) 1,1-Dichloroethene	3.027	96	19847	2.231 ug/L #	73
11) Carbon disulfide	3.059	76	54360	2.245 ug/L	97
12) Freon-113	3.069	101	19060	2.169 ug/L #	83
13) Iodomethane	3.169	142	24824	2.019 ug/L	98
14) Acrolein	3.347	56	2229M6	1.996 ug/L	
15) Methylene chloride	3.588	84	22984	2.243 ug/L	75
17) Acetone	3.625	43	5302	2.073 ug/L #	89
18) trans-1,2-Dichloroethene	3.745	96	21251	2.227 ug/L	81
19) Methyl acetate	3.751	43	10601	2.090 ug/L #	89
21) Methyl tert-butyl ether	3.845	73	37677	1.767 ug/L	91
22) tert-Butyl alcohol	3.929	59	5875	9.260 ug/L #	84
24) Diisopropyl ether	4.212	45	49373	1.949 ug/L	94
25) 1,1-Dichloroethane	4.333	63	40592	2.261 ug/L #	97
26) Halothane	4.385	117	15578	2.134 ug/L	98

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A07.D
Acq On : 29 Apr 2024 06:51 pm
Operator : VOA130:PID
Sample : I8260STD2PPB
Misc : WG1915725,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 01 12:00:42 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 11:59:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240429ICAL\V30240429A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.375	53	5117	2.105	ug/L		90
28) Ethyl tert-butyl ether	4.563	59	43562	1.791	ug/L		81
29) Vinyl acetate	4.569	43	25704	1.876	ug/L	#	93
30) cis-1,2-Dichloroethene	4.857	96	25063	2.266	ug/L	#	77
31) 2,2-Dichloropropane	4.957	77	32559	2.257	ug/L		82
33) Bromochloromethane	5.046	128	11228	2.226	ug/L	#	57
34) Cyclohexane	5.061	56	31027	1.997	ug/L		82
35) Chloroform	5.119	83	38767	2.236	ug/L		94
36) Ethyl acetate	5.224	43	10619	1.818	ug/L	#	90
37) Carbon tetrachloride	5.266	117	24793	2.121	ug/L		96
38) Tetrahydrofuran	5.276	42	4005M6	2.182	ug/L		
40) 1,1,1-Trichloroethane	5.329	97	30658	2.129	ug/L		93
42) 2-Butanone	5.418	43	4463M6	1.641	ug/L		
43) 1,1-Dichloropropene	5.449	75	22681	1.886	ug/L		95
45) Benzene	5.696	78	71834	2.063	ug/L		95
46) tert-Amyl methyl ether	5.811	73	40586	1.884	ug/L		95
48) 1,2-Dichloroethane	5.895	62	25952	2.143	ug/L	#	95
51) Methyl cyclohexane	6.294	83	27497	1.925	ug/L		82
52) Trichloroethene	6.299	95	17957	1.871	ug/L		94
54) Dibromomethane	6.734	93	11820	2.120	ug/L	#	88
55) 1,2-Dichloropropane	6.839	63	17330	1.881	ug/L		96
57) 2-Chloroethyl vinyl ether	7.536	63	8649	1.849	ug/L	#	83
58) Bromodichloromethane	6.912	83	25027	1.968	ug/L		97
61) 1,4-Dioxane	7.117	88	32460	417.256	ug/L	#	88
62) cis-1,3-Dichloropropene	7.610	75	26305	1.844	ug/L	#	85
65) Toluene	7.877	92	48935	1.999	ug/L		100
66) 4-Methyl-2-pentanone	8.312	58	4499	1.859	ug/L	#	77
67) Tetrachloroethene	8.333	166	19405	1.933	ug/L	#	91
69) trans-1,3-Dichloropropene	8.359	75	21210	1.596	ug/L	#	80
71) Ethyl methacrylate	8.548	69	18070	1.834	ug/L		89
72) 1,1,2-Trichloroethane	8.543	83	10890	1.648	ug/L		93
73) Chlorodibromomethane	8.753	129	14097	1.569	ug/L		98
74) 1,3-Dichloropropane	8.863	76	23348	1.735	ug/L		100
75) 1,2-Dibromoethane	9.030	107	12876	1.674	ug/L		97
77) 2-Hexanone	9.324	43	7043	1.698	ug/L	#	82
78) Chlorobenzene	9.686	112	53575	2.015	ug/L		88
79) Ethylbenzene	9.728	91	93721	2.049	ug/L		97
80) 1,1,1,2-Tetrachloroethane	9.775	131	15012	1.701	ug/L		97
81) p/m Xylene	9.917	106	75011	4.077	ug/L		92
82) o Xylene	10.451	106	72927	4.072	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A07.D
Acq On : 29 Apr 2024 06:51 pm
Operator : VOA130:PID
Sample : I8260STD2PPB
Misc : WG1915725,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 01 12:00:42 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 11:59:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240429ICAL\V30240429A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
83) Styrene	10.514	104	120520	4.097	ug/L	92
85) Bromoform	10.541	173	8514	1.635	ug/L	98
87) Isopropylbenzene	10.834	105	87082	1.991	ug/L	97
89) Bromobenzene	11.259	156	23250	2.040	ug/L	97
90) n-Propylbenzene	11.306	91	104011	1.994	ug/L	95
91) 1,4-Dichlorobutane	11.316	55	23017	1.993	ug/L	99
92) 1,1,2,2-Tetrachloroethane	11.385	83	17693	1.970	ug/L	99
93) 4-Ethyltoluene	11.432	105	88409	1.985	ug/L	97
94) 2-Chlorotoluene	11.469	91	65979M1	2.040	ug/L	
95) 1,3,5-Trimethylbenzene	11.526	105	75029	1.932	ug/L	97
96) 1,2,3-Trichloropropane	11.521	75	14106	1.965	ug/L	88
97) trans-1,4-Dichloro-2-b...	11.579	53	5226	2.034	ug/L	98
98) 4-Chlorotoluene	11.652	91	67579	2.000	ug/L	93
99) tert-Butylbenzene	11.867	119	62168	1.952	ug/L	94
102) 1,2,4-Trimethylbenzene	11.946	105	69965	1.859	ug/L	95
103) sec-Butylbenzene	12.056	105	88488	1.938	ug/L	94
104) p-Isopropyltoluene	12.208	119	75210	1.882	ug/L	96
105) 1,3-Dichlorobenzene	12.276	146	43458	1.996	ug/L	97
106) 1,4-Dichlorobenzene	12.365	146	43934	1.979	ug/L	97
107) p-Diethylbenzene	12.580	119	42243	1.770	ug/L	95
108) n-Butylbenzene	12.638	91	58874	1.774	ug/L	96
109) 1,2-Dichlorobenzene	12.785	146	41400	1.969	ug/L	98
110) 1,2,4,5-Tetramethylben...	13.372	119	61139	1.746	ug/L	95
111) 1,2-Dibromo-3-chloropr...	13.561	155	2798	1.799	ug/L	97
112) 1,3,5-Trichlorobenzene	13.597	180	27169	1.754	ug/L	96
113) Hexachlorobutadiene	14.174	225	8857	1.731	ug/L	97
114) 1,2,4-Trichlorobenzene	14.195	180	25390	1.794	ug/L	97
115) Naphthalene	14.489	128	61850	1.893	ug/L	100
116) 1,2,3-Trichlorobenzene	14.656	180	25182	1.867	ug/L	98

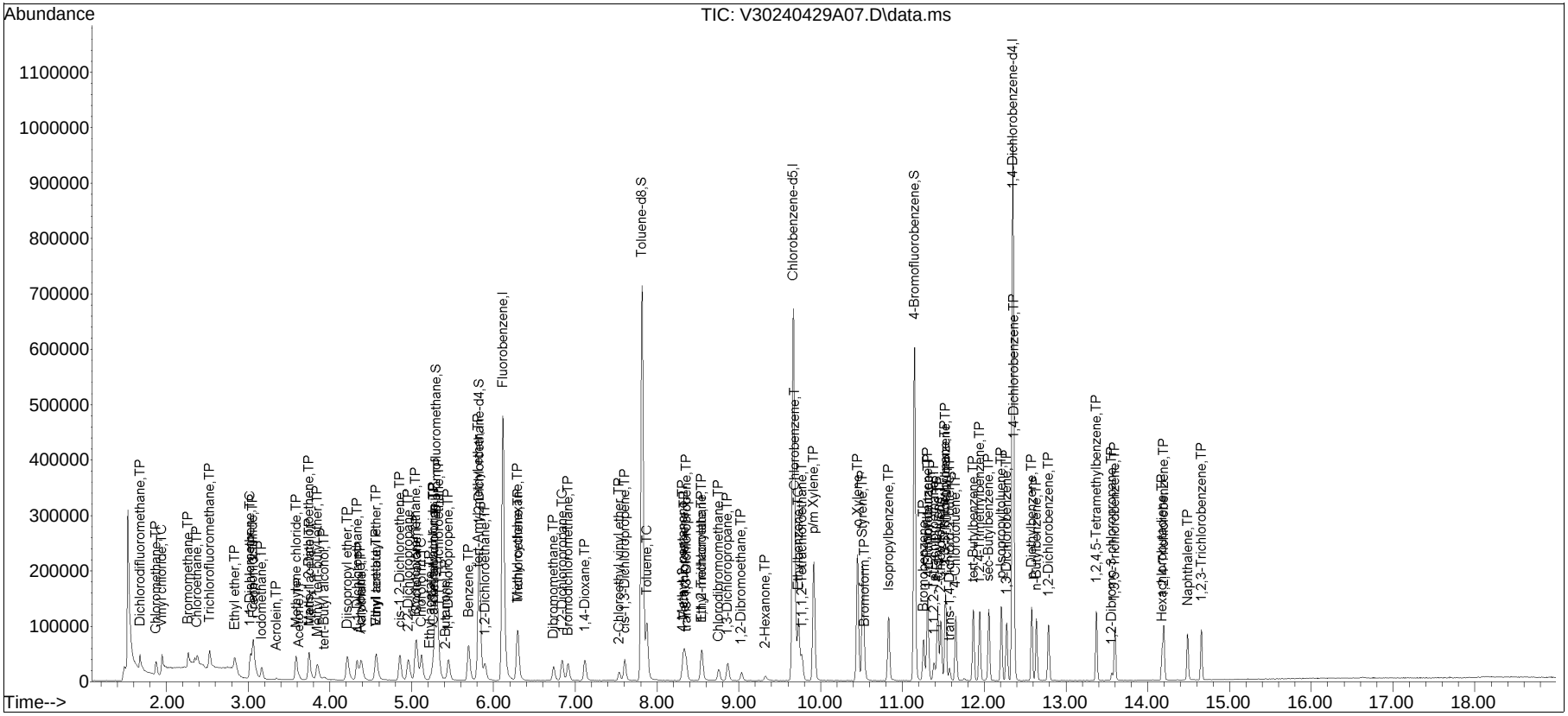
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A07.D
Acq On : 29 Apr 2024 06:51 pm
Operator : VOA130:PID
Sample : I8260STD2PPB
Misc : WG1915725,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 01 12:00:42 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 11:59:57 2024
Response via : Initial Calibration

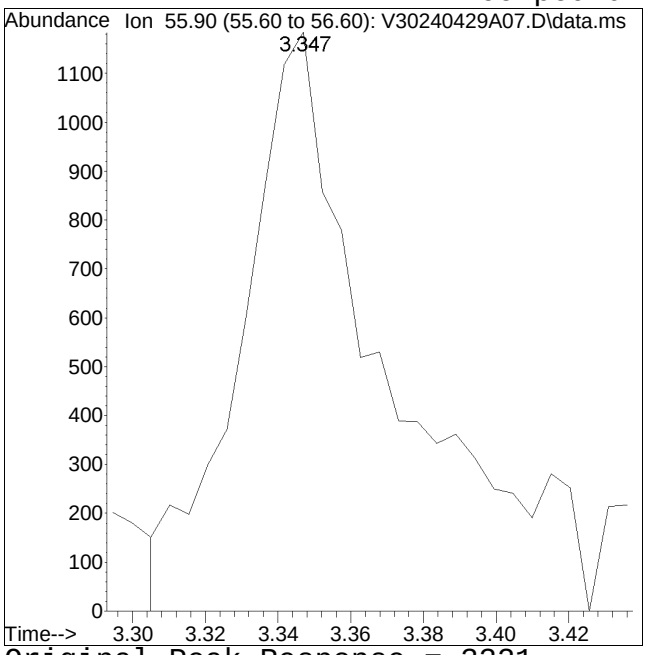
Sub List : 8260-Curve - Megamix plus DioxV30240429A08.D•



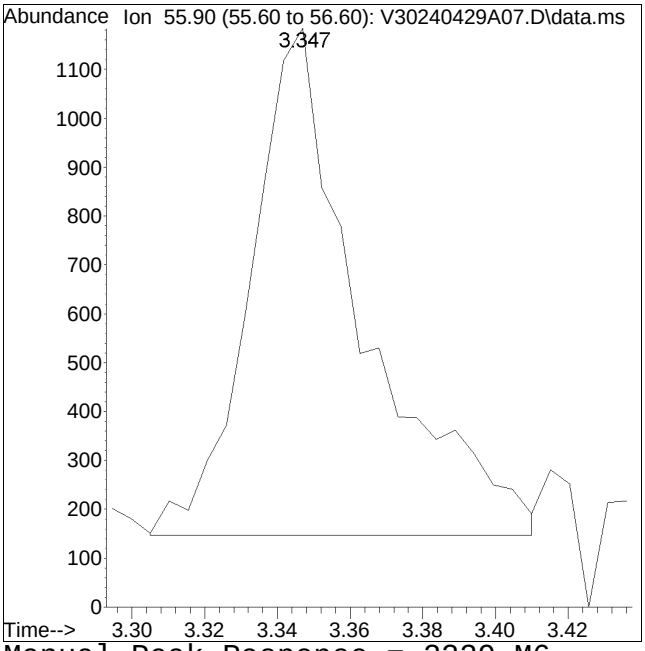
Manual Integration Report

Data Path : K:\VOA130\2024\240429ICAL\QMethod : V130_240429A_8260D.m
Data File : V30240429A07.D Operator : VOA130:PID
Date Inj'd : 4/29/2024 6:51 pm Instrument : VOA130
Sample : I8260STD2PPB Quant Date : 5/1/2024 12:00 pm

Compound #14: Acrolein



Original Peak Response = 3321



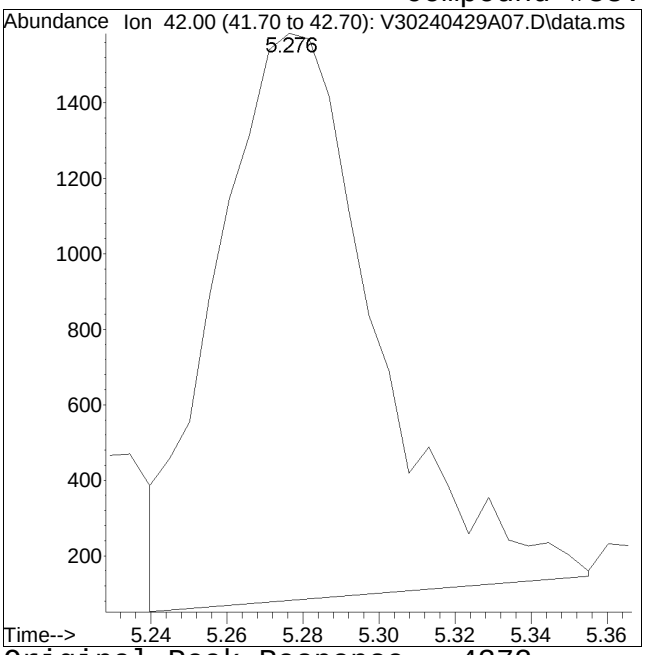
Manual Peak Response = 2229 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

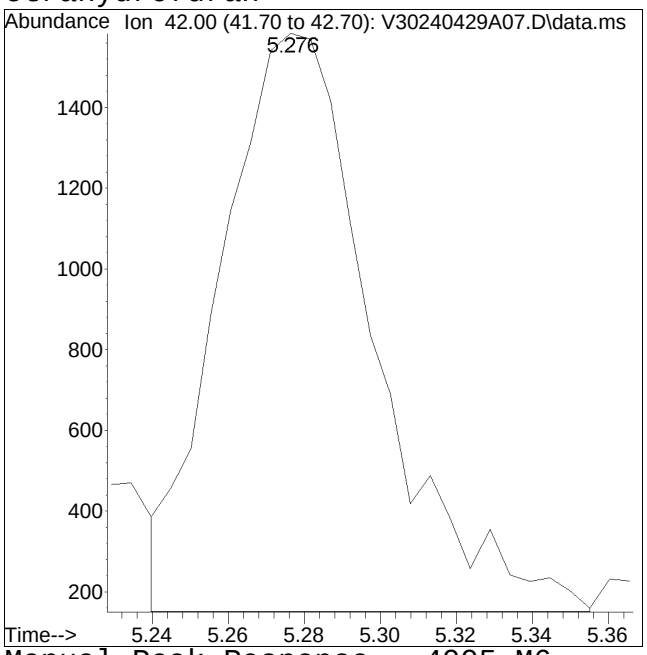
Manual Integration Report

Data Path : K:\VOA130\2024\240429ICAL\QMethod : V130_240429A_8260D.m
Data File : V30240429A07.D Operator : VOA130:PID
Date Inj'd : 4/29/2024 6:51 pm Instrument : VOA130
Sample : I8260STD2PPB Quant Date : 5/1/2024 12:00 pm

Compound #38: Tetrahydrofuran



Original Peak Response = 4372



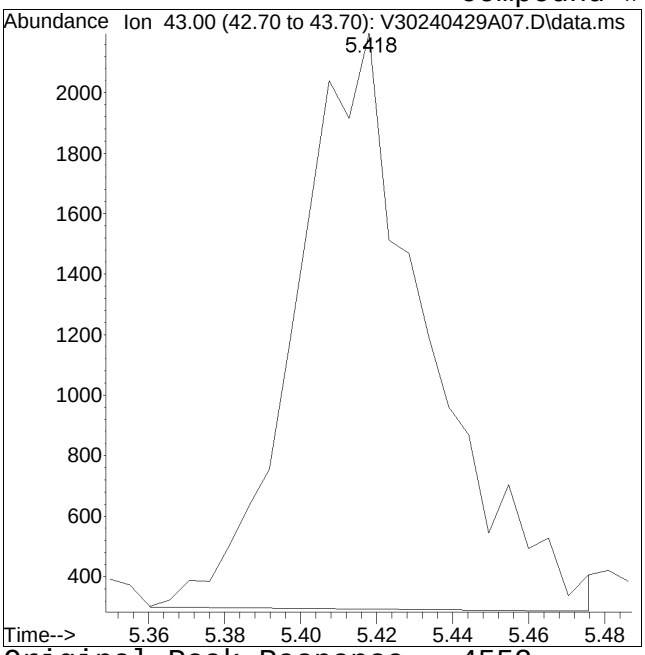
Manual Peak Response = 4005 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

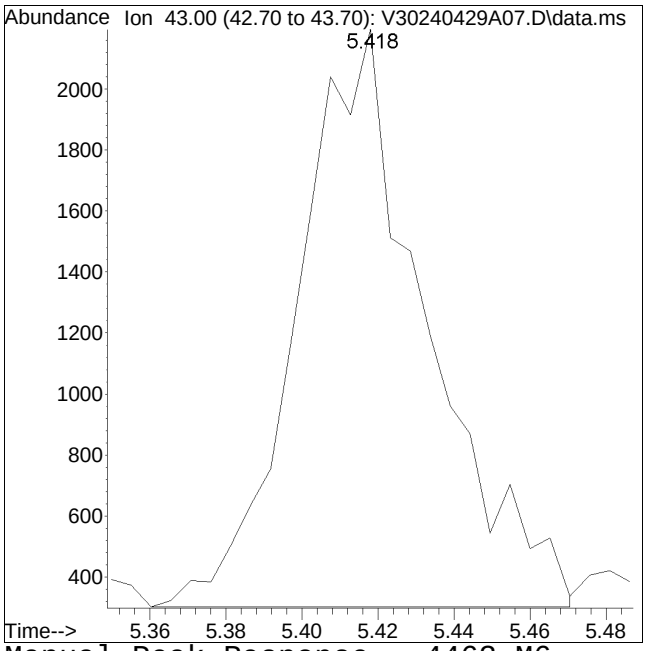
Manual Integration Report

Data Path : K:\VOA130\2024\240429ICAL\QMethod : V130_240429A_8260D.m
Data File : V30240429A07.D Operator : VOA130:PID
Date Inj'd : 4/29/2024 6:51 pm Instrument : VOA130
Sample : I8260STD2PPB Quant Date : 5/1/2024 12:00 pm

Compound #42: 2-Butanone



Original Peak Response = 4552



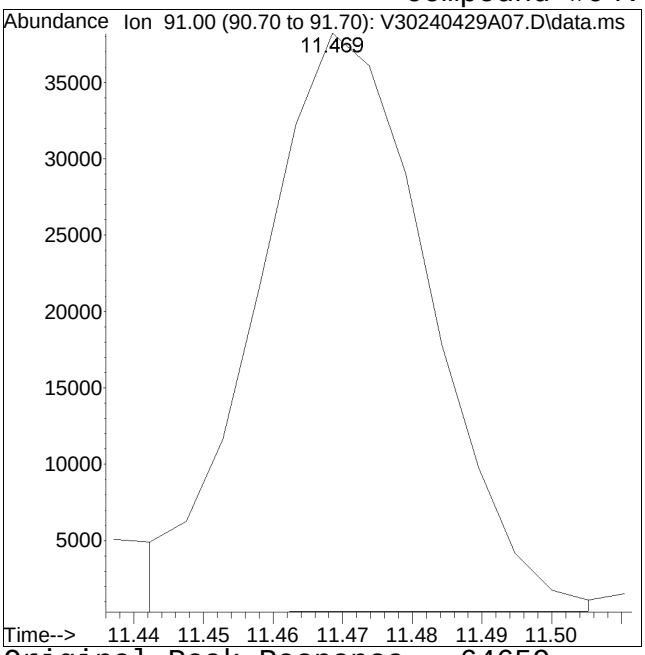
Manual Peak Response = 4463 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

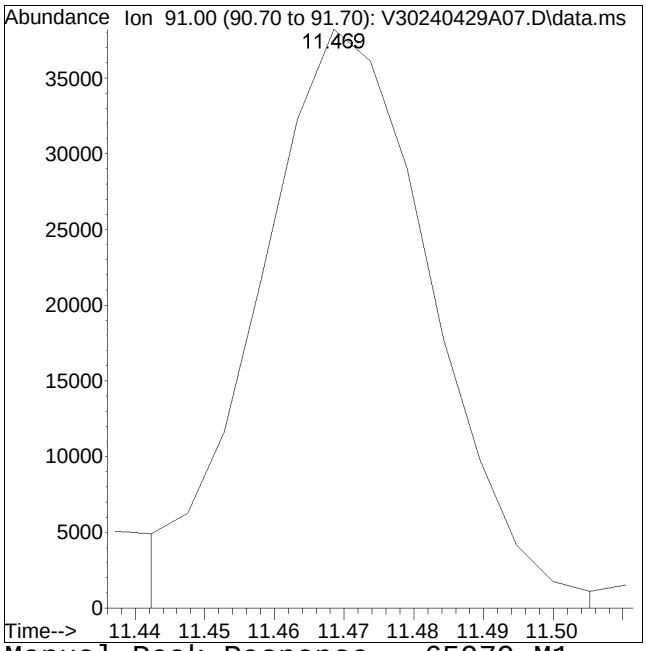
Manual Integration Report

Data Path : K:\VOA130\2024\240429ICAL\QMethod : V130_240429A_8260D.m
Data File : V30240429A07.D Operator : VOA130:PID
Date Inj'd : 4/29/2024 6:51 pm Instrument : VOA130
Sample : I8260STD2PPB Quant Date : 5/1/2024 12:00 pm

Compound #94: 2-Chlorotoluene



Original Peak Response = 64659



Manual Peak Response = 65979 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A08.D
Acq On : 29 Apr 2024 07:13 pm
Operator : VOA130:PID
Sample : I8260STD10PPB
Misc : WG1915725,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 01 12:00:52 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 11:59:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240429ICAL\V30240429A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.115	96	569909	10.000	ug/L	0.00
Standard Area 1 = 569909			Recovery = 100.00%			
63) Chlorobenzene-d5	9.665	117	448426	10.000	ug/L	0.00
Standard Area 1 = 448426			Recovery = 100.00%			
84) 1,4-Dichlorobenzene-d4	12.349	152	248100	10.000	ug/L	0.00
Standard Area 1 = 248100			Recovery = 100.00%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.297	113	167380	10.246	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.46%			
47) 1,2-Dichloroethane-d4	5.827	65	187052	10.698	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.98%			
64) Toluene-d8	7.814	98	586721	9.979	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.79%			
88) 4-Bromofluorobenzene	11.149	95	226324	10.051	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.51%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.680	85	105428	9.924	ug/L	96
3) Chloromethane	1.874	50	103932	9.628	ug/L	97
4) Vinyl chloride	1.947	62	114349	10.055	ug/L	98
5) Bromomethane	2.267	94	63832	9.934	ug/L	98
6) Chloroethane	2.377	64	67053	10.090	ug/L	99
7) Trichlorofluoromethane	2.529	101	132103	9.929	ug/L	98
8) Ethyl ether	2.838	74	48474	10.005	ug/L	83
10) 1,1-Dichloroethene	3.027	96	91041	9.698	ug/L #	74
11) Carbon disulfide	3.058	76	248016	9.704	ug/L	99
12) Freon-113	3.069	101	91497	9.867	ug/L	84
13) Iodomethane	3.163	142	127128	9.794	ug/L	99
14) Acrolein	3.342	56	11002	9.333	ug/L	92
15) Methylene chloride	3.588	84	106381	9.836	ug/L	78
17) Acetone	3.625	43	22804	8.448	ug/L	90
18) trans-1,2-Dichloroethene	3.745	96	99499	9.878	ug/L	82
19) Methyl acetate	3.751	43	49093	9.170	ug/L #	84
21) Methyl tert-butyl ether	3.845	73	217199	9.653	ug/L	90
22) tert-Butyl alcohol	3.934	59	34380	51.344	ug/L	94
24) Diisopropyl ether	4.212	45	249244	9.323	ug/L #	94
25) 1,1-Dichloroethane	4.333	63	192608	10.166	ug/L #	97
26) Halothane	4.385	117	77076	10.005	ug/L	98

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A08.D
Acq On : 29 Apr 2024 07:13 pm
Operator : VOA130:PID
Sample : I8260STD10PPB
Misc : WG1915725,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 01 12:00:52 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 11:59:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240429ICAL\V30240429A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.369	53	25619	9.984	ug/L		92
28) Ethyl tert-butyl ether	4.563	59	237135	9.238	ug/L		81
29) Vinyl acetate	4.569	43	136406	9.435	ug/L	#	92
30) cis-1,2-Dichloroethene	4.852	96	118762	10.176	ug/L	#	78
31) 2,2-Dichloropropane	4.962	77	154344	10.139	ug/L		81
33) Bromochloromethane	5.046	128	54990	10.329	ug/L	#	58
34) Cyclohexane	5.061	56	156818	9.562	ug/L		82
35) Chloroform	5.119	83	183627	10.034	ug/L		94
36) Ethyl acetate	5.229	43	59687	9.684	ug/L	#	95
37) Carbon tetrachloride	5.266	117	121126	9.819	ug/L		98
38) Tetrahydrofuran	5.276	42	19919M6	10.281	ug/L		
40) 1,1,1-Trichloroethane	5.329	97	150965	9.934	ug/L		93
42) 2-Butanone	5.413	43	26626	9.278	ug/L		92
43) 1,1-Dichloropropene	5.449	75	120649	9.504	ug/L		94
45) Benzene	5.696	78	358515	9.754	ug/L		95
46) tert-Amyl methyl ether	5.811	73	210691	9.269	ug/L		93
48) 1,2-Dichloroethane	5.895	62	129045	10.095	ug/L	#	96
51) Methyl cyclohexane	6.293	83	136199	9.035	ug/L		84
52) Trichloroethene	6.293	95	94754	9.353	ug/L		92
54) Dibromomethane	6.734	93	59395	10.092	ug/L	#	88
55) 1,2-Dichloropropane	6.839	63	94568	9.728	ug/L		96
57) 2-Chloroethyl vinyl ether	7.536	63	48652	9.855	ug/L	#	81
58) Bromodichloromethane	6.912	83	131133	9.772	ug/L	#	98
61) 1,4-Dioxane	7.117	88	41892	510.226	ug/L	#	88
62) cis-1,3-Dichloropropene	7.604	75	143730	9.547	ug/L	#	84
65) Toluene	7.877	92	236580	9.658	ug/L		97
66) 4-Methyl-2-pentanone	8.302	58	23634	9.757	ug/L	#	74
67) Tetrachloroethene	8.328	166	92931	9.251	ug/L	#	91
69) trans-1,3-Dichloropropene	8.354	75	121870	9.165	ug/L	#	83
71) Ethyl methacrylate	8.548	69	96872	9.827	ug/L	#	87
72) 1,1,2-Trichloroethane	8.538	83	61041	9.231	ug/L		96
73) Chlorodibromomethane	8.752	129	79488	8.841	ug/L		98
74) 1,3-Dichloropropane	8.863	76	126814	9.417	ug/L		100
75) 1,2-Dibromoethane	9.030	107	72223	9.382	ug/L		100
77) 2-Hexanone	9.314	43	42059	10.134	ug/L	#	89
78) Chlorobenzene	9.686	112	257908	9.693	ug/L		93
79) Ethylbenzene	9.728	91	450861	9.850	ug/L		96
80) 1,1,1,2-Tetrachloroethane	9.770	131	78370	8.874	ug/L		99
81) p/m Xylene	9.916	106	362692	19.701	ug/L		92
82) o Xylene	10.451	106	357088	19.928	ug/L		93

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A08.D
Acq On : 29 Apr 2024 07:13 pm
Operator : VOA130:PID
Sample : I8260STD10PPB
Misc : WG1915725,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 01 12:00:52 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 11:59:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240429ICAL\V30240429A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
83) Styrene	10.514	104	594105	20.182	ug/L		93
85) Bromoform	10.535	173	46215	8.789	ug/L		98
87) Isopropylbenzene	10.829	105	436060	9.876	ug/L		97
89) Bromobenzene	11.259	156	111963	9.731	ug/L		100
90) n-Propylbenzene	11.306	91	518339	9.842	ug/L		95
91) 1,4-Dichlorobutane	11.316	55	113505	9.737	ug/L		99
92) 1,1,2,2-Tetrachloroethane	11.385	83	86637	9.555	ug/L	#	99
93) 4-Ethyltoluene	11.432	105	445842	9.918	ug/L		97
94) 2-Chlorotoluene	11.468	91	321499M1	9.845	ug/L		
95) 1,3,5-Trimethylbenzene	11.526	105	383970	9.793	ug/L		96
96) 1,2,3-Trichloropropane	11.521	75	70300	9.700	ug/L		87
97) trans-1,4-Dichloro-2-b...	11.573	53	24317	9.374	ug/L	#	90
98) 4-Chlorotoluene	11.652	91	337312	9.888	ug/L		92
99) tert-Butylbenzene	11.867	119	312874	9.730	ug/L		93
102) 1,2,4-Trimethylbenzene	11.946	105	366645	9.647	ug/L		96
103) sec-Butylbenzene	12.056	105	451208	9.789	ug/L		93
104) p-Isopropyltoluene	12.208	119	397289	9.846	ug/L		96
105) 1,3-Dichlorobenzene	12.276	146	215456	9.802	ug/L		97
106) 1,4-Dichlorobenzene	12.365	146	219298	9.786	ug/L		98
107) p-Diethylbenzene	12.580	119	226889	9.415	ug/L		96
108) n-Butylbenzene	12.638	91	317532	9.477	ug/L		97
109) 1,2-Dichlorobenzene	12.784	146	209695	9.880	ug/L		97
110) 1,2,4,5-Tetramethylben...	13.372	119	319899	9.048	ug/L		95
111) 1,2-Dibromo-3-chloropr...	13.560	155	14990	9.546	ug/L		99
112) 1,3,5-Trichlorobenzene	13.597	180	143284	9.164	ug/L		96
113) Hexachlorobutadiene	14.174	225	46968	9.091	ug/L		99
114) 1,2,4-Trichlorobenzene	14.195	180	133384	9.334	ug/L		98
115) Naphthalene	14.488	128	326977	9.915	ug/L		100
116) 1,2,3-Trichlorobenzene	14.656	180	131517	9.657	ug/L		98

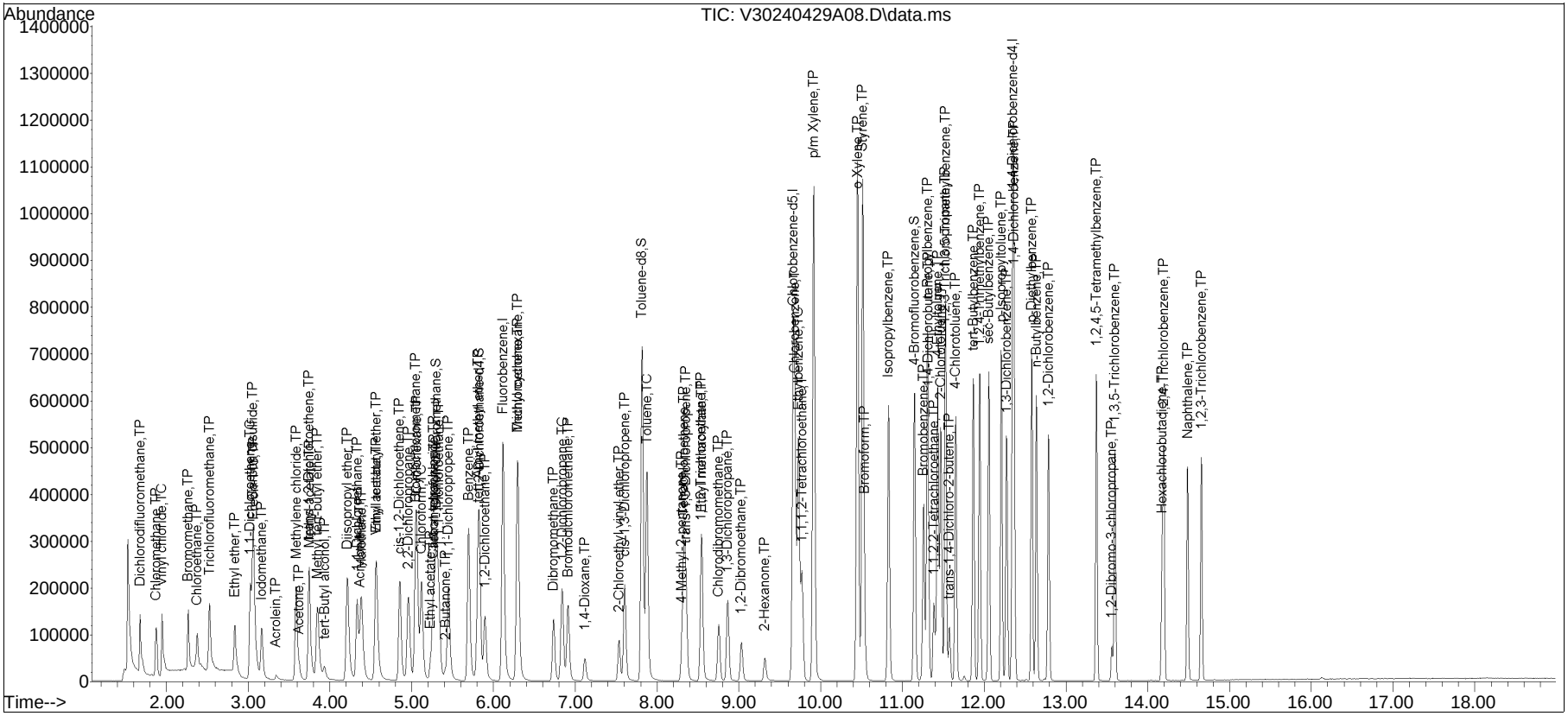
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A08.D
Acq On : 29 Apr 2024 07:13 pm
Operator : VOA130:PID
Sample : I8260STD10PPB
Misc : WG1915725,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 01 12:00:52 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 11:59:57 2024
Response via : Initial Calibration

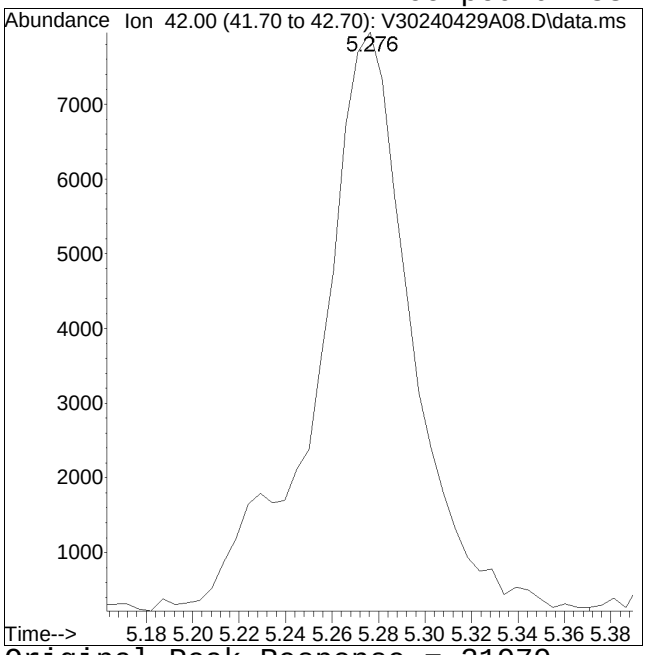
Sub List : 8260-Curve - Megamix plus DioxV30240429A08.D•



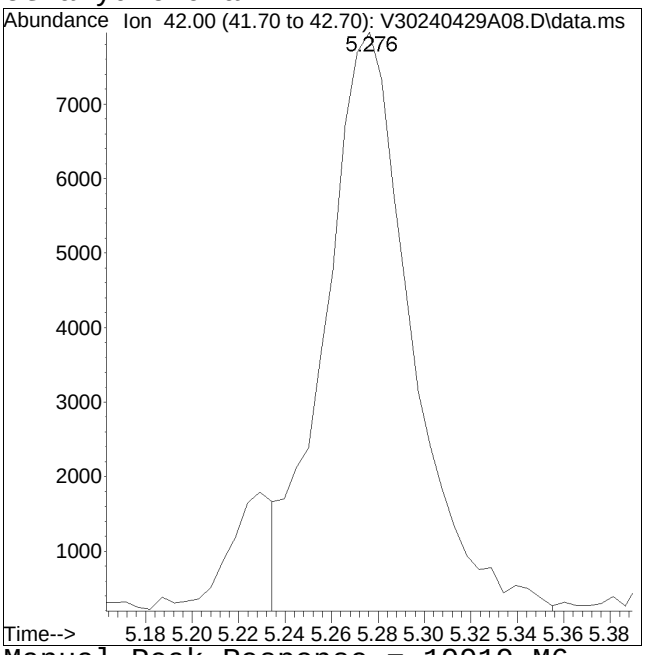
Manual Integration Report

Data Path : K:\VOA130\2024\240429ICAL\QMethod : V130_240429A_8260D.m
Data File : V30240429A08.D Operator : VOA130:PID
Date Inj'd : 4/29/2024 7:13 pm Instrument : VOA130
Sample : I8260STD10PPB Quant Date : 5/1/2024 12:00 pm

Compound #38: Tetrahydrofuran



Original Peak Response = 21979



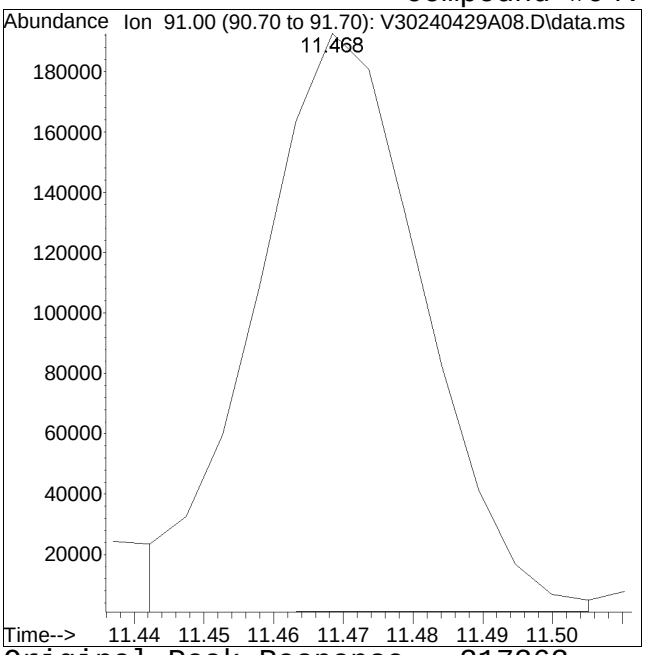
Manual Peak Response = 19919 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

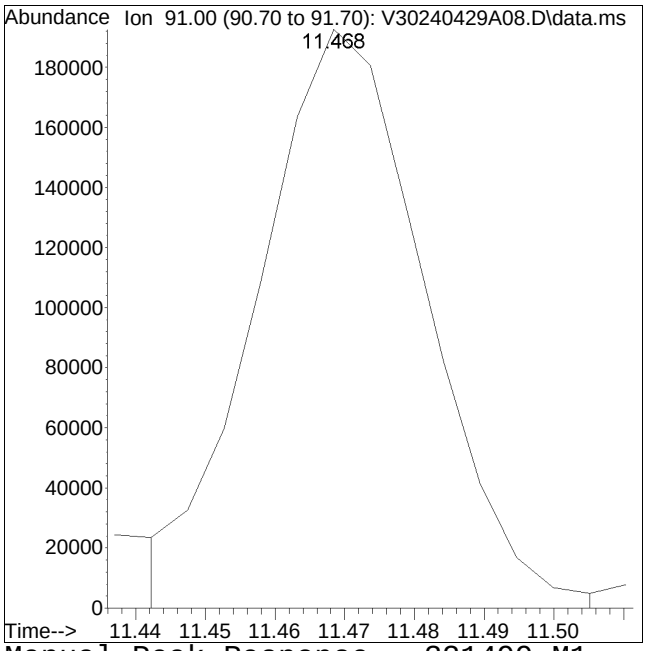
Manual Integration Report

Data Path : K:\VOA130\2024\240429ICAL\QMethod : V130_240429A_8260D.m
Data File : V30240429A08.D Operator : VOA130:PID
Date Inj'd : 4/29/2024 7:13 pm Instrument : VOA130
Sample : I8260STD10PPB Quant Date : 5/1/2024 12:00 pm

Compound #94: 2-Chlorotoluene



Original Peak Response = 317363



Manual Peak Response = 321499 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A09.D
Acq On : 29 Apr 2024 07:35 pm
Operator : VOA130:PID
Sample : I8260STD30PPB
Misc : WG1915725,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 01 12:01:01 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 11:59:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240429ICAL\V30240429A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.115	96	608782	10.000 ug/L	0.00
Standard Area 1 = 569909			Recovery = 106.82%		
63) Chlorobenzene-d5	9.665	117	447707	10.000 ug/L	0.00
Standard Area 1 = 448426			Recovery = 99.84%		
84) 1,4-Dichlorobenzene-d4	12.349	152	248957	10.000 ug/L	0.00
Standard Area 1 = 248100			Recovery = 100.35%		
System Monitoring Compounds					
39) Dibromofluoromethane	5.297	113	166766	9.557 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.57%		
47) 1,2-Dichloroethane-d4	5.827	65	178338	9.548 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.48%		
64) Toluene-d8	7.814	98	587404	10.006 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.06%		
88) 4-Bromofluorobenzene	11.149	95	223992	9.913 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.13%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.680	85	363821	32.060 ug/L	96
3) Chloromethane	1.879	50	350391	30.385 ug/L	98
4) Vinyl chloride	1.947	62	385958	31.772 ug/L	99
5) Bromomethane	2.267	94	212420	30.949 ug/L	98
6) Chloroethane	2.377	64	215920M1	30.417 ug/L	
7) Trichlorofluoromethane	2.529	101	459005	32.296 ug/L	99
8) Ethyl ether	2.838	74	162498	31.398 ug/L	83
10) 1,1-Dichloroethene	3.027	96	313820	31.295 ug/L #	74
11) Carbon disulfide	3.059	76	834632	30.570 ug/L	99
12) Freon-113	3.069	101	326869	32.998 ug/L	85
13) Iodomethane	3.163	142	448369	32.338 ug/L	100
14) Acrolein	3.347	56	32417	25.743 ug/L	95
15) Methylene chloride	3.588	84	343165	29.704 ug/L	78
17) Acetone	3.625	43	66938	23.215 ug/L #	87
18) trans-1,2-Dichloroethene	3.745	96	332858	30.937 ug/L	81
19) Methyl acetate	3.751	43	152789	26.718 ug/L #	84
21) Methyl tert-butyl ether	3.845	73	795273	33.088 ug/L	88
22) tert-Butyl alcohol	3.934	59	111787	156.286 ug/L #	81
24) Diisopropyl ether	4.212	45	914770	32.032 ug/L #	94
25) 1,1-Dichloroethane	4.333	63	627026	30.981 ug/L #	97
26) Halothane	4.385	117	266849	32.427 ug/L	98

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A09.D
Acq On : 29 Apr 2024 07:35 pm
Operator : VOA130:PID
Sample : I8260STD30PPB
Misc : WG1915725,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 01 12:01:01 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 11:59:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240429ICAL\V30240429A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.369	53	79050	28.840	ug/L		94
28) Ethyl tert-butyl ether	4.563	59	894698	32.629	ug/L		80
29) Vinyl acetate	4.569	43	512574	33.189	ug/L	#	92
30) cis-1,2-Dichloroethene	4.852	96	379580	30.447	ug/L	#	81
31) 2,2-Dichloropropane	4.957	77	509103	31.308	ug/L		82
33) Bromochloromethane	5.046	128	178115	31.319	ug/L	#	57
34) Cyclohexane	5.061	56	579233	33.065	ug/L		82
35) Chloroform	5.119	83	602322	30.813	ug/L		93
36) Ethyl acetate	5.229	43	213848	32.480	ug/L	#	96
37) Carbon tetrachloride	5.261	117	443028	33.622	ug/L		99
38) Tetrahydrofuran	5.271	42	65391M6	31.595	ug/L		
40) 1,1,1-Trichloroethane	5.329	97	523490	32.246	ug/L		93
42) 2-Butanone	5.408	43	95466	31.141	ug/L		99
43) 1,1-Dichloropropene	5.449	75	463605	34.188	ug/L		94
45) Benzene	5.696	78	1279960	32.599	ug/L		95
46) tert-Amyl methyl ether	5.811	73	769744	31.700	ug/L		93
48) 1,2-Dichloroethane	5.895	62	422431	30.935	ug/L	#	97
51) Methyl cyclohexane	6.294	83	531832	33.026	ug/L		82
52) Trichloroethene	6.294	95	356859	32.977	ug/L		92
54) Dibromomethane	6.734	93	192996	30.700	ug/L	#	87
55) 1,2-Dichloropropane	6.839	63	341631	32.899	ug/L		96
57) 2-Chloroethyl vinyl ether	7.531	63	173144	32.832	ug/L	#	80
58) Bromodichloromethane	6.912	83	458409	31.979	ug/L	#	98
61) 1,4-Dioxane	7.117	88	53717	612.473	ug/L	#	88
62) cis-1,3-Dichloropropene	7.604	75	531601	33.055	ug/L	#	83
65) Toluene	7.872	92	791009	32.344	ug/L		98
66) 4-Methyl-2-pentanone	8.307	58	78018	32.260	ug/L	#	74
67) Tetrachloroethene	8.328	166	328670	32.770	ug/L	#	92
69) trans-1,3-Dichloropropene	8.354	75	450123	33.903	ug/L	#	77
71) Ethyl methacrylate	8.548	69	318247	32.337	ug/L	#	82
72) 1,1,2-Trichloroethane	8.538	83	218089	33.033	ug/L		95
73) Chlorodibromomethane	8.753	129	298186	33.217	ug/L		98
74) 1,3-Dichloropropane	8.863	76	447323	33.269	ug/L		100
75) 1,2-Dibromoethane	9.031	107	256094	33.320	ug/L		99
77) 2-Hexanone	9.314	43	135443	32.688	ug/L		89
78) Chlorobenzene	9.686	112	860794	32.404	ug/L		94
79) Ethylbenzene	9.728	91	1517196	33.200	ug/L		96
80) 1,1,1,2-Tetrachloroethane	9.770	131	289645	32.849	ug/L		99
81) p/m Xylene	9.917	106	1208294	65.739	ug/L		90
82) o Xylene	10.451	106	1173746	65.610	ug/L		92

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A09.D
Acq On : 29 Apr 2024 07:35 pm
Operator : VOA130:PID
Sample : I8260STD30PPB
Misc : WG1915725,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 01 12:01:01 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 11:59:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240429ICAL\V30240429A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
83) Styrene	10.514	104	1952009	66.417	ug/L		93
85) Bromoform	10.535	173	168286	31.892	ug/L		98
87) Isopropylbenzene	10.829	105	1484906	33.514	ug/L		97
89) Bromobenzene	11.259	156	367488	31.830	ug/L		100
90) n-Propylbenzene	11.306	91	1776871	33.624	ug/L		94
91) 1,4-Dichlorobutane	11.317	55	372713	31.863	ug/L		100
92) 1,1,2,2-Tetrachloroethane	11.385	83	285144	31.341	ug/L		99
93) 4-Ethyltoluene	11.432	105	1509627	33.466	ug/L		97
94) 2-Chlorotoluene	11.469	91	1061354M1	32.390	ug/L		
95) 1,3,5-Trimethylbenzene	11.526	105	1325361	33.688	ug/L		96
96) 1,2,3-Trichloropropane	11.521	75	226720	31.174	ug/L		87
97) trans-1,4-Dichloro-2-b...	11.573	53	78730	30.244	ug/L	#	85
98) 4-Chlorotoluene	11.652	91	1113418	32.528	ug/L		93
99) tert-Butylbenzene	11.867	119	1077628	33.399	ug/L		93
102) 1,2,4-Trimethylbenzene	11.946	105	1287596	33.764	ug/L		96
103) sec-Butylbenzene	12.056	105	1566207	33.863	ug/L		94
104) p-Isopropyltoluene	12.208	119	1373636	33.925	ug/L		96
105) 1,3-Dichlorobenzene	12.276	146	715873	32.455	ug/L		97
106) 1,4-Dichlorobenzene	12.365	146	726310	32.301	ug/L		98
107) p-Diethylbenzene	12.580	119	819253	33.878	ug/L		95
108) n-Butylbenzene	12.638	91	1160275	34.511	ug/L		97
109) 1,2-Dichlorobenzene	12.785	146	691017	32.447	ug/L		97
110) 1,2,4,5-Tetramethylben...	13.372	119	1158431	32.651	ug/L		95
111) 1,2-Dibromo-3-chloropr...	13.561	155	49540	31.439	ug/L		96
112) 1,3,5-Trichlorobenzene	13.597	180	506638	32.292	ug/L		95
113) Hexachlorobutadiene	14.174	225	170546	32.896	ug/L		99
114) 1,2,4-Trichlorobenzene	14.195	180	463808	32.345	ug/L		99
115) Naphthalene	14.483	128	1058352	31.983	ug/L		100
116) 1,2,3-Trichlorobenzene	14.656	180	438756	32.105	ug/L		98

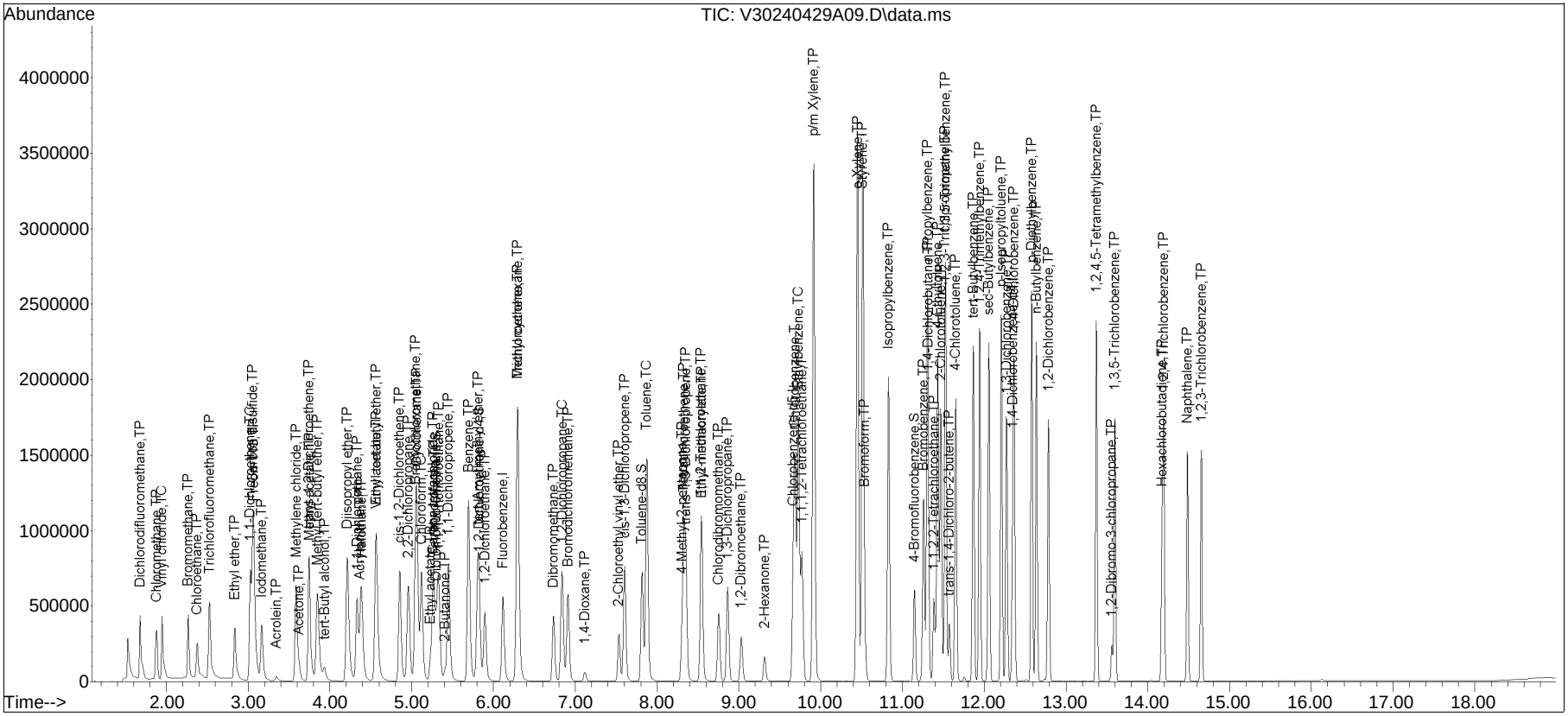
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A09.D
Acq On : 29 Apr 2024 07:35 pm
Operator : VOA130:PID
Sample : I8260STD30PPB
Misc : WG1915725,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 01 12:01:01 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 11:59:57 2024
Response via : Initial Calibration

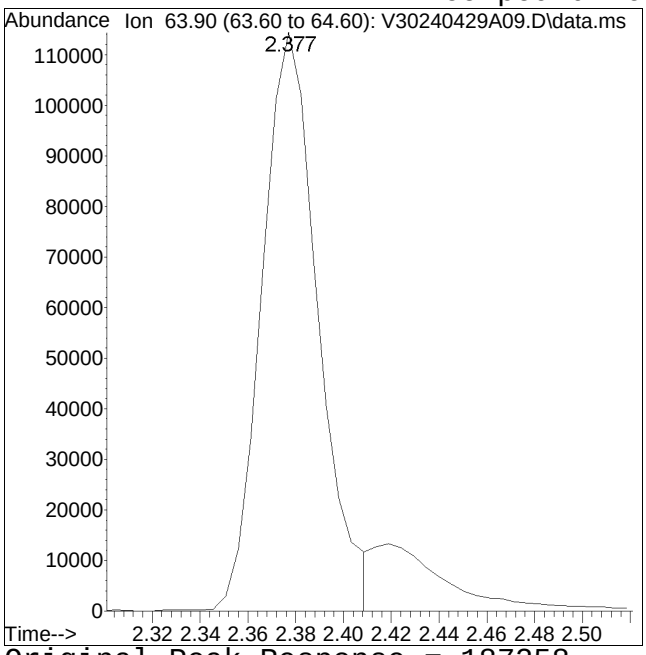
Sub List : 8260-Curve - Megamix plus DioxV30240429A08.D•

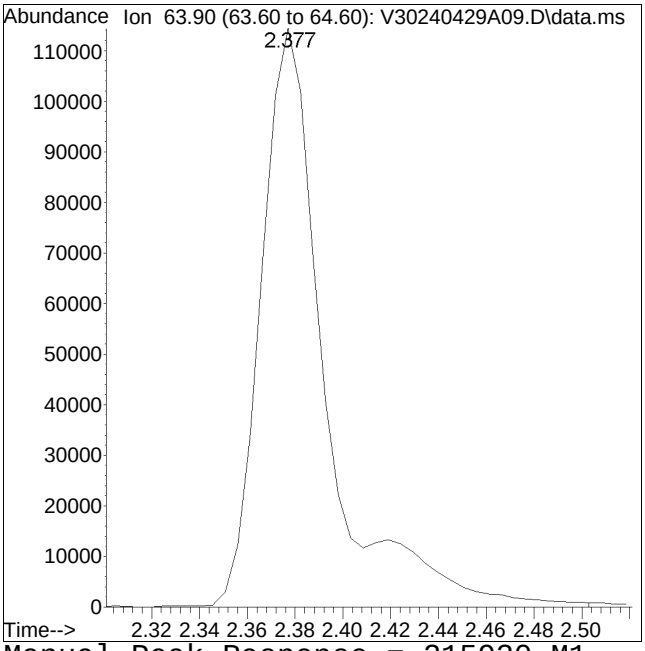


Manual Integration Report

Data Path : K:\VOA130\2024\240429ICAL\QMethod : V130_240429A_8260D.m
Data File : V30240429A09.D Operator : VOA130:PID
Date Inj'd : 4/29/2024 7:35 pm Instrument : VOA130
Sample : I8260STD30PPB Quant Date : 5/1/2024 12:00 pm

Compound #6: Chloroethane



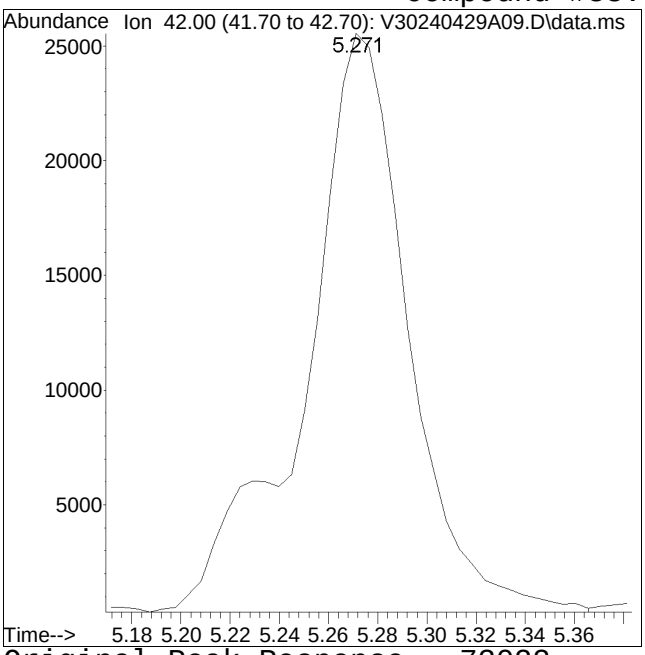


Original Peak Response = 187258 Manual Peak Response = 215920 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

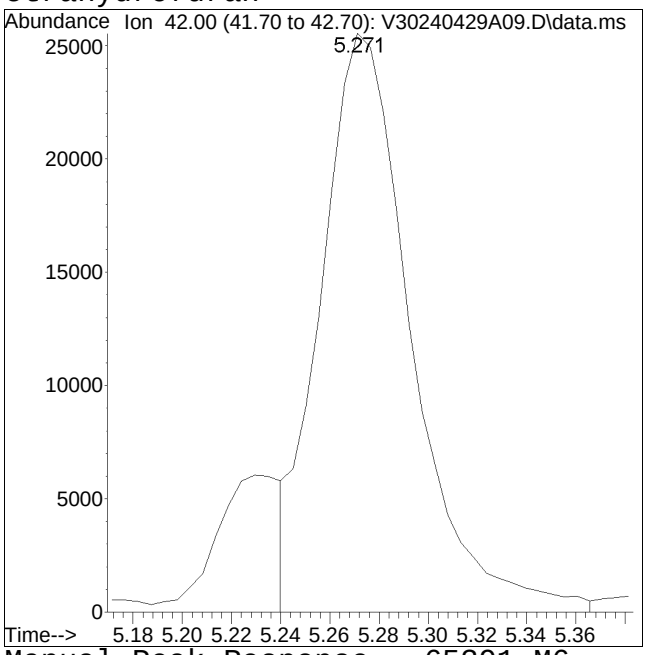
Manual Integration Report

Data Path : K:\VOA130\2024\240429ICAL\QMethod : V130_240429A_8260D.m
Data File : V30240429A09.D Operator : VOA130:PID
Date Inj'd : 4/29/2024 7:35 pm Instrument : VOA130
Sample : I8260STD30PPB Quant Date : 5/1/2024 12:00 pm

Compound #38: Tetrahydrofuran



Original Peak Response = 73022



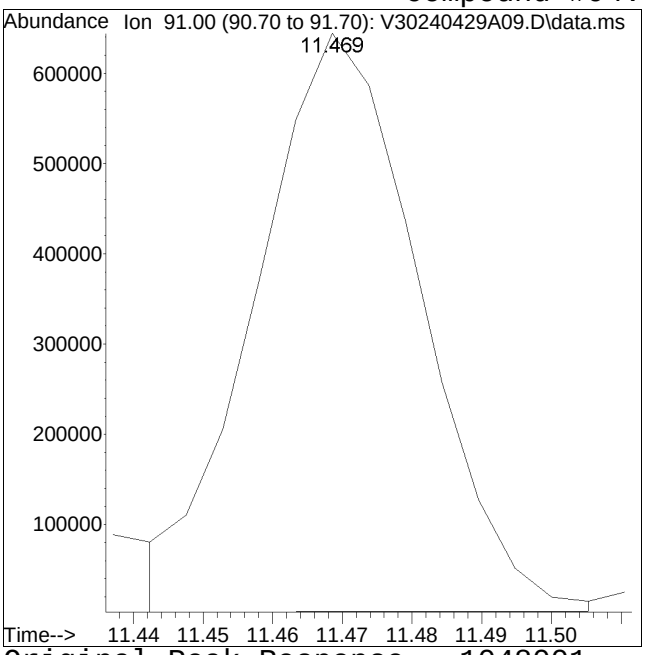
Manual Peak Response = 65391 M6

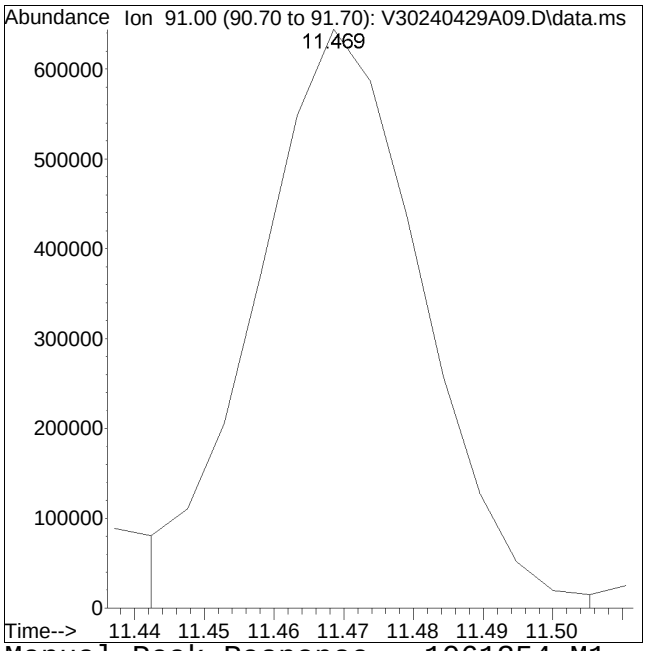
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\VOA130\2024\240429ICAL\QMethod : V130_240429A_8260D.m
Data File : V30240429A09.D Operator : VOA130:PID
Date Inj'd : 4/29/2024 7:35 pm Instrument : VOA130
Sample : I8260STD30PPB Quant Date : 5/1/2024 12:00 pm

Compound #94: 2-Chlorotoluene





Original Peak Response = 1048001 Manual Peak Response = 1061354 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A10.D
Acq On : 29 Apr 2024 07:57 pm
Operator : VOA130:PID
Sample : I8260STD80PPB
Misc : WG1915725,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 01 12:01:10 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 11:59:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240429ICAL\V30240429A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.115	96	614148	10.000	ug/L	0.00
Standard Area 1 = 569909			Recovery = 107.76%			
63) Chlorobenzene-d5	9.665	117	442617	10.000	ug/L	0.00
Standard Area 1 = 448426			Recovery = 98.70%			
84) 1,4-Dichlorobenzene-d4	12.349	152	245734	10.000	ug/L	0.00
Standard Area 1 = 248100			Recovery = 99.05%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.297	113	162439	9.227	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.27%			
47) 1,2-Dichloroethane-d4	5.827	65	181407	9.627	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.27%			
64) Toluene-d8	7.814	98	578901	9.975	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.75%			
88) 4-Bromofluorobenzene	11.149	95	219824	9.856	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.56%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.680	85	882318	77.070	ug/L	96
3) Chloromethane	1.879	50	888115	76.343	ug/L	97
4) Vinyl chloride	1.947	62	943377	76.979	ug/L	100
5) Bromomethane	2.267	94	544598	78.653	ug/L	98
6) Chloroethane	2.372	64	510888M1	71.341	ug/L	
7) Trichlorofluoromethane	2.524	101	1118178	77.989	ug/L	99
8) Ethyl ether	2.838	74	416257	79.727	ug/L #	82
10) 1,1-Dichloroethene	3.027	96	772813	76.393	ug/L #	73
11) Carbon disulfide	3.058	76	2090269	75.891	ug/L	99
12) Freon-113	3.069	101	801071	80.163	ug/L	85
13) Iodomethane	3.163	142	1169580	83.619	ug/L	100
14) Acrolein	3.347	56	85116	67.001	ug/L	97
15) Methylene chloride	3.588	84	851537	73.065	ug/L	78
17) Acetone	3.625	43	176929	60.826	ug/L #	87
18) trans-1,2-Dichloroethene	3.745	96	825853	76.086	ug/L	81
19) Methyl acetate	3.751	43	404160	70.057	ug/L #	85
21) Methyl tert-butyl ether	3.850	73	2112847	87.140	ug/L	90
22) tert-Butyl alcohol	3.934	59	308375	427.364	ug/L	90
24) Diisopropyl ether	4.212	45	2384556	82.768	ug/L #	94
25) 1,1-Dichloroethane	4.333	63	1537921	75.323	ug/L #	97
26) Halothane	4.385	117	657290	79.175	ug/L	97

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A10.D
Acq On : 29 Apr 2024 07:57 pm
Operator : VOA130:PID
Sample : I8260STD80PPB
Misc : WG1915725,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 01 12:01:10 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 11:59:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240429ICAL\V30240429A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.369	53	208736	75.489	ug/L		95
28) Ethyl tert-butyl ether	4.563	59	2399993	86.761	ug/L		81
29) Vinyl acetate	4.568	43	1391174	89.290	ug/L	#	91
30) cis-1,2-Dichloroethene	4.852	96	937017	74.504	ug/L	#	81
31) 2,2-Dichloropropane	4.956	77	1235173	75.296	ug/L		82
33) Bromochloromethane	5.046	128	446302	77.790	ug/L	#	57
34) Cyclohexane	5.061	56	1431797	81.018	ug/L		82
35) Chloroform	5.119	83	1469821	74.534	ug/L		94
36) Ethyl acetate	5.229	43	592687	89.233	ug/L	#	96
37) Carbon tetrachloride	5.266	117	1115413	83.911	ug/L		97
38) Tetrahydrofuran	5.271	42	168123M1	80.523	ug/L		
40) 1,1,1-Trichloroethane	5.329	97	1292640	78.930	ug/L		92
42) 2-Butanone	5.407	43	269637	87.187	ug/L		99
43) 1,1-Dichloropropene	5.449	75	1166971	85.306	ug/L		93
45) Benzene	5.696	78	3253919	82.148	ug/L		95
46) tert-Amyl methyl ether	5.811	73	2064732	84.288	ug/L		93
48) 1,2-Dichloroethane	5.895	62	1072374	77.846	ug/L	#	97
51) Methyl cyclohexane	6.293	83	1388982	85.500	ug/L		82
52) Trichloroethene	6.299	95	914945	83.810	ug/L		92
54) Dibromomethane	6.734	93	498018	78.528	ug/L	#	87
55) 1,2-Dichloropropane	6.839	63	875057	83.532	ug/L		96
57) 2-Chloroethyl vinyl ether	7.531	63	452146	84.989	ug/L	#	81
58) Bromodichloromethane	6.912	83	1174012	81.184	ug/L	#	98
61) 1,4-Dioxane	7.117	88	72423	818.541	ug/L	#	88
62) cis-1,3-Dichloropropene	7.604	75	1395143	85.992	ug/L	#	83
65) Toluene	7.877	92	1948771	80.600	ug/L		97
66) 4-Methyl-2-pentanone	8.302	58	207074	86.610	ug/L	#	74
67) Tetrachloroethene	8.328	166	832799	83.990	ug/L	#	92
69) trans-1,3-Dichloropropene	8.354	75	1203425	91.684	ug/L	#	76
71) Ethyl methacrylate	8.548	69	806477	82.888	ug/L	#	78
72) 1,1,2-Trichloroethane	8.537	83	586319	89.828	ug/L		96
73) Chlorodibromomethane	8.752	129	814915	91.823	ug/L		98
74) 1,3-Dichloropropane	8.863	76	1185841	89.210	ug/L		100
75) 1,2-Dibromoethane	9.030	107	683164	89.908	ug/L		99
77) 2-Hexanone	9.313	43	357050	87.162	ug/L		89
78) Chlorobenzene	9.686	112	2136133	81.339	ug/L		95
79) Ethylbenzene	9.728	91	3670964	81.252	ug/L		95
80) 1,1,1,2-Tetrachloroethane	9.770	131	768322	88.139	ug/L		99
81) p/m Xylene	9.916	106	2921046	160.750	ug/L		89
82) o Xylene	10.451	106	2833182	160.189	ug/L		90

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A10.D
Acq On : 29 Apr 2024 07:57 pm
Operator : VOA130:PID
Sample : I8260STD80PPB
Misc : WG1915725,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 01 12:01:10 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 11:59:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240429ICAL\V30240429A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
83) Styrene	10.514	104	4669128	160.693	ug/L		94
85) Bromoform	10.535	173	468642	89.979	ug/L		98
87) Isopropylbenzene	10.829	105	3596749	82.242	ug/L		96
89) Bromobenzene	11.259	156	916304	80.406	ug/L		99
90) n-Propylbenzene	11.306	91	4290127	82.248	ug/L		93
91) 1,4-Dichlorobutane	11.316	55	944839	81.833	ug/L		100
92) 1,1,2,2-Tetrachloroethane	11.384	83	746634	83.141	ug/L		99
93) 4-Ethyltoluene	11.432	105	3668852	82.399	ug/L		96
94) 2-Chlorotoluene	11.468	91	2581753M1	79.822	ug/L		
95) 1,3,5-Trimethylbenzene	11.526	105	3249793	83.686	ug/L		95
96) 1,2,3-Trichloropropane	11.521	75	590696	82.286	ug/L		87
97) trans-1,4-Dichloro-2-b...	11.573	53	208301	81.069	ug/L	#	81
98) 4-Chlorotoluene	11.652	91	2726401	80.695	ug/L		92
99) tert-Butylbenzene	11.867	119	2653761	83.328	ug/L		93
102) 1,2,4-Trimethylbenzene	11.945	105	3200241	85.018	ug/L		95
103) sec-Butylbenzene	12.056	105	3872798	84.832	ug/L		92
104) p-Isopropyltoluene	12.208	119	3428226	85.778	ug/L		96
105) 1,3-Dichlorobenzene	12.276	146	1773402	81.455	ug/L		97
106) 1,4-Dichlorobenzene	12.365	146	1801734	81.179	ug/L		98
107) p-Diethylbenzene	12.580	119	2095490	87.790	ug/L		95
108) n-Butylbenzene	12.638	91	2943372	88.696	ug/L	#	96
109) 1,2-Dichlorobenzene	12.784	146	1714798	81.576	ug/L		98
110) 1,2,4,5-Tetramethylben...	13.372	119	3103035	88.608	ug/L		94
111) 1,2-Dibromo-3-chloropr...	13.560	155	134676	86.589	ug/L		98
112) 1,3,5-Trichlorobenzene	13.597	180	1365200	88.157	ug/L		95
113) Hexachlorobutadiene	14.174	225	451282	88.187	ug/L		99
114) 1,2,4-Trichlorobenzene	14.195	180	1241603	87.722	ug/L		99
115) Naphthalene	14.488	128	2798896	85.690	ug/L		100
116) 1,2,3-Trichlorobenzene	14.656	180	1153796	85.535	ug/L		98

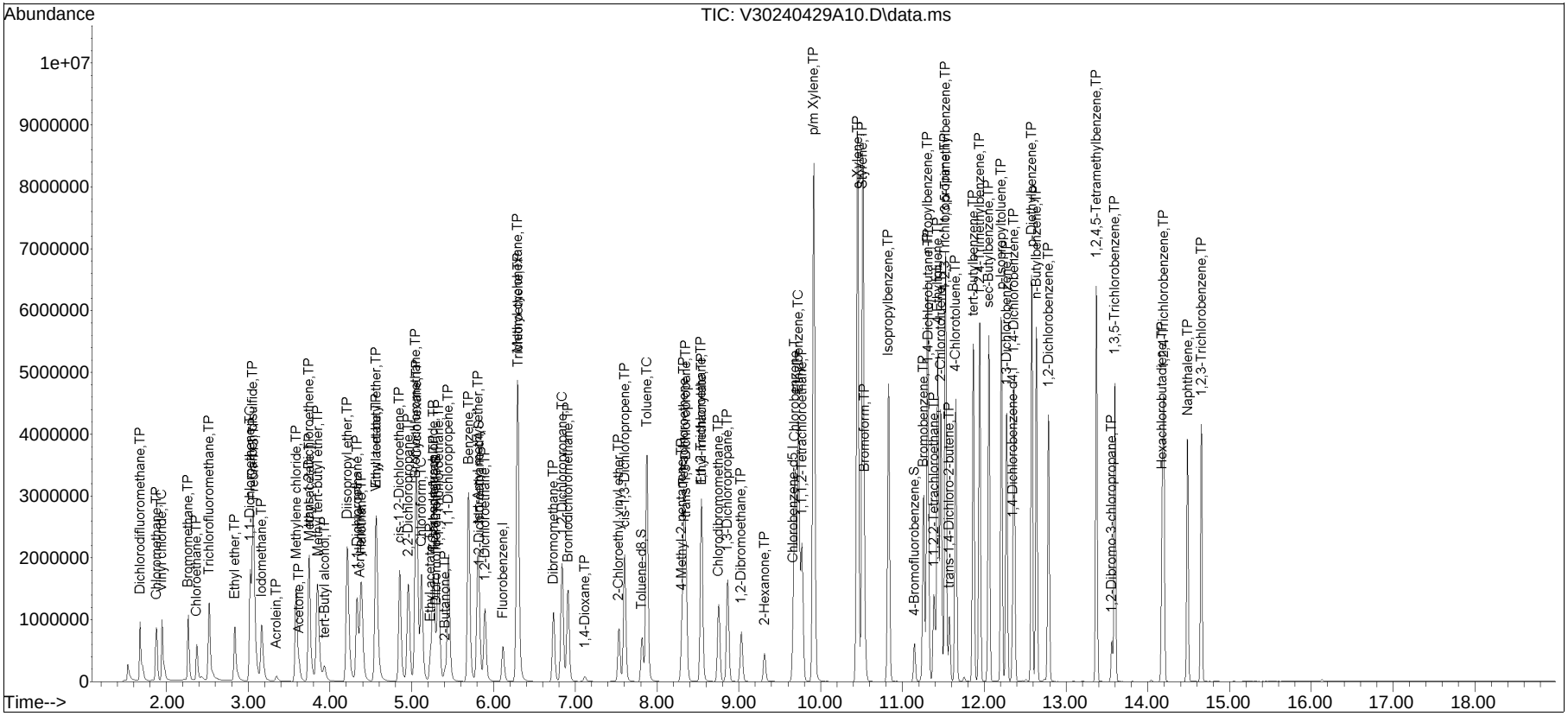
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A10.D
Acq On : 29 Apr 2024 07:57 pm
Operator : VOA130:PID
Sample : I8260STD80PPB
Misc : WG1915725,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 01 12:01:10 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 11:59:57 2024
Response via : Initial Calibration

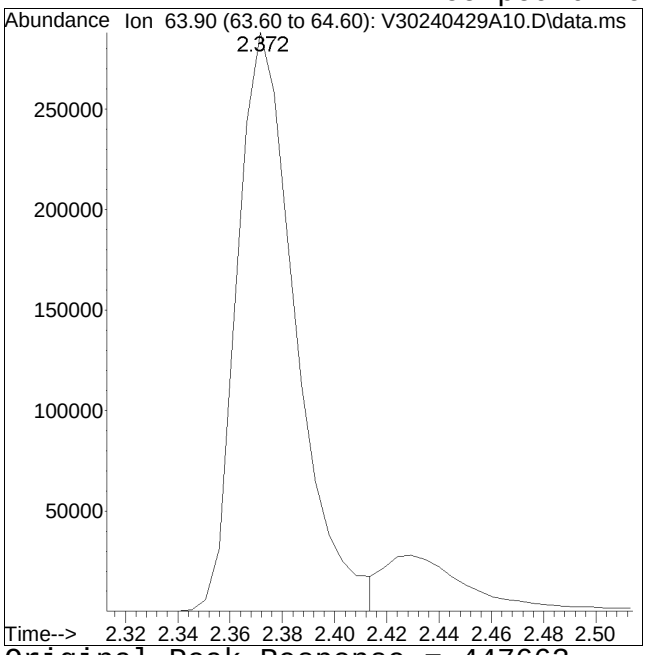
Sub List : 8260-Curve - Megamix plus DioxV30240429A08.D•

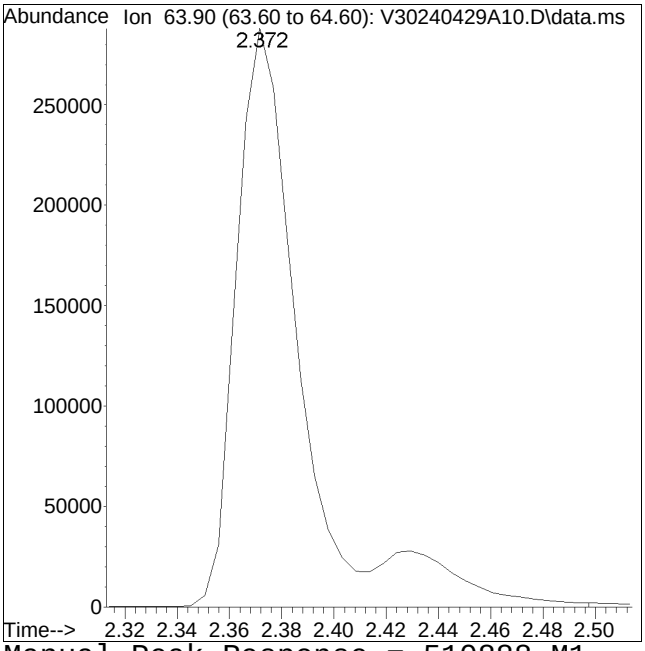


Manual Integration Report

Data Path : K:\VOA130\2024\240429ICAL\QMethod : V130_240429A_8260D.m
Data File : V30240429A10.D Operator : VOA130:PID
Date Inj'd : 4/29/2024 7:57 pm Instrument : VOA130
Sample : I8260STD80PPB Quant Date : 5/1/2024 12:01 pm

Compound #6: Chloroethane



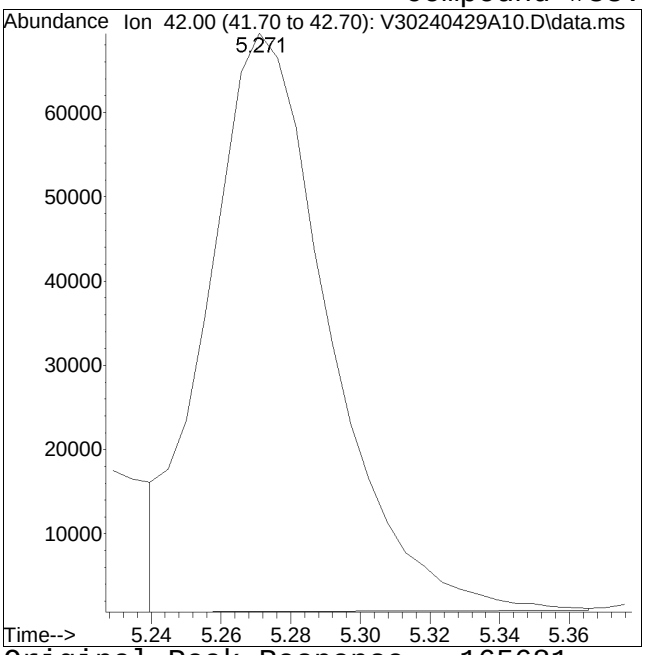


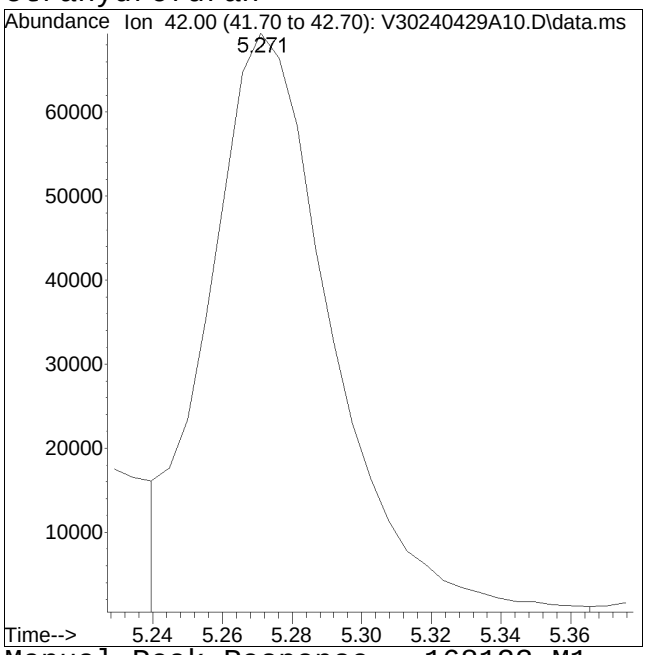
Original Peak Response = 447663 Manual Peak Response = 510888 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA130\2024\240429ICAL\QMethod : V130_240429A_8260D.m
Data File : V30240429A10.D Operator : VOA130:PID
Date Inj'd : 4/29/2024 7:57 pm Instrument : VOA130
Sample : I8260STD80PPB Quant Date : 5/1/2024 12:01 pm

Compound #38: Tetrahydrofuran



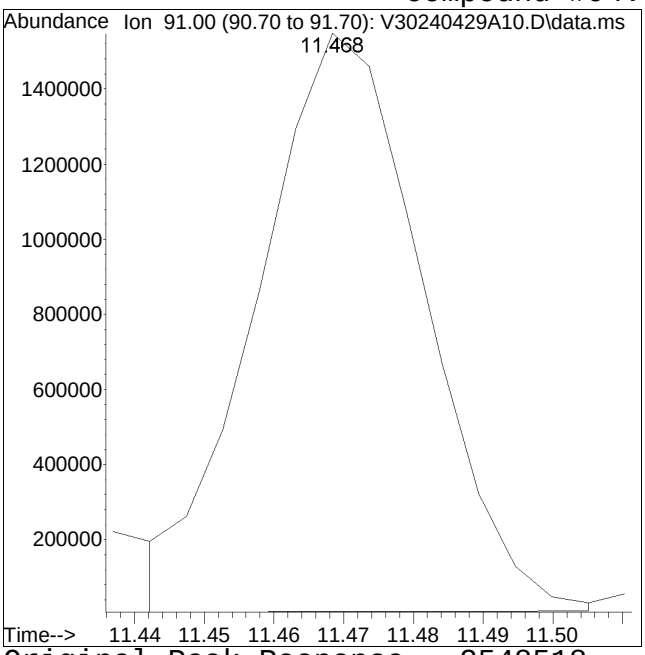


Original Peak Response = 165681 Manual Peak Response = 168123 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

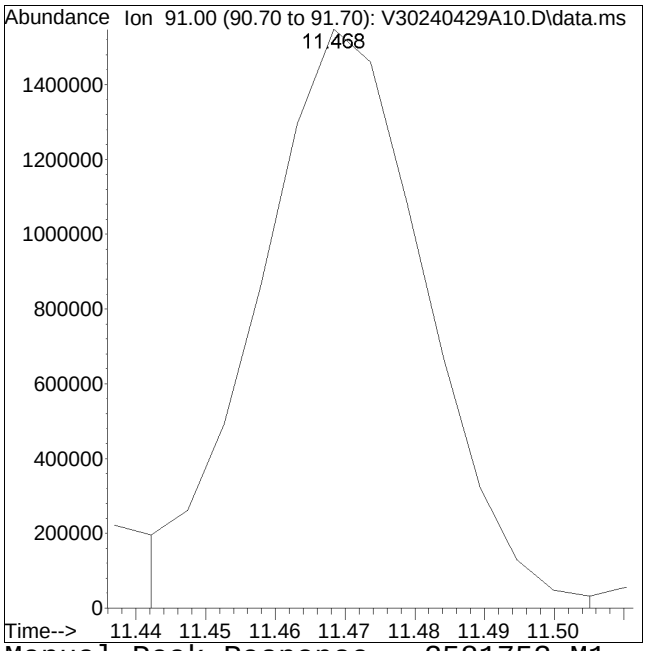
Manual Integration Report

Data Path : K:\VOA130\2024\240429ICAL\QMethod : V130_240429A_8260D.m
Data File : V30240429A10.D Operator : VOA130:PID
Date Inj'd : 4/29/2024 7:57 pm Instrument : VOA130
Sample : I8260STD80PPB Quant Date : 5/1/2024 12:01 pm

Compound #94: 2-Chlorotoluene



Original Peak Response = 2548518



Manual Peak Response = 2581753 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A11.D
Acq On : 29 Apr 2024 08:18 pm
Operator : VOA130:PID
Sample : I8260STD120PPB
Misc : WG1915725,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 01 12:01:18 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 11:59:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240429ICAL\V30240429A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.115	96	627668	10.000	ug/L	0.00
Standard Area 1 = 569909			Recovery = 110.13%			
63) Chlorobenzene-d5	9.665	117	445073	10.000	ug/L	0.00
Standard Area 1 = 448426			Recovery = 99.25%			
84) 1,4-Dichlorobenzene-d4	12.349	152	245328	10.000	ug/L	0.00
Standard Area 1 = 248100			Recovery = 98.88%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.297	113	164524	9.145	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 91.45%			
47) 1,2-Dichloroethane-d4	5.827	65	176104	9.145	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 91.45%			
64) Toluene-d8	7.814	98	586054	10.042	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.42%			
88) 4-Bromofluorobenzene	11.149	95	219773	9.870	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.70%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.680	85	1390999	118.886	ug/L	95
3) Chloromethane	1.879	50	1432561	120.491	ug/L	97
4) Vinyl chloride	1.947	62	1513266	120.822	ug/L	100
5) Bromomethane	2.267	94	893369	126.245	ug/L	98
6) Chloroethane	2.372	64	841743M1	115.010	ug/L	
7) Trichlorofluoromethane	2.524	101	1774089	121.071	ug/L	98
8) Ethyl ether	2.838	74	651893	122.169	ug/L #	82
10) 1,1-Dichloroethene	3.027	96	1242915	120.217	ug/L #	72
11) Carbon disulfide	3.059	76	3317797	117.863	ug/L	99
12) Freon-113	3.069	101	1265702	123.930	ug/L	84
13) Iodomethane	3.169	142	1911183	133.696	ug/L	100
14) Acrolein	3.347	56	127963	98.559	ug/L	97
15) Methylene chloride	3.588	84	1356441	113.880	ug/L	78
17) Acetone	3.625	43	267879	90.109	ug/L #	87
18) trans-1,2-Dichloroethene	3.745	96	1324763	119.422	ug/L	81
19) Methyl acetate	3.751	43	614060	104.149	ug/L #	85
21) Methyl tert-butyl ether	3.850	73	3311552	133.635	ug/L	91
22) tert-Butyl alcohol	3.934	59	462684	627.402	ug/L	90
24) Diisopropyl ether	4.212	45	3851719	130.814	ug/L #	93
25) 1,1-Dichloroethane	4.333	63	2451679	117.490	ug/L #	97
26) Halothane	4.385	117	1057385	124.626	ug/L	97

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A11.D
Acq On : 29 Apr 2024 08:18 pm
Operator : VOA130:PID
Sample : I8260STD120PPB
Misc : WG1915725,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 01 12:01:18 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 11:59:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240429ICAL\V30240429A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.369	53	315231	111.546	ug/L		94
28) Ethyl tert-butyl ether	4.563	59	3854830	136.353	ug/L	#	76
29) Vinyl acetate	4.569	43	1954373	122.736	ug/L	#	91
30) cis-1,2-Dichloroethene	4.852	96	1507244	117.262	ug/L	#	80
31) 2,2-Dichloropropane	4.957	77	1962849	117.078	ug/L		81
33) Bromochloromethane	5.046	128	704547	120.157	ug/L	#	57
34) Cyclohexane	5.061	56	2268505	125.598	ug/L		81
35) Chloroform	5.119	83	2351372	116.669	ug/L		94
36) Ethyl acetate	5.229	43	898491	132.361	ug/L	#	96
37) Carbon tetrachloride	5.266	117	1810317	133.254	ug/L		97
38) Tetrahydrofuran	5.271	42	253278M1	118.696	ug/L		
40) 1,1,1-Trichloroethane	5.329	97	2075024	123.973	ug/L		92
42) 2-Butanone	5.408	43	407216	128.837	ug/L		98
43) 1,1-Dichloropropene	5.449	75	1875499	134.146	ug/L		93
45) Benzene	5.696	78	5207601	128.639	ug/L		96
46) tert-Amyl methyl ether	5.811	73	3306972	132.092	ug/L		93
48) 1,2-Dichloroethane	5.895	62	1674325	118.924	ug/L	#	97
51) Methyl cyclohexane	6.294	83	2228996	134.253	ug/L		82
52) Trichloroethene	6.299	95	1495167	134.008	ug/L		91
54) Dibromomethane	6.734	93	784589	121.050	ug/L	#	87
55) 1,2-Dichloropropane	6.839	63	1402787	131.023	ug/L		96
57) 2-Chloroethyl vinyl ether	7.536	63	722557	132.892	ug/L	#	81
58) Bromodichloromethane	6.912	83	1875367	126.890	ug/L	#	97
61) 1,4-Dioxane	7.117	88	110963	1227.114	ug/L	#	87
62) cis-1,3-Dichloropropene	7.604	75	2232750	134.655	ug/L	#	83
65) Toluene	7.877	92	3124740	128.524	ug/L		96
66) 4-Methyl-2-pentanone	8.302	58	317743	132.164	ug/L	#	74
67) Tetrachloroethene	8.328	166	1348579	135.257	ug/L	#	91
69) trans-1,3-Dichloropropene	8.354	75	1910971	144.786	ug/L	#	76
71) Ethyl methacrylate	8.548	69	1229903	125.710	ug/L	#	76
72) 1,1,2-Trichloroethane	8.538	83	919516	140.098	ug/L		95
73) Chlorodibromomethane	8.753	129	1306719	146.426	ug/L		98
74) 1,3-Dichloropropane	8.863	76	1866664	139.653	ug/L		100
75) 1,2-Dibromoethane	9.031	107	1066060	139.524	ug/L		99
77) 2-Hexanone	9.314	43	538447	130.719	ug/L		89
78) Chlorobenzene	9.686	112	3405437	128.955	ug/L		95
79) Ethylbenzene	9.728	91	5801816	127.708	ug/L		95
80) 1,1,1,2-Tetrachloroethane	9.770	131	1267795	144.634	ug/L		99
81) p/m Xylene	9.917	106	4606766	252.120	ug/L		87
82) o Xylene	10.451	106	4458507	250.695	ug/L		87

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A11.D
Acq On : 29 Apr 2024 08:18 pm
Operator : VOA130:PID
Sample : I8260STD120PPB
Misc : WG1915725,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 01 12:01:18 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 11:59:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240429ICAL\V30240429A08.D
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
83)	Styrene	10.514	104	7248645	248.094	ug/L		95
85)	Bromoform	10.535	173	748301	143.911	ug/L		97
87)	Isopropylbenzene	10.829	105	5672856	129.928	ug/L		95
89)	Bromobenzene	11.259	156	1465783	128.836	ug/L		99
90)	n-Propylbenzene	11.306	91	6678807	128.254	ug/L		92
91)	1,4-Dichlorobutane	11.317	55	1465268	127.118	ug/L		99
92)	1,1,2,2-Tetrachloroethane	11.385	83	1128552	125.877	ug/L	#	98
93)	4-Ethyltoluene	11.432	105	5751472	129.387	ug/L		95
94)	2-Chlorotoluene	11.469	91	4095651M1	126.837	ug/L		
95)	1,3,5-Trimethylbenzene	11.531	105	5067866	130.720	ug/L		94
96)	1,2,3-Trichloropropane	11.521	75	914913	127.662	ug/L		87
97)	trans-1,4-Dichloro-2-b...	11.573	53	319360	124.497	ug/L	#	80
98)	4-Chlorotoluene	11.652	91	4300360	127.491	ug/L		91
99)	tert-Butylbenzene	11.867	119	4183372	131.574	ug/L		93
102)	1,2,4-Trimethylbenzene	11.946	105	5034344	133.964	ug/L		94
103)	sec-Butylbenzene	12.056	105	5996605	131.571	ug/L		91
104)	p-Isopropyltoluene	12.208	119	5343201	133.914	ug/L		96
105)	1,3-Dichlorobenzene	12.276	146	2816549	129.582	ug/L		97
106)	1,4-Dichlorobenzene	12.365	146	2862084	129.167	ug/L		98
107)	p-Diethylbenzene	12.580	119	3340909	140.199	ug/L		95
108)	n-Butylbenzene	12.638	91	4574115	138.065	ug/L	#	95
109)	1,2-Dichlorobenzene	12.790	146	2723715	129.787	ug/L		98
110)	1,2,4,5-Tetramethylben...	13.372	119	4993696	142.833	ug/L		94
111)	1,2-Dibromo-3-chloropr...	13.561	155	210886	135.811	ug/L		97
112)	1,3,5-Trichlorobenzene	13.597	180	2197179	142.117	ug/L		95
113)	Hexachlorobutadiene	14.174	225	729830	142.855	ug/L		99
114)	1,2,4-Trichlorobenzene	14.195	180	1970031	139.418	ug/L		99
115)	Naphthalene	14.483	128	4229930	129.716	ug/L		100
116)	1,2,3-Trichlorobenzene	14.656	180	1803539	133.924	ug/L		98

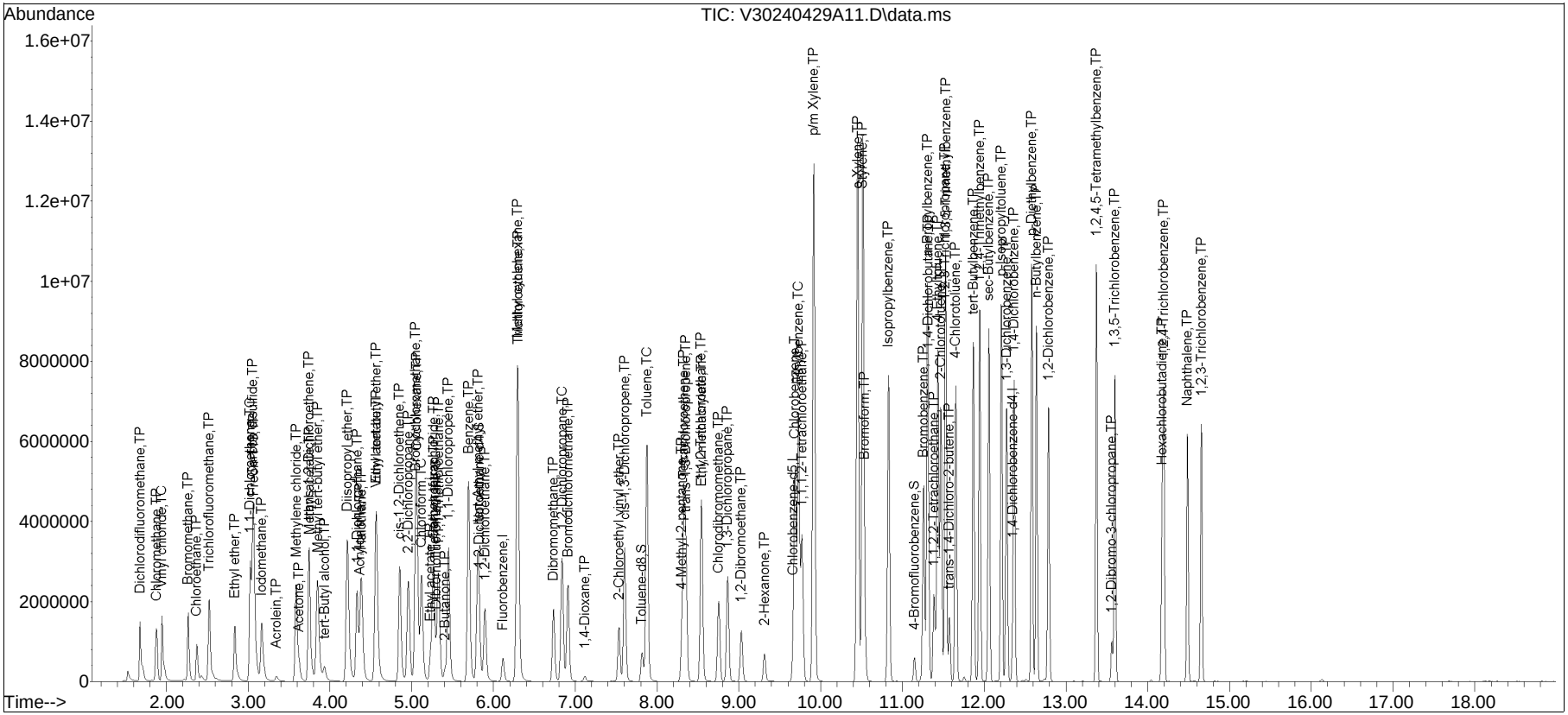
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A11.D
Acq On : 29 Apr 2024 08:18 pm
Operator : VOA130:PID
Sample : I8260STD120PPB
Misc : WG1915725,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 01 12:01:18 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 11:59:57 2024
Response via : Initial Calibration

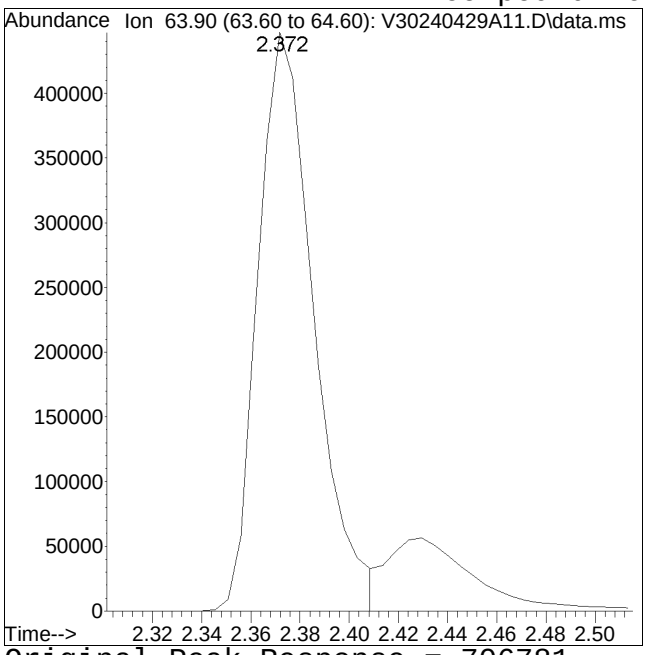
Sub List : 8260-Curve - Megamix plus DioxV30240429A08.D•

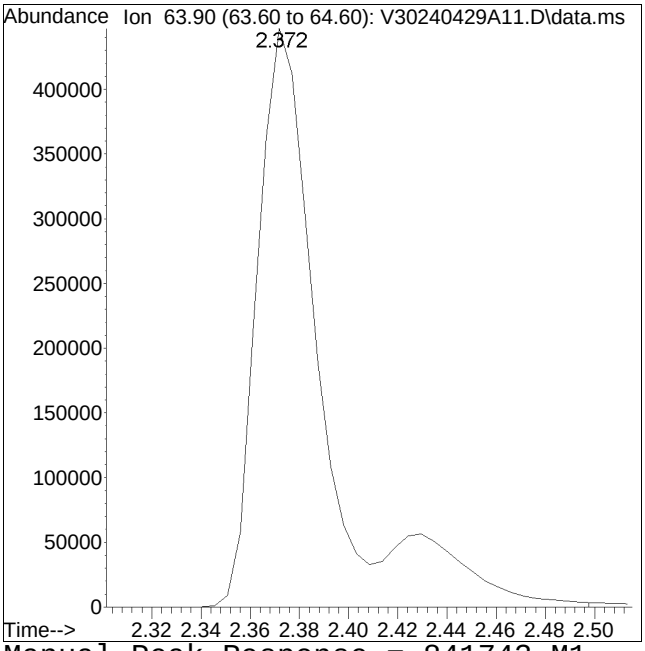


Manual Integration Report

Data Path : K:\VOA130\2024\240429ICAL\QMethod : V130_240429A_8260D.m
Data File : V30240429A11.D Operator : VOA130:PID
Date Inj'd : 4/29/2024 8:18 pm Instrument : VOA130
Sample : I8260STD120PPB Quant Date : 5/1/2024 12:01 pm

Compound #6: Chloroethane



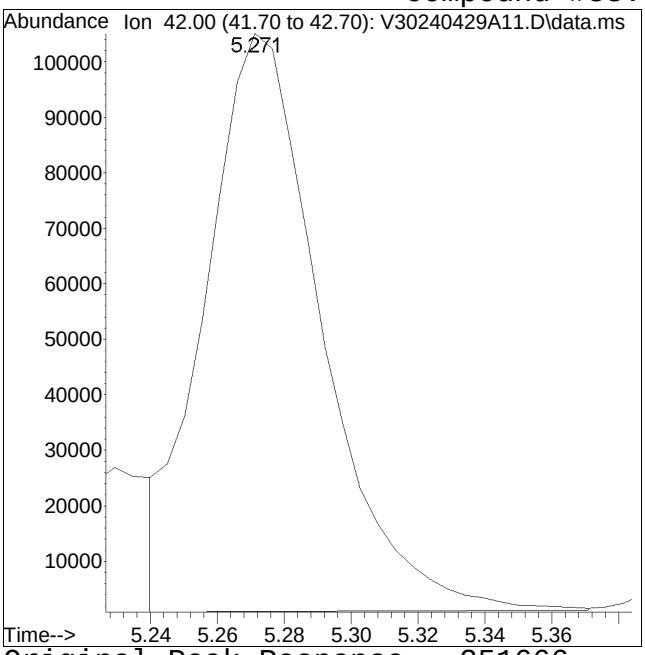


Original Peak Response = 706781 Manual Peak Response = 841743 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

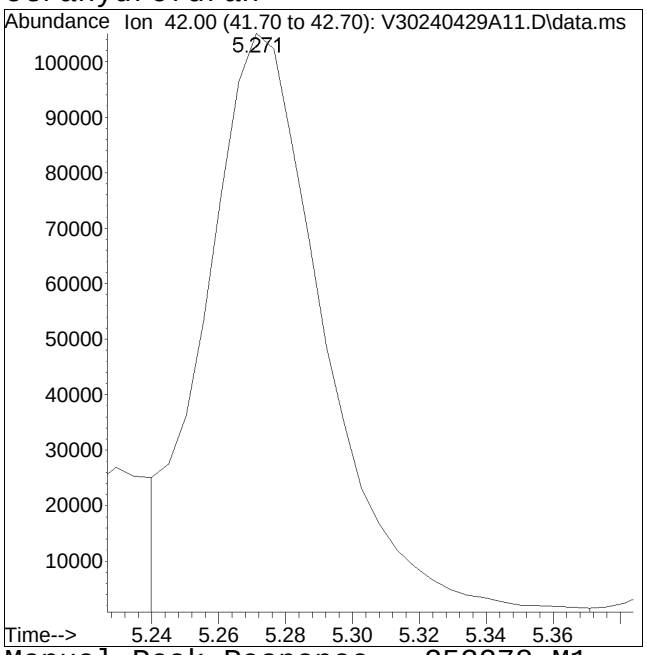
Manual Integration Report

Data Path : K:\VOA130\2024\240429ICAL\QMethod : V130_240429A_8260D.m
Data File : V30240429A11.D Operator : VOA130:PID
Date Inj'd : 4/29/2024 8:18 pm Instrument : VOA130
Sample : I8260STD120PPB Quant Date : 5/1/2024 12:01 pm

Compound #38: Tetrahydrofuran



Original Peak Response = 251666



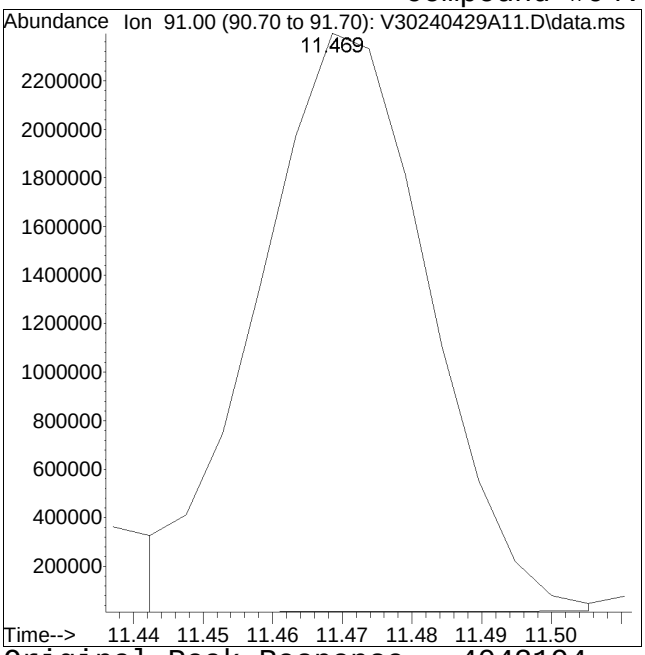
Manual Peak Response = 253278 M1

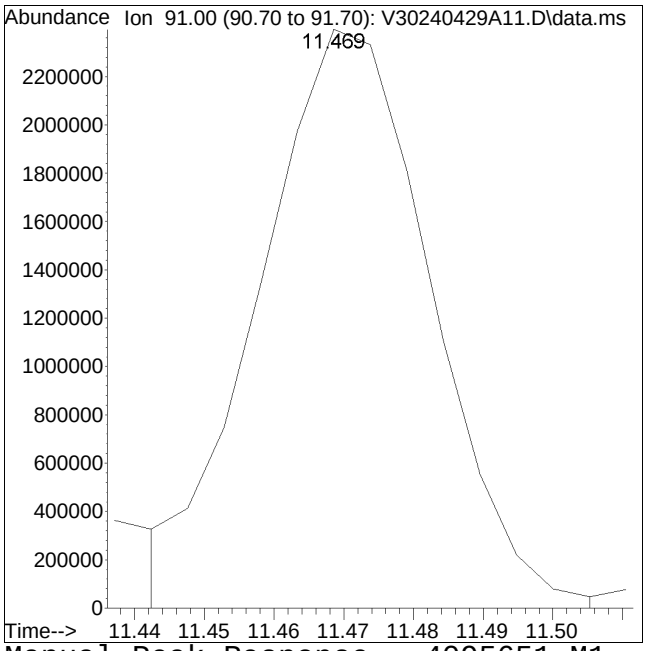
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA130\2024\240429ICAL\QMethod : V130_240429A_8260D.m
Data File : V30240429A11.D Operator : VOA130:PID
Date Inj'd : 4/29/2024 8:18 pm Instrument : VOA130
Sample : I8260STD120PPB Quant Date : 5/1/2024 12:01 pm

Compound #94: 2-Chlorotoluene





Original Peak Response = 4043194 Manual Peak Response = 4095651 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A12.D
Acq On : 29 Apr 2024 08:40 pm
Operator : VOA130:PID
Sample : I8260STD200PPB
Misc : WG1915725,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 01 12:01:26 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 11:59:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240429ICAL\V30240429A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	6.115	96	638709	10.000	ug/L		0.00
Standard Area 1 = 569909			Recovery = 112.07%				
63) Chlorobenzene-d5	9.665	117	456956	10.000	ug/L		0.00
Standard Area 1 = 448426			Recovery = 101.90%				
84) 1,4-Dichlorobenzene-d4	12.355	152	252351	10.000	ug/L		0.00
Standard Area 1 = 248100			Recovery = 101.71%				
System Monitoring Compounds							
39) Dibromofluoromethane	5.297	113	166316	9.084	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 90.84%				
47) 1,2-Dichloroethane-d4	5.827	65	183516	9.365	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.65%				
64) Toluene-d8	7.819	98	594258	9.918	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.18%				
88) 4-Bromofluorobenzene	11.149	95	225702	9.854	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.54%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.680	85	2160132	181.431	ug/L		95
3) Chloromethane	1.874	50	2216241	183.184	ug/L		97
4) Vinyl chloride	1.947	62	2338770	183.504	ug/L		99
5) Bromomethane	2.267	94	1402027	194.700	ug/L		98
6) Chloroethane	2.372	64	923057M1	123.940	ug/L		
7) Trichlorofluoromethane	2.518	101	2746178	184.170	ug/L		98
8) Ethyl ether	2.838	74	1028798	189.471	ug/L	#	81
10) 1,1-Dichloroethene	3.027	96	1926189	183.083	ug/L	#	72
11) Carbon disulfide	3.053	76	5178609	180.788	ug/L		99
12) Freon-113	3.069	101	1973895	189.931	ug/L		84
13) Iodomethane	3.163	142	2994164	205.835	ug/L		99
14) Acrolein	3.347	56	211267	159.909	ug/L		99
15) Methylene chloride	3.588	84	2100368	173.288	ug/L		77
17) Acetone	3.625	43	439710	145.353	ug/L	#	87
18) trans-1,2-Dichloroethene	3.745	96	2057570	182.276	ug/L		81
19) Methyl acetate	3.751	43	1021273	170.220	ug/L	#	85
21) Methyl tert-butyl ether	3.850	73	5238369	207.737	ug/L		91
22) tert-Butyl alcohol	3.934	59	767337	1022.527	ug/L		90
24) Diisopropyl ether	4.212	45	5983929	199.716	ug/L	#	94
25) 1,1-Dichloroethane	4.333	63	3753695	176.777	ug/L	#	96
26) Halothane	4.385	117	1639643	189.911	ug/L		97

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A12.D
Acq On : 29 Apr 2024 08:40 pm
Operator : VOA130:PID
Sample : I8260STD200PPB
Misc : WG1915725,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 01 12:01:26 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 11:59:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240429ICAL\V30240429A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.369	53	524628	182.434	ug/L		95
28) Ethyl tert-butyl ether	4.563	59	6023991	209.396	ug/L	#	76
29) Vinyl acetate	4.568	43	3031316	187.077	ug/L	#	91
30) cis-1,2-Dichloroethene	4.852	96	2326766	177.891	ug/L	#	80
31) 2,2-Dichloropropane	4.956	77	2983801	174.898	ug/L		81
33) Bromochloromethane	5.046	128	1095344	183.576	ug/L	#	57
34) Cyclohexane	5.061	56	3537120	192.451	ug/L		82
35) Chloroform	5.119	83	3610116	176.028	ug/L		94
36) Ethyl acetate	5.229	43	1481475	214.470	ug/L	#	96
37) Carbon tetrachloride	5.261	117	2838771	205.344	ug/L		97
38) Tetrahydrofuran	5.271	42	419535M4	193.212	ug/L		
40) 1,1,1-Trichloroethane	5.329	97	3215242	188.776	ug/L		92
42) 2-Butanone	5.407	43	675447	210.008	ug/L		98
43) 1,1-Dichloropropene	5.449	75	2926717	205.716	ug/L		93
45) Benzene	5.696	78	7928976	192.477	ug/L		96
46) tert-Amyl methyl ether	5.811	73	5253511	206.216	ug/L		93
48) 1,2-Dichloroethane	5.895	62	2617948	182.734	ug/L	#	97
51) Methyl cyclohexane	6.293	83	3539883	209.522	ug/L		82
52) Trichloroethene	6.293	95	2340953	206.187	ug/L		92
54) Dibromomethane	6.734	93	1255702	190.386	ug/L	#	87
55) 1,2-Dichloropropane	6.839	63	2179860	200.084	ug/L		96
57) 2-Chloroethyl vinyl ether	7.531	63	1151300	208.085	ug/L	#	81
58) Bromodichloromethane	6.912	83	2925828	194.544	ug/L	#	98
61) 1,4-Dioxane	7.117	88	178716	1942.215	ug/L	#	88
62) cis-1,3-Dichloropropene	7.604	75	3492078	206.963	ug/L	#	82
65) Toluene	7.877	92	4804957	192.493	ug/L		94
66) 4-Methyl-2-pentanone	8.302	58	519291	210.381	ug/L	#	73
67) Tetrachloroethene	8.328	166	2108191	205.945	ug/L	#	91
69) trans-1,3-Dichloropropene	8.354	75	3019337	222.813	ug/L	#	76
71) Ethyl methacrylate	8.548	69	1929668	192.104	ug/L	#	75
72) 1,1,2-Trichloroethane	8.538	83	1476291	219.080	ug/L		96
73) Chlorodibromomethane	8.752	129	2107982	230.069	ug/L		98
74) 1,3-Dichloropropane	8.863	76	2965062	216.061	ug/L		99
75) 1,2-Dibromoethane	9.030	107	1728115	220.291	ug/L		99
77) 2-Hexanone	9.313	43	864560	204.431	ug/L		89
78) Chlorobenzene	9.686	112	5241609	193.325	ug/L		94
79) Ethylbenzene	9.728	91	8750082	187.595	ug/L		93
80) 1,1,1,2-Tetrachloroethane	9.770	131	2008193	223.143	ug/L		99
81) p/m Xylene	9.916	106	6958001	370.896	ug/L		83
82) o Xylene	10.451	106	6735853	368.897	ug/L		82

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A12.D
Acq On : 29 Apr 2024 08:40 pm
Operator : VOA130:PID
Sample : I8260STD200PPB
Misc : WG1915725,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 01 12:01:26 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 11:59:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240429ICAL\V30240429A08.D
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
83)	Styrene	10.519	104	10652706	355.121	ug/L		98
85)	Bromoform	10.540	173	1244615	232.699	ug/L		98
87)	Isopropylbenzene	10.834	105	8551252	190.403	ug/L		93
89)	Bromobenzene	11.259	156	2280349	194.855	ug/L		99
90)	n-Propylbenzene	11.306	91	9931682	185.411	ug/L	#	89
91)	1,4-Dichlorobutane	11.316	55	2338103	197.195	ug/L		100
92)	1,1,2,2-Tetrachloroethane	11.385	83	1842503	199.791	ug/L	#	99
93)	4-Ethyltoluene	11.432	105	8661374	189.426	ug/L		93
94)	2-Chlorotoluene	11.474	91	6276063M6	188.953	ug/L		
95)	1,3,5-Trimethylbenzene	11.531	105	7626841	191.251	ug/L		93
96)	1,2,3-Trichloropropane	11.521	75	1493201	202.554	ug/L		86
97)	trans-1,4-Dichloro-2-b...	11.573	53	518320	196.435	ug/L	#	76
98)	4-Chlorotoluene	11.652	91	6584202	189.767	ug/L		90
99)	tert-Butylbenzene	11.867	119	6409445	195.978	ug/L		93
102)	1,2,4-Trimethylbenzene	11.946	105	7585528	196.234	ug/L		92
103)	sec-Butylbenzene	12.061	105	9027448	192.558	ug/L		89
104)	p-Isopropyltoluene	12.213	119	8032040	195.701	ug/L		95
105)	1,3-Dichlorobenzene	12.276	146	4350461	194.583	ug/L		97
106)	1,4-Dichlorobenzene	12.370	146	4378423	192.101	ug/L		97
107)	p-Diethylbenzene	12.585	119	5126200	209.130	ug/L		95
108)	n-Butylbenzene	12.643	91	6942747	203.728	ug/L	#	93
109)	1,2-Dichlorobenzene	12.790	146	4174822	193.396	ug/L		98
110)	1,2,4,5-Tetramethylben...	13.372	119	7599455	211.315	ug/L		93
111)	1,2-Dibromo-3-chloropr...	13.560	155	346160	216.724	ug/L		97
112)	1,3,5-Trichlorobenzene	13.602	180	3384125	212.798	ug/L		95
113)	Hexachlorobutadiene	14.174	225	1161491	221.020	ug/L		99
114)	1,2,4-Trichlorobenzene	14.195	180	3082846	212.099	ug/L		99
115)	Naphthalene	14.483	128	6611398	197.104	ug/L		100
116)	1,2,3-Trichlorobenzene	14.656	180	2837595	204.844	ug/L		99

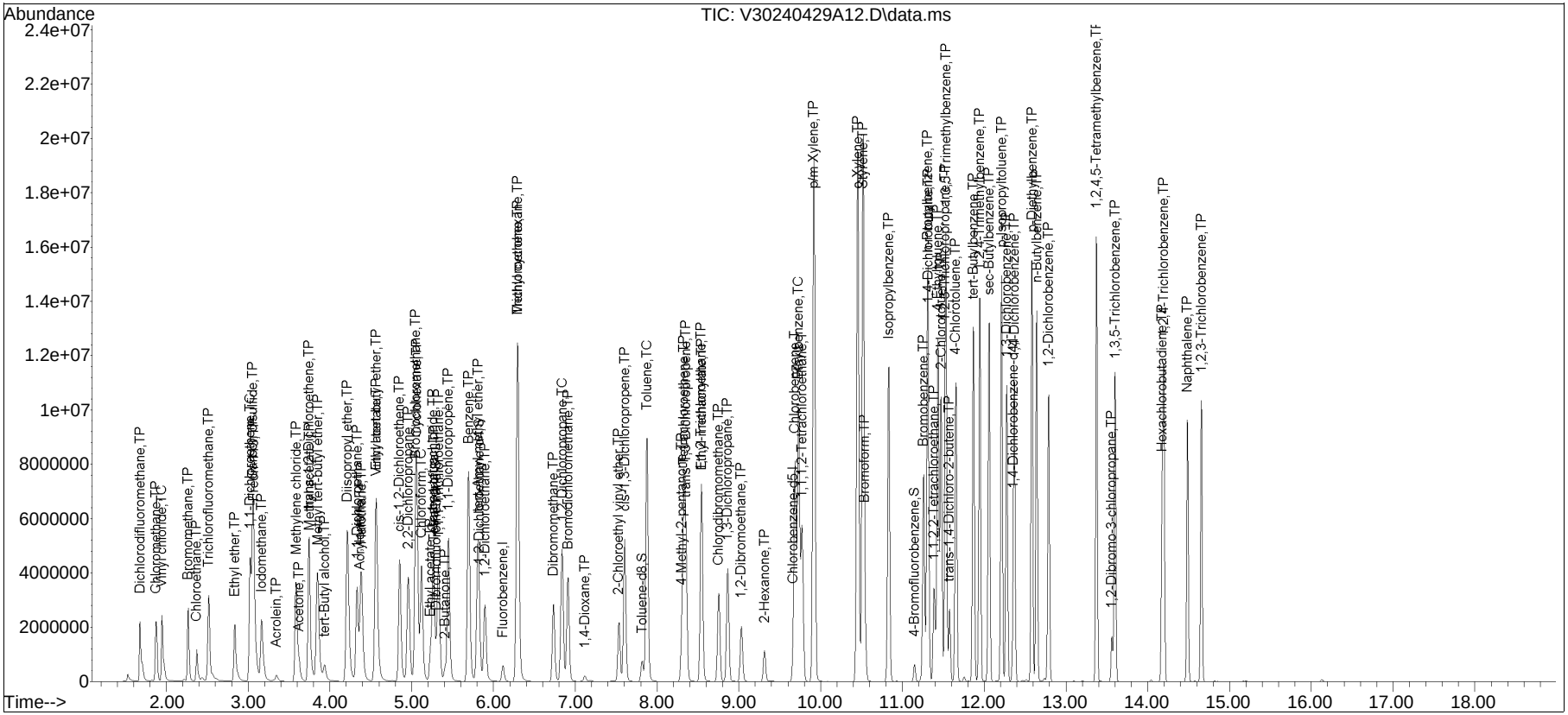
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A12.D
Acq On : 29 Apr 2024 08:40 pm
Operator : VOA130:PID
Sample : I8260STD200PPB
Misc : WG1915725,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 01 12:01:26 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 11:59:57 2024
Response via : Initial Calibration

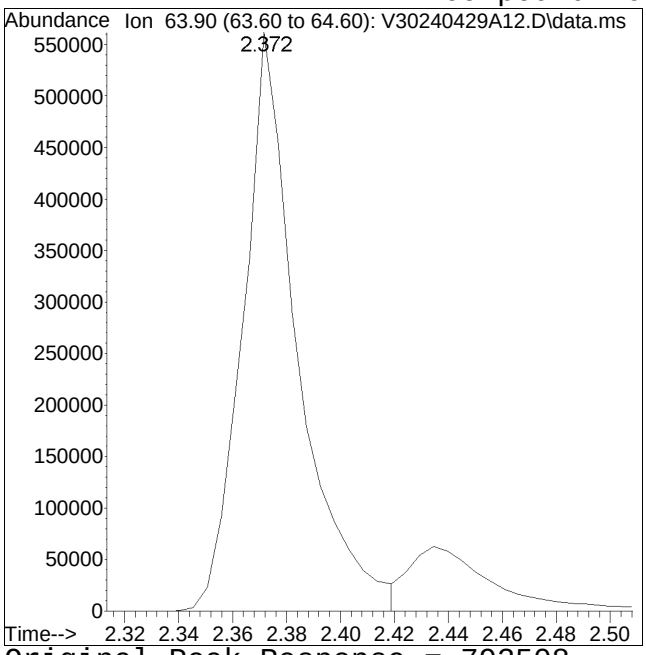
Sub List : 8260-Curve - Megamix plus DioxV30240429A08.D•

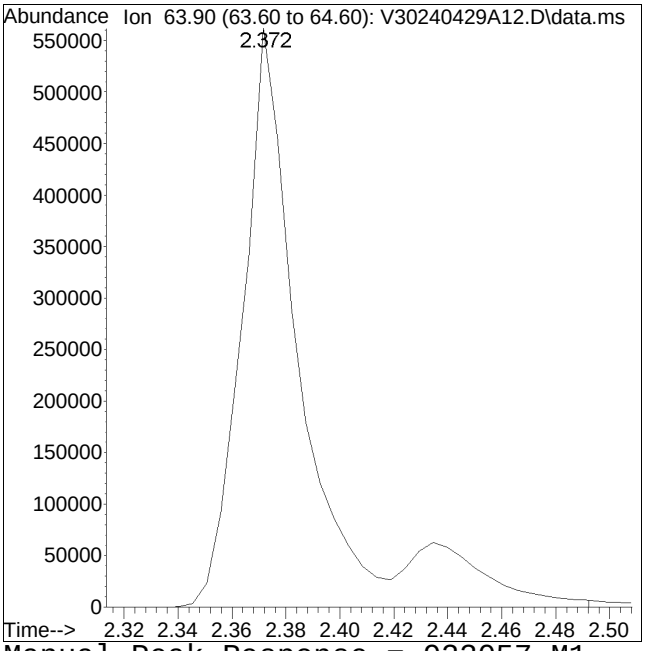


Manual Integration Report

Data Path : K:\VOA130\2024\240429ICAL\QMethod : V130_240429A_8260D.m
Data File : V30240429A12.D Operator : VOA130:PID
Date Inj'd : 4/29/2024 8:40 pm Instrument : VOA130
Sample : I8260STD200PPB Quant Date : 5/1/2024 12:01 pm

Compound #6: Chloroethane





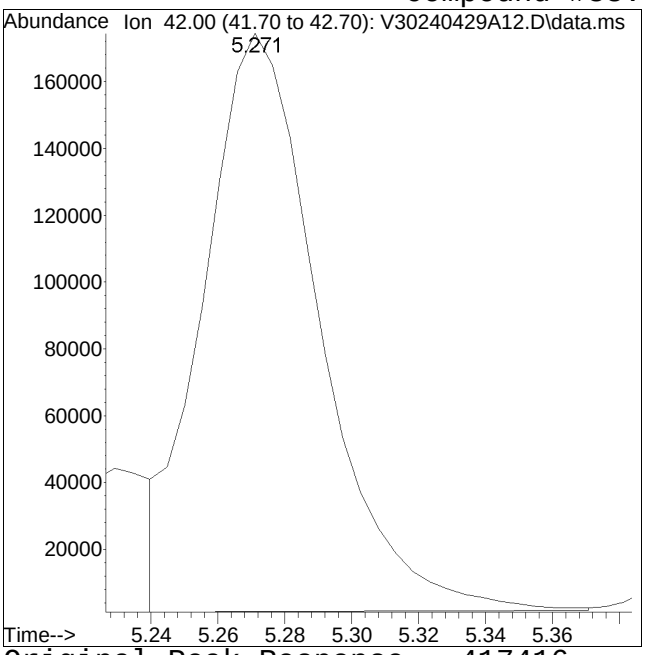
Original Peak Response = 793508 Manual Peak Response = 923057 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

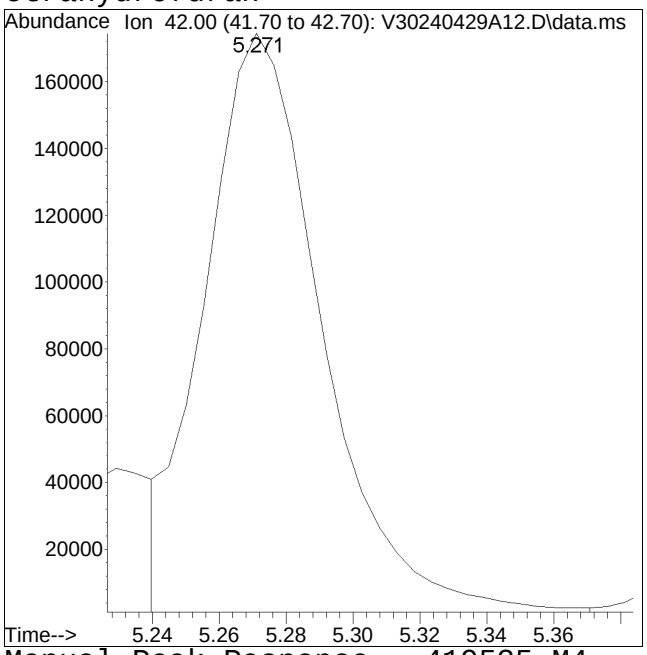
Manual Integration Report

Data Path : K:\VOA130\2024\240429ICAL\QMethod : V130_240429A_8260D.m
Data File : V30240429A12.D Operator : VOA130:PID
Date Inj'd : 4/29/2024 8:40 pm Instrument : VOA130
Sample : I8260STD200PPB Quant Date : 5/1/2024 12:01 pm

Compound #38: Tetrahydrofuran



Original Peak Response = 417416



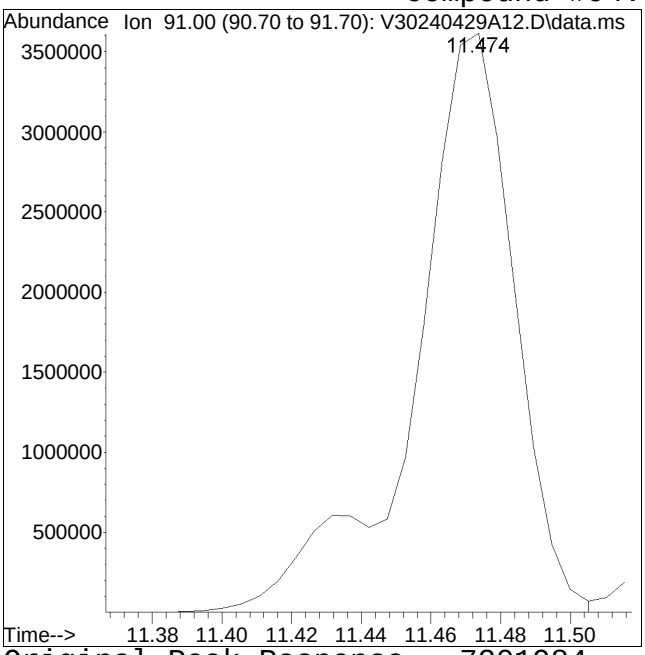
Manual Peak Response = 419535 M4

M4 = Poor automated baseline construction.

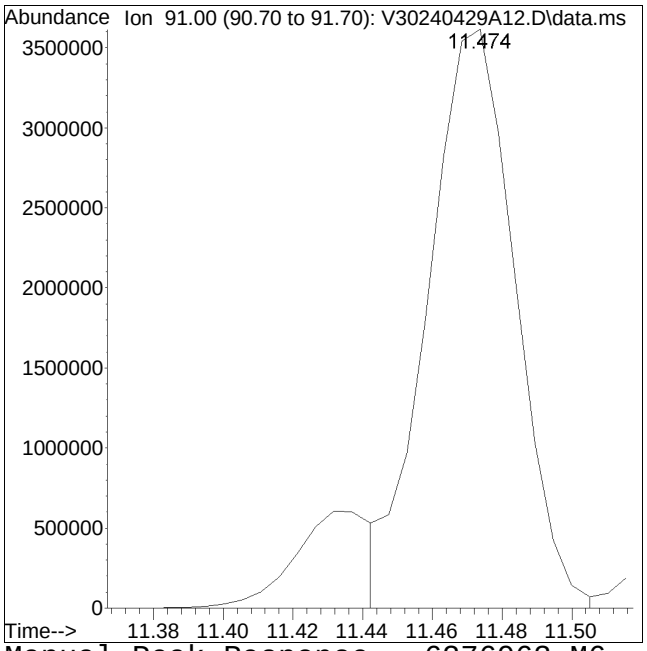
Manual Integration Report

Data Path : K:\VOA130\2024\240429ICAL\QMethod : V130_240429A_8260D.m
Data File : V30240429A12.D Operator : VOA130:PID
Date Inj'd : 4/29/2024 8:40 pm Instrument : VOA130
Sample : I8260STD200PPB Quant Date : 5/1/2024 12:01 pm

Compound #94: 2-Chlorotoluene



Original Peak Response = 7201984



Manual Peak Response = 6276063 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A17.D
Acq On : 29 Apr 2024 10:30 pm
Operator : VOA130:PID
Sample : C8260STD10PPB
Misc : WG1915725,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 01 12:12:45 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	96	0.00
2	TP	Dichlorodifluoromethane	0.186	0.189	-1.6	98	0.00
3	TP	Chloromethane	0.189	0.194	-2.6	102	0.00
4	TC	Vinyl chloride	0.200	0.206	-3.0	98	0.00
5	TP	Bromomethane	0.113	0.129	-14.2	110	0.00
6	TP	Chloroethane	0.124	0.123	0.8	100	0.00
7	TP	Trichlorofluoromethane	0.233	0.250	-7.3	103	0.00
8	TP	Ethyl ether	0.085	0.098	-15.3	110	0.00
10	TC	1,1-Dichloroethene	0.165	0.153	7.3	92	0.00
11	TP	Carbon disulfide	0.448	0.306	31.7#	67	0.00
12	TP	Freon-113	0.163	0.158	3.1	94	0.00
13	TP	Iodomethane	0.228	0.272	-19.3	117	0.00
14	TP	Acrolein	0.018	0.022	-22.2#	107	0.00
15	TP	Methylene chloride	0.190	0.182	4.2	93	0.00
17	TP	Acetone	0.039	0.038	2.6	91	0.00
18	TP	trans-1,2-Dichloroethene	0.177	0.168	5.1	92	0.00
19	TP	Methyl acetate	0.085	0.084	1.2	93	0.00
21	TP	Methyl tert-butyl ether	0.395	0.380	3.8	95	0.00
22	TP	tert-Butyl alcohol	0.012	0.012	0.0	94	0.00
24	TP	Diisopropyl ether	0.469	0.426	9.2	93	0.00
25	TP	1,1-Dichloroethane	0.332	0.321	3.3	91	0.00
26	TP	Halothane	0.135	0.131	3.0	92	0.00
27	TP	Acrylonitrile	0.045	0.047	-4.4	100	0.00
28	TP	Ethyl tert-butyl ether	0.450	0.406	9.8	93	0.00
29	TP	Vinyl acetate	0.254	0.212	16.5	85	0.00
30	TP	cis-1,2-Dichloroethene	0.205	0.190#	7.3	87	0.00
31	TP	2,2-Dichloropropane	0.267	0.234	12.4	83	0.00
33	TP	Bromochloromethane	0.093	0.090#	3.2	90	0.00
34	TP	Cyclohexane	0.288	0.261	9.4	91	0.00
35	TC	Chloroform	0.321	0.315	1.9	94	0.00
36	TP	Ethyl acetate	0.108	0.109	-0.9	100	0.00
37	TP	Carbon tetrachloride	0.216	0.214	0.9	96	0.00
38	TP	Tetrahydrofuran	0.034	0.037	-8.8	102	0.00
39	S	Dibromofluoromethane	0.287	0.292	-1.7	95	0.00
40	TP	1,1,1-Trichloroethane	0.267	0.265	0.7	96	0.00
42	TP	2-Butanone	0.050	0.050	0.0	103	0.00
43	TP	1,1-Dichloropropene	0.223	0.208	6.7	94	0.00
45	TP	Benzene	0.645	0.605	6.2	92	0.00
46	TP	tert-Amyl methyl ether	0.399	0.360	9.8	93	0.00

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A17.D
Acq On : 29 Apr 2024 10:30 pm
Operator : VOA130:PID
Sample : C8260STD10PPB
Misc : WG1915725,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 01 12:12:45 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
47	S	1,2-Dichloroethane-d4	0.307	0.330	-7.5	96	0.00
48	TP	1,2-Dichloroethane	0.224	0.223	0.4	94	0.00
51	TP	Methyl cyclohexane	0.265	0.228	14.0	91	0.00
52	TP	Trichloroethene	0.178	0.166#	6.7	95	0.00
54	TP	Dibromomethane	0.103	0.103	0.0	94	0.00
55	TC	1,2-Dichloropropane	0.171	0.161	5.8	93	0.00
57	TP	2-Chloroethyl vinyl ether	0.087	0.093	-6.9	104	0.00
58	TP	Bromodichloromethane	0.235	0.216#	8.1	90	0.00
61	TP	1,4-Dioxane	0.00144	0.00142#	1.4	93	0.00
62	TP	cis-1,3-Dichloropropene	0.264	0.244#	7.6	93	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
64	S	Toluene-d8	1.311	1.309	0.2	95	0.00
65	TC	Toluene	0.546	0.509	6.8	91	0.00
66	TP	4-Methyl-2-pentanone	0.054	0.053	1.9	95	0.00
67	TP	Tetrachloroethene	0.224	0.202	9.8	92	0.00
69	TP	trans-1,3-Dichloropropene	0.297	0.265#	10.8	92	0.00
71	TP	Ethyl methacrylate	0.220	0.239	-8.6	105	0.00
72	TP	1,1,2-Trichloroethane	0.147	0.133#	9.5	92	0.00
73	TP	Chlorodibromomethane	* 10.000	8.888	11.1	95	0.00
74	TP	1,3-Dichloropropane	0.300	0.284	5.3	95	0.00
75	TP	1,2-Dibromoethane	0.172	0.156#	9.3	92	0.00
77	TP	2-Hexanone	0.093	0.097	-4.3	98	0.00
78	T	Chlorobenzene	0.593	0.571	3.7	94	0.00
79	TC	Ethylbenzene	1.021	0.983	3.7	92	0.00
80	T	1,1,1,2-Tetrachloroethane	0.197	0.169	14.2	92	0.00
81	TP	p/m Xylene	0.411	0.392	4.6	92	0.00
82	TP	o Xylene	0.400	0.393	1.8	93	0.00
83	TP	Styrene	0.656	0.659	-0.5	94	0.00
84	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	0.00
85	TP	Bromoform	0.212	0.185	12.7	94	0.00
87	TP	Isopropylbenzene	1.780	1.607	9.7	86	0.00
88	S	4-Bromofluorobenzene	0.908	0.910	-0.2	94	0.00
89	TP	Bromobenzene	0.464	0.440	5.2	92	0.00
90	TP	n-Propylbenzene	2.123	2.043	3.8	92	0.00
91	TP	1,4-Dichlorobutane	0.470	0.516	-9.8	106	0.00
92	TP	1,1,2,2-Tetrachloroethane	0.365	0.334	8.5	90	0.00
93	TP	4-Ethyltoluene	1.812	1.826	-0.8	96	0.00

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A17.D
Acq On : 29 Apr 2024 10:30 pm
Operator : VOA130:PID
Sample : C8260STD10PPB
Misc : WG1915725,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 01 12:12:45 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
94 TP	2-Chlorotoluene	1.316	1.266	3.8	92	0.00
95 TP	1,3,5-Trimethylbenzene	1.580	1.414	10.5	86	0.00
96 TP	1,2,3-Trichloropropane	0.292	0.290	0.7	97	0.00
97 TP	trans-1,4-Dichloro-2-butene	0.105	0.103	1.9	99	0.00
98 TP	4-Chlorotoluene	1.375	1.307	4.9	91	0.00
99 TP	tert-Butylbenzene	1.296	1.257	3.0	94	0.00
102 TP	1,2,4-Trimethylbenzene	1.532	1.385	9.6	88	0.00
103 TP	sec-Butylbenzene	1.858	1.807	2.7	94	0.00
104 TP	p-Isopropyltoluene	1.626	1.531	5.8	90	0.00
105 TP	1,3-Dichlorobenzene	0.886	0.857	3.3	93	0.00
106 TP	1,4-Dichlorobenzene	0.903	0.870	3.7	93	0.00
107 TP	p-Diethylbenzene	0.971	0.856	11.8	88	0.00
108 TP	n-Butylbenzene	1.350	1.277	5.4	94	0.00
109 TP	1,2-Dichlorobenzene	0.855	0.837	2.1	93	0.00
110 TP	1,2,4,5-Tetramethylbenzene	1.425	1.278	10.3	94	0.00
111 TP	1,2-Dibromo-3-chloropropane	0.063	0.062	1.6	96	0.00
112 TP	1,3,5-Trichlorobenzene	0.630	0.546	13.3	89	0.00
113 TP	Hexachlorobutadiene	0.208	0.184	11.5	92	0.00
114 TP	1,2,4-Trichlorobenzene	0.576	0.544	5.6	96	0.00
115 TP	Naphthalene	1.329	1.364	-2.6	98	0.00
116 TP	1,2,3-Trichlorobenzene	0.549	0.536	2.4	95	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 9 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A17.D
Acq On : 29 Apr 2024 10:30 pm
Operator : VOA130:PID
Sample : C8260STD10PPB
Misc : WG1915725,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 01 12:12:45 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240429ICAL\V30240429A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.115	96	545218	10.000	ug/L	0.00
Standard Area 1 = 569909			Recovery = 95.67%			
63) Chlorobenzene-d5	9.665	117	423715	10.000	ug/L	0.00
Standard Area 1 = 448426			Recovery = 94.49%			
84) 1,4-Dichlorobenzene-d4	12.349	152	234250	10.000	ug/L	0.00
Standard Area 1 = 248100			Recovery = 94.42%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.297	113	159242	10.189	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.89%			
47) 1,2-Dichloroethane-d4	5.827	65	179771	10.747	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.47%			
64) Toluene-d8	7.814	98	554720	9.985	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.85%			
88) 4-Bromofluorobenzene	11.149	95	213087	10.022	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.22%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.679	85	103194	10.154	ug/L	95
3) Chloromethane	1.873	50	105756	10.240	ug/L	96
4) Vinyl chloride	1.947	62	112530	10.343	ug/L	99
5) Bromomethane	2.267	94	70391	11.451	ug/L	99
6) Chloroethane	2.377	64	66846M1	9.888	ug/L	
7) Trichlorofluoromethane	2.529	101	136131	10.695	ug/L	99
8) Ethyl ether	2.838	74	53270	11.493	ug/L	81
10) 1,1-Dichloroethene	3.027	96	83478	9.295	ug/L #	73
11) Carbon disulfide	3.058	76	166876	6.825	ug/L	99
12) Freon-113	3.069	101	86380	9.737	ug/L	84
13) Iodomethane	3.169	142	148524	11.961	ug/L	99
14) Acrolein	3.347	56	11737	11.899	ug/L	97
15) Methylene chloride	3.588	84	99380	9.605	ug/L	78
17) Acetone	3.625	43	20712	9.835	ug/L	92
18) trans-1,2-Dichloroethene	3.745	96	91827	9.530	ug/L	81
19) Methyl acetate	3.751	43	45797	9.849	ug/L #	83
21) Methyl tert-butyl ether	3.850	73	207182	9.625	ug/L	88
22) tert-Butyl alcohol	3.934	59	32421	50.611	ug/L #	81
24) Diisopropyl ether	4.212	45	232525	9.091	ug/L #	94
25) 1,1-Dichloroethane	4.332	63	175264	9.669	ug/L	97
26) Halothane	4.385	117	71192	9.660	ug/L	99

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A17.D
Acq On : 29 Apr 2024 10:30 pm
Operator : VOA130:PID
Sample : C8260STD10PPB
Misc : WG1915725,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 01 12:12:45 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240429ICAL\V30240429A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.369	53	25521	10.396	ug/L		96
28) Ethyl tert-butyl ether	4.563	59	221480	9.019	ug/L	#	77
29) Vinyl acetate	4.568	43	115706	8.365	ug/L	#	92
30) cis-1,2-Dichloroethene	4.852	96	103337	9.255	ug/L	#	80
31) 2,2-Dichloropropane	4.956	77	127561	8.759	ug/L		84
33) Bromochloromethane	5.046	128	49233	9.666	ug/L	#	58
34) Cyclohexane	5.061	56	142408	9.077	ug/L		81
35) Chloroform	5.119	83	171935	9.821	ug/L		94
36) Ethyl acetate	5.229	43	59535	10.097	ug/L	#	95
37) Carbon tetrachloride	5.266	117	116519	9.874	ug/L		99
38) Tetrahydrofuran	5.276	42	20271M6	10.936	ug/L		
40) 1,1,1-Trichloroethane	5.329	97	144499	9.939	ug/L		93
42) 2-Butanone	5.413	43	27331	9.955	ug/L		99
43) 1,1-Dichloropropene	5.449	75	113611	9.355	ug/L		94
45) Benzene	5.696	78	329704	9.376	ug/L		95
46) tert-Amyl methyl ether	5.811	73	196367	9.030	ug/L		94
48) 1,2-Dichloroethane	5.895	62	121626	9.945	ug/L	#	98
51) Methyl cyclohexane	6.293	83	124378	8.624	ug/L		83
52) Trichloroethene	6.293	95	90429	9.331	ug/L		90
54) Dibromomethane	6.734	93	55987	9.944	ug/L	#	88
55) 1,2-Dichloropropane	6.839	63	87736	9.434	ug/L		96
57) 2-Chloroethyl vinyl ether	7.531	63	50812	10.758	ug/L	#	80
58) Bromodichloromethane	6.912	83	117864	9.181	ug/L	#	97
61) 1,4-Dioxane	7.117	88	38764	493.509	ug/L	#	88
62) cis-1,3-Dichloropropene	7.604	75	133246	9.251	ug/L	#	85
65) Toluene	7.877	92	215587	9.314	ug/L		98
66) 4-Methyl-2-pentanone	8.307	58	22369	9.773	ug/L	#	77
67) Tetrachloroethene	8.328	166	85719	9.031	ug/L	#	92
69) trans-1,3-Dichloropropene	8.354	75	112349	8.941	ug/L	#	79
71) Ethyl methacrylate	8.548	69	101284	10.874	ug/L		91
72) 1,1,2-Trichloroethane	8.537	83	56211	8.996	ug/L		94
73) Chlorodibromomethane	8.752	129	75204	8.888	ug/L		97
74) 1,3-Dichloropropane	8.863	76	120163	9.443	ug/L		99
75) 1,2-Dibromoethane	9.030	107	66244	9.107	ug/L		99
77) 2-Hexanone	9.319	43	41217	10.511	ug/L		92
78) Chlorobenzene	9.686	112	241771	9.617	ug/L		95
79) Ethylbenzene	9.728	91	416391	9.627	ug/L		96
80) 1,1,1,2-Tetrachloroethane	9.770	131	71765	8.600	ug/L		99
81) p/m Xylene	9.916	106	332604	19.120	ug/L		91
82) o Xylene	10.451	106	333260	19.683	ug/L		92

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A17.D
Acq On : 29 Apr 2024 10:30 pm
Operator : VOA130:PID
Sample : C8260STD10PPB
Misc : WG1915725,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 01 12:12:45 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240429ICAL\V30240429A08.D
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
83)	Styrene	10.514	104	558548	20.081	ug/L		93
85)	Bromoform	10.535	173	43439	8.749	ug/L		98
87)	Isopropylbenzene	10.834	105	376555	9.032	ug/L		96
89)	Bromobenzene	11.259	156	103087	9.489	ug/L		100
90)	n-Propylbenzene	11.306	91	478610	9.625	ug/L		95
91)	1,4-Dichlorobutane	11.316	55	120771	10.973	ug/L		98
92)	1,1,2,2-Tetrachloroethane	11.384	83	78304	9.147	ug/L		99
93)	4-Ethyltoluene	11.432	105	427634	10.075	ug/L		98
94)	2-Chlorotoluene	11.468	91	296463M1	9.615	ug/L		
95)	1,3,5-Trimethylbenzene	11.526	105	331120	8.945	ug/L		96
96)	1,2,3-Trichloropropane	11.521	75	67980	9.934	ug/L		86
97)	trans-1,4-Dichloro-2-b...	11.573	53	24156	9.862	ug/L		93
98)	4-Chlorotoluene	11.652	91	306120	9.505	ug/L		92
99)	tert-Butylbenzene	11.867	119	294382	9.697	ug/L		93
102)	1,2,4-Trimethylbenzene	11.940	105	324327	9.039	ug/L		97
103)	sec-Butylbenzene	12.056	105	423338	9.728	ug/L		93
104)	p-Isopropyltoluene	12.208	119	358561	9.411	ug/L		96
105)	1,3-Dichlorobenzene	12.276	146	200705	9.671	ug/L		97
106)	1,4-Dichlorobenzene	12.365	146	203708	9.628	ug/L		98
107)	p-Diethylbenzene	12.580	119	200476	8.811	ug/L		95
108)	n-Butylbenzene	12.638	91	299176	9.457	ug/L	#	97
109)	1,2-Dichlorobenzene	12.790	146	195972	9.780	ug/L		97
110)	1,2,4,5-Tetramethylben...	13.372	119	299338	8.967	ug/L		95
111)	1,2-Dibromo-3-chloropr...	13.566	155	14420	9.726	ug/L		99
112)	1,3,5-Trichlorobenzene	13.597	180	127828	8.659	ug/L		95
113)	Hexachlorobutadiene	14.174	225	43057	8.826	ug/L		99
114)	1,2,4-Trichlorobenzene	14.195	180	127548	9.453	ug/L		98
115)	Naphthalene	14.483	128	319462	10.260	ug/L		100
116)	1,2,3-Trichlorobenzene	14.656	180	125513	9.761	ug/L		99

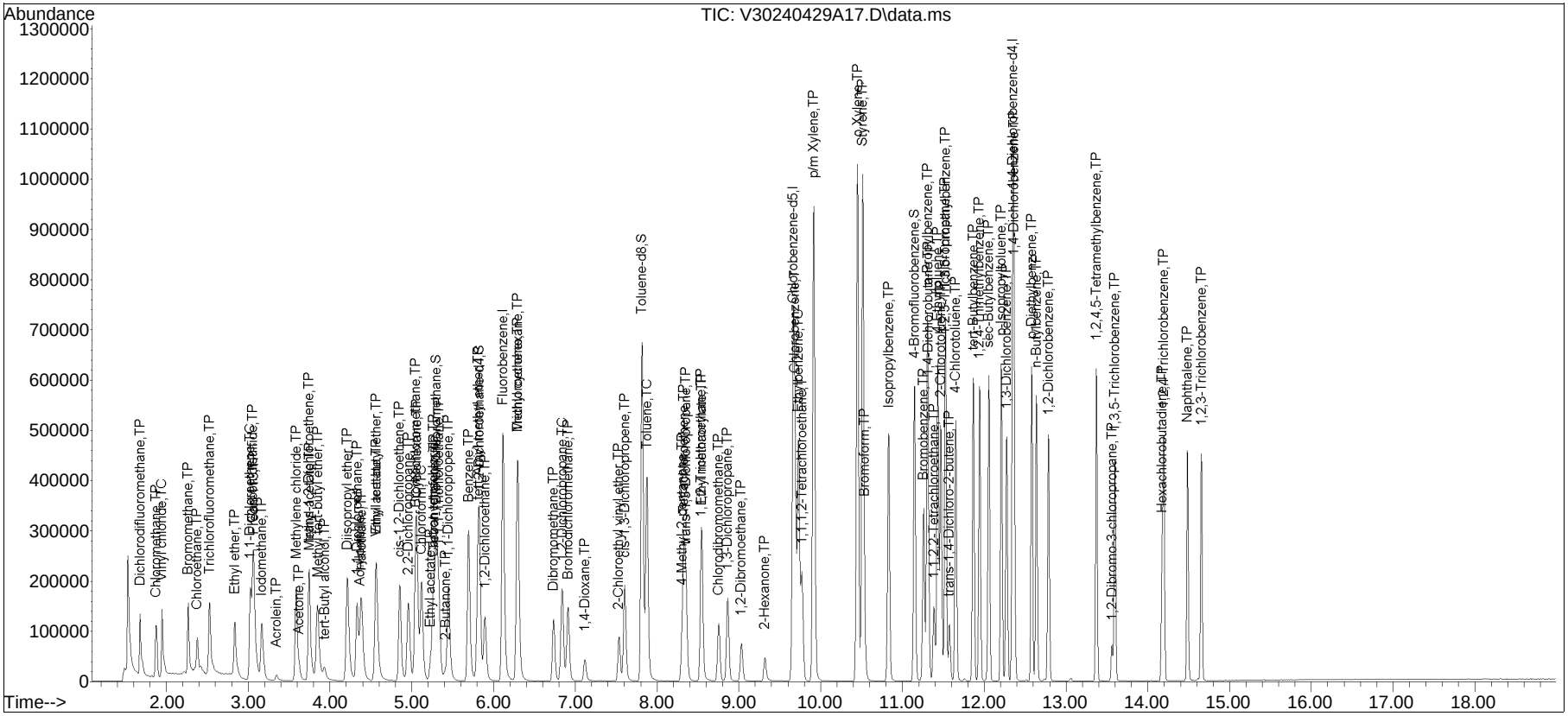
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240429ICAL\
Data File : V30240429A17.D
Acq On : 29 Apr 2024 10:30 pm
Operator : VOA130:PID
Sample : C8260STD10PPB
Misc : WG1915725,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 01 12:12:45 2024
Quant Method : K:\VOA130\2024\240429ICAL\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

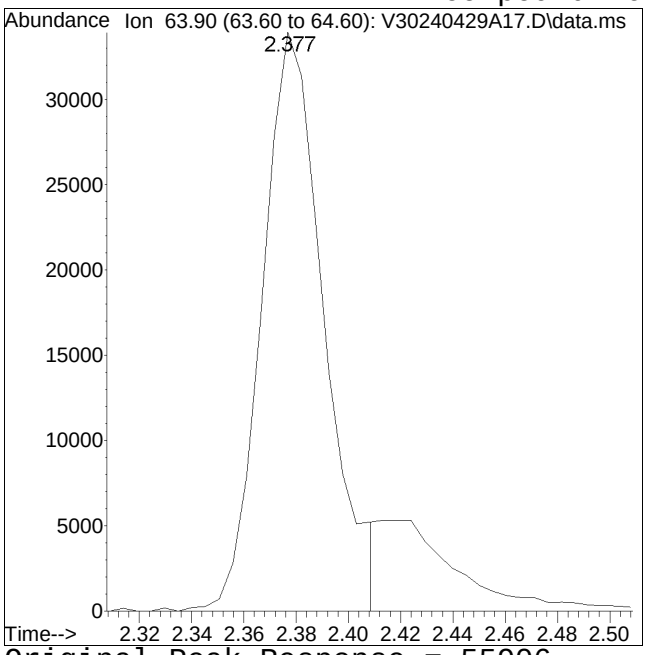
Sub List : 8260-Curve - Megamix plus DioxV30240429A08.D•

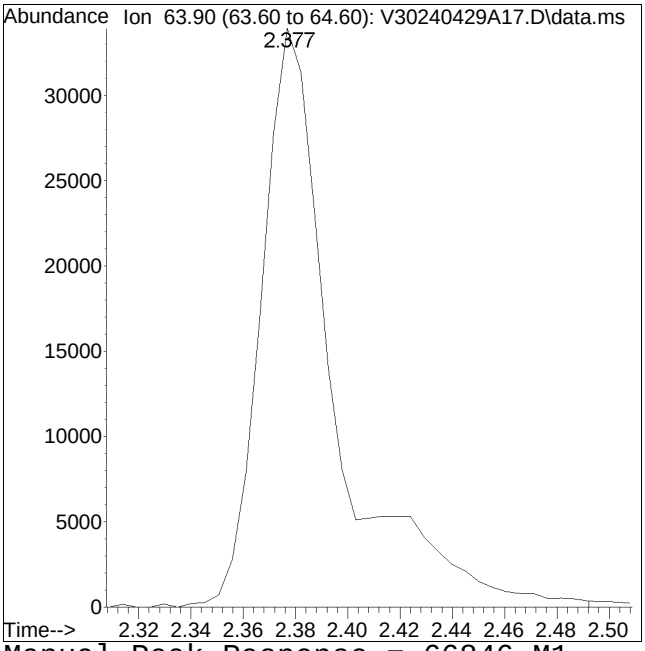


Manual Integration Report

Data Path : K:\VOA130\2024\240429ICAL\QMethod : V130_240429A_8260D.m
Data File : V30240429A17.D Operator : VOA130:PID
Date Inj'd : 4/29/2024 10:30 pm Instrument : VOA130
Sample : C8260STD10PPB Quant Date : 5/1/2024 12:12 pm

Compound #6: Chloroethane



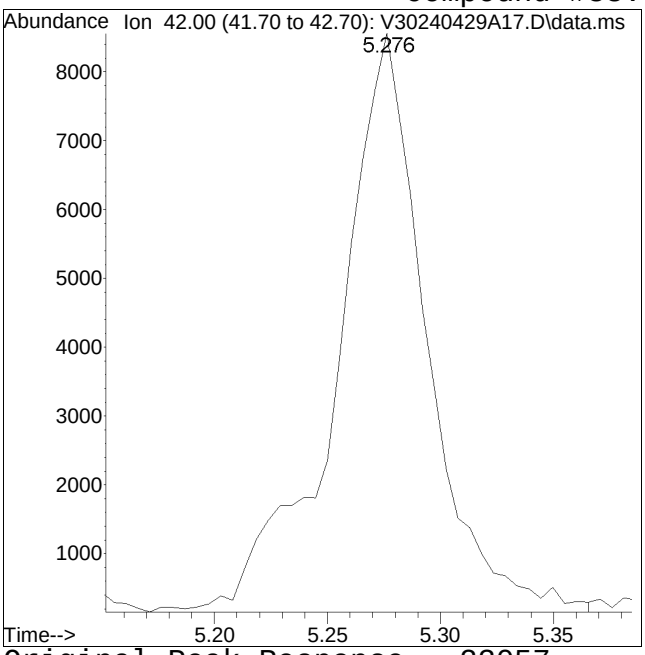


Original Peak Response = 55906 Manual Peak Response = 66846 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

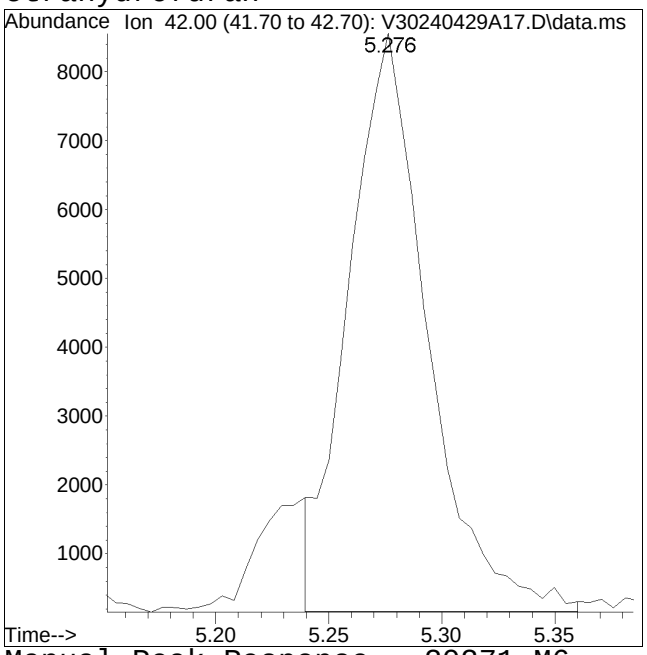
Manual Integration Report

Data Path : K:\VOA130\2024\240429ICAL\QMethod : V130_240429A_8260D.m
Data File : V30240429A17.D Operator : VOA130:PID
Date Inj'd : 4/29/2024 10:30 pm Instrument : VOA130
Sample : C8260STD10PPB Quant Date : 5/1/2024 12:12 pm

Compound #38: Tetrahydrofuran



Original Peak Response = 23057



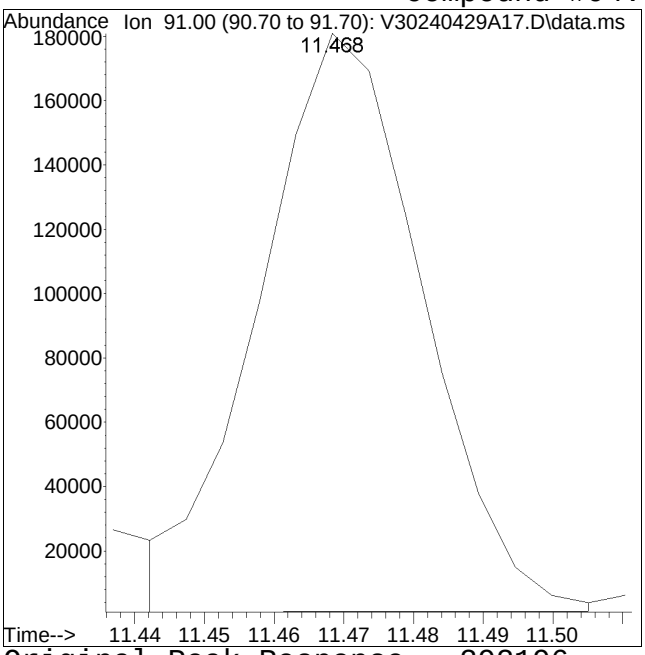
Manual Peak Response = 20271 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

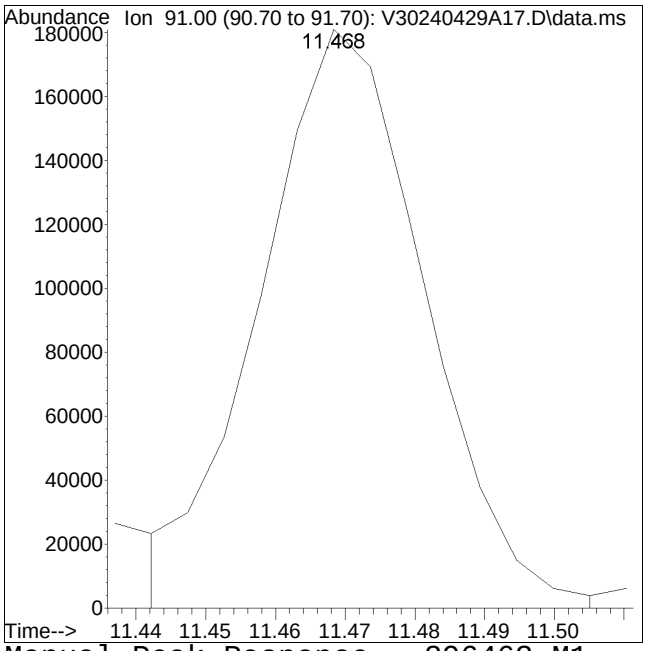
Manual Integration Report

Data Path : K:\VOA130\2024\240429ICAL\QMethod : V130_240429A_8260D.m
Data File : V30240429A17.D Operator : VOA130:PID
Date Inj'd : 4/29/2024 10:30 pm Instrument : VOA130
Sample : C8260STD10PPB Quant Date : 5/1/2024 12:12 pm

Compound #94: 2-Chlorotoluene



Original Peak Response = 292196



Manual Peak Response = 296463 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Evaluate Relative Error Report VOA130

Method Path : K:\VOA130\2024\240429ICAL\
Method File : V130_240429A_8260D.m
Title : VOLATILES BY GC/MS
Last Update : Wed May 01 12:12:17 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
73 TP	Chlorodibromomethane	Q	ug/L	10.0	8.878	-11.2	0.50	0.586	17.2

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
73 TP	Chlorodibromomethane	Quadratic	0.999170	0.003641	0.201795	-0.00475316

Continuing Calibration

Calibration Verification Summary
Form 7
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: VOA130	**Calibration Date**	: 06/05/24 06:45		
Lab File ID	: V30240605A01	**Init. Calib. Date(s)**	: 04/29/24	04/29/24	
Sample No	: WG1930005-2	**Init. Calib. Times**	: 17:24	20:40	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	91	0
Dichlorodifluoromethane	0.186	0.203	-	-9.1	20	100	0
Chloromethane	0.189	0.242	-	-28*	20	121	0
Vinyl chloride	0.2	0.232	-	-16	20	105	0
Bromomethane	0.113	0.1	-	11.5	20	81	0
Chloroethane	0.124	0.141	-	-13.7	20	109	0
Trichlorofluoromethane	0.233	0.291	-	-24.9*	20	114	0
Ethyl ether	0.085	0.077	-	9.4	20	83	0
1,1-Dichloroethene	0.165	0.164	-	0.6	20	93	0
Carbon disulfide	0.448	0.532	-	-18.8	20	111	0
Freon-113	0.163	0.17	-	-4.3	20	96	0
Acrolein	0.018	0.024	-	-33.3*	20	112	0
Methylene chloride	0.19	0.207	-	-8.9	20	101	0
Acetone	0.039	0.038	-	2.6	20	85	0
trans-1,2-Dichloroethene	0.177	0.185	-	-4.5	20	96	0
Methyl acetate	0.085	0.088	-	-3.5	20	93	0
Methyl tert-butyl ether	0.395	0.336	-	14.9	20	80	0
tert-Butyl alcohol	0.01175	0.00951*	-	19.1	20	72	0
Diisopropyl ether	0.469	0.525	-	-11.9	20	109	0
1,1-Dichloroethane	0.332	0.403	-	-21.4*	20	108	0
Halothane	0.135	0.126	-	6.7	20	85	-.01
Acrylonitrile	0.045	0.045	-	0	20	91	0
Ethyl tert-butyl ether	0.45	0.422	-	6.2	20	92	0
Vinyl acetate	0.254	0.304	-	-19.7	20	115	0
cis-1,2-Dichloroethene	0.205	0.205	-	0	20	89	0
2,2-Dichloropropane	0.267	0.305	-	-14.2	20	102	0
Bromochloromethane	0.093	0.089*	-	4.3	20	84	0
Cyclohexane	0.288	0.323	-	-12.2	20	107	0
Chloroform	0.321	0.387	-	-20.6*	20	109	0
Ethyl acetate	0.108	0.107	-	0.9	20	93	0
Carbon tetrachloride	0.216	0.239	-	-10.6	20	102	0
Tetrahydrofuran	0.034	0.037	-	-8.8	20	96	0
Dibromofluoromethane	0.287	0.285	-	0.7	20	88	0
1,1,1-Trichloroethane	0.267	0.294	-	-10.1	20	101	0
2-Butanone	0.05	0.051	-	-2	20	100	0
1,1-Dichloropropene	0.223	0.234	-	-4.9	20	100	0
Benzene	0.645	0.72	-	-11.6	20	104	0
tert-Amyl methyl ether	0.399	0.331	-	17	20	81	0
1,2-Dichloroethane-d4	0.307	0.344	-	-12.1	20	95	0
1,2-Dichloroethane	0.224	0.242	-	-8	20	97	0
Methyl cyclohexane	0.265	0.262	-	1.1	20	99	0
Trichloroethene	0.178	0.17*	-	4.5	20	93	0
Dibromomethane	0.103	0.101	-	1.9	20	88	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: VOA130	**Calibration Date**	: 06/05/24 06:45		
Lab File ID	: V30240605A01	**Init. Calib. Date(s)**	: 04/29/24	04/29/24	
Sample No	: WG1930005-2	**Init. Calib. Times**	: 17:24	20:40	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.171	0.187	-	-9.4	20	102	0
Bromodichloromethane	0.235	0.246*	-	-4.7	20	97	0
1,4-Dioxane	0.00144	0.00116*	-	19.4	20	72	0
cis-1,3-Dichloropropene	0.264	0.255*	-	3.4	20	92	0
Chlorobenzene-d5	1	1	-	0	20	84	0
Toluene-d8	1.311	1.341	-	-2.3	20	86	0
Toluene	0.546	0.586	-	-7.3	20	93	0
4-Methyl-2-pentanone	0.054	0.044	-	18.5	20	70	0
Tetrachloroethene	0.224	0.211	-	5.8	20	86	0
trans-1,3-Dichloropropene	0.297	0.29*	-	2.4	20	89	0
Ethyl methacrylate	0.22	0.172	-	21.8*	20	67	0
1,1,2-Trichloroethane	0.147	0.142*	-	3.4	20	88	0
Chlorodibromomethane	10	9.301	-	7	20	88	0
1,3-Dichloropropane	0.3	0.309	-	-3	20	92	0
1,2-Dibromoethane	0.172	0.151*	-	12.2	20	78	0
2-Hexanone	0.093	0.076	-	18.3	20	68	0
Chlorobenzene	0.593	0.605	-	-2	20	88	0
Ethylbenzene	1.021	1.137	-	-11.4	20	95	0
1,1,1,2-Tetrachloroethane	0.197	0.185	-	6.1	20	89	0
p/m Xylene	0.411	0.437	-	-6.3	20	91	0
o Xylene	0.4	0.414	-	-3.5	20	87	0
Styrene	0.656	0.693	-	-5.6	20	88	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	84	0
Bromoform	0.212	0.182	-	14.2	20	82	0
Isopropylbenzene	1.78	1.941	-	-9	20	93	0
4-Bromofluorobenzene	0.908	0.905	-	0.3	20	84	0
Bromobenzene	0.464	0.447	-	3.7	20	84	0
n-Propylbenzene	2.123	2.455	-	-15.6	20	99	0
1,4-Dichlorobutane	0.47	0.501	-	-6.6	20	92	0
1,1,2,2-Tetrachloroethane	0.365	0.358	-	1.9	20	86	0
4-Ethyltoluene	1.812	1.915	-	-5.7	20	90	0
2-Chlorotoluene	1.316	1.495	-	-13.6	20	97	0
1,3,5-Trimethylbenzene	1.58	1.648	-	-4.3	20	90	0
1,2,3-Trichloropropane	0.292	0.286	-	2.1	20	85	0
trans-1,4-Dichloro-2-buten	0.105	0.095	-	9.5	20	82	0
4-Chlorotoluene	1.375	1.503	-	-9.3	20	93	0
tert-Butylbenzene	1.296	1.383	-	-6.7	20	93	0
1,2,4-Trimethylbenzene	1.532	1.616	-	-5.5	20	92	0
sec-Butylbenzene	1.858	2.103	-	-13.2	20	98	0
p-Isopropyltoluene	1.626	1.729	-	-6.3	20	91	0
1,3-Dichlorobenzene	0.886	0.911	-	-2.8	20	89	0
1,4-Dichlorobenzene	0.903	0.921	-	-2	20	88	0
p-Diethylbenzene	0.971	0.968	-	0.3	20	89	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Alpha Geoscience		**Lab Number**	: L2430219	
Project Name	: HUNTINGTON READY MIXED		**Project Number**	: 20116	
Instrument ID	: VOA130		**Calibration Date**	: 06/05/24 06:45	
Lab File ID	: V30240605A01		**Init. Calib. Date(s)**	: 04/29/24	04/29/24
Sample No	: WG1930005-2		**Init. Calib. Times**	: 17:24	20:40
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
n-Butylbenzene	1.35	1.594	-	-18.1	20	105	0
1,2-Dichlorobenzene	0.855	0.851	-	0.5	20	85	0
1,2,4,5-Tetramethylbenzene	1.425	1.497	-	-5.1	20	98	0
1,2-Dibromo-3-chloropropan	0.063	0.051	-	19	20	71	0
1,3,5-Trichlorobenzene	0.63	0.641	-	-1.7	20	94	0
Hexachlorobutadiene	0.208	0.216	-	-3.8	20	96	0
1,2,4-Trichlorobenzene	0.576	0.561	-	2.6	20	88	0
Naphthalene	1.329	1.165	-	12.3	20	75	0
1,2,3-Trichlorobenzene	0.549	0.521	-	5.1	20	83	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A01.D
Acq On : 05 Jun 2024 06:45 am
Operator : VOA130:PID
Sample : WG1930005-2
Misc : WG1930005,ICAL21085
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 07:08:33 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	91	0.00
2	TP	Dichlorodifluoromethane	0.186	0.203	-9.1	100	0.00
3	TP	Chloromethane	0.189	0.242	-28.0#	121	0.00
4	TC	Vinyl chloride	0.200	0.232	-16.0	105	0.00
5	TP	Bromomethane	0.113	0.100	11.5	81	0.00
6	TP	Chloroethane	0.124	0.141	-13.7	109	0.00
7	TP	Trichlorofluoromethane	0.233	0.291	-24.9#	114	0.00
8	TP	Ethyl ether	0.085	0.077	9.4	83	0.00
10	TC	1,1-Dichloroethene	0.165	0.164	0.6	93	0.00
11	TP	Carbon disulfide	0.448	0.532	-18.8	111	0.00
12	TP	Freon-113	0.163	0.170	-4.3	96	0.00
14	TP	Acrolein	0.018	0.024	-33.3#	112	0.00
15	TP	Methylene chloride	0.190	0.207	-8.9	101	0.00
17	TP	Acetone	0.039	0.038	2.6	85	0.00
18	TP	trans-1,2-Dichloroethene	0.177	0.185	-4.5	96	0.00
19	TP	Methyl acetate	0.085	0.088	-3.5	93	0.00
21	TP	Methyl tert-butyl ether	0.395	0.336	14.9	80	0.00
22	TP	tert-Butyl alcohol	0.01175	0.00951#	19.1	72	0.00
24	TP	Diisopropyl ether	0.469	0.525	-11.9	109	0.00
25	TP	1,1-Dichloroethane	0.332	0.403	-21.4#	108	0.00
26	TP	Halothane	0.135	0.126	6.7	85	-0.01
27	TP	Acrylonitrile	0.045	0.045	0.0	91	0.00
28	TP	Ethyl tert-butyl ether	0.450	0.422	6.2	92	0.00
29	TP	Vinyl acetate	0.254	0.304	-19.7	115	0.00
30	TP	cis-1,2-Dichloroethene	0.205	0.205	0.0	89	0.00
31	TP	2,2-Dichloropropane	0.267	0.305	-14.2	102	0.00
33	TP	Bromochloromethane	0.093	0.089#	4.3	84	0.00
34	TP	Cyclohexane	0.288	0.323	-12.2	107	0.00
35	TC	Chloroform	0.321	0.387	-20.6#	109	0.00
36	TP	Ethyl acetate	0.108	0.107	0.9	93	0.00
37	TP	Carbon tetrachloride	0.216	0.239	-10.6	102	0.00
38	TP	Tetrahydrofuran	0.034	0.037	-8.8	96	0.00
39	S	Dibromofluoromethane	0.287	0.285	0.7	88	0.00
40	TP	1,1,1-Trichloroethane	0.267	0.294	-10.1	101	0.00
42	TP	2-Butanone	0.050	0.051	-2.0	100	0.00
43	TP	1,1-Dichloropropene	0.223	0.234	-4.9	100	0.00
45	TP	Benzene	0.645	0.720	-11.6	104	0.00
46	TP	tert-Amyl methyl ether	0.399	0.331	17.0	81	0.00
47	S	1,2-Dichloroethane-d4	0.307	0.344	-12.1	95	0.00

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A01.D
Acq On : 05 Jun 2024 06:45 am
Operator : VOA130:PID
Sample : WG1930005-2
Misc : WG1930005,ICAL21085
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 07:08:33 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48	TP	1,2-Dichloroethane	0.224	0.242	-8.0	97	0.00
51	TP	Methyl cyclohexane	0.265	0.262	1.1	99	0.00
52	TP	Trichloroethene	0.178	0.170#	4.5	93	0.00
54	TP	Dibromomethane	0.103	0.101	1.9	88	0.00
55	TC	1,2-Dichloropropane	0.171	0.187	-9.4	102	0.00
58	TP	Bromodichloromethane	0.235	0.246#	-4.7	97	0.00
61	TP	1,4-Dioxane	0.00144	0.00116#	19.4	72	0.00
62	TP	cis-1,3-Dichloropropene	0.264	0.255#	3.4	92	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	84	0.00
64	S	Toluene-d8	1.311	1.341	-2.3	86	0.00
65	TC	Toluene	0.546	0.586	-7.3	93	0.00
66	TP	4-Methyl-2-pentanone	0.054	0.044	18.5	70	0.00
67	TP	Tetrachloroethene	0.224	0.211	5.8	86	0.00
69	TP	trans-1,3-Dichloropropene	0.297	0.290#	2.4	89	0.00
71	TP	Ethyl methacrylate	0.220	0.172	21.8#	67	0.00
72	TP	1,1,2-Trichloroethane	0.147	0.142#	3.4	88	0.00
73	TP	Chlorodibromomethane	* 10.000	9.301	7.0	88	0.00
74	TP	1,3-Dichloropropane	0.300	0.309	-3.0	92	0.00
75	TP	1,2-Dibromoethane	0.172	0.151#	12.2	78	0.00
77	TP	2-Hexanone	0.093	0.076	18.3	68	0.00
78	T	Chlorobenzene	0.593	0.605	-2.0	88	0.00
79	TC	Ethylbenzene	1.021	1.137	-11.4	95	0.00
80	T	1,1,1,2-Tetrachloroethane	0.197	0.185	6.1	89	0.00
81	TP	p/m Xylene	0.411	0.437	-6.3	91	0.00
82	TP	o Xylene	0.400	0.414	-3.5	87	0.00
83	TP	Styrene	0.656	0.693	-5.6	88	0.00
84	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	84	0.00
85	TP	Bromoform	0.212	0.182	14.2	82	0.00
87	TP	Isopropylbenzene	1.780	1.941	-9.0	93	0.00
88	S	4-Bromofluorobenzene	0.908	0.905	0.3	84	0.00
89	TP	Bromobenzene	0.464	0.447	3.7	84	0.00
90	TP	n-Propylbenzene	2.123	2.455	-15.6	99	0.00
91	TP	1,4-Dichlorobutane	0.470	0.501	-6.6	92	0.00
92	TP	1,1,2,2-Tetrachloroethane	0.365	0.358	1.9	86	0.00
93	TP	4-Ethyltoluene	1.812	1.915	-5.7	90	0.00
94	TP	2-Chlorotoluene	1.316	1.495	-13.6	97	0.00
95	TP	1,3,5-Trimethylbenzene	1.580	1.648	-4.3	90	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A01.D
Acq On : 05 Jun 2024 06:45 am
Operator : VOA130:PID
Sample : WG1930005-2
Misc : WG1930005,ICAL21085
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 07:08:33 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 TP	1,2,3-Trichloropropane	0.292	0.286	2.1	85	0.00
97 TP	trans-1,4-Dichloro-2-butene	0.105	0.095	9.5	82	0.00
98 TP	4-Chlorotoluene	1.375	1.503	-9.3	93	0.00
99 TP	tert-Butylbenzene	1.296	1.383	-6.7	93	0.00
102 TP	1,2,4-Trimethylbenzene	1.532	1.616	-5.5	92	0.00
103 TP	sec-Butylbenzene	1.858	2.103	-13.2	98	0.00
104 TP	p-Isopropyltoluene	1.626	1.729	-6.3	91	0.00
105 TP	1,3-Dichlorobenzene	0.886	0.911	-2.8	89	0.00
106 TP	1,4-Dichlorobenzene	0.903	0.921	-2.0	88	0.00
107 TP	p-Diethylbenzene	0.971	0.968	0.3	89	0.00
108 TP	n-Butylbenzene	1.350	1.594	-18.1	105	0.00
109 TP	1,2-Dichlorobenzene	0.855	0.851	0.5	85	0.00
110 TP	1,2,4,5-Tetramethylbenzene	1.425	1.497	-5.1	98	0.00
111 TP	1,2-Dibromo-3-chloropropane	0.063	0.051	19.0	71	0.00
112 TP	1,3,5-Trichlorobenzene	0.630	0.641	-1.7	94	0.00
113 TP	Hexachlorobutadiene	0.208	0.216	-3.8	96	0.00
114 TP	1,2,4-Trichlorobenzene	0.576	0.561	2.6	88	0.00
115 TP	Naphthalene	1.329	1.165	12.3	75	0.00
116 TP	1,2,3-Trichlorobenzene	0.549	0.521	5.1	83	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 9 CCC's out = 1

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A01.D
Acq On : 05 Jun 2024 06:45 am
Operator : VOA130:PID
Sample : WG1930005-2
Misc : WG1930005,ICAL21085
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 07:08:33 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.110	96	517502	10.000	ug/L	0.00
63) Chlorobenzene-d5	9.665	117	376477	10.000	ug/L	0.00
84) 1,4-Dichlorobenzene-d4	12.349	152	209535	10.000	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	5.292	113	147730	9.959	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.59%			
47) 1,2-Dichloroethane-d4	5.822	65	178072	11.215	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 112.15%			
64) Toluene-d8	7.814	98	504874	10.228	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.28%			
88) 4-Bromofluorobenzene	11.143	95	189588	9.969	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.69%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.680	85	105036	10.888	ug/L	97
3) Chloromethane	1.874	50	125240	12.776	ug/L	98
4) Vinyl chloride	1.947	62	119865	11.608	ug/L	100
5) Bromomethane	2.267	94	51854	8.888	ug/L	100
6) Chloroethane	2.377	64	73101M1	11.392	ug/L	
7) Trichlorofluoromethane	2.529	101	150801	12.482	ug/L	99
8) Ethyl ether	2.833	74	40006	9.093	ug/L	91
10) 1,1-Dichloroethene	3.027	96	84898	9.960	ug/L	88
11) Carbon disulfide	3.053	76	275219	11.858	ug/L	100
12) Freon-113	3.069	101	88128	10.466	ug/L	92
14) Acrolein	3.342	56	12363	13.205	ug/L	99
15) Methylene chloride	3.583	84	106927	10.888	ug/L	93
17) Acetone	3.620	43	19452	9.731	ug/L	92
18) trans-1,2-Dichloroethene	3.740	96	95710	10.465	ug/L	91
19) Methyl acetate	3.745	43	45507	10.311	ug/L #	91
21) Methyl tert-butyl ether	3.840	73	174061	8.519	ug/L	93
22) tert-Butyl alcohol	3.929	59	24599	40.457	ug/L #	80
24) Diisopropyl ether	4.207	45	271845	11.198	ug/L	97
25) 1,1-Dichloroethane	4.327	63	208459	12.117	ug/L	98
26) Halothane	4.375	117	65204	9.321	ug/L	98
27) Acrylonitrile	4.364	53	23187	9.952	ug/L	92
28) Ethyl tert-butyl ether	4.558	59	218522	9.375	ug/L	91
29) Vinyl acetate	4.563	43	157087	11.965	ug/L	97
30) cis-1,2-Dichloroethene	4.852	96	105915	9.994	ug/L	91
31) 2,2-Dichloropropane	4.957	77	157912	11.424	ug/L	87

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A01.D
Acq On : 05 Jun 2024 06:45 am
Operator : VOA130:PID
Sample : WG1930005-2
Misc : WG1930005,ICAL21085
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 07:08:33 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) Bromochloromethane	5.046	128	46283	9.574	ug/L	#	78
34) Cyclohexane	5.061	56	167105	11.221	ug/L		95
35) Chloroform	5.114	83	200358	12.058	ug/L		92
36) Ethyl acetate	5.229	43	55438	9.905	ug/L		98
37) Carbon tetrachloride	5.261	117	123489	11.025	ug/L		98
38) Tetrahydrofuran	5.276	42	19124M6	10.870	ug/L		
40) 1,1,1-Trichloroethane	5.324	97	152127	11.024	ug/L		95
42) 2-Butanone	5.408	43	26607M3	10.210	ug/L		
43) 1,1-Dichloropropene	5.444	75	121040	10.500	ug/L		98
45) Benzene	5.691	78	372735	11.167	ug/L		98
46) tert-Amyl methyl ether	5.806	73	171357	8.302	ug/L		93
48) 1,2-Dichloroethane	5.890	62	125146	10.781	ug/L	#	99
51) Methyl cyclohexane	6.294	83	135363	9.889	ug/L		92
52) Trichloroethene	6.294	95	87956	9.561	ug/L		96
54) Dibromomethane	6.729	93	52226	9.773	ug/L		96
55) 1,2-Dichloropropane	6.834	63	96919	10.980	ug/L		98
58) Bromodichloromethane	6.907	83	127357	10.452	ug/L		99
61) 1,4-Dioxane	7.112	88	30025	402.724	ug/L		94
62) cis-1,3-Dichloropropene	7.599	75	132036	9.658	ug/L	#	87
65) Toluene	7.872	92	220766	10.735	ug/L		100
66) 4-Methyl-2-pentanone	8.307	58	16530	8.128	ug/L		91
67) Tetrachloroethene	8.328	166	79570	9.435	ug/L		97
69) trans-1,3-Dichloropropene	8.349	75	109068	9.769	ug/L	#	83
71) Ethyl methacrylate	8.543	69	64862	7.838	ug/L	#	77
72) 1,1,2-Trichloroethane	8.538	83	53564	9.648	ug/L		99
73) Chlorodibromomethane	8.753	129	70054	9.301	ug/L		98
74) 1,3-Dichloropropane	8.863	76	116376	10.293	ug/L		98
75) 1,2-Dibromoethane	9.031	107	56675	8.769	ug/L		99
77) 2-Hexanone	9.319	43	28741	8.249	ug/L		99
78) Chlorobenzene	9.686	112	227917	10.203	ug/L	#	87
79) Ethylbenzene	9.728	91	428052	11.139	ug/L		100
80) 1,1,1,2-Tetrachloroethane	9.765	131	69699	9.400	ug/L		99
81) p/m Xylene	9.911	106	328743	21.270	ug/L		97
82) o Xylene	10.446	106	311348	20.696	ug/L		100
83) Styrene	10.514	104	521834	21.115	ug/L		97
85) Bromoform	10.535	173	38104	8.580	ug/L		97
87) Isopropylbenzene	10.829	105	406639	10.904	ug/L		99
89) Bromobenzene	11.259	156	93563	9.629	ug/L		99
90) n-Propylbenzene	11.306	91	514321	11.564	ug/L		98
91) 1,4-Dichlorobutane	11.311	55	104911	10.656	ug/L		99
92) 1,1,2,2-Tetrachloroethane	11.379	83	74927	9.785	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A01.D
Acq On : 05 Jun 2024 06:45 am
Operator : VOA130:PID
Sample : WG1930005-2
Misc : WG1930005,ICAL21085
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 07:08:33 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 4-Ethyltoluene	11.427	105	401297	10.570	ug/L	99
94) 2-Chlorotoluene	11.469	91	313164M1	11.355	ug/L	
95) 1,3,5-Trimethylbenzene	11.526	105	345237	10.426	ug/L	98
96) 1,2,3-Trichloropropane	11.521	75	59988	9.800	ug/L	90
97) trans-1,4-Dichloro-2-b...	11.573	53	19890	9.078	ug/L	93
98) 4-Chlorotoluene	11.652	91	315021	10.935	ug/L	96
99) tert-Butylbenzene	11.867	119	289826	10.673	ug/L	97
102) 1,2,4-Trimethylbenzene	11.940	105	338664	10.551	ug/L	98
103) sec-Butylbenzene	12.056	105	440555	11.317	ug/L	96
104) p-Isopropyltoluene	12.208	119	362235	10.629	ug/L	98
105) 1,3-Dichlorobenzene	12.271	146	190870	10.281	ug/L	99
106) 1,4-Dichlorobenzene	12.365	146	192937	10.195	ug/L	99
107) p-Diethylbenzene	12.580	119	202901	9.969	ug/L	98
108) n-Butylbenzene	12.638	91	333989	11.803	ug/L	98
109) 1,2-Dichlorobenzene	12.785	146	178306	9.948	ug/L	98
110) 1,2,4,5-Tetramethylben...	13.372	119	313649	10.504	ug/L	97
111) 1,2-Dibromo-3-chloropr...	13.566	155	10717	8.081	ug/L	95
112) 1,3,5-Trichlorobenzene	13.597	180	134394	10.178	ug/L	97
113) Hexachlorobutadiene	14.174	225	45291	10.379	ug/L	98
114) 1,2,4-Trichlorobenzene	14.195	180	117601	9.744	ug/L	98
115) Naphthalene	14.483	128	244143	8.766	ug/L	100
116) 1,2,3-Trichlorobenzene	14.656	180	109158	9.490	ug/L	97

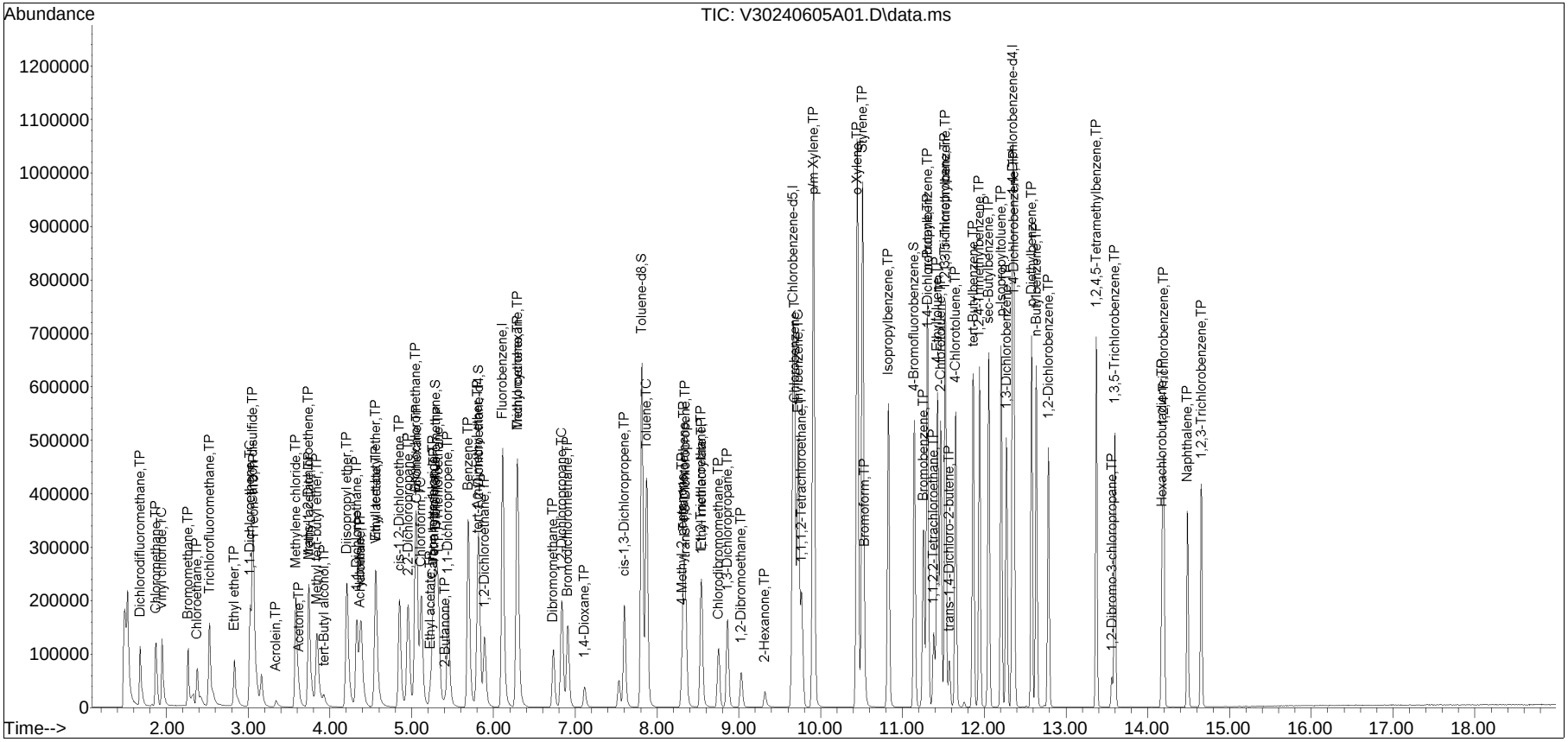
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A01.D
Acq On : 05 Jun 2024 06:45 am
Operator : VOA130:PID
Sample : WG1930005-2
Misc : WG1930005,ICAL21085
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 07:08:33 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

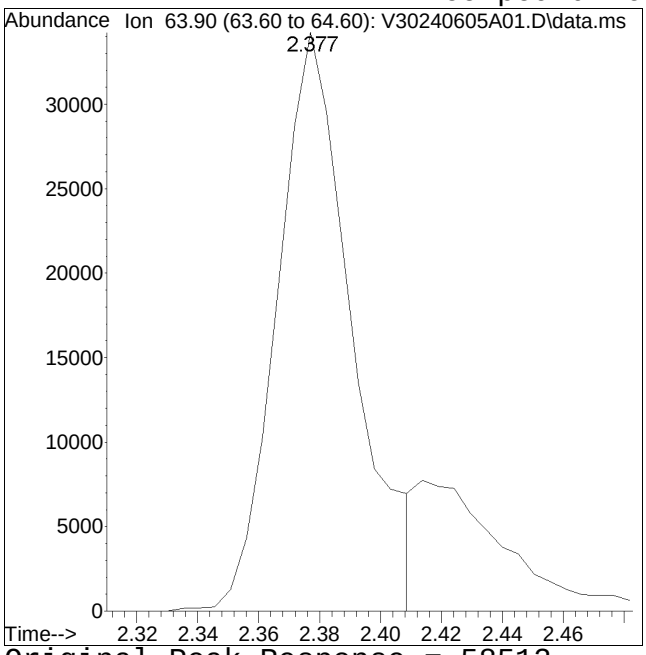
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

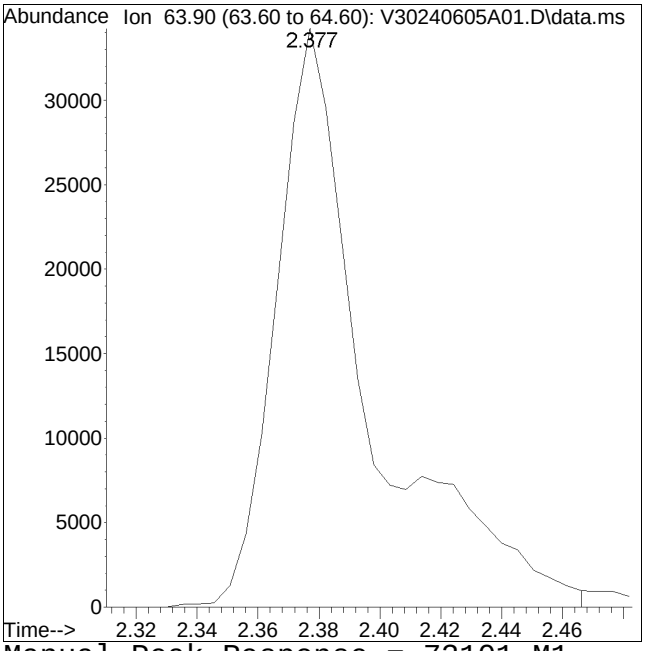


Manual Integration Report

Data Path	: K:\VOA130\2024\240605A\	QMethod	: V130_240429A_8260D.m
Data File	: V30240605A01.D	Operator	: VOA130:PID
Date Inj'd	: 6/5/2024 6:45 am	Instrument	: VOA130
Sample	: WG1930005-2	Quant Date	: 6/5/2024 7:07 am

Compound #6: Chloroethane





Original Peak Response = 58512 Manual Peak Response = 73101 M1

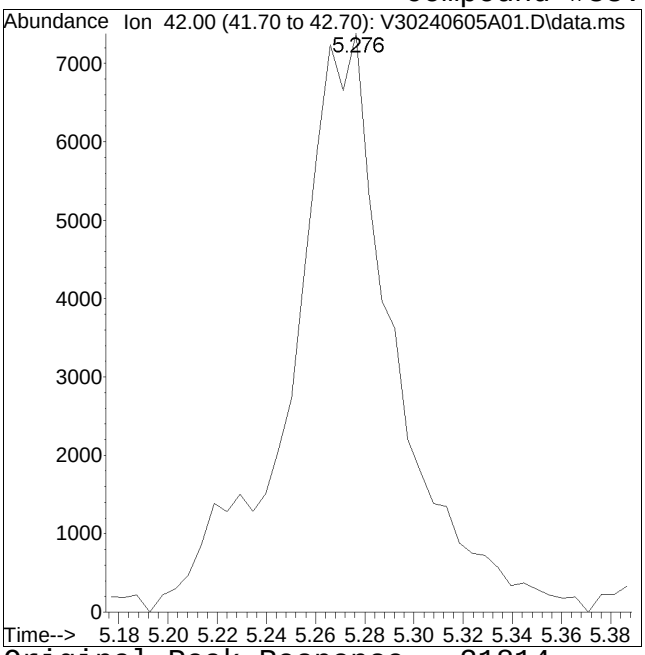
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

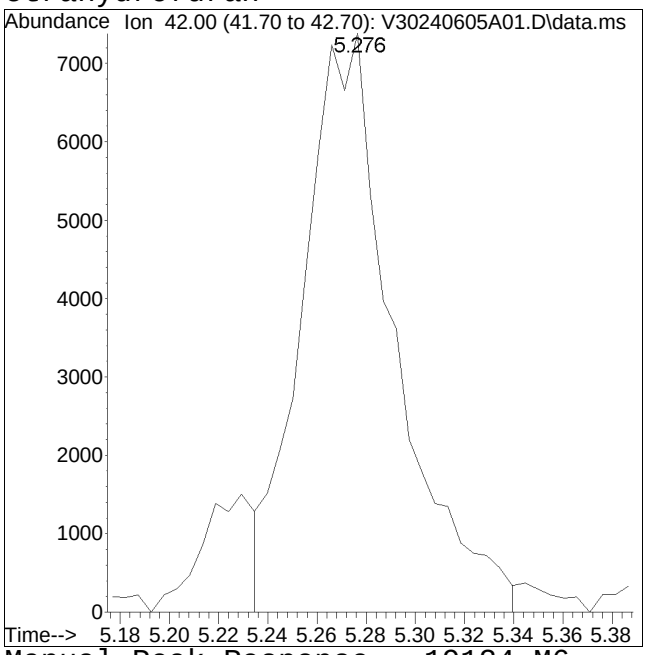
Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A01.D
Date Inj'd : 6/5/2024 6:45 am
Sample : WG1930005-2

QMethod : V130_240429A_8260D.m
Operator : VOA130:PID
Instrument : VOA130
Quant Date : 6/5/2024 7:07 am

Compound #38: Tetrahydrofuran



Original Peak Response = 21814



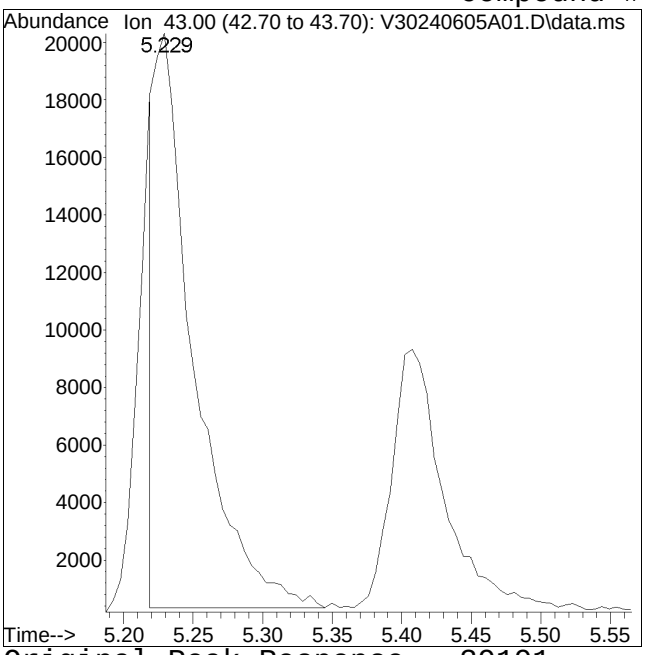
Manual Peak Response = 19124 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

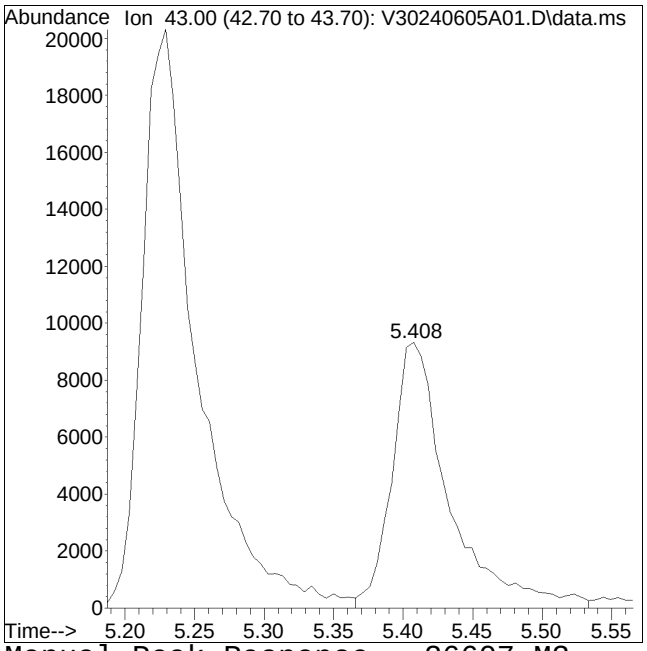
Manual Integration Report

Data Path	: K:\VOA130\2024\240605A\	QMethod	: V130_240429A_8260D.m
Data File	: V30240605A01.D	Operator	: VOA130:PID
Date Inj'd	: 6/5/2024 6:45 am	Instrument	: VOA130
Sample	: WG1930005-2	Quant Date	: 6/5/2024 7:07 am

Compound #42: 2-Butanone



Original Peak Response = 39191



Manual Peak Response = 26607 M3

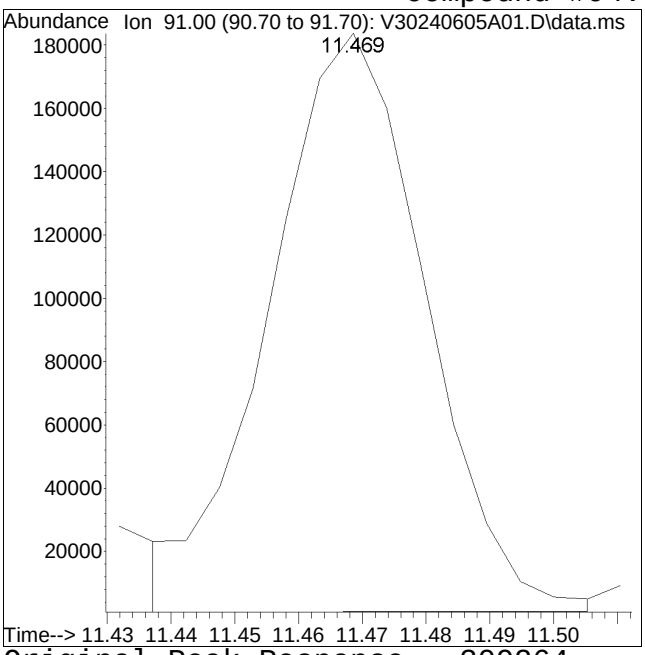
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

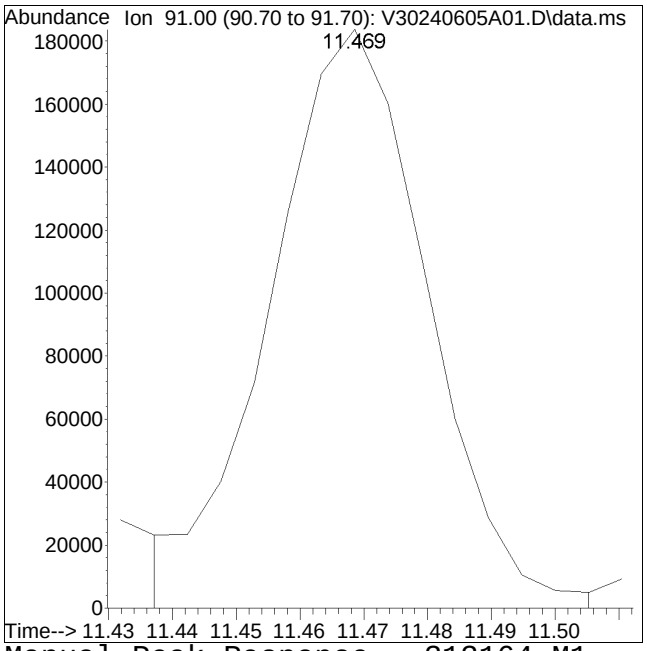
Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A01.D
Date Inj'd : 6/5/2024 6:45 am
Sample : WG1930005-2

QMethod : V130_240429A_8260D.m
Operator : VOA130:PID
Instrument : VOA130
Quant Date : 6/5/2024 7:07 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 309264



Manual Peak Response = 313164 M1

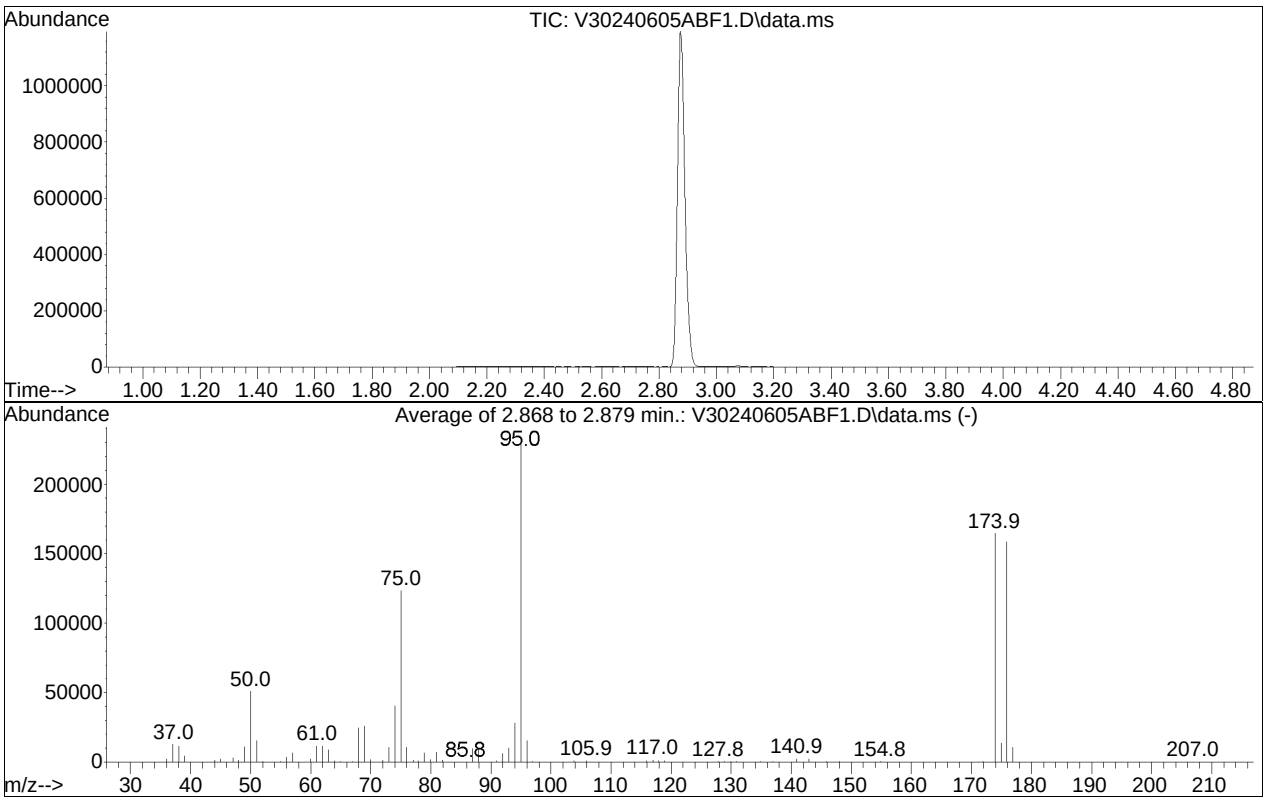
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

BFB

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605ABF1.D
Acq On : 05 Jun 2024 06:32 am
Operator : VOA130:PID
Sample : WG1930005-1
Misc : WG1930005
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Title : VOLATILES BY GC/MS
Last Update : Wed May 01 12:12:17 2024



AutoFind: Scans 149, 150, 151; Background Corrected with Scan 141

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.2	50995	PASS
75	95	30	60	53.7	123632	PASS
95	95	100	100	100.0	230016	PASS
96	95	5	9	6.8	15559	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	71.7	165035	PASS
175	174	5	9	8.2	13502	PASS
176	174	95	101	96.1	158611	PASS
177	176	5	9	6.8	10746	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A05.D
Acq On : 05 Jun 2024 08:13 am
Operator : VOA130:PID
Sample : WG1930005-5,31,10,10
Misc : WG1930005,ICAL21085
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 08:51:12 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240605A\V30240605A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.115	96	459119	10.000 ug/L	0.00
Standard Area 1 = 517502			Recovery =	88.72%	
63) Chlorobenzene-d5	9.665	117	361913	10.000 ug/L	0.00
Standard Area 1 = 376477			Recovery =	96.13%	
84) 1,4-Dichlorobenzene-d4	12.349	152	191060	10.000 ug/L	0.00
Standard Area 1 = 209535			Recovery =	91.18%	
System Monitoring Compounds					
39) Dibromofluoromethane	5.297	113	140815	10.700 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	107.00%	
47) 1,2-Dichloroethane-d4	5.822	65	163029	11.574 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	115.74%	
64) Toluene-d8	7.814	98	477718	10.067 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.67%	
88) 4-Bromofluorobenzene	11.143	95	180981	10.437 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	104.37%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.506	85	233	N.D.	
3) Chloromethane	1.873	50	695	0.080 ug/L #	70
4) Vinyl chloride	1.942	62	113	N.D.	
5) Bromomethane	2.267	94	540	0.104 ug/L	81
6) Chloroethane	2.335	64	221	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	3.022	96	52	N.D.	
11) Carbon disulfide	3.053	76	3193	0.155 ug/L #	83
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	3.583	84	1392	0.160 ug/L	86
17) Acetone	0.000		0	N.D. d	
18) trans-1,2-Dichloroethene	3.735	96	171	N.D.	
19) Methyl acetate	3.750	43	126	N.D.	
21) Methyl tert-butyl ether	0.000		0	N.D.	
25) 1,1-Dichloroethane	0.000		0	N.D.	
30) cis-1,2-Dichloroethene	4.846	96	110	N.D.	
33) Bromochloromethane	0.000		0	N.D.	
34) Cyclohexane	0.000		0	N.D.	
35) Chloroform	0.000		0	N.D.	
37) Carbon tetrachloride	0.000		0	N.D.	

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A05.D
Acq On : 05 Jun 2024 08:13 am
Operator : VOA130:PID
Sample : WG1930005-5,31,10,10
Misc : WG1930005,ICAL21085
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 08:51:12 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240605A\V30240605A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,1,1-Trichloroethane	0.000		0		N.D.	
42) 2-Butanone	0.000		0		N.D.	
45) Benzene	5.696	78	281		N.D.	
48) 1,2-Dichloroethane	0.000		0		N.D.	
51) Methyl cyclohexane	0.000		0		N.D.	
52) Trichloroethene	6.293	95	211		N.D.	
55) 1,2-Dichloropropane	0.000		0		N.D.	
58) Bromodichloromethane	0.000		0		N.D.	
61) 1,4-Dioxane	0.000		0		N.D.	
62) cis-1,3-Dichloropropene	0.000		0		N.D.	
65) Toluene	7.866	92	55		N.D.	
66) 4-Methyl-2-pentanone	0.000		0		N.D.	
67) Tetrachloroethene	0.000		0		N.D.	
69) trans-1,3-Dichloropropene	0.000		0		N.D.	
72) 1,1,2-Trichloroethane	0.000		0		N.D.	
73) Chlorodibromomethane	0.000		0		N.D.	
75) 1,2-Dibromoethane	0.000		0		N.D.	
77) 2-Hexanone	0.000		0		N.D.	
78) Chlorobenzene	9.691	112	354		N.D.	
79) Ethylbenzene	9.733	91	217		N.D.	
81) p/m Xylene	9.927	106	48		N.D.	
82) o Xylene	0.000		0		N.D.	
83) Styrene	10.540	104	58		N.D.	
85) Bromoform	0.000		0		N.D.	
87) Isopropylbenzene	0.000		0		N.D.	
92) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
105) 1,3-Dichlorobenzene	12.286	146	271		N.D.	
106) 1,4-Dichlorobenzene	12.360	146	656		N.D.	
109) 1,2-Dichlorobenzene	0.000		0		N.D.	
111) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
114) 1,2,4-Trichlorobenzene	14.211	180	146		N.D.	
116) 1,2,3-Trichlorobenzene	14.667	180	123		N.D.	

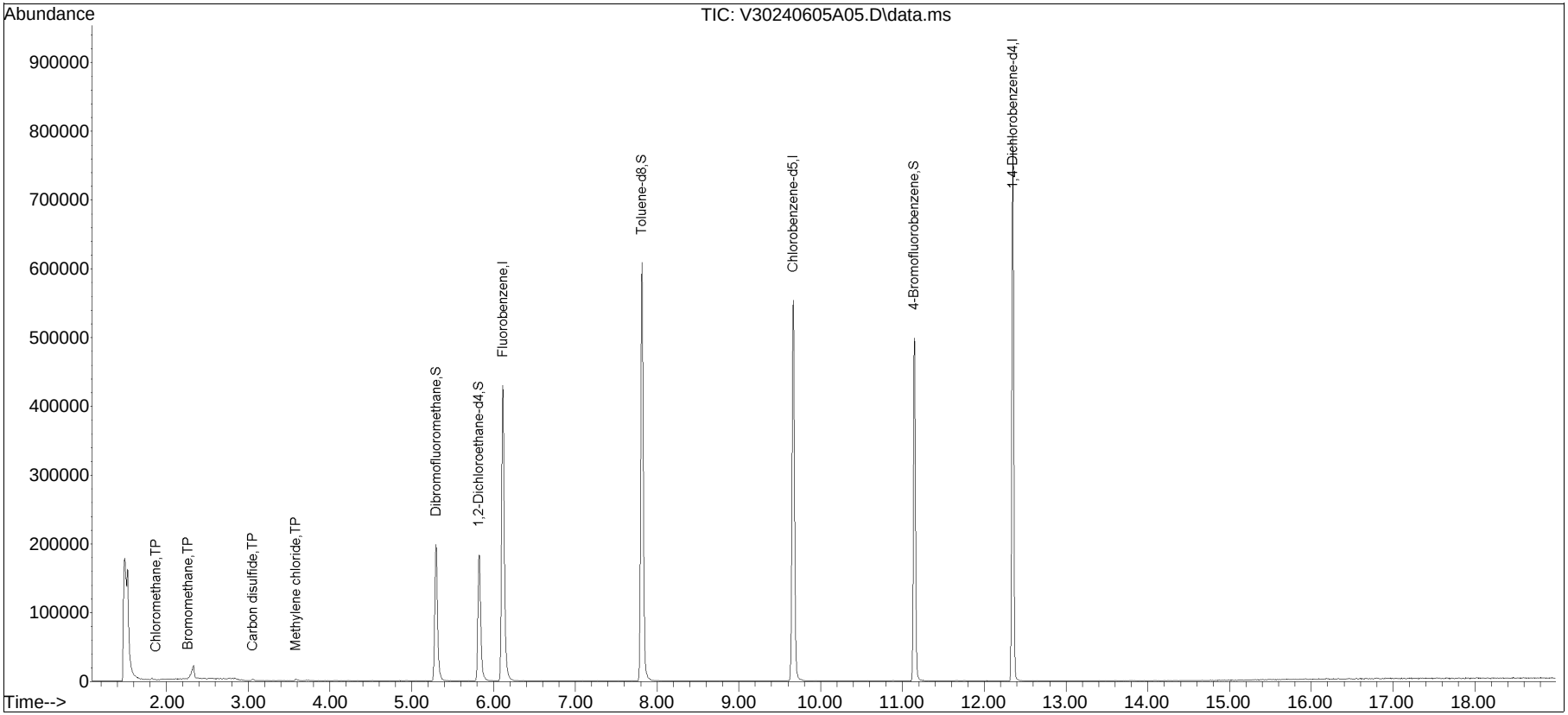
(#) = qualifier out of range (m) = manual integration (+) = signals summed

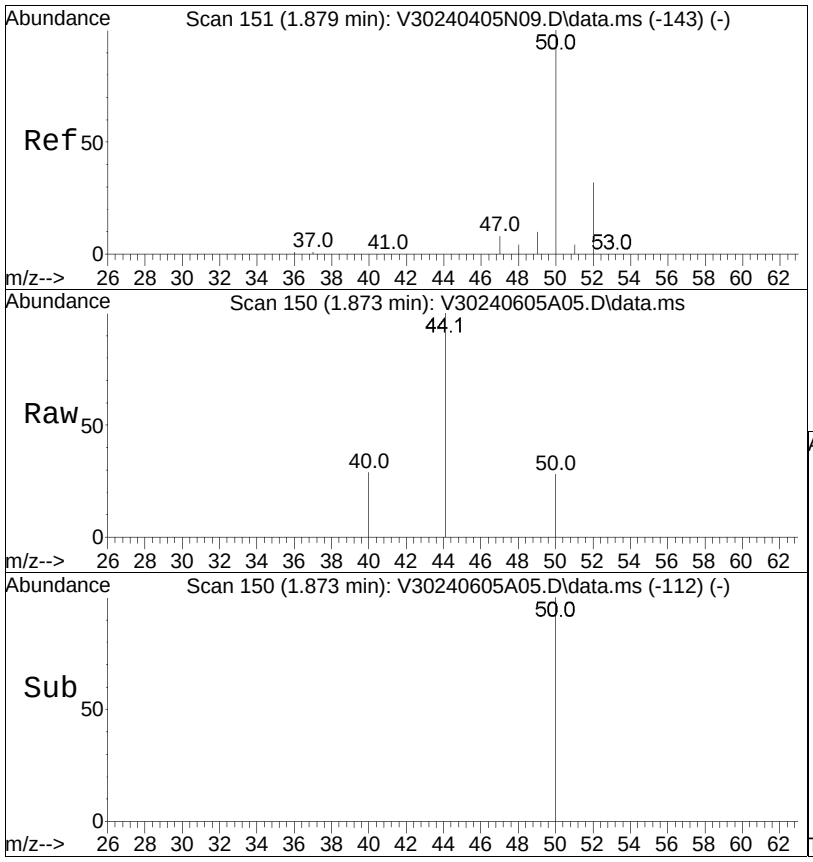
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A05.D
Acq On : 05 Jun 2024 08:13 am
Operator : VOA130:PID
Sample : WG1930005-5,31,10,10
Misc : WG1930005,ICAL21085
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 08:51:12 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

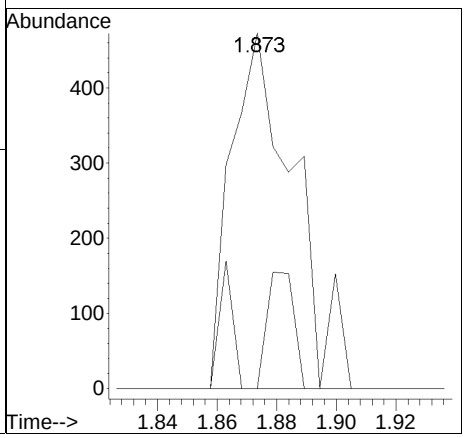


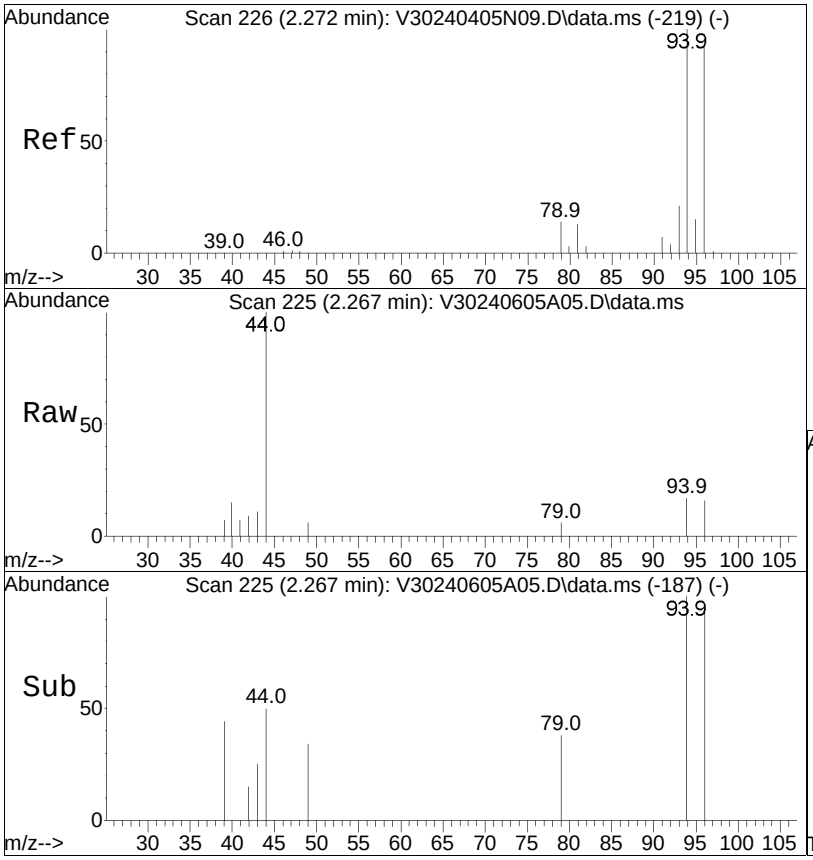


#3
Chloromethane
Concen: 0.08 ug/L
RT: 1.873 min Scan# 150
Delta R.T. -0.001 min
Lab File: V30240605A05.D
Acq: 05 Jun 2024 08:13 am

Tgt Ion: 50 Resp: 695

Ion	Ratio	Lower	Upper
50	100		
52	14.0	25.1	37.7#
47	0.0	6.5	9.7#

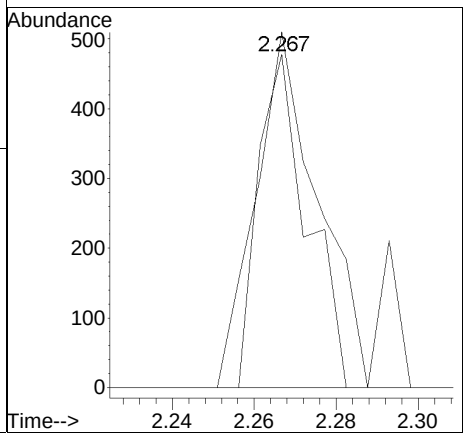


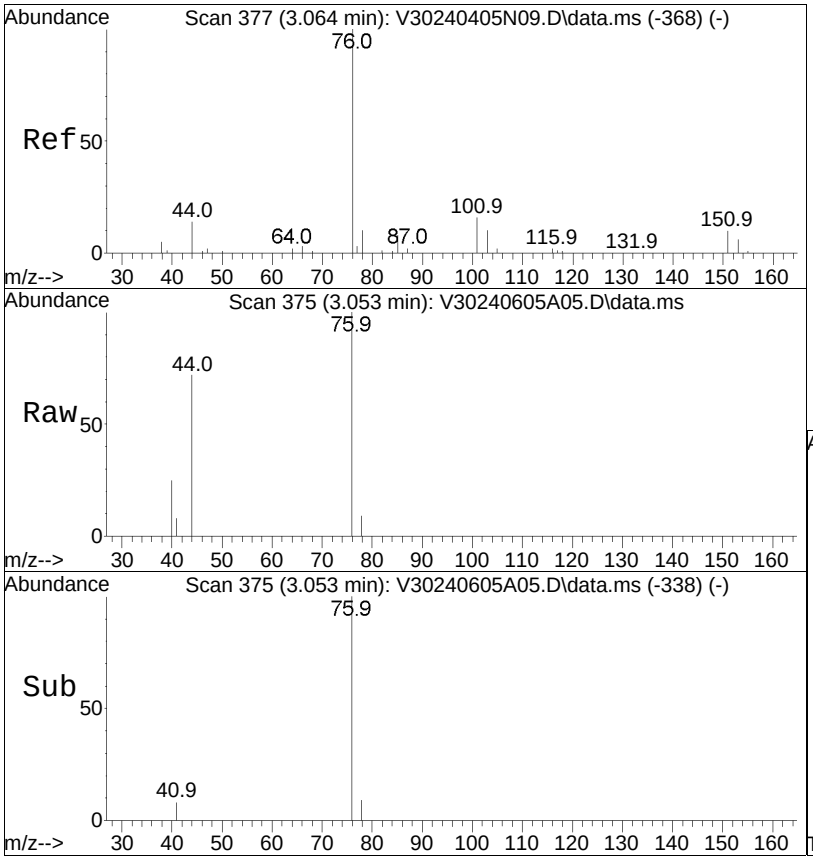


#5
Bromomethane
Concen: 0.10 ug/L
RT: 2.267 min Scan# 225
Delta R.T. -0.000 min
Lab File: V30240605A05.D
Acq: 05 Jun 2024 08:13 am

Tgt Ion: 94 Resp: 540

Ion	Ratio	Lower	Upper
94	100		
96	73.9	73.7	110.5

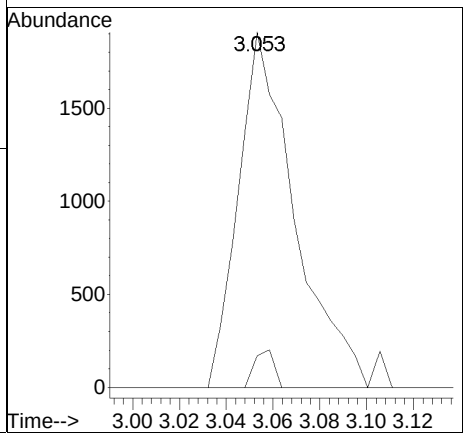


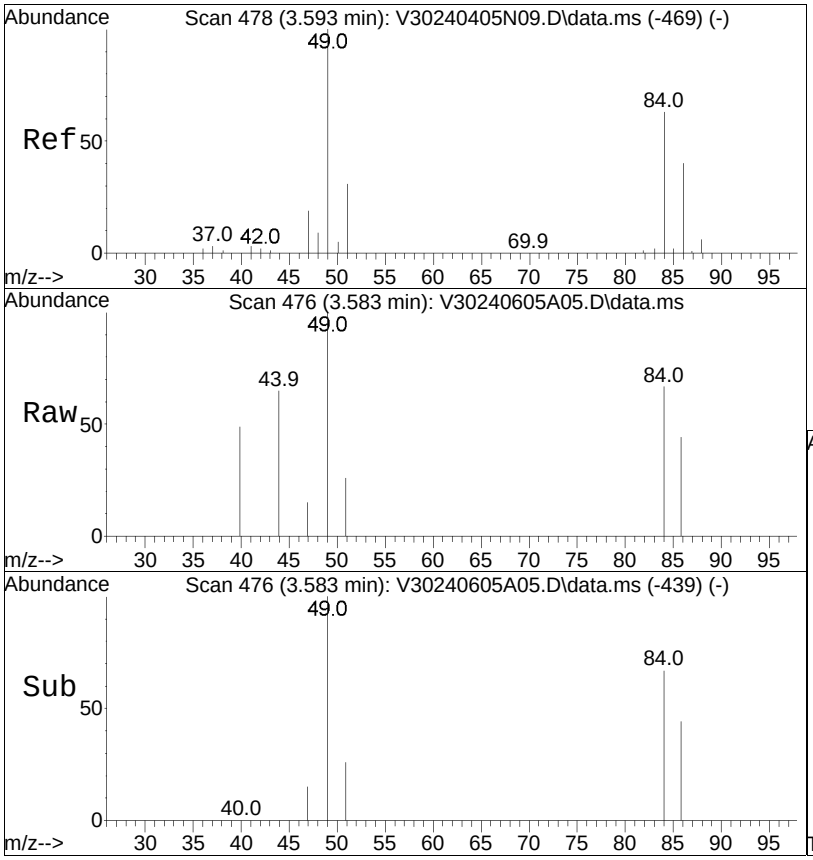


#11
Carbon disulfide
Concen: 0.16 ug/L
RT: 3.053 min Scan# 375
Delta R.T. -0.005 min
Lab File: V30240605A05.D
Acq: 05 Jun 2024 08:13 am

Tgt Ion: 76 Resp: 3193

Ion	Ratio	Lower	Upper
76	100		
78	3.7	6.4	13.4#

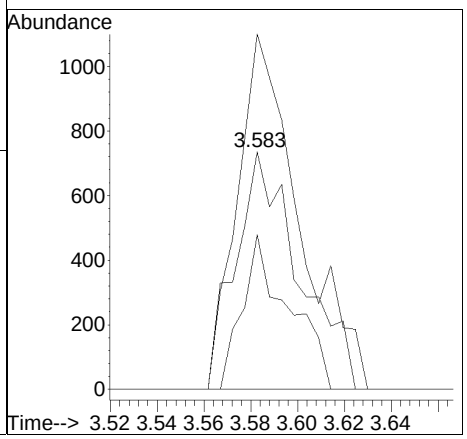




#15
Methylene chloride
Concen: 0.16 ug/L
RT: 3.583 min Scan# 476
Delta R.T. -0.005 min
Lab File: V30240605A05.D
Acq: 05 Jun 2024 08:13 am

Tgt Ion: 84 Resp: 1392

Ion	Ratio	Lower	Upper
84	100		
86	47.6	41.7	86.5
49	145.8	103.9	215.9



Manual Integration Report

Data Path	: K:\VOA130\2024\240605A\	QMethod	: V130_240429A_8260D.m
Data File	: V30240605A05.D	Operator	: VOA130:PID
Date Inj'd	: 6/5/2024 8:13 am	Instrument	: VOA130
Sample	: WG1930005-5,31,10,10	Quant Date	: 6/5/2024 8:50 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A01.D
Acq On : 05 Jun 2024 06:45 am
Operator : VOA130:PID
Sample : WG1930005-3,31,10,10
Misc : WG1930005,ICAL21085
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 07:08:33 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.110	96	517502	10.000	ug/L	0.00
63) Chlorobenzene-d5	9.665	117	376477	10.000	ug/L	0.00
84) 1,4-Dichlorobenzene-d4	12.349	152	209535	10.000	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	5.292	113	147730	9.959	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.59%			
47) 1,2-Dichloroethane-d4	5.822	65	178072	11.215	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 112.15%			
64) Toluene-d8	7.814	98	504874	10.228	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.28%			
88) 4-Bromofluorobenzene	11.143	95	189588	9.969	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.69%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.680	85	105036	10.888	ug/L	97
3) Chloromethane	1.874	50	125240	12.776	ug/L	98
4) Vinyl chloride	1.947	62	119865	11.608	ug/L	100
5) Bromomethane	2.267	94	51854	8.888	ug/L	100
6) Chloroethane	2.377	64	73101M1	11.392	ug/L	
7) Trichlorofluoromethane	2.529	101	150801	12.482	ug/L	99
10) 1,1-Dichloroethene	3.027	96	84898	9.960	ug/L	88
11) Carbon disulfide	3.053	76	275219	11.858	ug/L	100
12) Freon-113	3.069	101	88128	10.466	ug/L	92
15) Methylene chloride	3.583	84	106927	10.888	ug/L	93
17) Acetone	3.620	43	19452	9.731	ug/L	92
18) trans-1,2-Dichloroethene	3.740	96	95710	10.465	ug/L	91
19) Methyl acetate	3.745	43	45507	10.311	ug/L #	91
21) Methyl tert-butyl ether	3.840	73	174061	8.519	ug/L	93
25) 1,1-Dichloroethane	4.327	63	208459	12.117	ug/L	98
30) cis-1,2-Dichloroethene	4.852	96	105915	9.994	ug/L	91
33) Bromochloromethane	5.046	128	46283	9.574	ug/L #	78
34) Cyclohexane	5.061	56	167105	11.221	ug/L	95
35) Chloroform	5.114	83	200358	12.058	ug/L	92
37) Carbon tetrachloride	5.261	117	123489	11.025	ug/L	98
40) 1,1,1-Trichloroethane	5.324	97	152127	11.024	ug/L	95
42) 2-Butanone	5.408	43	26607M3	10.210	ug/L	
45) Benzene	5.691	78	372735	11.167	ug/L	98
48) 1,2-Dichloroethane	5.890	62	125146	10.781	ug/L #	99

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A01.D
Acq On : 05 Jun 2024 06:45 am
Operator : VOA130:PID
Sample : WG1930005-3,31,10,10
Misc : WG1930005,ICAL21085
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 07:08:33 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
51)	Methyl cyclohexane	6.294	83	135363	9.889	ug/L		92
52)	Trichloroethene	6.294	95	87956	9.561	ug/L		96
55)	1,2-Dichloropropane	6.834	63	96919	10.980	ug/L		98
58)	Bromodichloromethane	6.907	83	127357	10.452	ug/L		99
61)	1,4-Dioxane	7.112	88	30025	402.724	ug/L		94
62)	cis-1,3-Dichloropropene	7.599	75	132036	9.658	ug/L	#	87
65)	Toluene	7.872	92	220766	10.735	ug/L		100
66)	4-Methyl-2-pentanone	8.307	58	16530	8.128	ug/L		91
67)	Tetrachloroethene	8.328	166	79570	9.435	ug/L		97
69)	trans-1,3-Dichloropropene	8.349	75	109068	9.769	ug/L	#	83
72)	1,1,2-Trichloroethane	8.538	83	53564	9.648	ug/L		99
73)	Chlorodibromomethane	8.753	129	70054	9.301	ug/L		98
75)	1,2-Dibromoethane	9.031	107	56675	8.769	ug/L		99
77)	2-Hexanone	9.319	43	28741	8.249	ug/L		99
78)	Chlorobenzene	9.686	112	227917	10.203	ug/L	#	87
79)	Ethylbenzene	9.728	91	428052	11.139	ug/L		100
81)	p/m Xylene	9.911	106	328743	21.270	ug/L		97
82)	o Xylene	10.446	106	311348	20.696	ug/L		100
83)	Styrene	10.514	104	521834	21.115	ug/L		97
85)	Bromoform	10.535	173	38104	8.580	ug/L		97
87)	Isopropylbenzene	10.829	105	406639	10.904	ug/L		99
92)	1,1,2,2-Tetrachloroethane	11.379	83	74927	9.785	ug/L		99
105)	1,3-Dichlorobenzene	12.271	146	190870	10.281	ug/L		99
106)	1,4-Dichlorobenzene	12.365	146	192937	10.195	ug/L		99
109)	1,2-Dichlorobenzene	12.785	146	178306	9.948	ug/L		98
111)	1,2-Dibromo-3-chloropr...	13.566	155	10717	8.081	ug/L		95
114)	1,2,4-Trichlorobenzene	14.195	180	117601	9.744	ug/L		98
116)	1,2,3-Trichlorobenzene	14.656	180	109158	9.490	ug/L		97

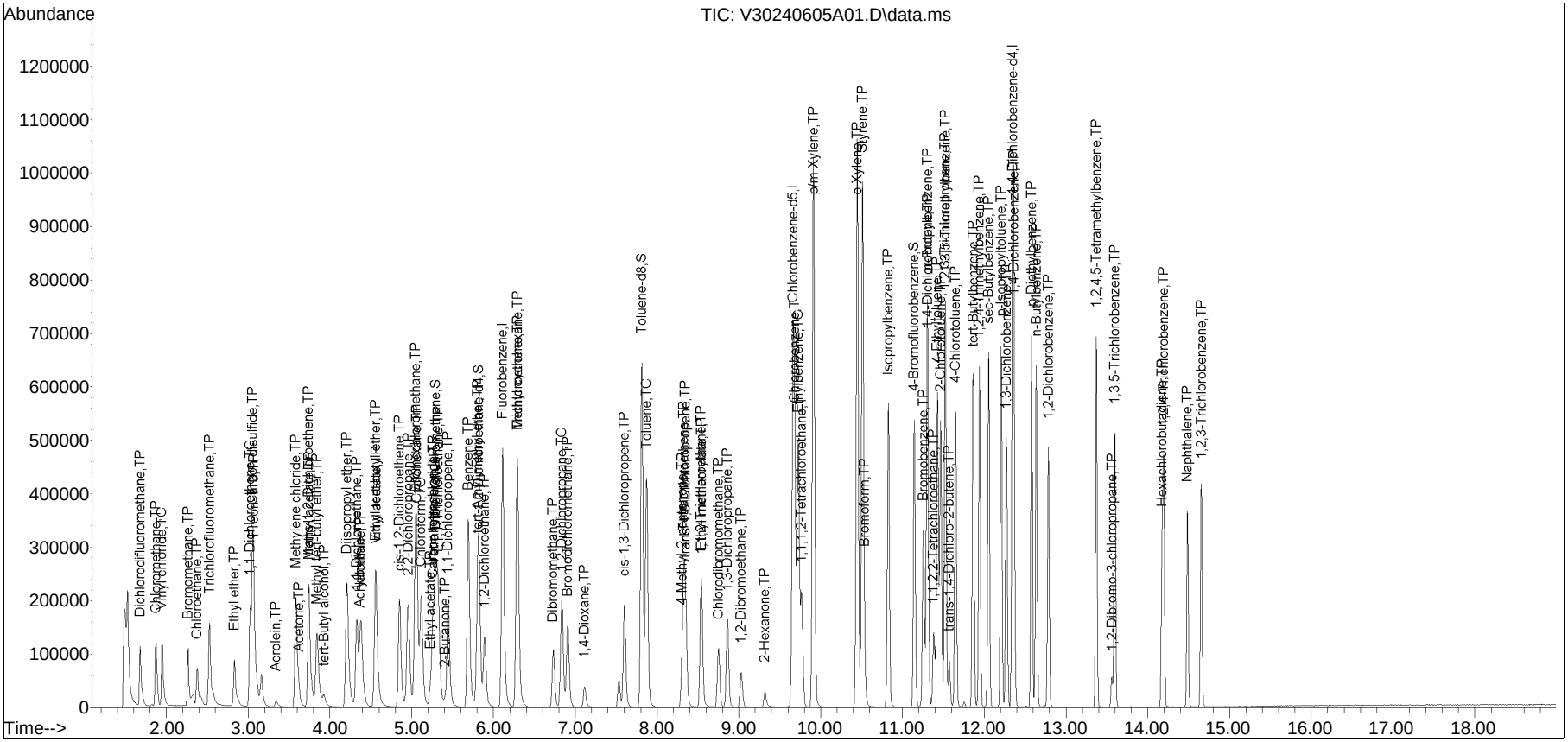
(#) = qualifier out of range (m) = manual integration (+) = signals summed

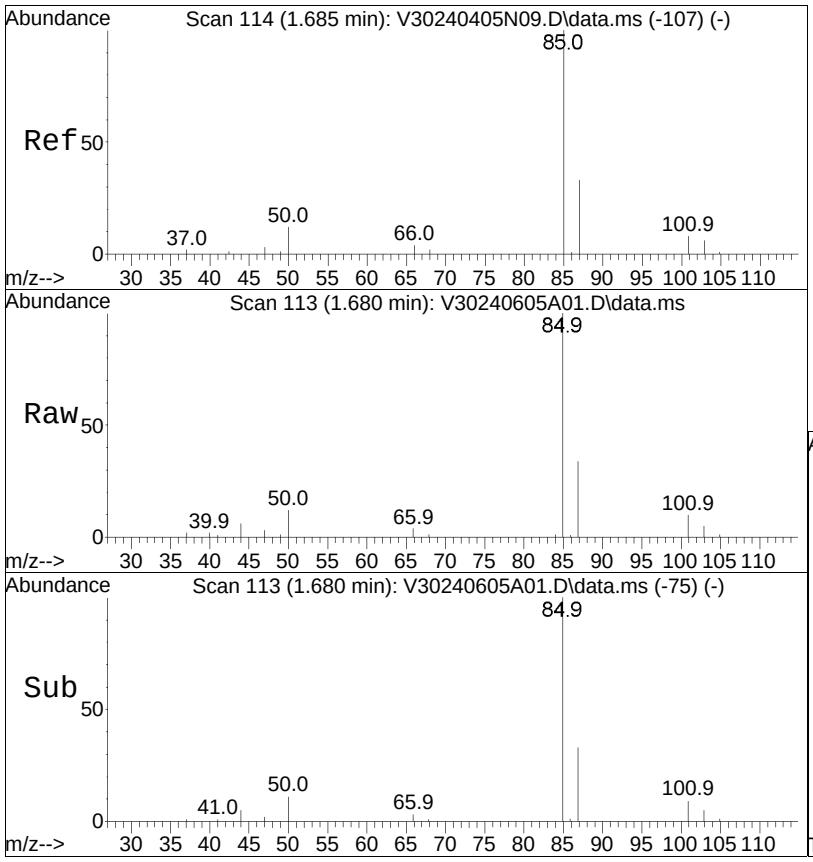
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A01.D
Acq On : 05 Jun 2024 06:45 am
Operator : VOA130:PID
Sample : WG1930005-3,31,10,10
Misc : WG1930005,ICAL21085
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 07:08:33 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

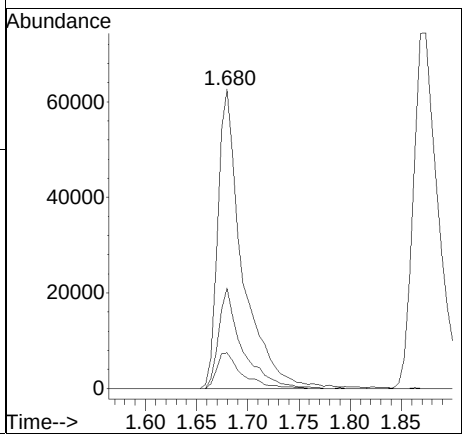


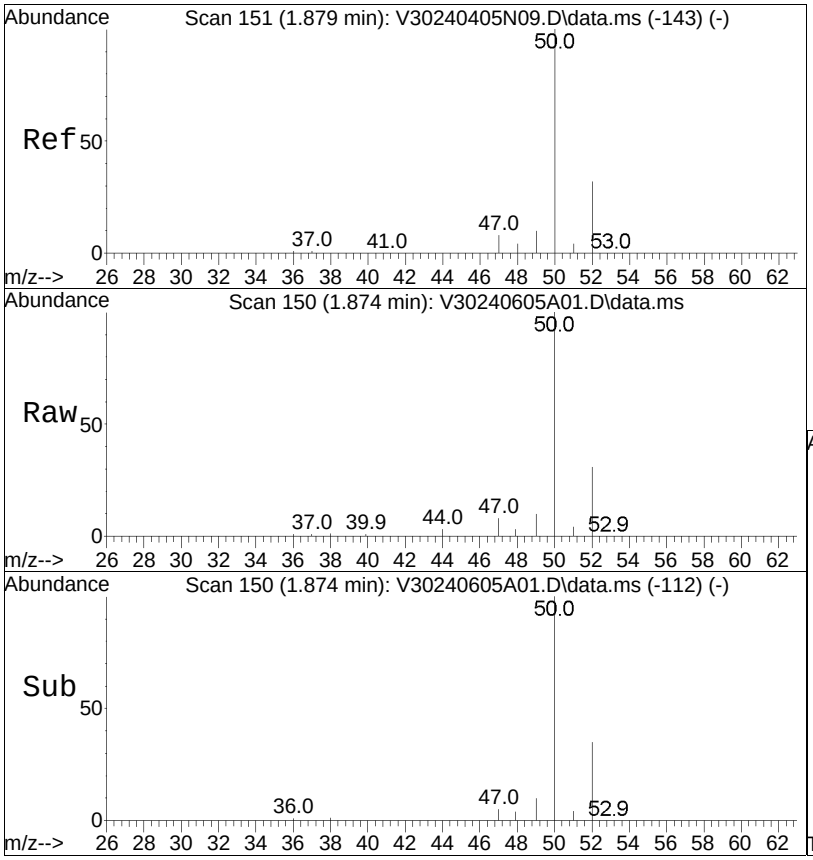


#2
Dichlorodifluoromethane
Concen: 10.89 ug/L
RT: 1.680 min Scan# 113
Delta R.T. -0.000 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 85 Resp: 105036

Ion	Ratio	Lower	Upper
85	100		
87	31.9	20.2	42.0
50	12.3	10.1	20.9

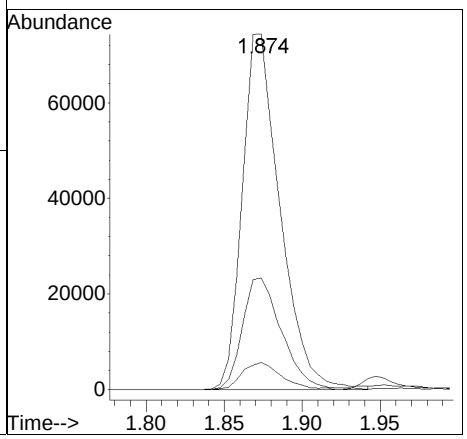


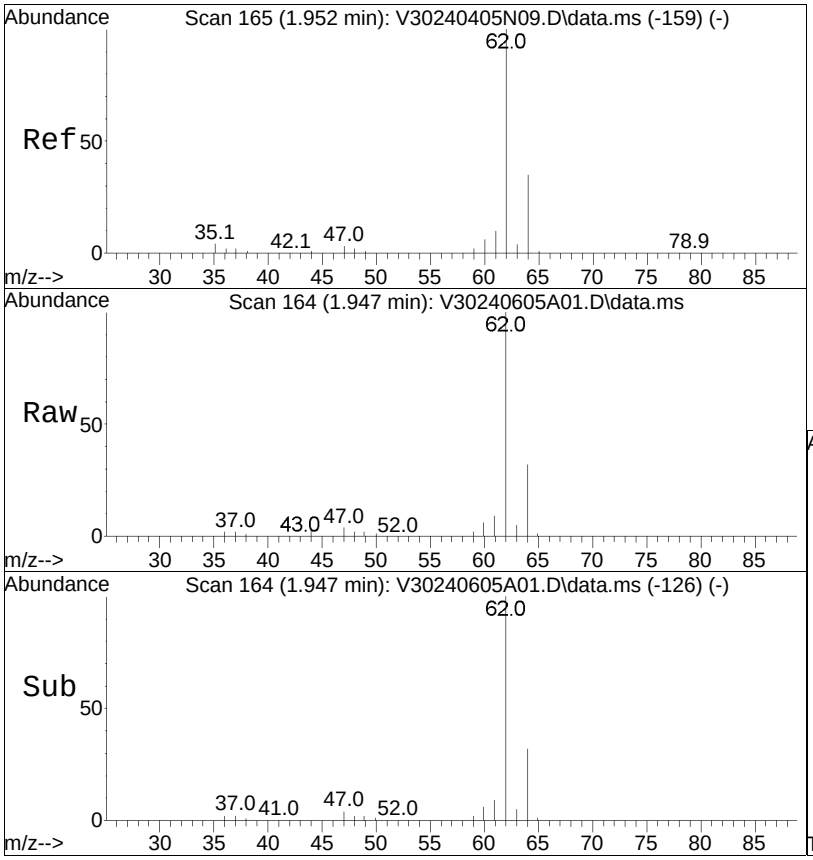


#3
Chloromethane
Concen: 12.78 ug/L
RT: 1.874 min Scan# 150
Delta R.T. -0.000 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 50 Resp: 125240

Ion	Ratio	Lower	Upper
50	100		
52	32.4	25.1	37.7
47	7.8	6.5	9.7

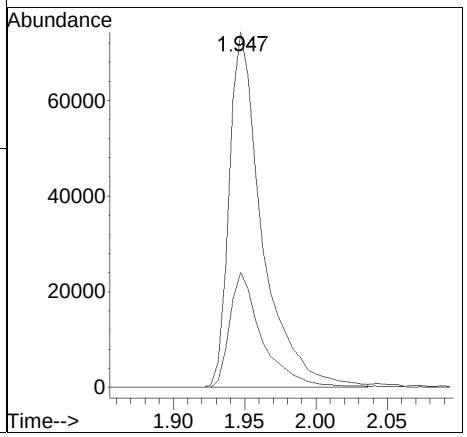


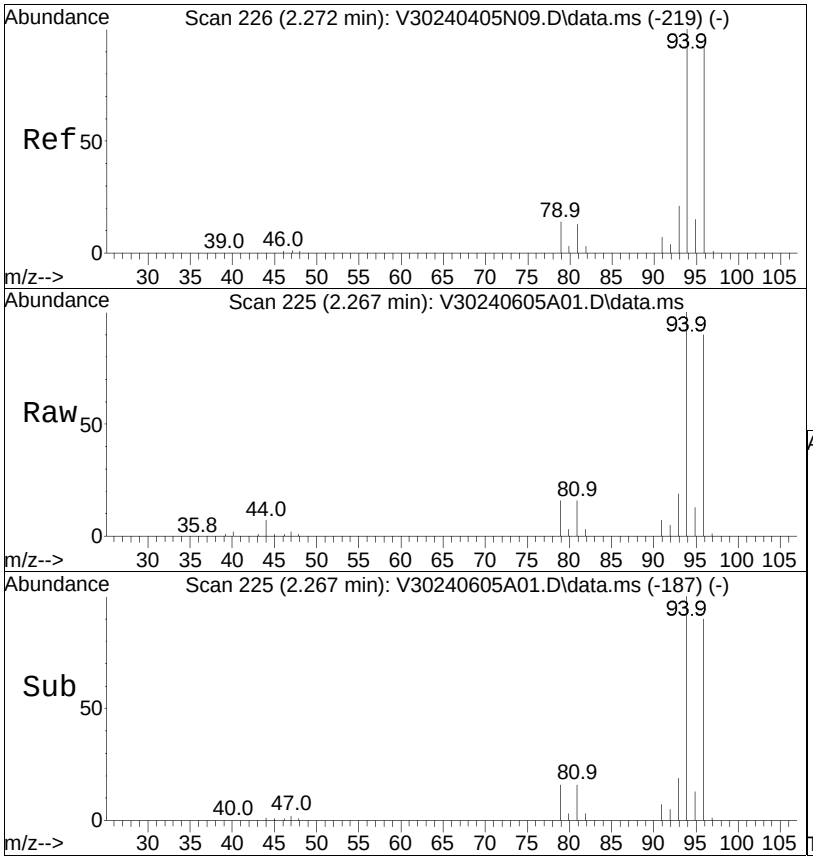


#4
Vinyl chloride
Concen: 11.61 ug/L
RT: 1.947 min Scan# 164
Delta R.T. 0.000 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 62 Resp: 119865

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.7	38.5

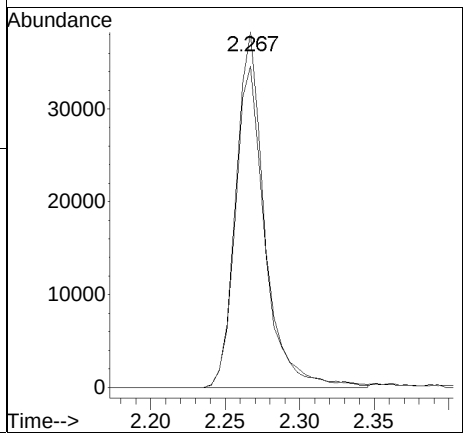


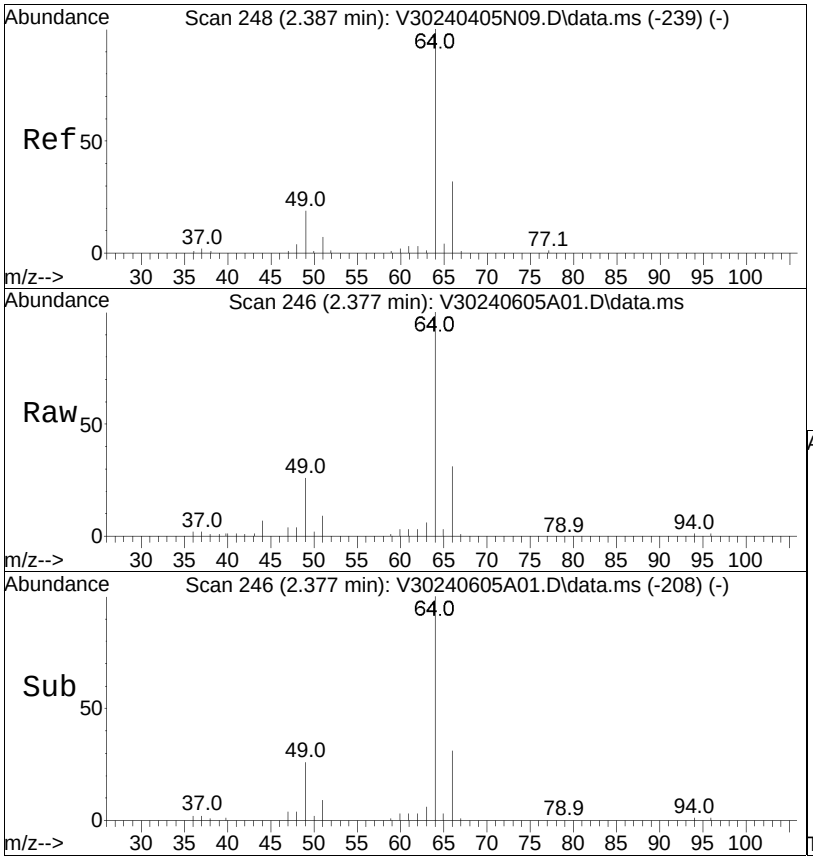


#5
Bromomethane
Concen: 8.89 ug/L
RT: 2.267 min Scan# 225
Delta R.T. -0.000 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 94 Resp: 51854

Ion	Ratio	Lower	Upper
94	100		
96	92.5	73.7	110.5

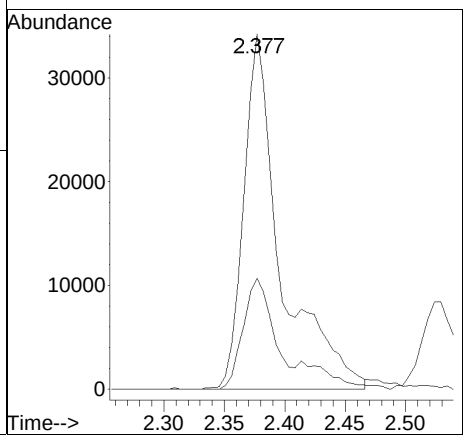


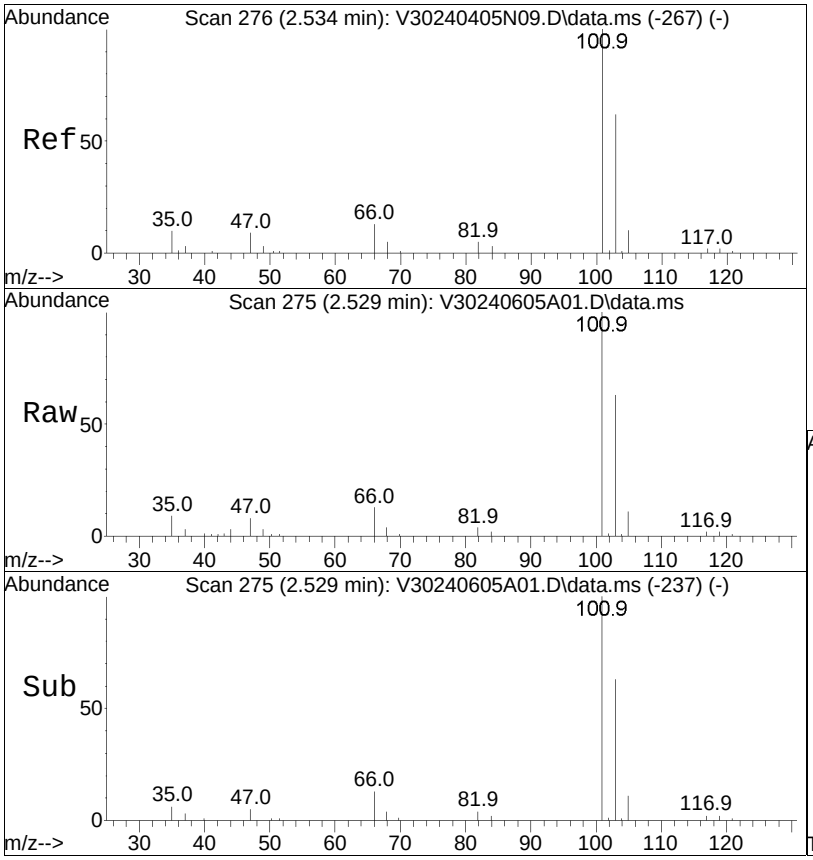


#6
Chloroethane
Concen: 11.39 ug/L M1
RT: 2.377 min Scan# 246
Delta R.T. 0.000 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 64 Resp: 73101

Ion	Ratio	Lower	Upper
64	100		
66	26.0	25.3	37.9

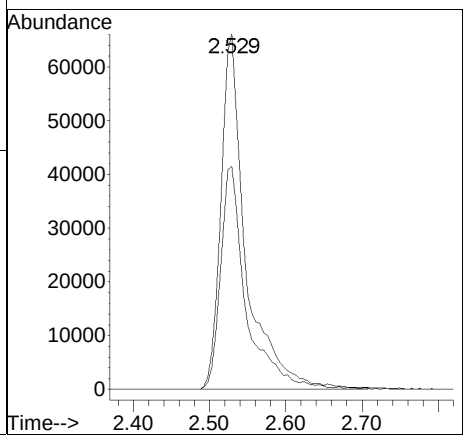


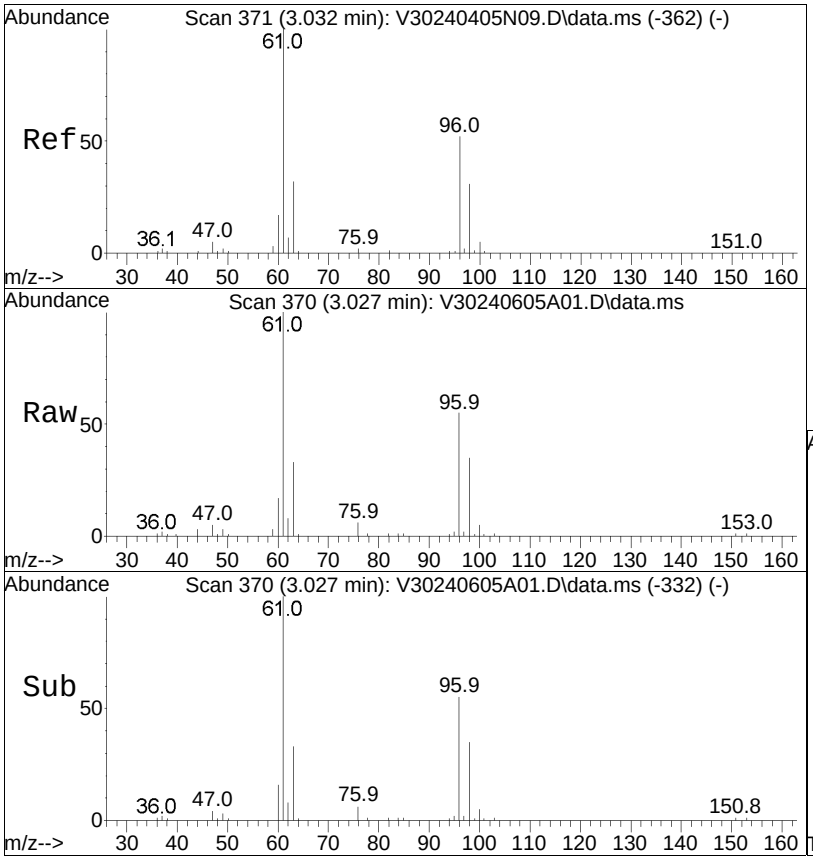


#7
Trichlorofluoromethane
Concen: 12.48 ug/L
RT: 2.529 min Scan# 275
Delta R.T. 0.000 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion:101 Resp: 150801

Ion	Ratio	Lower	Upper
101	100		
103	64.7	51.0	76.4

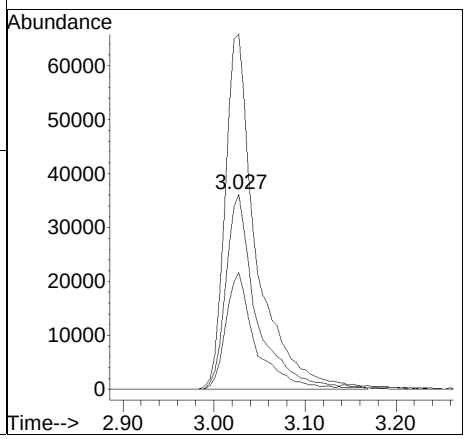


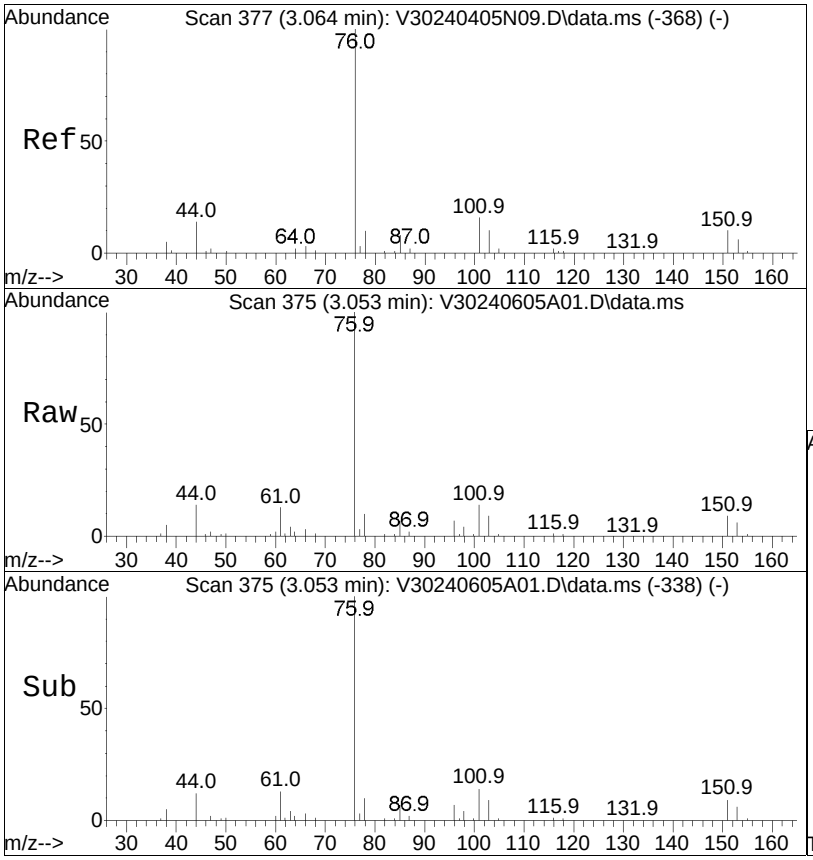


#10
1,1-Dichloroethene
Concen: 9.96 ug/L
RT: 3.027 min Scan# 370
Delta R.T. 0.000 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 96 Resp: 84898

Ion	Ratio	Lower	Upper
96	100		
61	186.2	165.5	248.3
63	58.9	51.9	77.9

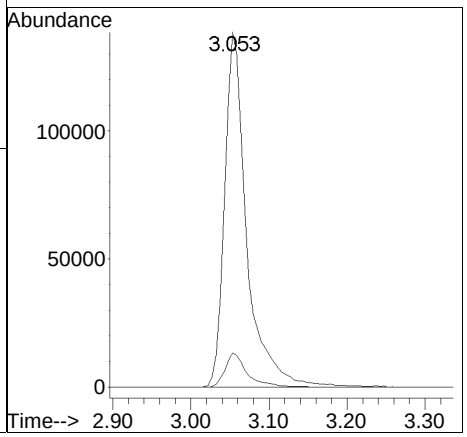


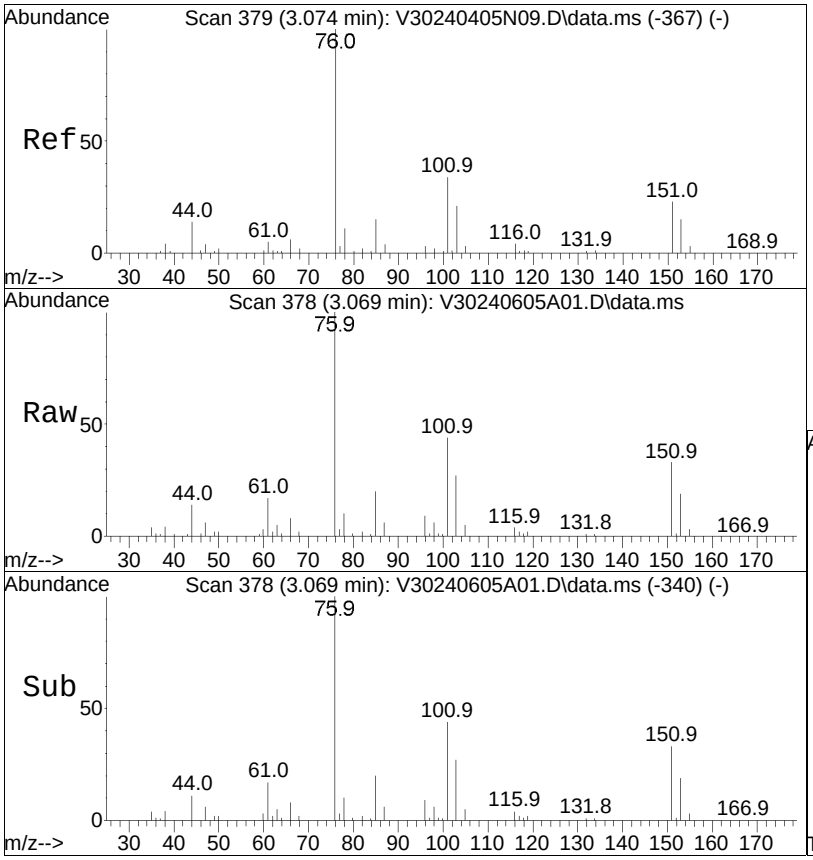


#11
Carbon disulfide
Concen: 11.86 ug/L
RT: 3.053 min Scan# 375
Delta R.T. -0.005 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 76 Resp: 275219

Ion	Ratio	Lower	Upper
76	100		
78	9.9	6.4	13.4

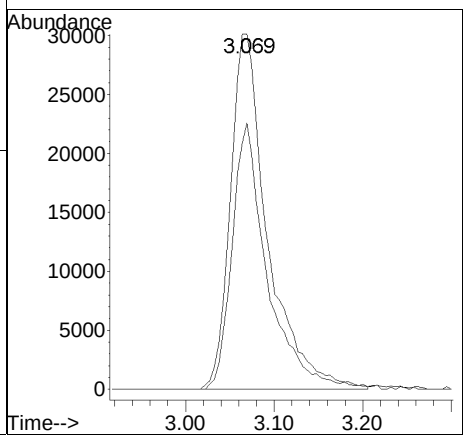


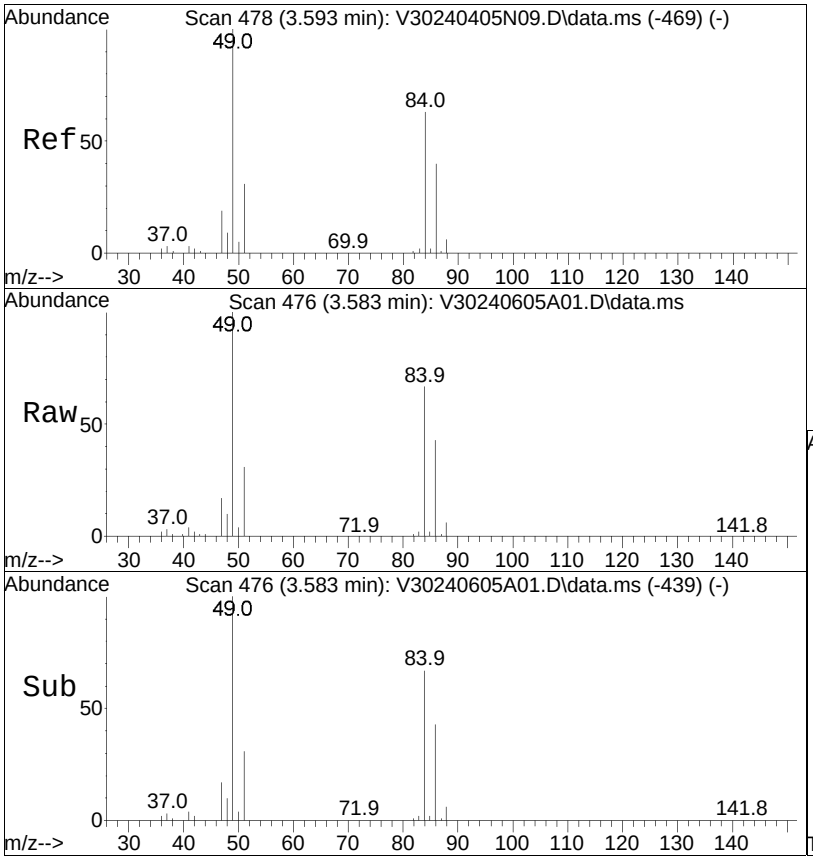


#12
Freon-113
Concen: 10.47 ug/L
RT: 3.069 min Scan# 378
Delta R.T. 0.000 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion:101 Resp: 88128

Ion	Ratio	Lower	Upper
101	100		
151	70.9	51.9	77.9

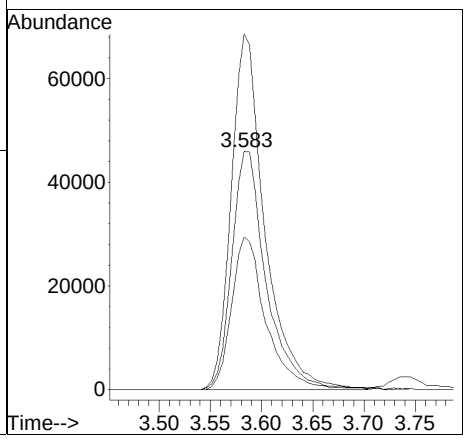


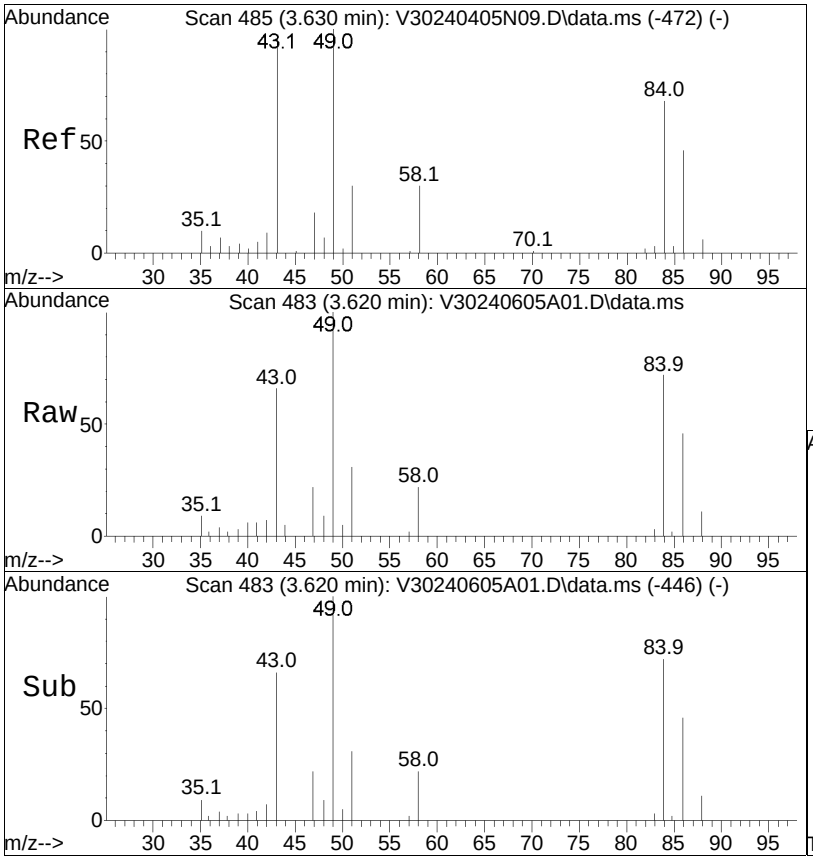


#15
Methylene chloride
Concen: 10.89 ug/L
RT: 3.583 min Scan# 476
Delta R.T. -0.005 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 84 Resp: 106927

Ion	Ratio	Lower	Upper
84	100		
86	64.0	41.7	86.5
49	146.3	103.9	215.9

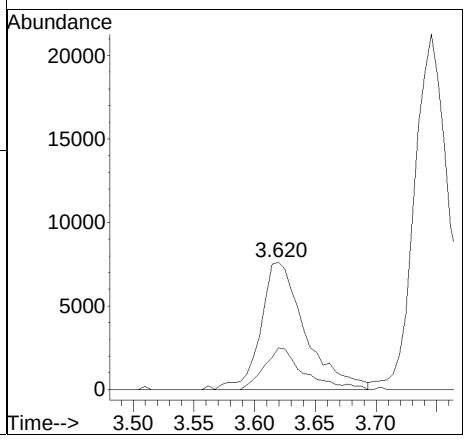


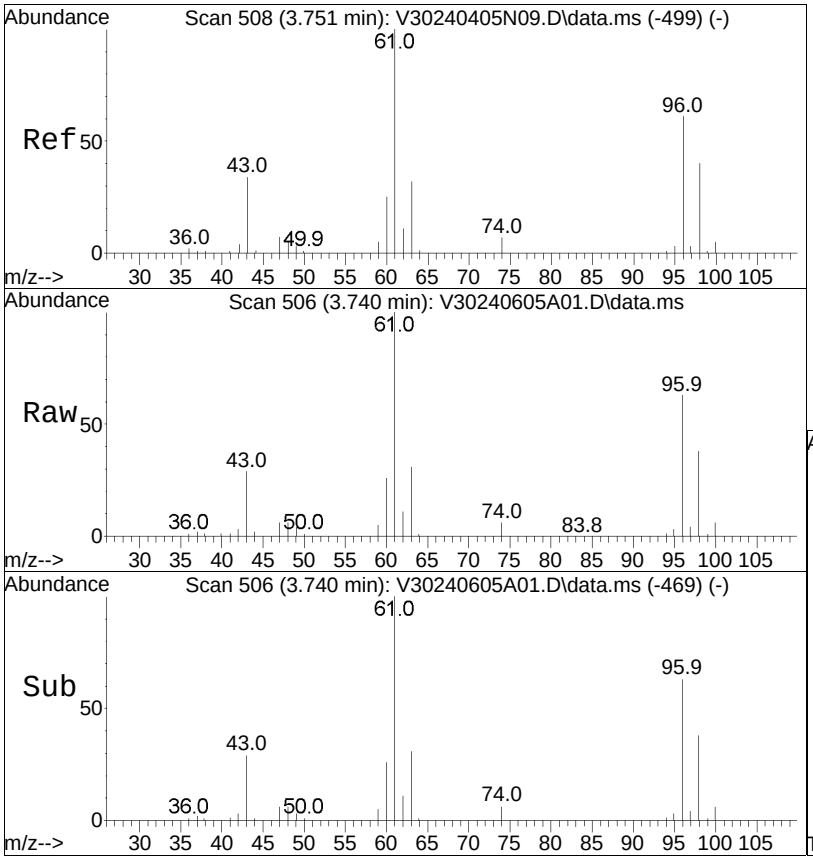


#17
Acetone
Concen: 9.73 ug/L
RT: 3.620 min Scan# 483
Delta R.T. -0.005 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 43 Resp: 19452

Ion	Ratio	Lower	Upper
43	100		
58	29.1	20.1	30.1

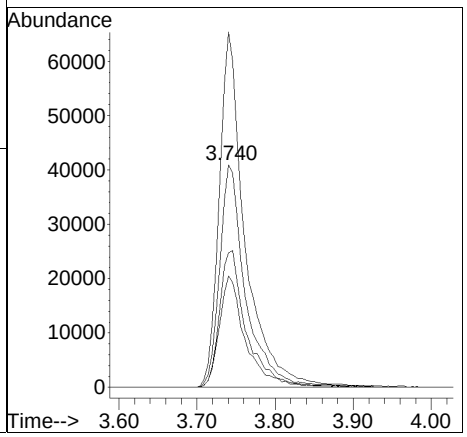


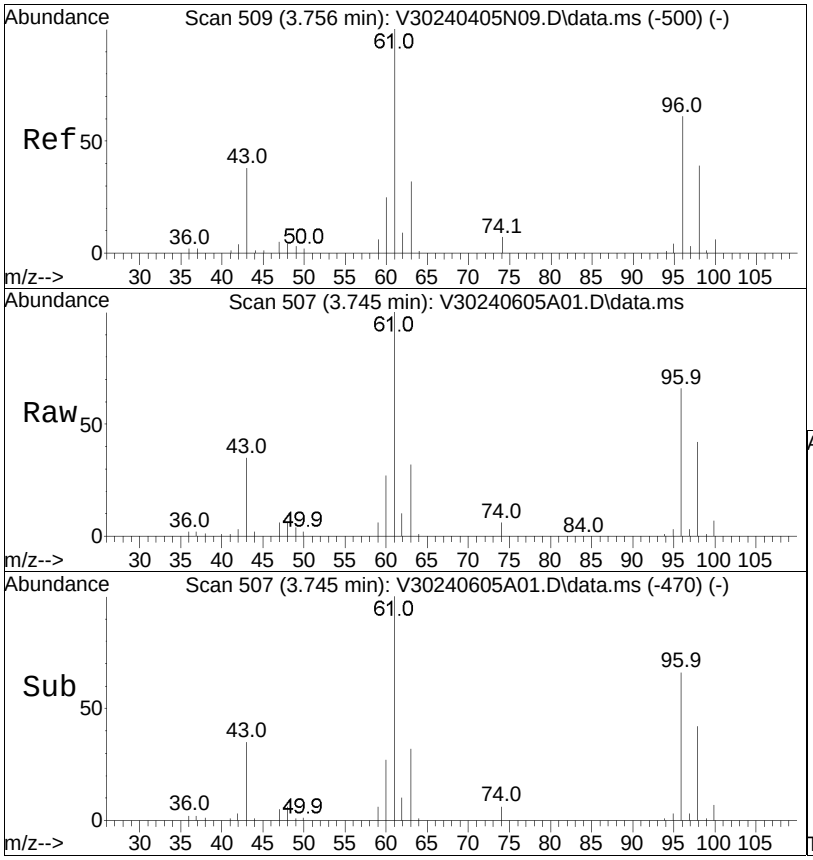


#18
trans-1,2-Dichloroethene
Concen: 10.46 ug/L
RT: 3.740 min Scan# 506
Delta R.T. -0.005 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 96 Resp: 95710

Ion	Ratio	Lower	Upper
96	100		
61	157.7	113.6	236.0
98	63.0	40.8	84.8
63	50.3	36.5	75.7

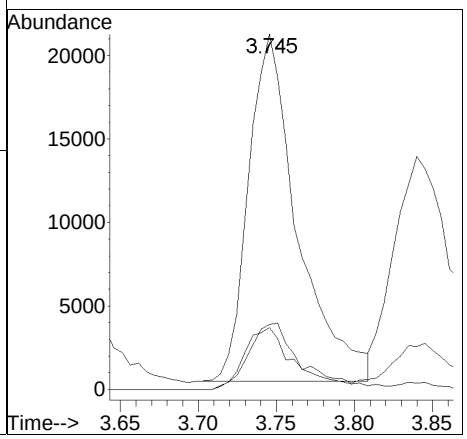


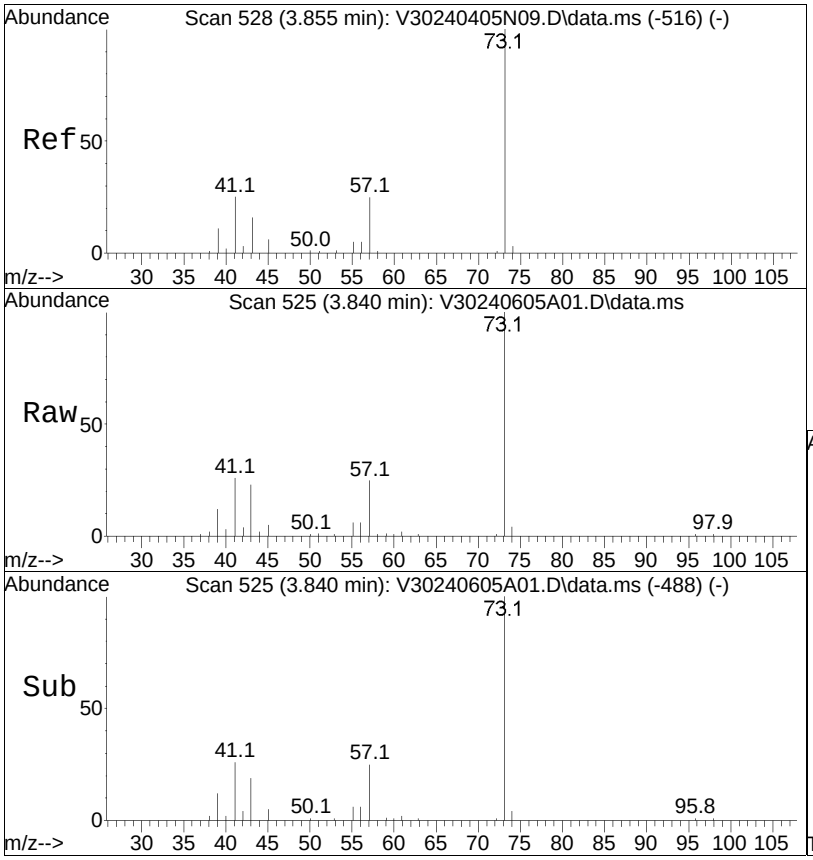


#19
Methyl acetate
Concen: 10.31 ug/L
RT: 3.745 min Scan# 507
Delta R.T. -0.006 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 43 Resp: 45507

Ion	Ratio	Lower	Upper
43	100		
74	19.6	14.6	22.0
59	18.7	9.3	13.9#

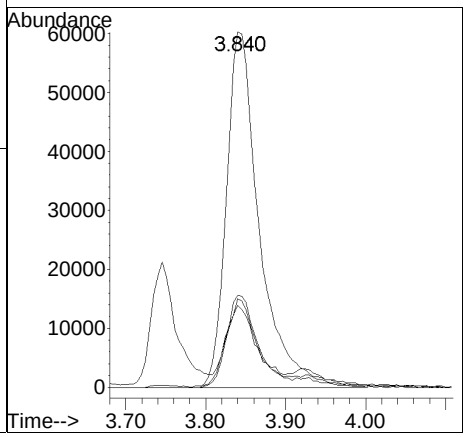


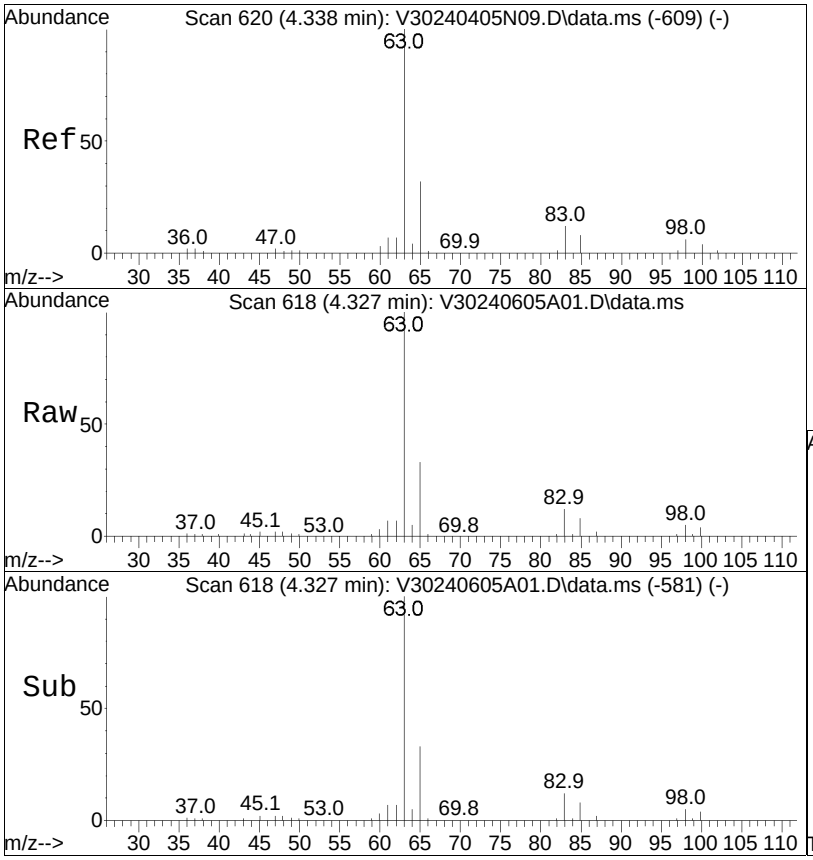


#21
Methyl tert-butyl ether
Concen: 8.52 ug/L
RT: 3.840 min Scan# 525
Delta R.T. -0.005 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 73 Resp: 174061

Ion	Ratio	Lower	Upper
73	100		
57	23.0	15.5	32.1
43	17.5	16.6	34.6
41	24.9	17.2	35.6

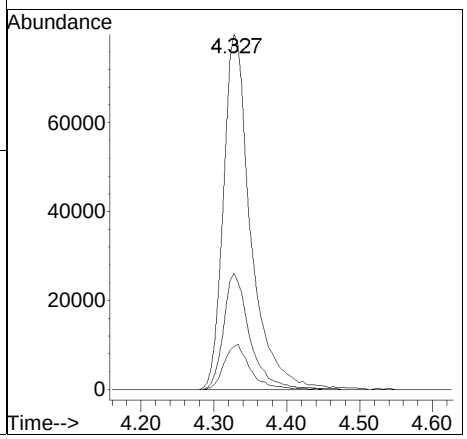


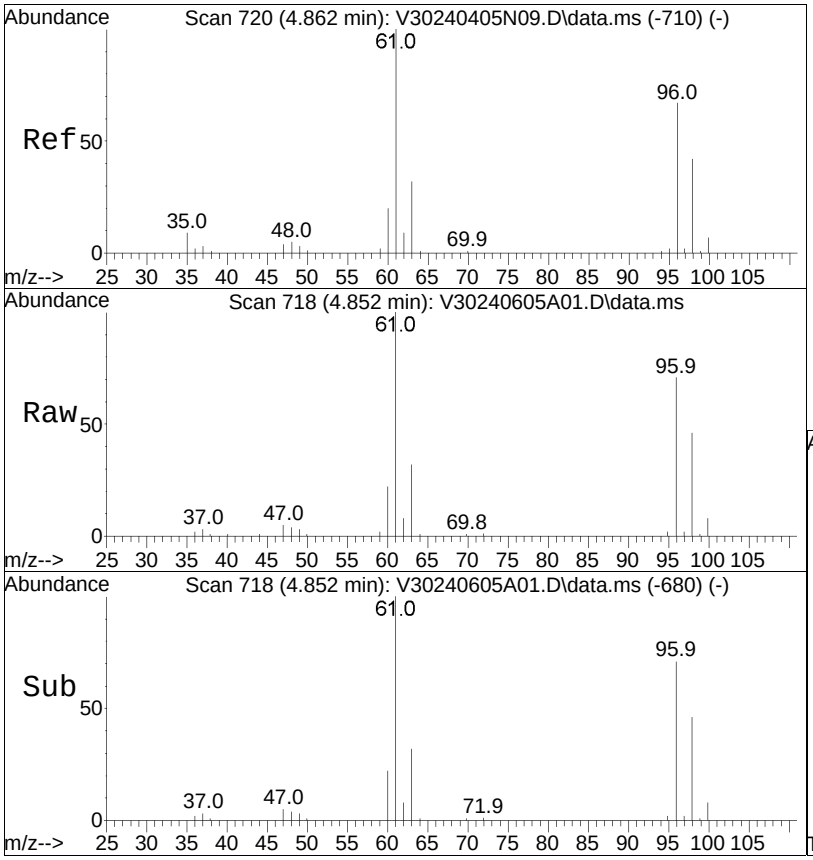


#25
1,1-Dichloroethane
Concen: 12.12 ug/L
RT: 4.327 min Scan# 618
Delta R.T. -0.006 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 63 Resp: 208459

Ion	Ratio	Lower	Upper
63	100		
65	31.3	24.5	36.7
83	12.1	8.9	13.3

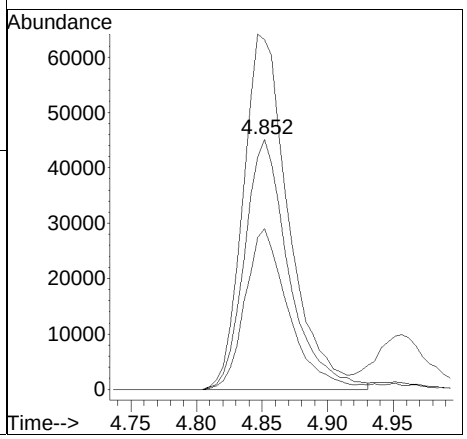


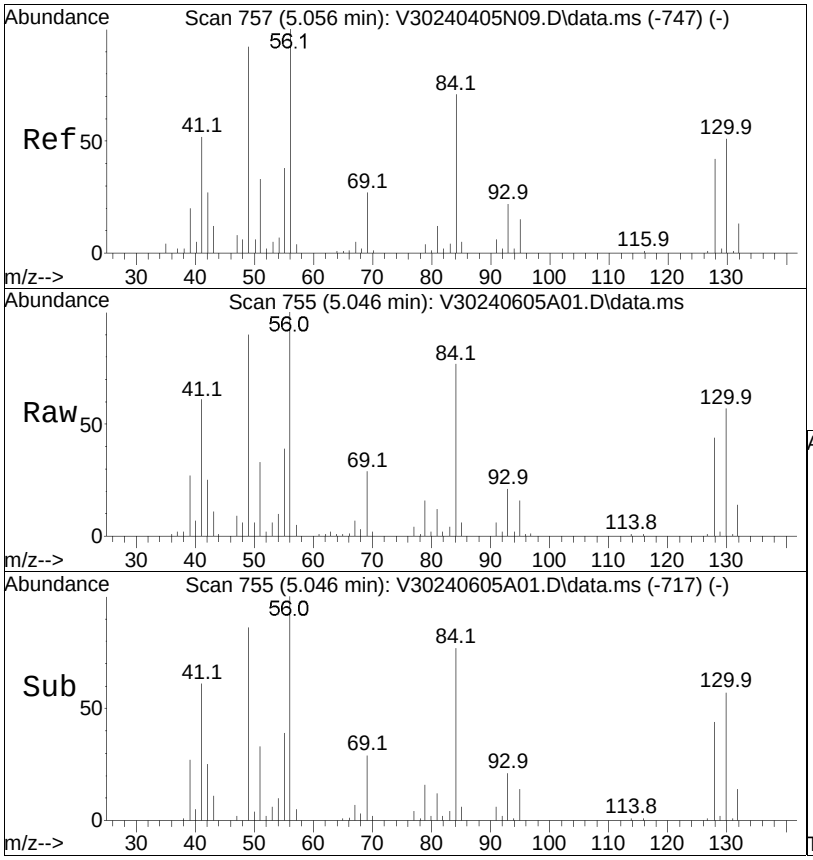


#30
cis-1,2-Dichloroethene
Concen: 9.99 ug/L
RT: 4.852 min Scan# 718
Delta R.T. -0.000 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 96 Resp: 105915

Ion	Ratio	Lower	Upper
96	100		
61	145.3	129.3	193.9
98	62.9	51.4	77.2

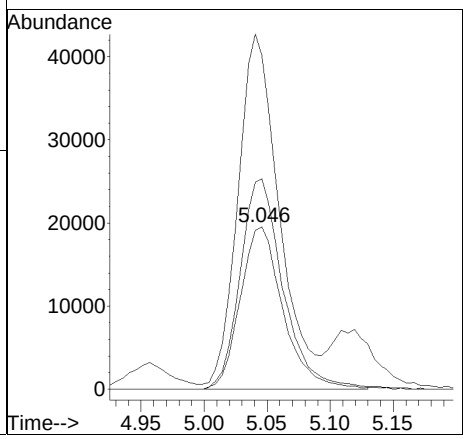


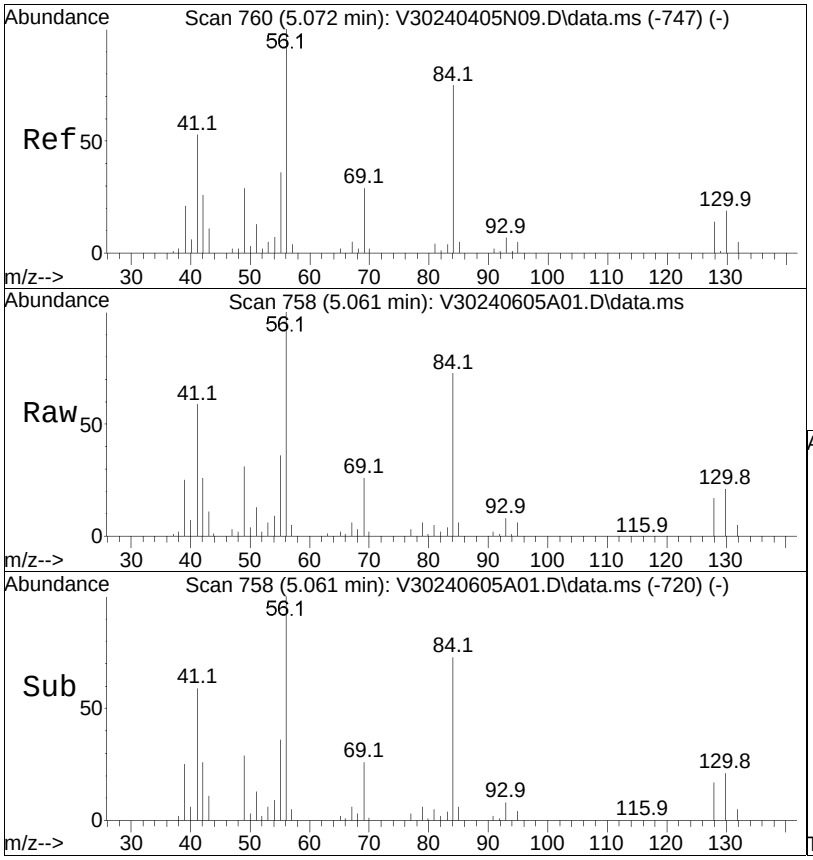


#33
Bromochloromethane
Concen: 9.57 ug/L
RT: 5.046 min Scan# 755
Delta R.T. -0.000 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion:128 Resp: 46283

Ion	Ratio	Lower	Upper
128	100		
49	210.0	214.8	322.2#
130	130.1	105.4	158.2

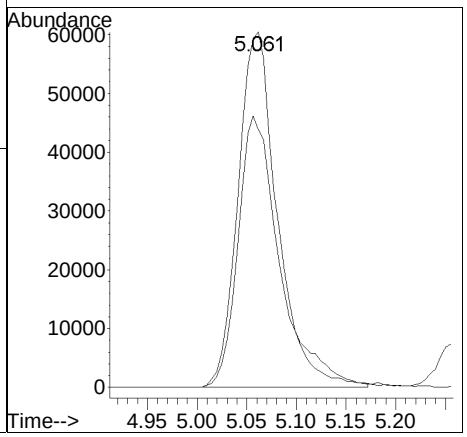


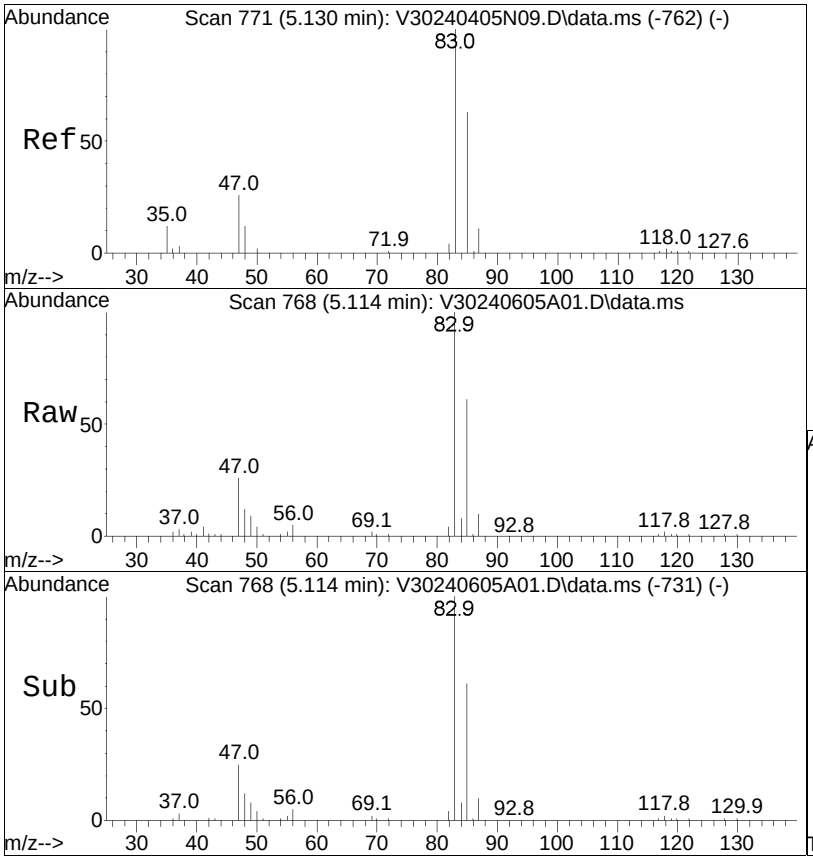


#34
Cyclohexane
Concen: 11.22 ug/L
RT: 5.061 min Scan# 758
Delta R.T. 0.000 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 56 Resp: 167105

Ion	Ratio	Lower	Upper
56	100		
84	81.2	49.9	103.5

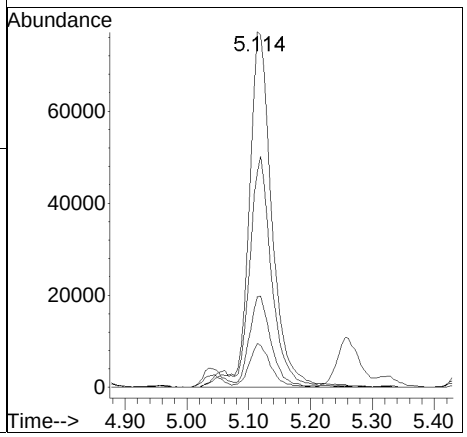


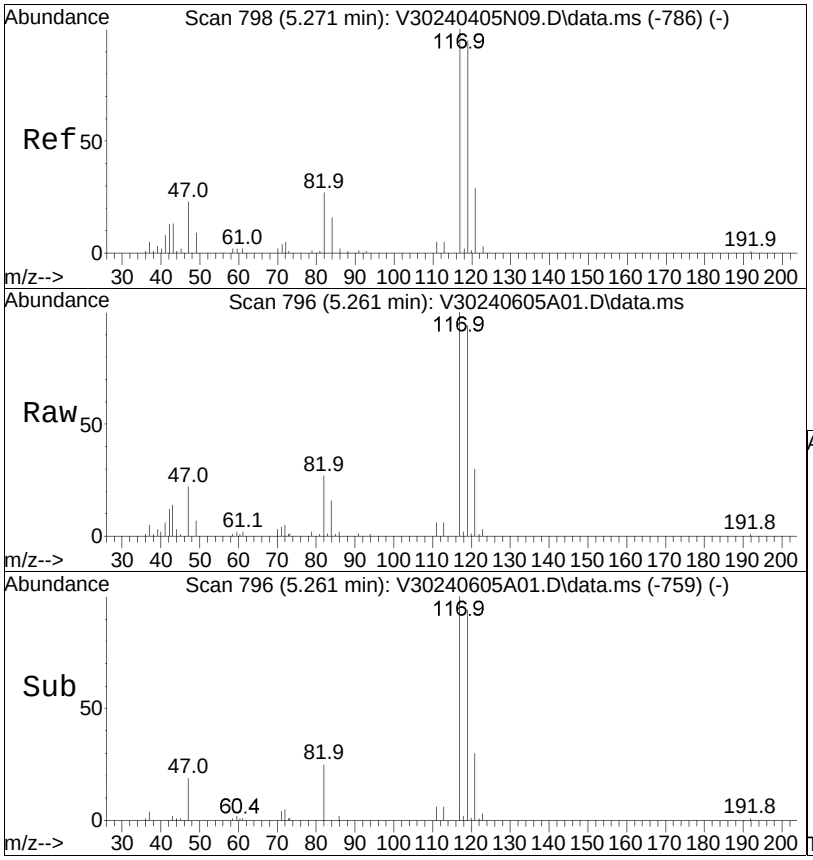


#35
Chloroform
Concen: 12.06 ug/L
RT: 5.114 min Scan# 768
Delta R.T. -0.005 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 83 Resp: 200358

Ion	Ratio	Lower	Upper
83	100		
85	60.1	41.4	86.0
47	23.4	20.5	42.5
48	11.7	9.9	20.5

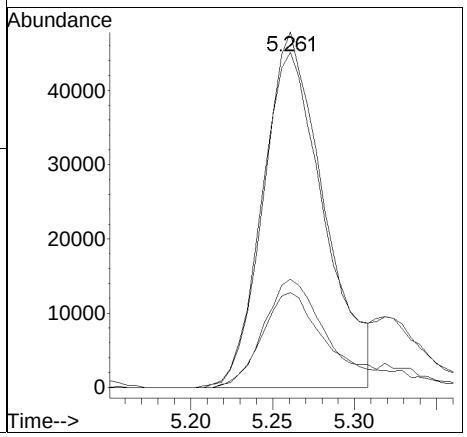


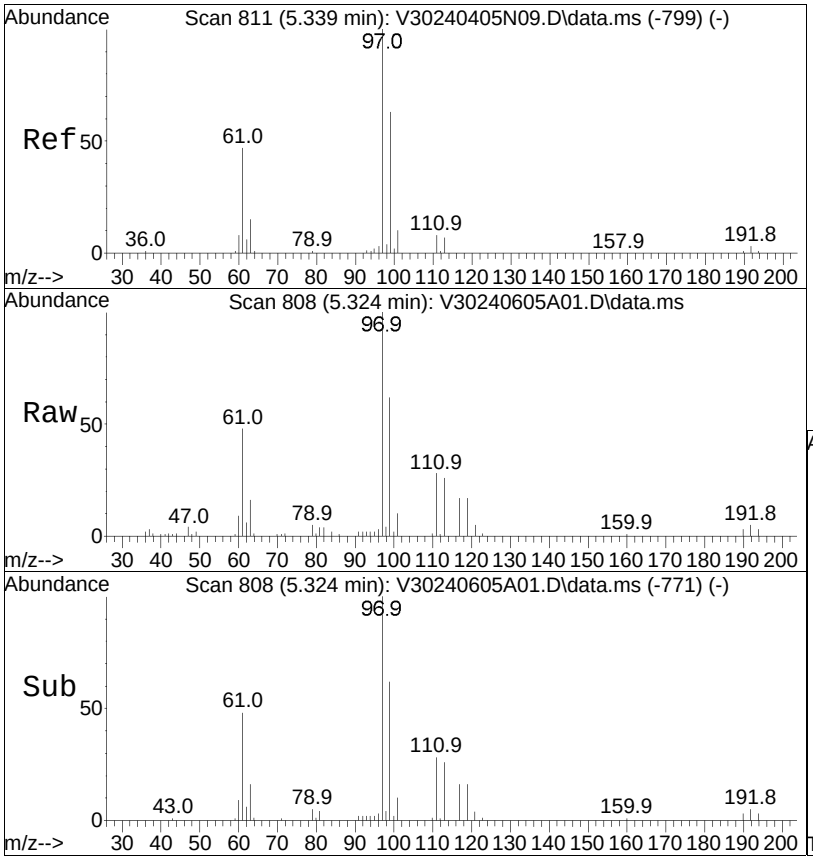


#37
Carbon tetrachloride
Concen: 11.02 ug/L
RT: 5.261 min Scan# 796
Delta R.T. -0.005 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion:117 Resp: 123489

Ion	Ratio	Lower	Upper
117	100		
119	95.7	62.0	128.8
121	31.4	19.6	40.6
82	31.8	18.8	39.0

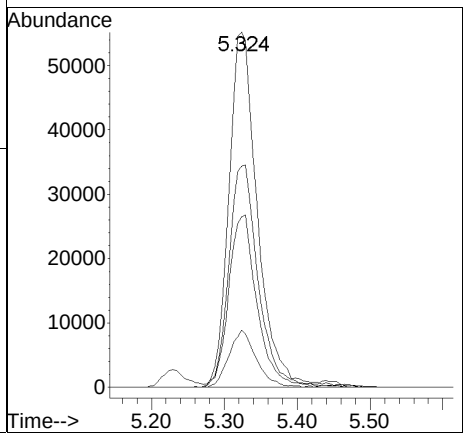


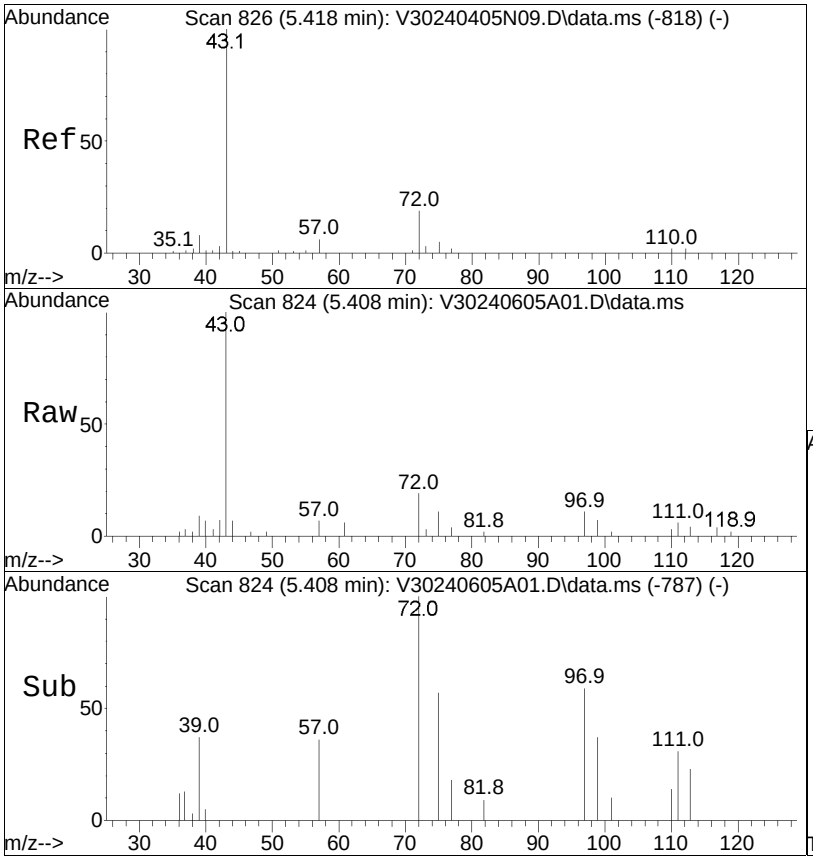


#40
1,1,1-Trichloroethane
Concen: 11.02 ug/L
RT: 5.324 min Scan# 808
Delta R.T. -0.005 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 97 Resp: 152127

Ion	Ratio	Lower	Upper
97	100		
99	63.2	40.6	84.4
61	47.5	35.0	72.8
63	15.4	11.1	23.0

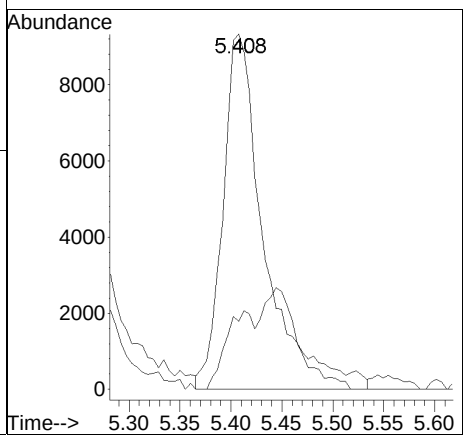


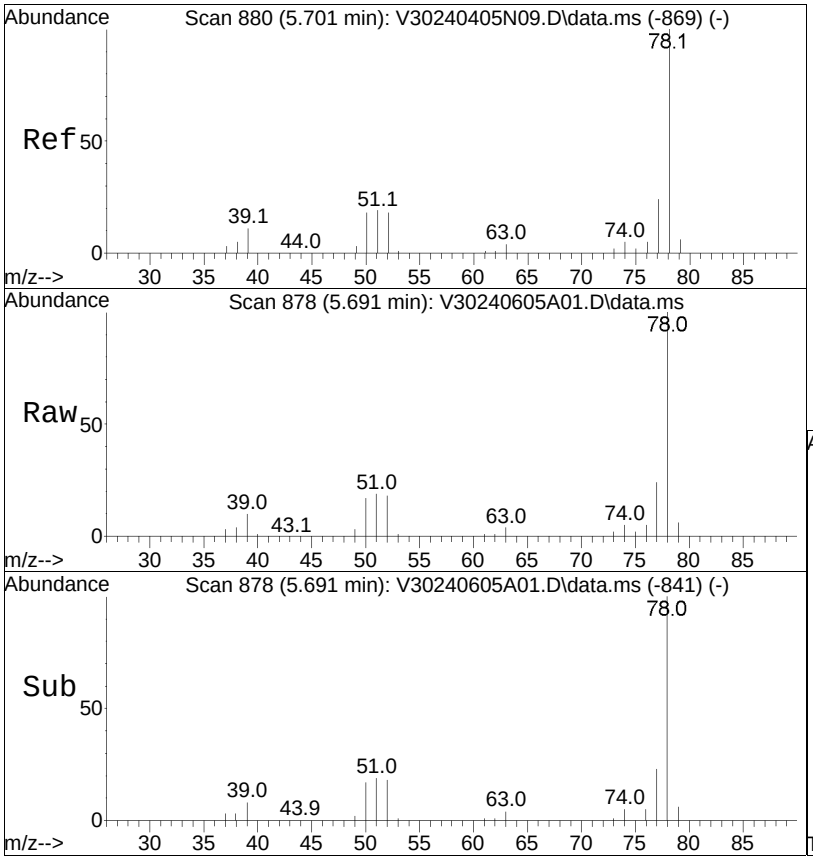


#42
2-Butanone
Concen: 10.21 ug/L M3
RT: 5.408 min Scan# 824
Delta R.T. -0.005 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 43 Resp: 26607

Ion	Ratio	Lower	Upper
43	100		
72	28.6	18.2	27.4#

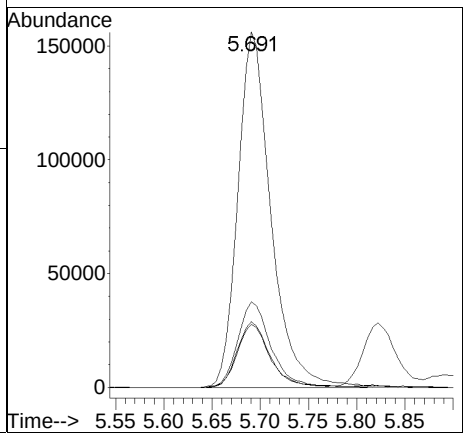


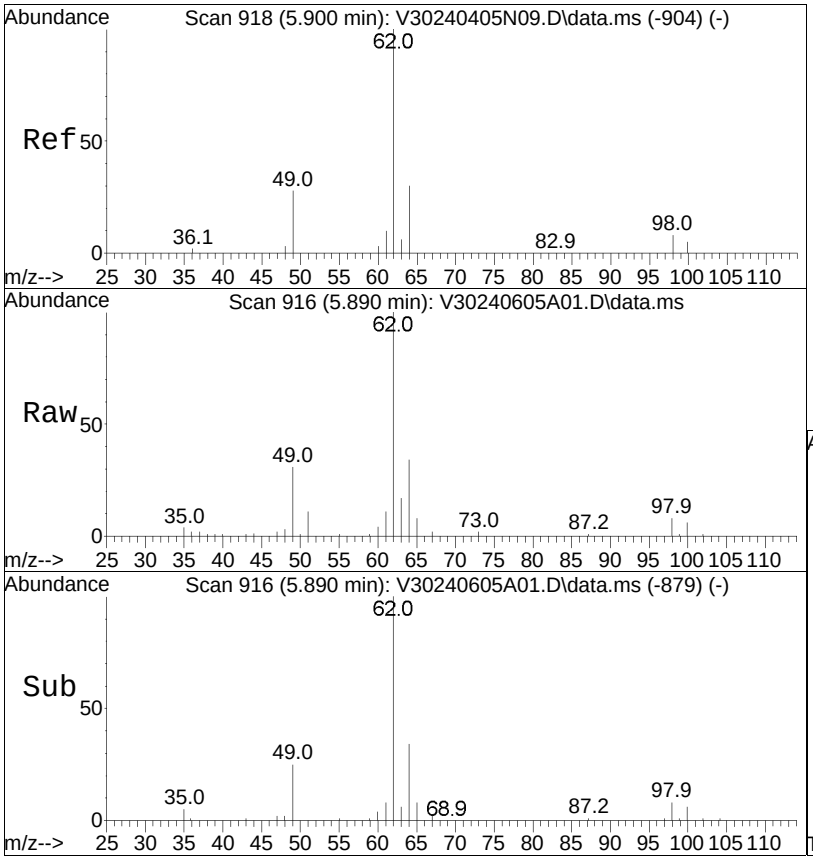


#45
Benzene
Concen: 11.17 ug/L
RT: 5.691 min Scan# 878
Delta R.T. -0.005 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 78 Resp: 372735

Ion	Ratio	Lower	Upper
78	100		
77	24.3	15.6	32.4
51	18.2	12.9	26.7
52	17.8	12.4	25.7

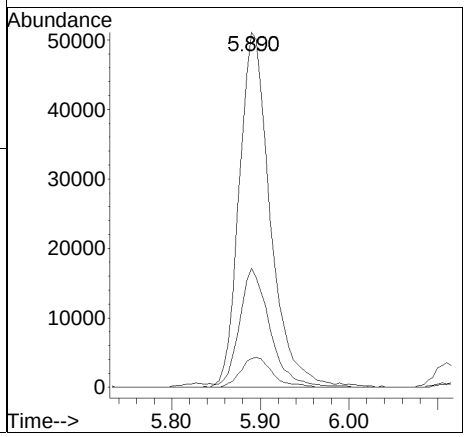


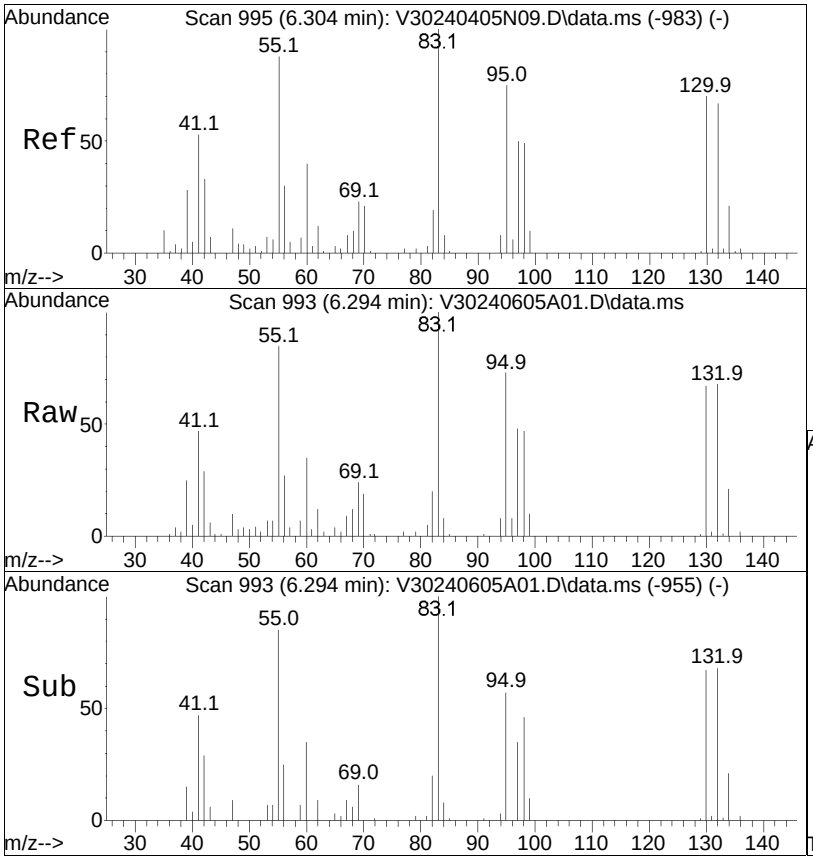


#48
1,2-Dichloroethane
Concen: 10.78 ug/L
RT: 5.890 min Scan# 916
Delta R.T. -0.005 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 62 Resp: 125146

Ion	Ratio	Lower	Upper
62	100		
64	31.8	25.5	38.3
98	8.6	5.5	8.3#

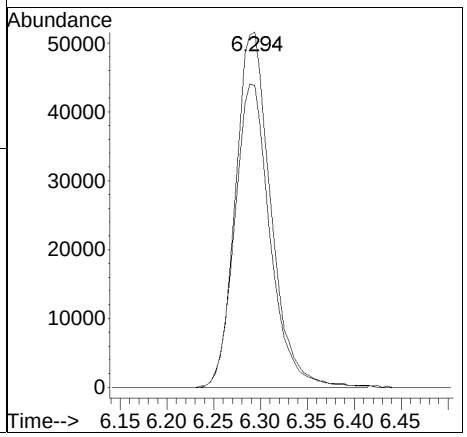


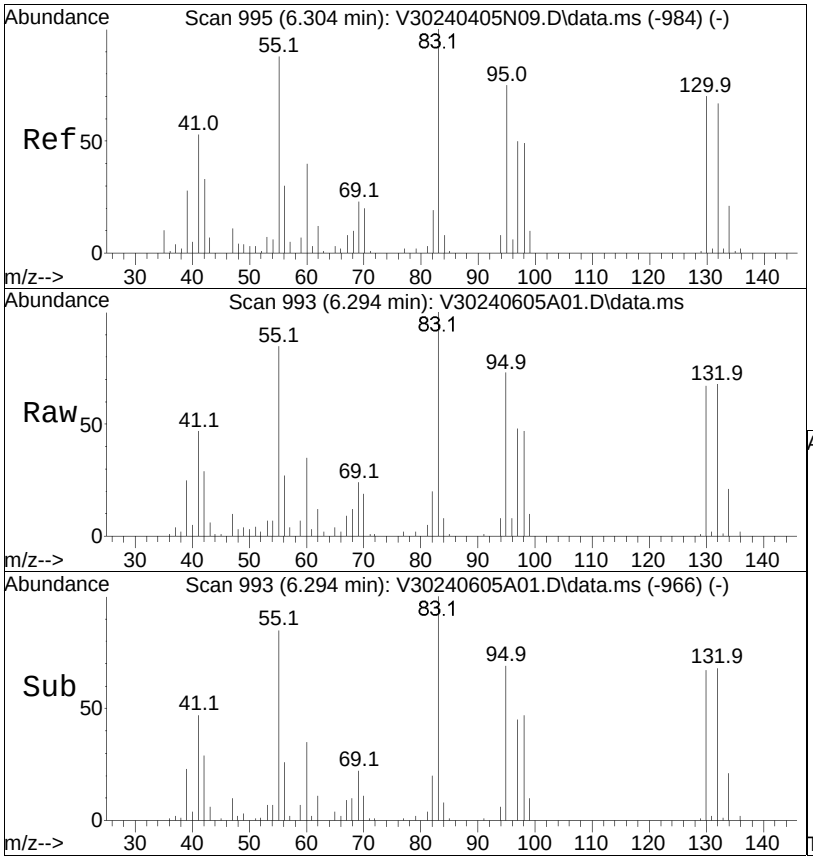


#51
Methyl cyclohexane
Concen: 9.89 ug/L
RT: 6.294 min Scan# 993
Delta R.T. 0.001 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 83 Resp: 135363

Ion	Ratio	Lower	Upper
83	100		
55	85.7	74.6	112.0

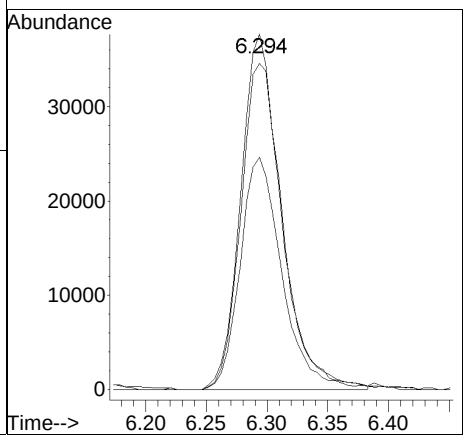


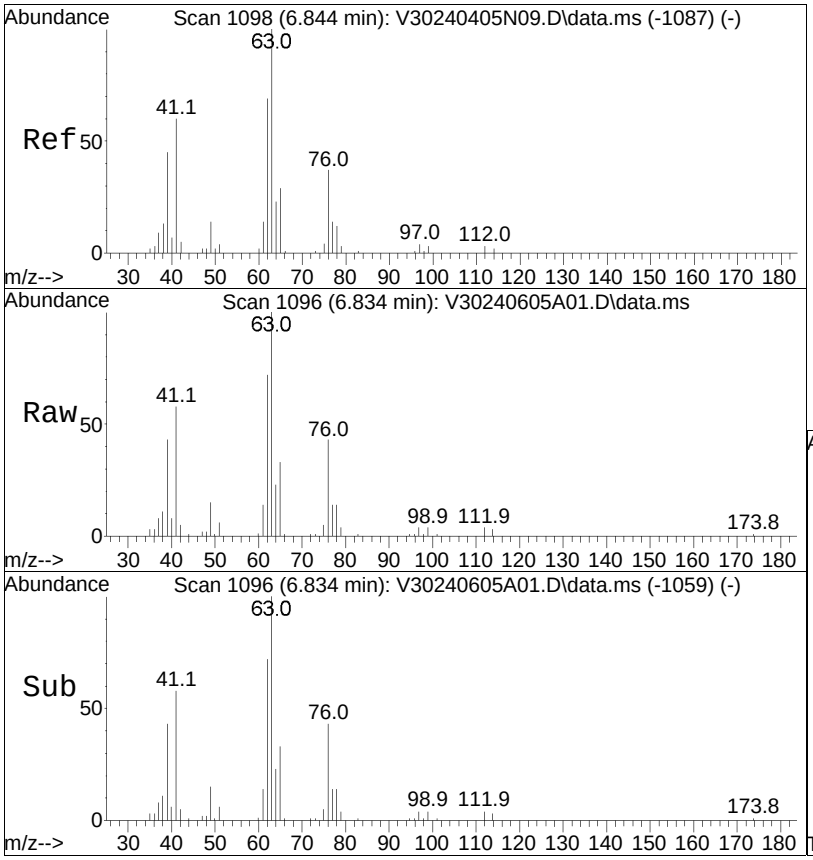


#52
Trichloroethene
Concen: 9.56 ug/L
RT: 6.294 min Scan# 993
Delta R.T. 0.001 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 95 Resp: 87956

Ion	Ratio	Lower	Upper
95	100		
97	67.4	53.8	80.6
130	95.4	71.4	107.0

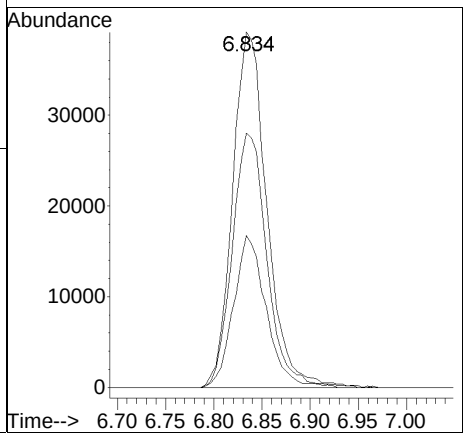


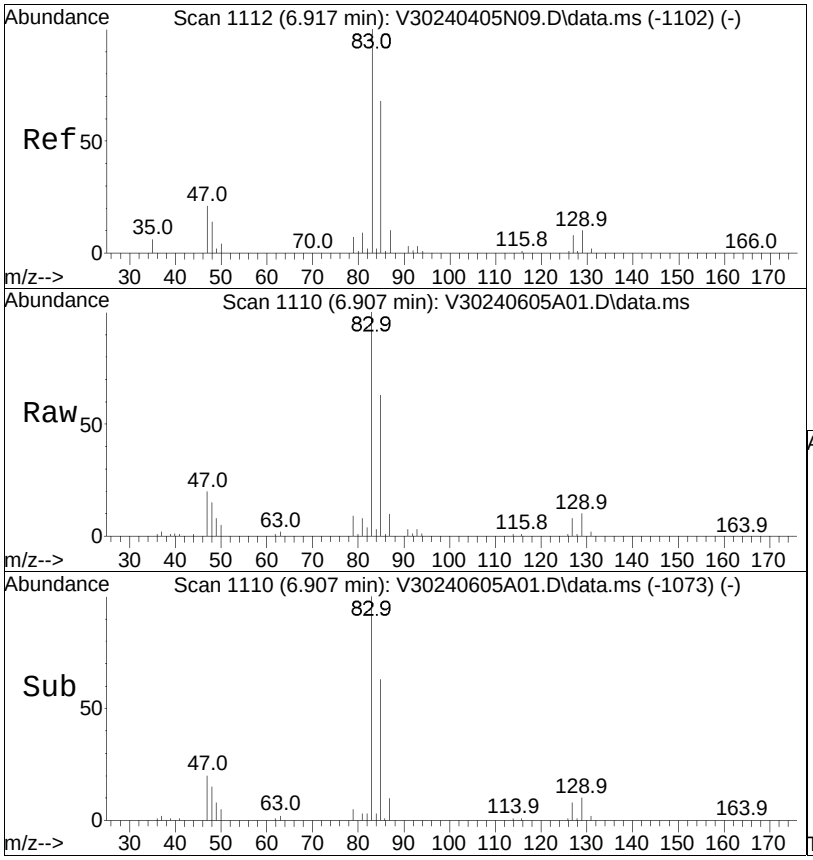


#55
1,2-Dichloropropane
Concen: 10.98 ug/L
RT: 6.834 min Scan# 1096
Delta R.T. -0.005 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 63 Resp: 96919

Ion	Ratio	Lower	Upper
63	100		
62	72.3	58.1	87.1
76	40.7	30.4	45.6

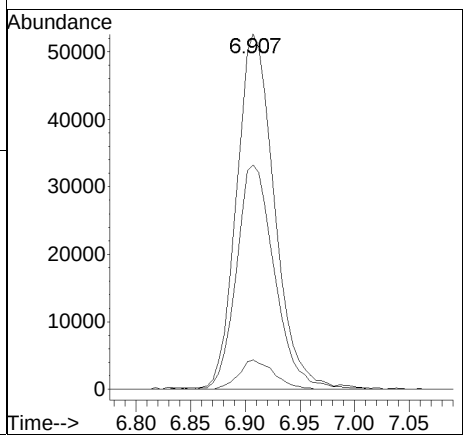


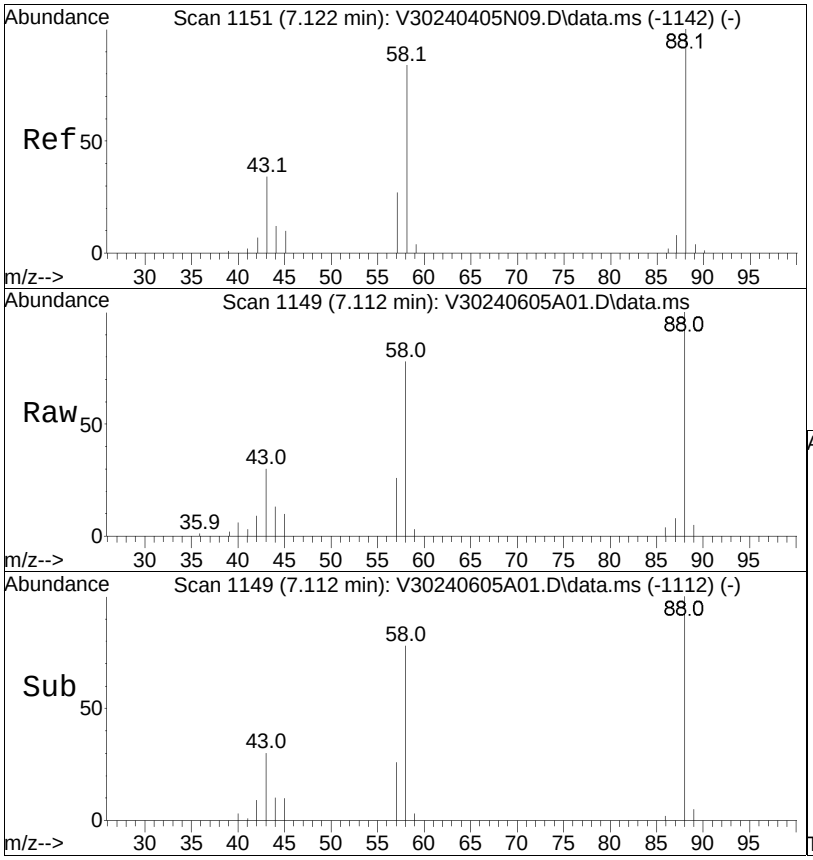


#58
Bromodichloromethane
Concen: 10.45 ug/L
RT: 6.907 min Scan# 1110
Delta R.T. -0.005 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 83 Resp: 127357

Ion	Ratio	Lower	Upper
83	100		
85	63.4	50.2	75.2
127	7.8	5.2	7.8

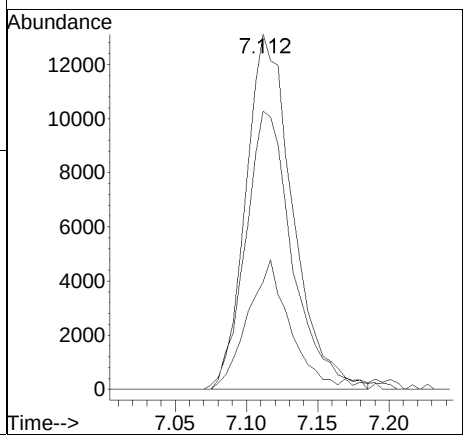


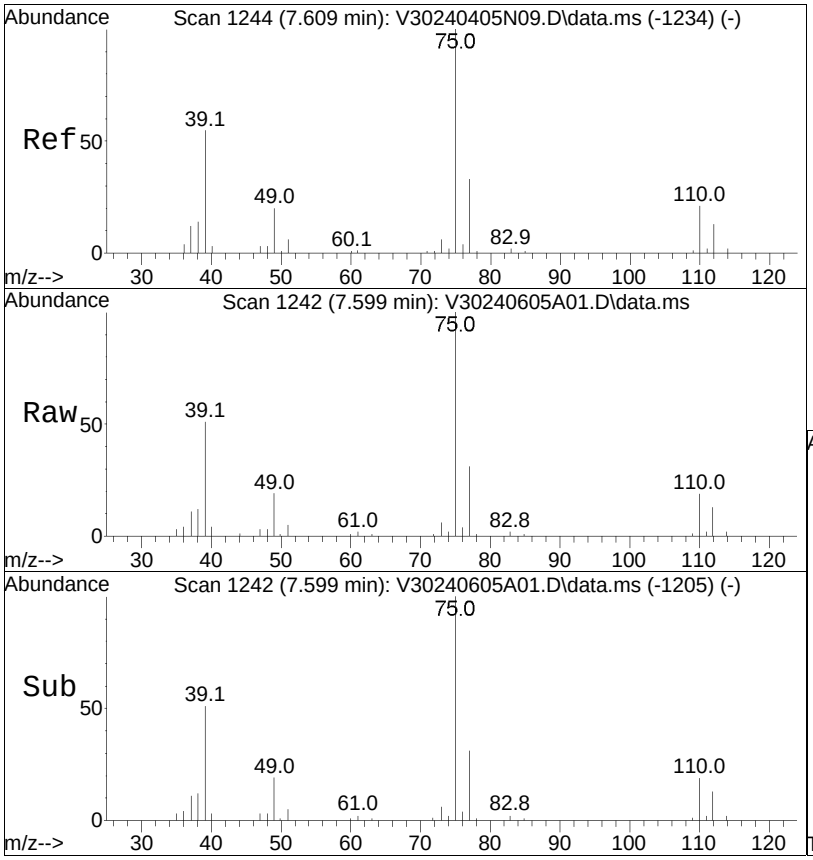


#61
1,4-Dioxane
Concen: 402.72 ug/L
RT: 7.112 min Scan# 1149
Delta R.T. -0.005 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 88 Resp: 30025

Ion	Ratio	Lower	Upper
88	100		
58	78.2	59.9	89.9
43	32.7	30.8	46.2

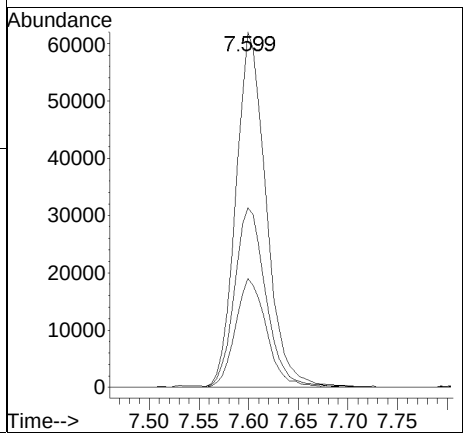


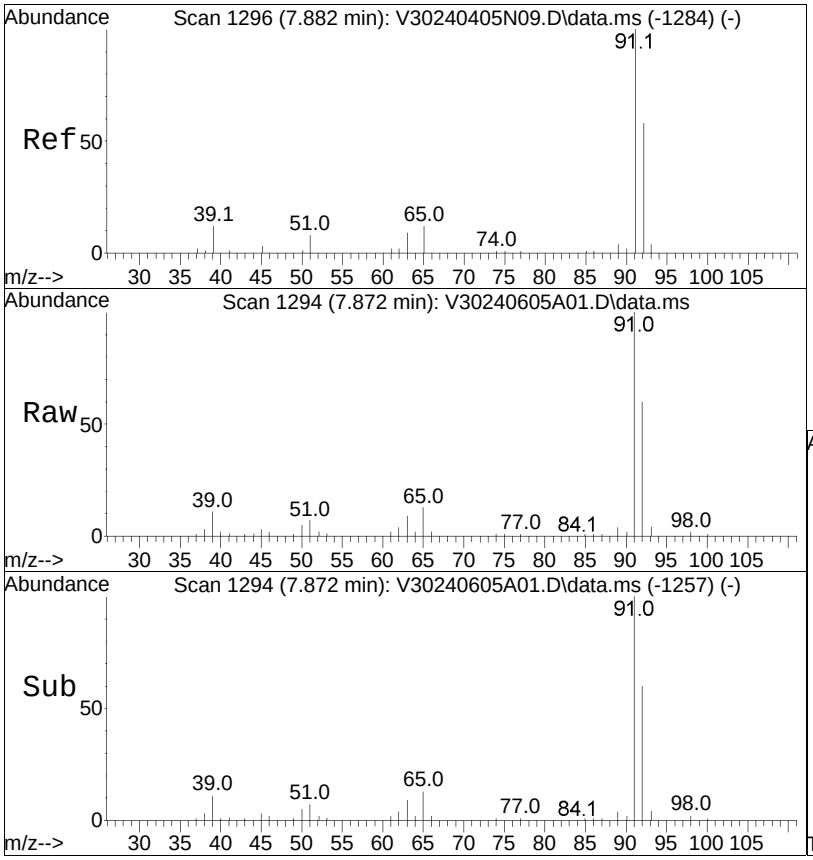


#62
cis-1,3-Dichloropropene
Concen: 9.66 ug/L
RT: 7.599 min Scan# 1242
Delta R.T. -0.005 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 75 Resp: 132036

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.4	38.2
39	52.6	54.6	82.0#

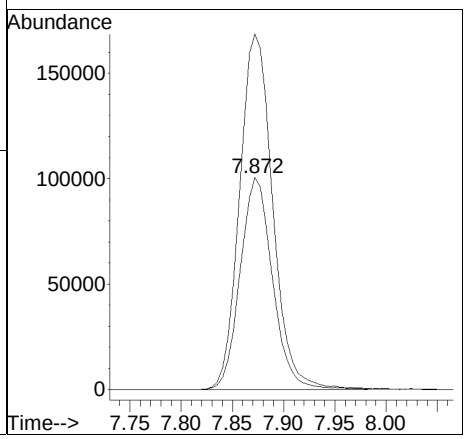


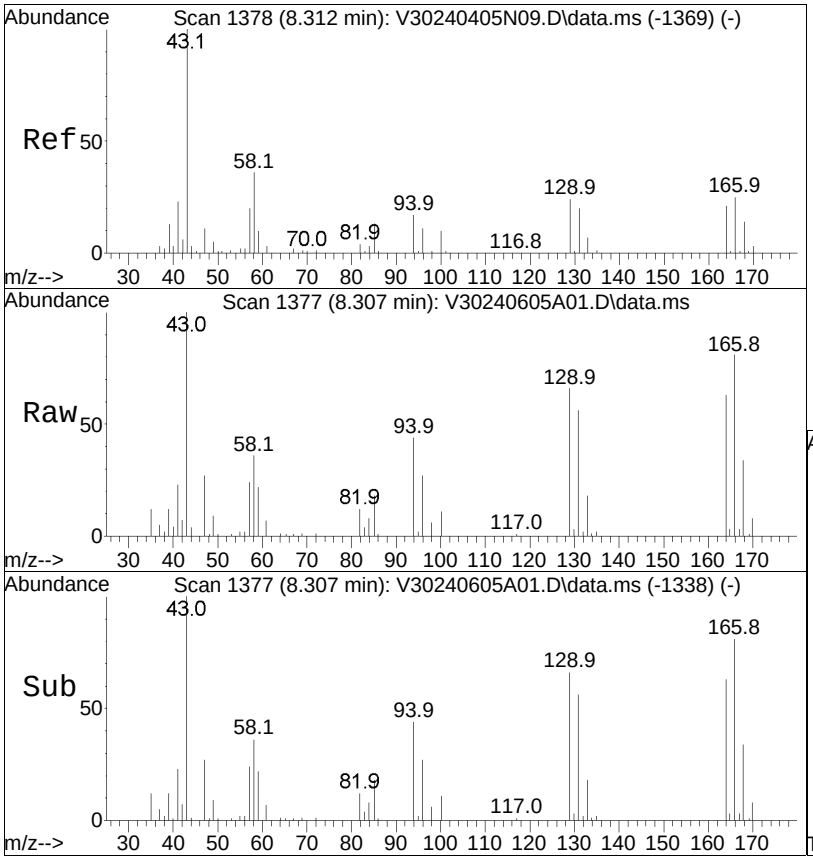


#65
Toluene
Concen: 10.73 ug/L
RT: 7.872 min Scan# 1294
Delta R.T. -0.005 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 92 Resp: 220766

Ion	Ratio	Lower	Upper
92	100		
91	171.5	137.5	206.3

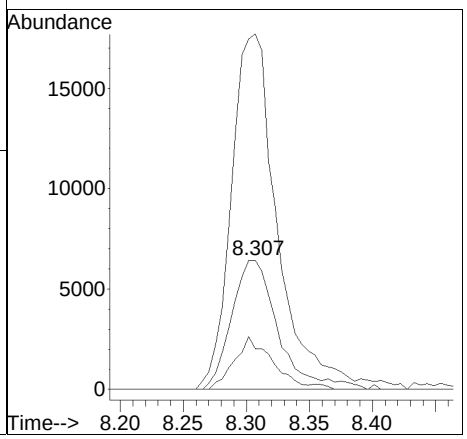


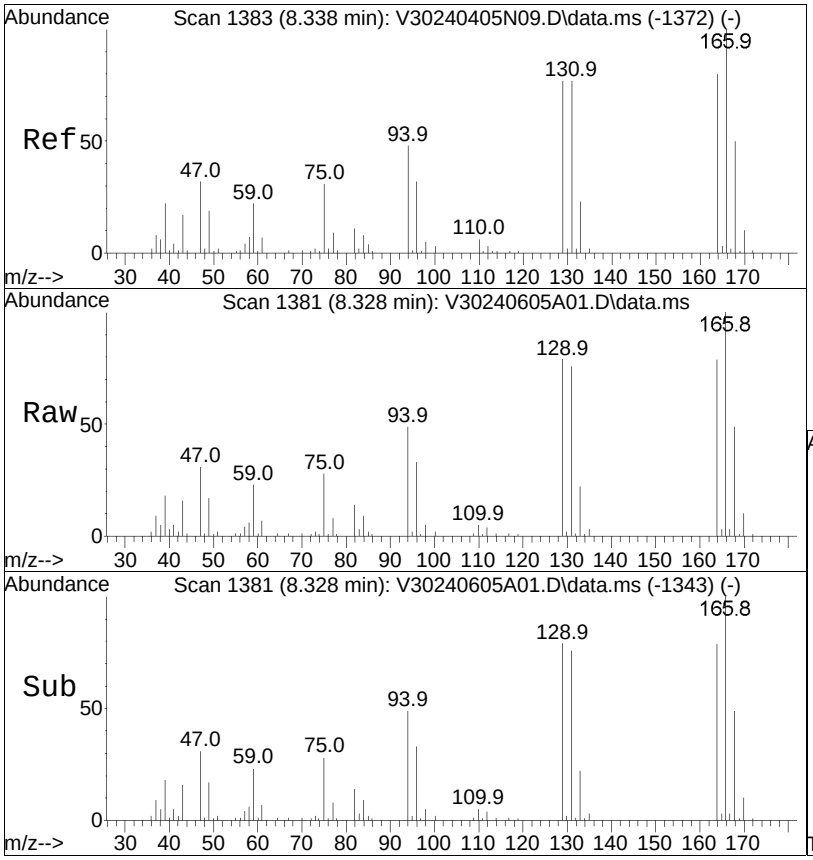


#66
4-Methyl-2-pentanone
Concen: 8.13 ug/L
RT: 8.307 min Scan# 1377
Delta R.T. 0.005 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 58 Resp: 16530

Ion	Ratio	Lower	Upper
58	100		
100	33.2	22.6	34.0
43	275.4	234.6	351.8

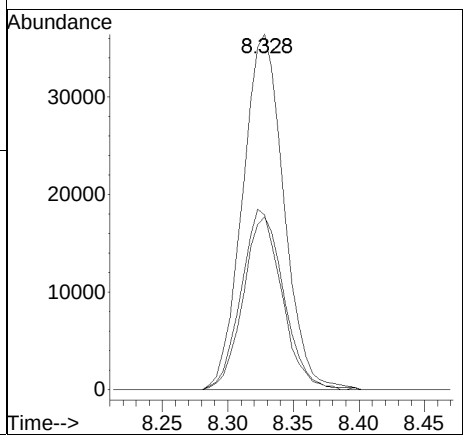


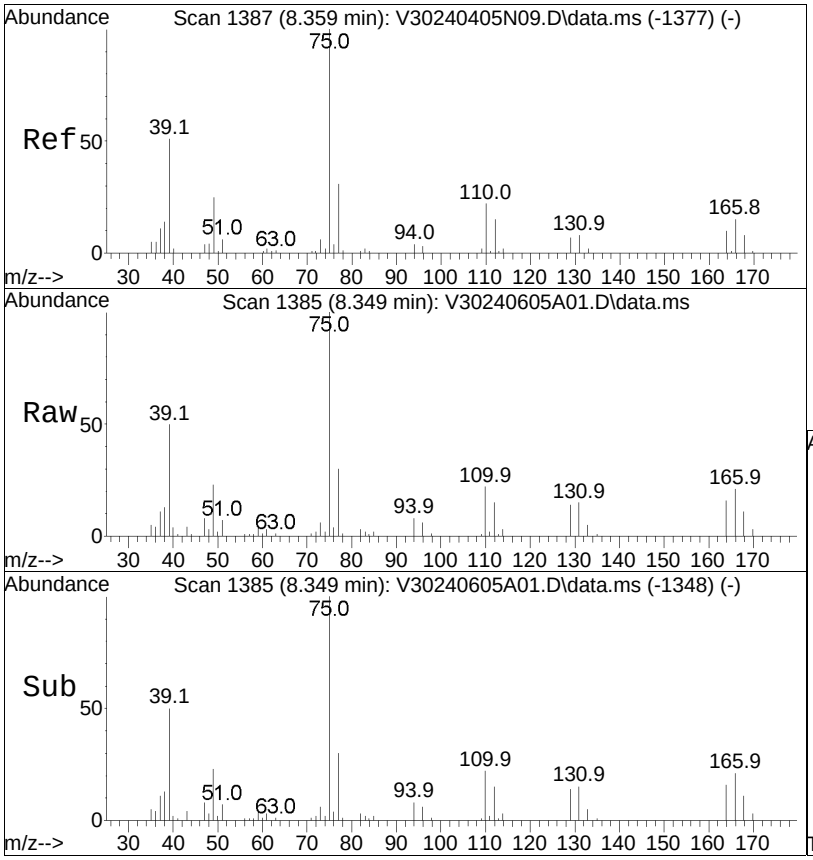


#67
Tetrachloroethene
Concen: 9.43 ug/L
RT: 8.328 min Scan# 1381
Delta R.T. -0.000 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion:166 Resp: 79570

Ion	Ratio	Lower	Upper
166	100		
168	48.6	38.6	58.0
94	49.4	42.6	63.8

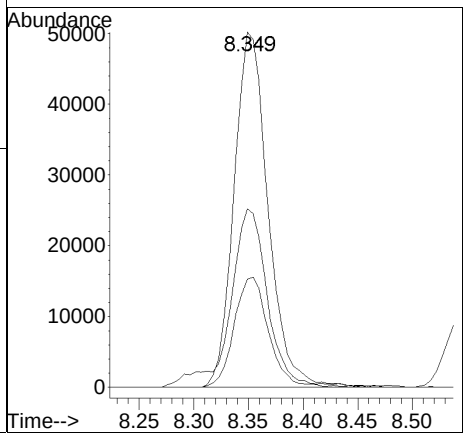


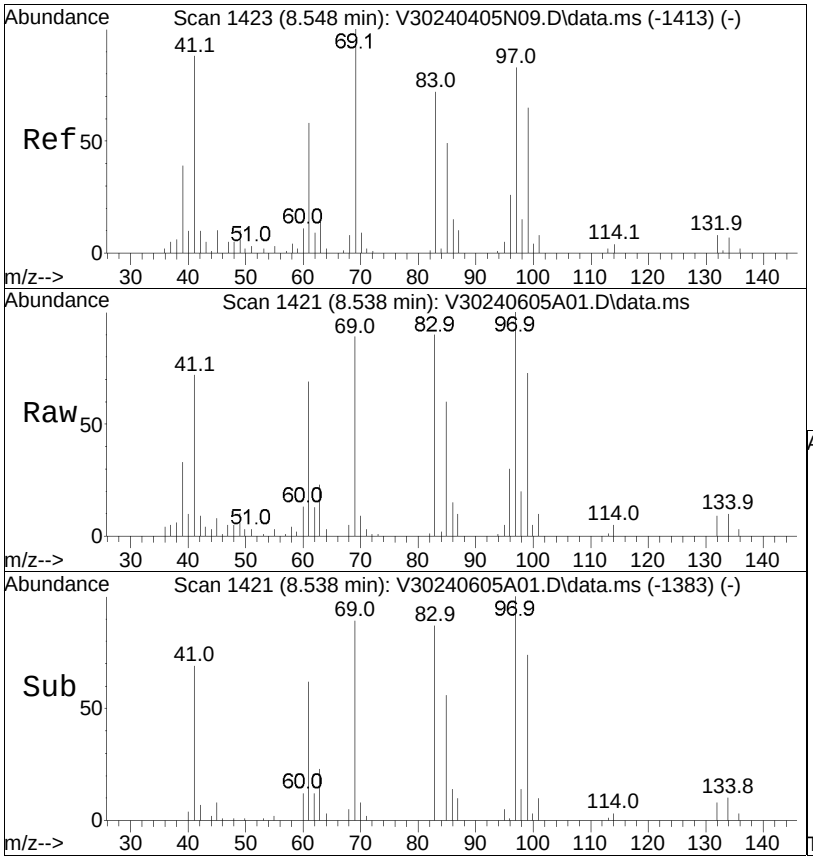


#69
trans-1,3-Dichloropropene
Concen: 9.77 ug/L
RT: 8.349 min Scan# 1385
Delta R.T. -0.005 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 75 Resp: 109068

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.6	38.4
39	55.4	60.2	90.4#

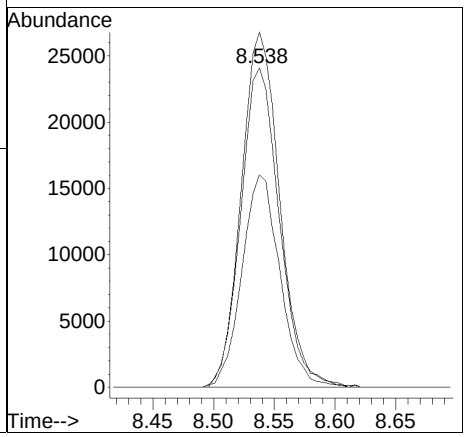


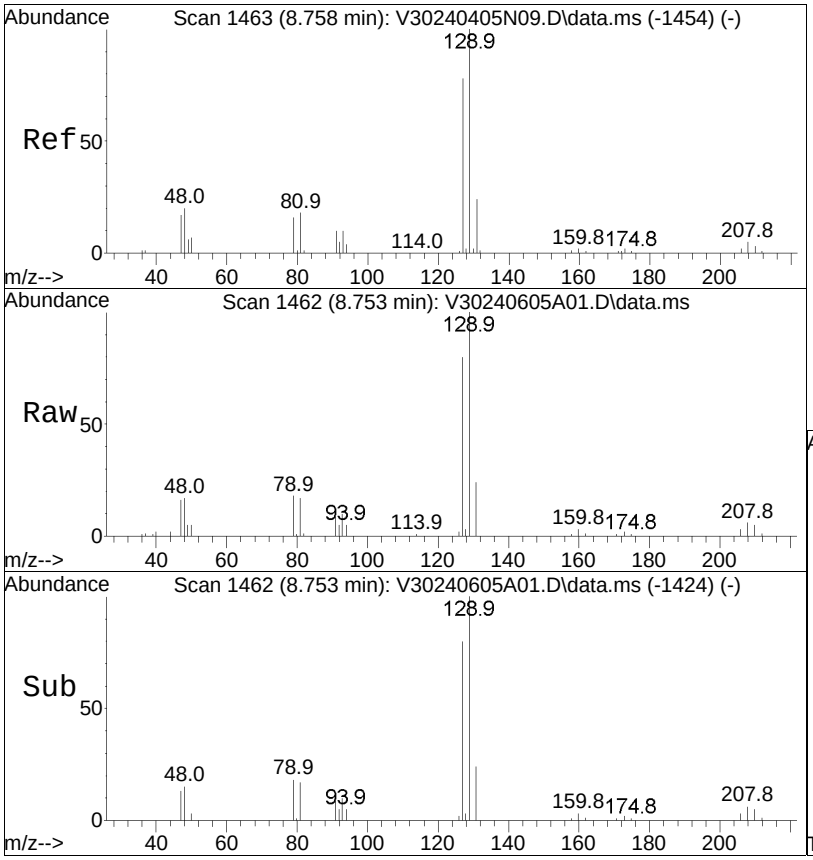


#72
1,1,2-Trichloroethane
Concen: 9.65 ug/L
RT: 8.538 min Scan# 1421
Delta R.T. -0.000 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 83 Resp: 53564

Ion	Ratio	Lower	Upper
83	100		
97	110.6	87.7	131.5
85	65.6	53.1	79.7

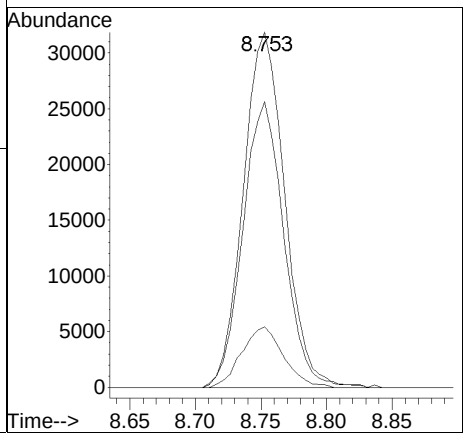


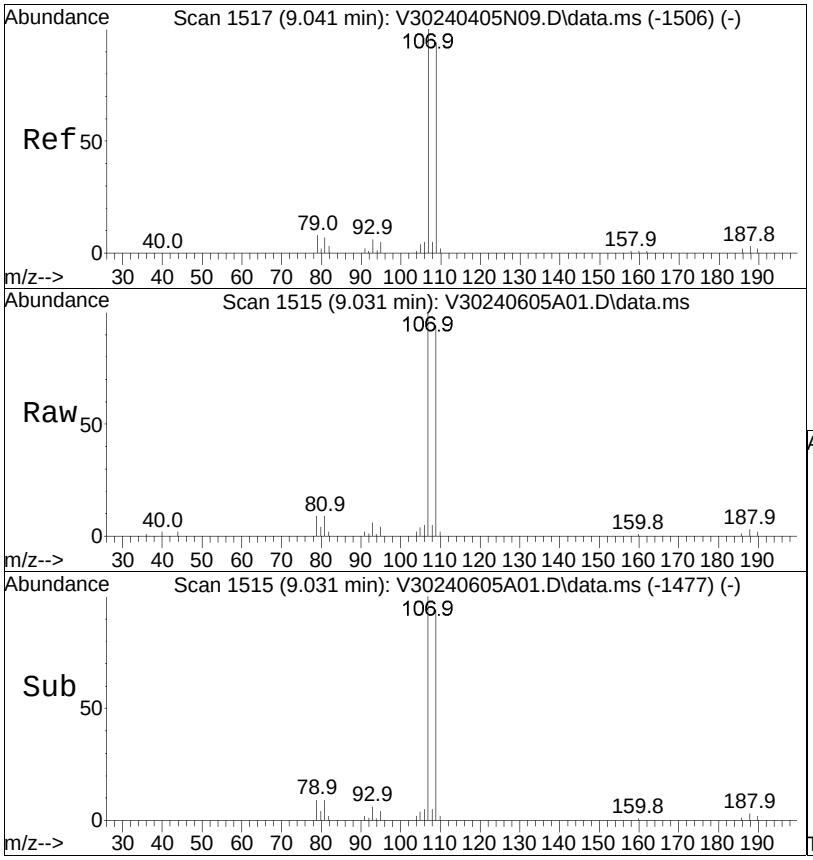


#73
Chlorodibromomethane
Concen: 9.30 ug/L
RT: 8.753 min Scan# 1462
Delta R.T. 0.001 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion:129 Resp: 70054

Ion	Ratio	Lower	Upper
129	100		
81	17.2	14.6	22.0
127	79.6	62.6	93.8

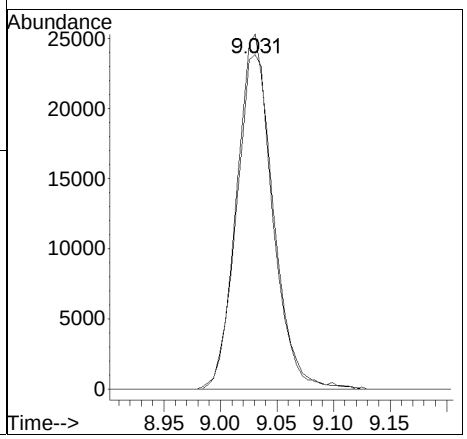


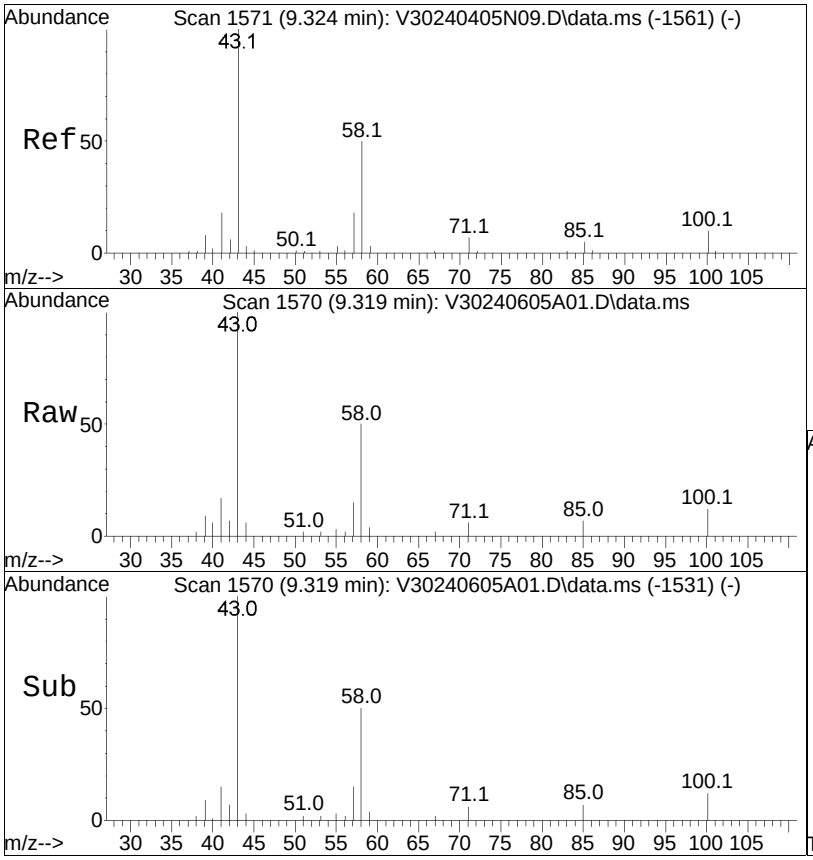


#75
1,2-Dibromoethane
Concen: 8.77 ug/L
RT: 9.031 min Scan# 1515
Delta R.T. 0.001 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion:107 Resp: 56675

Ion	Ratio	Lower	Upper
107	100		
109	95.1	75.0	112.4

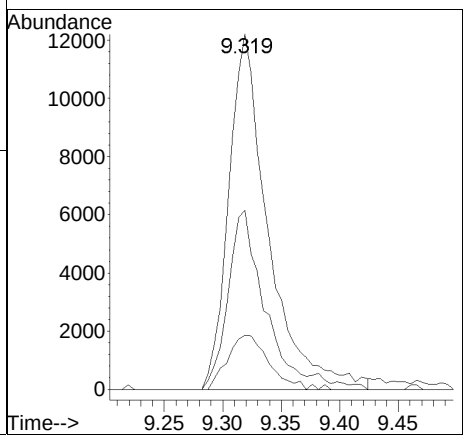


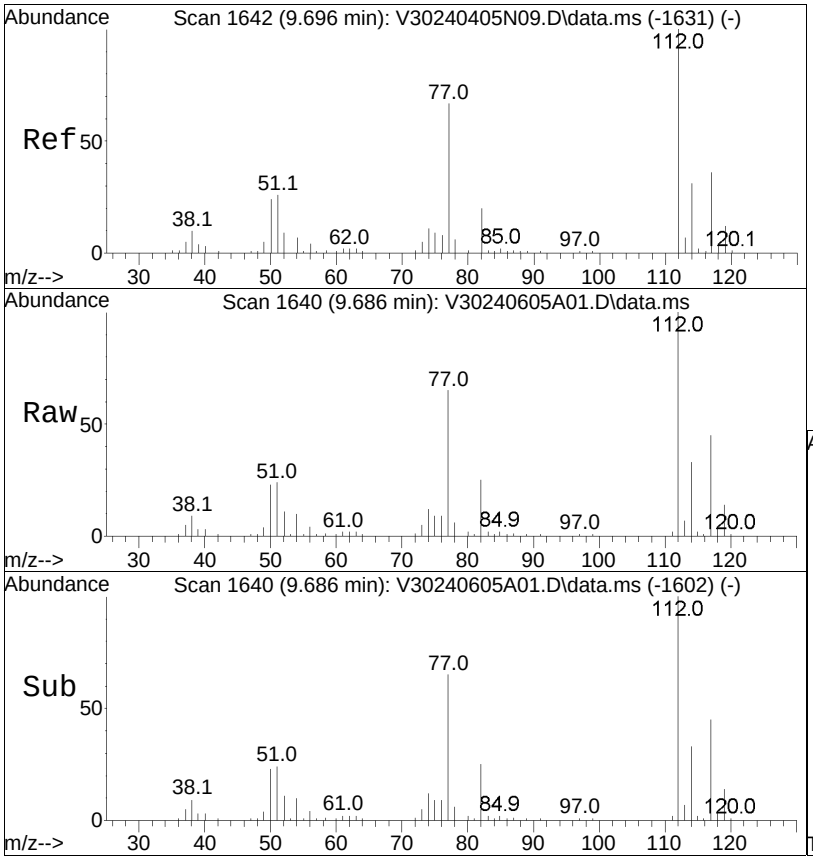


#77
2-Hexanone
Concen: 8.25 ug/L
RT: 9.319 min Scan# 1570
Delta R.T. 0.005 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 43 Resp: 28741

Ion	Ratio	Lower	Upper
43	100		
58	48.1	38.6	58.0
57	16.1	14.1	21.1

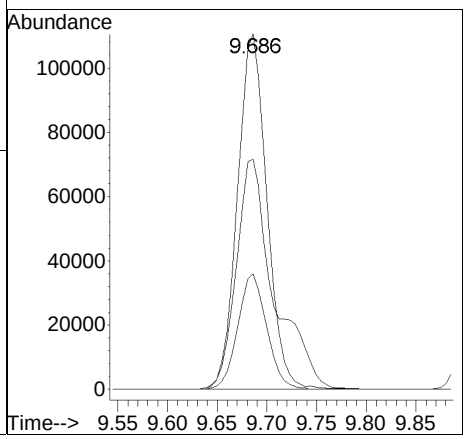


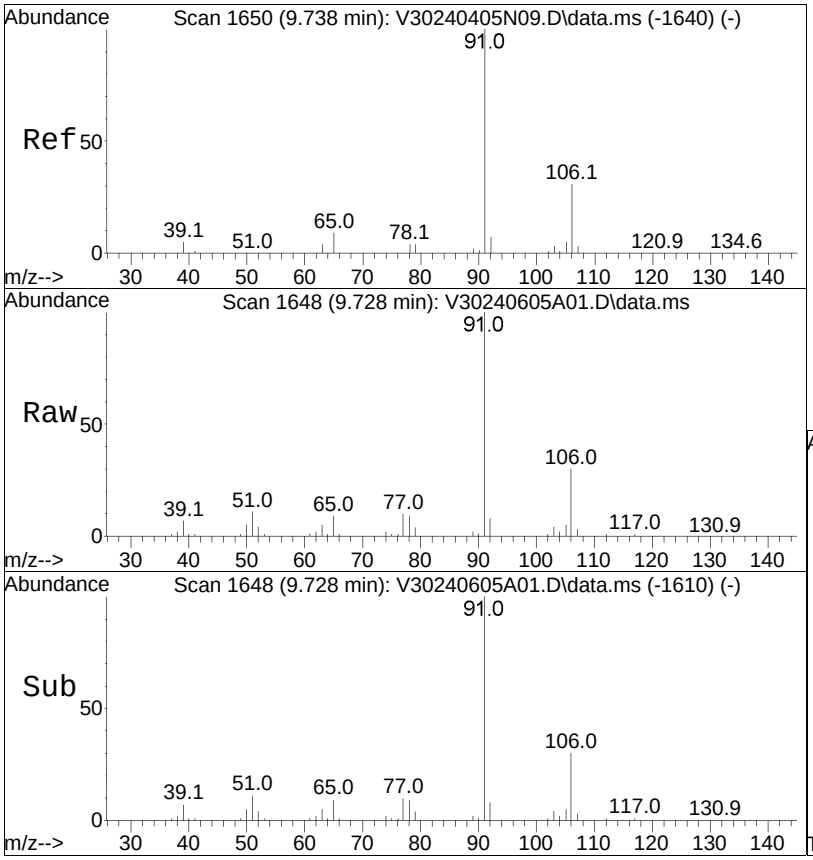


#78
Chlorobenzene
Concen: 10.20 ug/L
RT: 9.686 min Scan# 1640
Delta R.T. -0.000 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion:112 Resp: 227917

Ion	Ratio	Lower	Upper
112	100		
77	83.2	54.8	82.2#
114	32.0	25.4	38.0

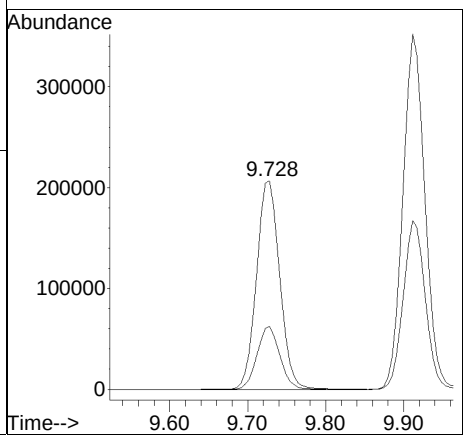


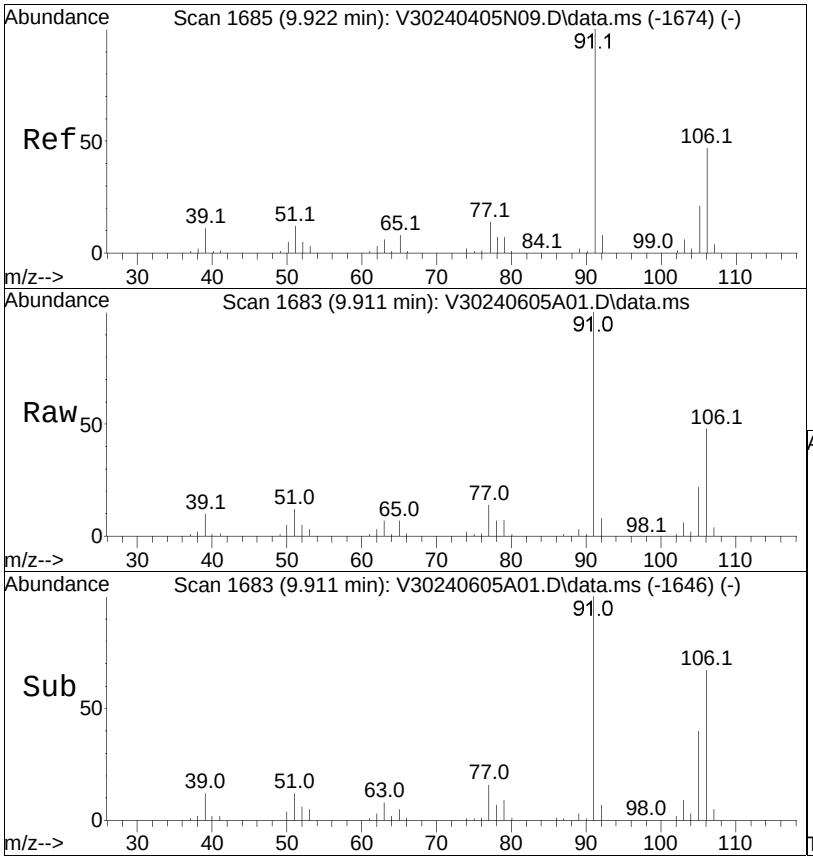


#79
Ethylbenzene
Concen: 11.14 ug/L
RT: 9.728 min Scan# 1648
Delta R.T. -0.000 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 91 Resp: 428052

Ion	Ratio	Lower	Upper
91	100		
106	29.6	23.4	35.2

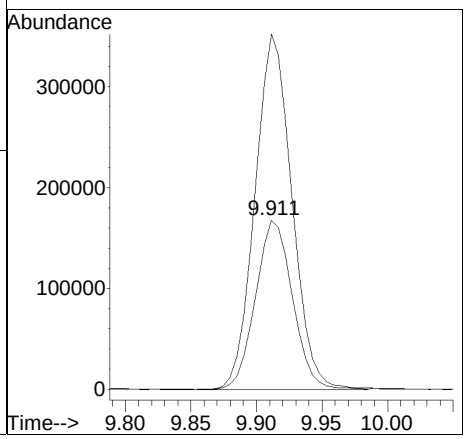


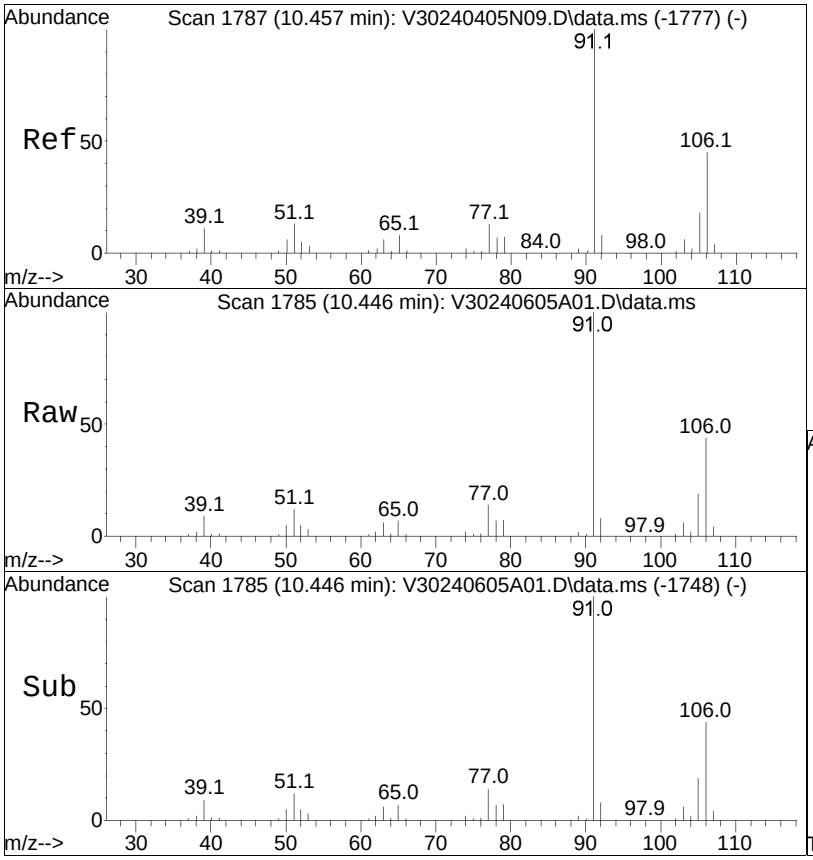


#81
p/m Xylene
Concen: 21.27 ug/L
RT: 9.911 min Scan# 1683
Delta R.T. -0.005 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion:106 Resp: 328743

Ion	Ratio	Lower	Upper
106	100		
91	210.3	171.4	257.2

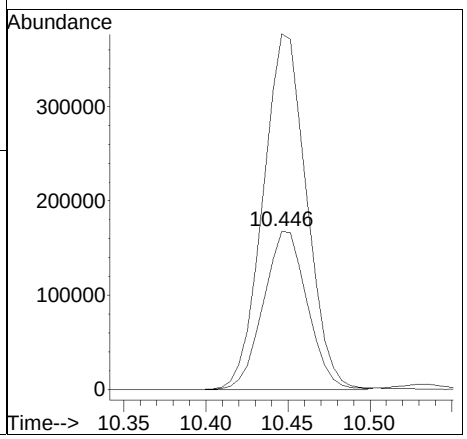


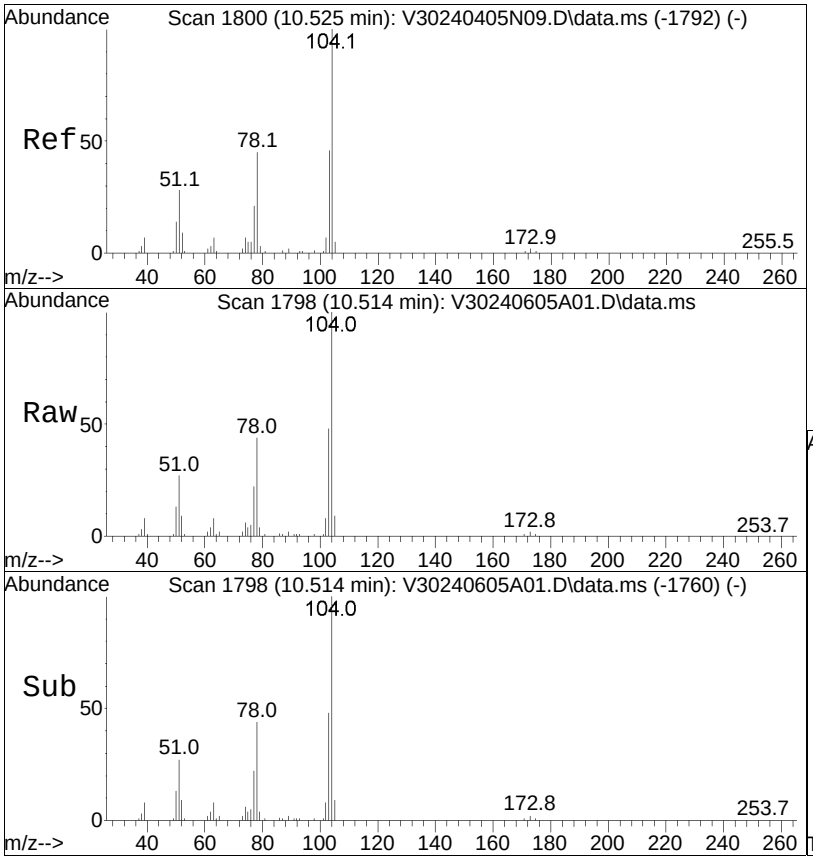


#82
o Xylene
Concen: 20.70 ug/L
RT: 10.446 min Scan# 1785
Delta R.T. -0.005 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion:106 Resp: 311348

Ion	Ratio	Lower	Upper
106	100		
91	223.7	179.2	268.8

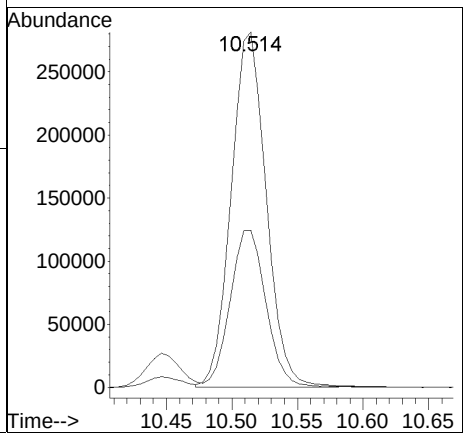


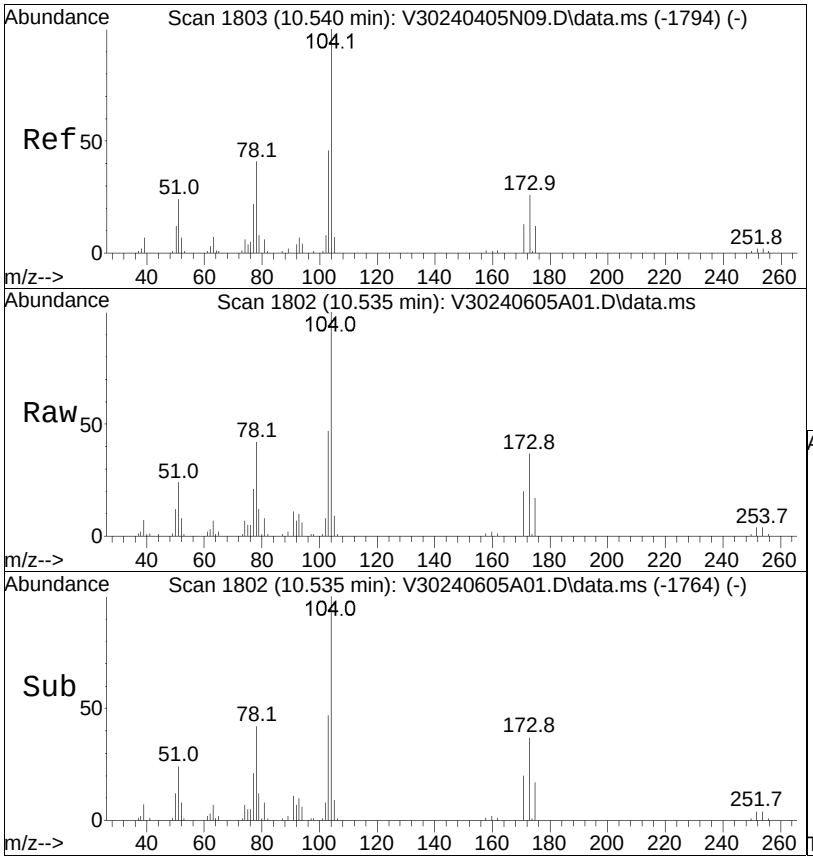


#83
Styrene
Concen: 21.11 ug/L
RT: 10.514 min Scan# 1798
Delta R.T. 0.000 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion:104 Resp: 521834

Ion	Ratio	Lower	Upper
104	100		
78	45.3	38.1	57.1

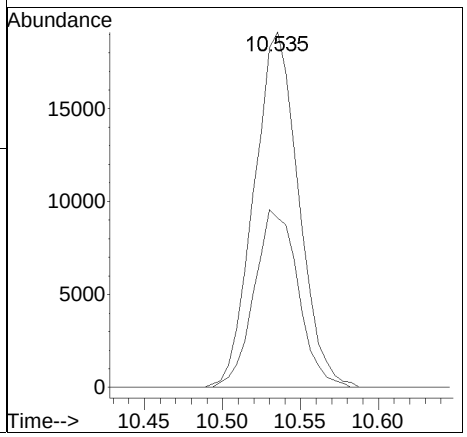


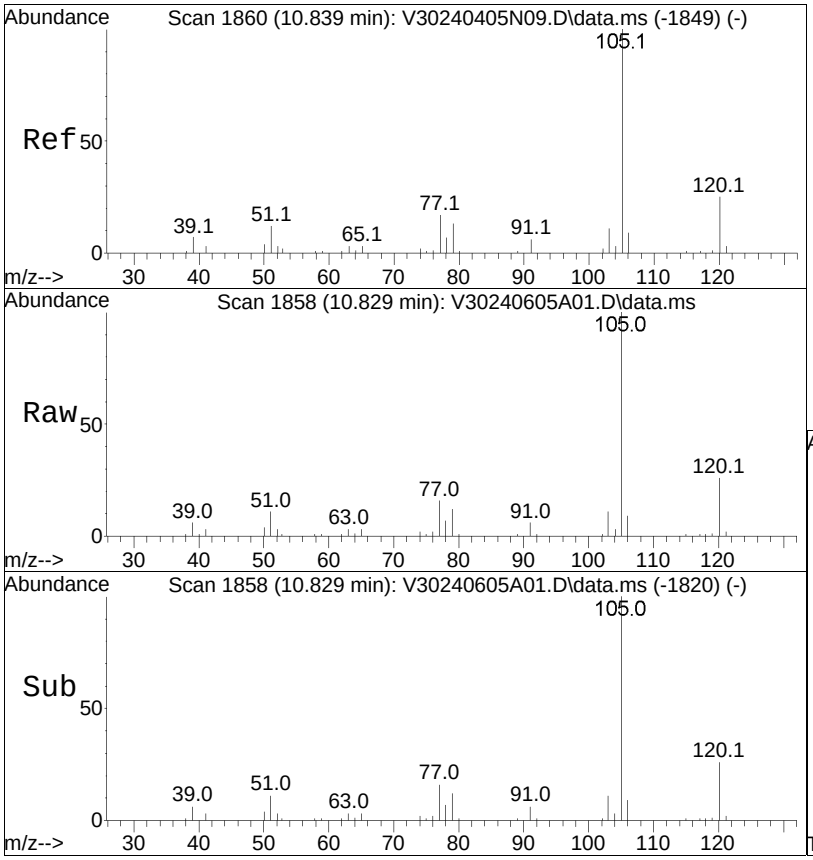


#85
Bromoform
Concen: 8.58 ug/L
RT: 10.535 min Scan# 1802
Delta R.T. 0.000 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion:173 Resp: 38104

Ion	Ratio	Lower	Upper
173	100		
175	49.1	37.8	56.6

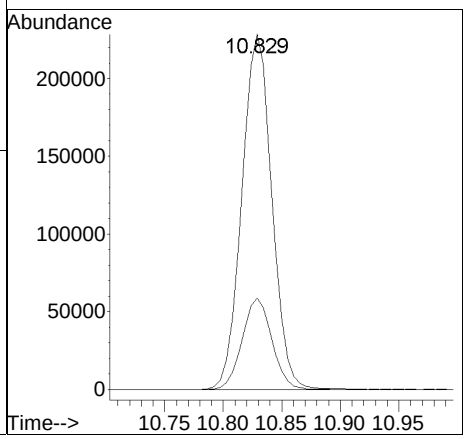


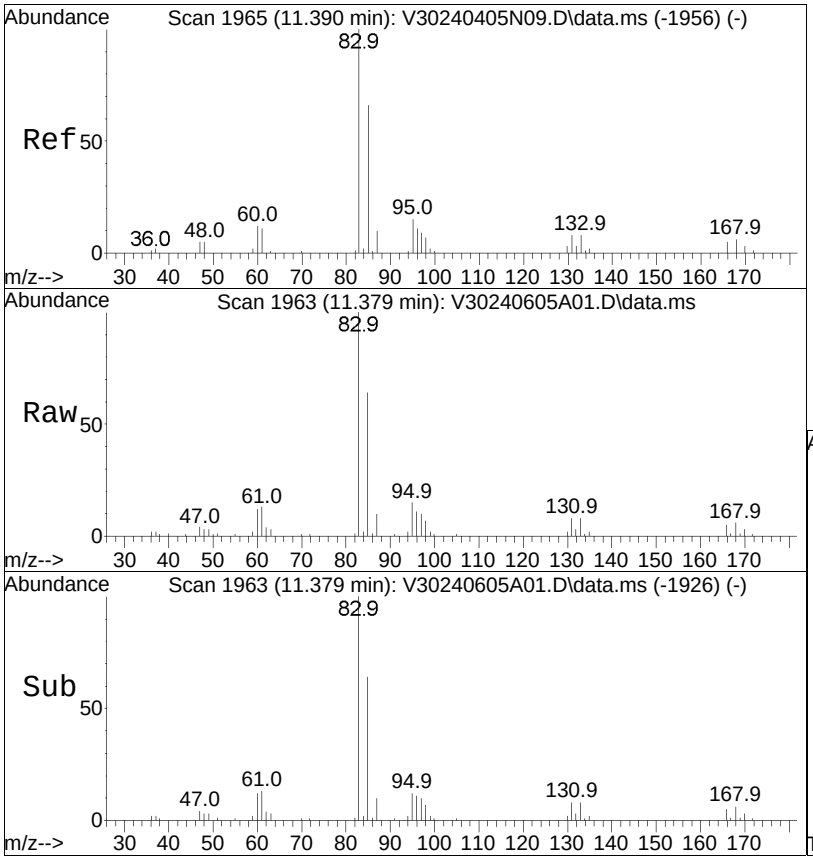


#87
Isopropylbenzene
Concen: 10.90 ug/L
RT: 10.829 min Scan# 1858
Delta R.T. -0.000 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion:105 Resp: 406639

Ion	Ratio	Lower	Upper
105	100		
120	25.4	20.0	30.0

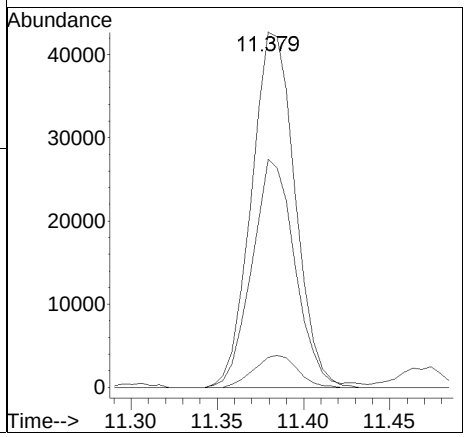


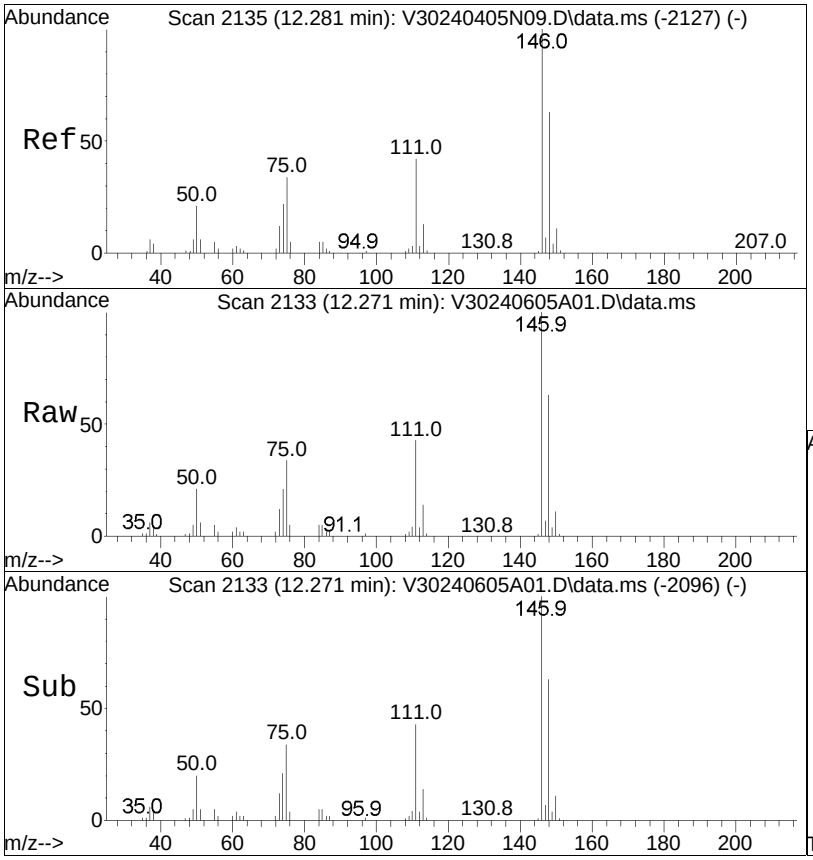


#92
1,1,2,2-Tetrachloroethane
Concen: 9.78 ug/L
RT: 11.379 min Scan# 1963
Delta R.T. -0.006 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion: 83 Resp: 74927

Ion	Ratio	Lower	Upper
83	100		
131	9.0	6.6	10.0
85	64.0	51.8	77.6

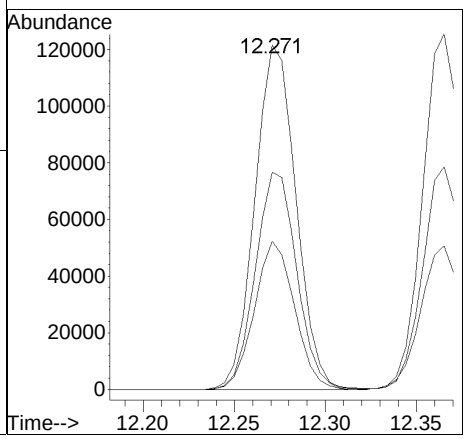


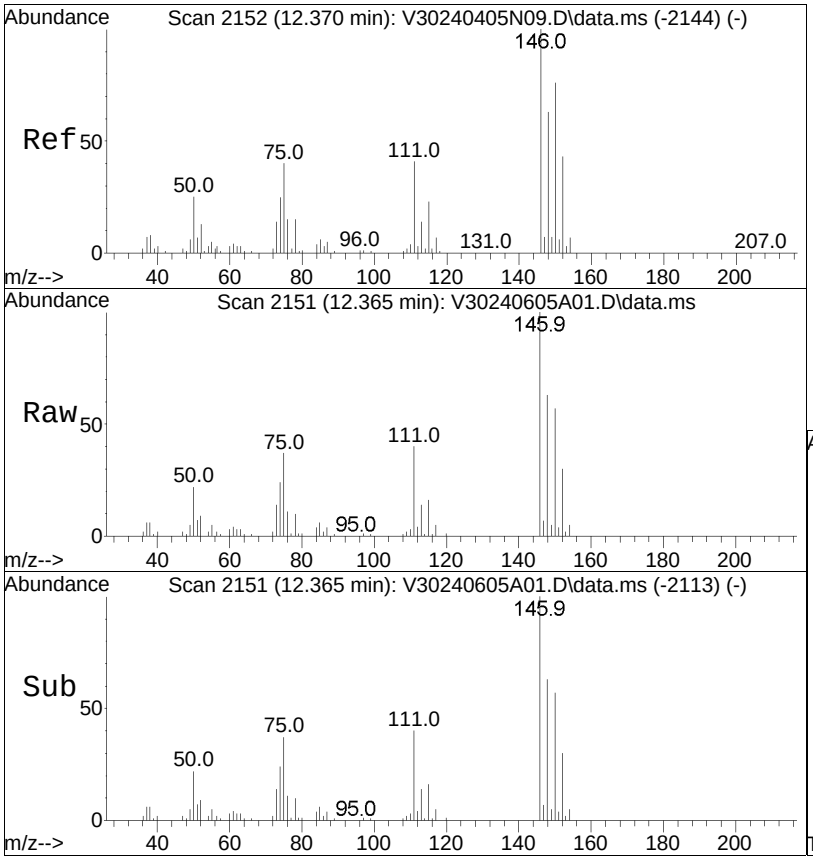


#105
1,3-Dichlorobenzene
Concen: 10.28 ug/L
RT: 12.271 min Scan# 2133
Delta R.T. -0.005 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion:146 Resp: 190870

Ion	Ratio	Lower	Upper
146	100		
111	41.9	28.0	58.1
148	63.3	40.8	84.6

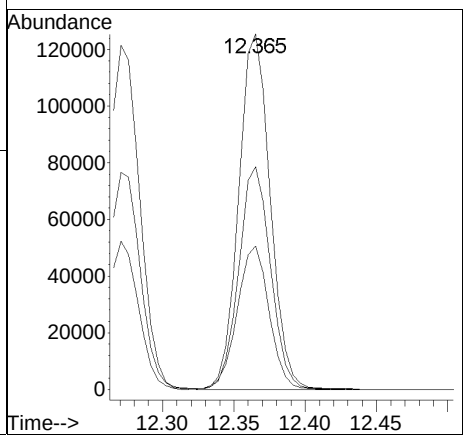


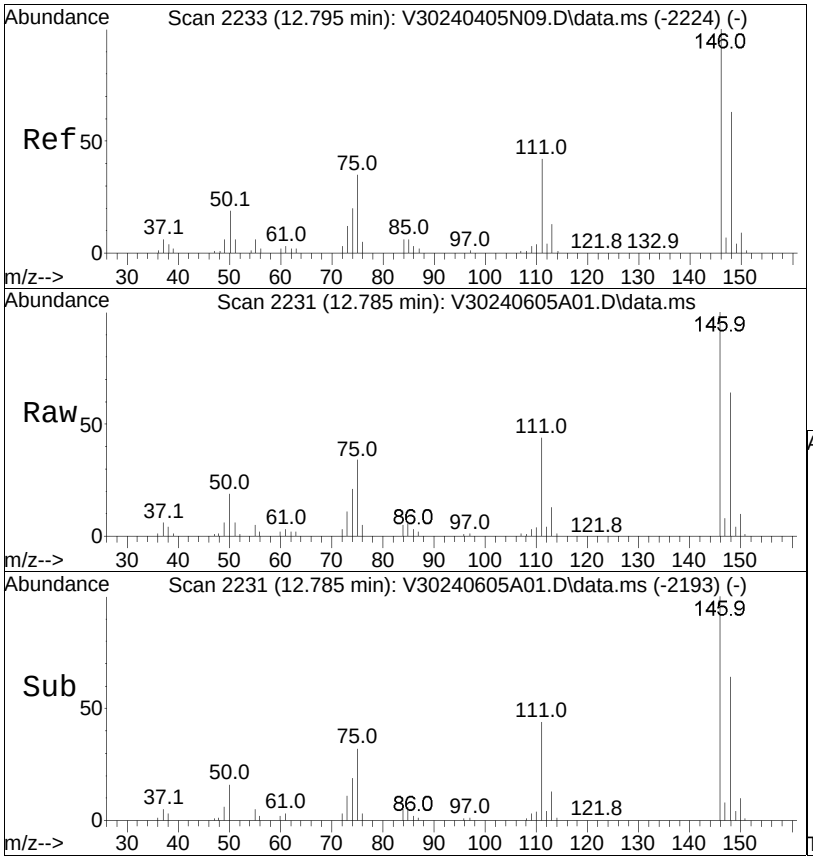


#106
1,4-Dichlorobenzene
Concen: 10.19 ug/L
RT: 12.365 min Scan# 2151
Delta R.T. 0.000 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion:146 Resp: 192937

Ion	Ratio	Lower	Upper
146	100		
111	41.0	33.7	50.5
148	63.4	50.8	76.2

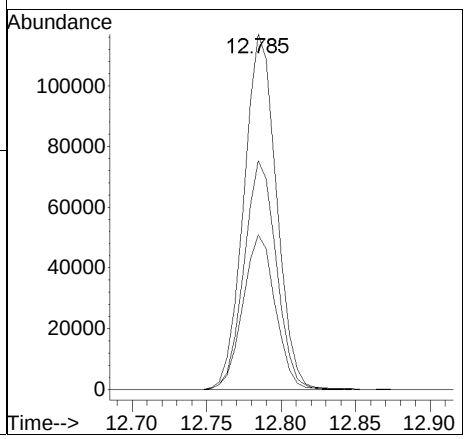


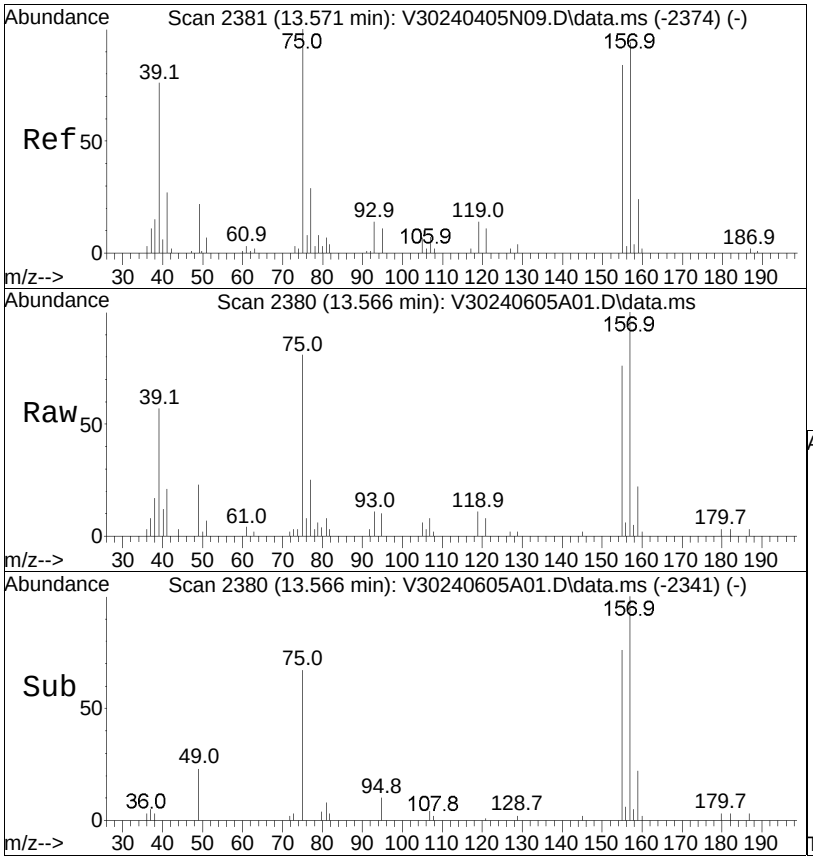


#109
1,2-Dichlorobenzene
Concen: 9.95 ug/L
RT: 12.785 min Scan# 2231
Delta R.T. 0.001 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion:146 Resp: 178306

Ion	Ratio	Lower	Upper
146	100		
111	43.1	29.5	61.3
148	63.5	41.3	85.9

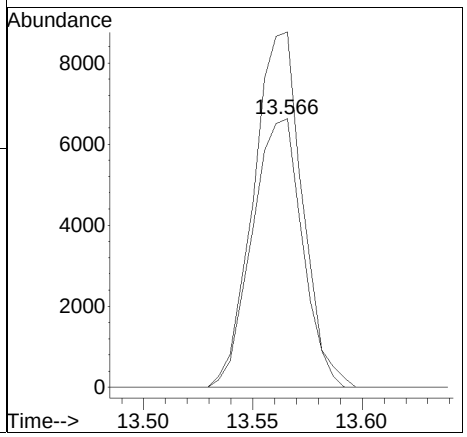


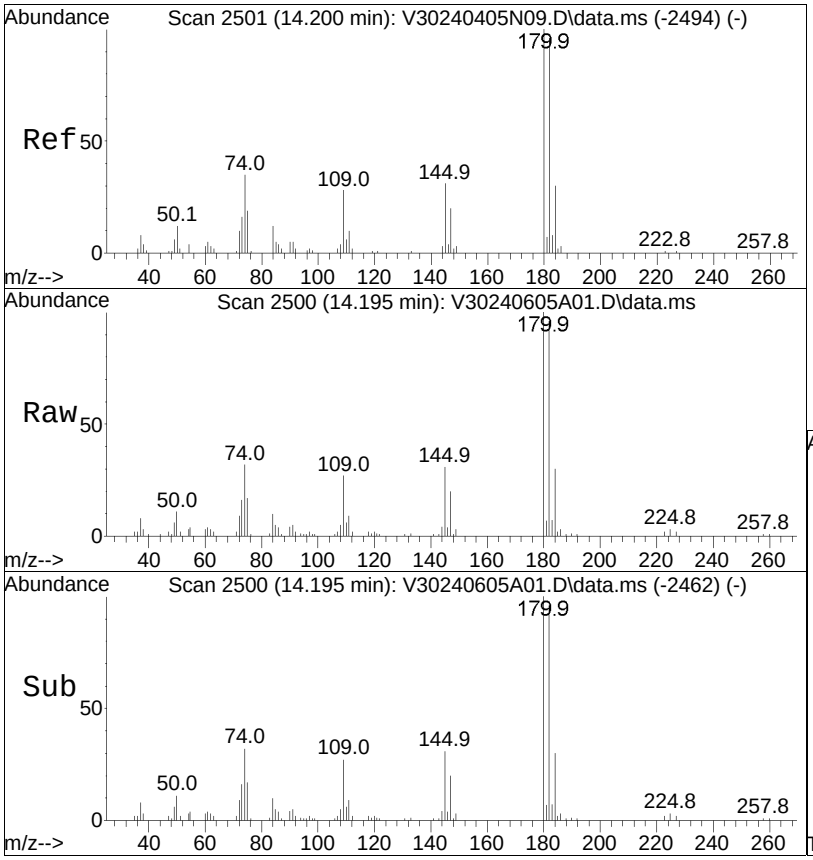


#111
1,2-Dibromo-3-chloropropane
Concen: 8.08 ug/L
RT: 13.566 min Scan# 2380
Delta R.T. 0.006 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion:155 Resp: 10717

Ion	Ratio	Lower	Upper
155	100		
157	125.9	105.1	157.7

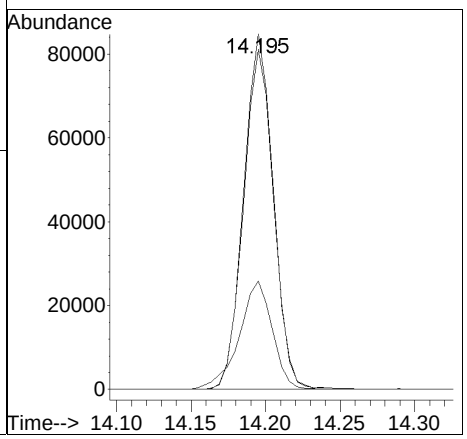


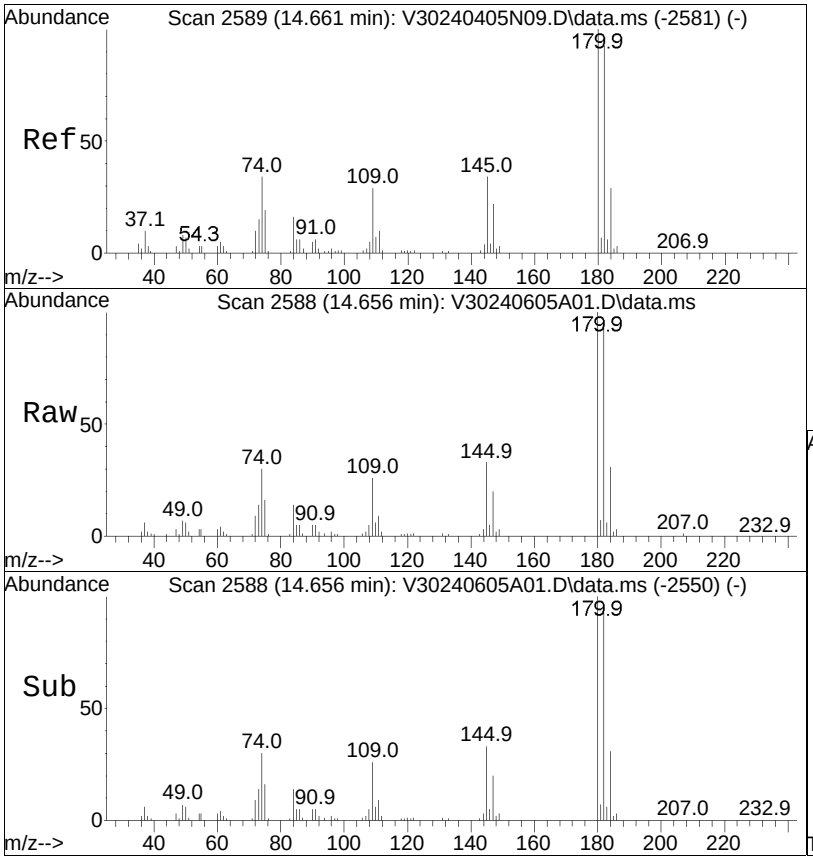


#114
1,2,4-Trichlorobenzene
Concen: 9.74 ug/L
RT: 14.195 min Scan# 2500
Delta R.T. -0.000 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion:180 Resp: 117601

Ion	Ratio	Lower	Upper
180	100		
182	97.0	75.7	113.5
145	33.9	27.4	41.2

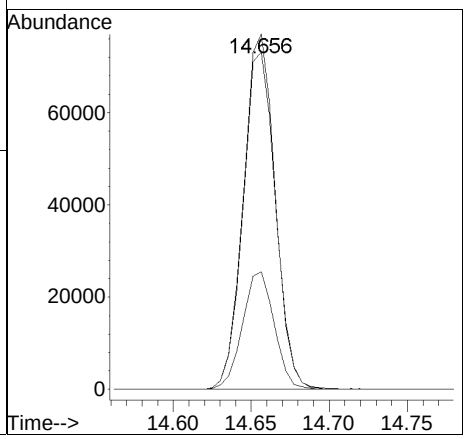




#116
1,2,3-Trichlorobenzene
Concen: 9.49 ug/L
RT: 14.656 min Scan# 2588
Delta R.T. 0.000 min
Lab File: V30240605A01.D
Acq: 05 Jun 2024 06:45 am

Tgt Ion:180 Resp: 109158

Ion	Ratio	Lower	Upper
180	100		
182	96.6	74.9	112.3
145	33.1	26.0	39.0

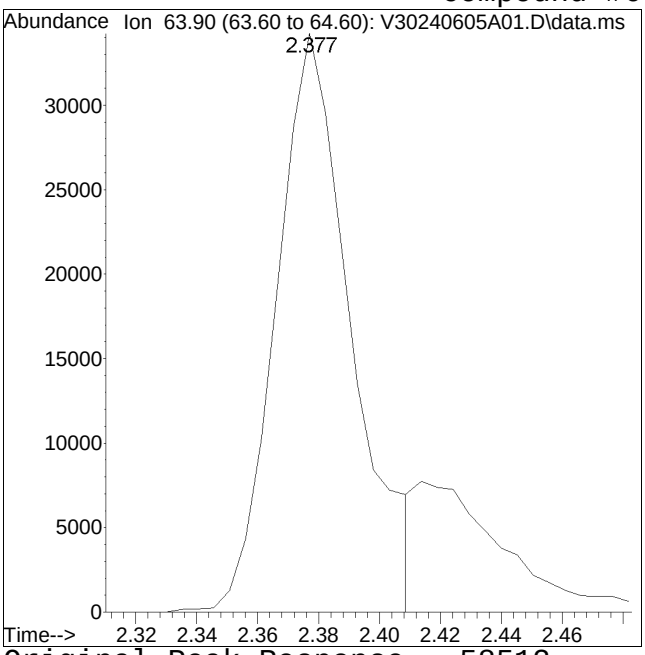


Manual Integration Report

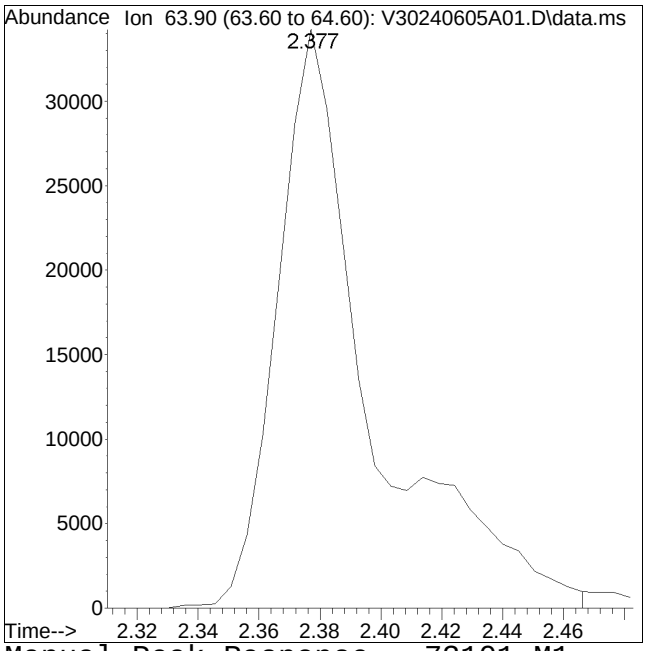
Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A01.D
Date Inj'd : 6/5/2024 6:45 am
Sample : WG1930005-3,31,10,10

QMethod : V130_240429A_8260D.m
Operator : VOA130:PID
Instrument : VOA130
Quant Date : 6/5/2024 7:07 am

Compound #6: Chloroethane



Original Peak Response = 58512



Manual Peak Response = 73101 M1

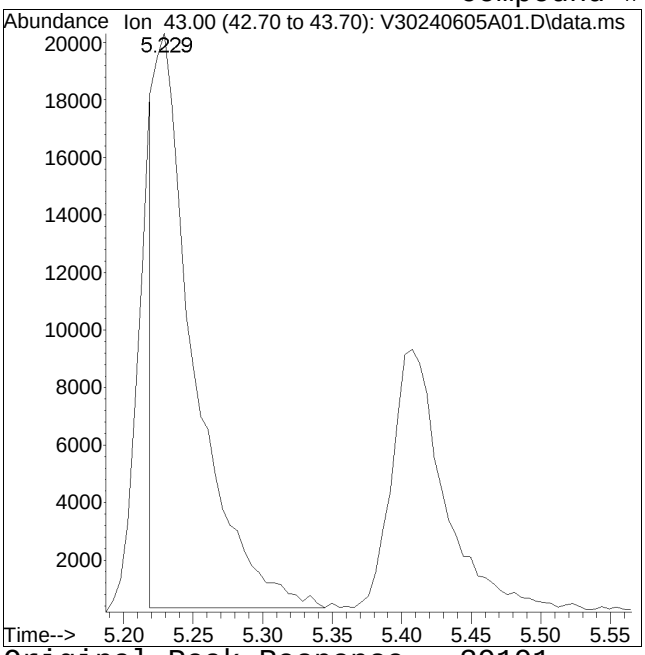
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

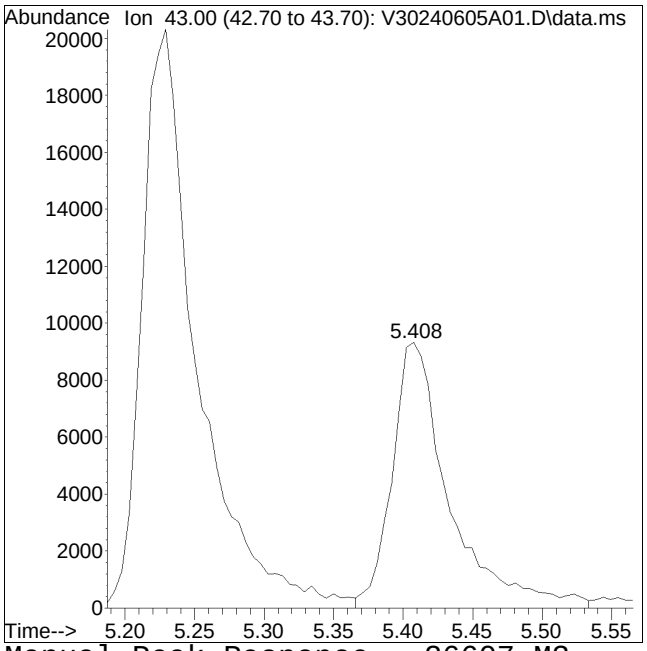
Manual Integration Report

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A01.D
Date Inj'd : 6/5/2024 6:45 am
Sample : WG1930005-3,31,10,10

QMethod : V130_240429A_8260D.m
Operator : VOA130:PID
Instrument : VOA130
Quant Date : 6/5/2024 7:07 am

Compound #42: 2-Butanone





Original Peak Response = 39191 Manual Peak Response = 26607 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A02.D
Acq On : 05 Jun 2024 07:07 am
Operator : VOA130:PID
Sample : WG1930005-4,31,10,10
Misc : WG1930005,ICAL21085
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 07:43:36 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240605A\V30240605A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.115	96	513735	10.000	ug/L	0.00
Standard Area 1 = 517502			Recovery = 99.27%			
63) Chlorobenzene-d5	9.665	117	391999	10.000	ug/L	0.00
Standard Area 1 = 376477			Recovery = 104.12%			
84) 1,4-Dichlorobenzene-d4	12.349	152	220522	10.000	ug/L	0.00
Standard Area 1 = 209535			Recovery = 105.24%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.298	113	151861	10.313	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.13%			
47) 1,2-Dichloroethane-d4	5.822	65	186569	11.837	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 118.37%			
64) Toluene-d8	7.814	98	519807	10.113	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.13%			
88) 4-Bromofluorobenzene	11.144	95	201412	10.063	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.63%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.680	85	94780	9.897	ug/L	96
3) Chloromethane	1.874	50	110268	11.331	ug/L	97
4) Vinyl chloride	1.947	62	107704	10.506	ug/L	100
5) Bromomethane	2.267	94	46805	8.081	ug/L	99
6) Chloroethane	2.377	64	68524	10.757	ug/L	98
7) Trichlorofluoromethane	2.529	101	137215	11.441	ug/L	99
10) 1,1-Dichloroethene	3.027	96	77560	9.165	ug/L	85
11) Carbon disulfide	3.059	76	240131	10.422	ug/L	100
12) Freon-113	3.069	101	81236	9.718	ug/L	95
15) Methylene chloride	3.588	84	98792	10.133	ug/L	91
17) Acetone	3.625	43	20699	10.431	ug/L	92
18) trans-1,2-Dichloroethene	3.746	96	85130	9.376	ug/L	91
19) Methyl acetate	3.746	43	48067	10.971	ug/L #	92
21) Methyl tert-butyl ether	3.845	73	176495	8.702	ug/L	96
25) 1,1-Dichloroethane	4.328	63	188720	11.050	ug/L	99
30) cis-1,2-Dichloroethene	4.852	96	97667	9.284	ug/L	89
33) Bromochloromethane	5.046	128	43189	8.999	ug/L #	77
34) Cyclohexane	5.062	56	152513	10.317	ug/L	96
35) Chloroform	5.119	83	179489	10.881	ug/L	94
37) Carbon tetrachloride	5.261	117	115335	10.372	ug/L	89

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A02.D
Acq On : 05 Jun 2024 07:07 am
Operator : VOA130:PID
Sample : WG1930005-4,31,10,10
Misc : WG1930005,ICAL21085
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 07:43:36 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240605A\V30240605A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) 1,1,1-Trichloroethane	5.329	97	137212	10.016	ug/L		95
42) 2-Butanone	5.413	43	24271	9.382	ug/L		95
45) Benzene	5.696	78	331450	10.003	ug/L		98
48) 1,2-Dichloroethane	5.890	62	119433	10.364	ug/L	#	98
51) Methyl cyclohexane	6.294	83	118974	8.755	ug/L		94
52) Trichloroethene	6.294	95	78543	8.601	ug/L		97
55) 1,2-Dichloropropane	6.839	63	88963	10.152	ug/L		97
58) Bromodichloromethane	6.907	83	118864	9.826	ug/L	#	98
61) 1,4-Dioxane	7.112	88	30195	407.974	ug/L		94
62) cis-1,3-Dichloropropene	7.604	75	123753	9.119	ug/L	#	86
65) Toluene	7.872	92	202871	9.474	ug/L		99
66) 4-Methyl-2-pentanone	8.307	58	18760	8.860	ug/L		93
67) Tetrachloroethene	8.328	166	72213	8.223	ug/L		98
69) trans-1,3-Dichloropropene	8.354	75	103228	8.880	ug/L	#	79
72) 1,1,2-Trichloroethane	8.538	83	51920	8.982	ug/L		98
73) Chlorodibromomethane	8.753	129	68289	8.731	ug/L		99
75) 1,2-Dibromoethane	9.031	107	58028	8.623	ug/L		97
77) 2-Hexanone	9.319	43	33119	9.129	ug/L		96
78) Chlorobenzene	9.686	112	215841	9.280	ug/L		100
79) Ethylbenzene	9.728	91	398920	9.970	ug/L		99
81) p/m Xylene	9.917	106	309302	19.219	ug/L		95
82) o Xylene	10.446	106	293856	18.760	ug/L		98
83) Styrene	10.509	104	487248	18.935	ug/L		96
85) Bromoform	10.535	173	38776	8.296	ug/L		100
87) Isopropylbenzene	10.829	105	375372	9.564	ug/L		98
92) 1,1,2,2-Tetrachloroethane	11.385	83	78801	9.778	ug/L		99
105) 1,3-Dichlorobenzene	12.271	146	177124	9.066	ug/L		98
106) 1,4-Dichlorobenzene	12.365	146	178105	8.942	ug/L		99
109) 1,2-Dichlorobenzene	12.785	146	167786	8.894	ug/L		98
111) 1,2-Dibromo-3-chloropr...	13.561	155	11199	8.023	ug/L		98
114) 1,2,4-Trichlorobenzene	14.195	180	109989	8.659	ug/L		100
116) 1,2,3-Trichlorobenzene	14.656	180	104497	8.632	ug/L		99

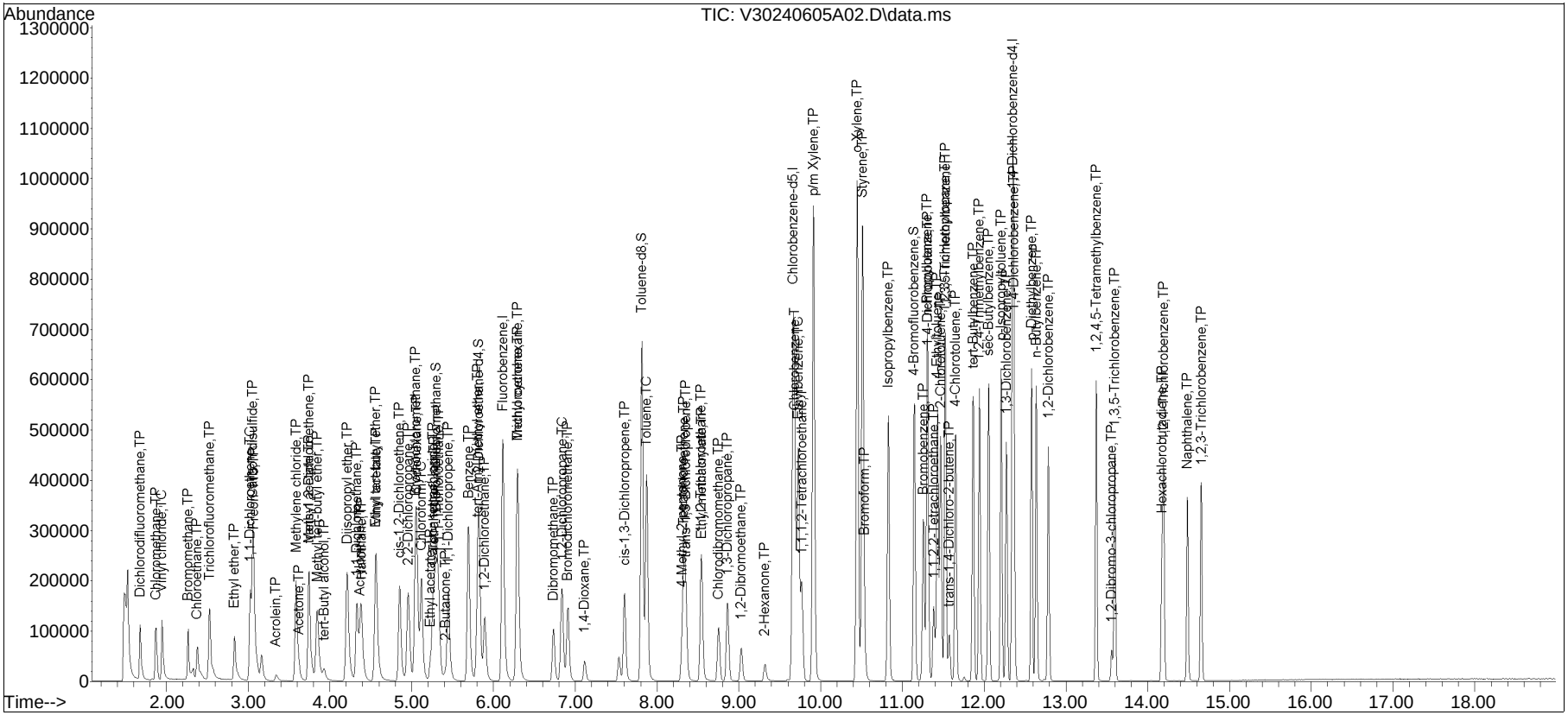
(#) = qualifier out of range (m) = manual integration (+) = signals summed

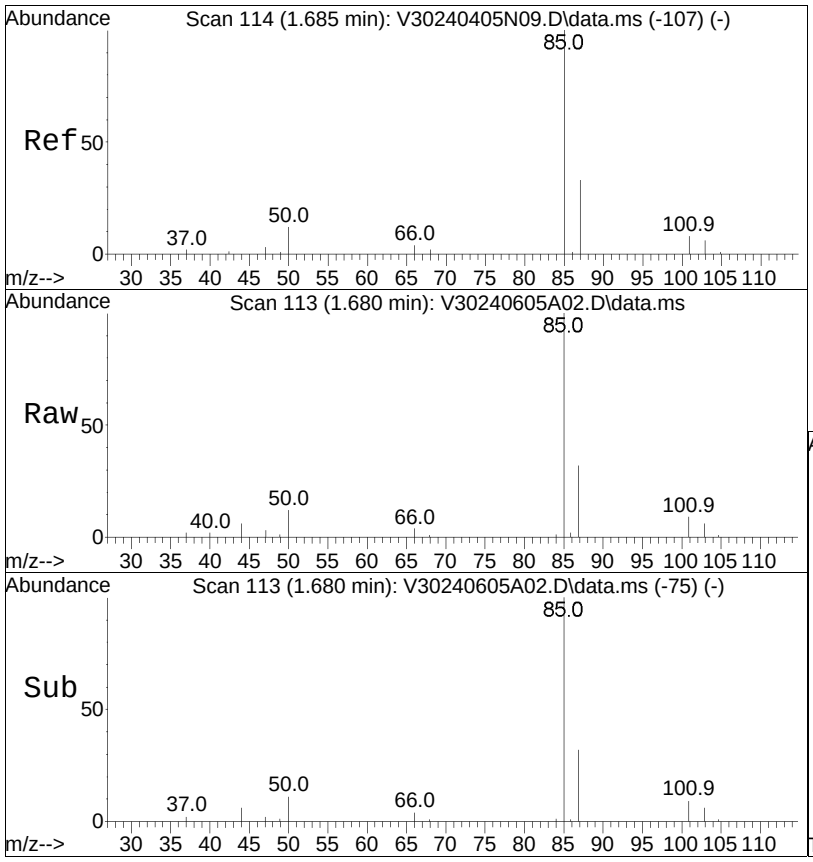
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A02.D
Acq On : 05 Jun 2024 07:07 am
Operator : VOA130:PID
Sample : WG1930005-4,31,10,10
Misc : WG1930005,ICAL21085
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 07:43:36 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

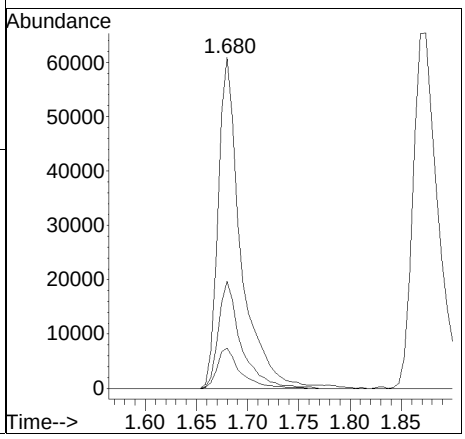


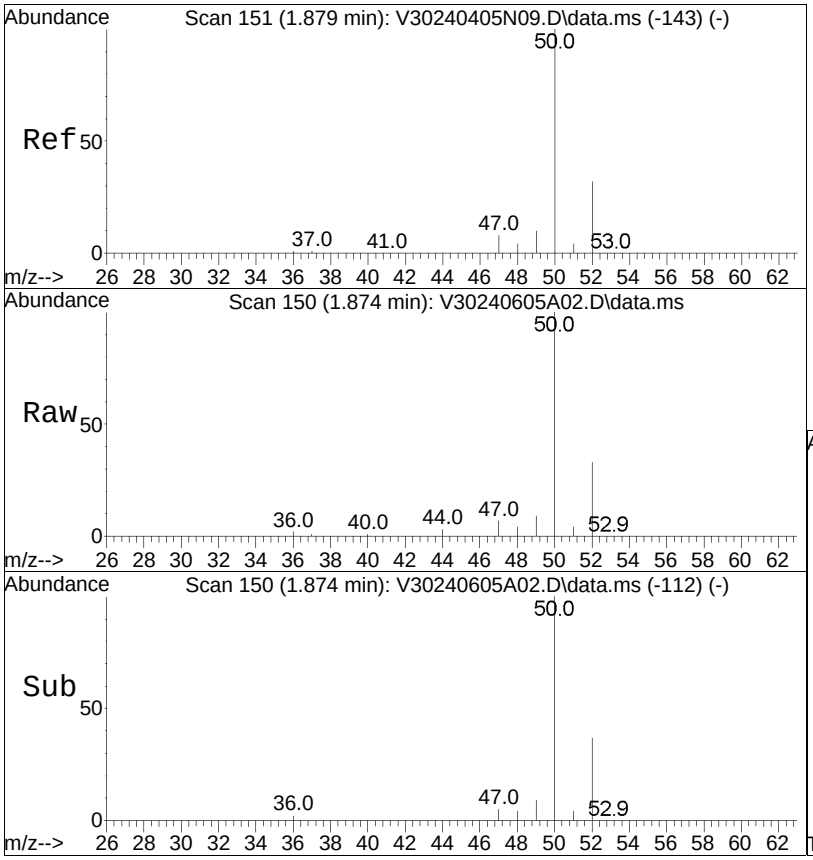


#2
Dichlorodifluoromethane
Concen: 9.90 ug/L
RT: 1.680 min Scan# 113
Delta R.T. -0.000 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 85 Resp: 94780

Ion	Ratio	Lower	Upper
85	100		
87	32.0	20.2	42.0
50	12.4	10.1	20.9

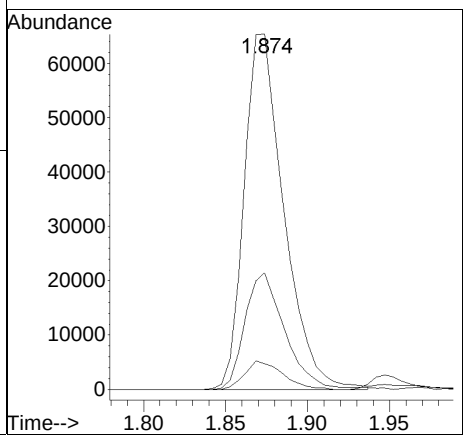


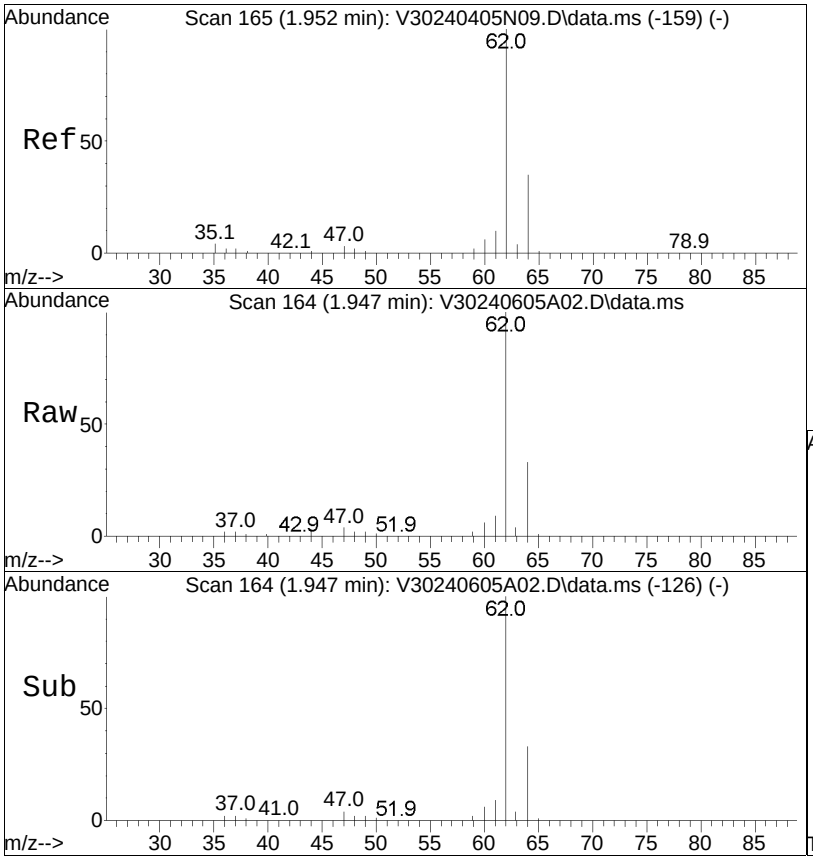


#3
Chloromethane
Concen: 11.33 ug/L
RT: 1.874 min Scan# 150
Delta R.T. -0.000 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 50 Resp: 110268

Ion	Ratio	Lower	Upper
50	100		
52	33.0	25.1	37.7
47	7.6	6.5	9.7

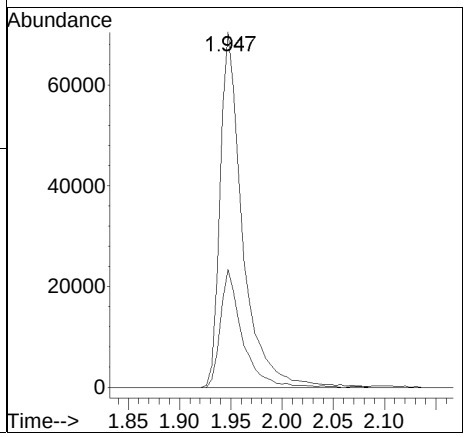


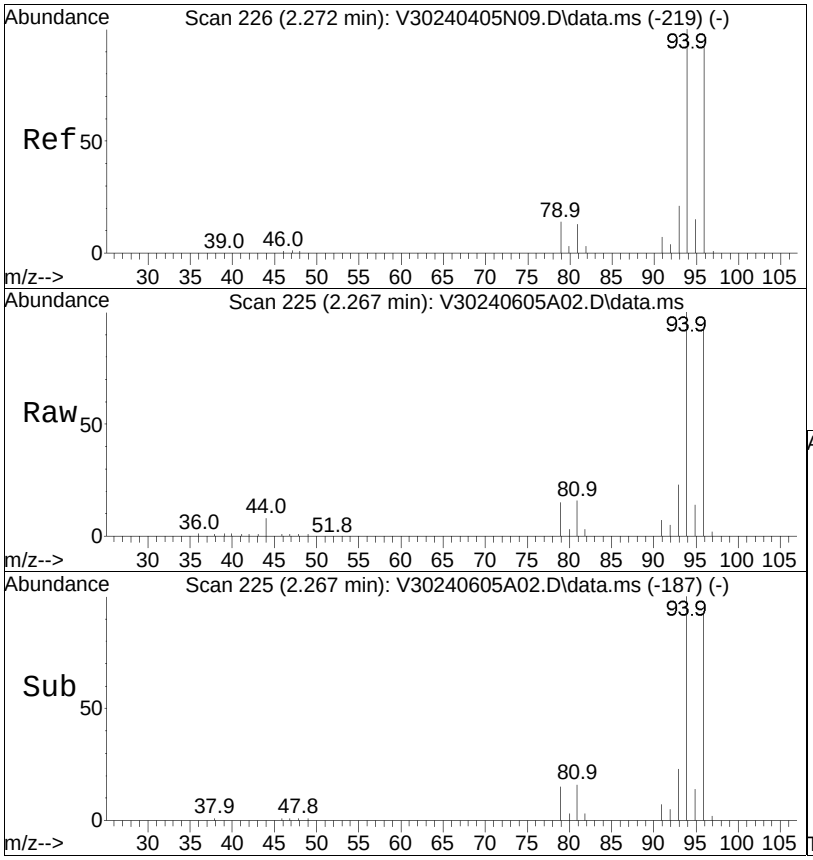


#4
Vinyl chloride
Concen: 10.51 ug/L
RT: 1.947 min Scan# 164
Delta R.T. 0.000 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 62 Resp: 107704

Ion	Ratio	Lower	Upper
62	100		
64	32.3	25.7	38.5

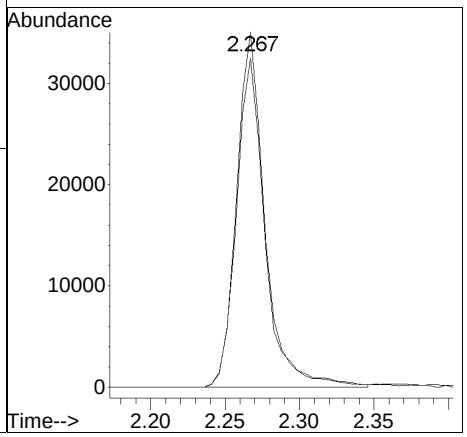


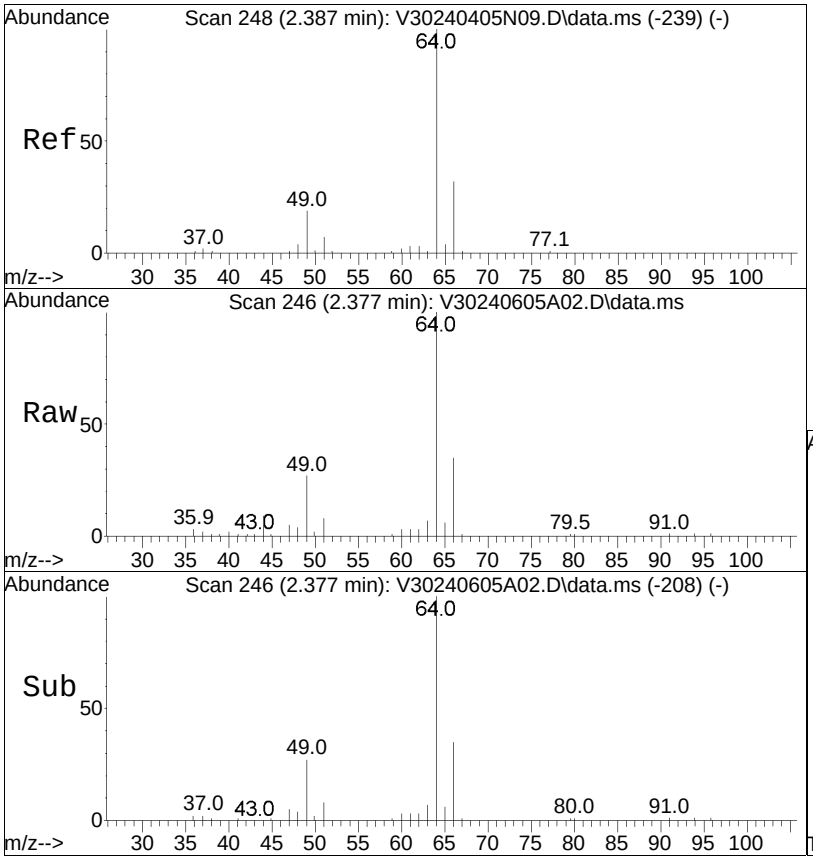


#5
Bromomethane
Concen: 8.08 ug/L
RT: 2.267 min Scan# 225
Delta R.T. -0.000 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 94 Resp: 46805

Ion	Ratio	Lower	Upper
94	100		
96	93.3	73.7	110.5

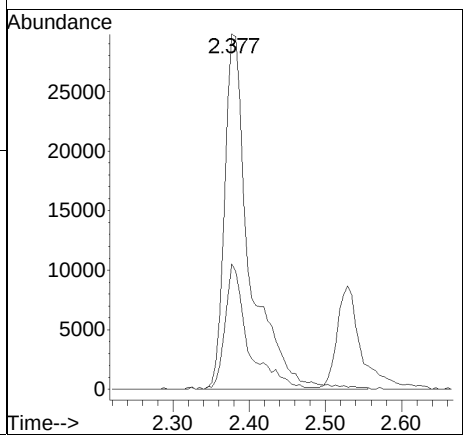


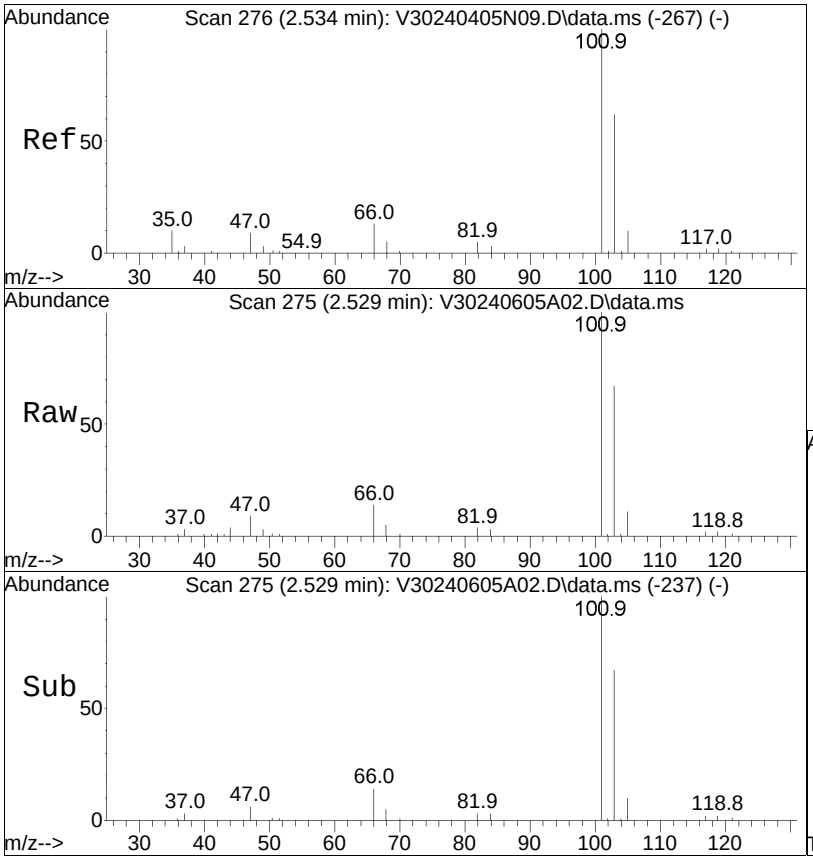


#6
Chloroethane
Concen: 10.76 ug/L
RT: 2.377 min Scan# 246
Delta R.T. 0.000 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 64 Resp: 68524

Ion	Ratio	Lower	Upper
64	100		
66	32.7	25.3	37.9

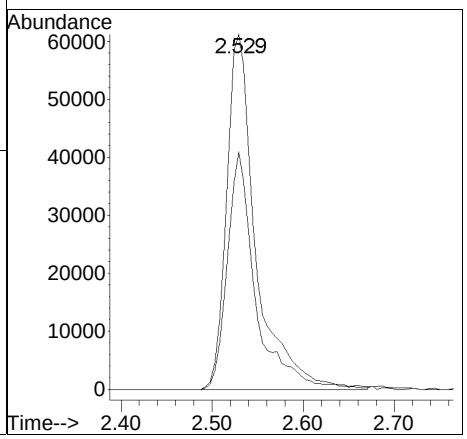


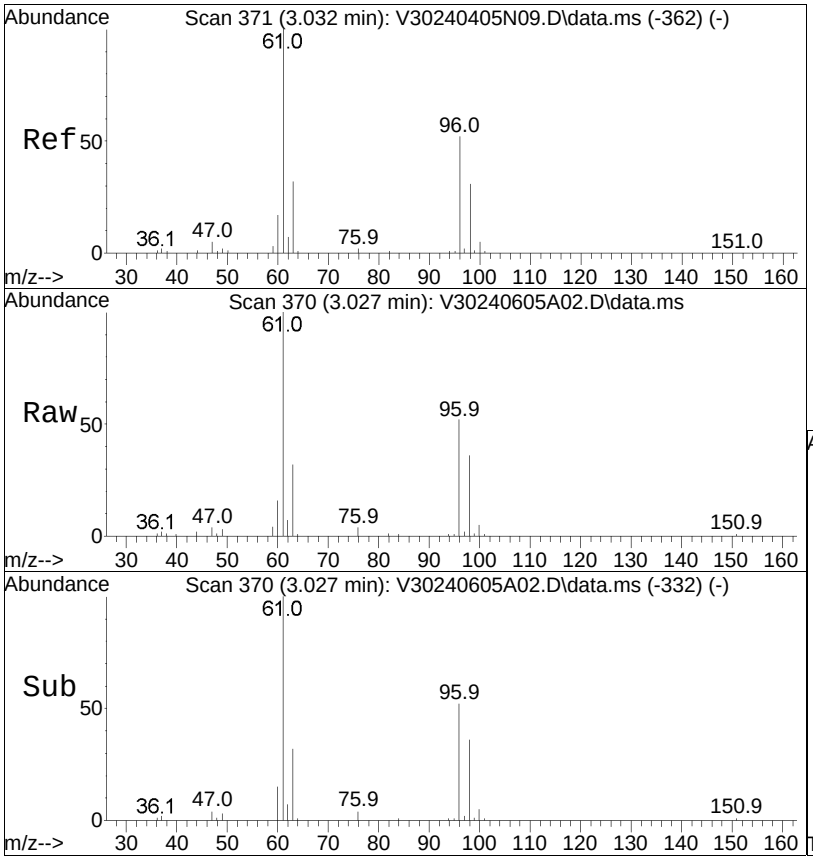


#7
Trichlorofluoromethane
Concen: 11.44 ug/L
RT: 2.529 min Scan# 275
Delta R.T. 0.000 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion:101 Resp: 137215

Ion	Ratio	Lower	Upper
101	100		
103	64.6	51.0	76.4

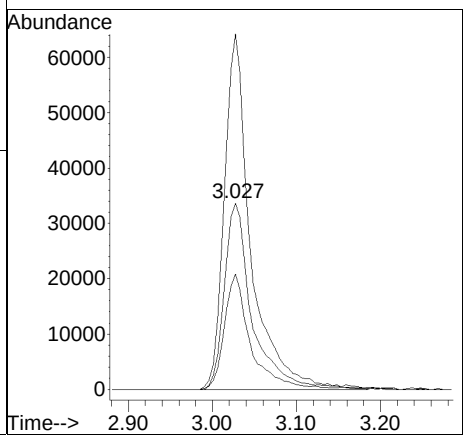


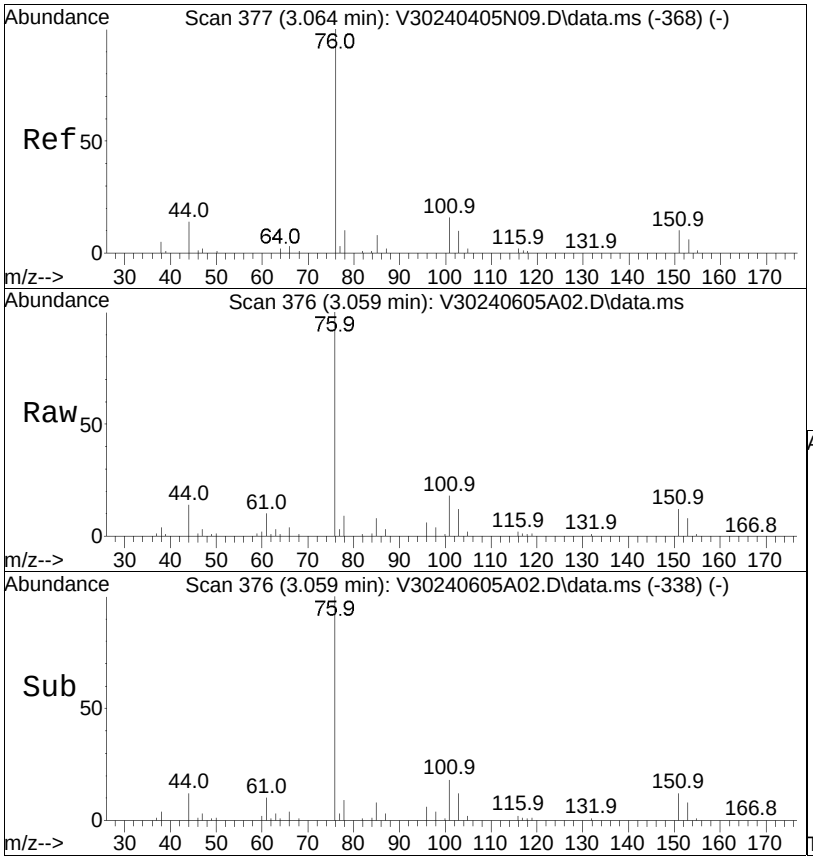


#10
1,1-Dichloroethene
Concen: 9.17 ug/L
RT: 3.027 min Scan# 370
Delta R.T. 0.000 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 96 Resp: 77560

Ion	Ratio	Lower	Upper
96	100		
61	180.8	165.5	248.3
63	58.3	51.9	77.9

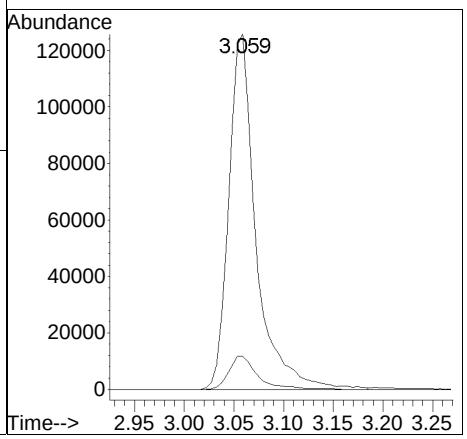


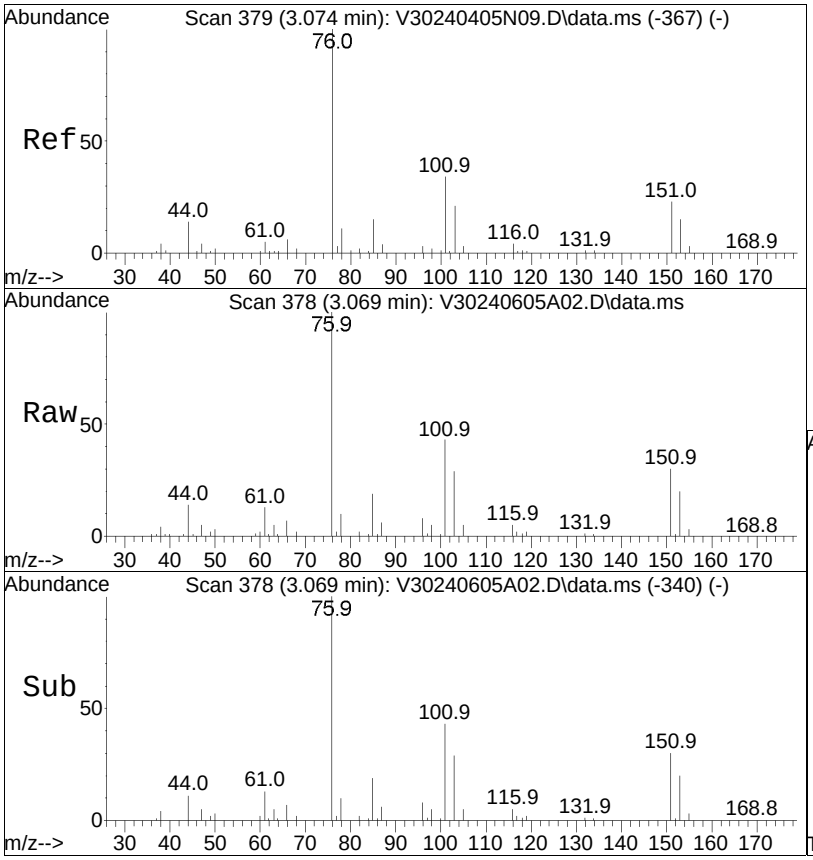


#11
Carbon disulfide
Concen: 10.42 ug/L
RT: 3.059 min Scan# 376
Delta R.T. 0.001 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 76 Resp: 240131

Ion	Ratio	Lower	Upper
76	100		
78	9.9	6.4	13.4

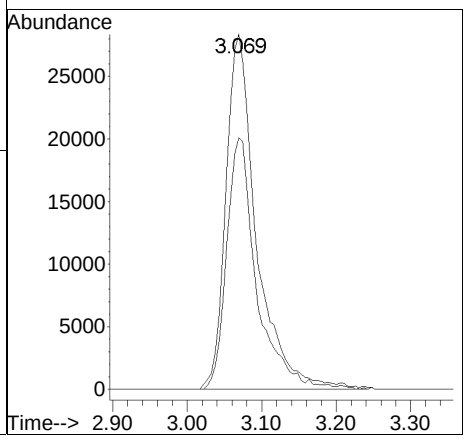


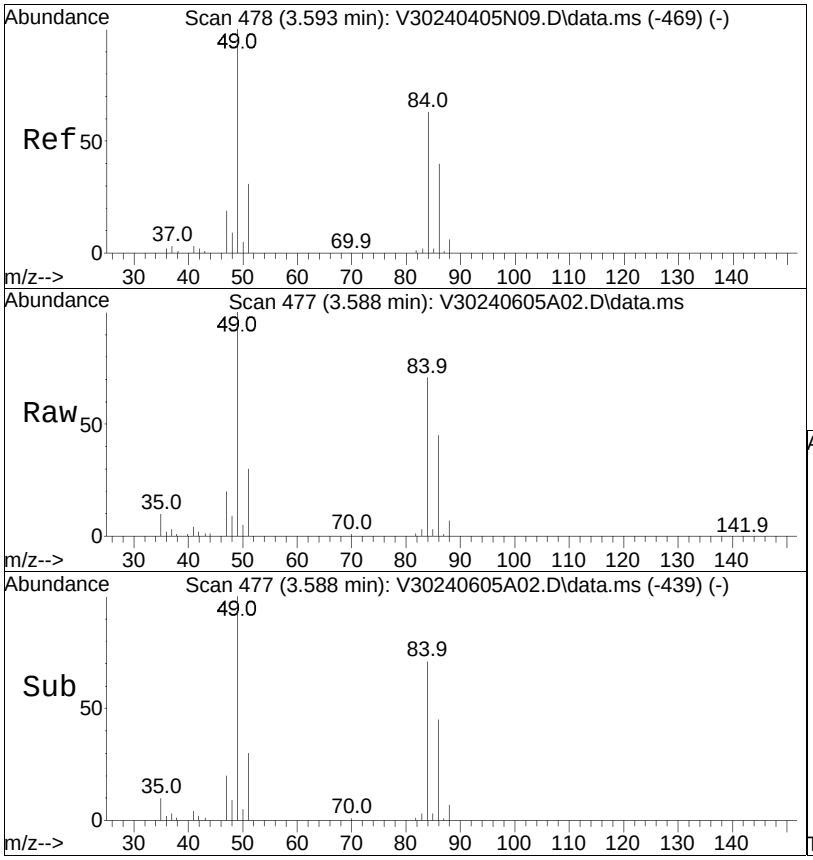


#12
Freon-113
Concen: 9.72 ug/L
RT: 3.069 min Scan# 378
Delta R.T. 0.000 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion:101 Resp: 81236

Ion	Ratio	Lower	Upper
101	100		
151	68.9	51.9	77.9

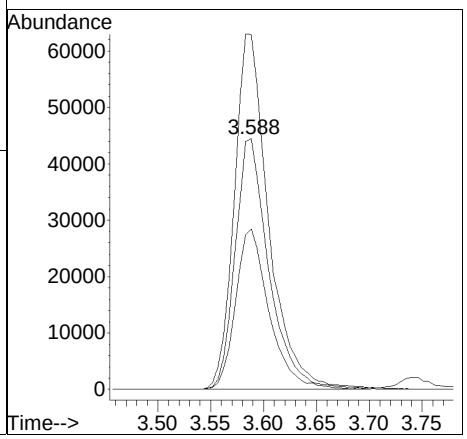


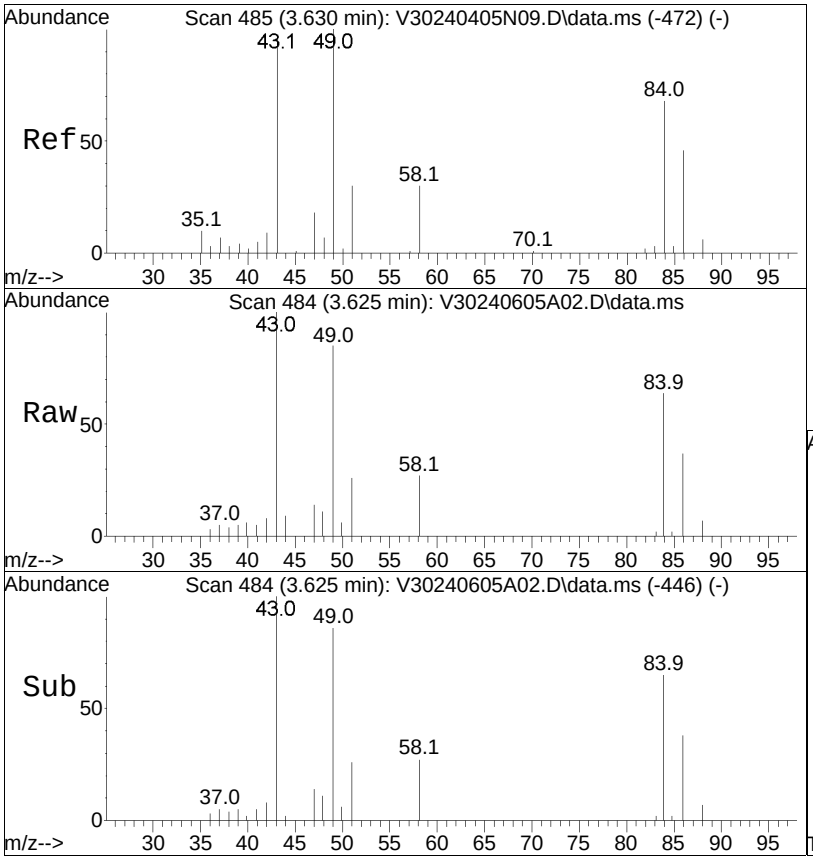


#15
Methylene chloride
Concen: 10.13 ug/L
RT: 3.588 min Scan# 477
Delta R.T. 0.000 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 84 Resp: 98792

Ion	Ratio	Lower	Upper
84	100		
86	63.7	41.7	86.5
49	144.3	103.9	215.9

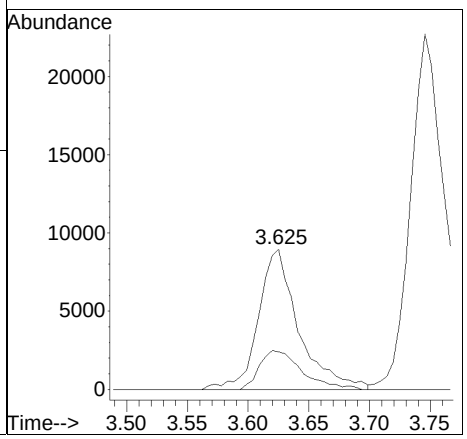


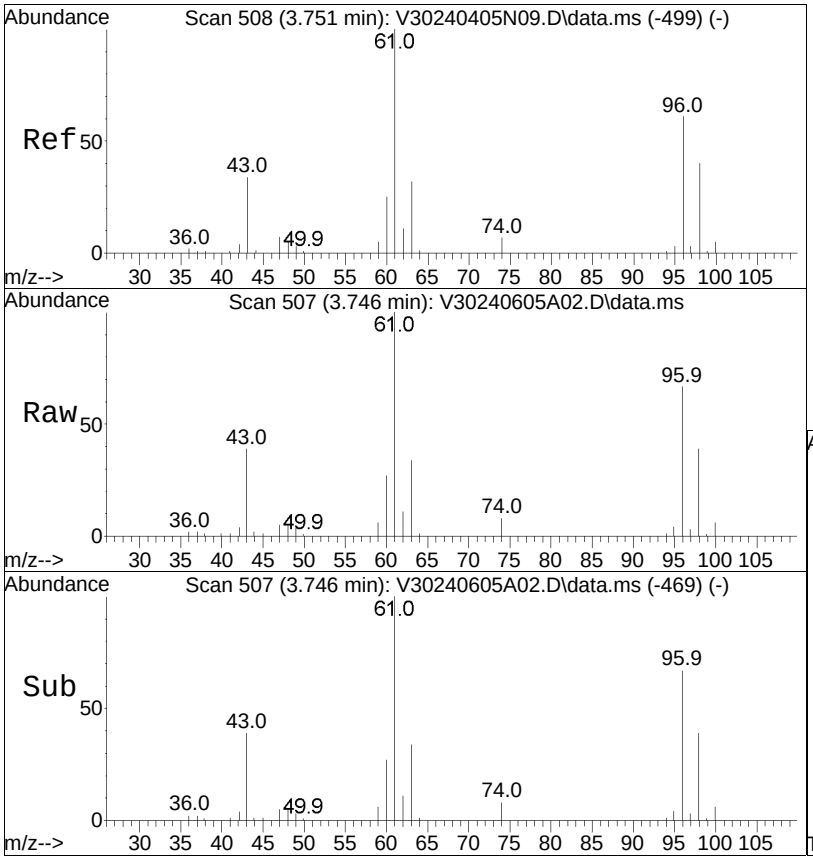


#17
Acetone
Concen: 10.43 ug/L
RT: 3.625 min Scan# 484
Delta R.T. -0.000 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 43 Resp: 20699

Ion	Ratio	Lower	Upper
43	100		
58	29.2	20.1	30.1

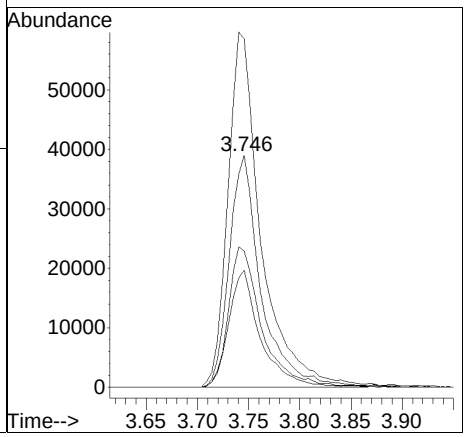


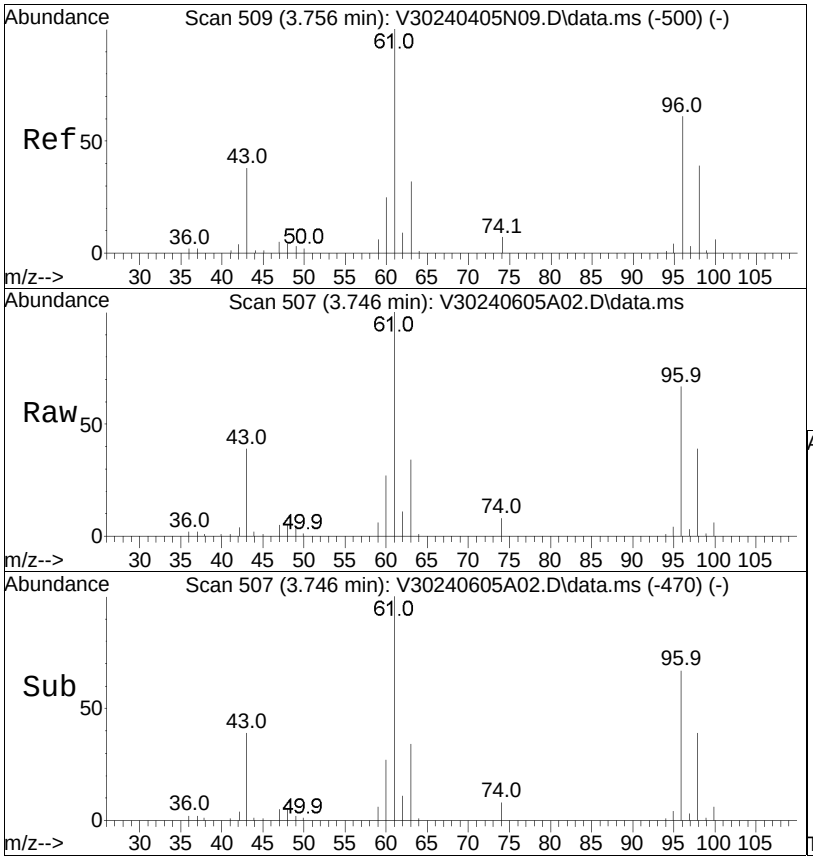


#18
trans-1,2-Dichloroethene
Concen: 9.38 ug/L
RT: 3.746 min Scan# 507
Delta R.T. 0.001 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 96 Resp: 85130

Ion	Ratio	Lower	Upper
96	100		
61	158.7	113.6	236.0
98	63.0	40.8	84.8
63	49.9	36.5	75.7

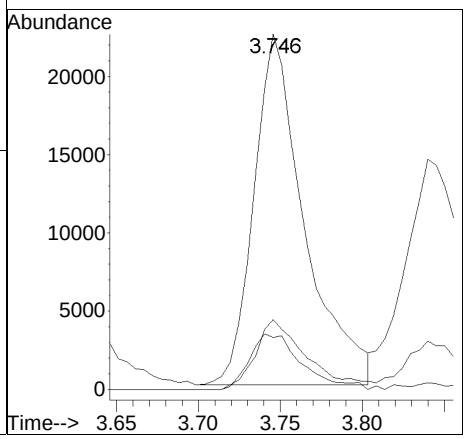


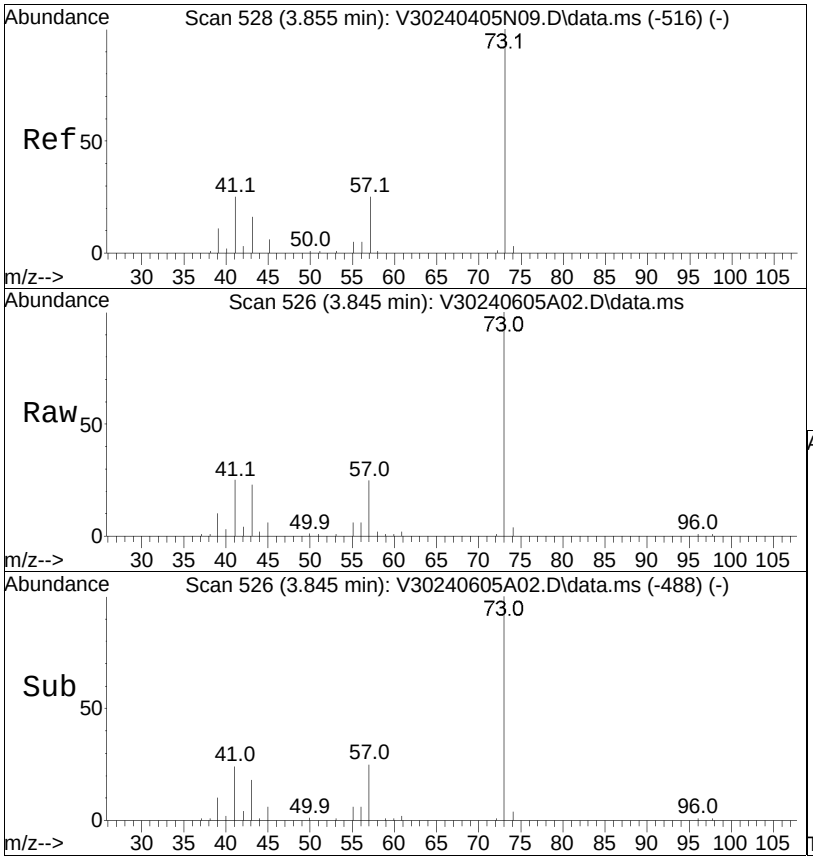


#19
Methyl acetate
Concen: 10.97 ug/L
RT: 3.746 min Scan# 507
Delta R.T. -0.005 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 43 Resp: 48067

Ion	Ratio	Lower	Upper
43	100		
74	20.3	14.6	22.0
59	16.4	9.3	13.9#

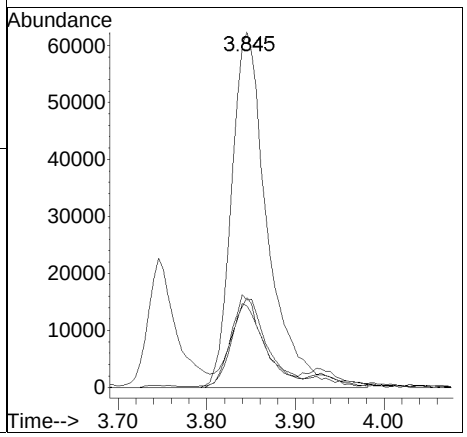


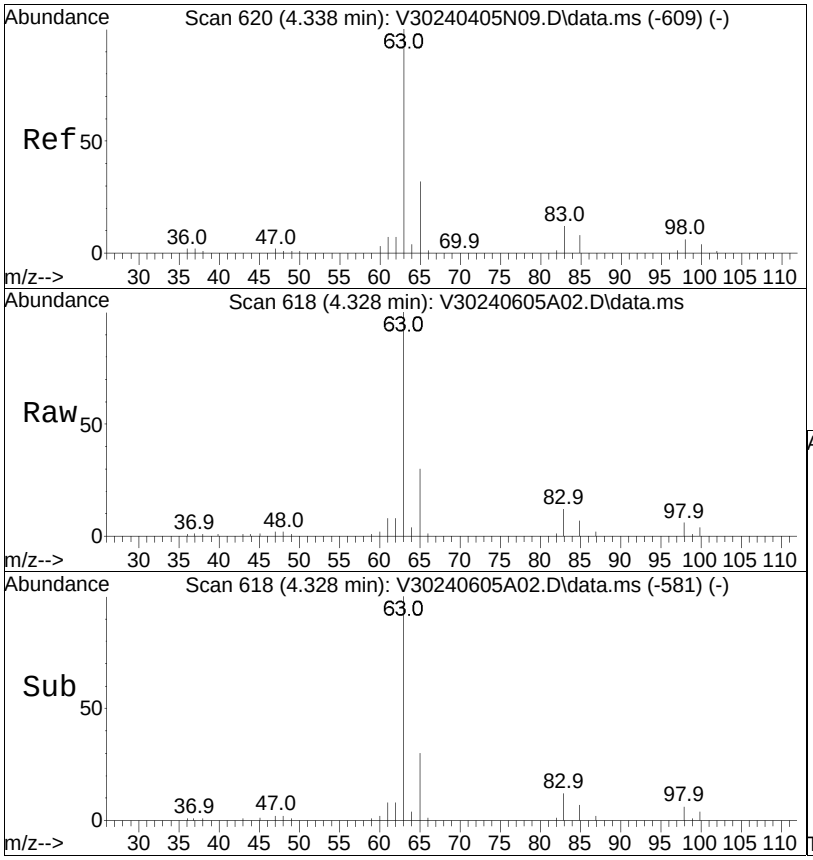


#21
Methyl tert-butyl ether
Concen: 8.70 ug/L
RT: 3.845 min Scan# 526
Delta R.T. 0.000 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 73 Resp: 176495

Ion	Ratio	Lower	Upper
73	100		
57	23.2	15.5	32.1
43	22.3	16.6	34.6
41	25.0	17.2	35.6

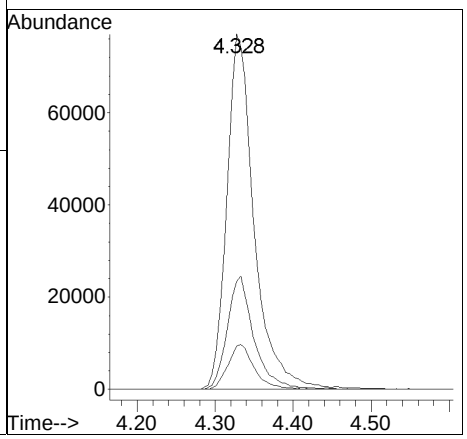


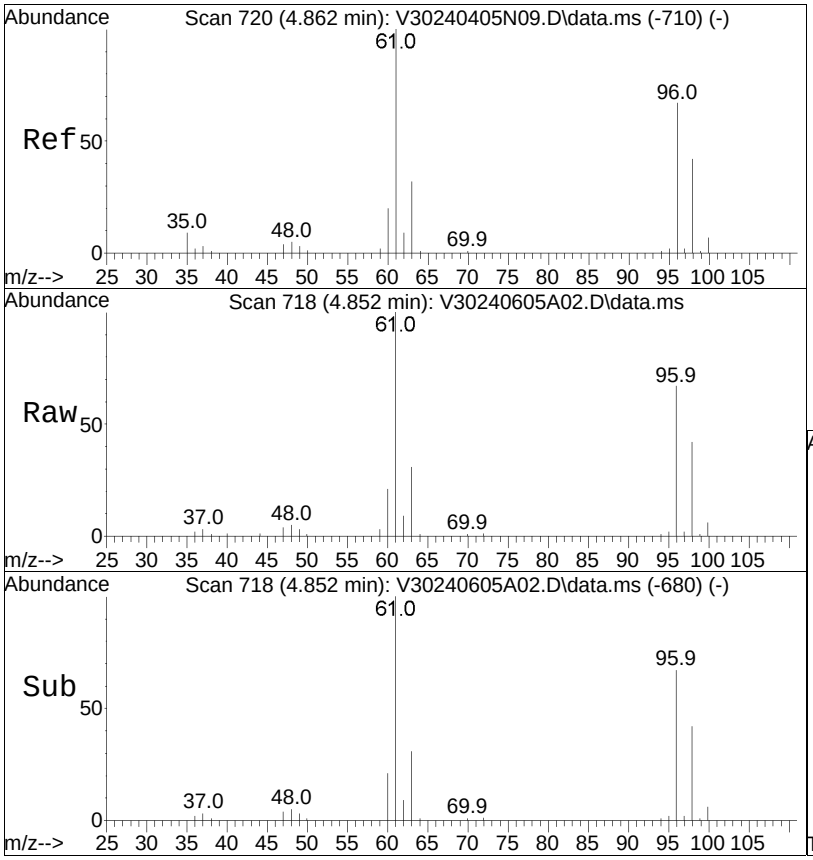


#25
1,1-Dichloroethane
Concen: 11.05 ug/L
RT: 4.328 min Scan# 618
Delta R.T. -0.005 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 63 Resp: 188720

Ion	Ratio	Lower	Upper
63	100		
65	30.9	24.5	36.7
83	12.2	8.9	13.3

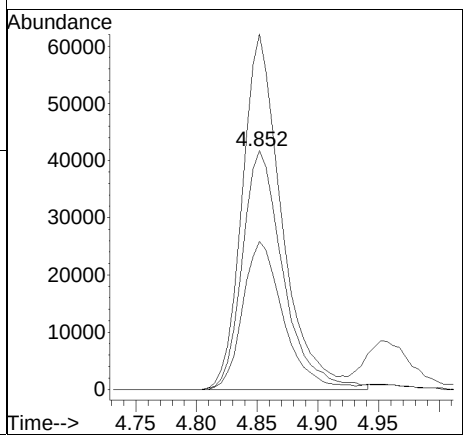


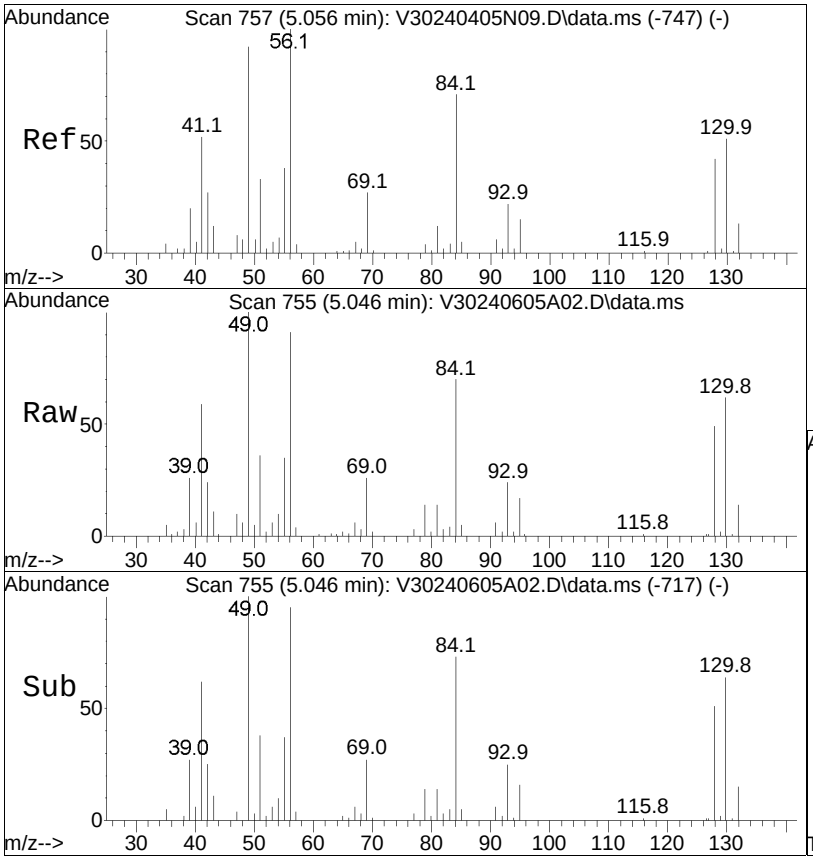


#30
cis-1,2-Dichloroethene
Concen: 9.28 ug/L
RT: 4.852 min Scan# 718
Delta R.T. -0.000 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 96 Resp: 97667

Ion	Ratio	Lower	Upper
96	100		
61	143.6	129.3	193.9
98	61.6	51.4	77.2

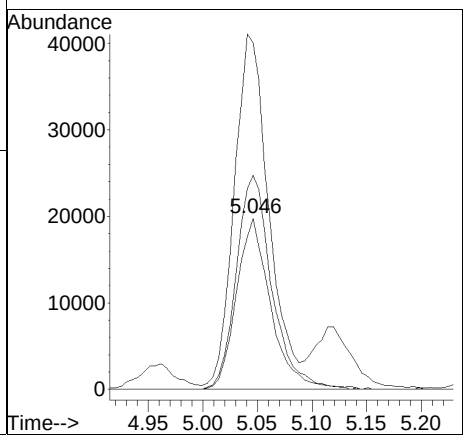


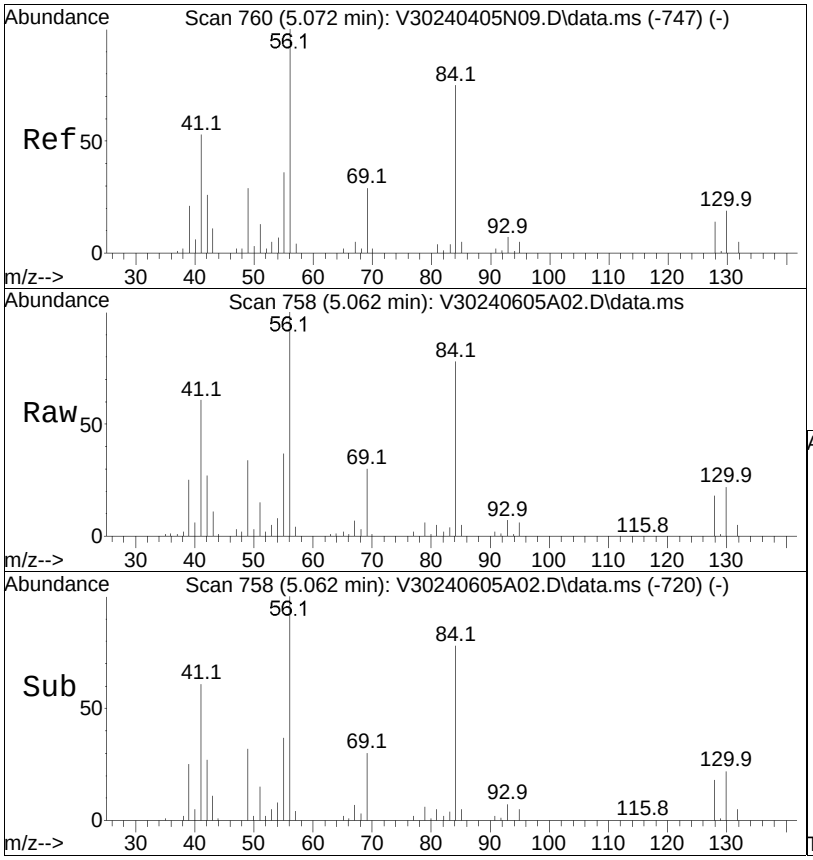


#33
Bromochloromethane
Concen: 9.00 ug/L
RT: 5.046 min Scan# 755
Delta R.T. -0.000 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion:128 Resp: 43189

Ion	Ratio	Lower	Upper
128	100		
49	206.1	214.8	322.2#
130	130.4	105.4	158.2

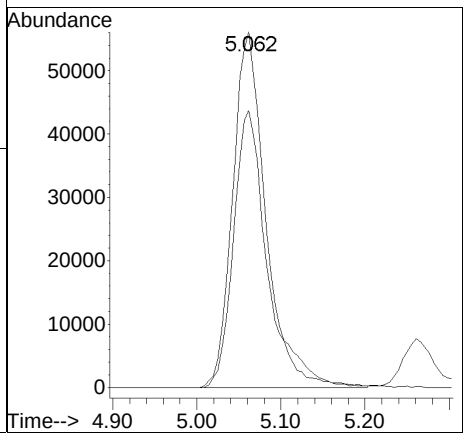


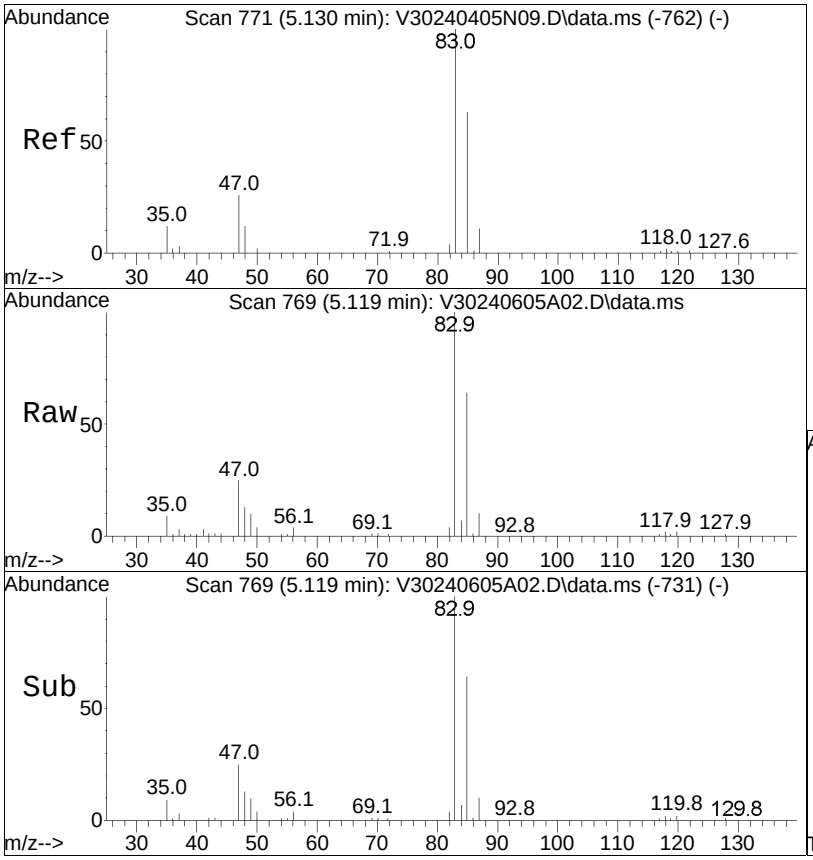


#34
Cyclohexane
Concen: 10.32 ug/L
RT: 5.062 min Scan# 758
Delta R.T. 0.001 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 56 Resp: 152513

Ion	Ratio	Lower	Upper
56	100		
84	80.5	49.9	103.5

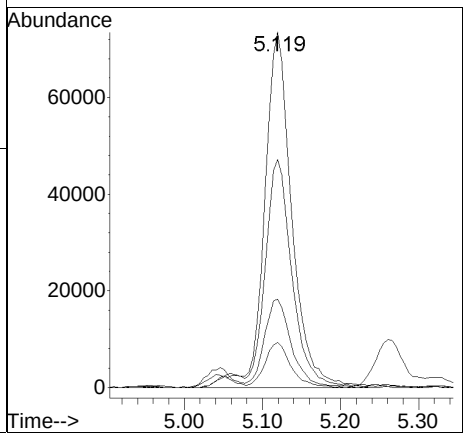


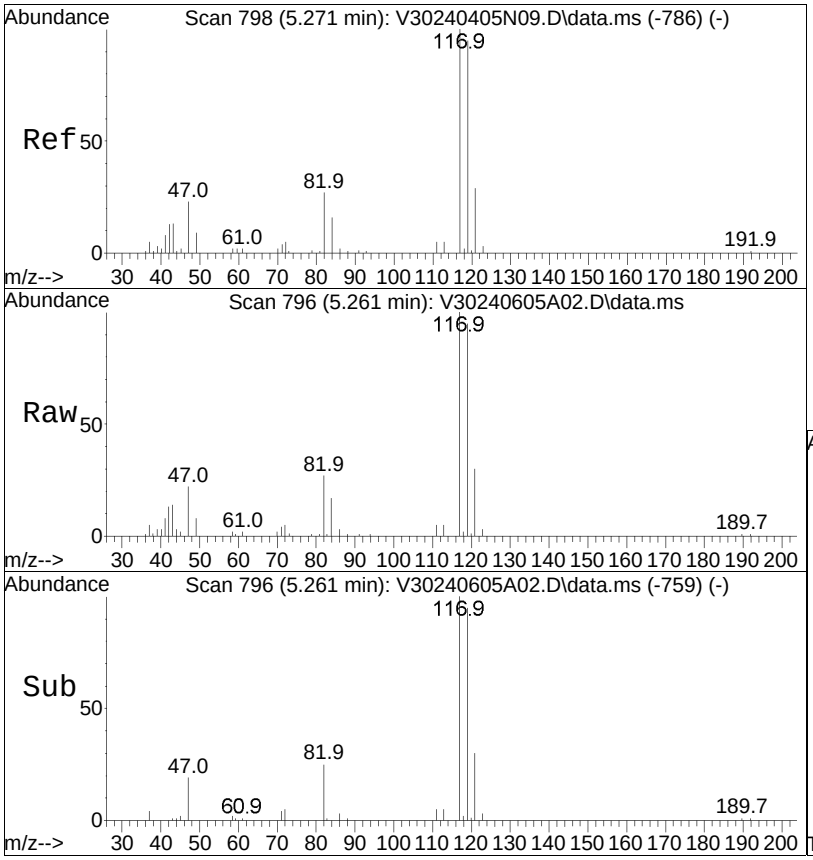


#35
Chloroform
Concen: 10.88 ug/L
RT: 5.119 min Scan# 769
Delta R.T. 0.000 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 83 Resp: 179489

Ion	Ratio	Lower	Upper
83	100		
85	61.8	41.4	86.0
47	24.0	20.5	42.5
48	12.1	9.9	20.5

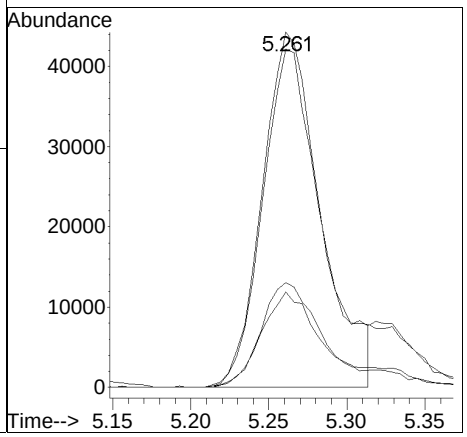


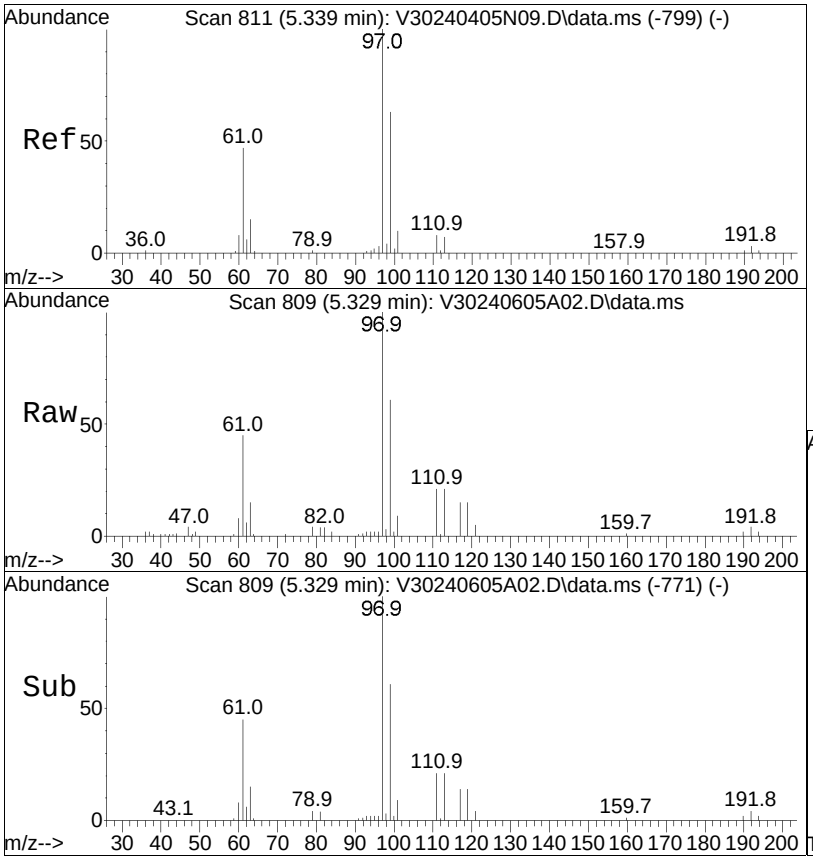


#37
Carbon tetrachloride
Concen: 10.37 ug/L
RT: 5.261 min Scan# 796
Delta R.T. -0.005 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion:117 Resp: 115335

Ion	Ratio	Lower	Upper
117	100		
119	109.4	62.0	128.8
121	34.7	19.6	40.6
82	27.7	18.8	39.0

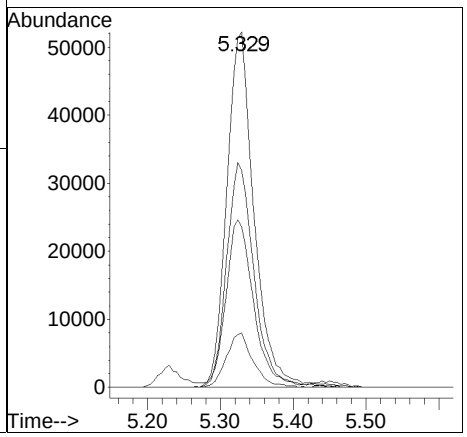


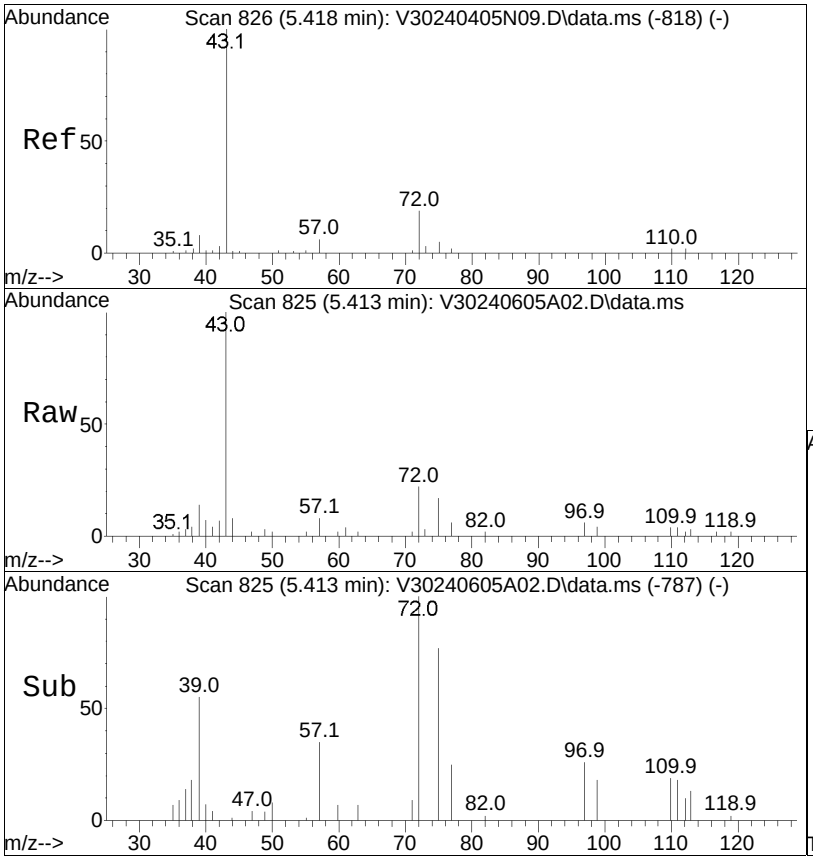


#40
1,1,1-Trichloroethane
Concen: 10.02 ug/L
RT: 5.329 min Scan# 809
Delta R.T. -0.000 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 97 Resp: 137212

Ion	Ratio	Lower	Upper
97	100		
99	63.3	40.6	84.4
61	46.2	35.0	72.8
63	14.9	11.1	23.0

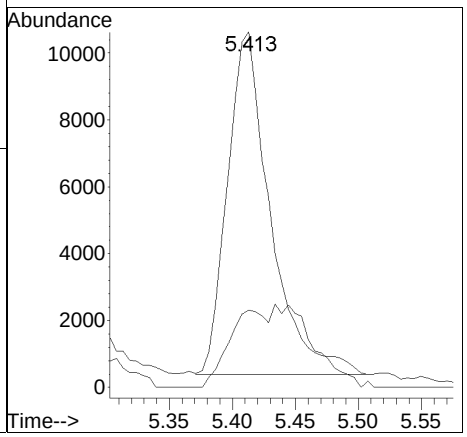


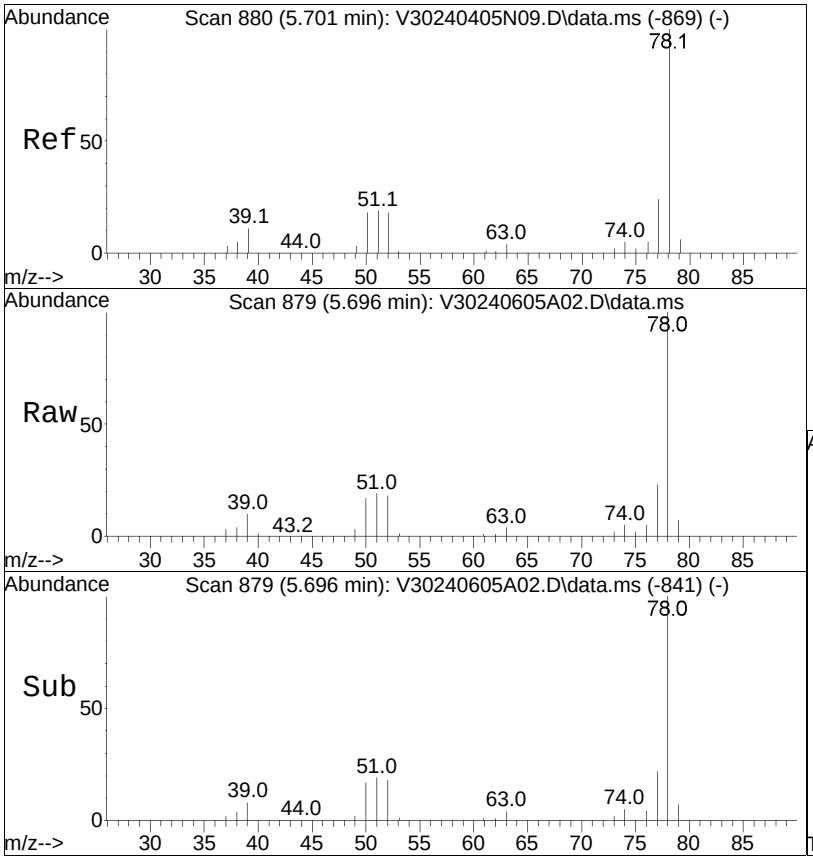


#42
2-Butanone
Concen: 9.38 ug/L
RT: 5.413 min Scan# 825
Delta R.T. -0.000 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 43 Resp: 24271

Ion	Ratio	Lower	Upper
43	100		
72	20.5	18.2	27.4

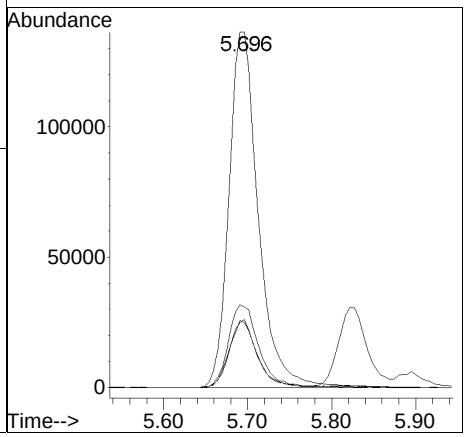


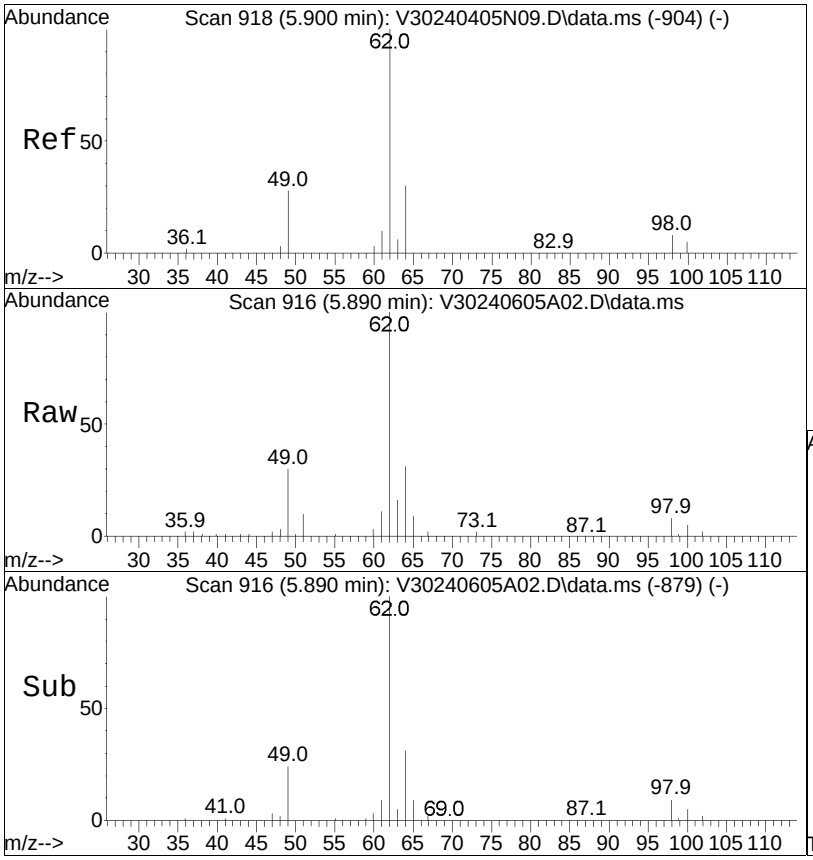


#45
Benzene
Concen: 10.00 ug/L
RT: 5.696 min Scan# 879
Delta R.T. -0.000 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 78 Resp: 331450

Ion	Ratio	Lower	Upper
78	100		
77	24.1	15.6	32.4
51	18.2	12.9	26.7
52	17.9	12.4	25.7

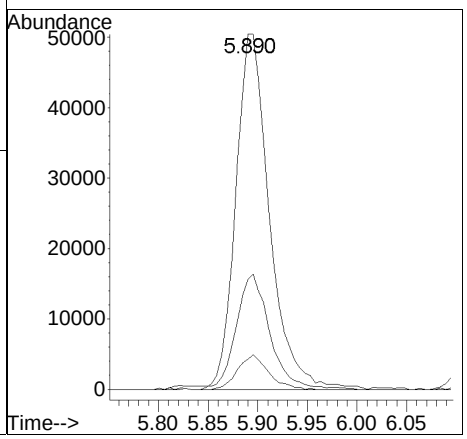


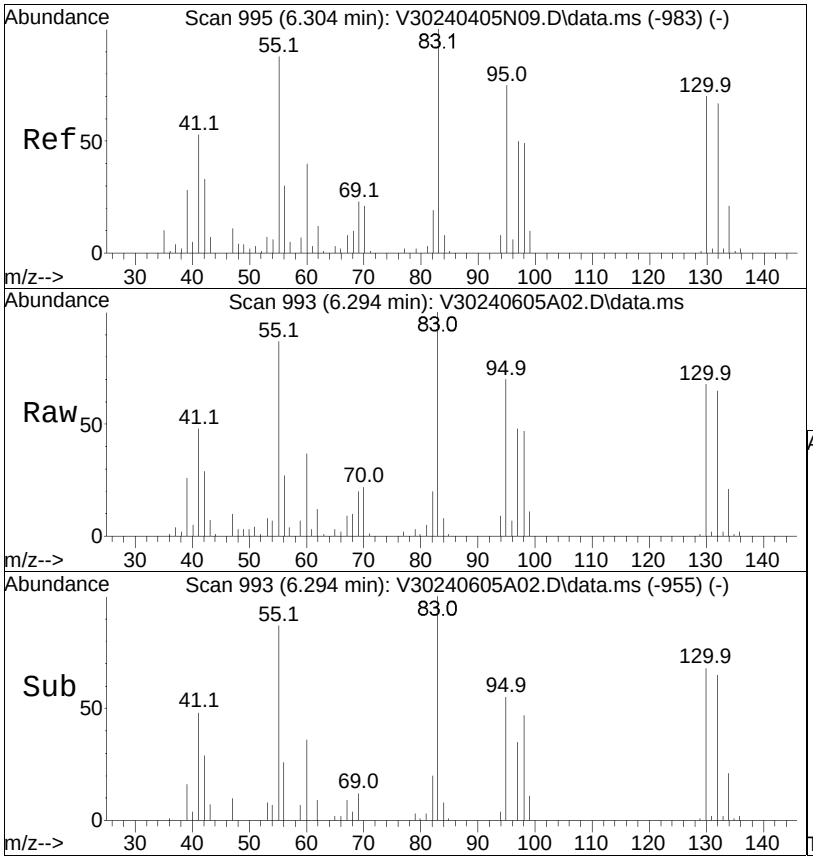


#48
1,2-Dichloroethane
Concen: 10.36 ug/L
RT: 5.890 min Scan# 916
Delta R.T. -0.005 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 62 Resp: 119433

Ion	Ratio	Lower	Upper
62	100		
64	32.3	25.5	38.3
98	8.9	5.5	8.3#

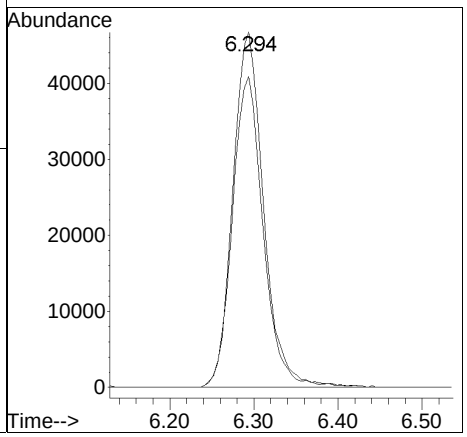


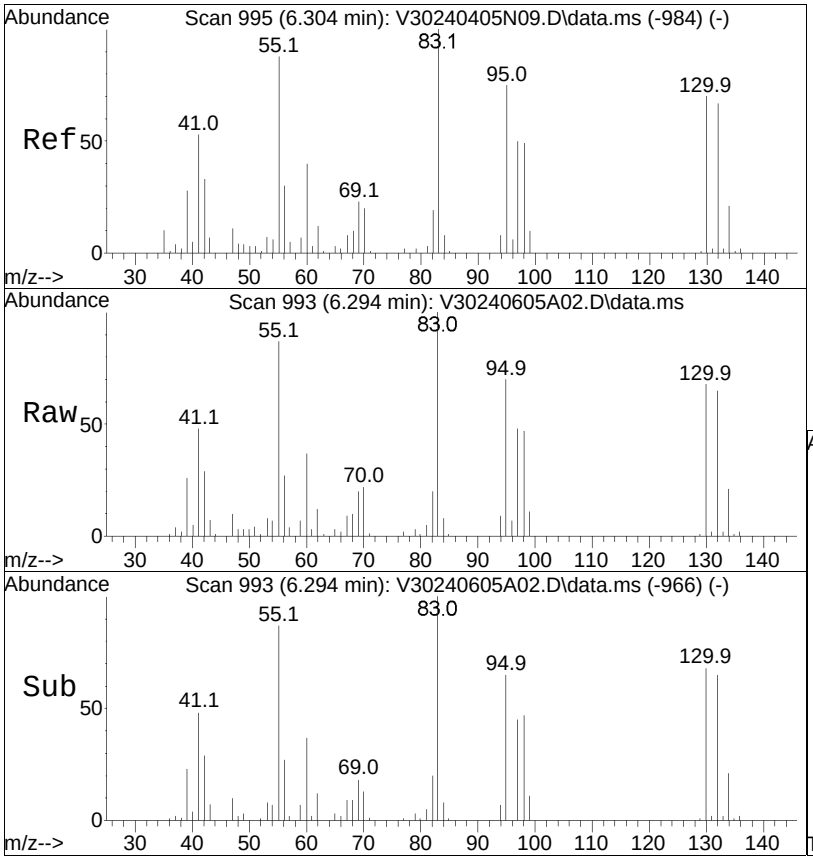


#51
Methyl cyclohexane
Concen: 8.76 ug/L
RT: 6.294 min Scan# 993
Delta R.T. 0.001 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 83 Resp: 118974

Ion	Ratio	Lower	Upper
83	100		
55	87.3	74.6	112.0

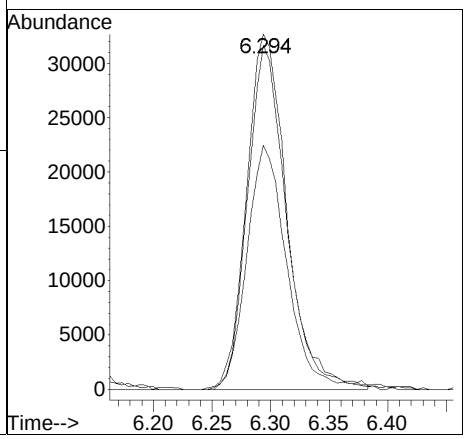


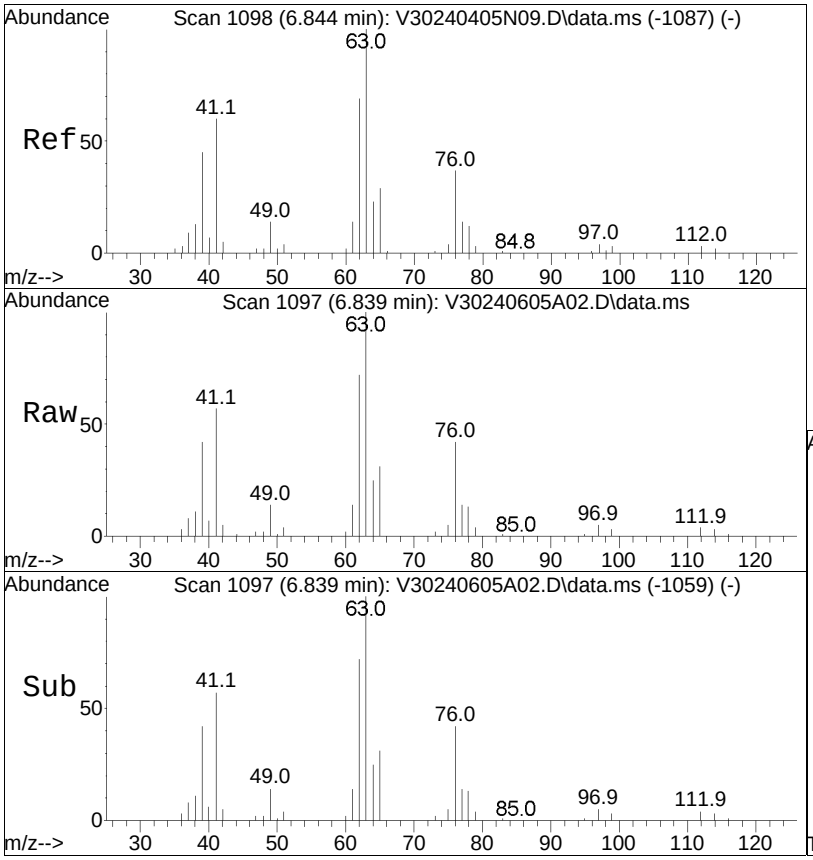


#52
Trichloroethene
Concen: 8.60 ug/L
RT: 6.294 min Scan# 993
Delta R.T. 0.001 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 95 Resp: 78543

Ion	Ratio	Lower	Upper
95	100		
97	68.1	53.8	80.6
130	93.5	71.4	107.0

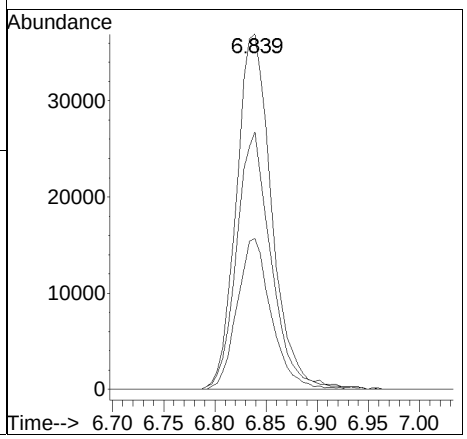


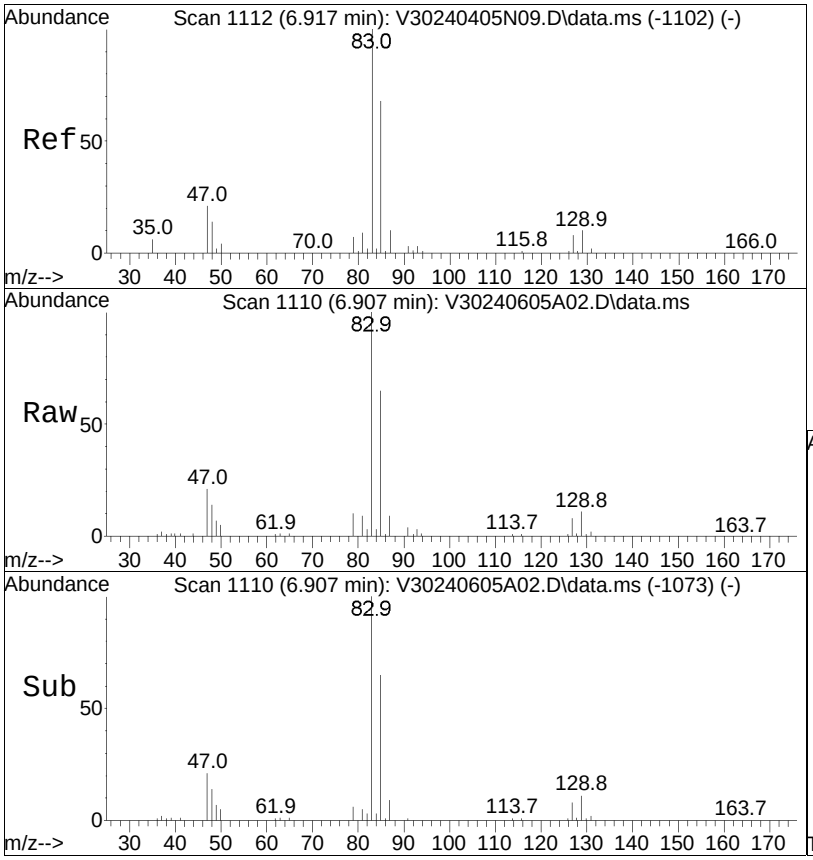


#55
1,2-Dichloropropane
Concen: 10.15 ug/L
RT: 6.839 min Scan# 1097
Delta R.T. -0.000 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 63 Resp: 88963

Ion	Ratio	Lower	Upper
63	100		
62	70.7	58.1	87.1
76	41.0	30.4	45.6

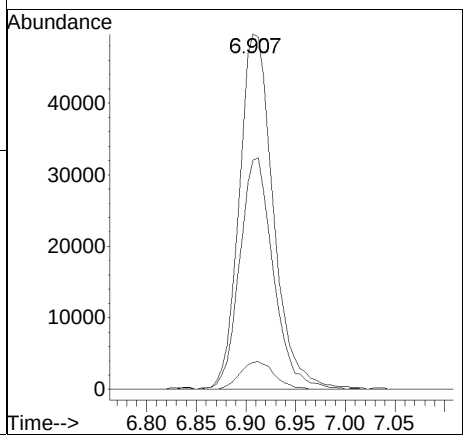


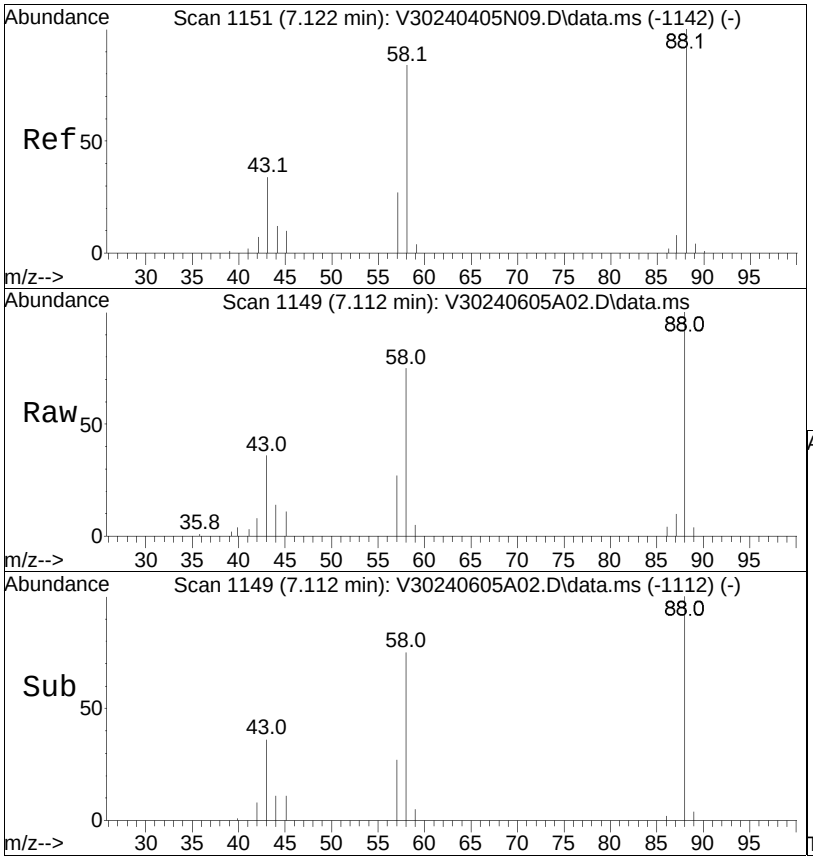


#58
Bromodichloromethane
Concen: 9.83 ug/L
RT: 6.907 min Scan# 1110
Delta R.T. -0.005 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 83 Resp: 118864

Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.2	75.2
127	8.0	5.2	7.8#

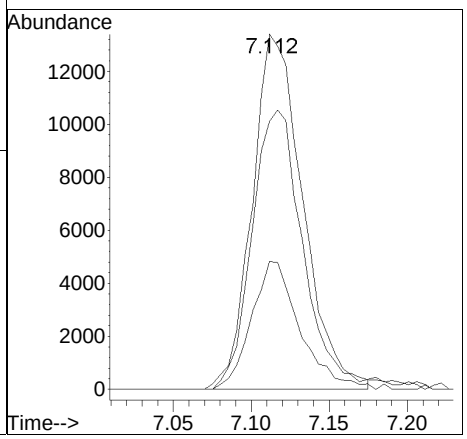


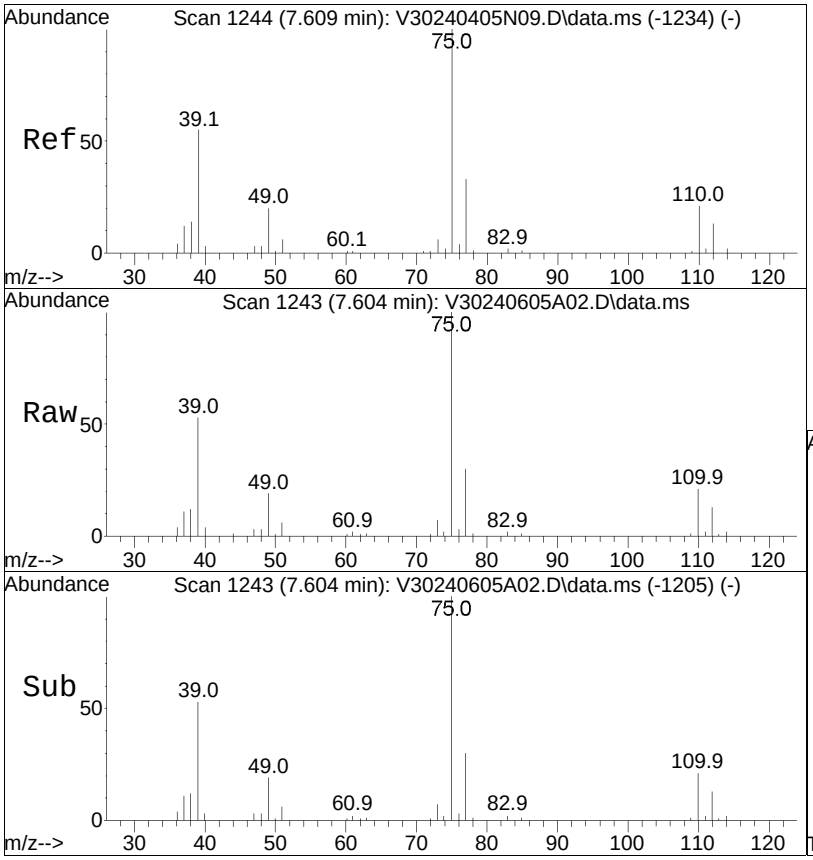


#61
1,4-Dioxane
Concen: 407.97 ug/L
RT: 7.112 min Scan# 1149
Delta R.T. -0.005 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 88 Resp: 30195

Ion	Ratio	Lower	Upper
88	100		
58	80.2	59.9	89.9
43	34.8	30.8	46.2

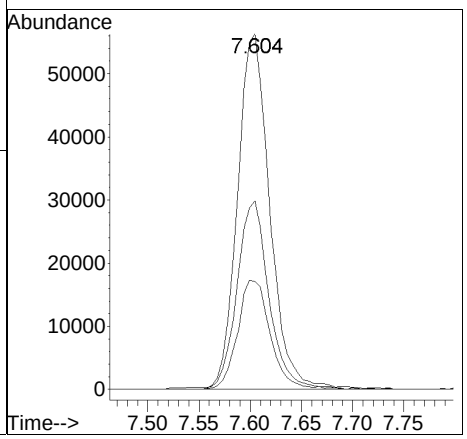


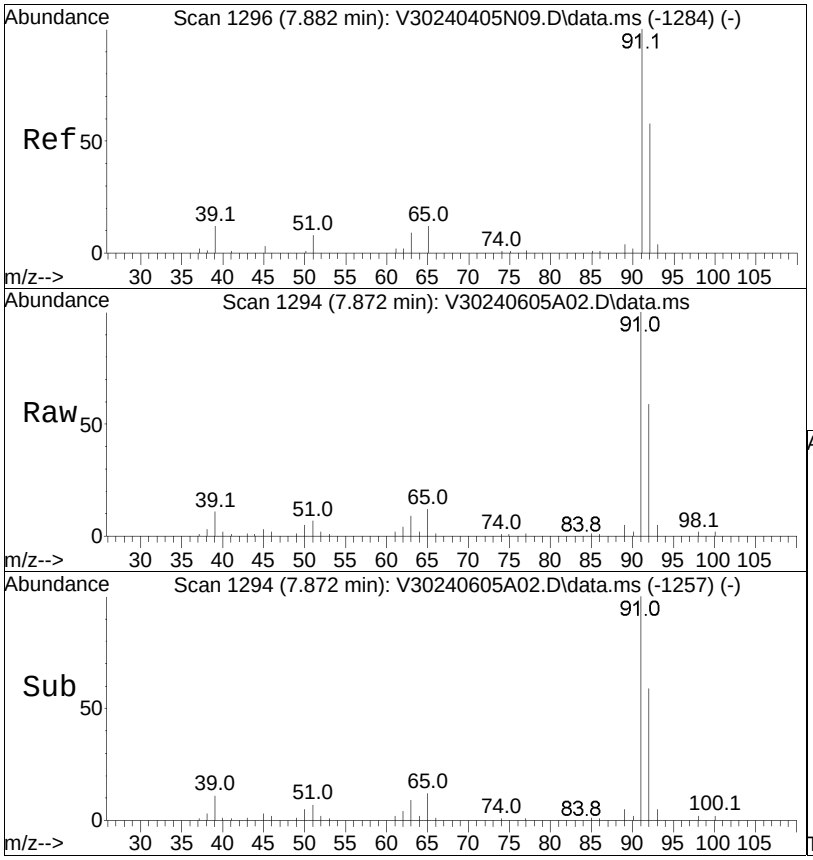


#62
cis-1,3-Dichloropropene
Concen: 9.12 ug/L
RT: 7.604 min Scan# 1243
Delta R.T. 0.000 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 75 Resp: 123753

Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.4	38.2
39	52.4	54.6	82.0#

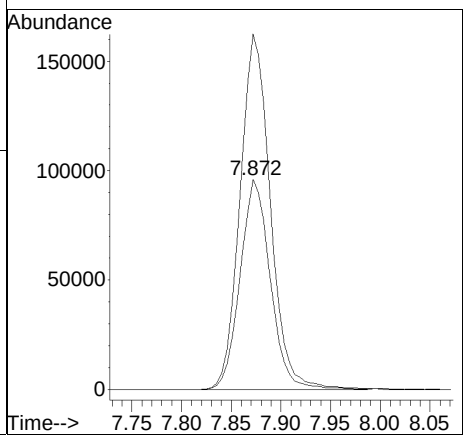


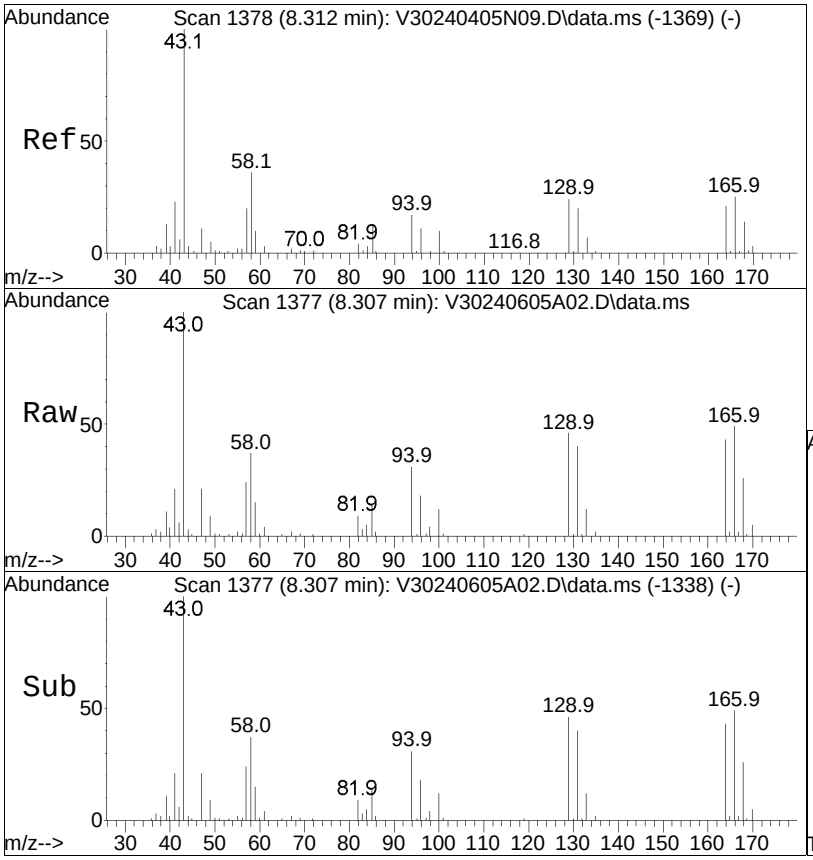


#65
Toluene
Concen: 9.47 ug/L
RT: 7.872 min Scan# 1294
Delta R.T. -0.005 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 92 Resp: 202871

Ion	Ratio	Lower	Upper
92	100		
91	170.1	137.5	206.3

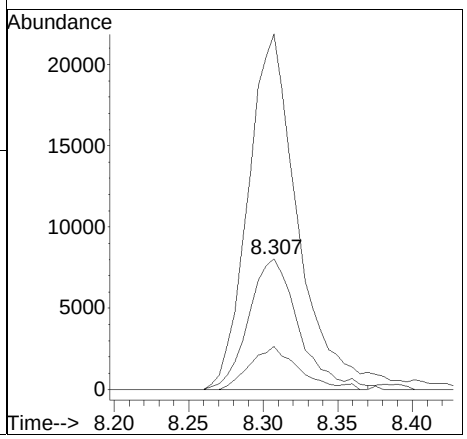


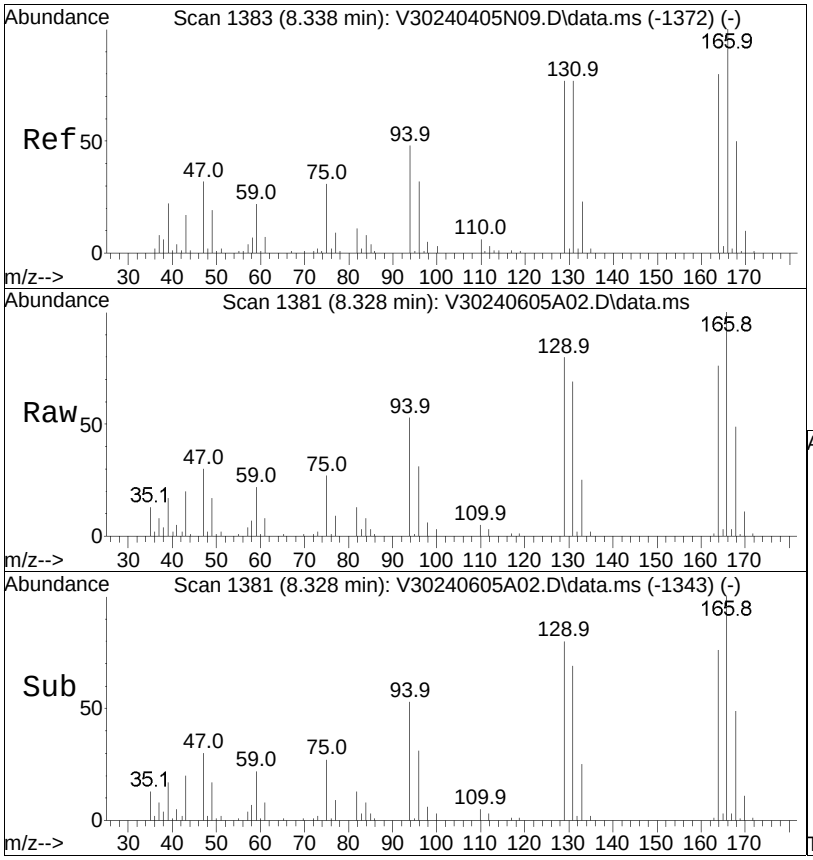


#66
4-Methyl-2-pentanone
Concen: 8.86 ug/L
RT: 8.307 min Scan# 1377
Delta R.T. 0.005 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 58 Resp: 18760

Ion	Ratio	Lower	Upper
58	100		
100	32.1	22.6	34.0
43	279.2	234.6	351.8

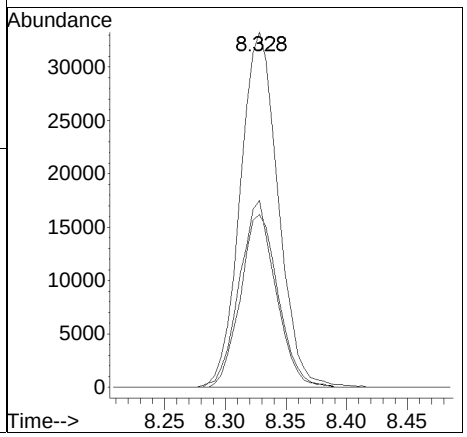


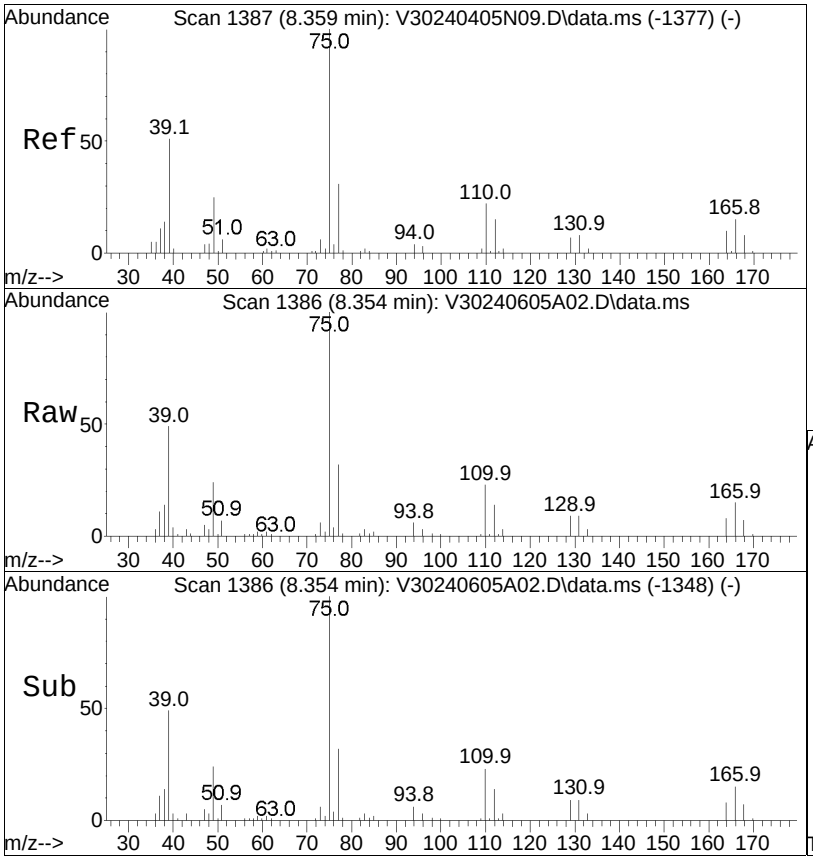


#67
Tetrachloroethene
Concen: 8.22 ug/L
RT: 8.328 min Scan# 1381
Delta R.T. 0.000 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion:166 Resp: 72213

Ion	Ratio	Lower	Upper
166	100		
168	48.6	38.6	58.0
94	50.4	42.6	63.8

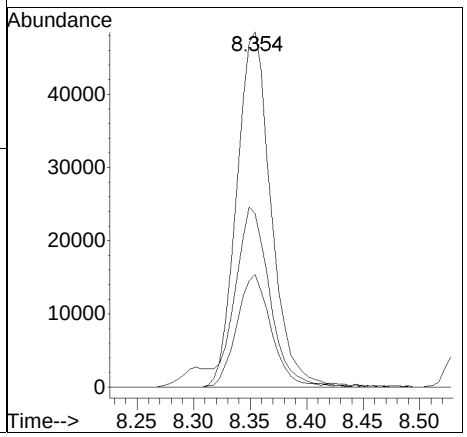


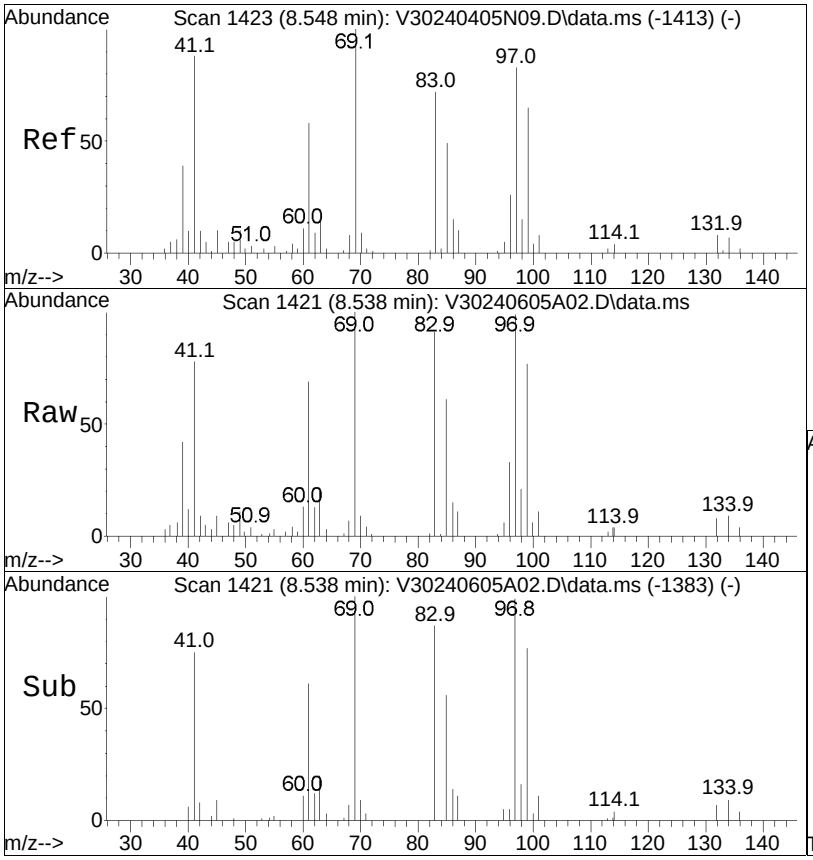


#69
trans-1,3-Dichloropropene
Concen: 8.88 ug/L
RT: 8.354 min Scan# 1386
Delta R.T. 0.000 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 75 Resp: 103228

Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.6	38.4
39	49.3	60.2	90.4#

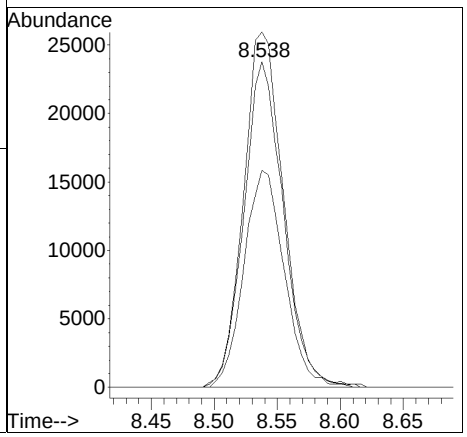


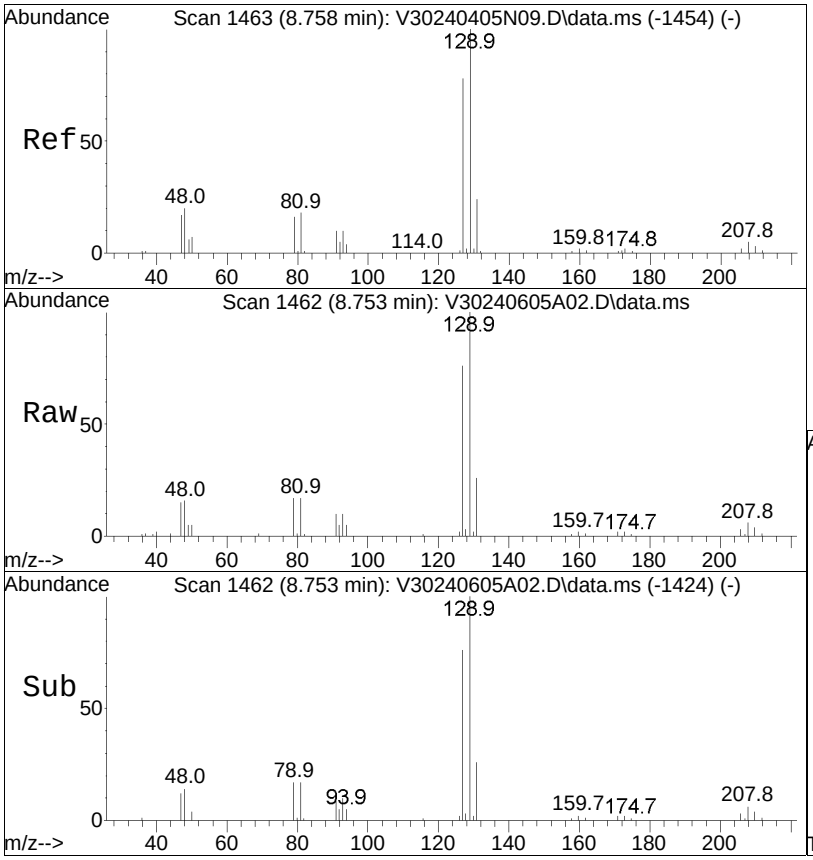


#72
1,1,2-Trichloroethane
Concen: 8.98 ug/L
RT: 8.538 min Scan# 1421
Delta R.T. -0.000 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 83 Resp: 51920

Ion	Ratio	Lower	Upper
83	100		
97	111.1	87.7	131.5
85	68.3	53.1	79.7

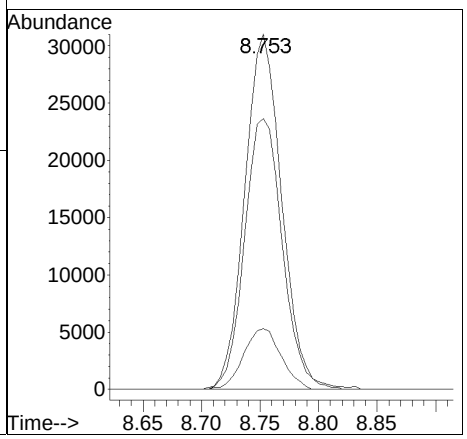


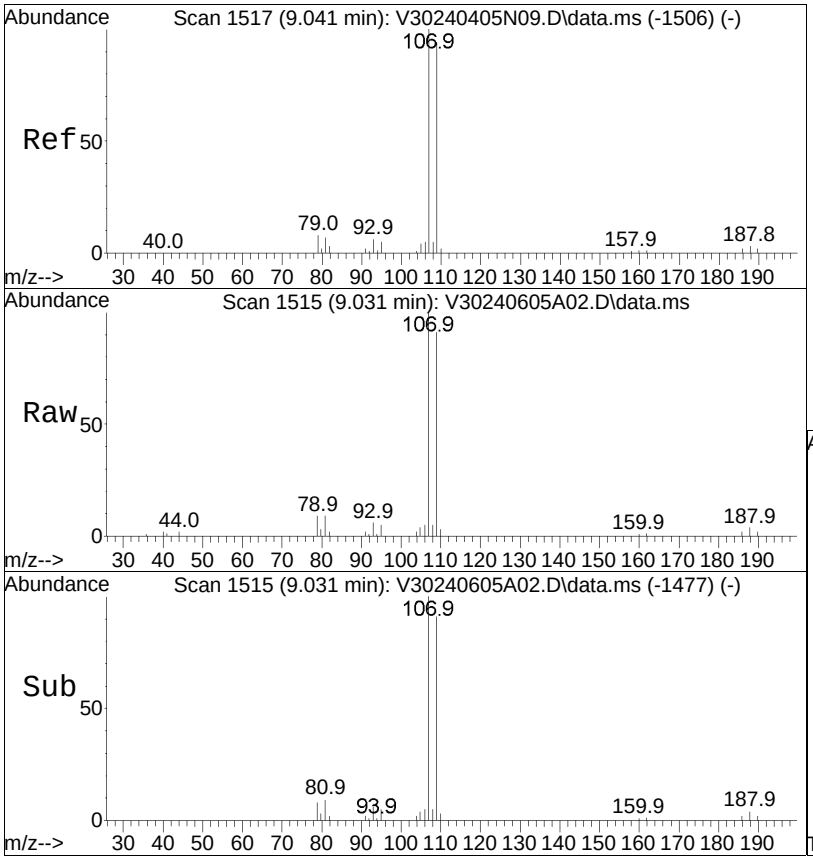


#73
Chlorodibromomethane
Concen: 8.73 ug/L
RT: 8.753 min Scan# 1462
Delta R.T. 0.001 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion:129 Resp: 68289

Ion	Ratio	Lower	Upper
129	100		
81	17.4	14.6	22.0
127	77.8	62.6	93.8

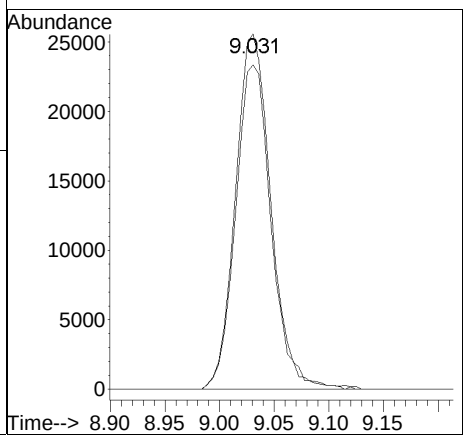


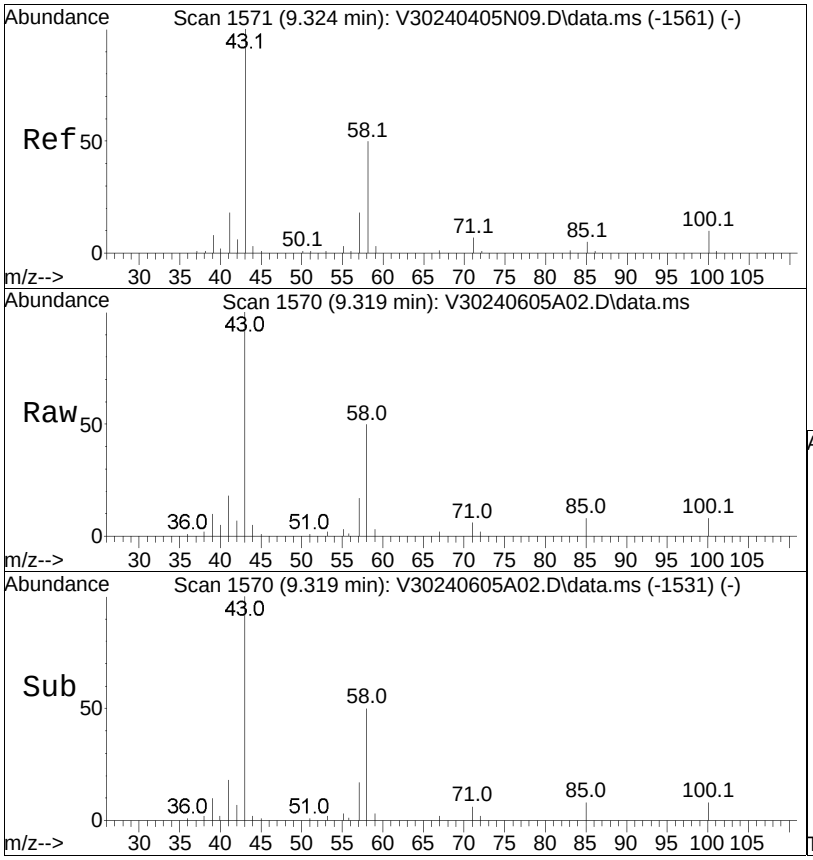


#75
1,2-Dibromoethane
Concen: 8.62 ug/L
RT: 9.031 min Scan# 1515
Delta R.T. 0.001 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion:107 Resp: 58028

Ion	Ratio	Lower	Upper
107	100		
109	91.1	75.0	112.4

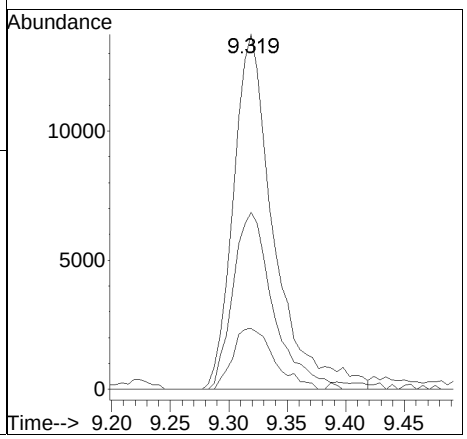


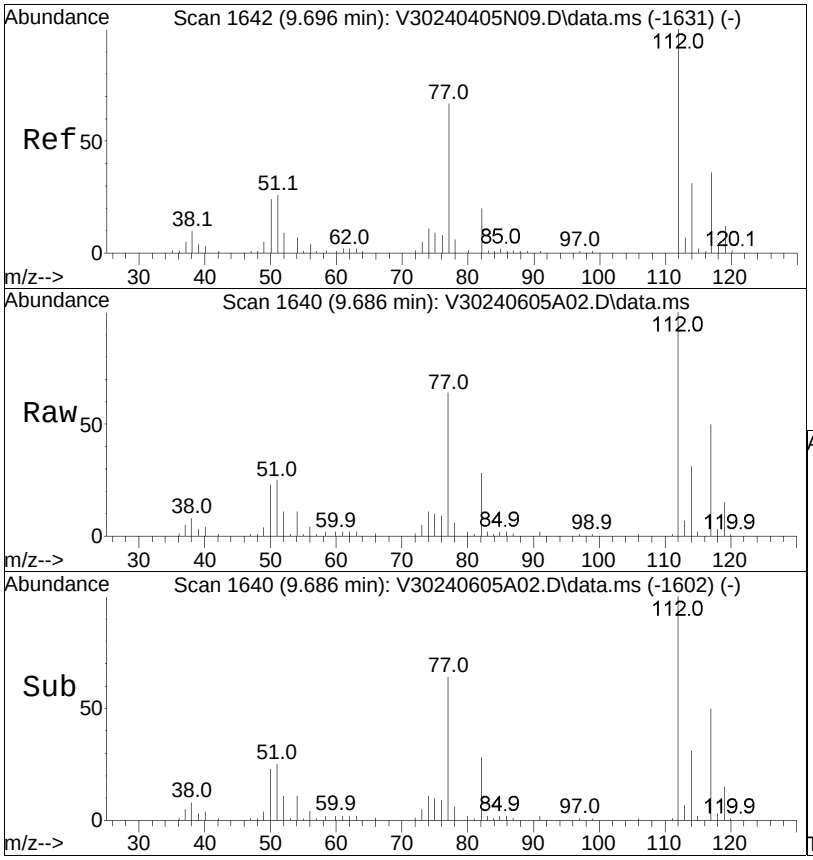


#77
2-Hexanone
Concen: 9.13 ug/L
RT: 9.319 min Scan# 1570
Delta R.T. 0.005 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 43 Resp: 33119

Ion	Ratio	Lower	Upper
43	100		
58	51.5	38.6	58.0
57	17.7	14.1	21.1

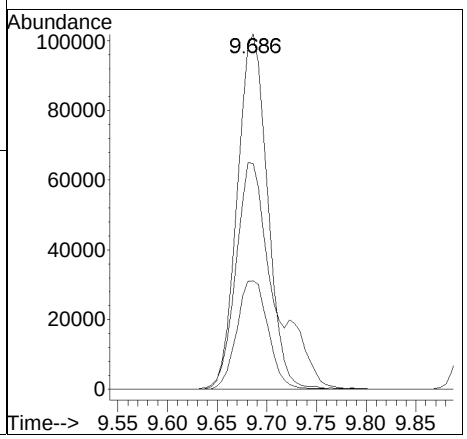


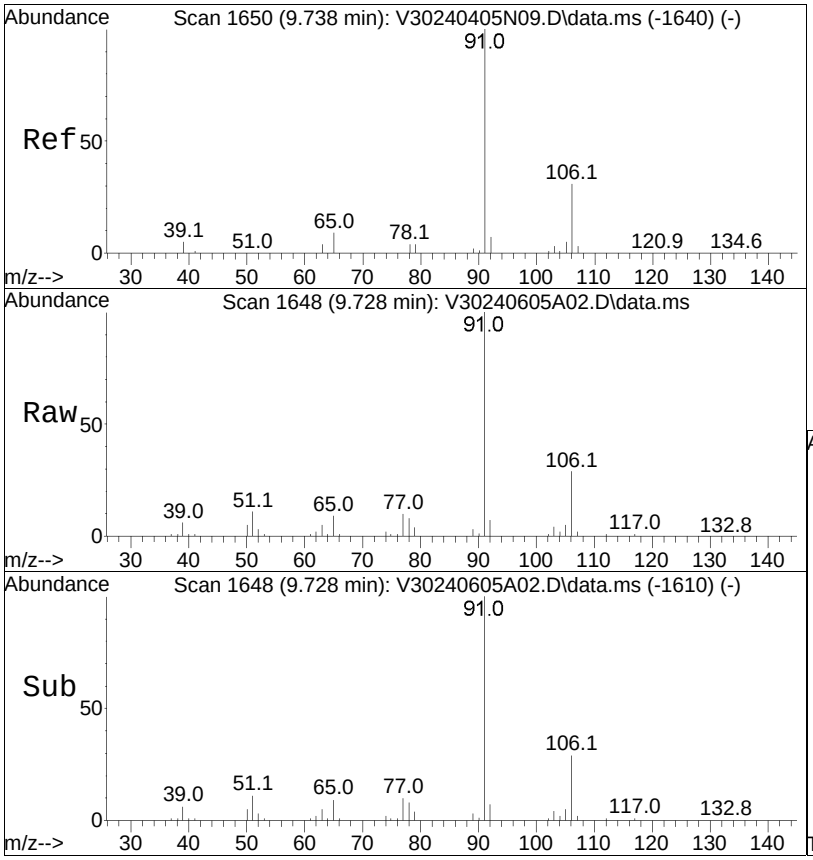


#78
Chlorobenzene
Concen: 9.28 ug/L
RT: 9.686 min Scan# 1640
Delta R.T. -0.000 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion:112 Resp: 215841

Ion	Ratio	Lower	Upper
112	100		
77	68.8	54.8	82.2
114	31.9	25.4	38.0

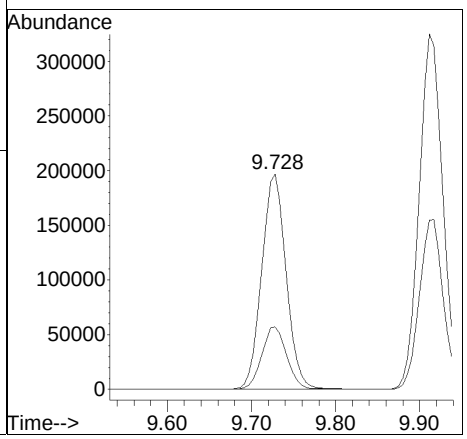


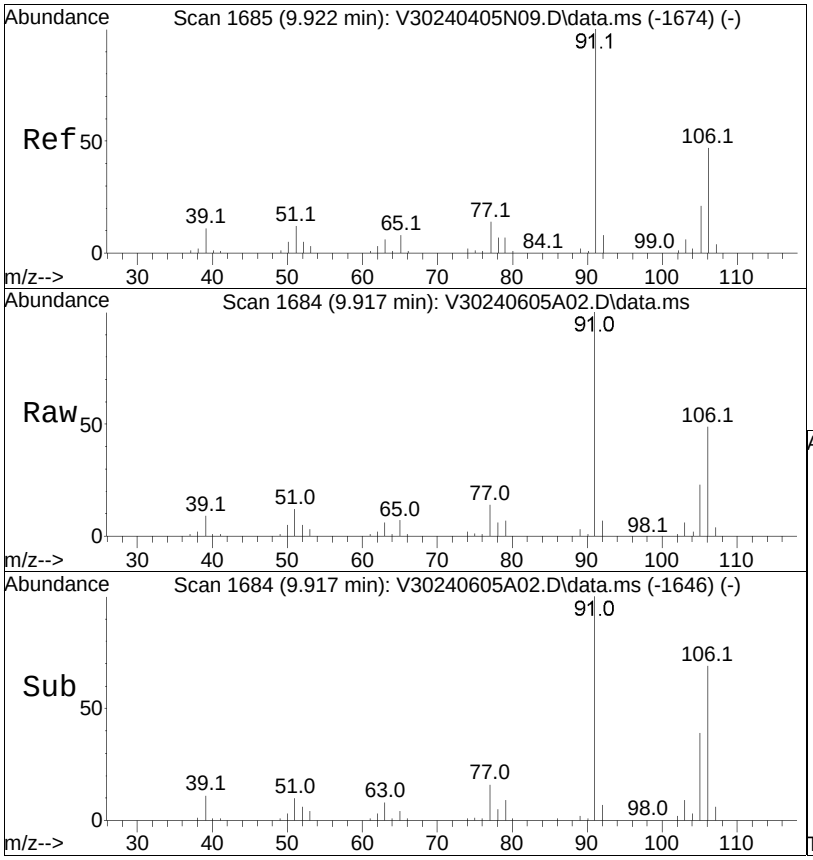


#79
Ethylbenzene
Concen: 9.97 ug/L
RT: 9.728 min Scan# 1648
Delta R.T. -0.000 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 91 Resp: 398920

Ion	Ratio	Lower	Upper
91	100		
106	29.6	23.4	35.2

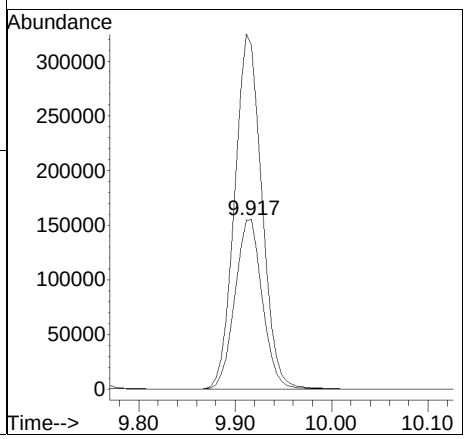


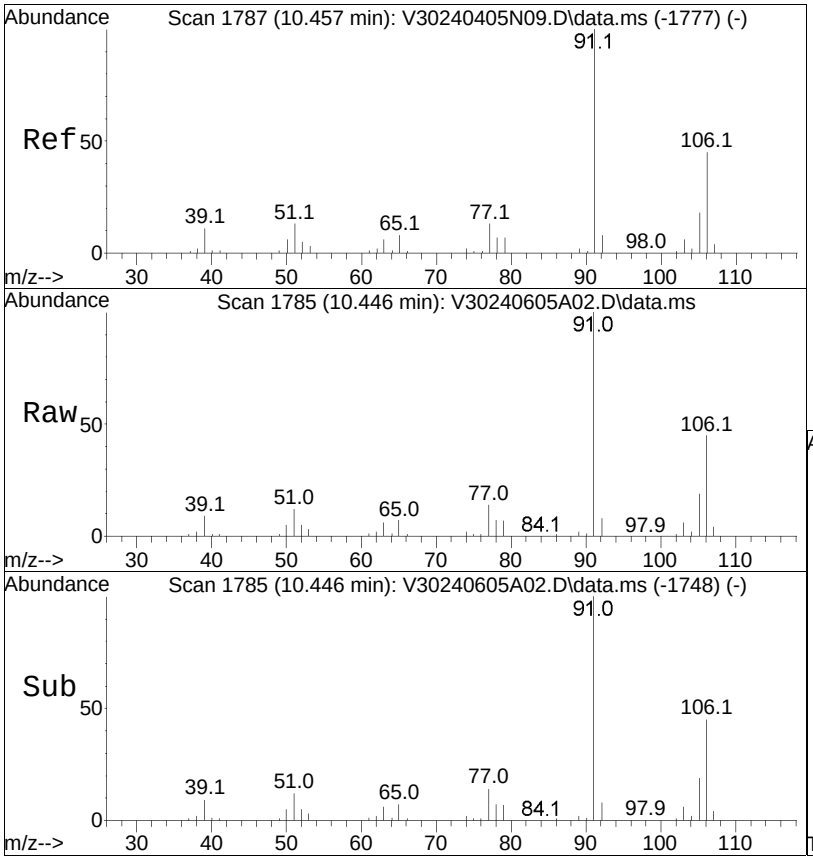


#81
p/m Xylene
Concen: 19.22 ug/L
RT: 9.917 min Scan# 1684
Delta R.T. 0.001 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion:106 Resp: 309302

Ion	Ratio	Lower	Upper
106	100		
91	206.8	171.4	257.2

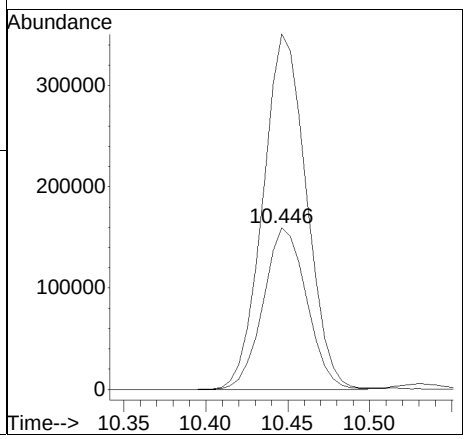


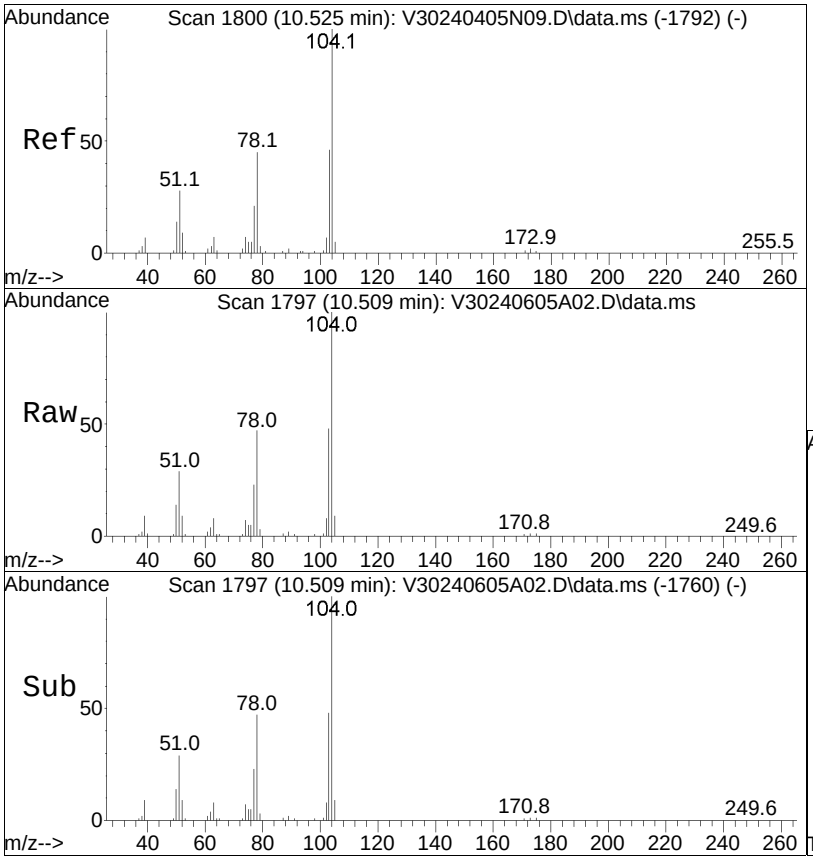


#82
o Xylene
Concen: 18.76 ug/L
RT: 10.446 min Scan# 1785
Delta R.T. -0.005 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion:106 Resp: 293856

Ion	Ratio	Lower	Upper
106	100		
91	220.5	179.2	268.8

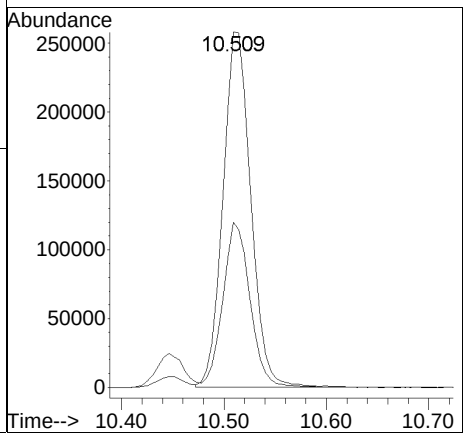


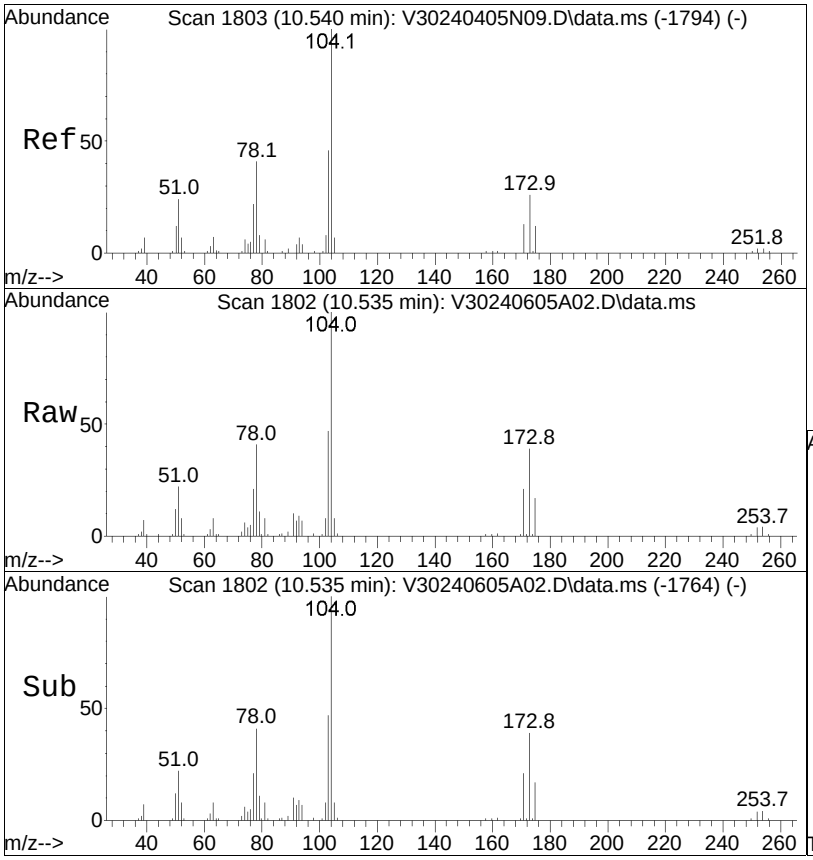


#83
Styrene
Concen: 18.93 ug/L
RT: 10.509 min Scan# 1797
Delta R.T. -0.005 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion:104 Resp: 487248

Ion	Ratio	Lower	Upper
104	100		
78	45.2	38.1	57.1

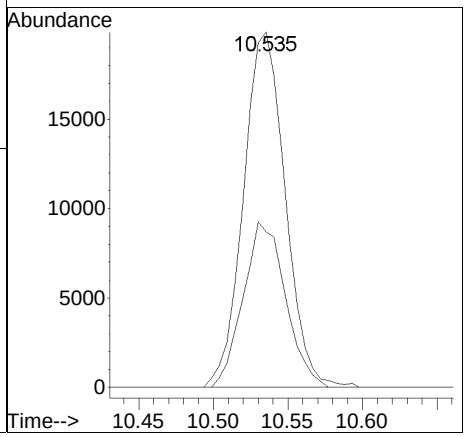


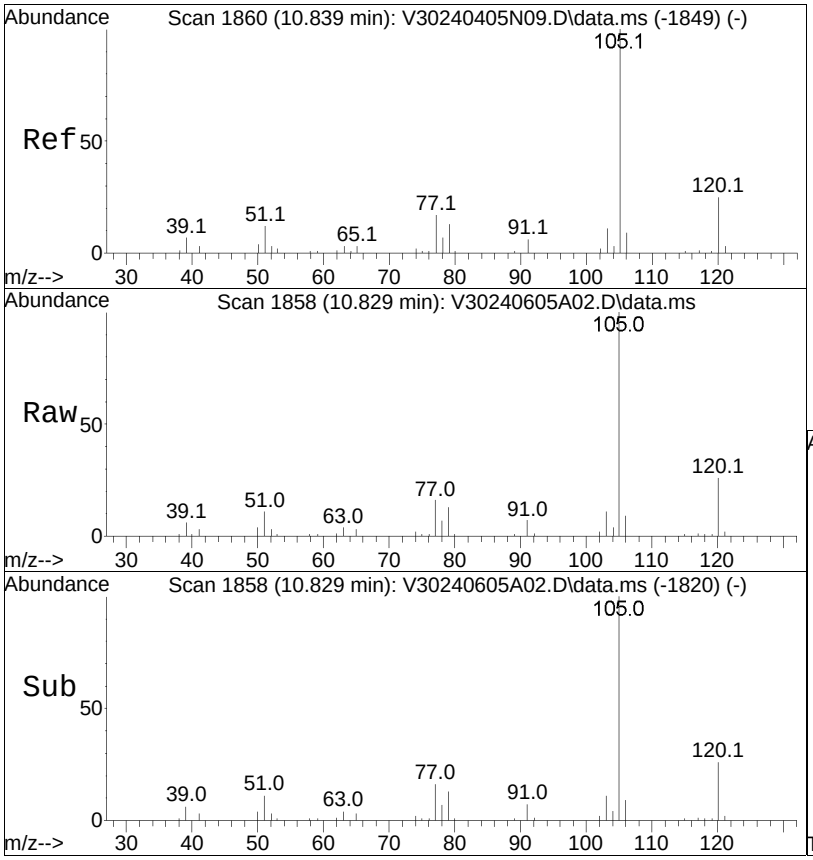


#85
Bromoform
Concen: 8.30 ug/L
RT: 10.535 min Scan# 1802
Delta R.T. 0.000 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion:173 Resp: 38776

Ion	Ratio	Lower	Upper
173	100		
175	47.1	37.8	56.6

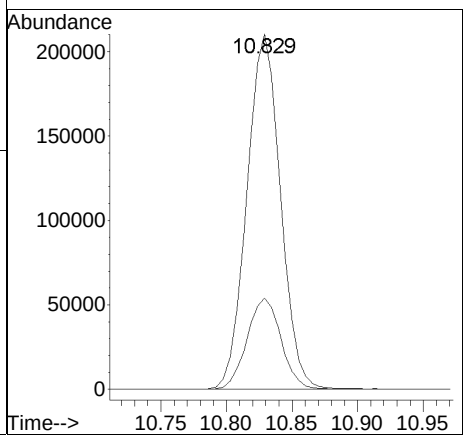


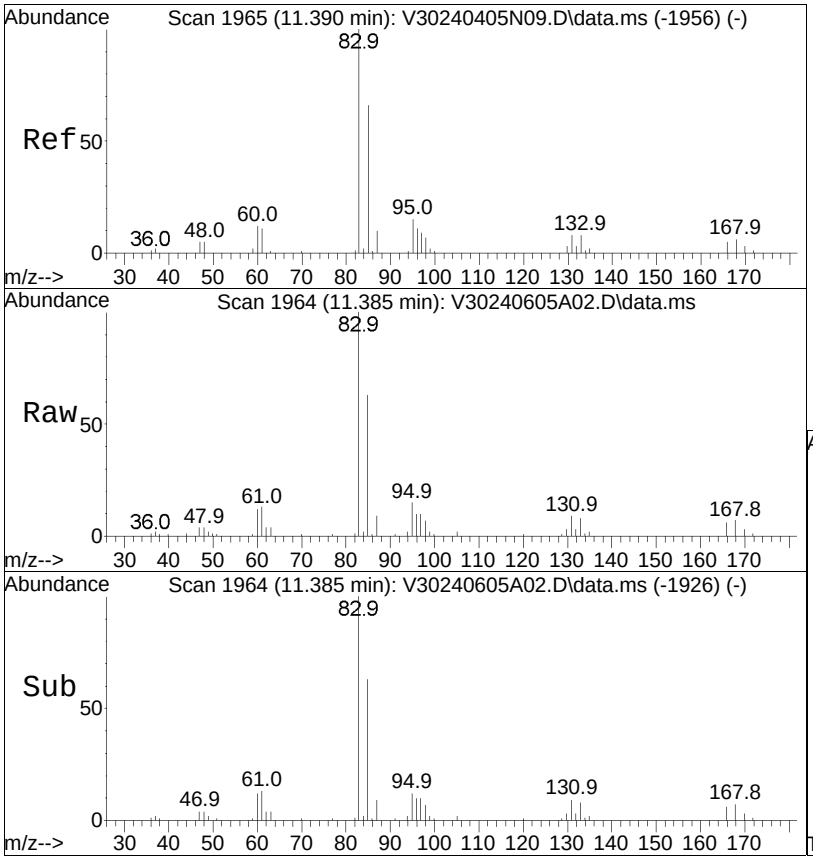


#87
Isopropylbenzene
Concen: 9.56 ug/L
RT: 10.829 min Scan# 1858
Delta R.T. -0.000 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion:105 Resp: 375372

Ion	Ratio	Lower	Upper
105	100		
120	26.0	20.0	30.0

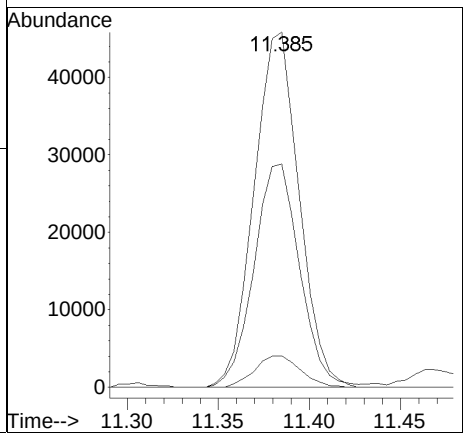


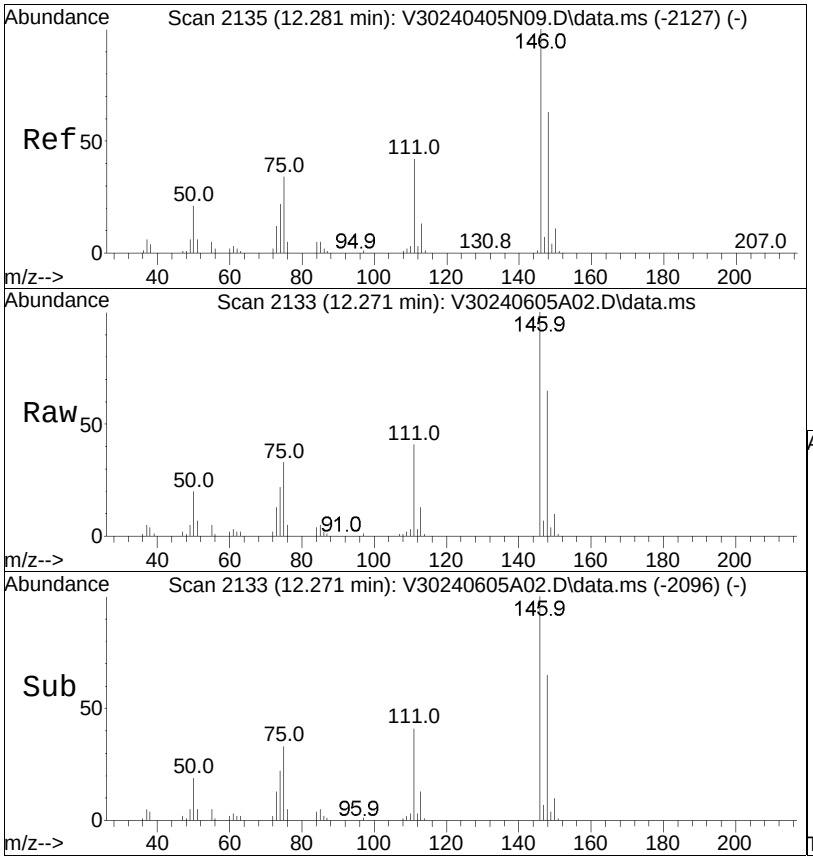


#92
1,1,2,2-Tetrachloroethane
Concen: 9.78 ug/L
RT: 11.385 min Scan# 1964
Delta R.T. -0.000 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion: 83 Resp: 78801

Ion	Ratio	Lower	Upper
83	100		
131	9.2	6.6	10.0
85	64.1	51.8	77.6

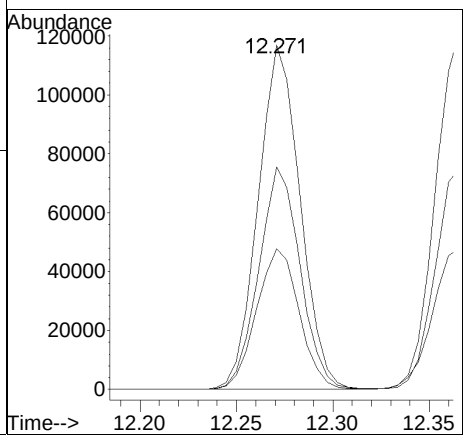


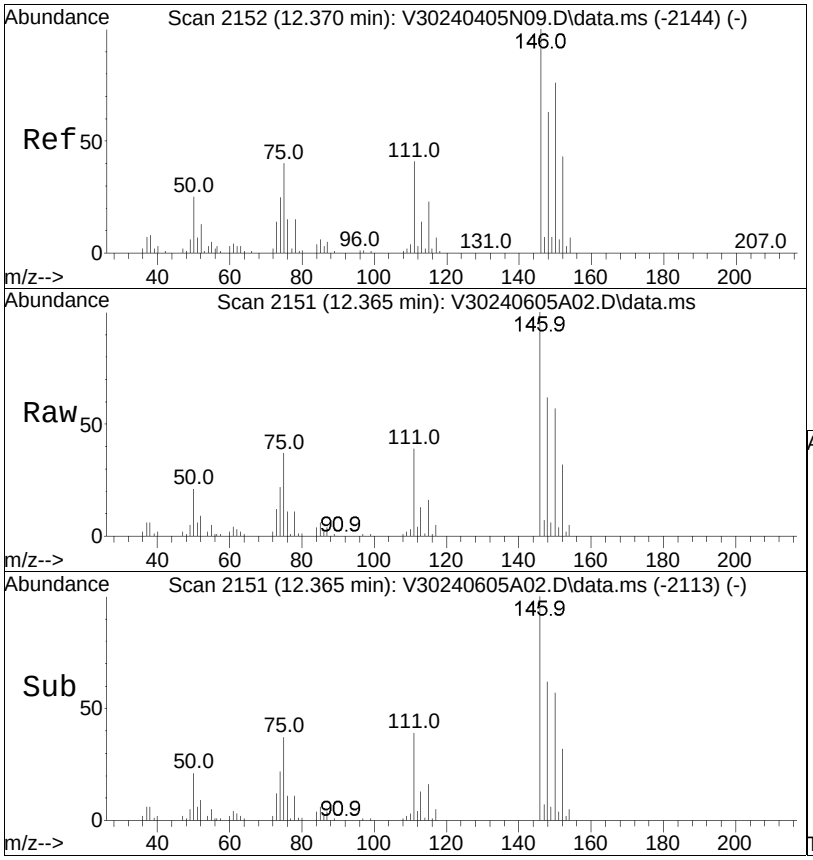


#105
1,3-Dichlorobenzene
Concen: 9.07 ug/L
RT: 12.271 min Scan# 2133
Delta R.T. -0.005 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion:146 Resp: 177124

Ion	Ratio	Lower	Upper
146	100		
111	41.5	28.0	58.1
148	63.6	40.8	84.6

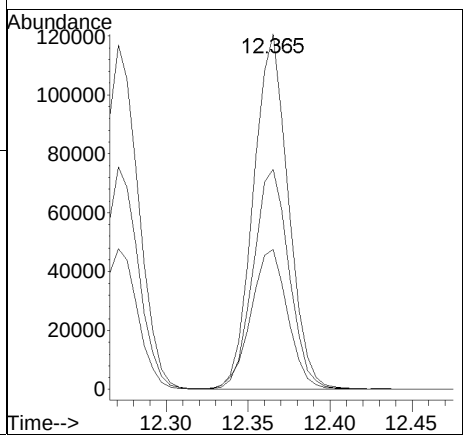


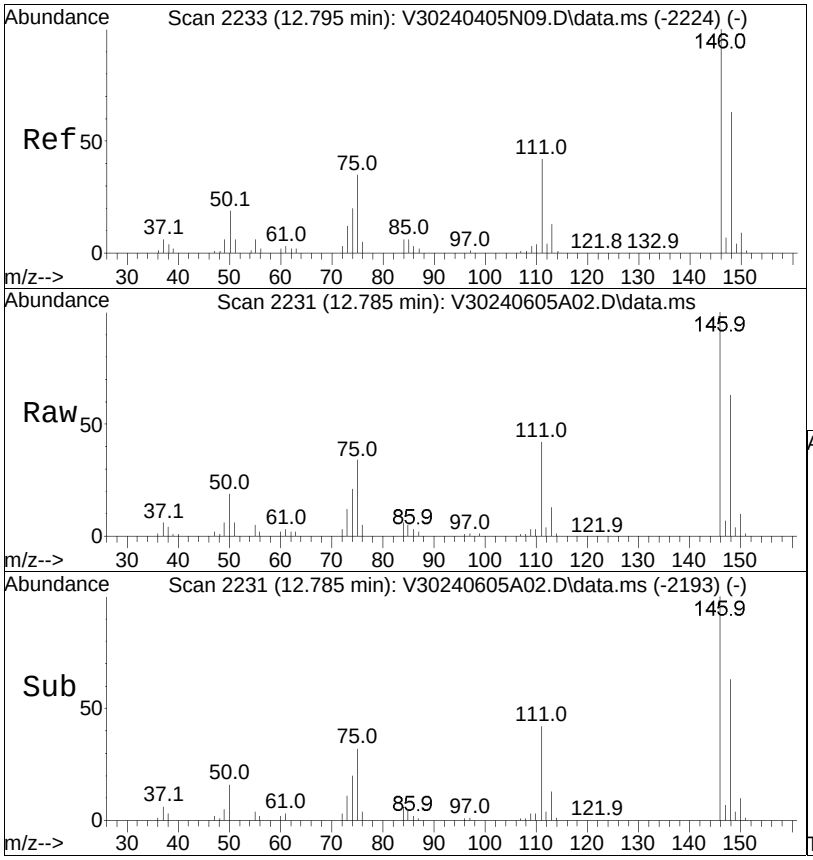


#106
1,4-Dichlorobenzene
Concen: 8.94 ug/L
RT: 12.365 min Scan# 2151
Delta R.T. 0.000 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion:146 Resp: 178105

Ion	Ratio	Lower	Upper
146	100		
111	41.9	33.7	50.5
148	64.2	50.8	76.2

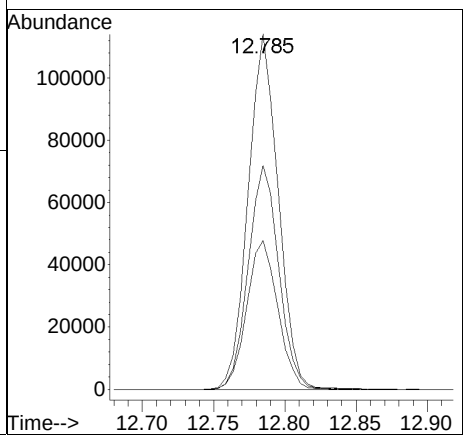


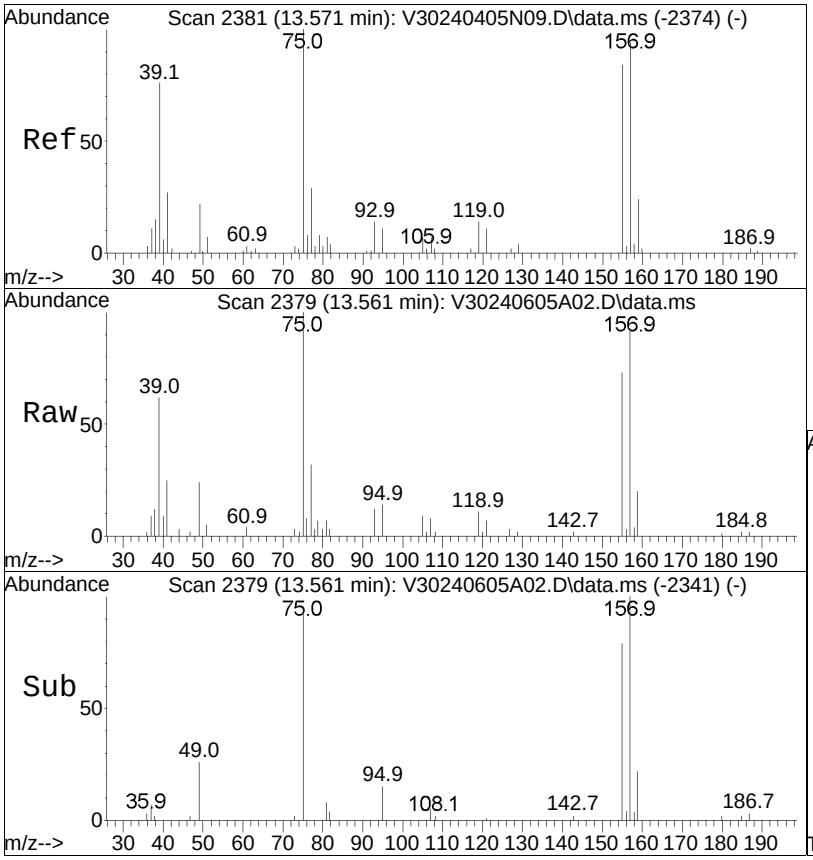


#109
1,2-Dichlorobenzene
Concen: 8.89 ug/L
RT: 12.785 min Scan# 2231
Delta R.T. 0.001 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion:146 Resp: 167786

Ion	Ratio	Lower	Upper
146	100		
111	43.3	29.5	61.3
148	63.9	41.3	85.9

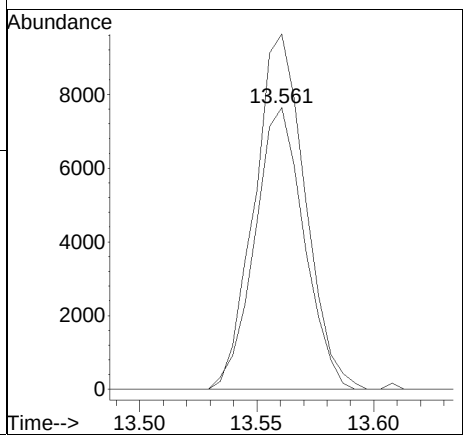


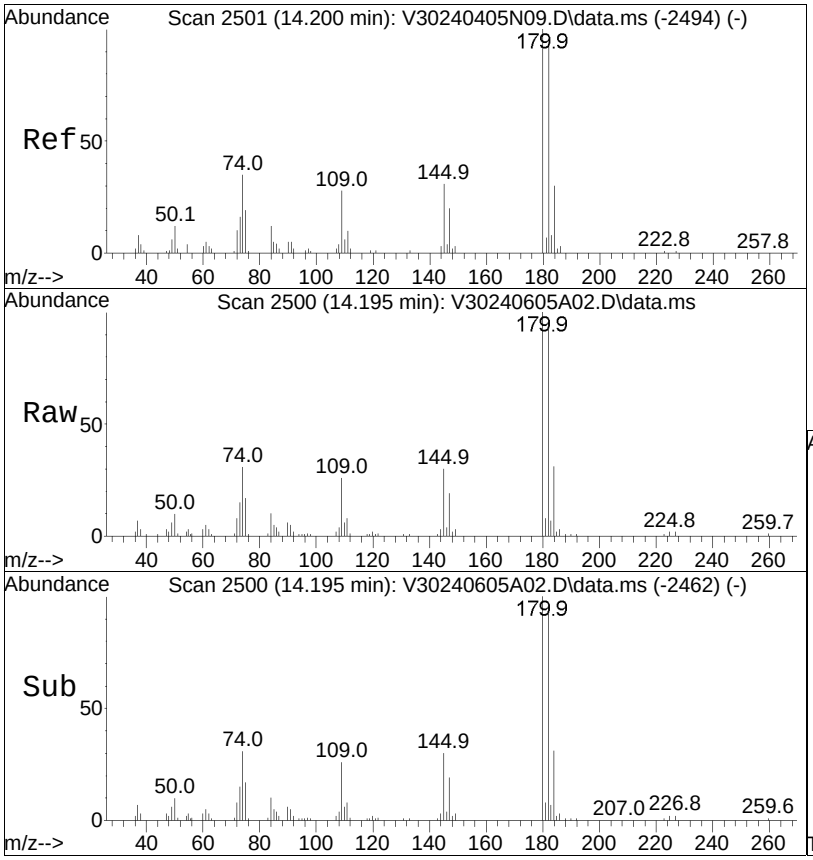


#111
1,2-Dibromo-3-chloropropane
Concen: 8.02 ug/L
RT: 13.561 min Scan# 2379
Delta R.T. 0.001 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion:155 Resp: 11199

Ion	Ratio	Lower	Upper
155	100		
157	129.4	105.1	157.7

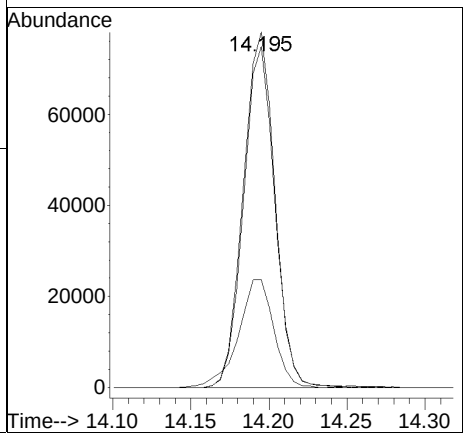


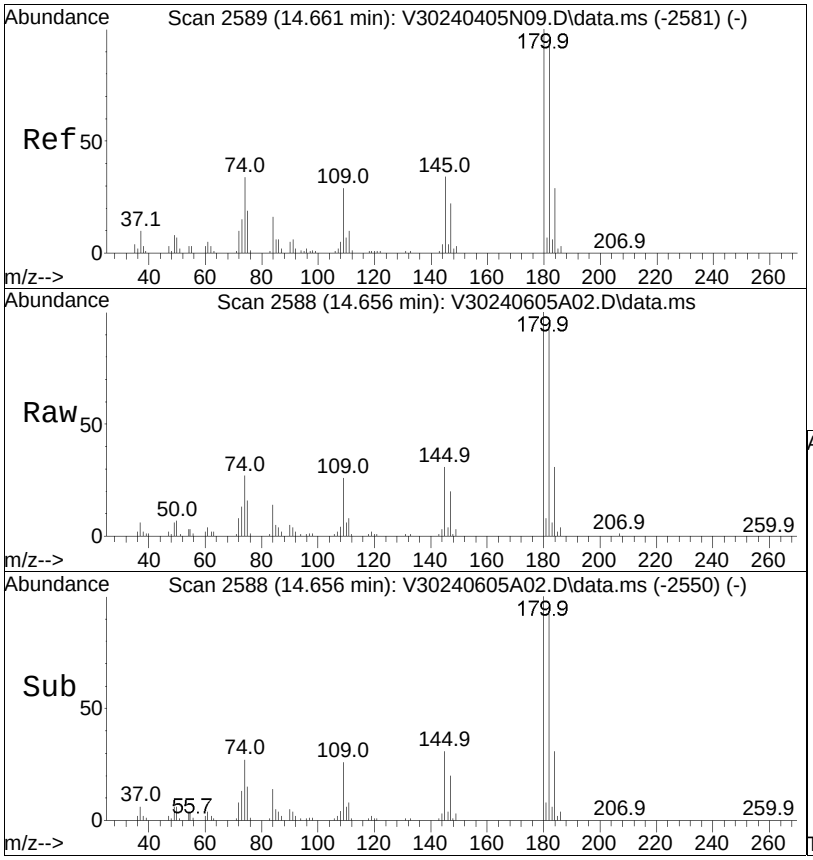


#114
1,2,4-Trichlorobenzene
Concen: 8.66 ug/L
RT: 14.195 min Scan# 2500
Delta R.T. 0.000 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion:180 Resp: 109989

Ion	Ratio	Lower	Upper
180	100		
182	94.9	75.7	113.5
145	33.8	27.4	41.2

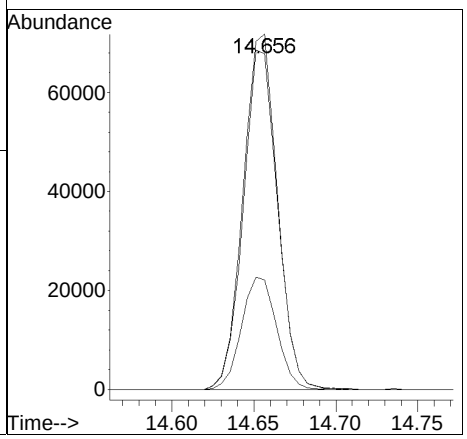




#116
1,2,3-Trichlorobenzene
Concen: 8.63 ug/L
RT: 14.656 min Scan# 2588
Delta R.T. 0.000 min
Lab File: V30240605A02.D
Acq: 05 Jun 2024 07:07 am

Tgt Ion:180 Resp: 104497

Ion	Ratio	Lower	Upper
180	100		
182	95.2	74.9	112.3
145	32.2	26.0	39.0



Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A27.D
Acq On : 05 Jun 2024 04:20 pm
Operator : VOA130:MAG
Sample : WG1930005-6,31,10,10,,a1
Misc : WG1930005,ICAL21085
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 05 17:01:24 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240605A\V30240605A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.115	96	433748	10.000	ug/L	0.00
Standard Area 1 = 517502			Recovery = 83.82%			
63) Chlorobenzene-d5	9.665	117	329696	10.000	ug/L	0.00
Standard Area 1 = 376477			Recovery = 87.57%			
84) 1,4-Dichlorobenzene-d4	12.349	152	188685	10.000	ug/L	0.00
Standard Area 1 = 209535			Recovery = 90.05%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.297	113	131813	10.602	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.02%			
47) 1,2-Dichloroethane-d4	5.827	65	173827	13.062	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 130.62%#			
64) Toluene-d8	7.814	98	431130	9.973	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.73%			
88) 4-Bromofluorobenzene	11.143	95	171444	10.011	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.11%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.680	85	93571	11.573	ug/L	97
3) Chloromethane	1.868	50	108353	13.188	ug/L	97
4) Vinyl chloride	1.947	62	107294	12.397	ug/L	100
5) Bromomethane	2.267	94	41613	8.509	ug/L	99
6) Chloroethane	2.377	64	65936M1	12.260	ug/L	
7) Trichlorofluoromethane	2.524	101	135215	13.353	ug/L	99
10) 1,1-Dichloroethene	3.027	96	73102	10.232	ug/L	90
11) Carbon disulfide	3.053	76	219072	11.262	ug/L	100
12) Freon-113	3.064	101	71700	10.159	ug/L	93
15) Methylene chloride	3.588	84	90259	10.966	ug/L	94
17) Acetone	3.625	43	20642	12.321	ug/L	94
18) trans-1,2-Dichloroethene	3.745	96	76481	9.977	ug/L	94
19) Methyl acetate	3.745	43	43414	11.736	ug/L #	91
21) Methyl tert-butyl ether	3.845	73	161574	9.435	ug/L	97
25) 1,1-Dichloroethane	4.333	63	176938	12.270	ug/L	99
30) cis-1,2-Dichloroethene	4.852	96	86074	9.690	ug/L	94
33) Bromochloromethane	5.046	128	39903	9.848	ug/L #	78
34) Cyclohexane	5.061	56	136909	10.969	ug/L	96
35) Chloroform	5.119	83	178787	12.837	ug/L	96
37) Carbon tetrachloride	5.261	117	112455	11.978	ug/L	99

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A27.D
Acq On : 05 Jun 2024 04:20 pm
Operator : VOA130:MAG
Sample : WG1930005-6,31,10,10,,a1
Misc : WG1930005,ICAL21085
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 05 17:01:24 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240605A\V30240605A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) 1,1,1-Trichloroethane	5.324	97	134026	11.587	ug/L		95
42) 2-Butanone	5.407	43	25043	11.466	ug/L		95
45) Benzene	5.691	78	307164	10.980	ug/L		98
48) 1,2-Dichloroethane	5.895	62	114435	11.762	ug/L	#	99
51) Methyl cyclohexane	6.288	83	99246	8.650	ug/L		97
52) Trichloroethene	6.299	95	76125	9.873	ug/L		97
55) 1,2-Dichloropropane	6.839	63	82670	11.174	ug/L		96
58) Bromodichloromethane	6.907	83	112105	10.976	ug/L	#	99
61) 1,4-Dioxane	7.117	88	25107	401.785	ug/L		95
62) cis-1,3-Dichloropropene	7.604	75	102823	8.974	ug/L	#	88
65) Toluene	7.872	92	180514	10.023	ug/L		98
66) 4-Methyl-2-pentanone	8.302	58	17100	9.602	ug/L	#	91
67) Tetrachloroethene	8.328	166	66470	9.000	ug/L		97
69) trans-1,3-Dichloropropene	8.354	75	90506	9.257	ug/L	#	86
72) 1,1,2-Trichloroethane	8.538	83	49604	10.203	ug/L		98
73) Chlorodibromomethane	8.752	129	62255	9.432	ug/L		98
75) 1,2-Dibromoethane	9.030	107	50450	8.913	ug/L		97
77) 2-Hexanone	9.319	43	30061	9.852	ug/L		98
78) Chlorobenzene	9.686	112	189590	9.692	ug/L	#	86
79) Ethylbenzene	9.728	91	351784	10.453	ug/L		100
81) p/m Xylene	9.916	106	269746	19.929	ug/L		98
82) o Xylene	10.451	106	255422	19.388	ug/L		100
83) Styrene	10.514	104	430964	19.912	ug/L		99
85) Bromoform	10.535	173	34862	8.717	ug/L		96
87) Isopropylbenzene	10.829	105	330538	9.843	ug/L		100
92) 1,1,2,2-Tetrachloroethane	11.379	83	74492	10.803	ug/L		99
105) 1,3-Dichlorobenzene	12.271	146	155851	9.323	ug/L		99
106) 1,4-Dichlorobenzene	12.365	146	158717	9.313	ug/L		99
109) 1,2-Dichlorobenzene	12.784	146	151767	9.403	ug/L		99
111) 1,2-Dibromo-3-chloropr...	13.560	155	10408	8.715	ug/L		99
114) 1,2,4-Trichlorobenzene	14.195	180	91947	8.460	ug/L		99
116) 1,2,3-Trichlorobenzene	14.656	180	89912	8.681	ug/L		98

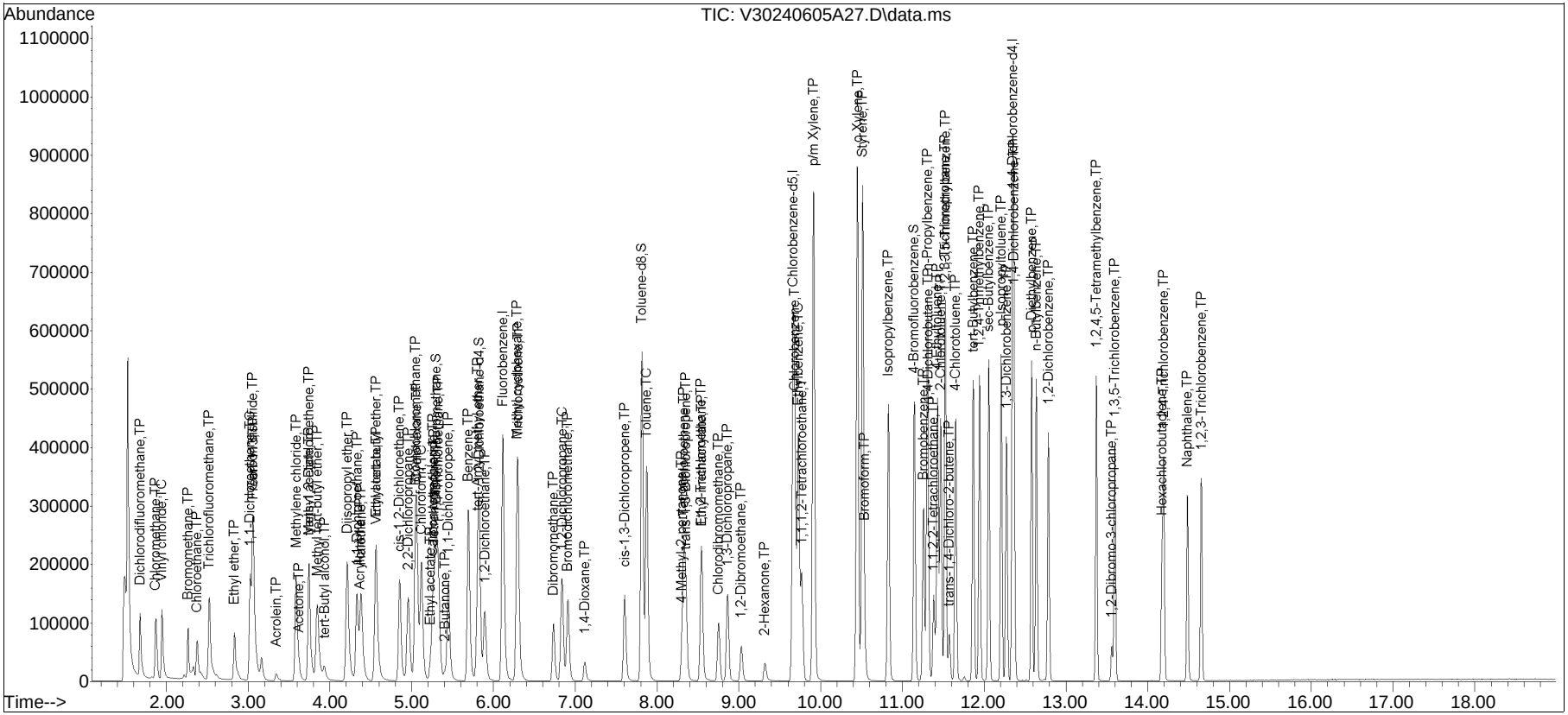
(#) = qualifier out of range (m) = manual integration (+) = signals summed

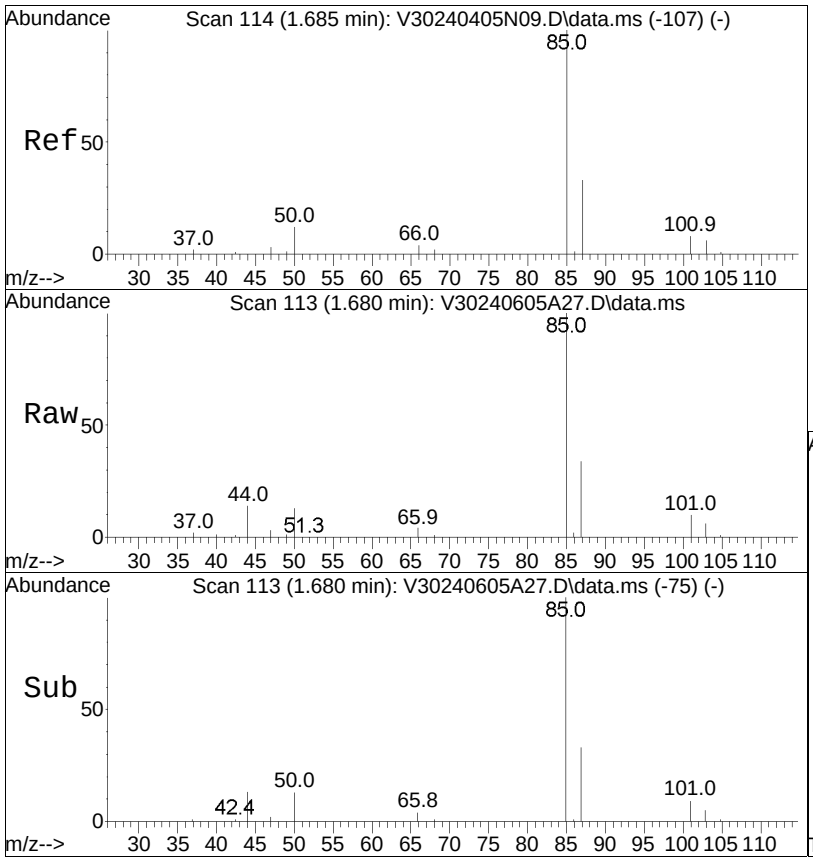
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A27.D
Acq On : 05 Jun 2024 04:20 pm
Operator : VOA130:MAG
Sample : WG1930005-6,31,10,10,,a1
Misc : WG1930005,ICAL21085
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 05 17:01:24 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

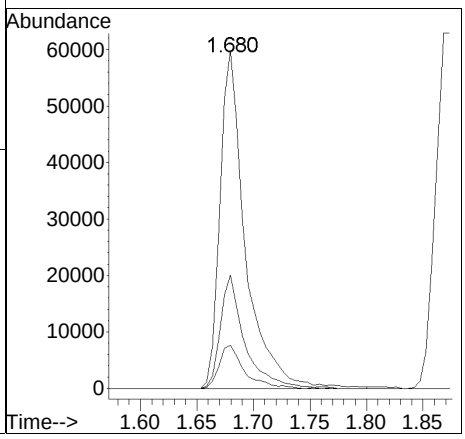


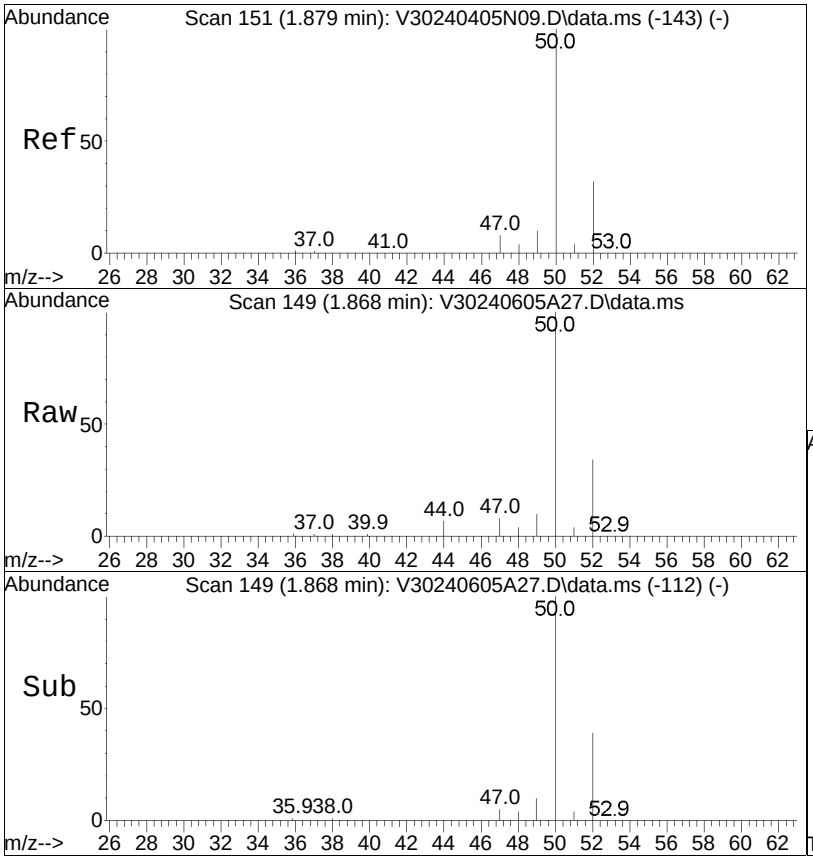


#2
Dichlorodifluoromethane
Concen: 11.57 ug/L
RT: 1.680 min Scan# 113
Delta R.T. -0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 85 Resp: 93571

Ion	Ratio	Lower	Upper
85	100		
87	32.0	20.2	42.0
50	12.6	10.1	20.9

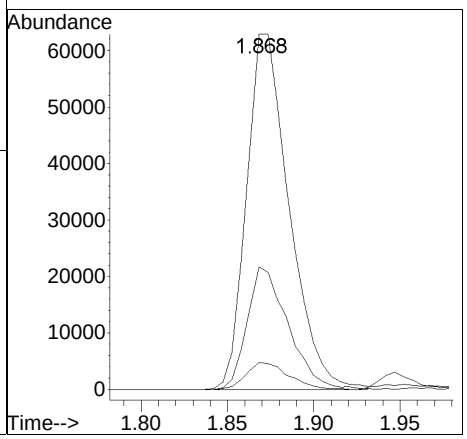


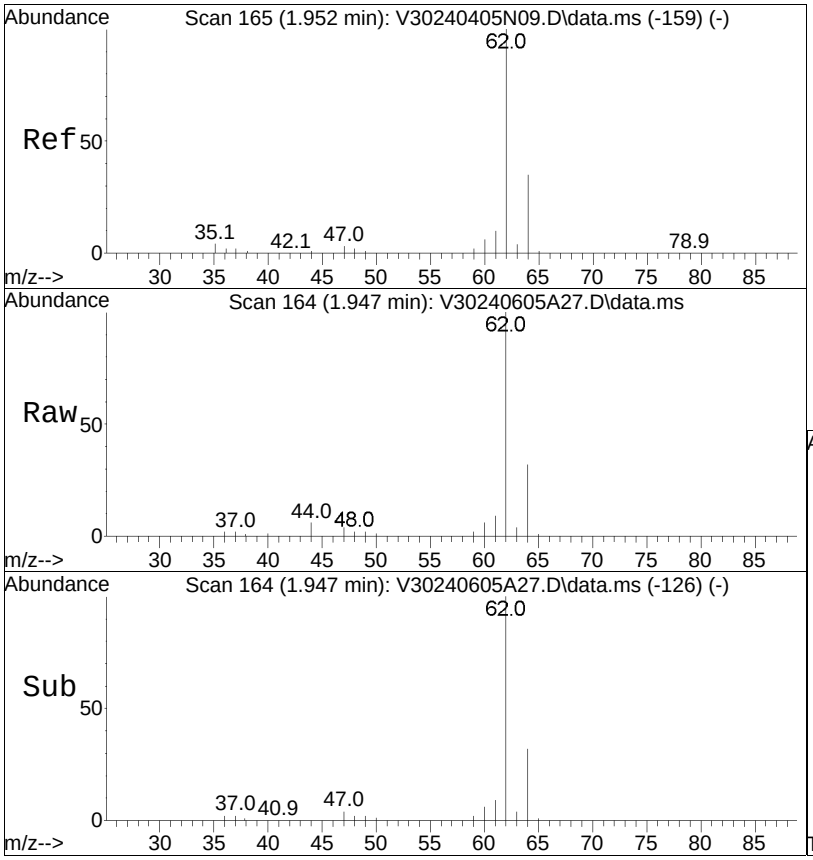


#3
Chloromethane
Concen: 13.19 ug/L
RT: 1.868 min Scan# 149
Delta R.T. -0.006 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 50 Resp: 108353

Ion	Ratio	Lower	Upper
50	100		
52	33.0	25.1	37.7
47	7.6	6.5	9.7

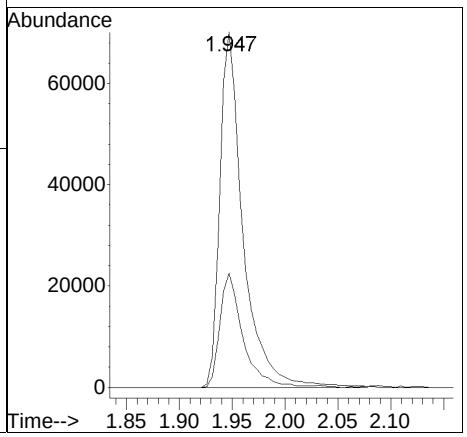


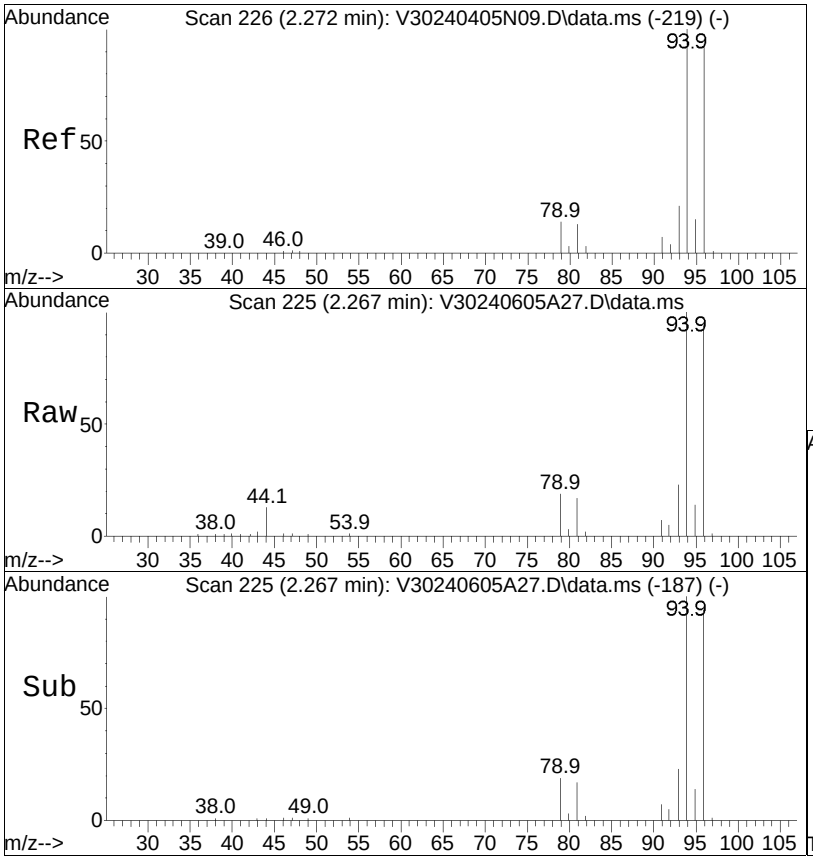


#4
Vinyl chloride
Concen: 12.40 ug/L
RT: 1.947 min Scan# 164
Delta R.T. -0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 62 Resp: 107294

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.7	38.5

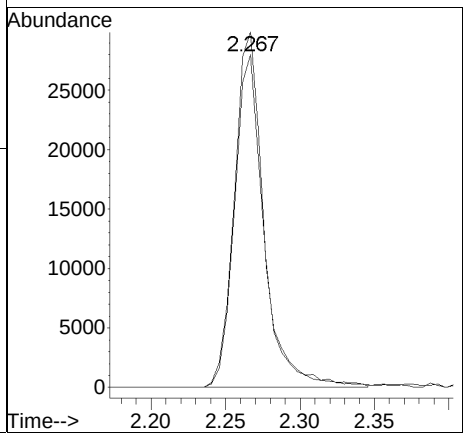


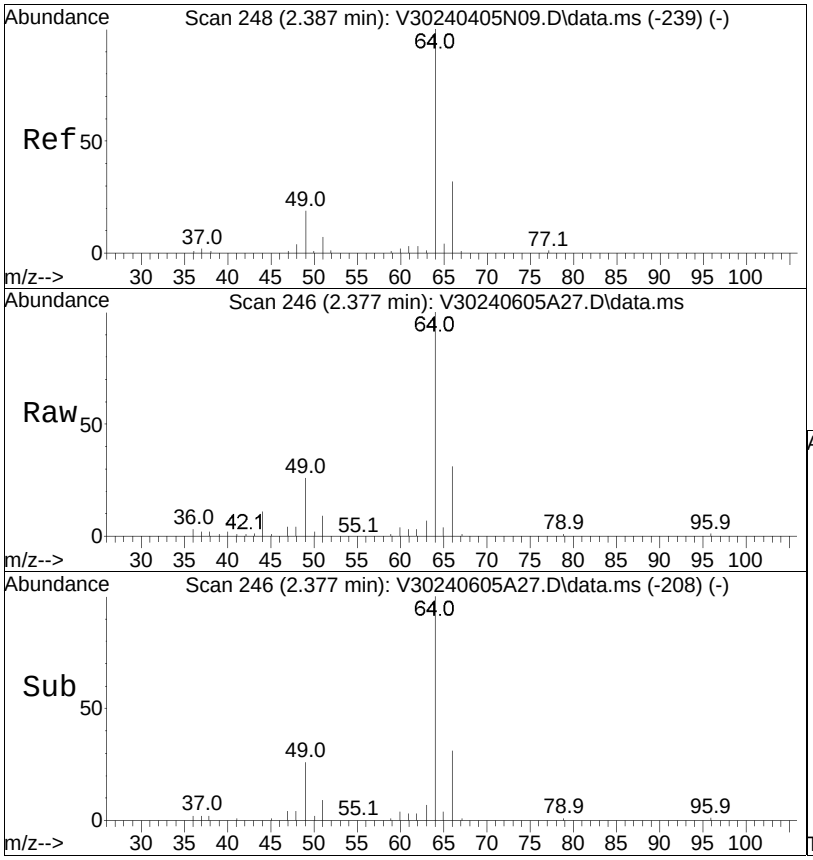


#5
Bromomethane
Concen: 8.51 ug/L
RT: 2.267 min Scan# 225
Delta R.T. -0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 94 Resp: 41613

Ion	Ratio	Lower	Upper
94	100		
96	93.3	73.7	110.5

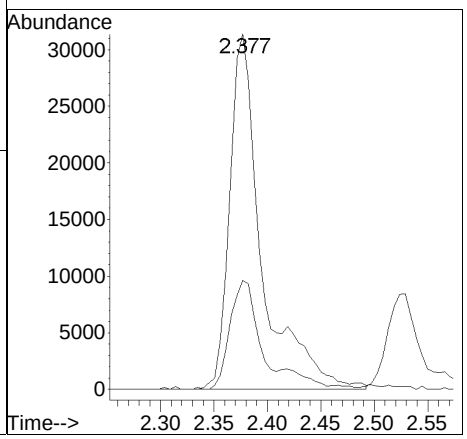


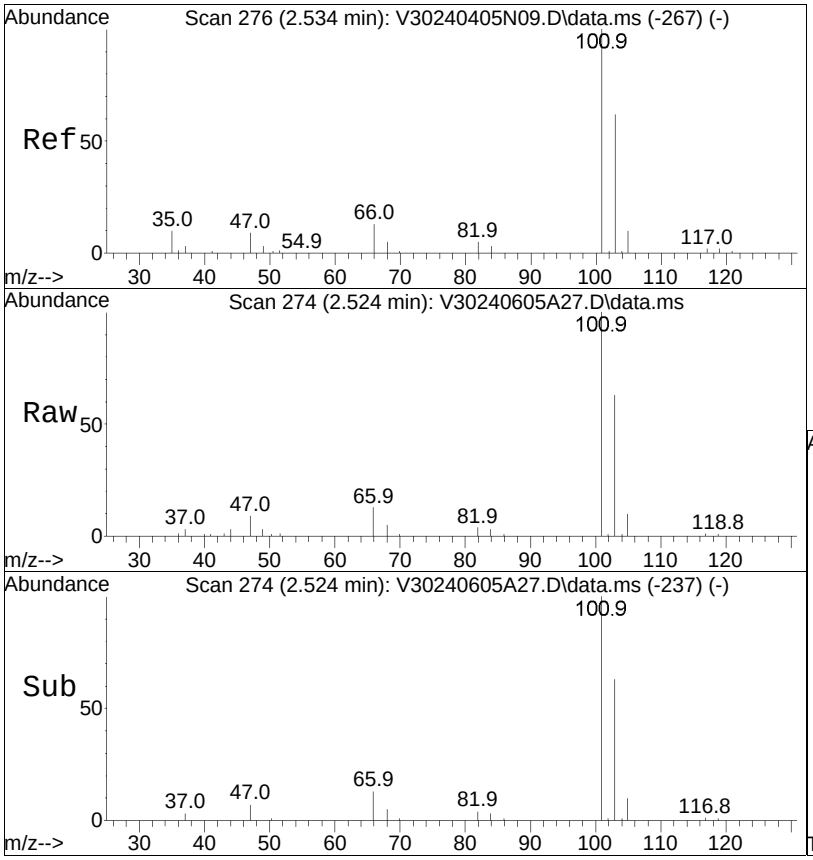


#6
Chloroethane
Concen: 12.26 ug/L M1
RT: 2.377 min Scan# 246
Delta R.T. -0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 64 Resp: 65936

Ion	Ratio	Lower	Upper
64	100		
66	26.4	25.3	37.9

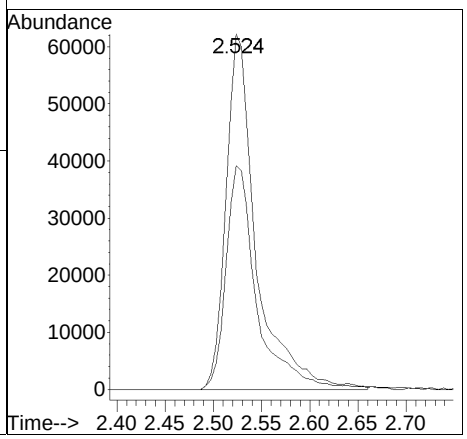


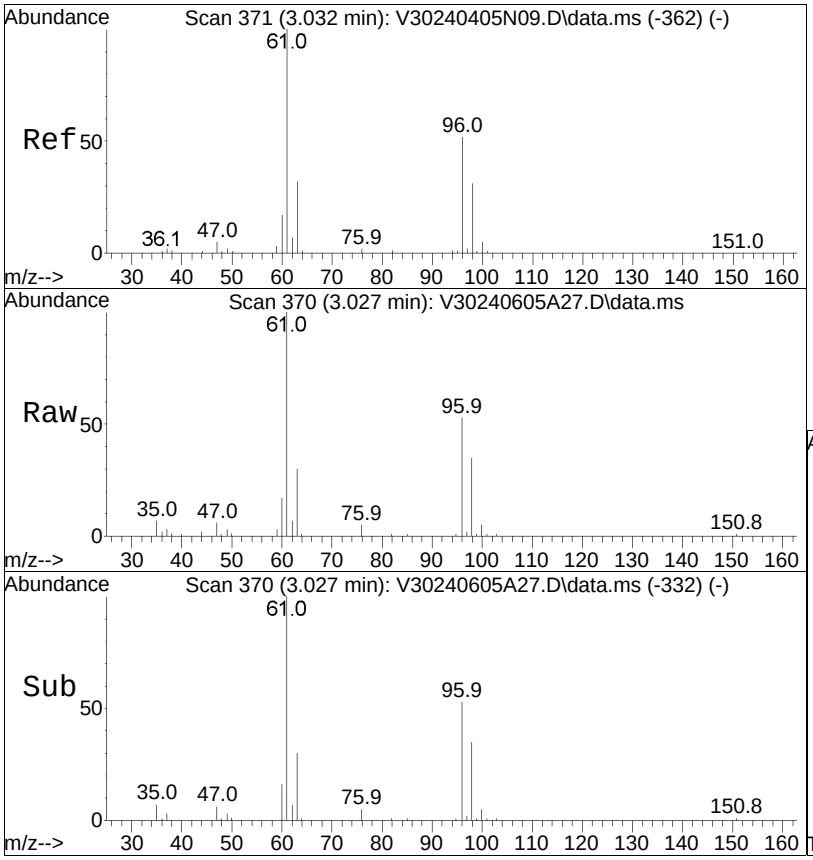


#7
Trichlorofluoromethane
Concen: 13.35 ug/L
RT: 2.524 min Scan# 274
Delta R.T. -0.005 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion:101 Resp: 135215

Ion	Ratio	Lower	Upper
101	100		
103	64.6	51.0	76.4

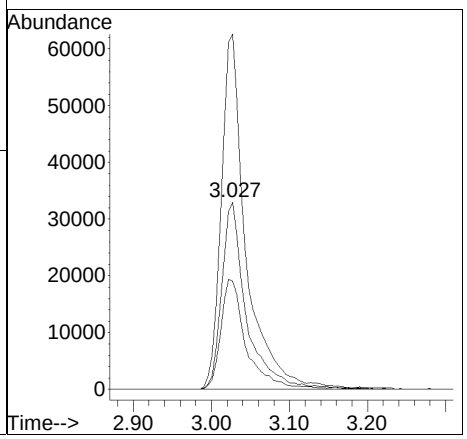


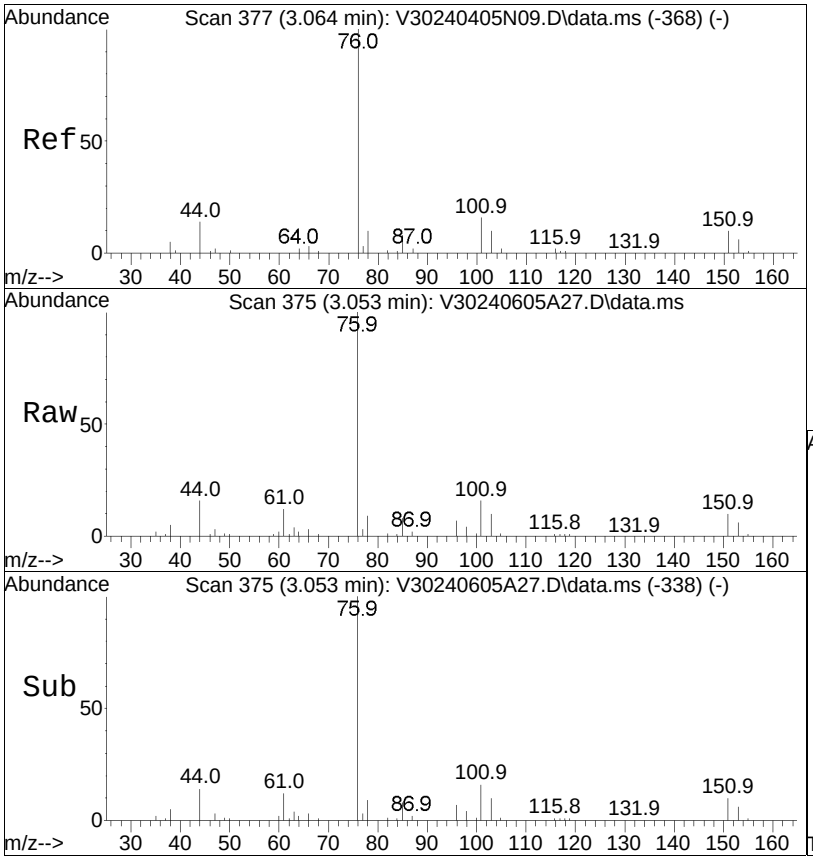


#10
1,1-Dichloroethene
Concen: 10.23 ug/L
RT: 3.027 min Scan# 370
Delta R.T. 0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 96 Resp: 73102

Ion	Ratio	Lower	Upper
96	100		
61	188.7	165.5	248.3
63	60.4	51.9	77.9

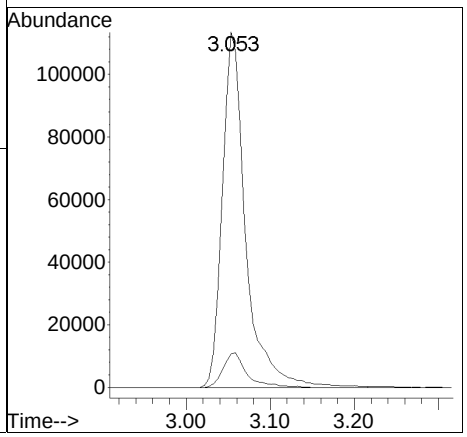


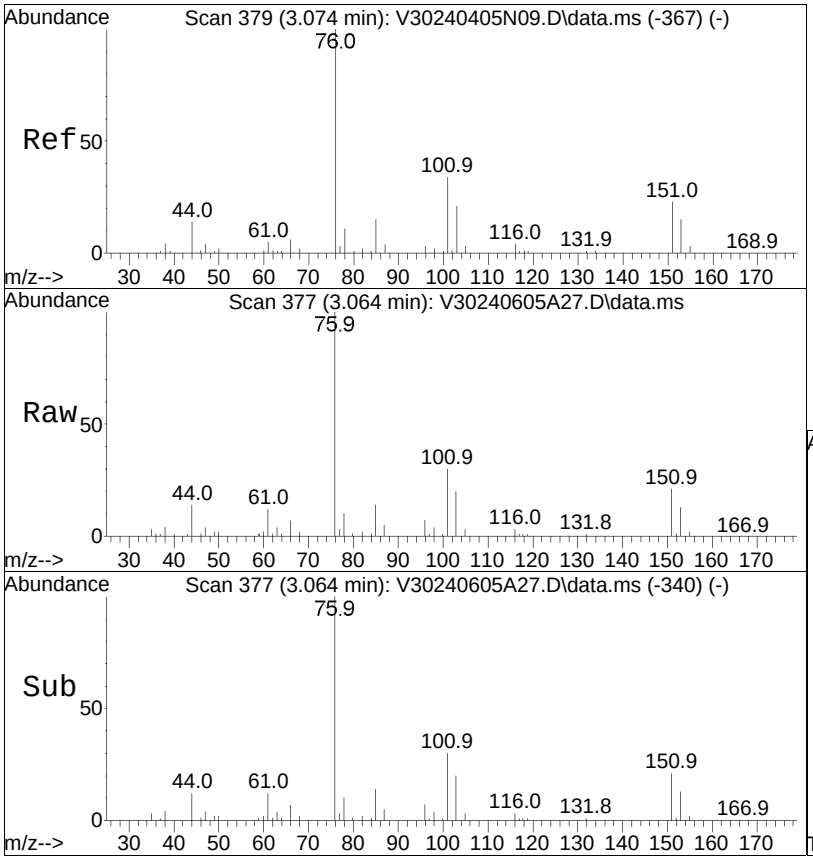


#11
Carbon disulfide
Concen: 11.26 ug/L
RT: 3.053 min Scan# 375
Delta R.T. -0.005 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 76 Resp: 219072

Ion	Ratio	Lower	Upper
76	100		
78	9.9	6.4	13.4

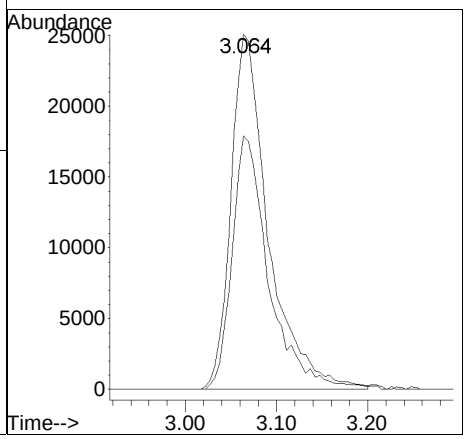


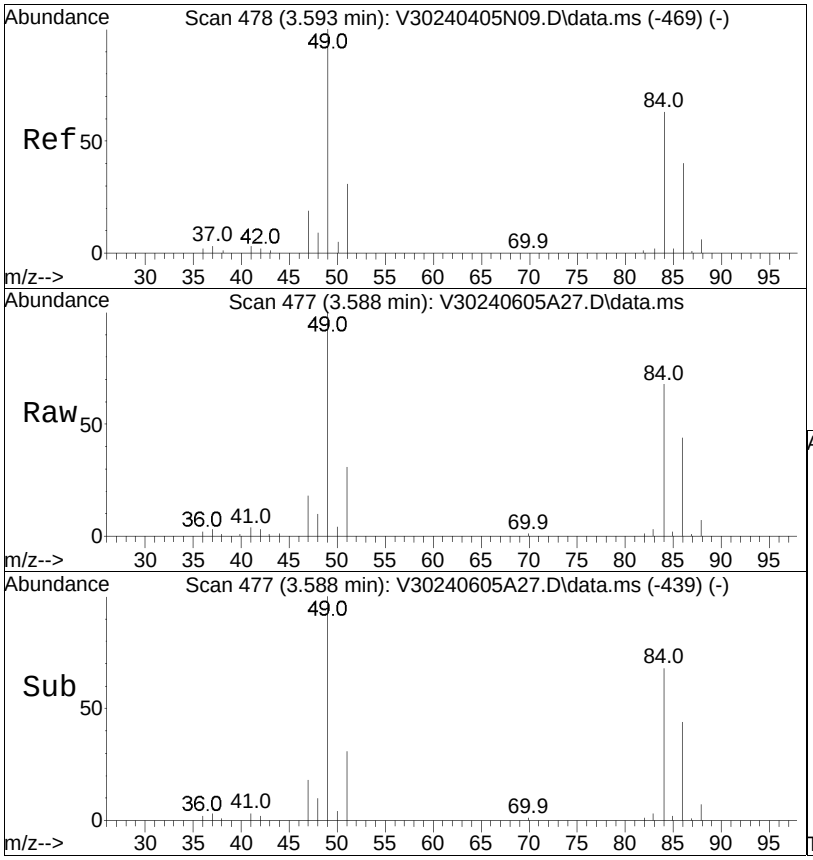


#12
Freon-113
Concen: 10.16 ug/L
RT: 3.064 min Scan# 377
Delta R.T. -0.005 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion:101 Resp: 71700

Ion	Ratio	Lower	Upper
101	100		
151	70.0	51.9	77.9

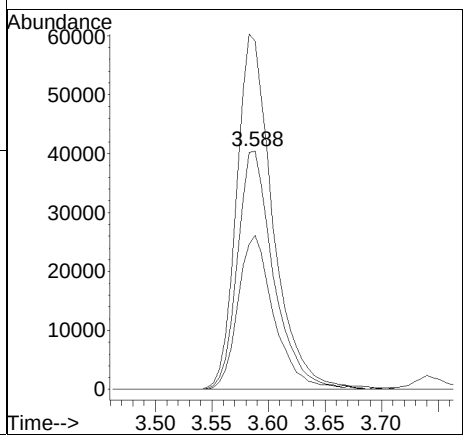


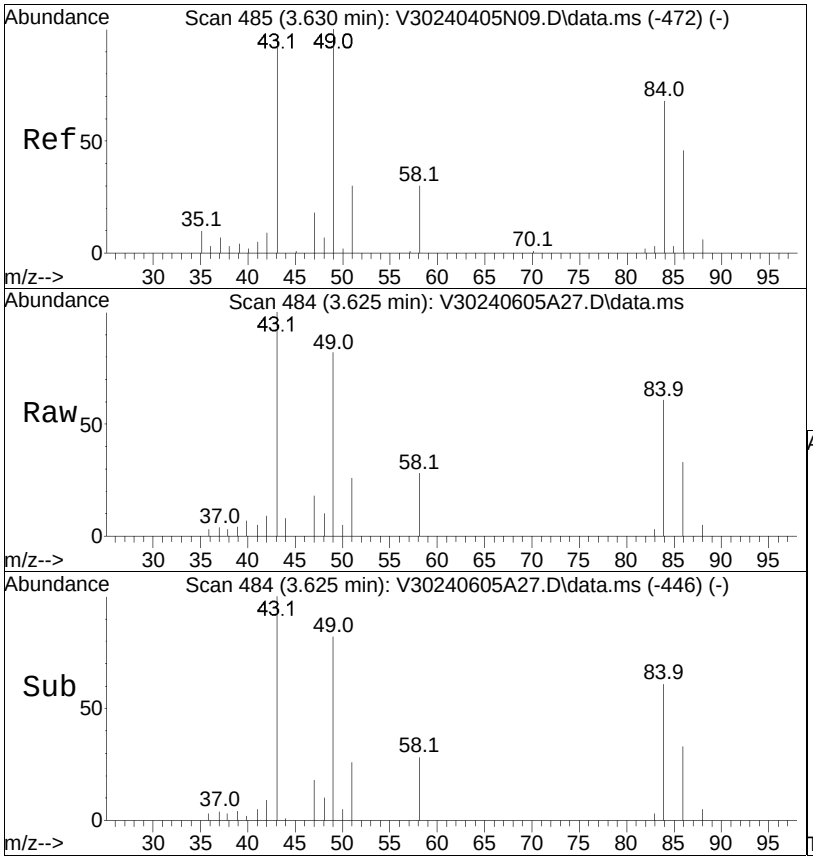


#15
Methylene chloride
Concen: 10.97 ug/L
RT: 3.588 min Scan# 477
Delta R.T. 0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 84 Resp: 90259

Ion	Ratio	Lower	Upper
84	100		
86	64.5	41.7	86.5
49	149.3	103.9	215.9

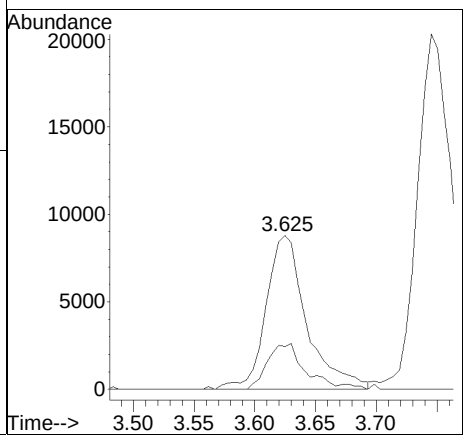


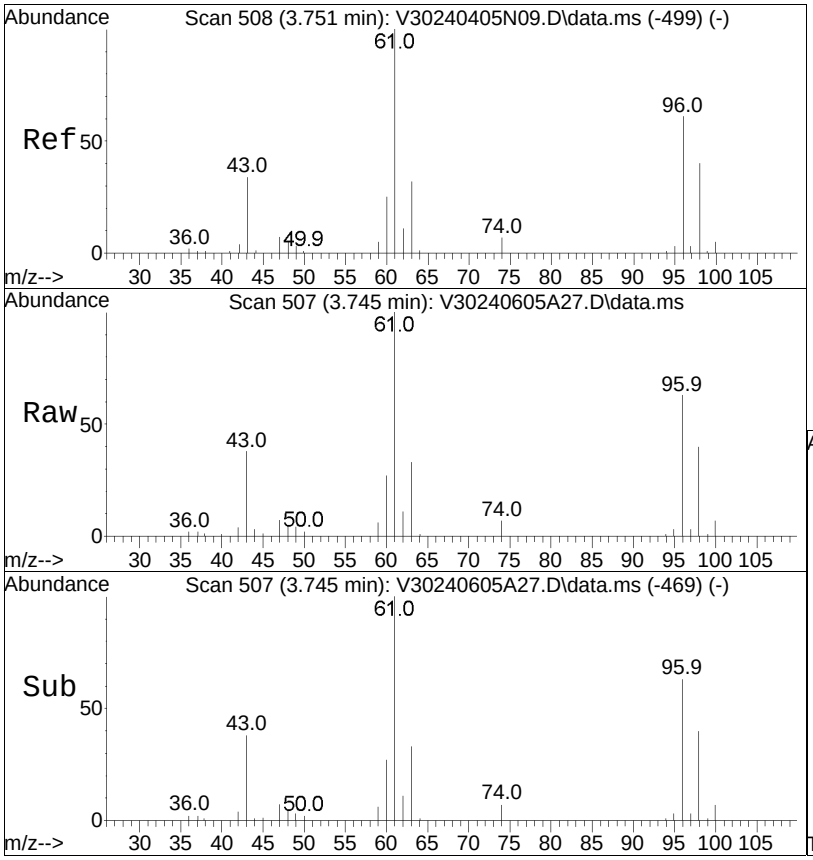


#17
Acetone
Concen: 12.32 ug/L
RT: 3.625 min Scan# 484
Delta R.T. -0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 43 Resp: 20642

Ion	Ratio	Lower	Upper
43	100		
58	28.1	20.1	30.1

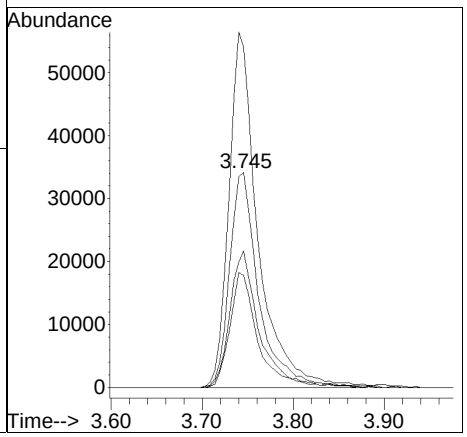


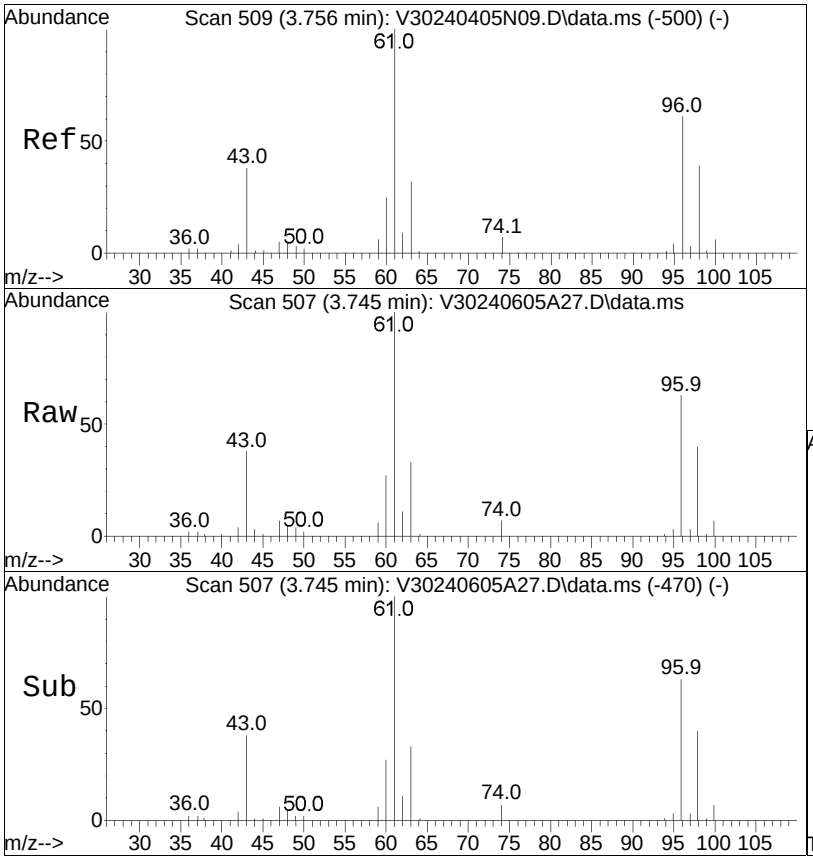


#18
trans-1,2-Dichloroethene
Concen: 9.98 ug/L
RT: 3.745 min Scan# 507
Delta R.T. 0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 96 Resp: 76481

Ion	Ratio	Lower	Upper
96	100		
61	164.0	113.6	236.0
98	62.4	40.8	84.8
63	51.1	36.5	75.7

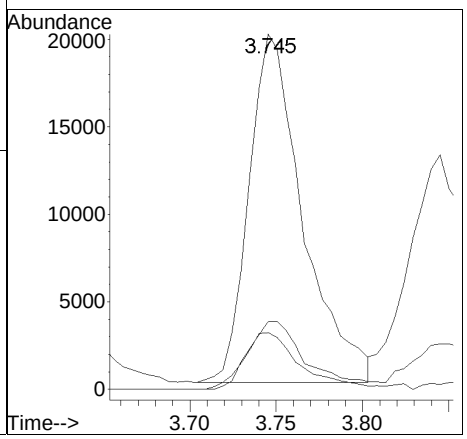


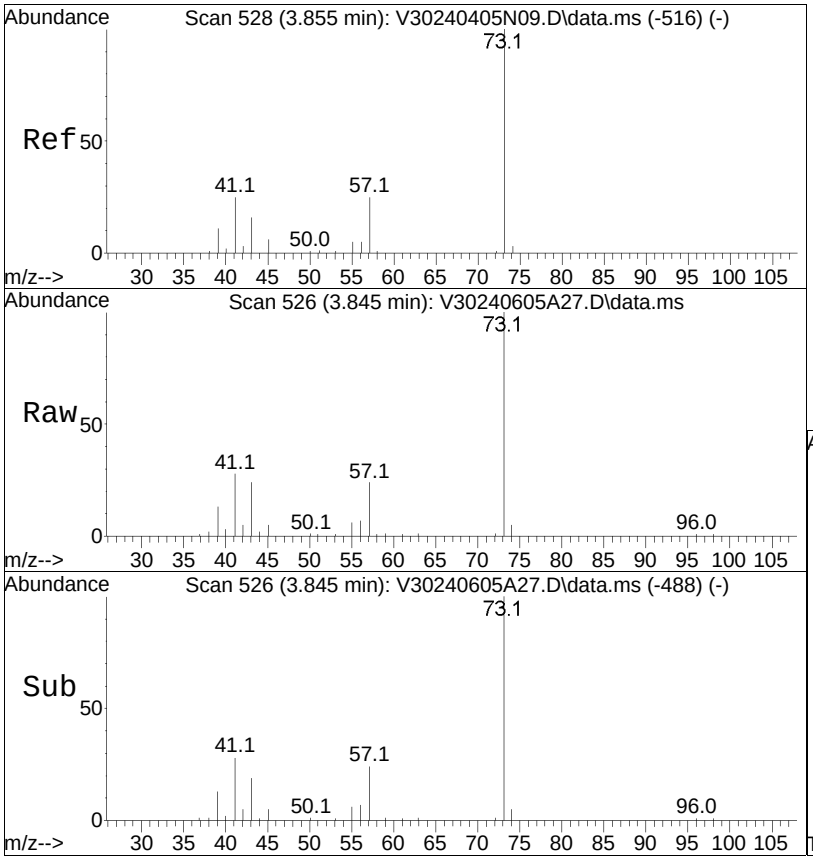


#19
Methyl acetate
Concen: 11.74 ug/L
RT: 3.745 min Scan# 507
Delta R.T. -0.006 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 43 Resp: 43414

Ion	Ratio	Lower	Upper
43	100		
74	21.0	14.6	22.0
59	17.2	9.3	13.9#

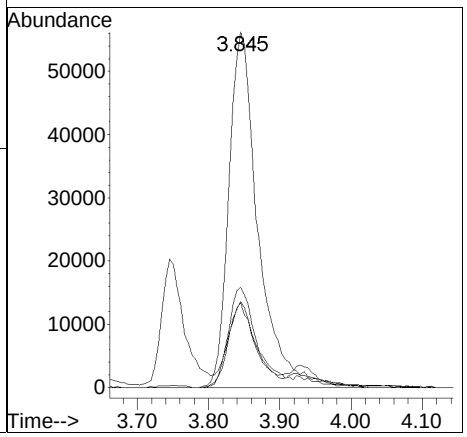


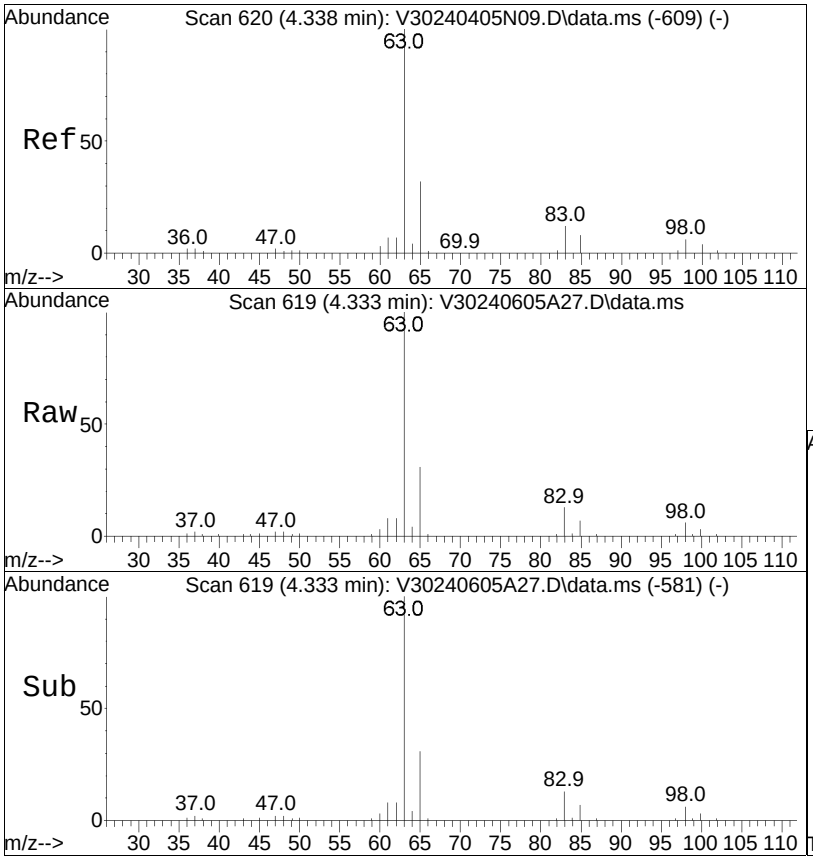


#21
Methyl tert-butyl ether
Concen: 9.44 ug/L
RT: 3.845 min Scan# 526
Delta R.T. -0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 73 Resp: 161574

Ion	Ratio	Lower	Upper
73	100		
57	22.6	15.5	32.1
43	22.1	16.6	34.6
41	26.8	17.2	35.6

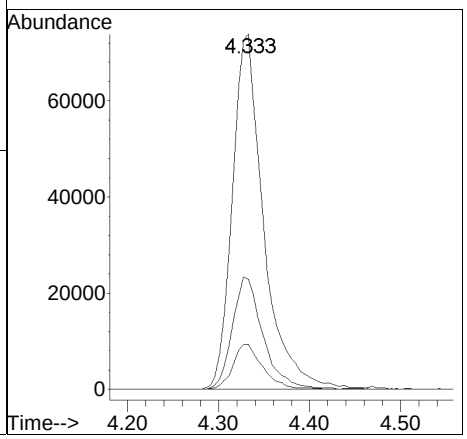


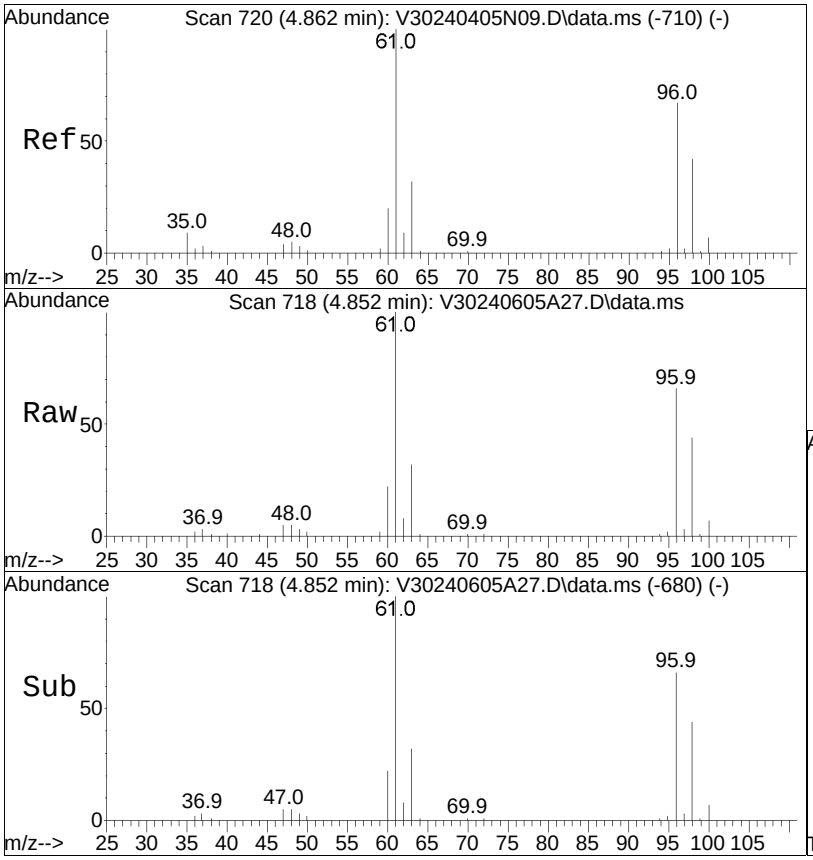


#25
1,1-Dichloroethane
Concen: 12.27 ug/L
RT: 4.333 min Scan# 619
Delta R.T. -0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 63 Resp: 176938

Ion	Ratio	Lower	Upper
63	100		
65	31.0	24.5	36.7
83	12.2	8.9	13.3

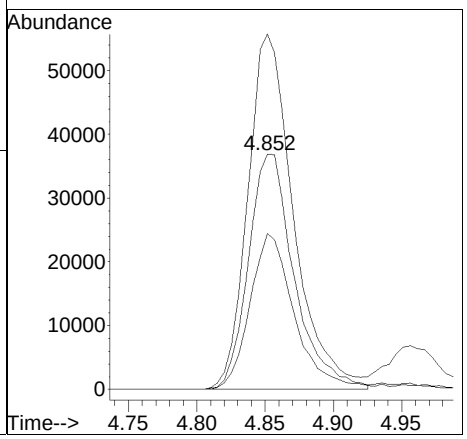


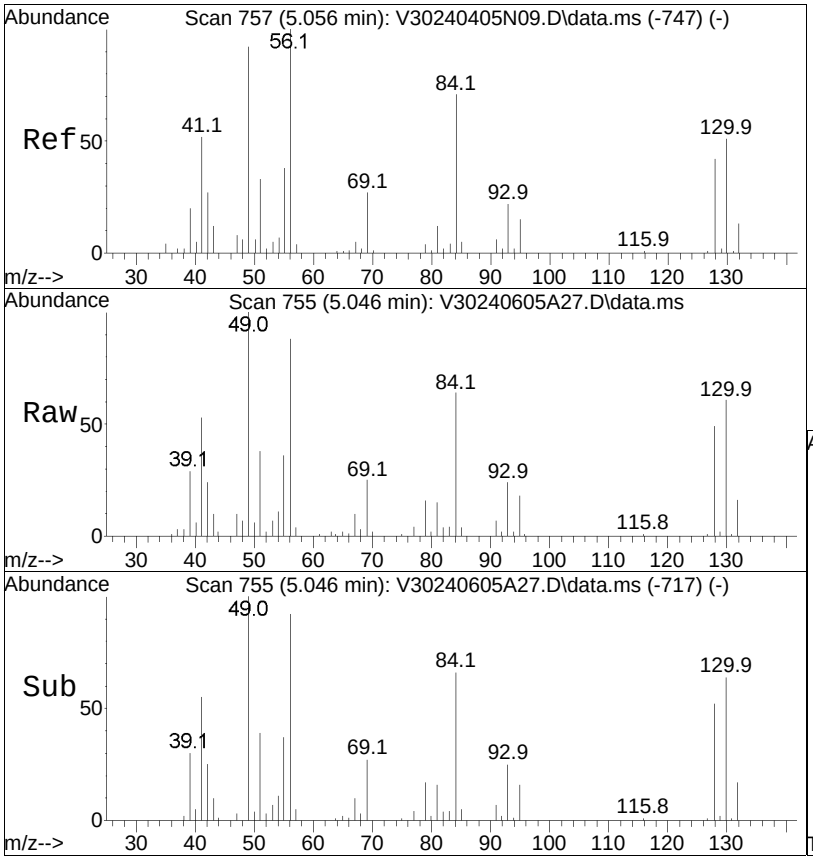


#30
cis-1,2-Dichloroethene
Concen: 9.69 ug/L
RT: 4.852 min Scan# 718
Delta R.T. -0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 96 Resp: 86074

Ion	Ratio	Lower	Upper
96	100		
61	150.6	129.3	193.9
98	64.2	51.4	77.2

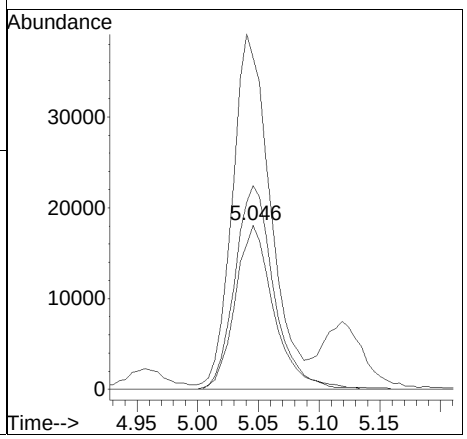


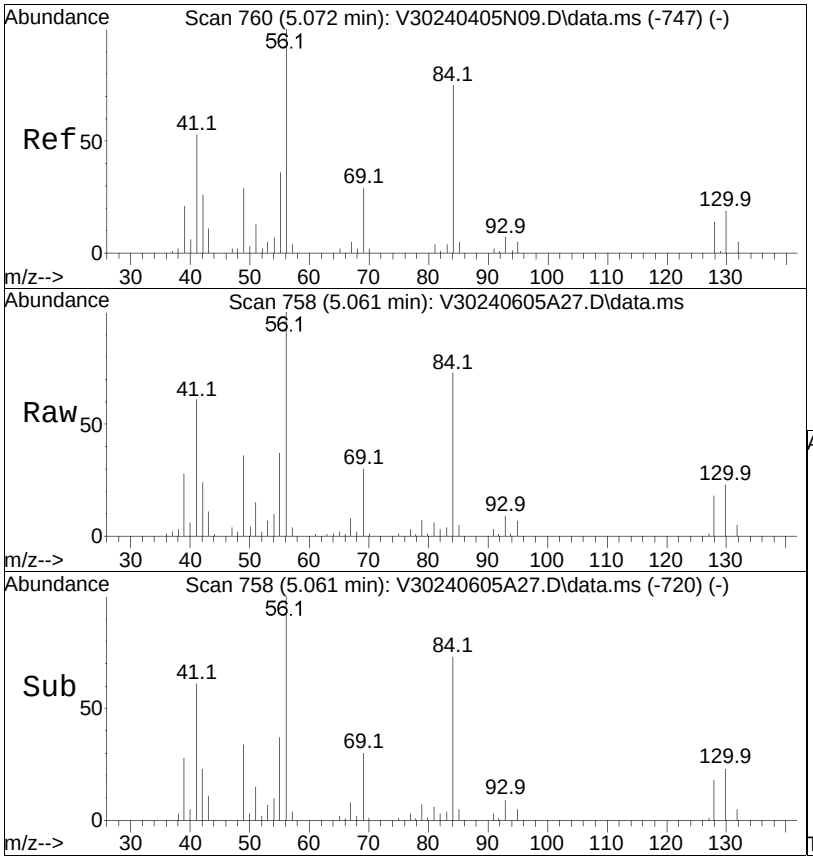


#33
Bromochloromethane
Concen: 9.85 ug/L
RT: 5.046 min Scan# 755
Delta R.T. -0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion:128 Resp: 39903

Ion	Ratio	Lower	Upper
128	100		
49	212.4	214.8	322.2#
130	127.0	105.4	158.2

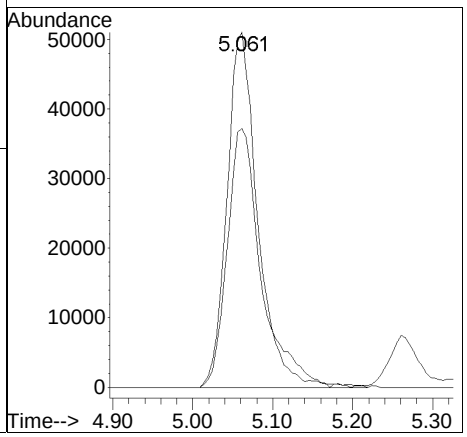


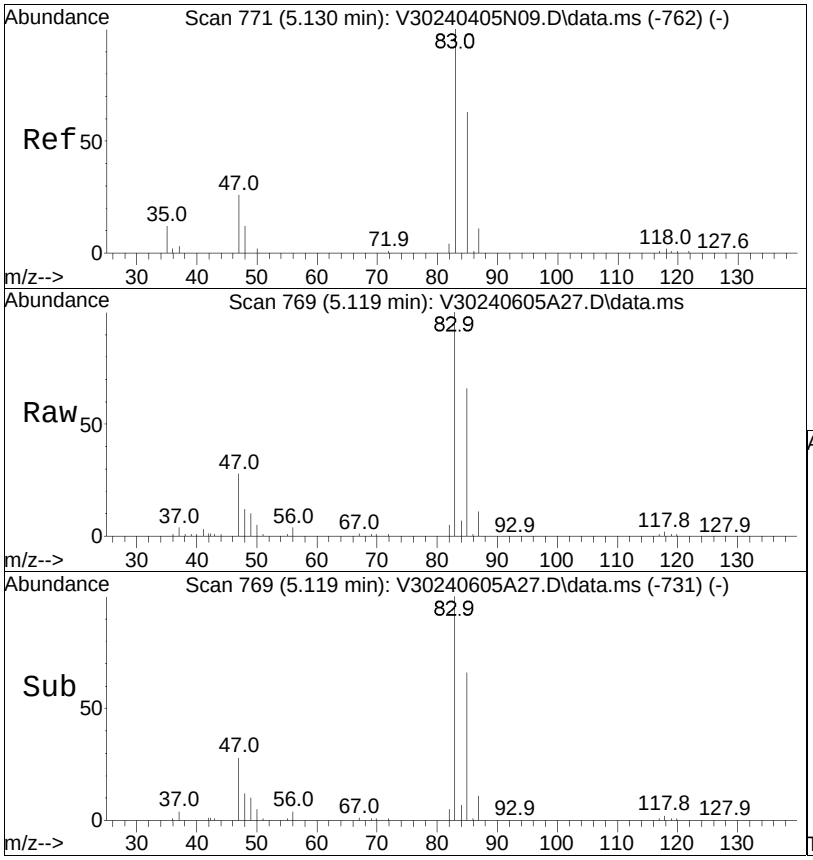


#34
Cyclohexane
Concen: 10.97 ug/L
RT: 5.061 min Scan# 758
Delta R.T. 0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 56 Resp: 136909

Ion	Ratio	Lower	Upper
56	100		
84	80.3	49.9	103.5

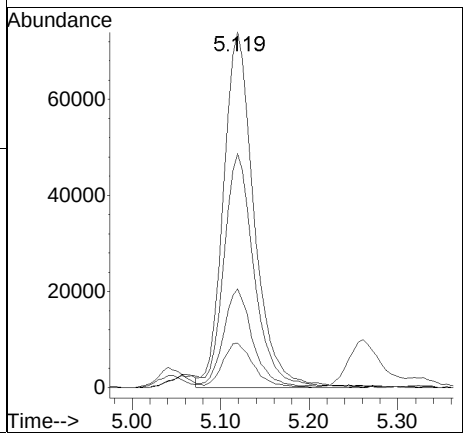


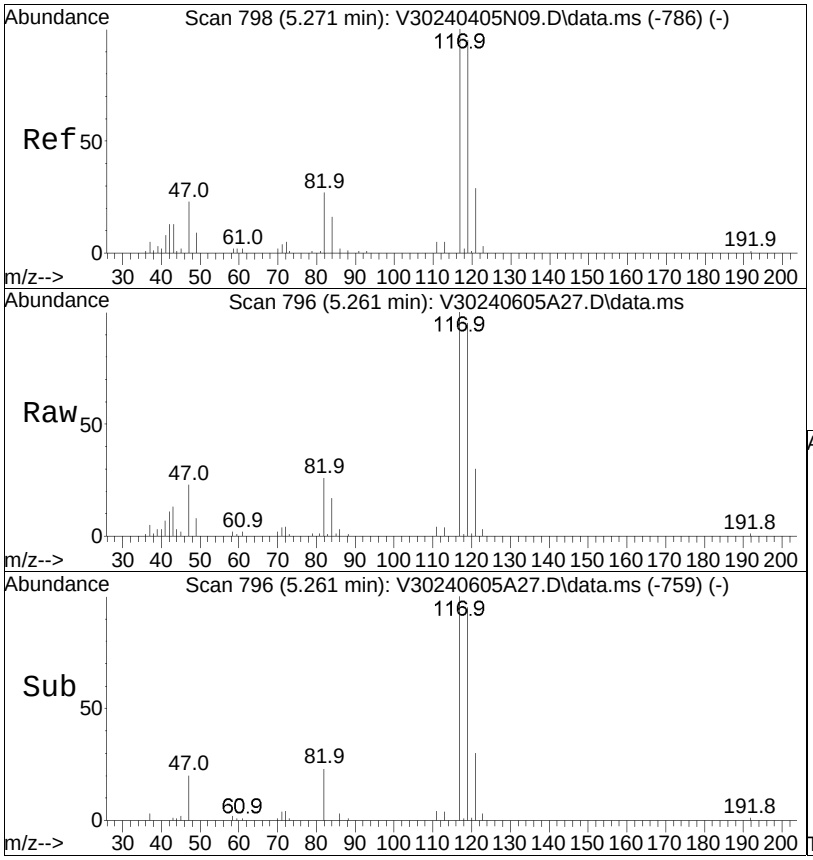


#35
Chloroform
Concen: 12.84 ug/L
RT: 5.119 min Scan# 769
Delta R.T. 0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 83 Resp: 178787

Ion	Ratio	Lower	Upper
83	100		
85	64.0	41.4	86.0
47	25.1	20.5	42.5
48	12.5	9.9	20.5

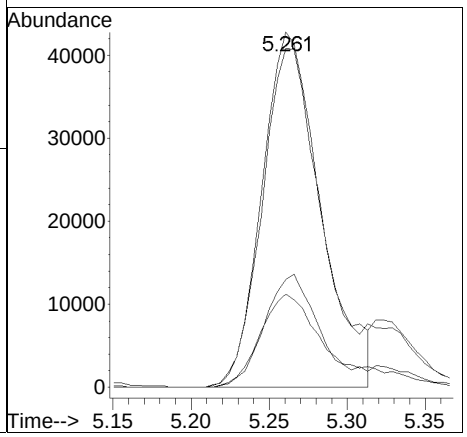


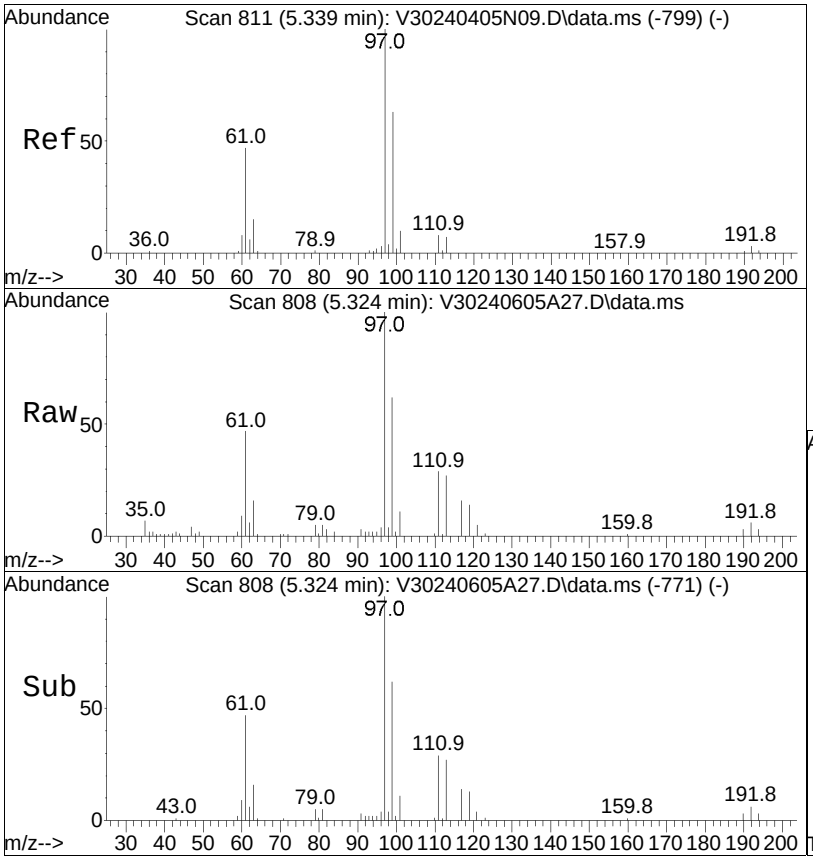


#37
Carbon tetrachloride
Concen: 11.98 ug/L
RT: 5.261 min Scan# 796
Delta R.T. -0.005 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion:117 Resp: 112455

Ion	Ratio	Lower	Upper
117	100		
119	94.5	62.0	128.8
121	30.4	19.6	40.6
82	31.0	18.8	39.0

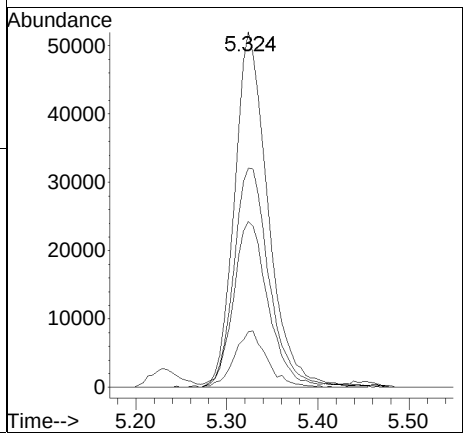


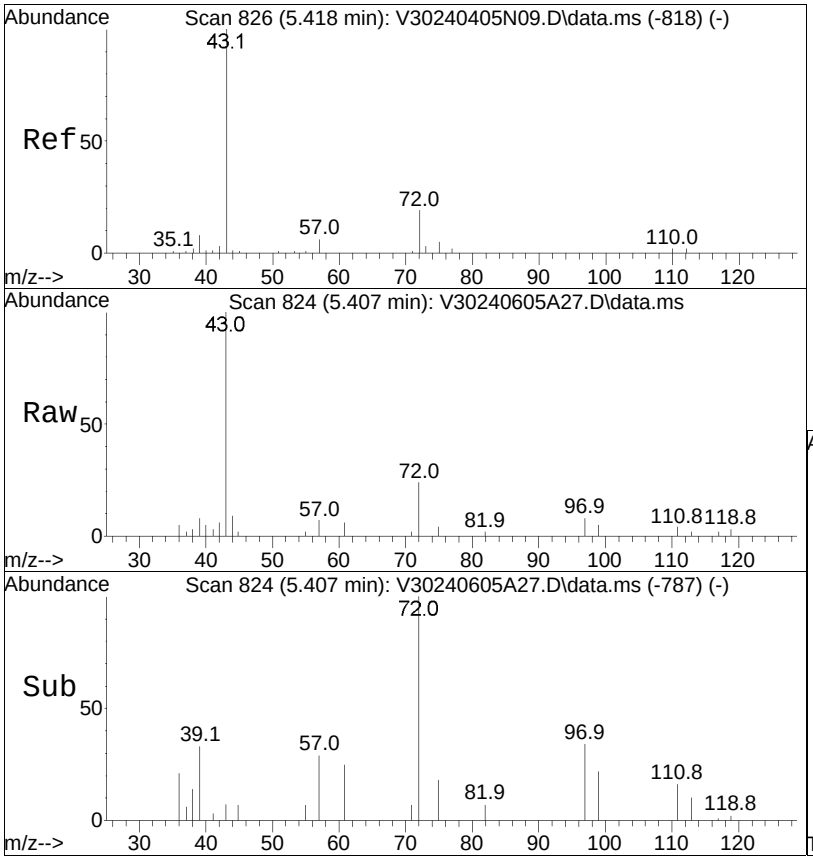


#40
1,1,1-Trichloroethane
Concen: 11.59 ug/L
RT: 5.324 min Scan# 808
Delta R.T. -0.005 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 97 Resp: 134026

Ion	Ratio	Lower	Upper
97	100		
99	65.0	40.6	84.4
61	48.9	35.0	72.8
63	15.6	11.1	23.0

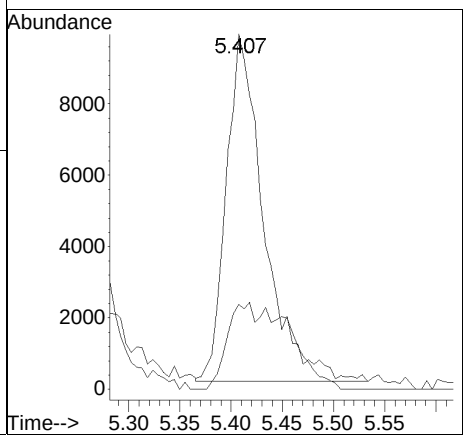


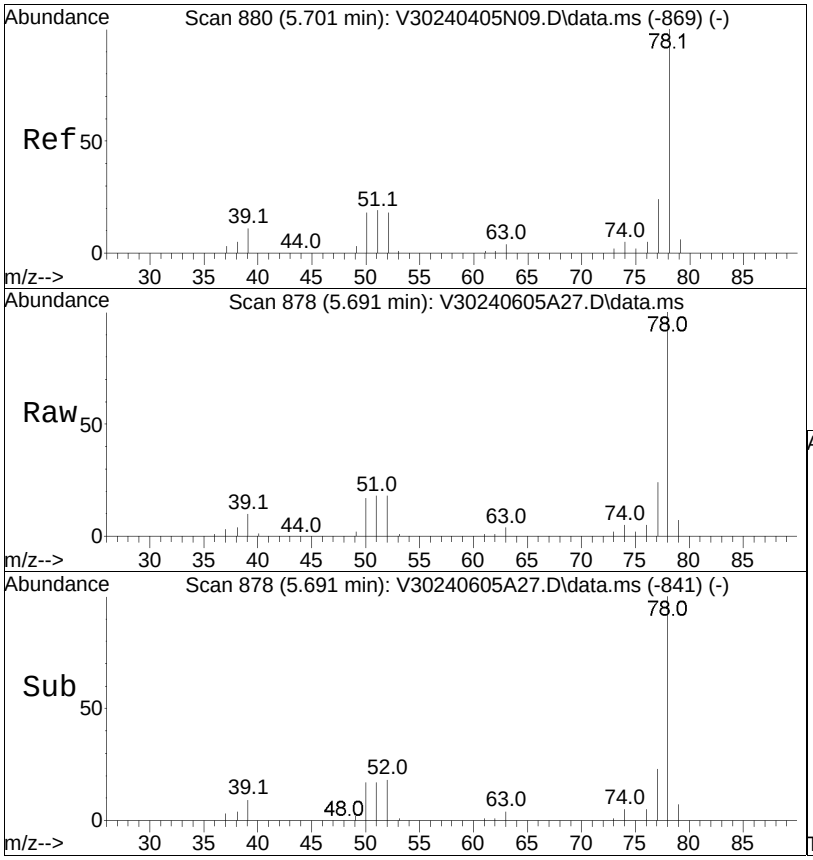


#42
2-Butanone
Concen: 11.47 ug/L
RT: 5.407 min Scan# 824
Delta R.T. -0.006 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 43 Resp: 25043

Ion	Ratio	Lower	Upper
43	100		
72	20.4	18.2	27.4

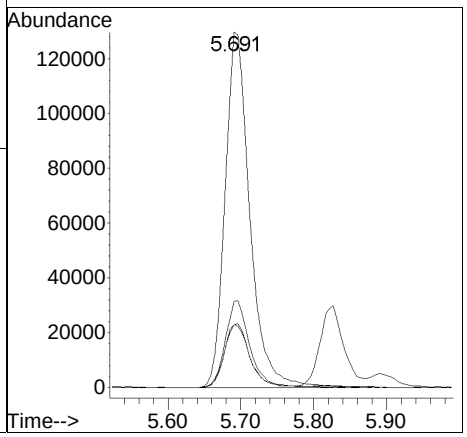


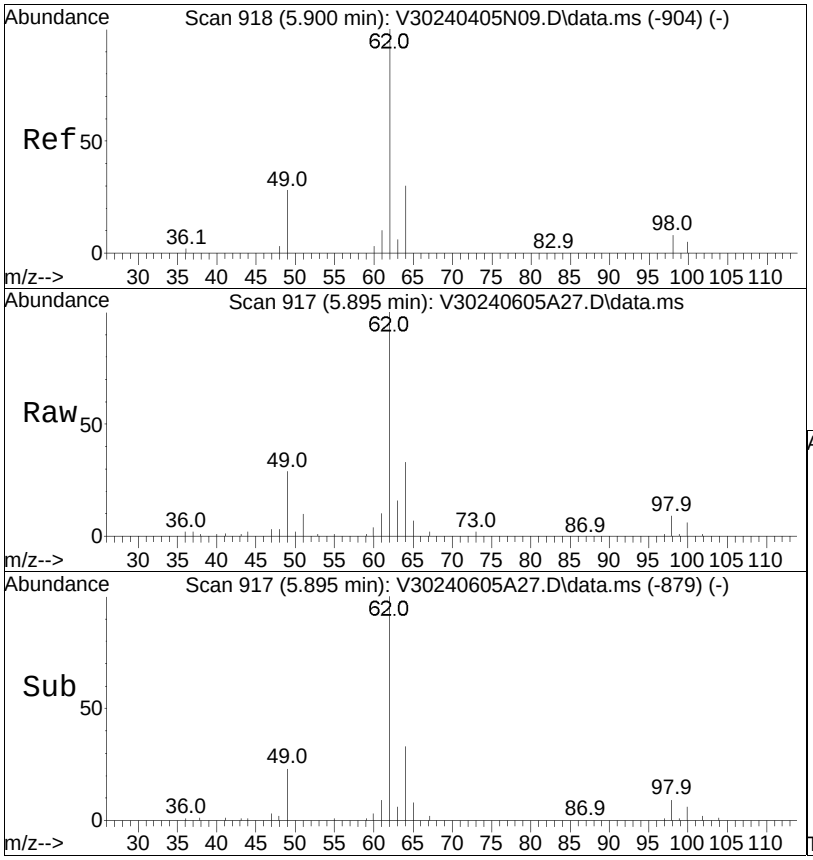


#45
Benzene
Concen: 10.98 ug/L
RT: 5.691 min Scan# 878
Delta R.T. -0.005 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 78 Resp: 307164

Ion	Ratio	Lower	Upper
78	100		
77	24.1	15.6	32.4
51	18.5	12.9	26.7
52	18.2	12.4	25.7

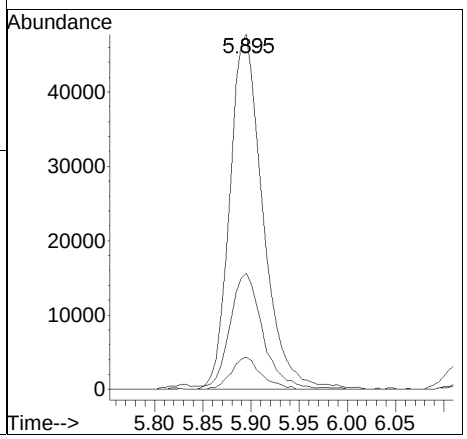


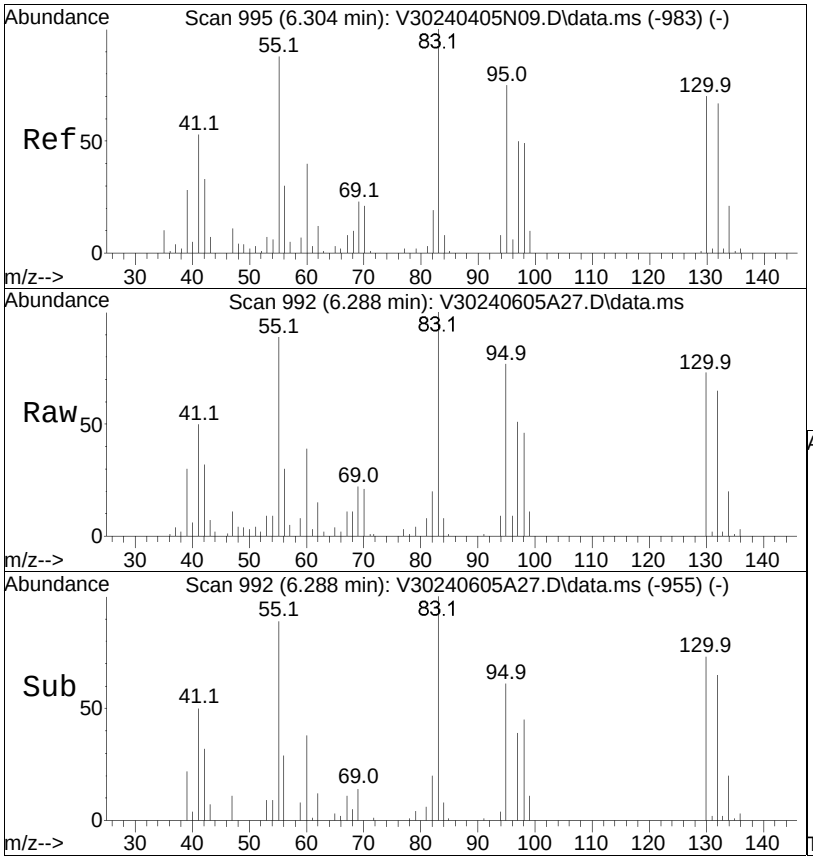


#48
1,2-Dichloroethane
Concen: 11.76 ug/L
RT: 5.895 min Scan# 917
Delta R.T. 0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 62 Resp: 114435

Ion	Ratio	Lower	Upper
62	100		
64	31.5	25.5	38.3
98	8.3	5.5	8.3#

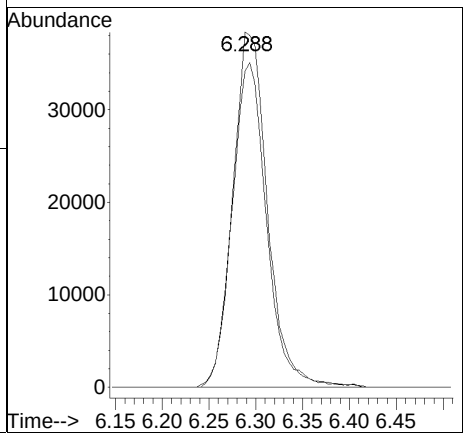


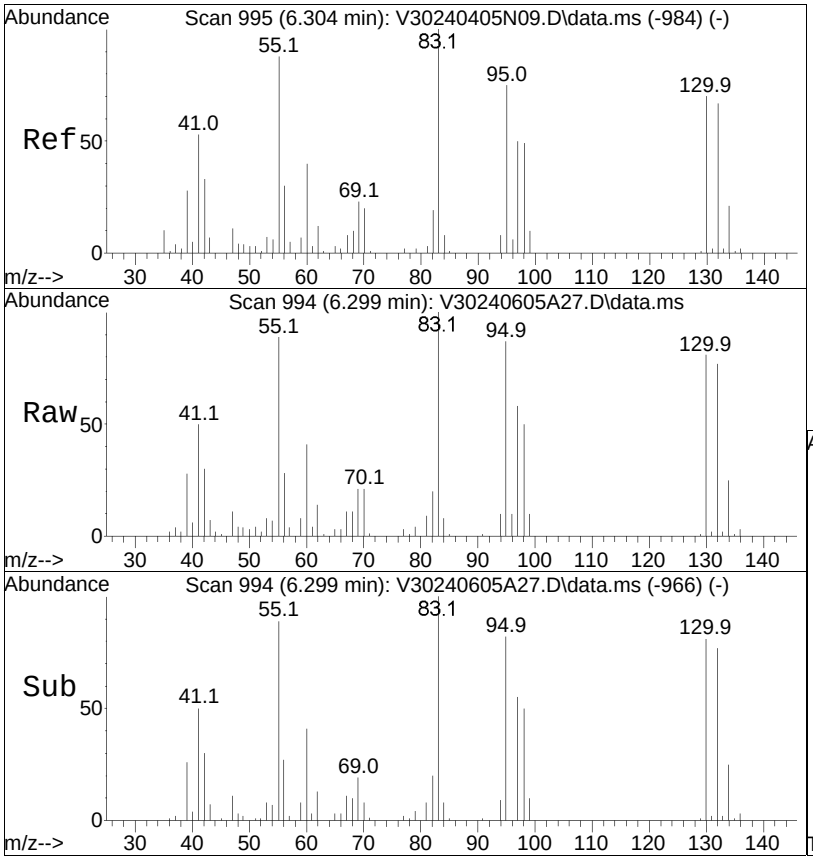


#51
Methyl cyclohexane
Concen: 8.65 ug/L
RT: 6.288 min Scan# 992
Delta R.T. -0.005 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 83 Resp: 99246

Ion	Ratio	Lower	Upper
83	100		
55	90.9	74.6	112.0

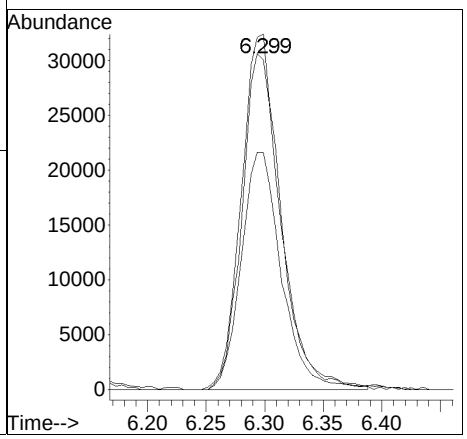


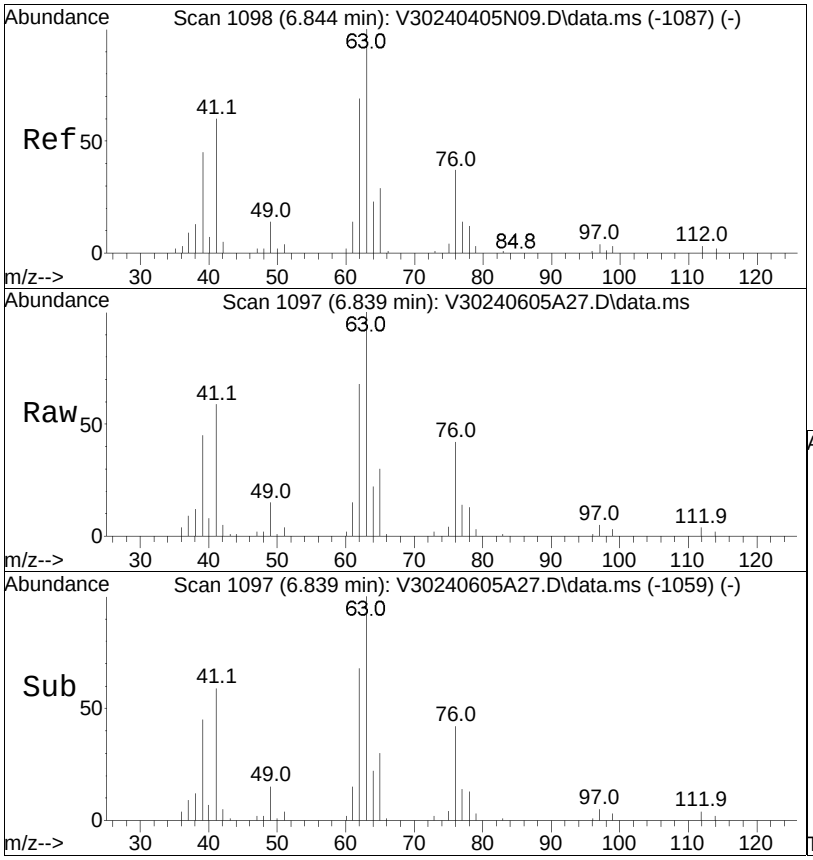


#52
Trichloroethene
Concen: 9.87 ug/L
RT: 6.299 min Scan# 994
Delta R.T. 0.006 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 95 Resp: 76125

Ion	Ratio	Lower	Upper
95	100		
97	67.7	53.8	80.6
130	93.6	71.4	107.0

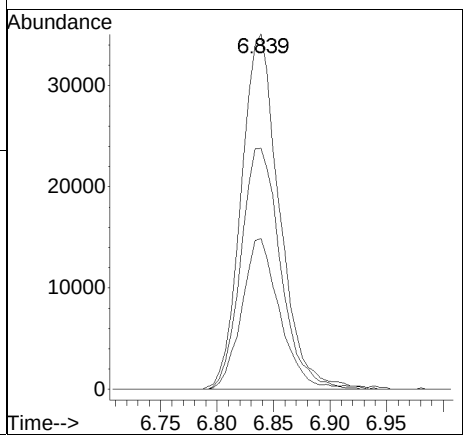


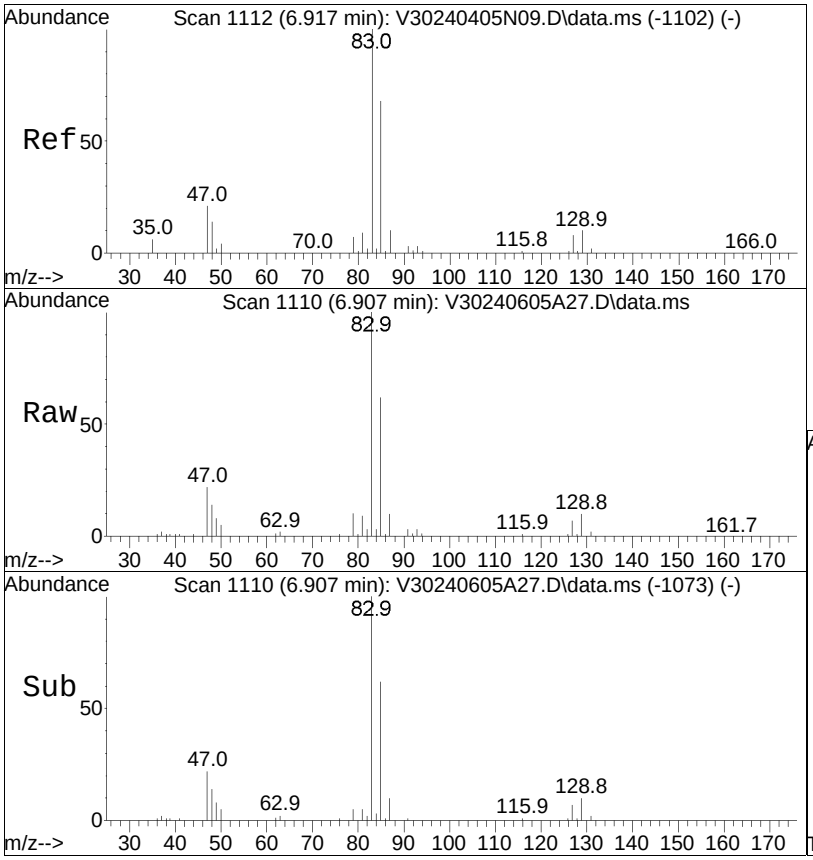


#55
1,2-Dichloropropane
Concen: 11.17 ug/L
RT: 6.839 min Scan# 1097
Delta R.T. -0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 63 Resp: 82670

Ion	Ratio	Lower	Upper
63	100		
62	70.6	58.1	87.1
76	42.1	30.4	45.6

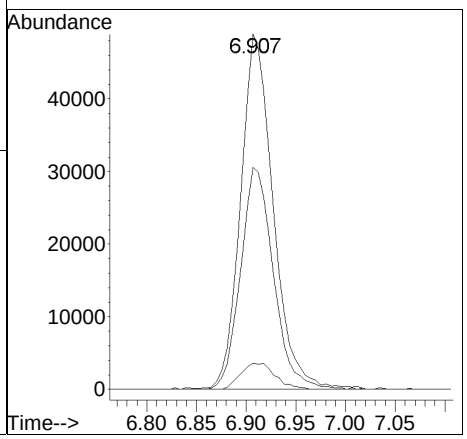


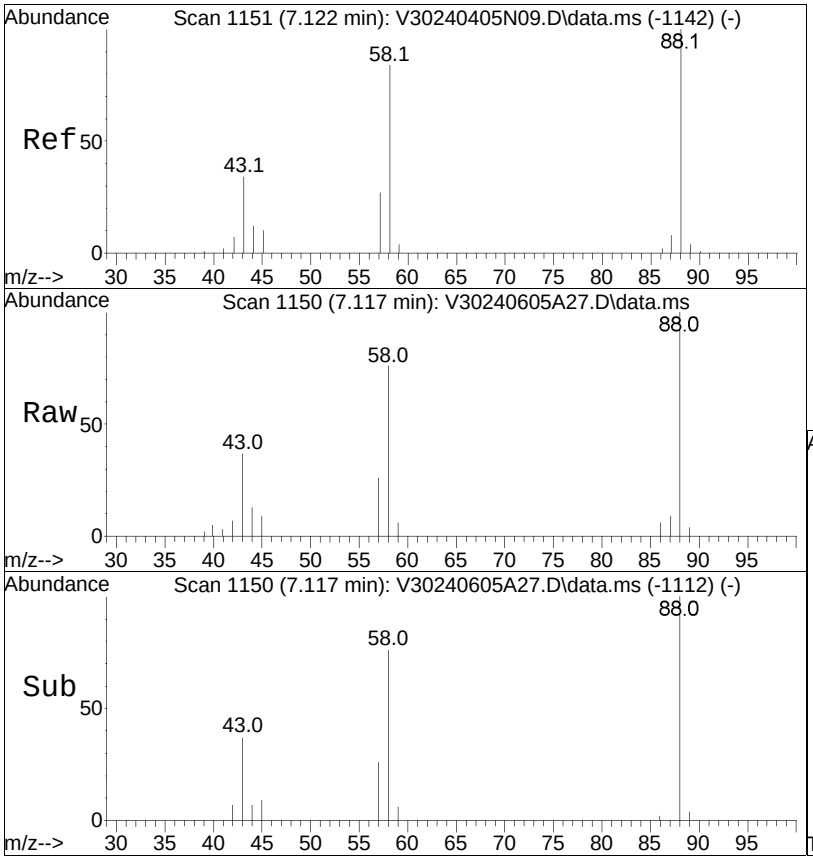


#58
Bromodichloromethane
Concen: 10.98 ug/L
RT: 6.907 min Scan# 1110
Delta R.T. -0.005 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 83 Resp: 112105

Ion	Ratio	Lower	Upper
83	100		
85	62.8	50.2	75.2
127	7.8	5.2	7.8#

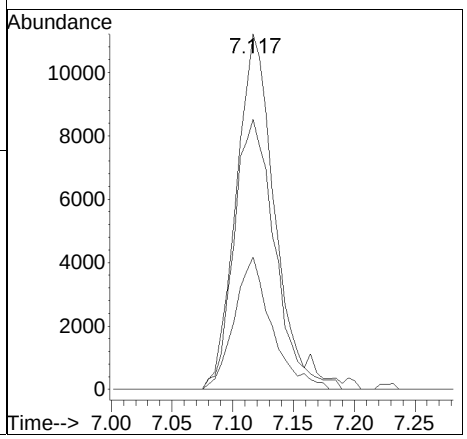


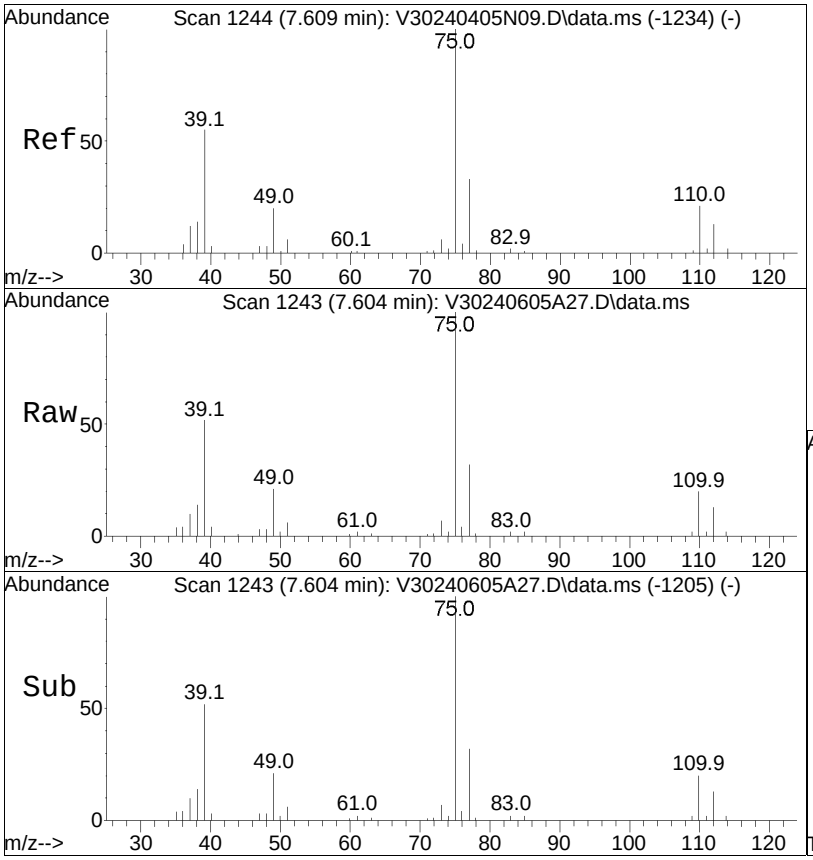


#61
1,4-Dioxane
Concen: 401.79 ug/L
RT: 7.117 min Scan# 1150
Delta R.T. -0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 88 Resp: 25107

Ion	Ratio	Lower	Upper
88	100		
58	79.6	59.9	89.9
43	35.7	30.8	46.2

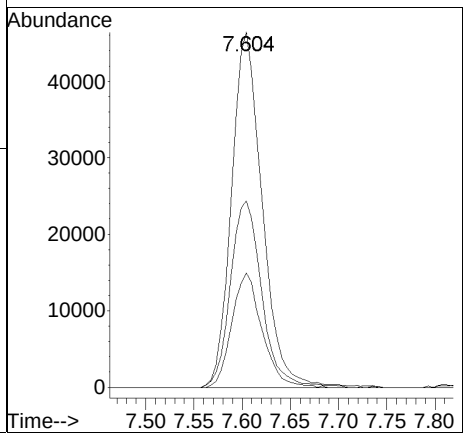


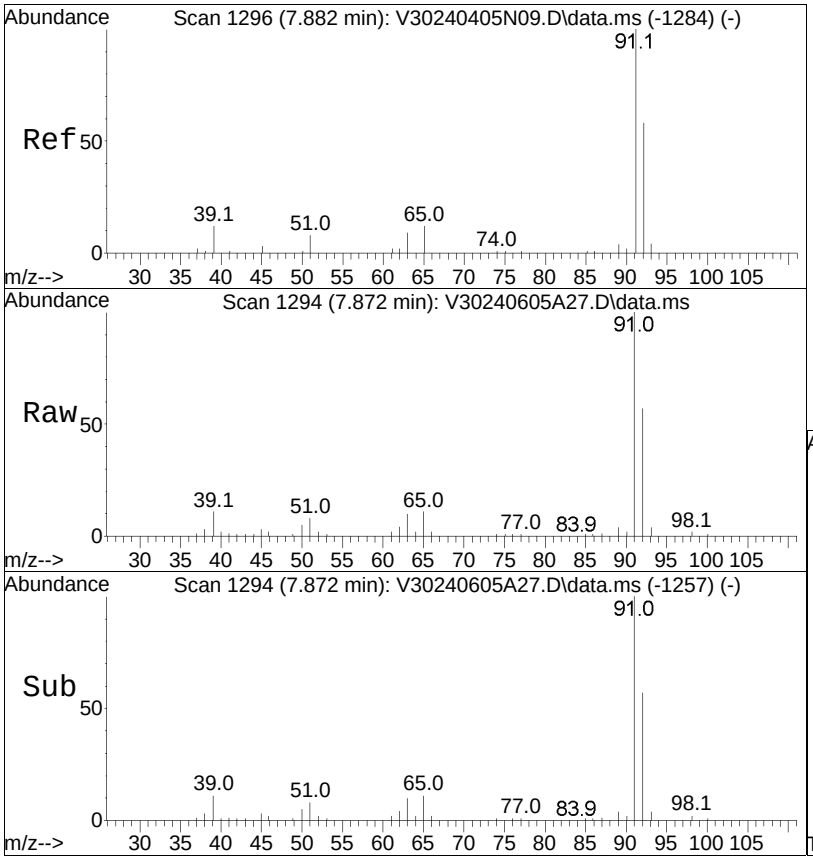


#62
cis-1,3-Dichloropropene
Concen: 8.97 ug/L
RT: 7.604 min Scan# 1243
Delta R.T. 0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 75 Resp: 102823

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.4	38.2
39	53.6	54.6	82.0#

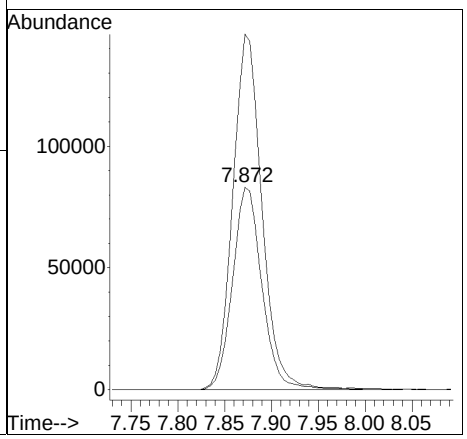


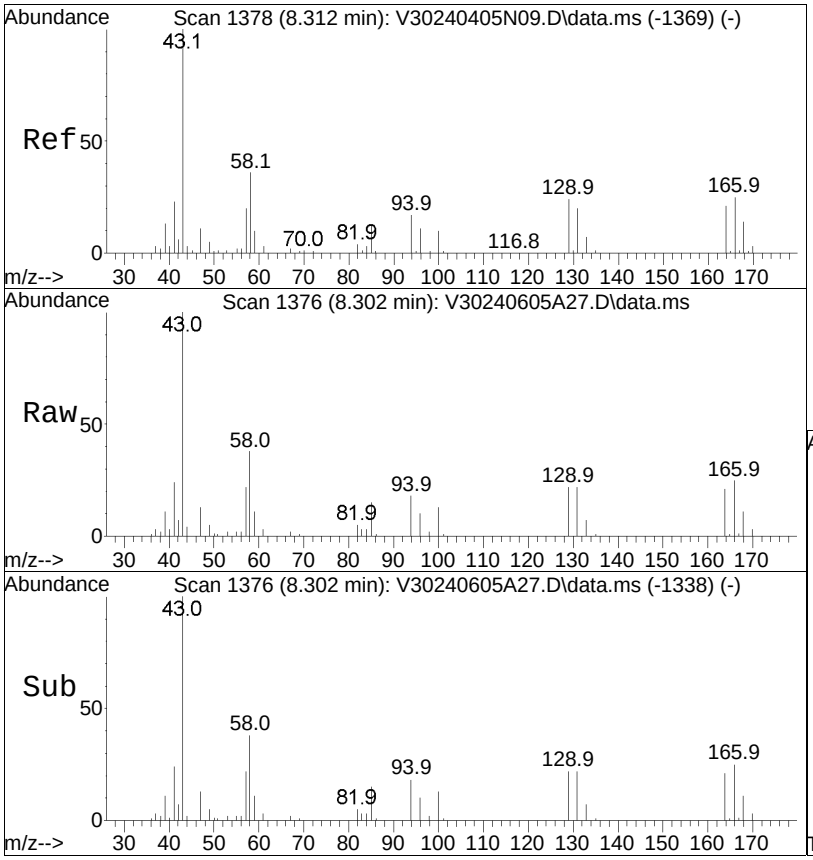


#65
Toluene
Concen: 10.02 ug/L
RT: 7.872 min Scan# 1294
Delta R.T. -0.005 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 92 Resp: 180514

Ion	Ratio	Lower	Upper
92	100		
91	175.0	137.5	206.3

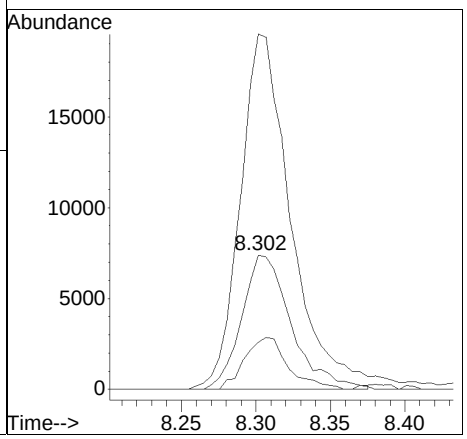


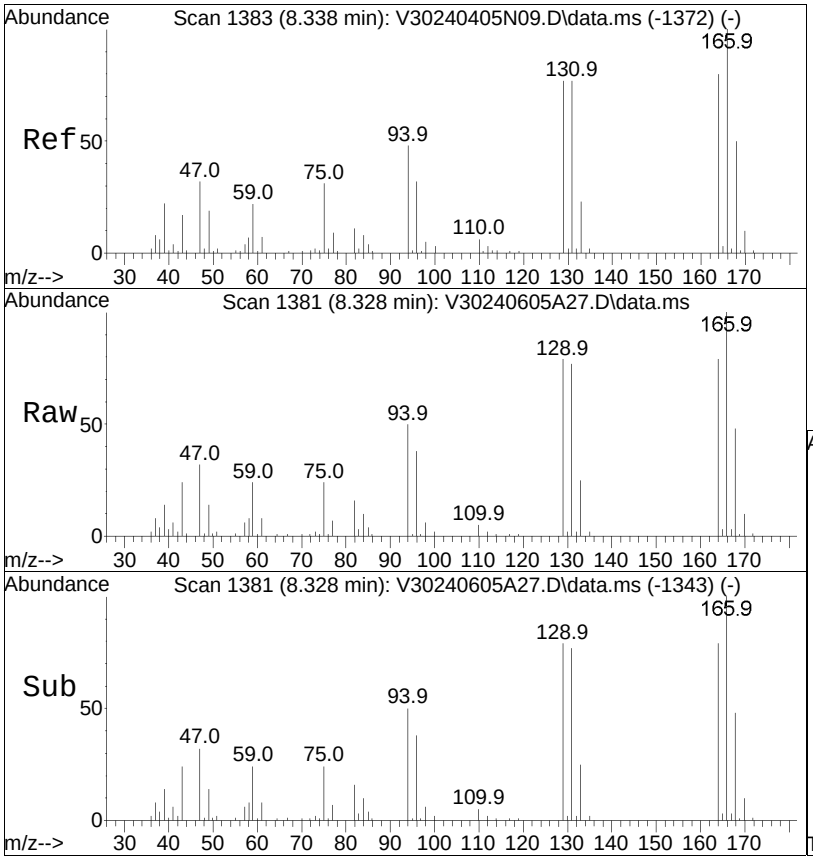


#66
4-Methyl-2-pentanone
Concen: 9.60 ug/L
RT: 8.302 min Scan# 1376
Delta R.T. -0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 58 Resp: 17100

Ion	Ratio	Lower	Upper
58	100		
100	34.1	22.6	34.0#
43	276.5	234.6	351.8

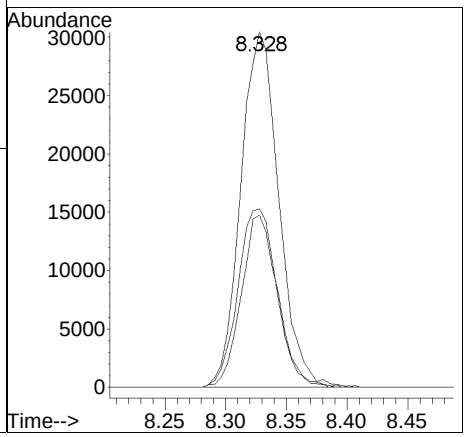


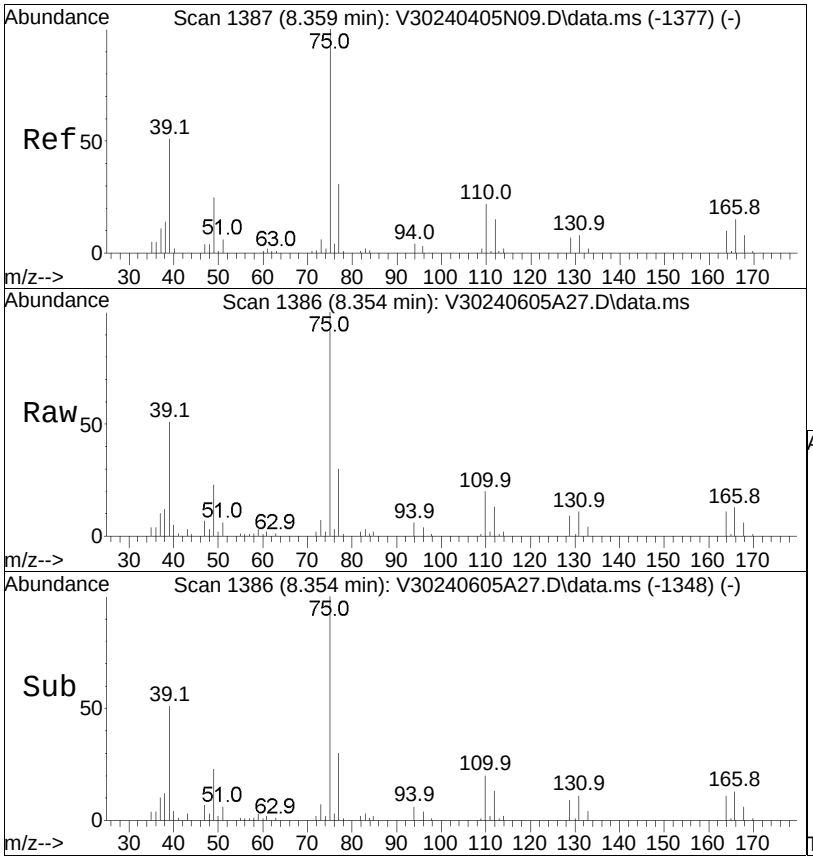


#67
Tetrachloroethene
Concen: 9.00 ug/L
RT: 8.328 min Scan# 1381
Delta R.T. -0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion:166 Resp: 66470

Ion	Ratio	Lower	Upper
166	100		
168	46.3	38.6	58.0
94	51.6	42.6	63.8

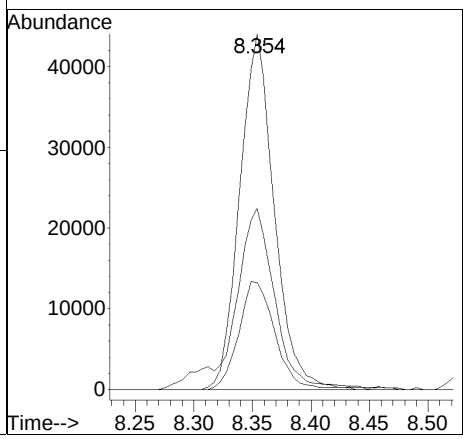


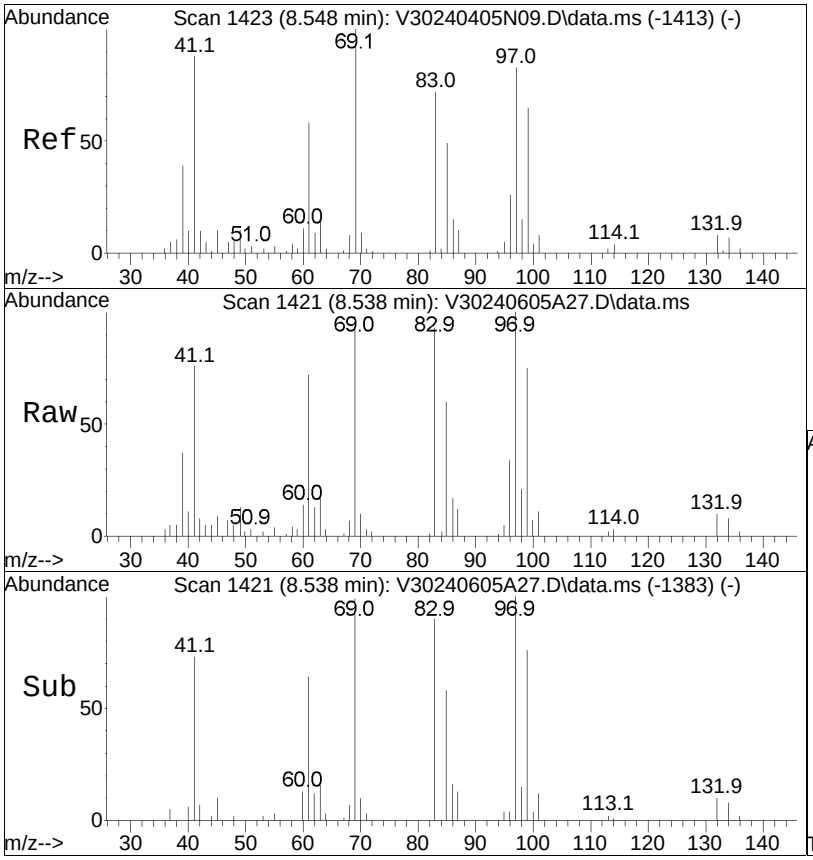


#69
trans-1,3-Dichloropropene
Concen: 9.26 ug/L
RT: 8.354 min Scan# 1386
Delta R.T. 0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 75 Resp: 90506

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.6	38.4
39	58.4	60.2	90.4#

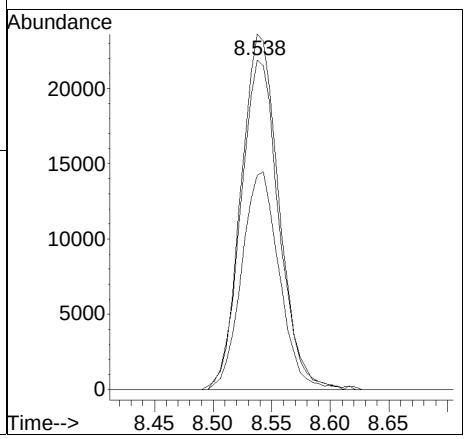


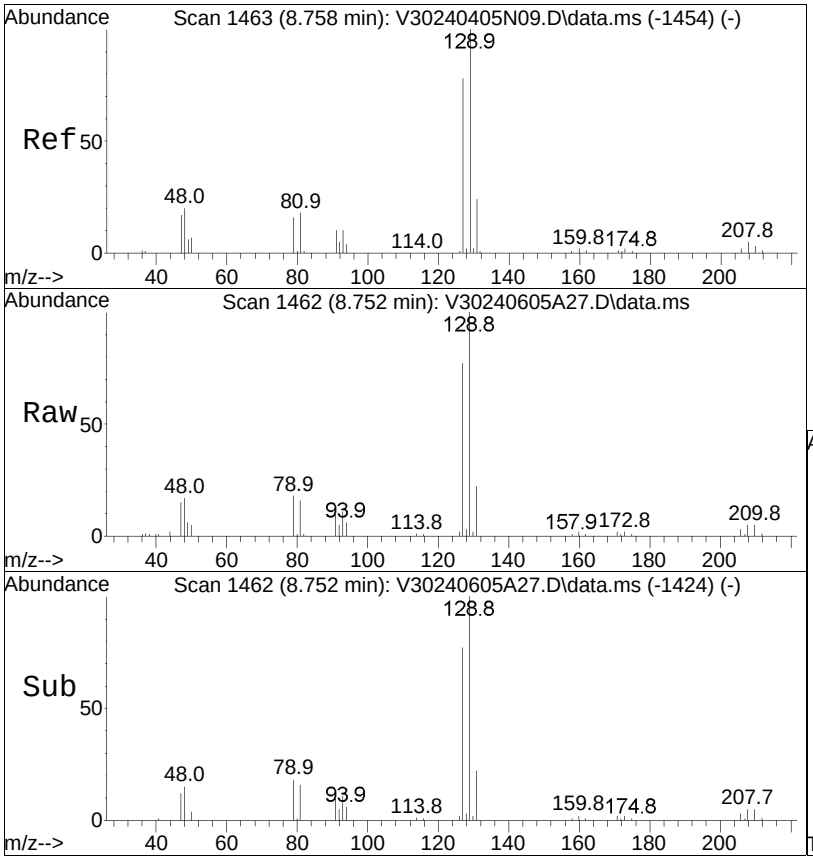


#72
1,1,2-Trichloroethane
Concen: 10.20 ug/L
RT: 8.538 min Scan# 1421
Delta R.T. -0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 83 Resp: 49604

Ion	Ratio	Lower	Upper
83	100		
97	107.2	87.7	131.5
85	65.0	53.1	79.7

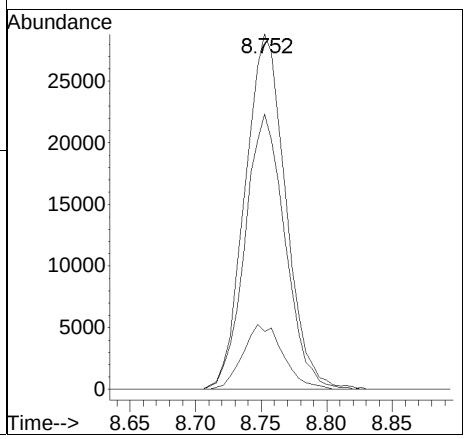


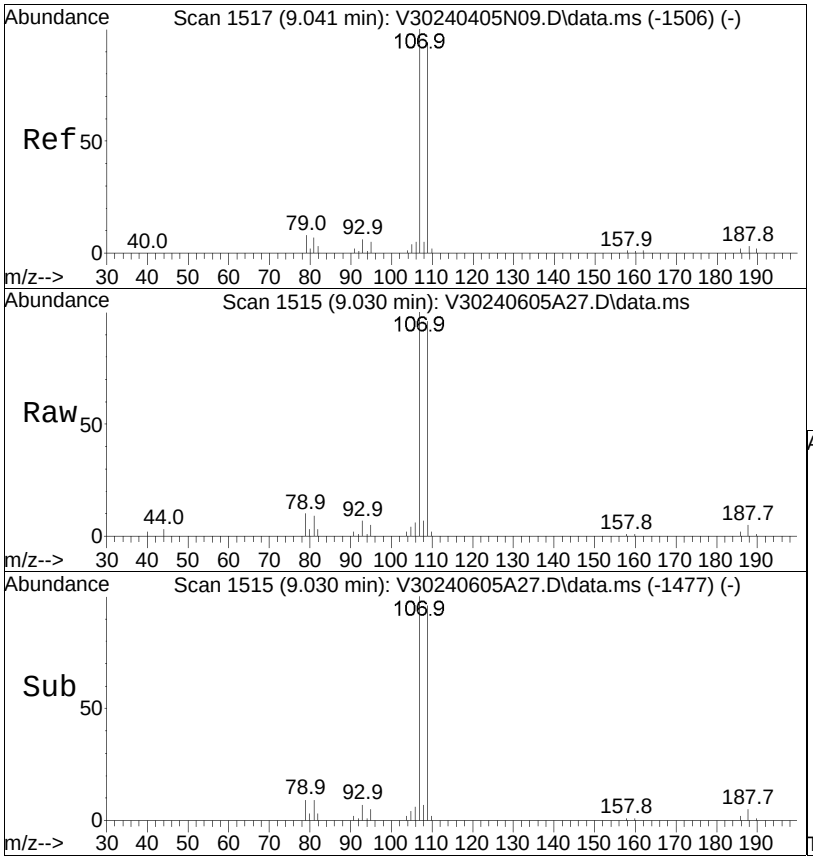


#73
Chlorodibromomethane
Concen: 9.43 ug/L
RT: 8.752 min Scan# 1462
Delta R.T. 0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion:129 Resp: 62255

Ion	Ratio	Lower	Upper
129	100		
81	18.2	14.6	22.0
127	76.6	62.6	93.8

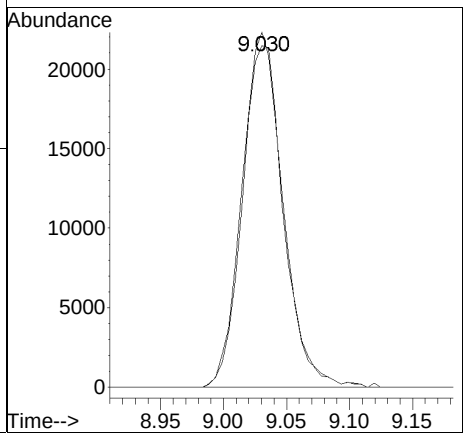


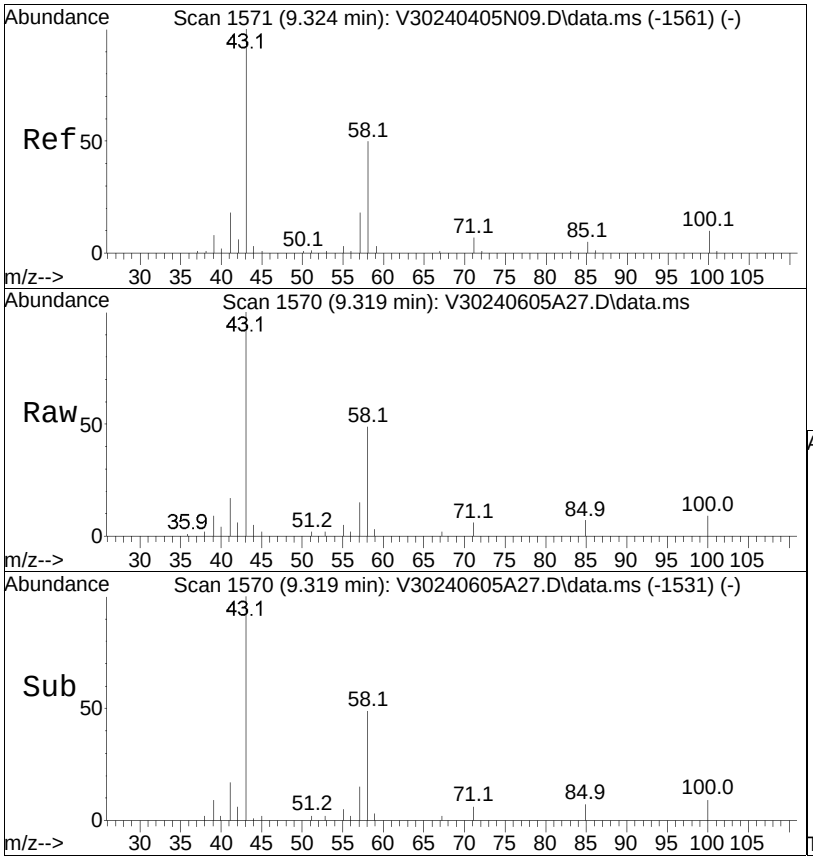


#75
1,2-Dibromoethane
Concen: 8.91 ug/L
RT: 9.030 min Scan# 1515
Delta R.T. 0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion:107 Resp: 50450

Ion	Ratio	Lower	Upper
107	100		
109	97.0	75.0	112.4

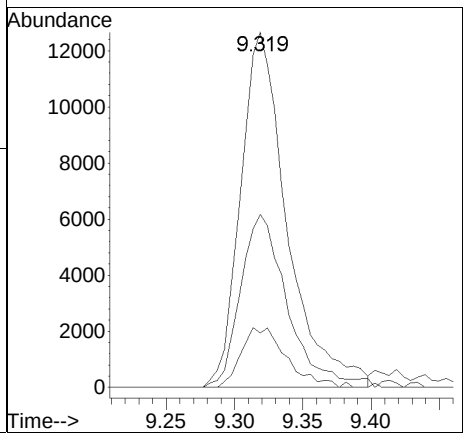


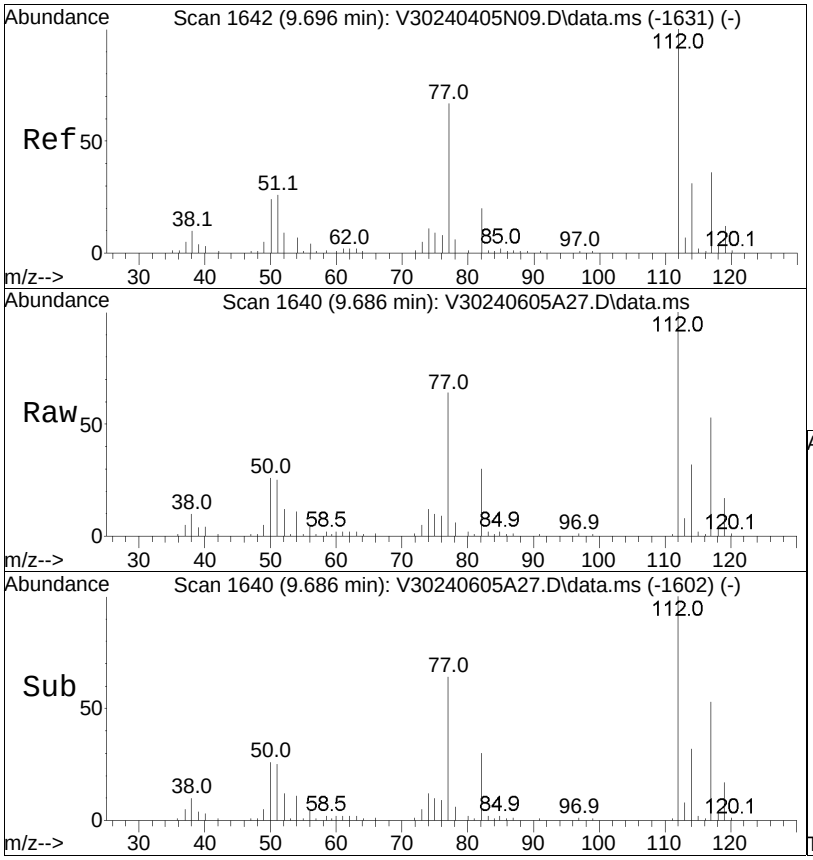


#77
2-Hexanone
Concen: 9.85 ug/L
RT: 9.319 min Scan# 1570
Delta R.T. 0.005 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 43 Resp: 30061

Ion	Ratio	Lower	Upper
43	100		
58	49.2	38.6	58.0
57	16.5	14.1	21.1

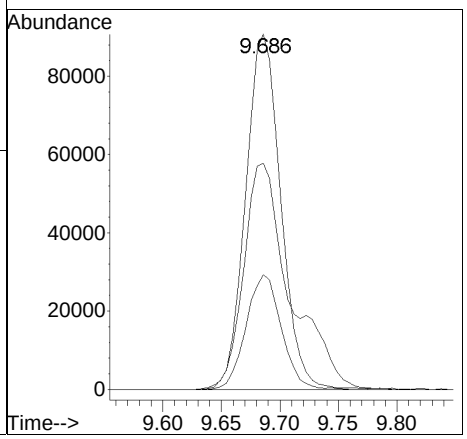


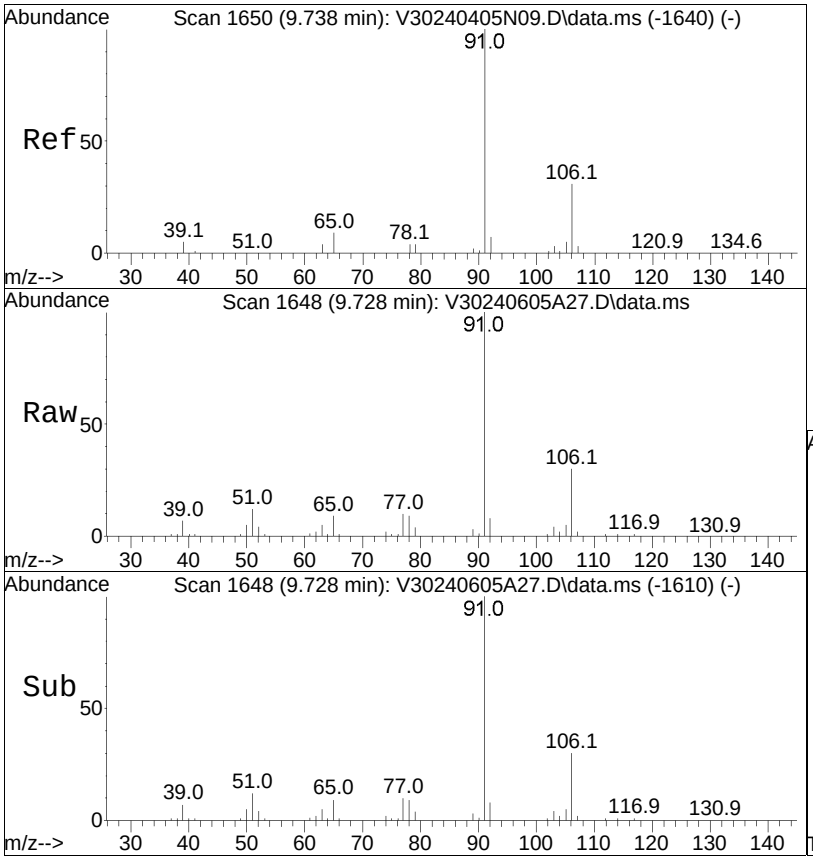


#78
Chlorobenzene
Concen: 9.69 ug/L
RT: 9.686 min Scan# 1640
Delta R.T. -0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion:112 Resp: 189590

Ion	Ratio	Lower	Upper
112	100		
77	84.3	54.8	82.2#
114	32.4	25.4	38.0

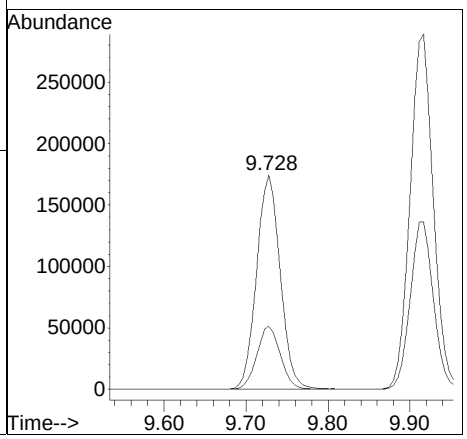


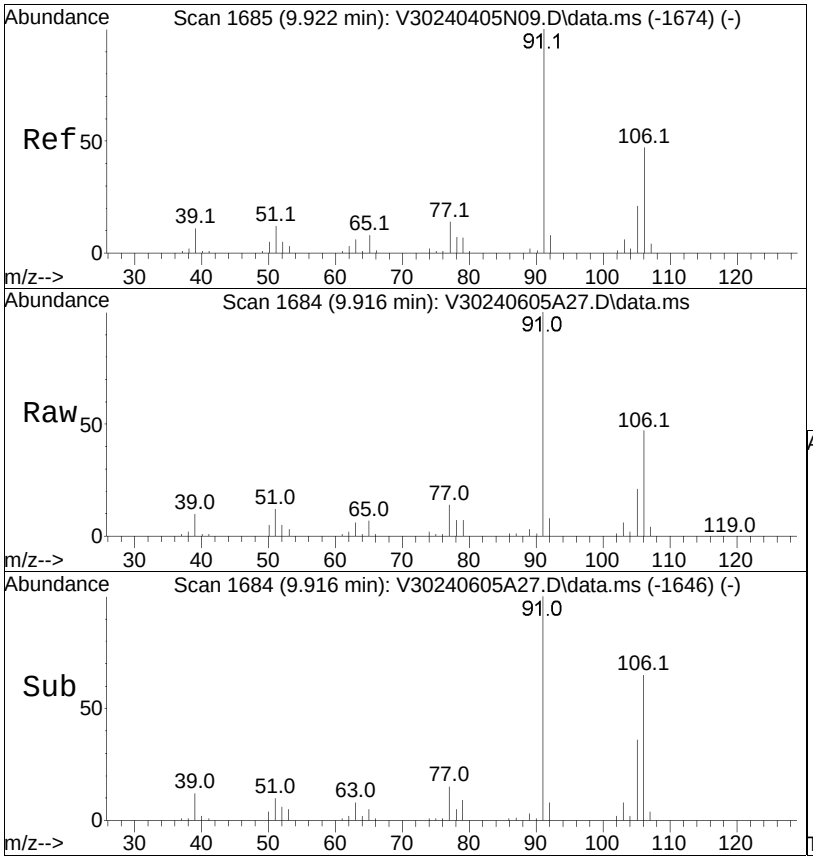


#79
Ethylbenzene
Concen: 10.45 ug/L
RT: 9.728 min Scan# 1648
Delta R.T. -0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 91 Resp: 351784

Ion	Ratio	Lower	Upper
91	100		
106	29.3	23.4	35.2

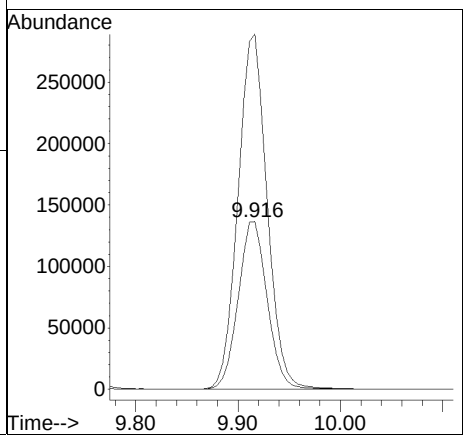


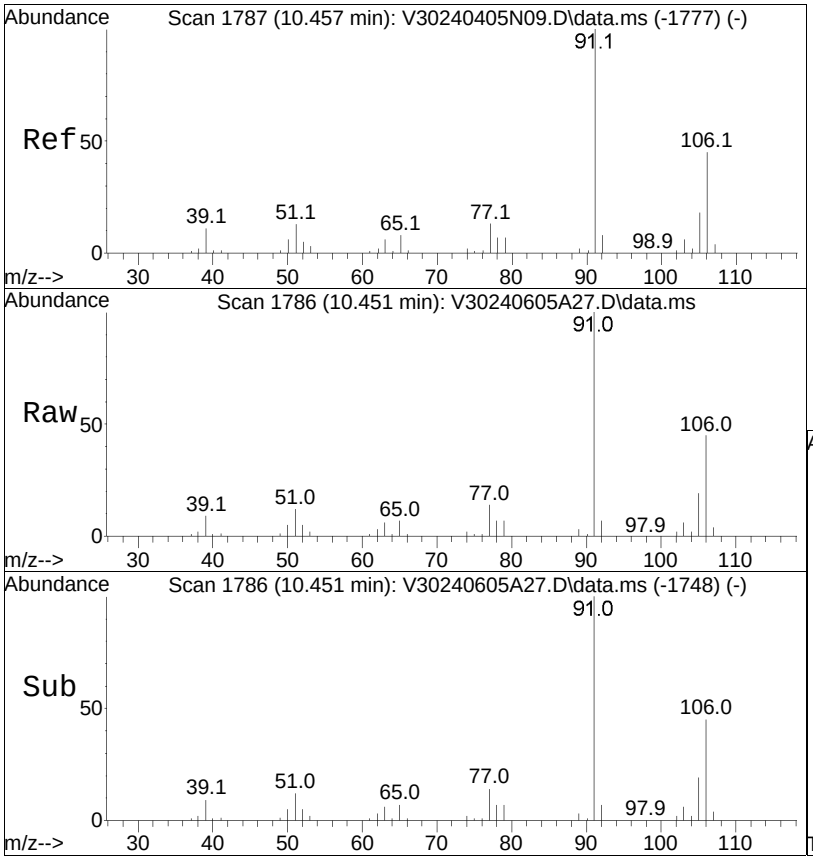


#81
p/m Xylene
Concen: 19.93 ug/L
RT: 9.916 min Scan# 1684
Delta R.T. 0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion:106 Resp: 269746

Ion	Ratio	Lower	Upper
106	100		
91	211.6	171.4	257.2

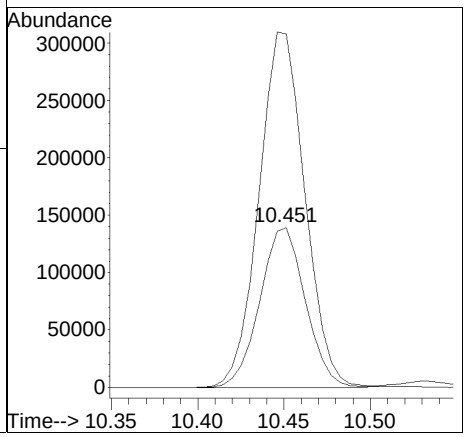


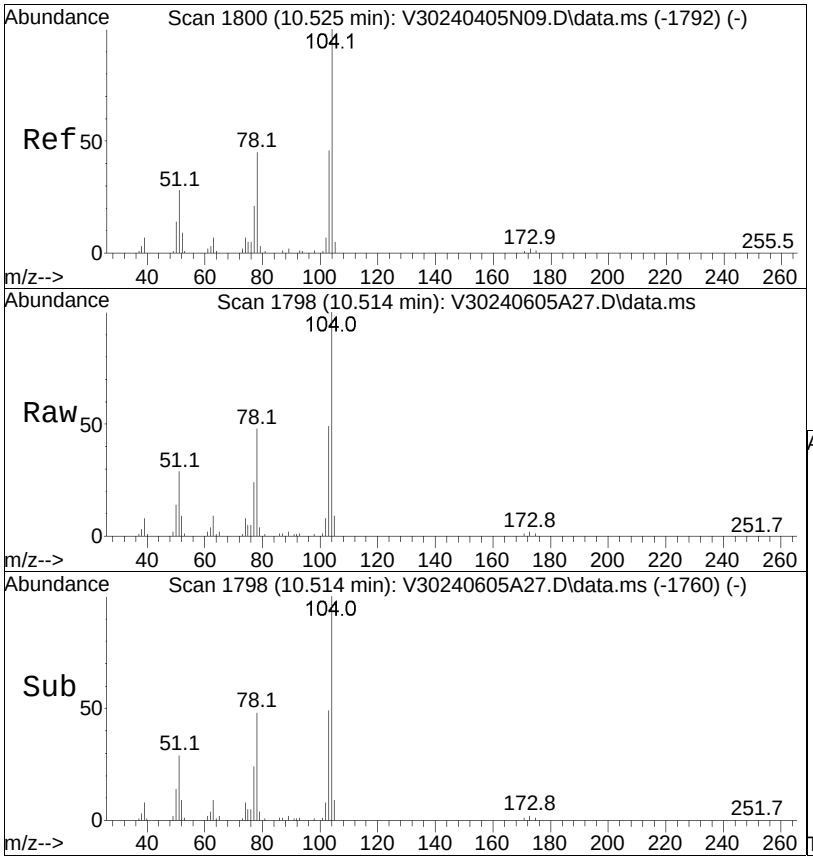


#82
o Xylene
Concen: 19.39 ug/L
RT: 10.451 min Scan# 1786
Delta R.T. 0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion:106 Resp: 255422

Ion	Ratio	Lower	Upper
106	100		
91	224.4	179.2	268.8

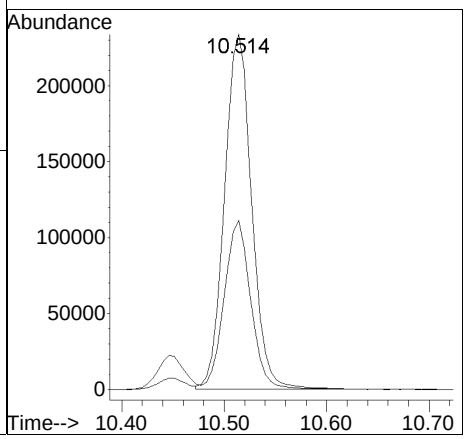


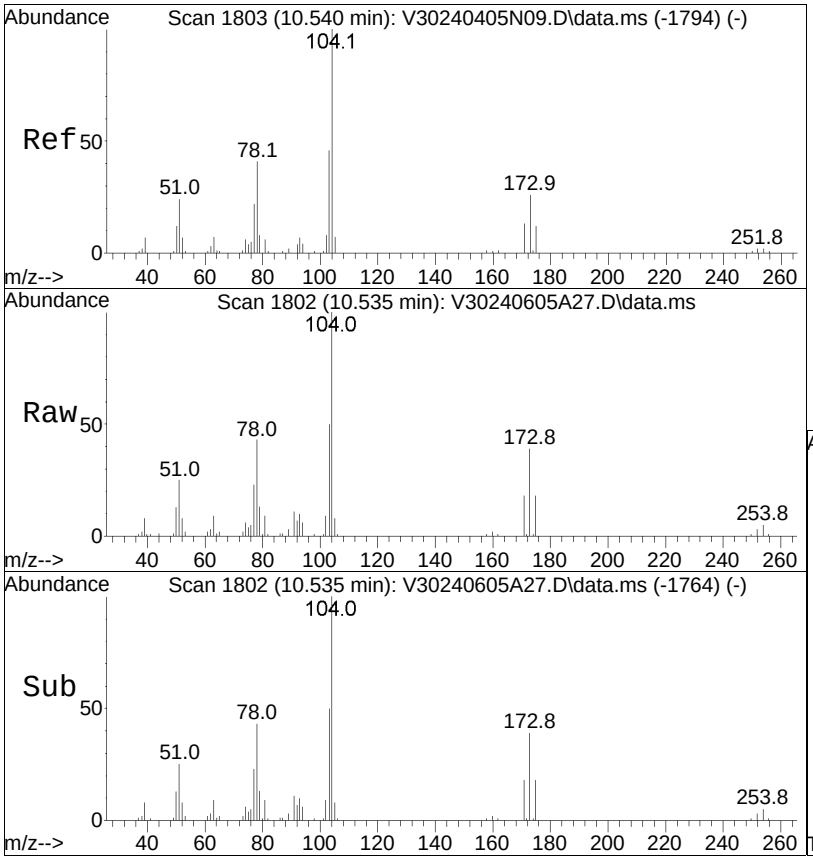


#83
Styrene
Concen: 19.91 ug/L
RT: 10.514 min Scan# 1798
Delta R.T. 0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion:104 Resp: 430964

Ion	Ratio	Lower	Upper
104	100		
78	46.8	38.1	57.1

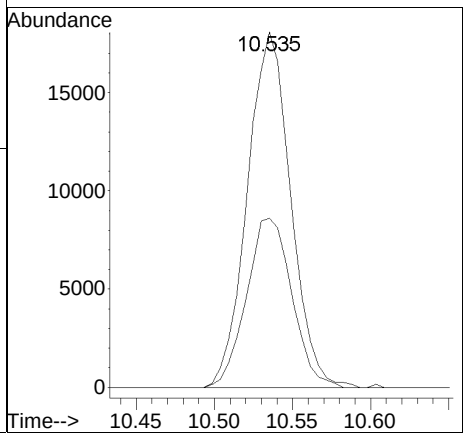


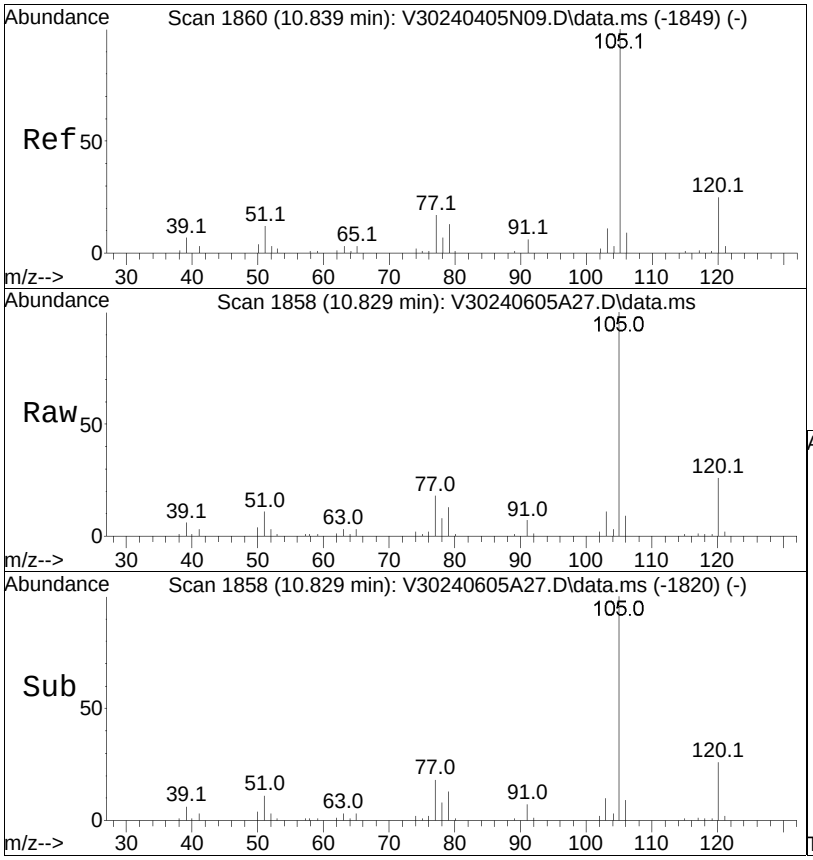


#85
Bromoform
Concen: 8.72 ug/L
RT: 10.535 min Scan# 1802
Delta R.T. 0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion:173 Resp: 34862

Ion	Ratio	Lower	Upper
173	100		
175	49.9	37.8	56.6

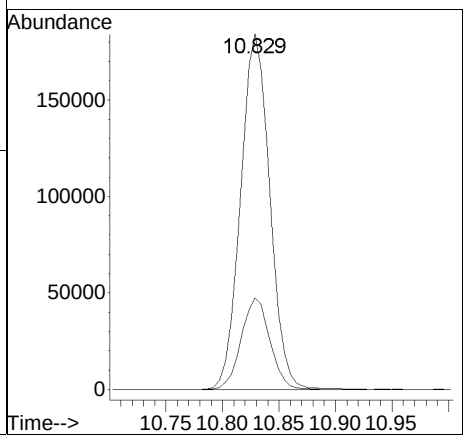


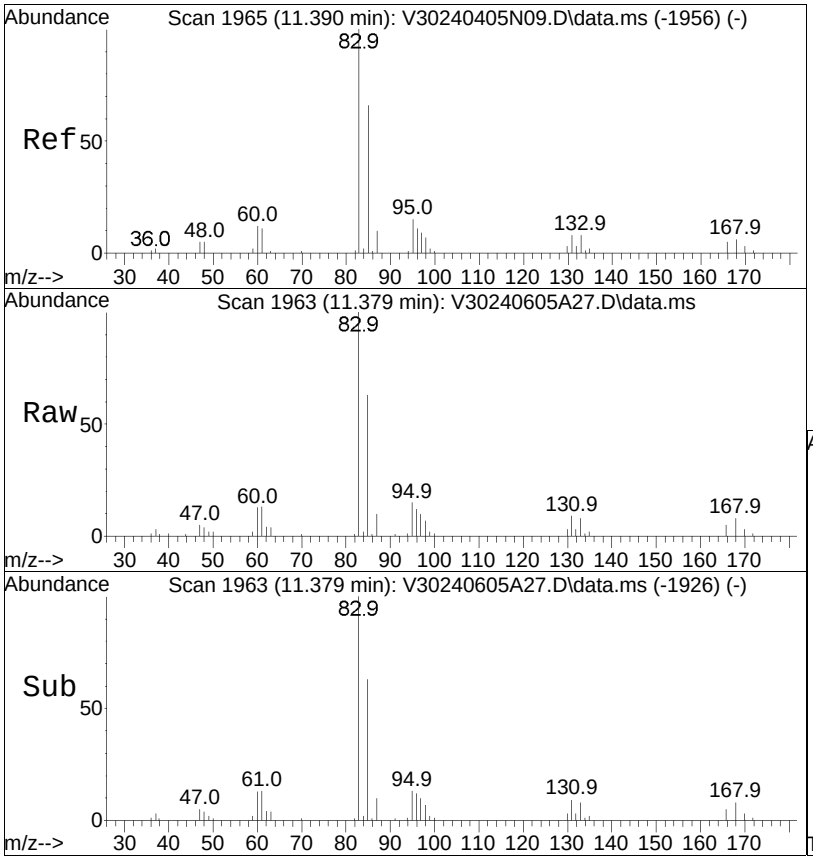


#87
Isopropylbenzene
Concen: 9.84 ug/L
RT: 10.829 min Scan# 1858
Delta R.T. -0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion:105 Resp: 330538

Ion	Ratio	Lower	Upper
105	100		
120	25.2	20.0	30.0

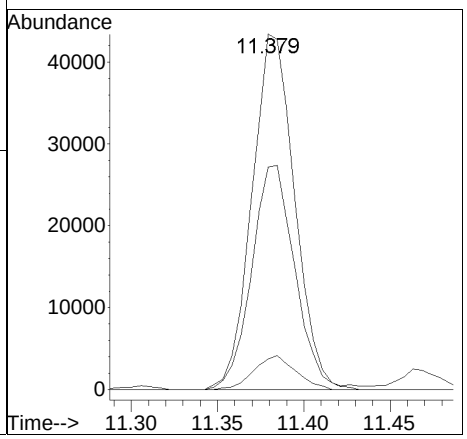


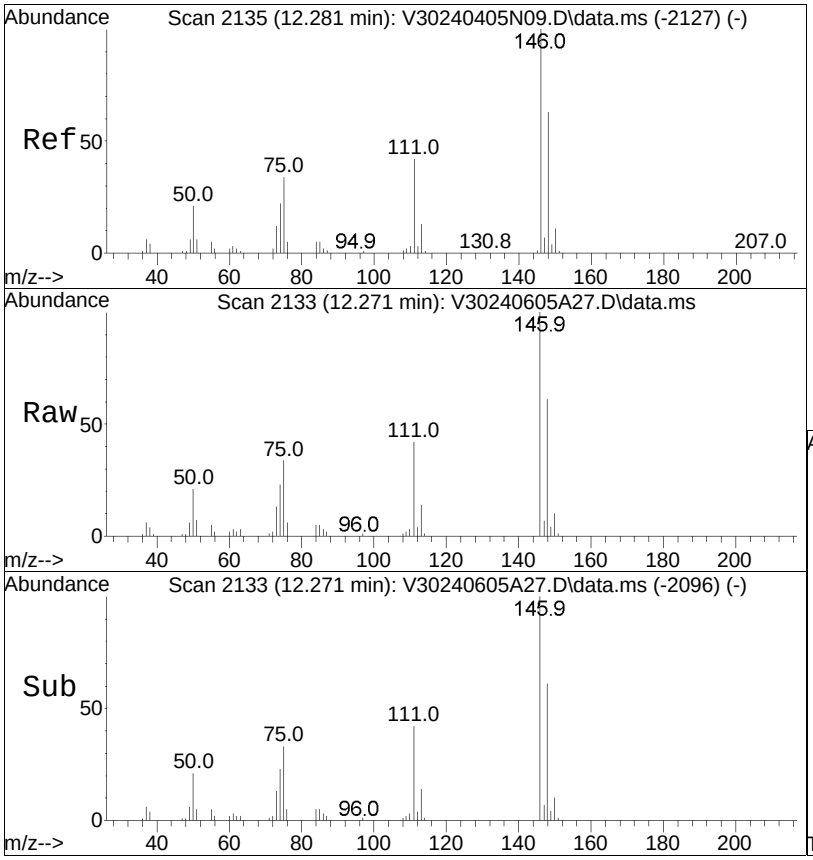


#92
1,1,2,2-Tetrachloroethane
Concen: 10.80 ug/L
RT: 11.379 min Scan# 1963
Delta R.T. -0.006 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion: 83 Resp: 74492

Ion	Ratio	Lower	Upper
83	100		
131	9.3	6.6	10.0
85	64.3	51.8	77.6

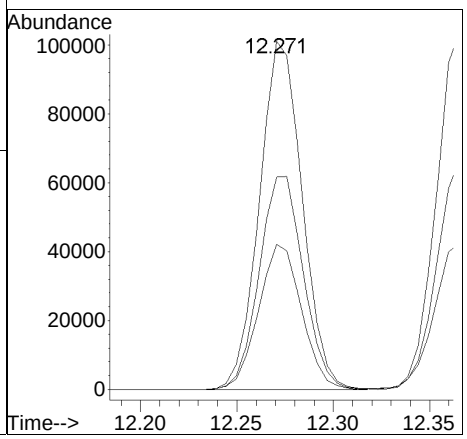


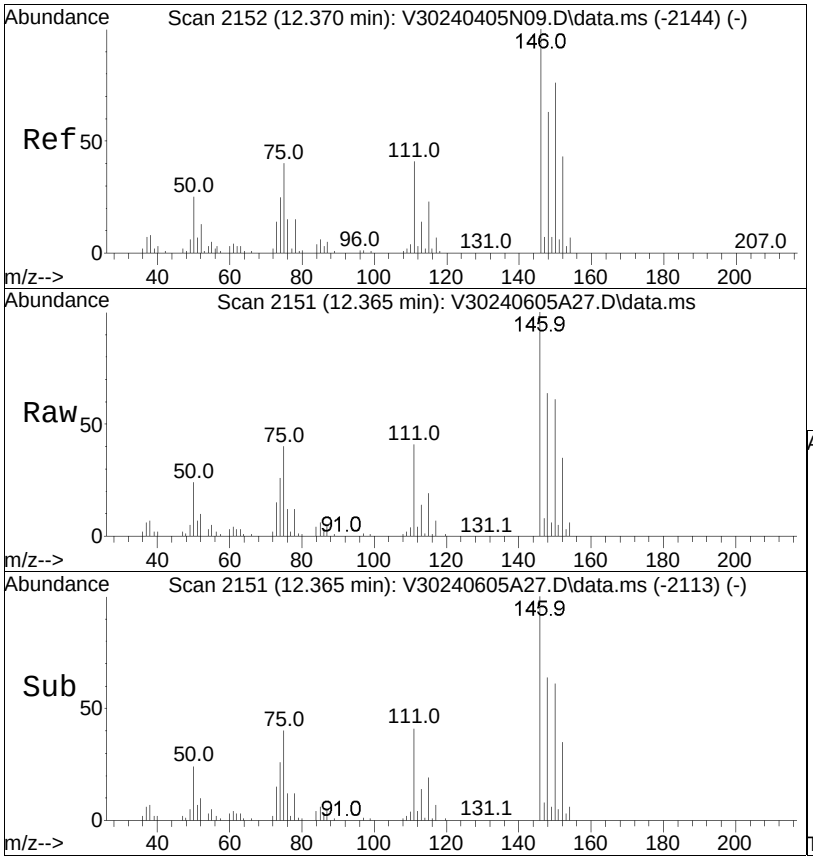


#105
1,3-Dichlorobenzene
Concen: 9.32 ug/L
RT: 12.271 min Scan# 2133
Delta R.T. -0.005 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion:146 Resp: 155851

Ion	Ratio	Lower	Upper
146	100		
111	41.9	28.0	58.1
148	63.2	40.8	84.6

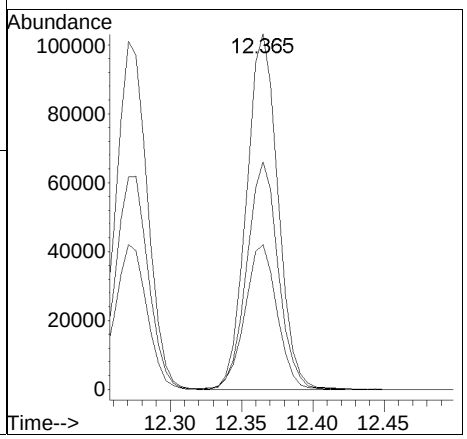


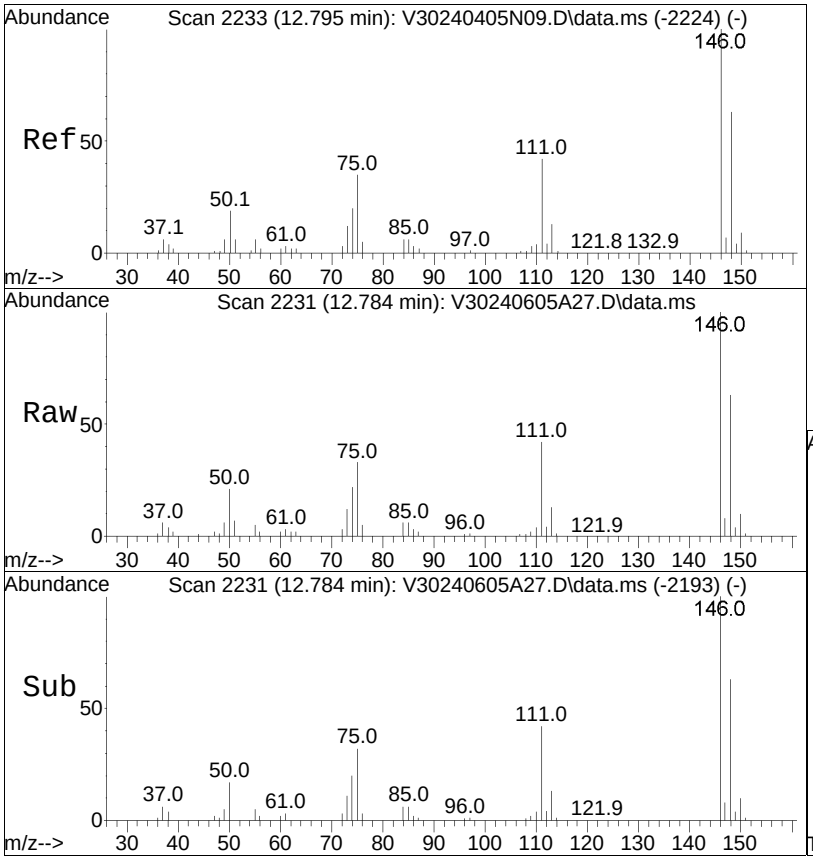


#106
1,4-Dichlorobenzene
Concen: 9.31 ug/L
RT: 12.365 min Scan# 2151
Delta R.T. -0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion:146 Resp: 158717

Ion	Ratio	Lower	Upper
146	100		
111	41.7	33.7	50.5
148	64.0	50.8	76.2

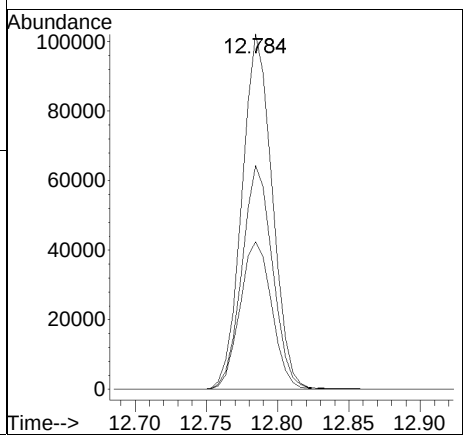


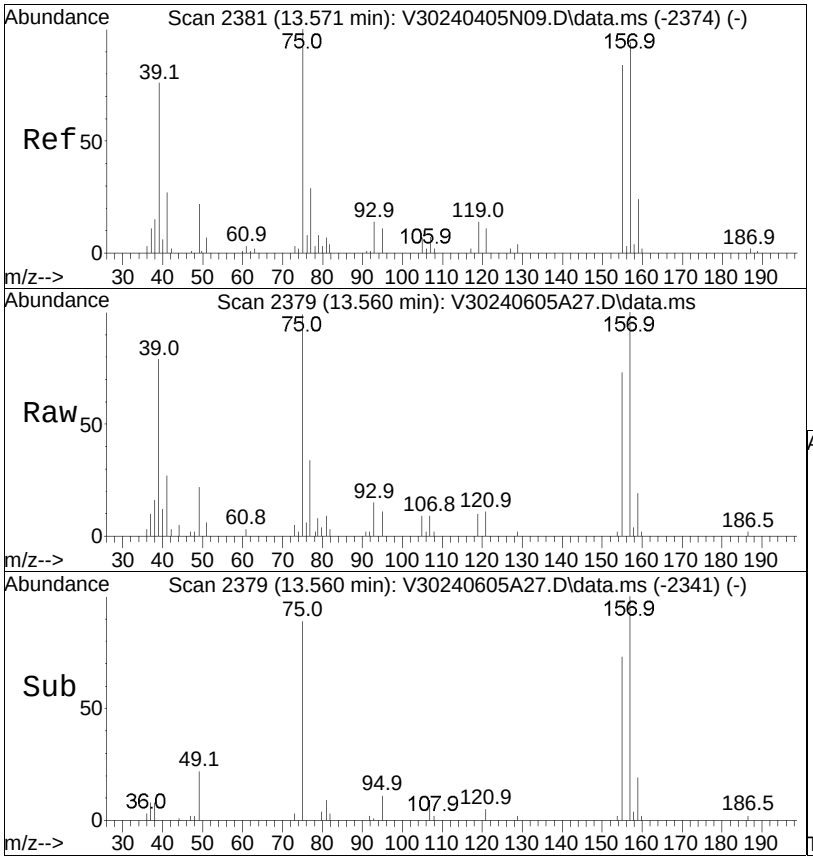


#109
1,2-Dichlorobenzene
Concen: 9.40 ug/L
RT: 12.784 min Scan# 2231
Delta R.T. 0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion:146 Resp: 151767

Ion	Ratio	Lower	Upper
146	100		
111	43.5	29.5	61.3
148	63.5	41.3	85.9

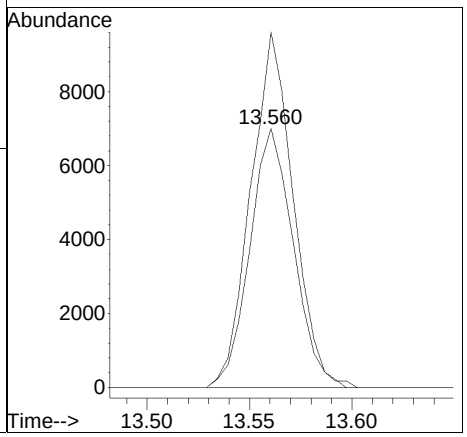


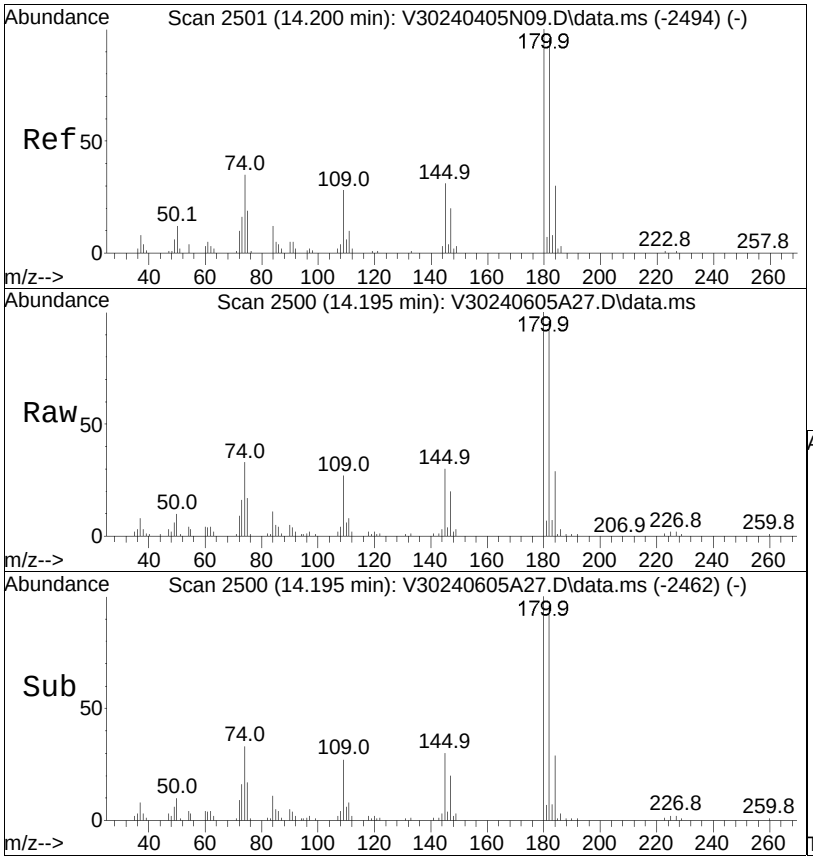


#111
1,2-Dibromo-3-chloropropane
Concen: 8.71 ug/L
RT: 13.560 min Scan# 2379
Delta R.T. 0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion:155 Resp: 10408

Ion	Ratio	Lower	Upper
155	100		
157	132.4	105.1	157.7

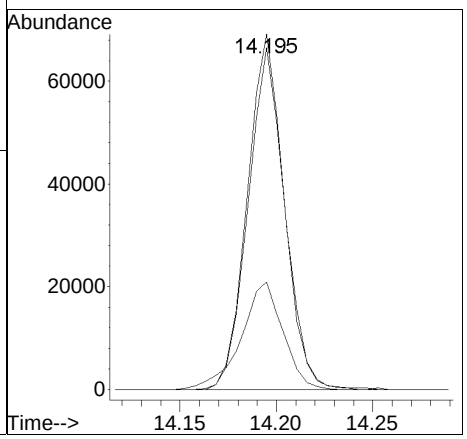


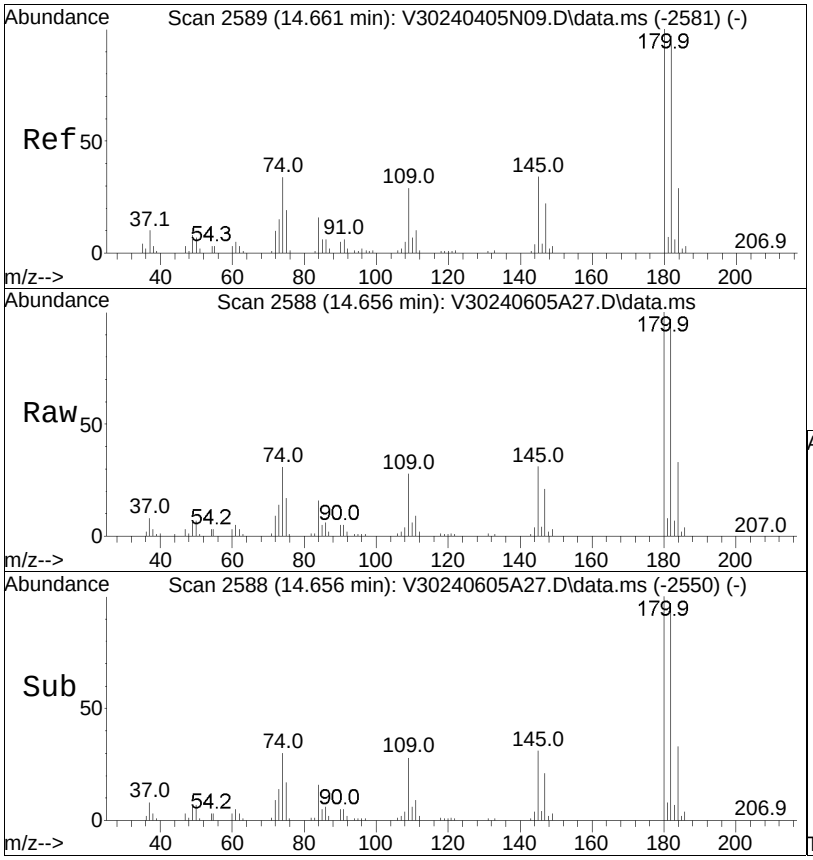


#114
1,2,4-Trichlorobenzene
Concen: 8.46 ug/L
RT: 14.195 min Scan# 2500
Delta R.T. -0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion:180 Resp: 91947

Ion	Ratio	Lower	Upper
180	100		
182	95.2	75.7	113.5
145	34.1	27.4	41.2

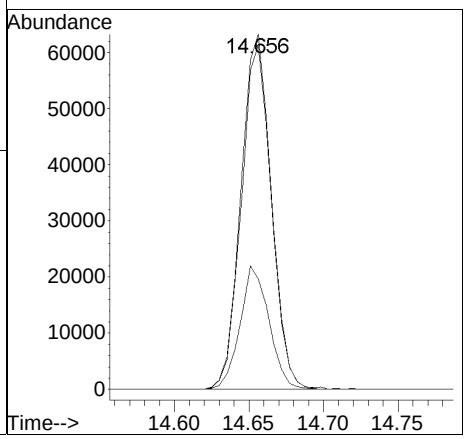




#116
1,2,3-Trichlorobenzene
Concen: 8.68 ug/L
RT: 14.656 min Scan# 2588
Delta R.T. 0.000 min
Lab File: V30240605A27.D
Acq: 05 Jun 2024 04:20 pm

Tgt Ion:180 Resp: 89912

Ion	Ratio	Lower	Upper
180	100		
182	95.5	74.9	112.3
145	33.1	26.0	39.0

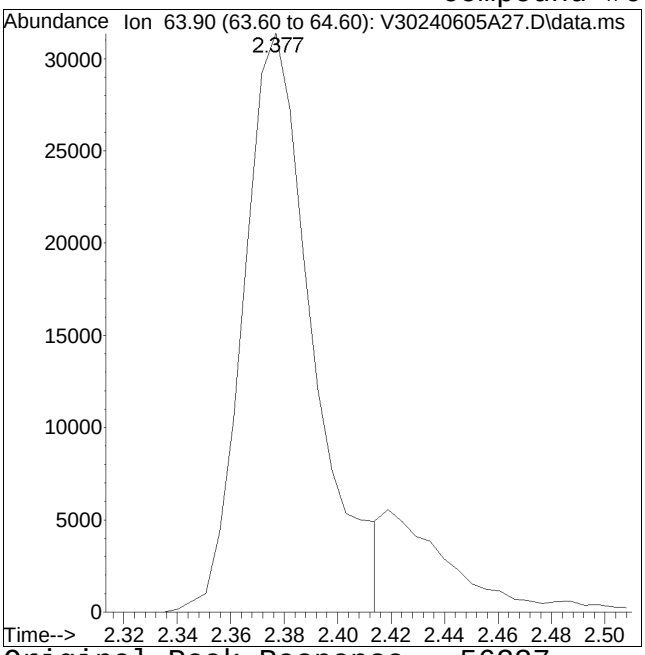


Manual Integration Report

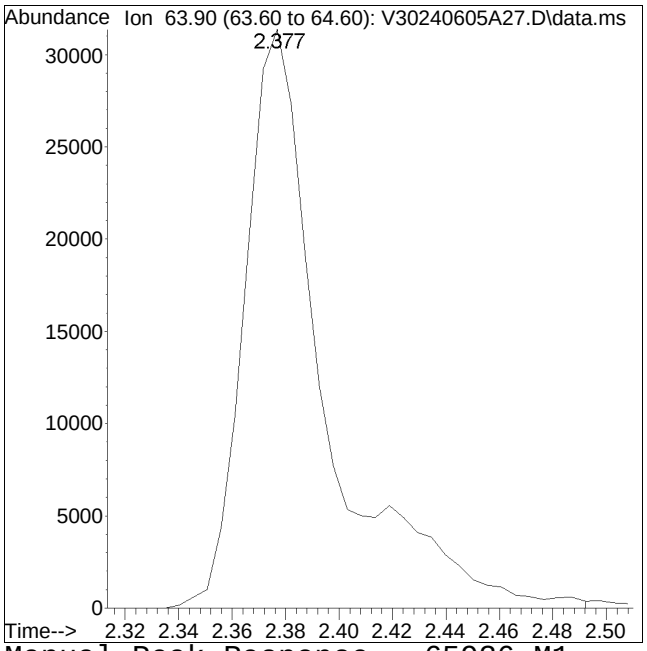
Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A27.D
Date Inj'd : 6/5/2024 4:20 pm
Sample : WG1930005-6,31,10,10,,a1

QMethod : V130_240429A_8260D.m
Operator : VOA130:MAG
Instrument : VOA130
Quant Date : 6/5/2024 4:54 pm

Compound #6: Chloroethane



Original Peak Response = 56237



Manual Peak Response = 65936 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A28.D
Acq On : 05 Jun 2024 04:42 pm
Operator : VOA130:MAG
Sample : WG1930005-7,31,10,10,,a2
Misc : WG1930005,ICAL21085
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 05 17:03:22 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240605A\V30240605A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.115	96	448966	10.000	ug/L	0.00
Standard Area 1 = 517502			Recovery = 86.76%			
63) Chlorobenzene-d5	9.665	117	334027	10.000	ug/L	0.00
Standard Area 1 = 376477			Recovery = 88.72%			
84) 1,4-Dichlorobenzene-d4	12.349	152	192708	10.000	ug/L	0.00
Standard Area 1 = 209535			Recovery = 91.97%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.297	113	133291	10.357	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.57%			
47) 1,2-Dichloroethane-d4	5.827	65	173664	12.607	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 126.07%			
64) Toluene-d8	7.814	98	441481	10.080	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.80%			
88) 4-Bromofluorobenzene	11.149	95	174570	9.981	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.81%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.680	85	102821	12.286	ug/L	96
3) Chloromethane	1.874	50	116978	13.755	ug/L	98
4) Vinyl chloride	1.947	62	115577	12.901	ug/L	99
5) Bromomethane	2.267	94	50049	9.888	ug/L	98
6) Chloroethane	2.377	64	68312M1	12.271	ug/L	
7) Trichlorofluoromethane	2.524	101	143975	13.736	ug/L	98
10) 1,1-Dichloroethene	3.027	96	75982	10.274	ug/L	91
11) Carbon disulfide	3.053	76	235602	11.701	ug/L	100
12) Freon-113	3.064	101	79589	10.895	ug/L	96
15) Methylene chloride	3.588	84	96380	11.312	ug/L	92
17) Acetone	3.625	43	23151	13.350	ug/L	95
18) trans-1,2-Dichloroethene	3.745	96	81769	10.305	ug/L	93
19) Methyl acetate	3.745	43	43417	11.339	ug/L #	90
21) Methyl tert-butyl ether	3.845	73	173391	9.782	ug/L	94
25) 1,1-Dichloroethane	4.333	63	185020	12.396	ug/L	99
30) cis-1,2-Dichloroethene	4.852	96	91907	9.996	ug/L	92
33) Bromochloromethane	5.046	128	41128	9.806	ug/L	83
34) Cyclohexane	5.061	56	152707	11.820	ug/L	95
35) Chloroform	5.119	83	183873	12.755	ug/L	95
37) Carbon tetrachloride	5.261	117	116662	12.005	ug/L	97

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A28.D
Acq On : 05 Jun 2024 04:42 pm
Operator : VOA130:MAG
Sample : WG1930005-7,31,10,10,,a2
Misc : WG1930005,ICAL21085
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 05 17:03:22 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240605A\V30240605A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) 1,1,1-Trichloroethane	5.329	97	140166	11.708	ug/L		96
42) 2-Butanone	5.407	43	27740	12.270	ug/L	#	88
45) Benzene	5.696	78	323704	11.179	ug/L		98
48) 1,2-Dichloroethane	5.895	62	120003	11.916	ug/L		97
51) Methyl cyclohexane	6.294	83	113115	9.525	ug/L		95
52) Trichloroethene	6.294	95	78437	9.828	ug/L		98
55) 1,2-Dichloropropane	6.839	63	86689	11.320	ug/L		97
58) Bromodichloromethane	6.912	83	116951	11.063	ug/L	#	98
61) 1,4-Dioxane	7.117	88	31458	486.356	ug/L		95
62) cis-1,3-Dichloropropene	7.604	75	110956	9.355	ug/L	#	88
65) Toluene	7.872	92	195240	10.700	ug/L		100
66) 4-Methyl-2-pentanone	8.307	58	18077	10.019	ug/L		95
67) Tetrachloroethene	8.323	166	69196	9.247	ug/L		99
69) trans-1,3-Dichloropropene	8.354	75	97511	9.844	ug/L	#	85
72) 1,1,2-Trichloroethane	8.538	83	51260	10.406	ug/L		99
73) Chlorodibromomethane	8.753	129	66362	9.904	ug/L		99
75) 1,2-Dibromoethane	9.030	107	55354	9.653	ug/L		99
77) 2-Hexanone	9.319	43	32471	10.504	ug/L		96
78) Chlorobenzene	9.686	112	201229	10.153	ug/L	#	86
79) Ethylbenzene	9.728	91	377745	11.079	ug/L		99
81) p/m Xylene	9.917	106	288209	21.017	ug/L		99
82) o Xylene	10.451	106	275596	20.648	ug/L		99
83) Styrene	10.514	104	456744	20.830	ug/L		98
85) Bromoform	10.535	173	37291	9.130	ug/L		97
87) Isopropylbenzene	10.829	105	358932	10.466	ug/L		99
92) 1,1,2,2-Tetrachloroethane	11.385	83	80113	11.376	ug/L		99
105) 1,3-Dichlorobenzene	12.271	146	166006	9.723	ug/L		99
106) 1,4-Dichlorobenzene	12.365	146	166930	9.591	ug/L		99
109) 1,2-Dichlorobenzene	12.785	146	162764	9.874	ug/L		98
111) 1,2-Dibromo-3-chloropr...	13.560	155	11293	9.259	ug/L		97
114) 1,2,4-Trichlorobenzene	14.195	180	98609	8.884	ug/L		98
116) 1,2,3-Trichlorobenzene	14.656	180	96895	9.160	ug/L		97

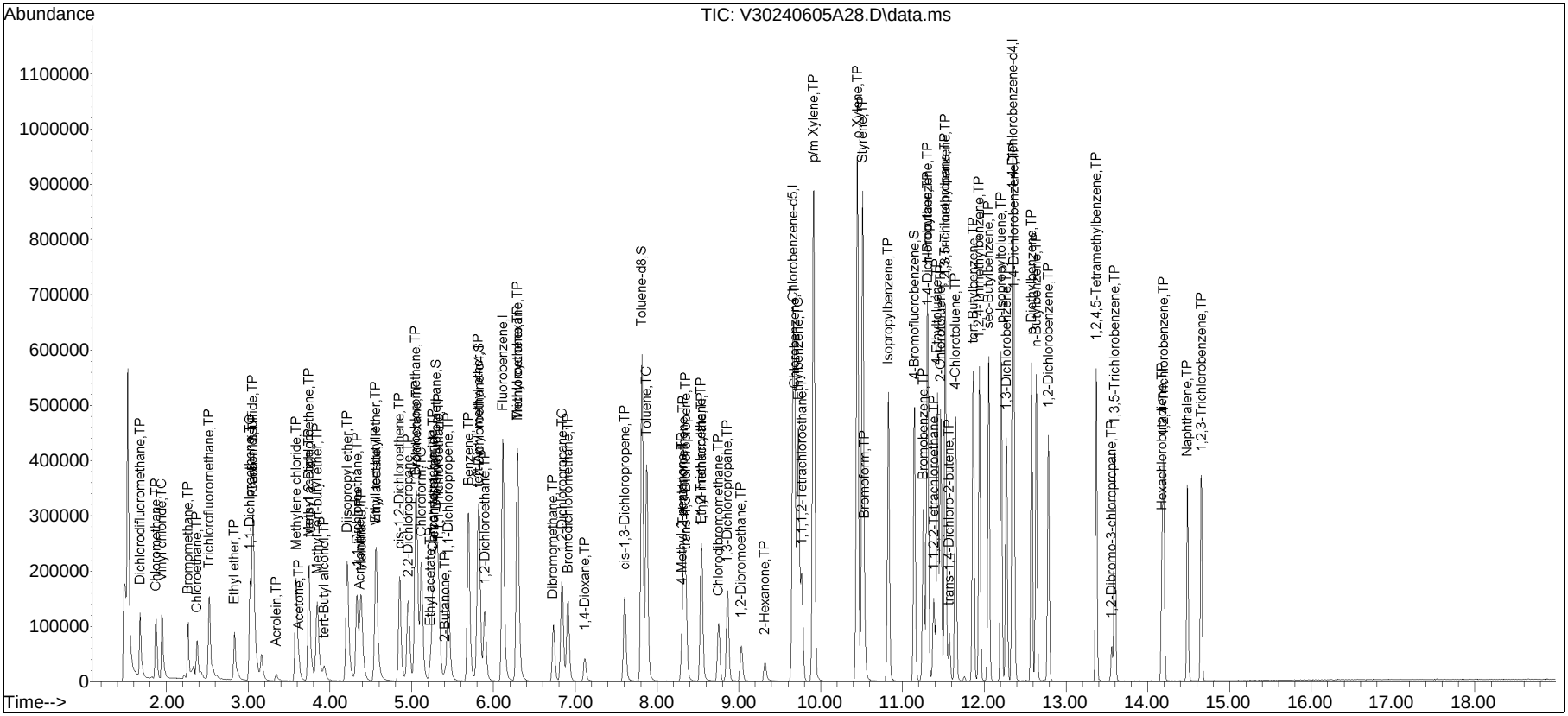
(#) = qualifier out of range (m) = manual integration (+) = signals summed

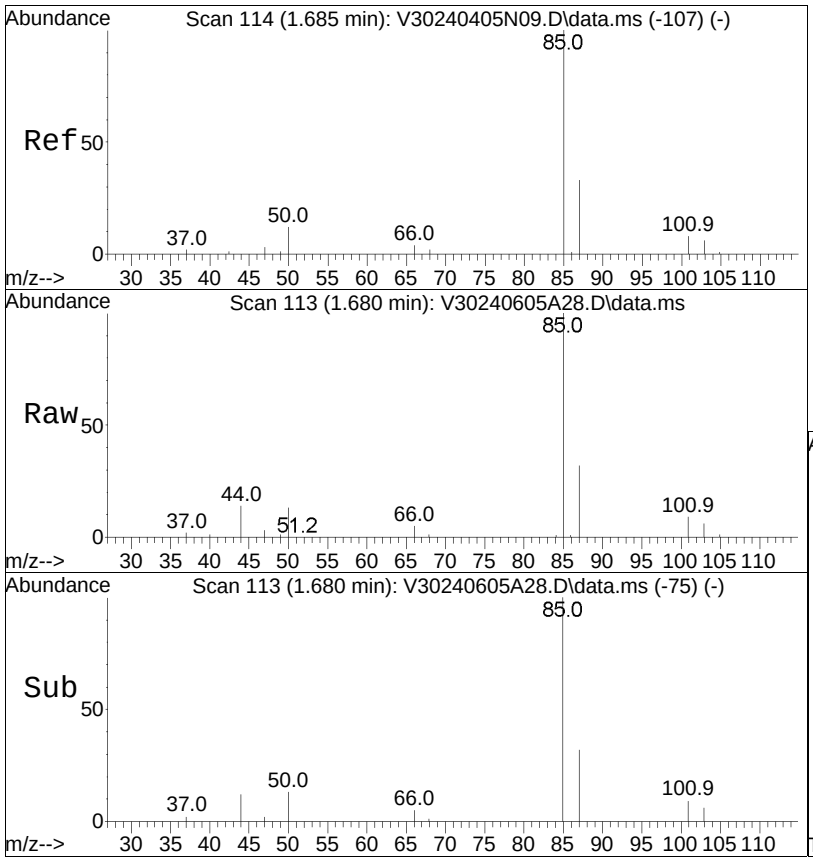
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A28.D
Acq On : 05 Jun 2024 04:42 pm
Operator : VOA130:MAG
Sample : WG1930005-7,31,10,10,,a2
Misc : WG1930005,ICAL21085
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 05 17:03:22 2024
Quant Method : K:\VOA130\2024\240605A\V130_240429A_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

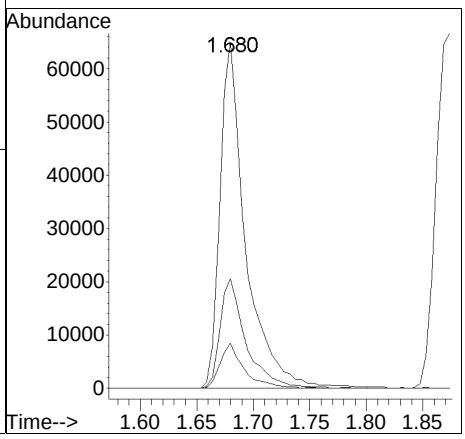


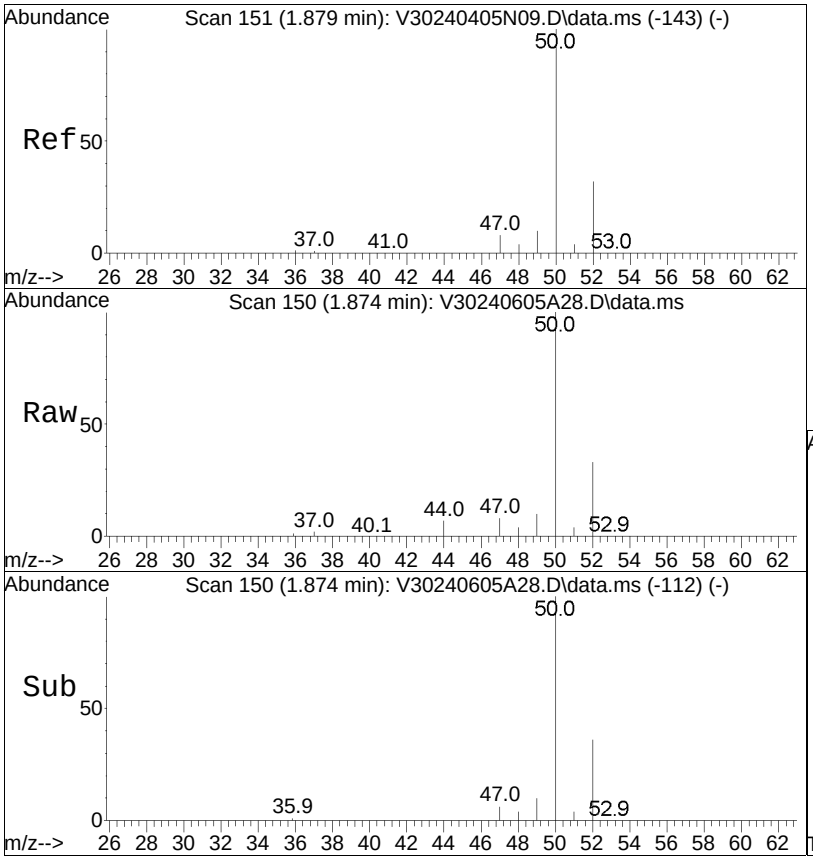


#2
Dichlorodifluoromethane
Concen: 12.29 ug/L
RT: 1.680 min Scan# 113
Delta R.T. -0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 85 Resp: 102821

Ion	Ratio	Lower	Upper
85	100		
87	31.9	20.2	42.0
50	12.2	10.1	20.9

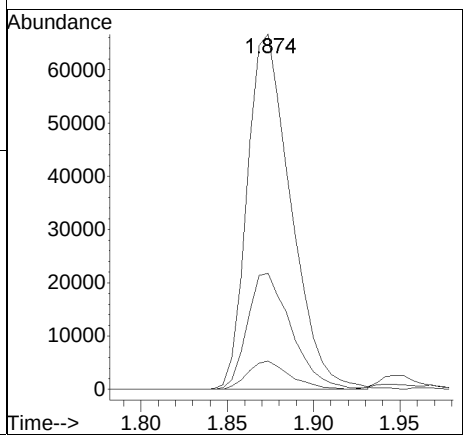


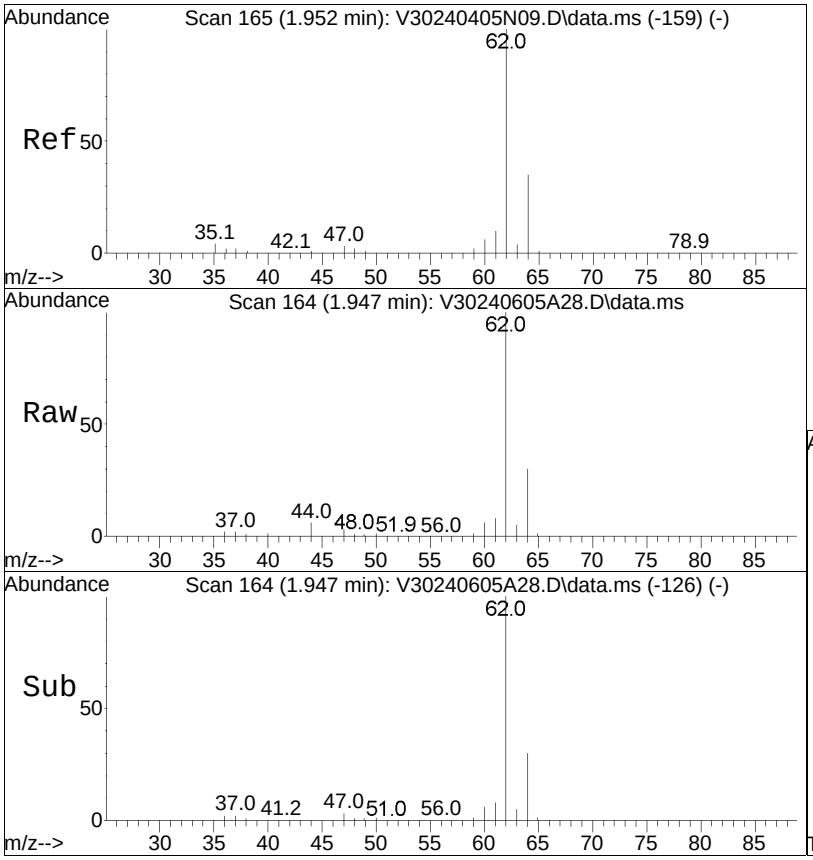


#3
Chloromethane
Concen: 13.76 ug/L
RT: 1.874 min Scan# 150
Delta R.T. -0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 50 Resp: 116978

Ion	Ratio	Lower	Upper
50	100		
52	32.9	25.1	37.7
47	7.8	6.5	9.7

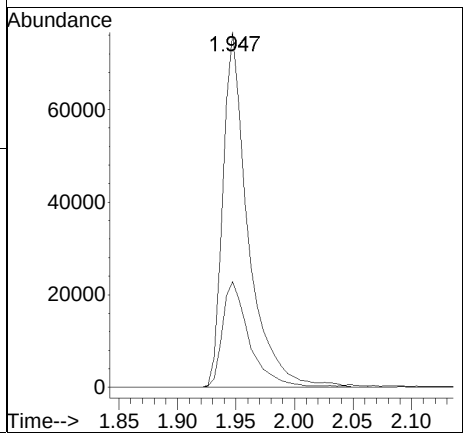


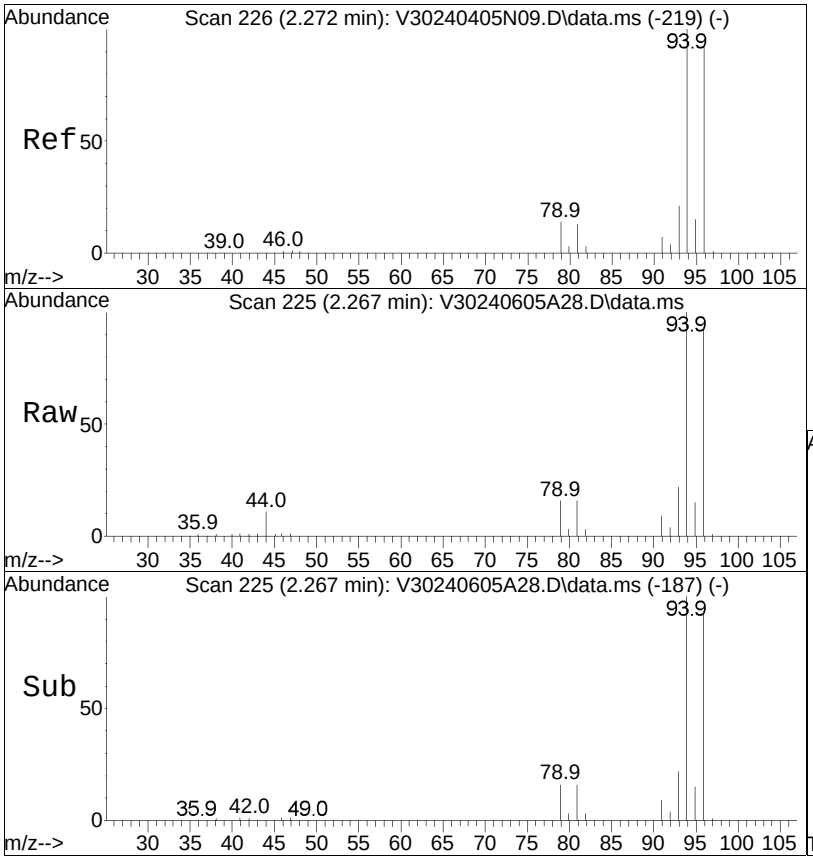


#4
Vinyl chloride
Concen: 12.90 ug/L
RT: 1.947 min Scan# 164
Delta R.T. 0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 62 Resp: 115577

Ion	Ratio	Lower	Upper
62	100		
64	31.5	25.7	38.5

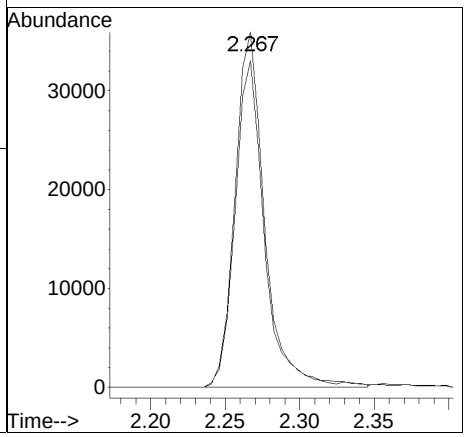


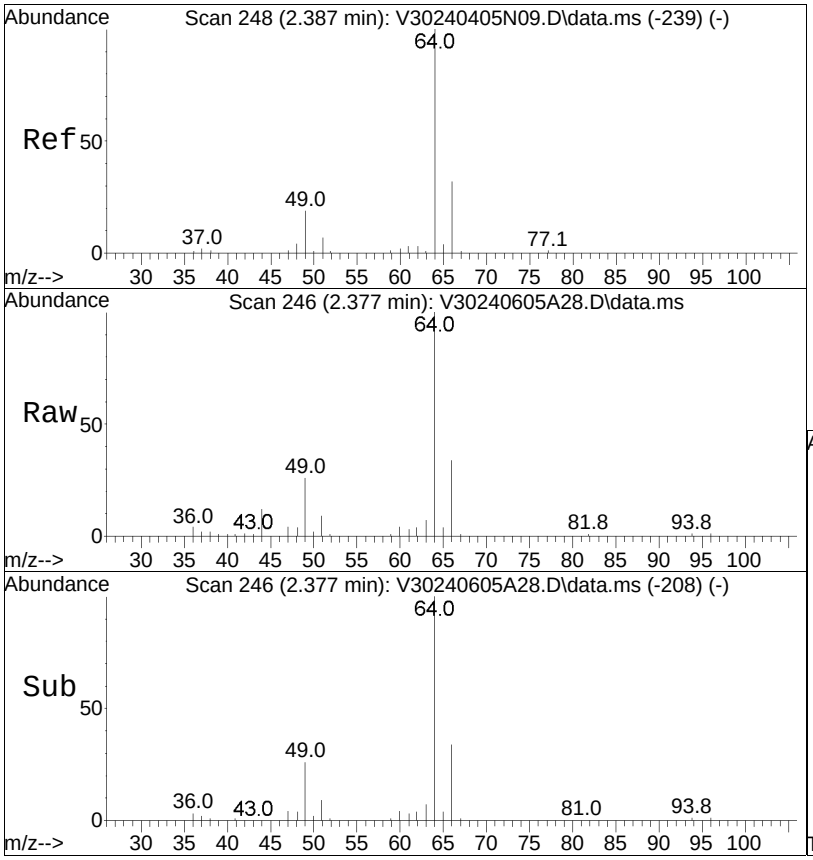


#5
Bromomethane
Concen: 9.89 ug/L
RT: 2.267 min Scan# 225
Delta R.T. -0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 94 Resp: 50049

Ion	Ratio	Lower	Upper
94	100		
96	90.0	73.7	110.5

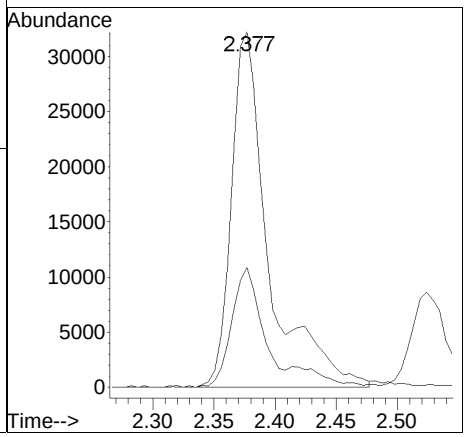


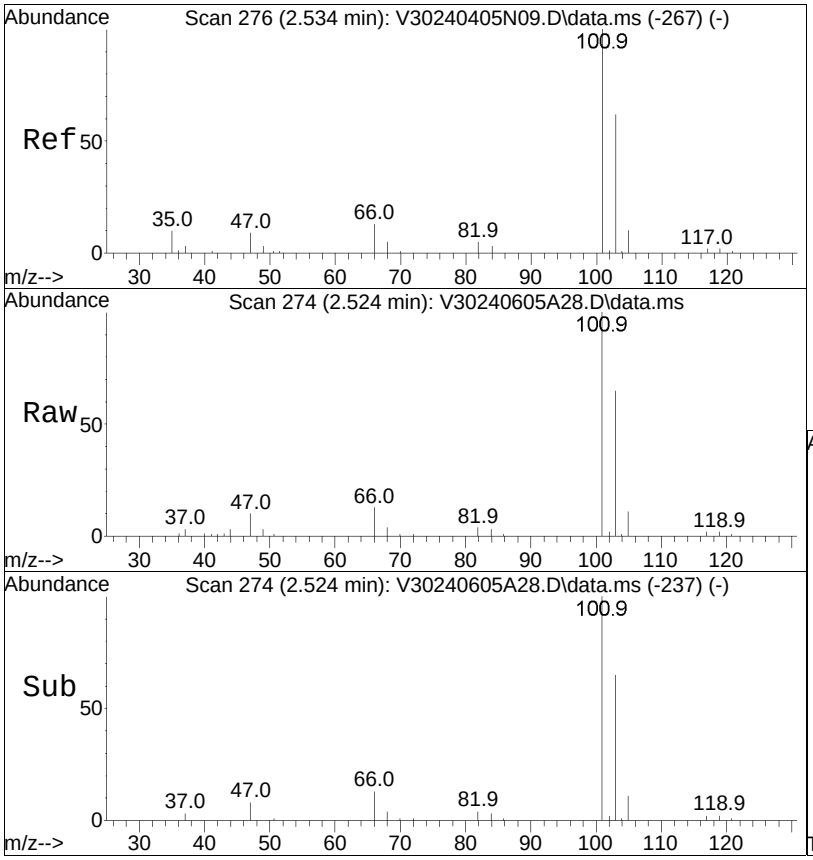


#6
Chloroethane
Concen: 12.27 ug/L M1
RT: 2.377 min Scan# 246
Delta R.T. -0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 64 Resp: 68312

Ion	Ratio	Lower	Upper
64	100		
66	27.5	25.3	37.9

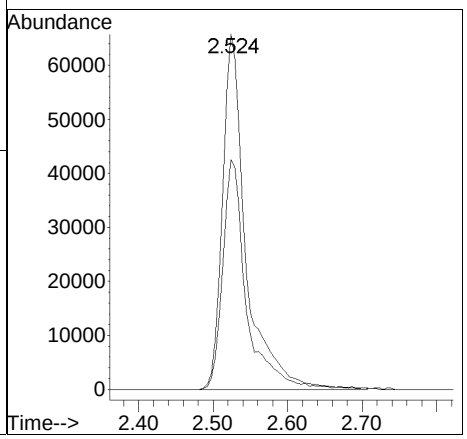


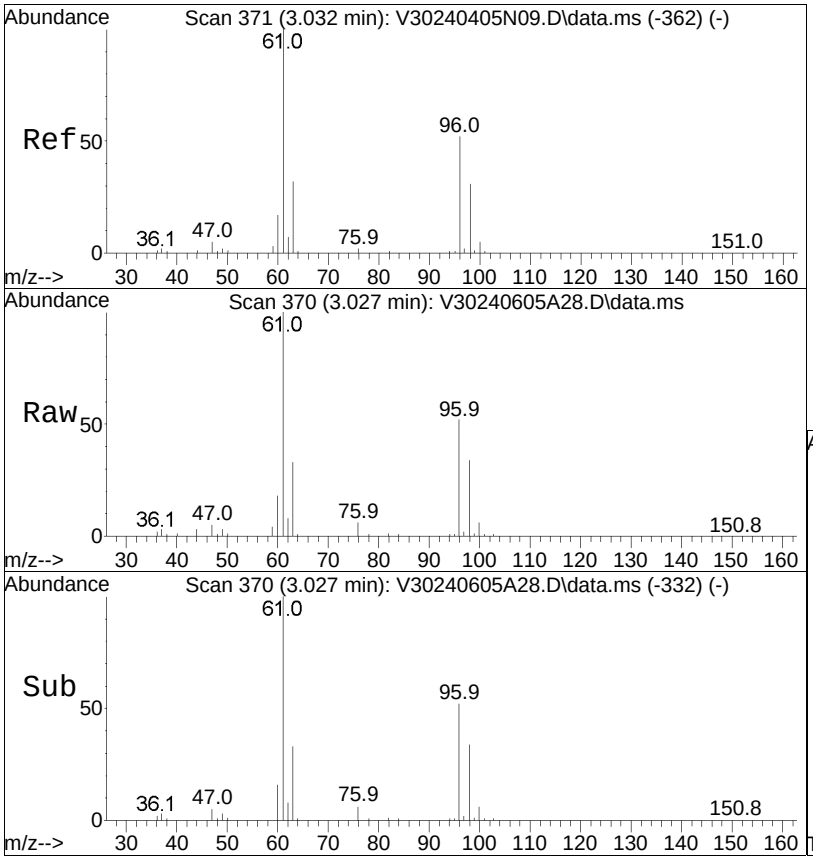


#7
Trichlorofluoromethane
Concen: 13.74 ug/L
RT: 2.524 min Scan# 274
Delta R.T. -0.005 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion:101 Resp: 143975

Ion	Ratio	Lower	Upper
101	100		
103	65.1	51.0	76.4

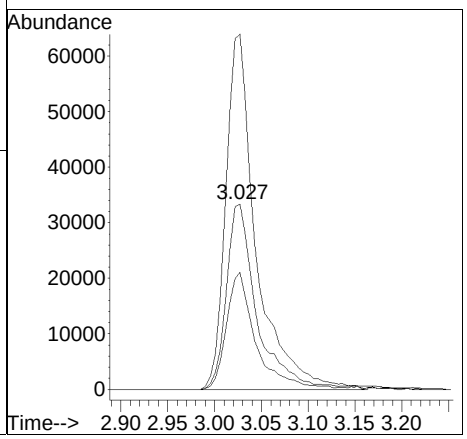


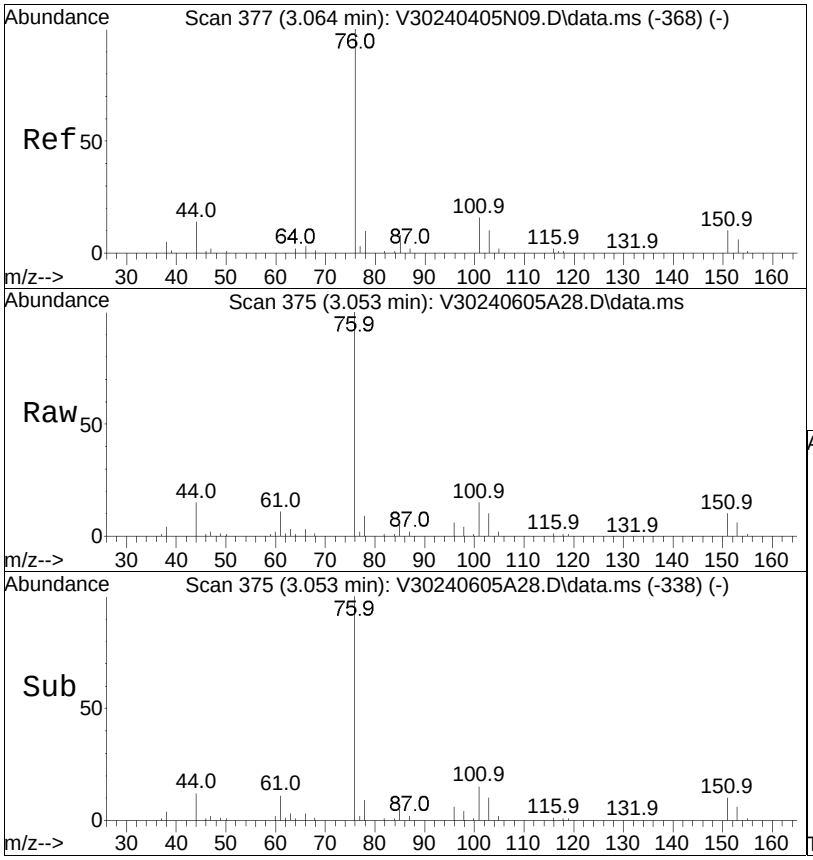


#10
1,1-Dichloroethene
Concen: 10.27 ug/L
RT: 3.027 min Scan# 370
Delta R.T. 0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 96 Resp: 75982

Ion	Ratio	Lower	Upper
96	100		
61	191.2	165.5	248.3
63	60.5	51.9	77.9

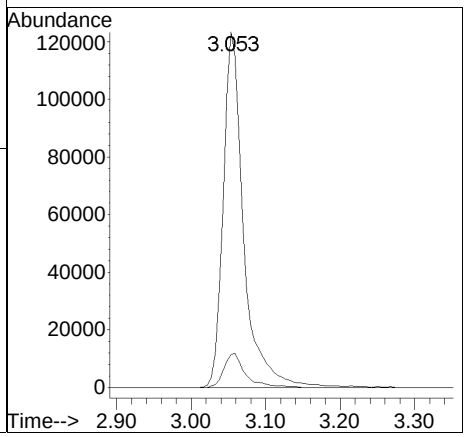


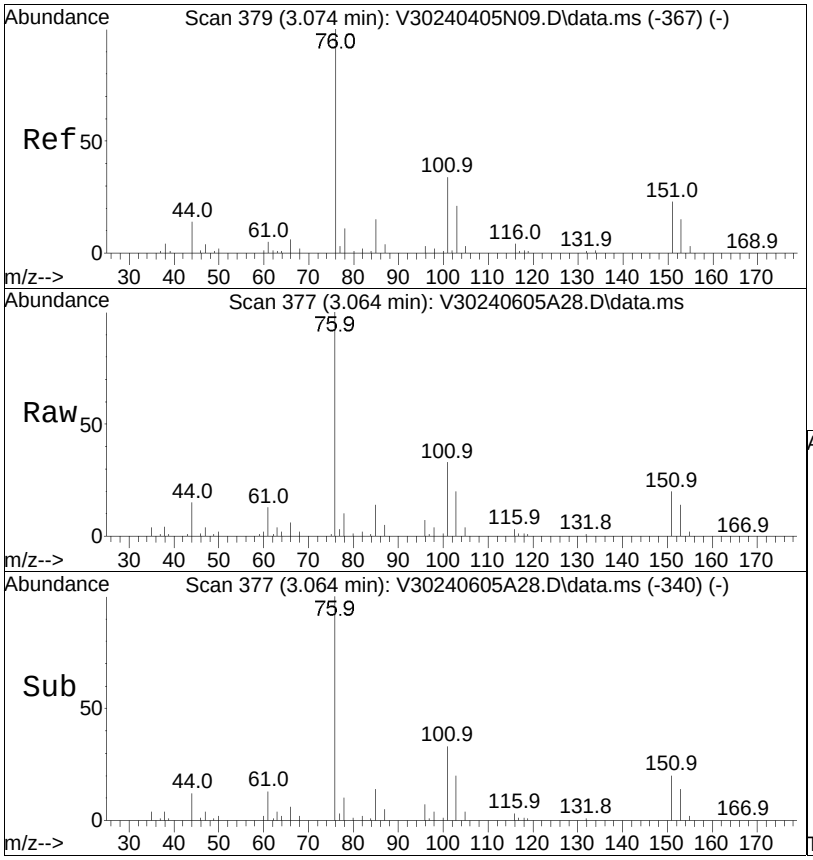


#11
Carbon disulfide
Concen: 11.70 ug/L
RT: 3.053 min Scan# 375
Delta R.T. -0.005 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 76 Resp: 235602

Ion	Ratio	Lower	Upper
76	100		
78	10.0	6.4	13.4

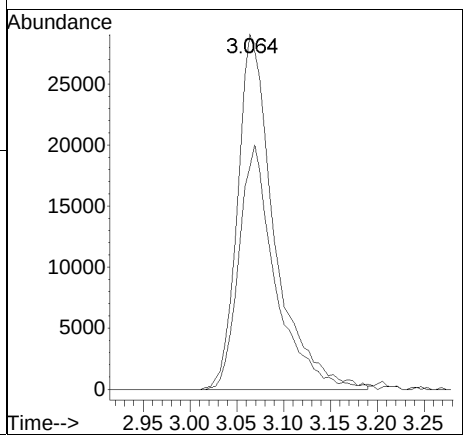


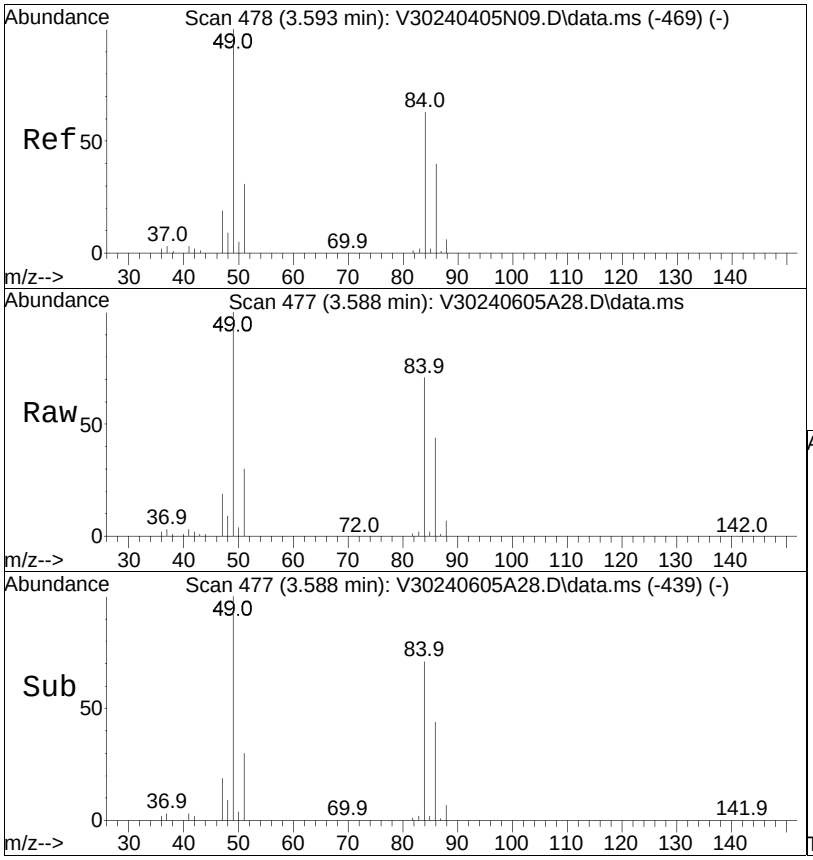


#12
Freon-113
Concen: 10.89 ug/L
RT: 3.064 min Scan# 377
Delta R.T. -0.005 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion:101 Resp: 79589

Ion	Ratio	Lower	Upper
101	100		
151	68.3	51.9	77.9

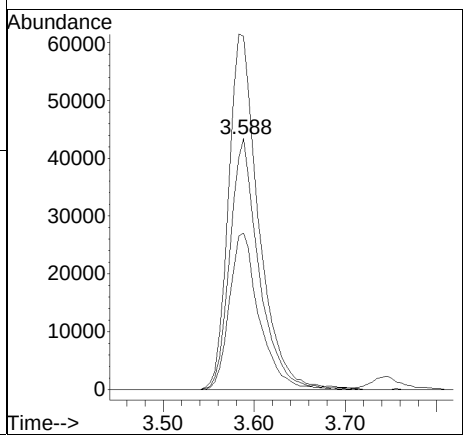


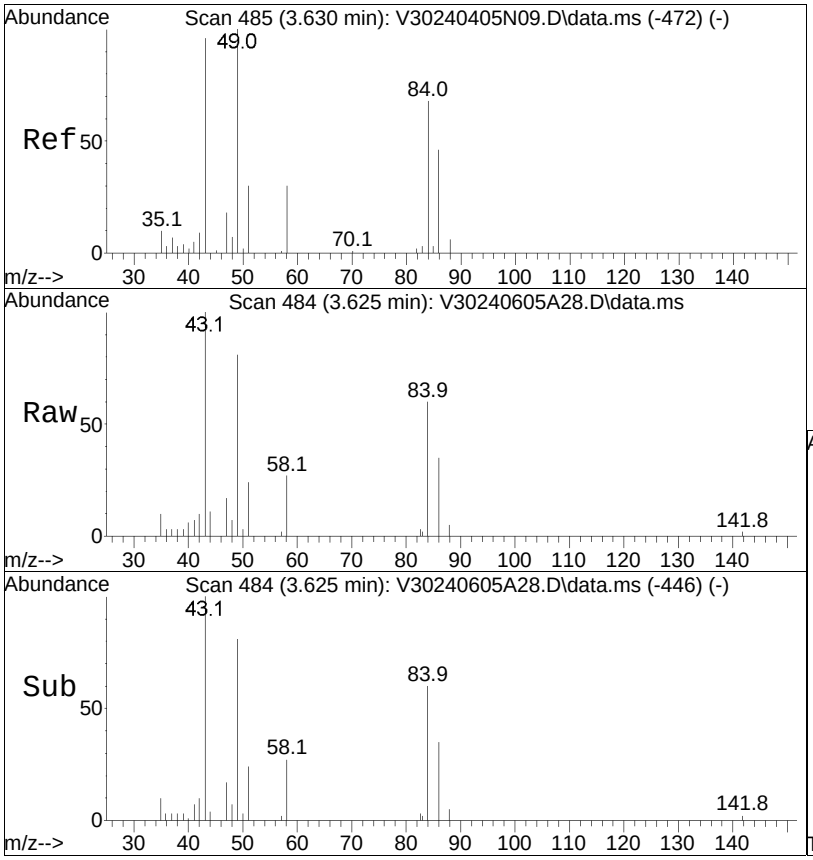


#15
Methylene chloride
Concen: 11.31 ug/L
RT: 3.588 min Scan# 477
Delta R.T. 0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 84 Resp: 96380

Ion	Ratio	Lower	Upper
84	100		
86	63.7	41.7	86.5
49	146.3	103.9	215.9

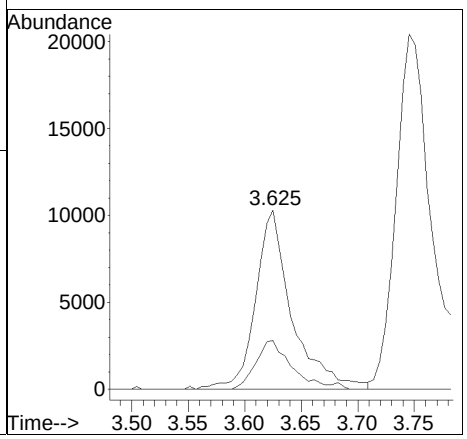


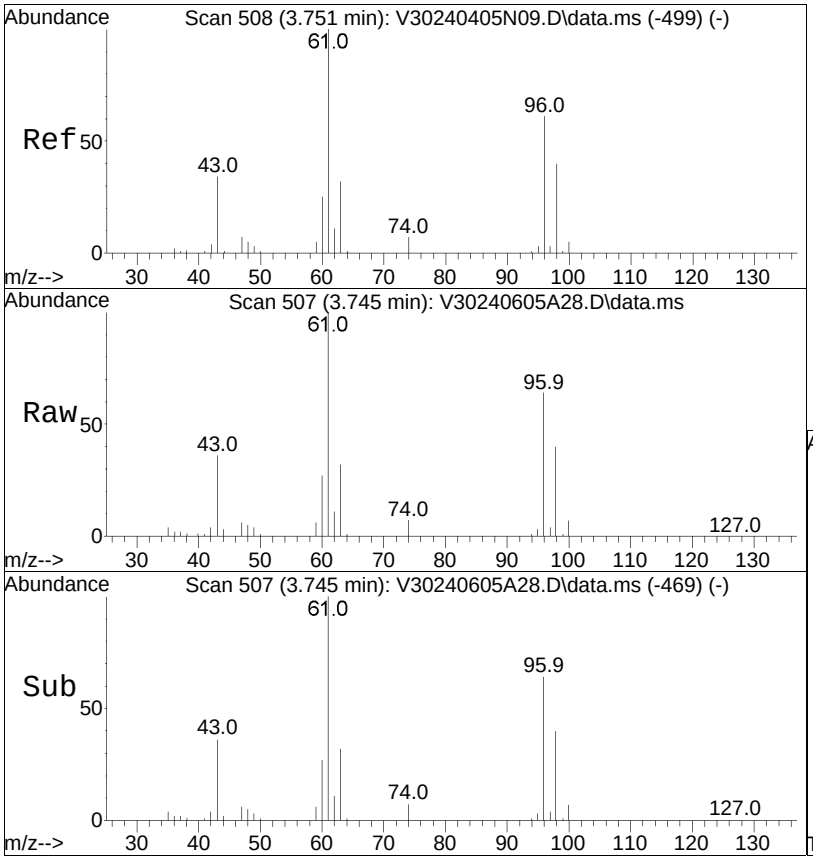


#17
Acetone
Concen: 13.35 ug/L
RT: 3.625 min Scan# 484
Delta R.T. -0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 43 Resp: 23151

Ion	Ratio	Lower	Upper
43	100		
58	27.5	20.1	30.1

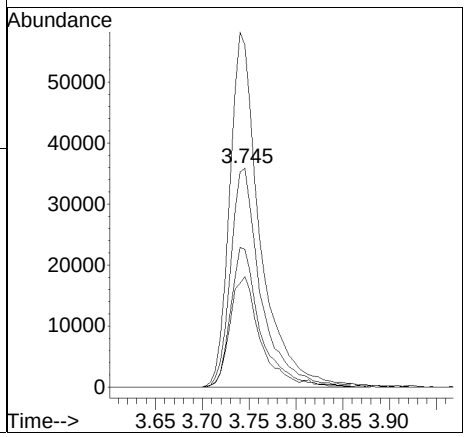


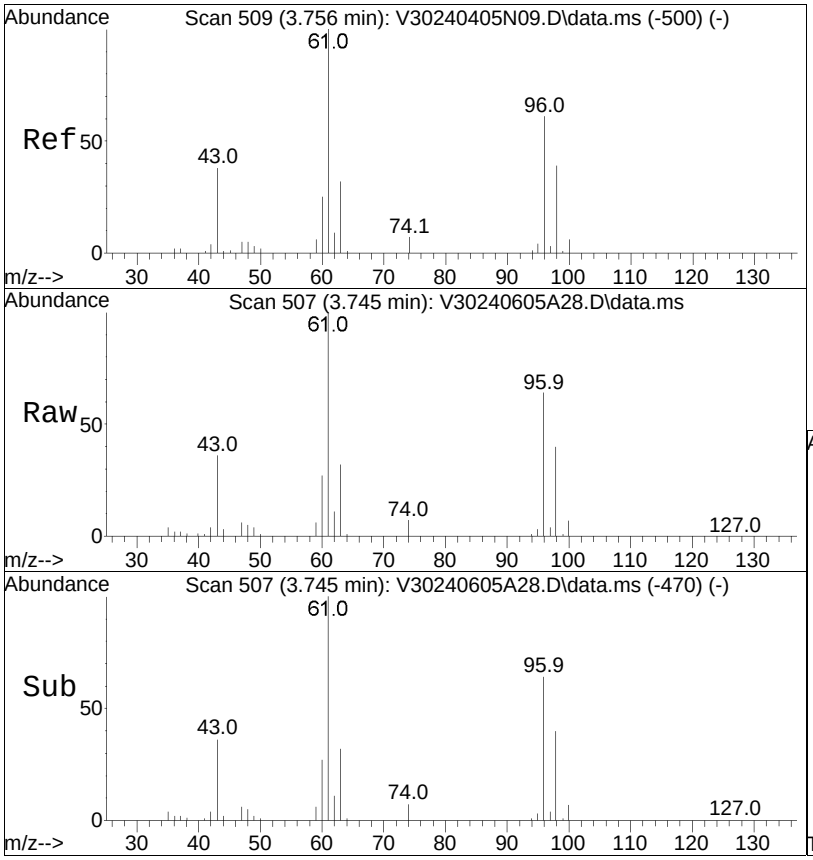


#18
trans-1,2-Dichloroethene
Concen: 10.31 ug/L
RT: 3.745 min Scan# 507
Delta R.T. 0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 96 Resp: 81769

Ion	Ratio	Lower	Upper
96	100		
61	161.1	113.6	236.0
98	62.4	40.8	84.8
63	51.3	36.5	75.7

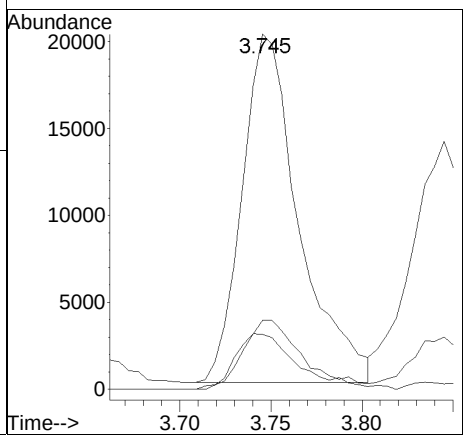


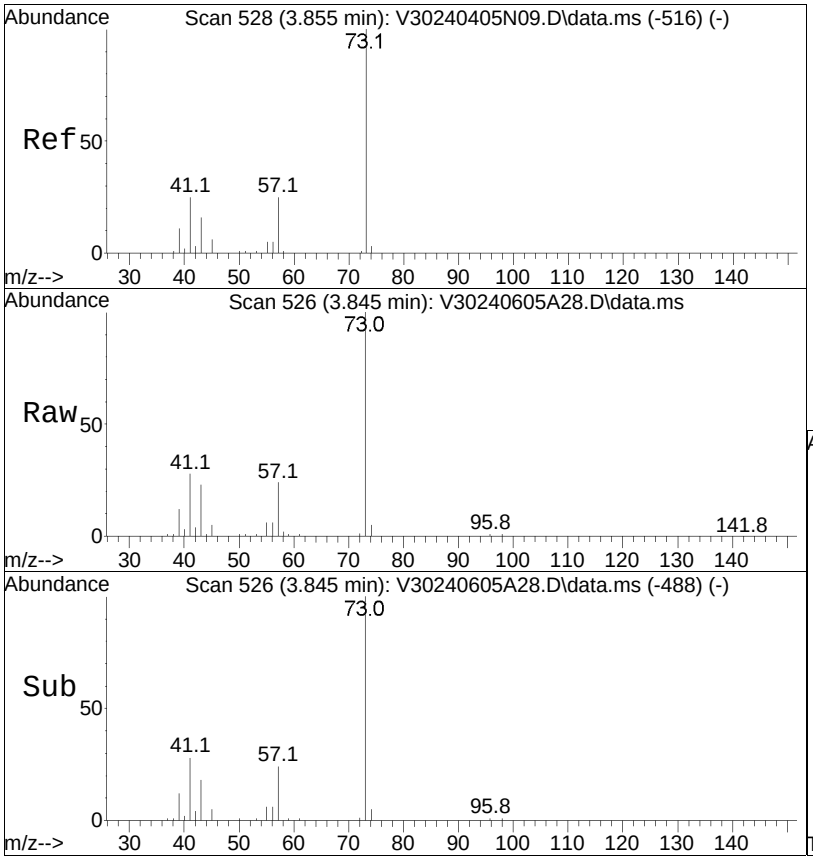


#19
Methyl acetate
Concen: 11.34 ug/L
RT: 3.745 min Scan# 507
Delta R.T. -0.006 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 43 Resp: 43417

Ion	Ratio	Lower	Upper
43	100		
74	20.8	14.6	22.0
59	17.7	9.3	13.9#

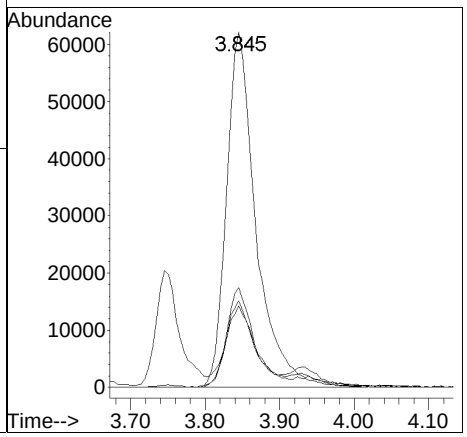


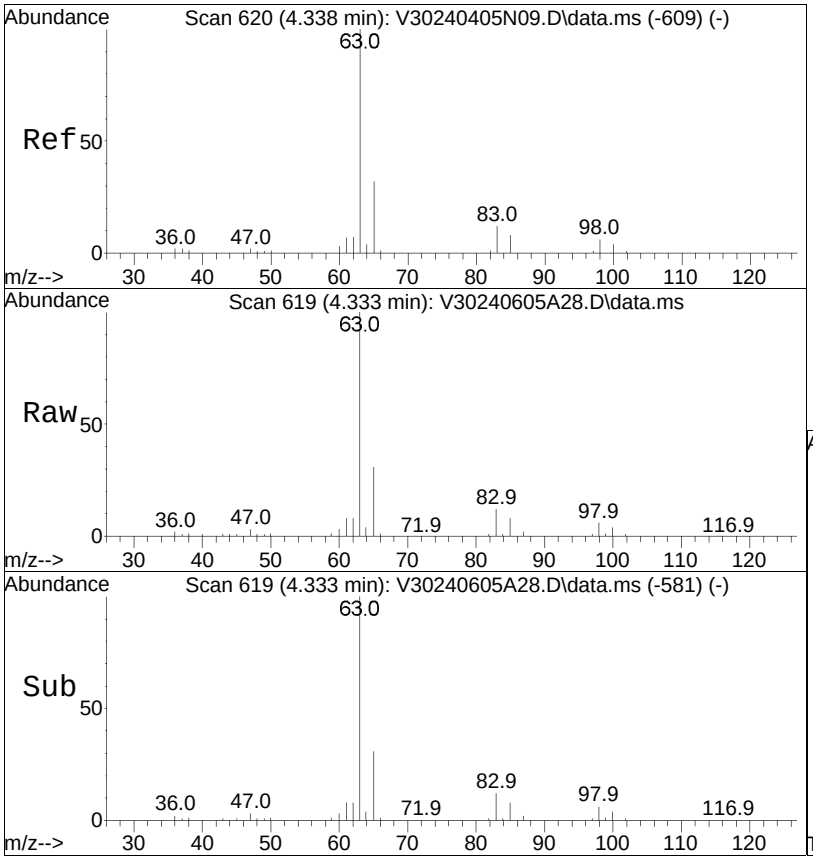


#21
Methyl tert-butyl ether
Concen: 9.78 ug/L
RT: 3.845 min Scan# 526
Delta R.T. 0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 73 Resp: 173391

Ion	Ratio	Lower	Upper
73	100		
57	23.6	15.5	32.1
43	18.2	16.6	34.6
41	25.6	17.2	35.6

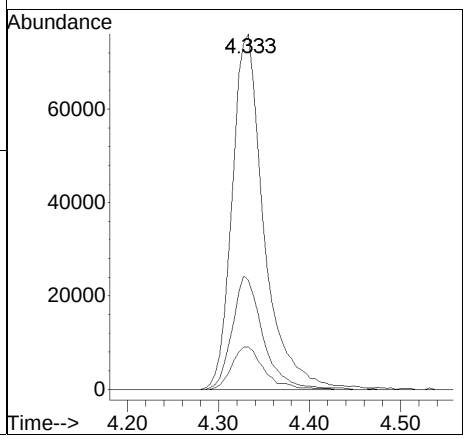


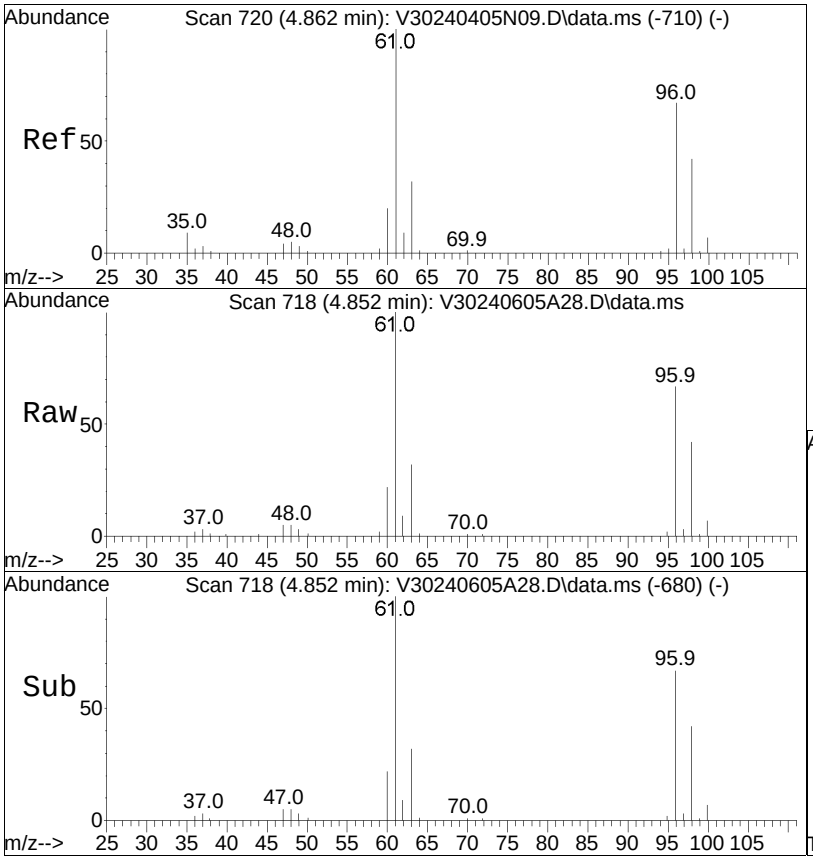


#25
1,1-Dichloroethane
Concen: 12.40 ug/L
RT: 4.333 min Scan# 619
Delta R.T. -0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 63 Resp: 185020

Ion	Ratio	Lower	Upper
63	100		
65	30.9	24.5	36.7
83	12.2	8.9	13.3

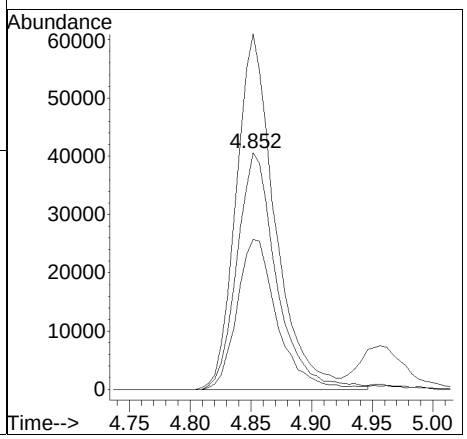


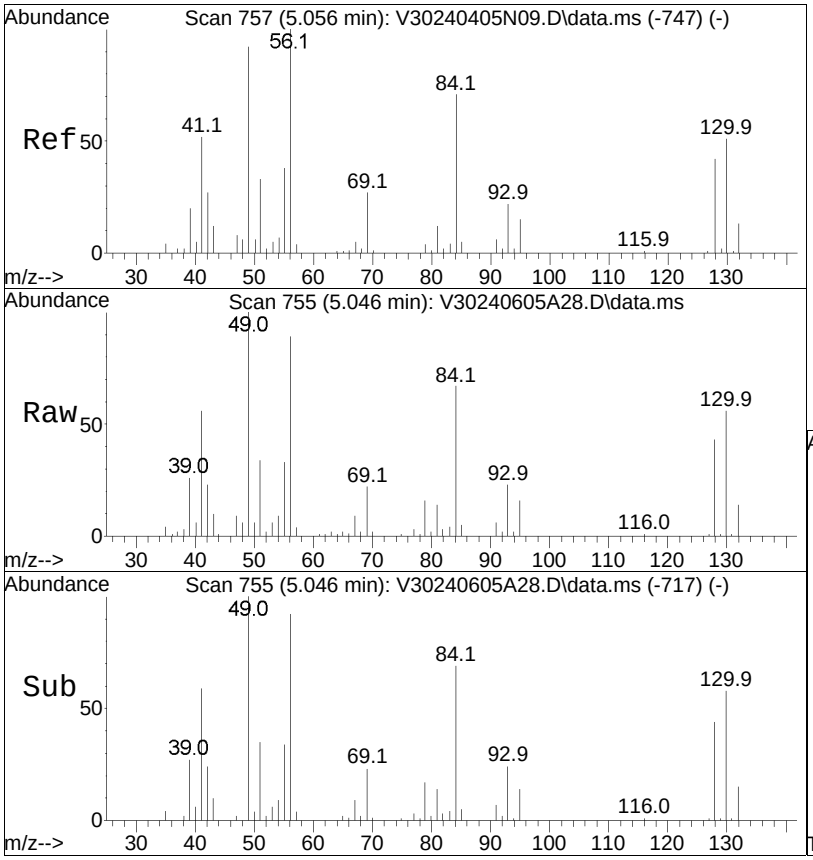


#30
cis-1,2-Dichloroethene
Concen: 10.00 ug/L
RT: 4.852 min Scan# 718
Delta R.T. -0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 96 Resp: 91907

Ion	Ratio	Lower	Upper
96	100		
61	146.7	129.3	193.9
98	64.0	51.4	77.2

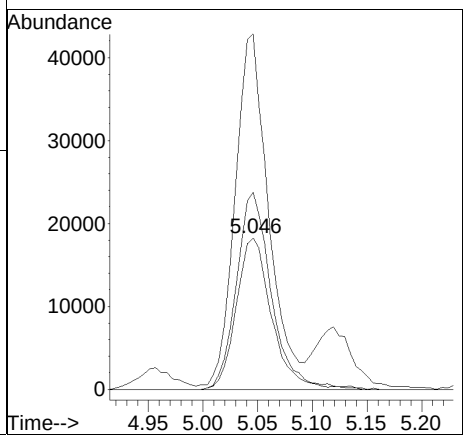


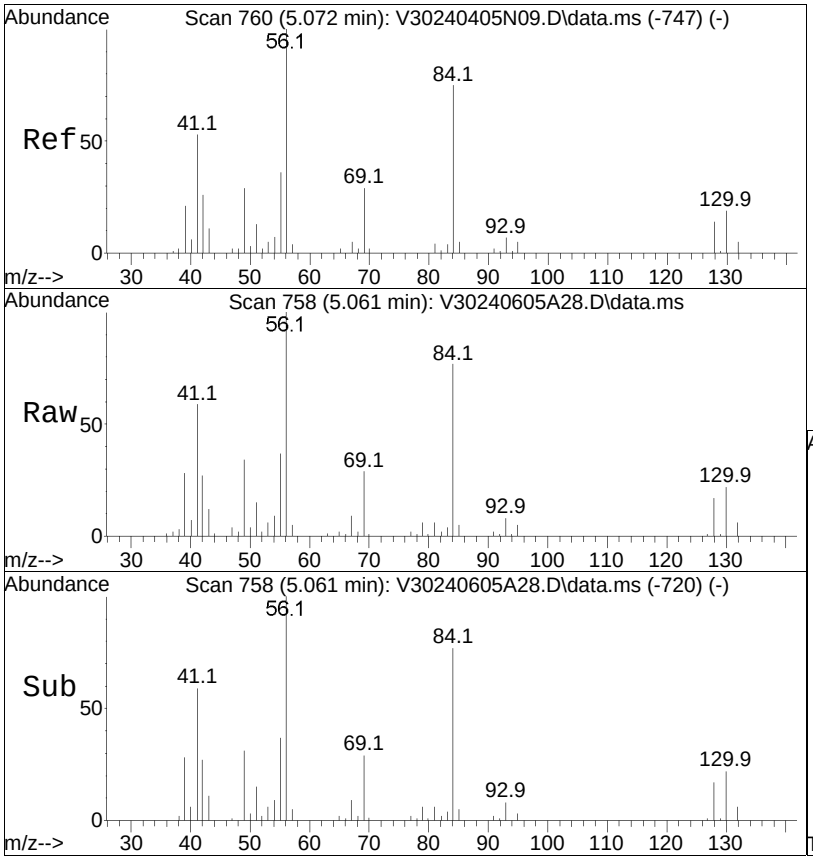


#33
Bromochloromethane
Concen: 9.81 ug/L
RT: 5.046 min Scan# 755
Delta R.T. -0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion:128 Resp: 41128

Ion	Ratio	Lower	Upper
128	100		
49	223.7	214.8	322.2
130	128.8	105.4	158.2

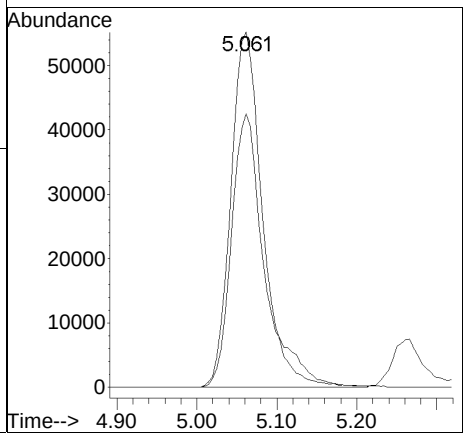


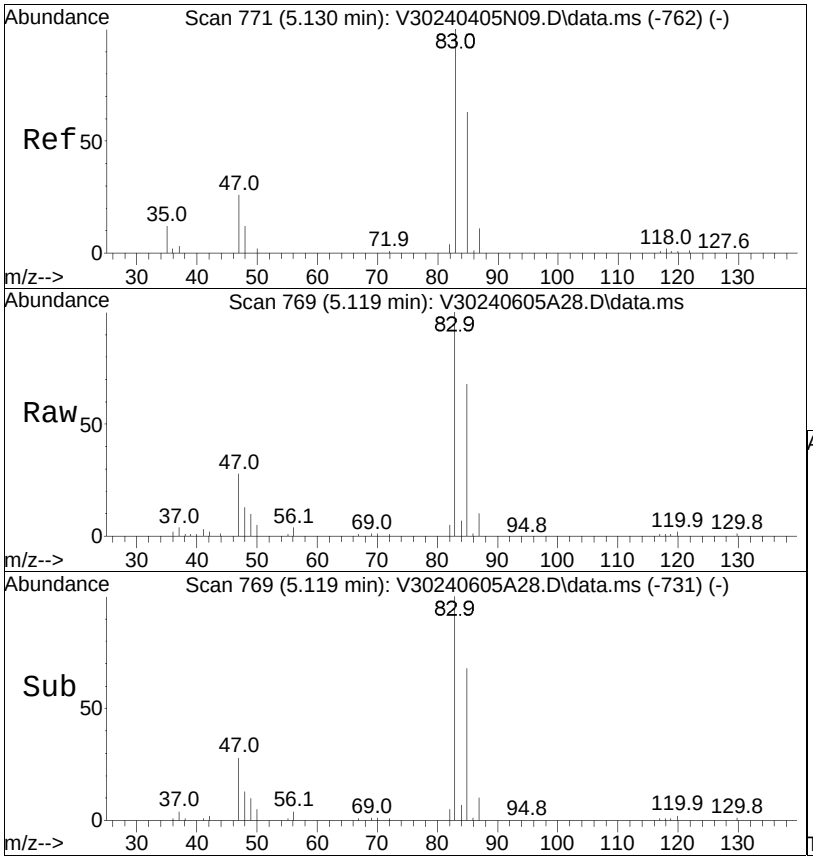


#34
Cyclohexane
Concen: 11.82 ug/L
RT: 5.061 min Scan# 758
Delta R.T. 0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 56 Resp: 152707

Ion	Ratio	Lower	Upper
56	100		
84	80.8	49.9	103.5

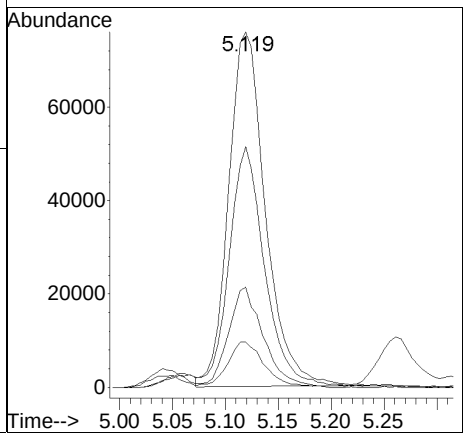


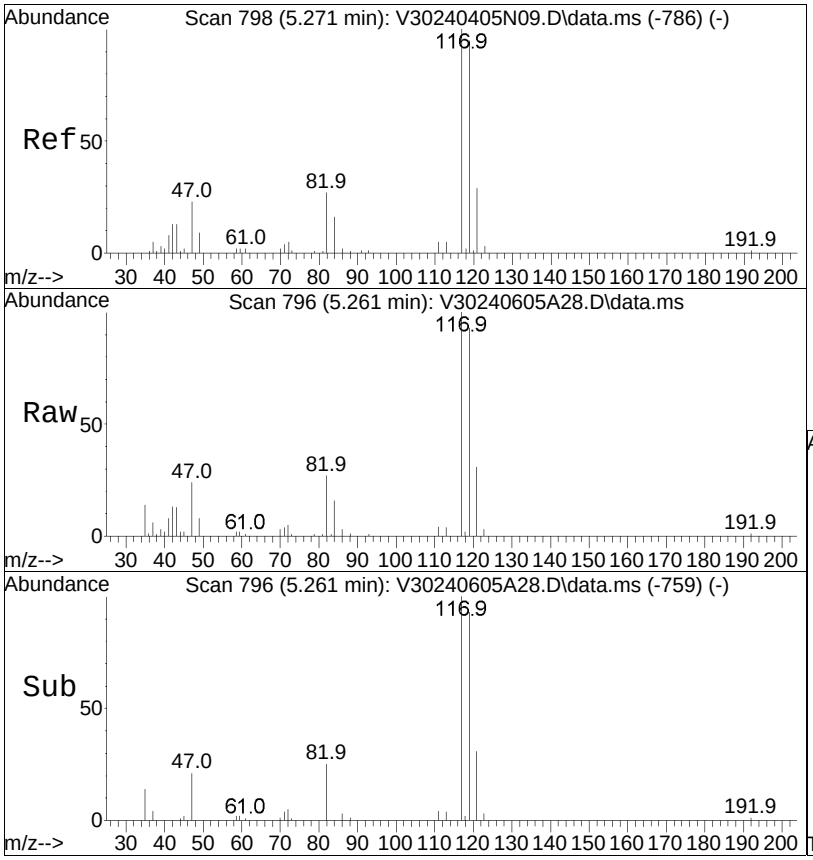


#35
Chloroform
Concen: 12.75 ug/L
RT: 5.119 min Scan# 769
Delta R.T. 0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 83 Resp: 183873

Ion	Ratio	Lower	Upper
83	100		
85	65.0	41.4	86.0
47	26.0	20.5	42.5
48	13.0	9.9	20.5

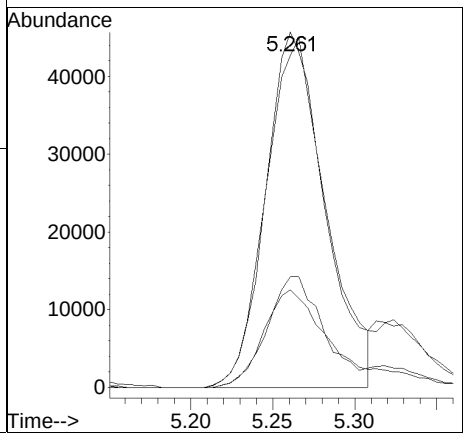


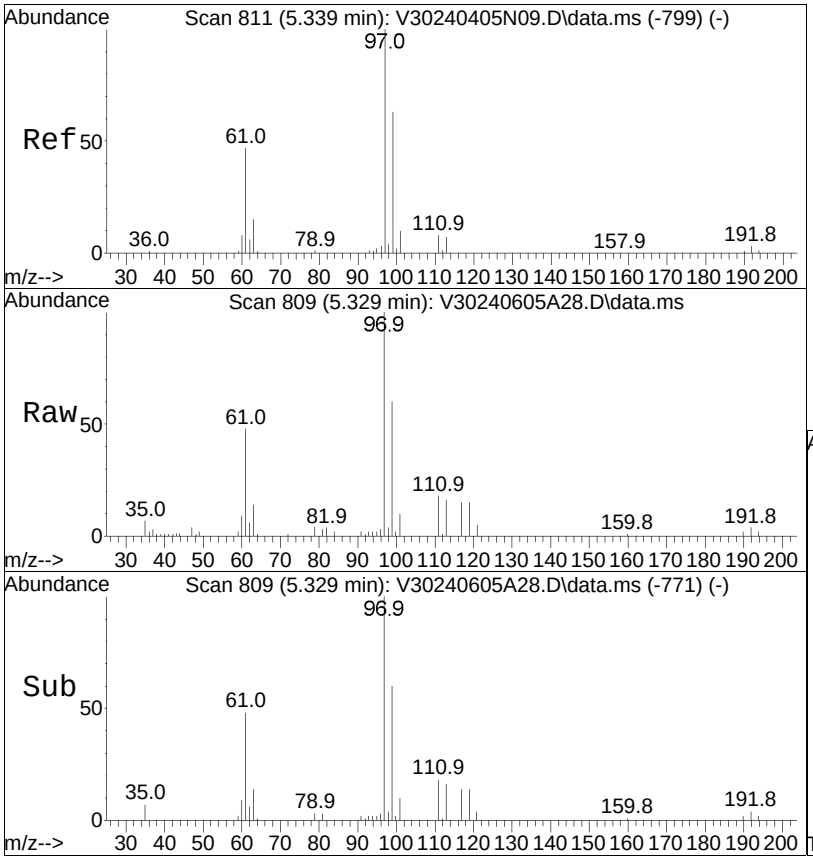


#37
Carbon tetrachloride
Concen: 12.01 ug/L
RT: 5.261 min Scan# 796
Delta R.T. -0.005 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion:117 Resp: 116662

Ion	Ratio	Lower	Upper
117	100		
119	98.4	62.0	128.8
121	30.6	19.6	40.6
82	32.1	18.8	39.0

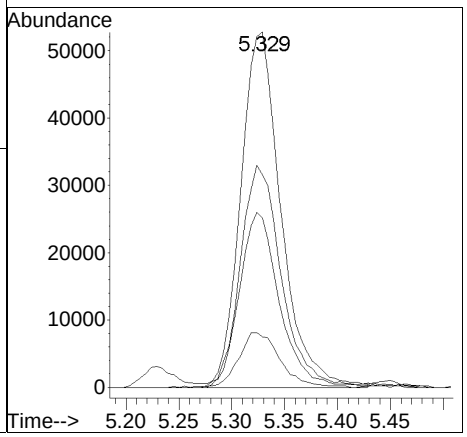


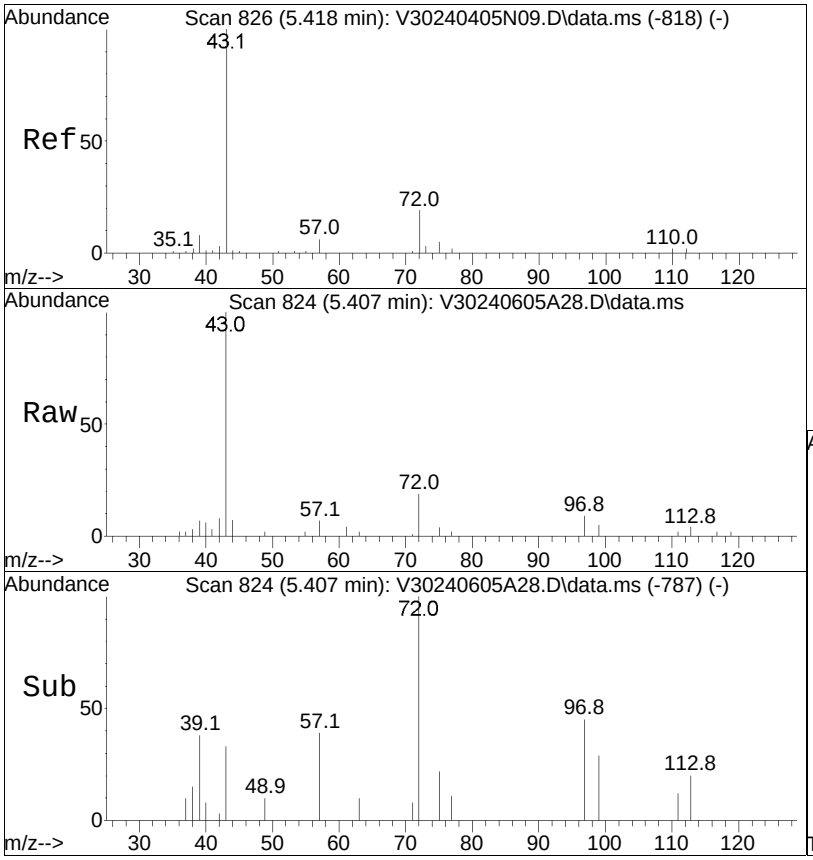


#40
1,1,1-Trichloroethane
Concen: 11.71 ug/L
RT: 5.329 min Scan# 809
Delta R.T. -0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 97 Resp: 140166

Ion	Ratio	Lower	Upper
97	100		
99	63.5	40.6	84.4
61	48.8	35.0	72.8
63	15.9	11.1	23.0

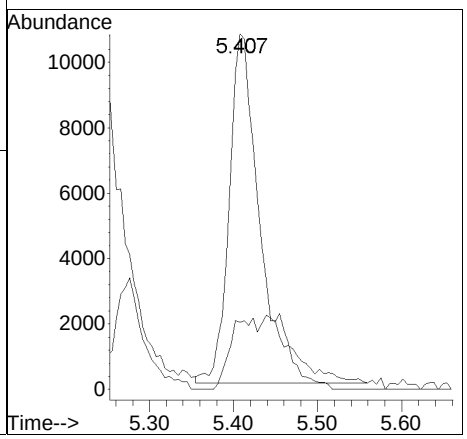


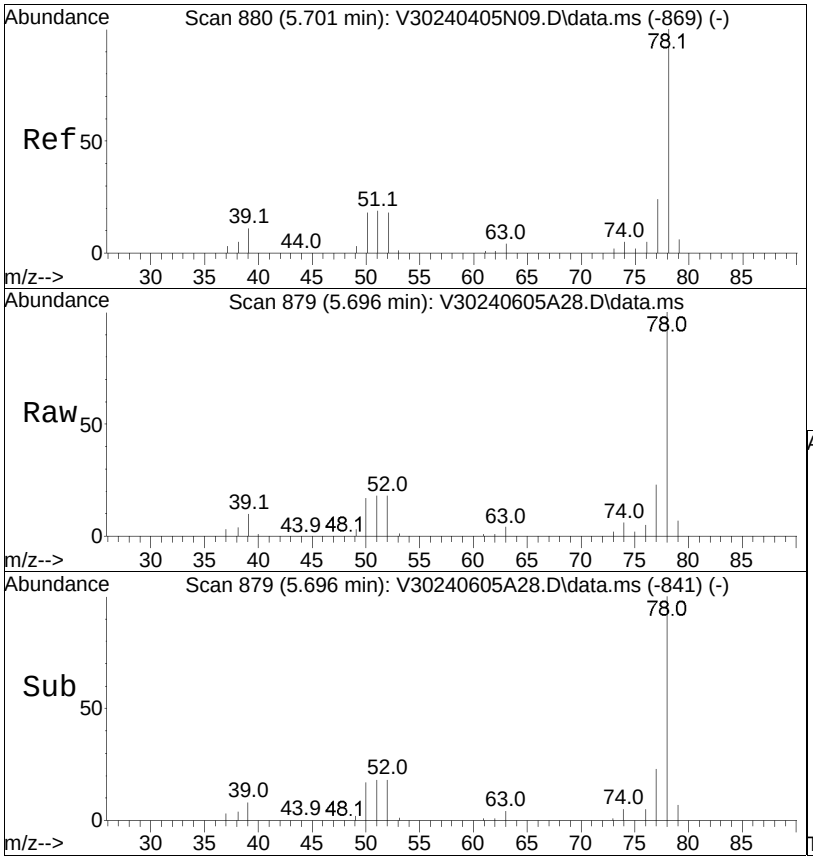


#42
2-Butanone
Concen: 12.27 ug/L
RT: 5.407 min Scan# 824
Delta R.T. -0.006 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 43 Resp: 27740

Ion	Ratio	Lower	Upper
43	100		
72	17.2	18.2	27.4#

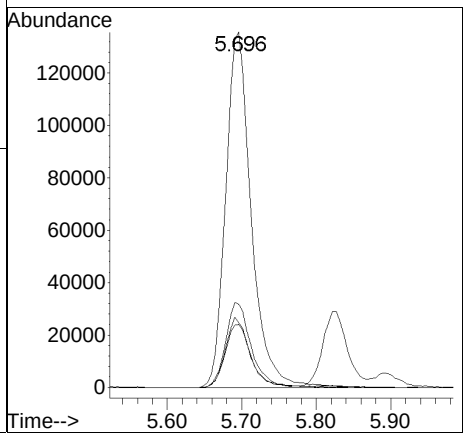


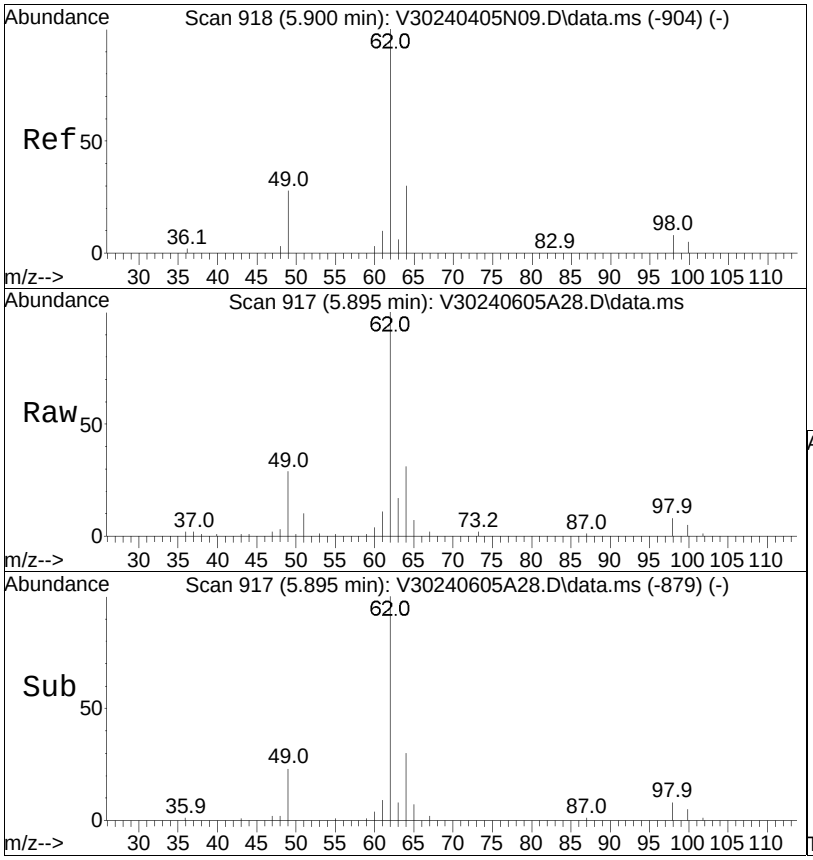


#45
Benzene
Concen: 11.18 ug/L
RT: 5.696 min Scan# 879
Delta R.T. -0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 78 Resp: 323704

Ion	Ratio	Lower	Upper
78	100		
77	23.8	15.6	32.4
51	18.8	12.9	26.7
52	17.7	12.4	25.7

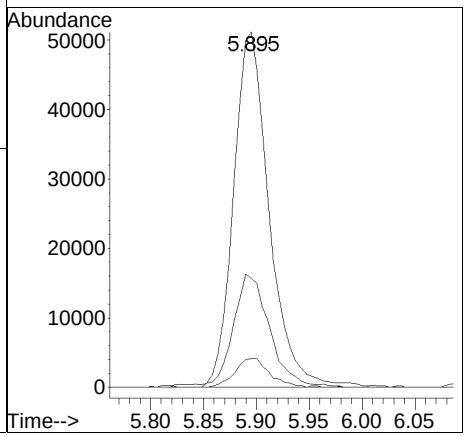


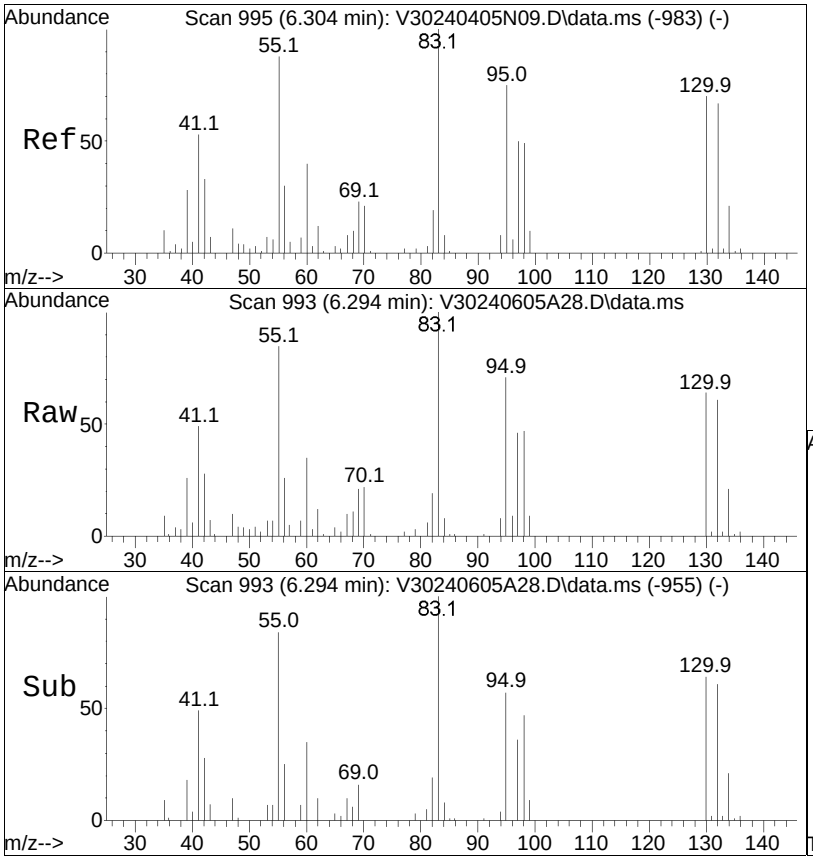


#48
1,2-Dichloroethane
Concen: 11.92 ug/L
RT: 5.895 min Scan# 917
Delta R.T. 0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 62 Resp: 120003

Ion	Ratio	Lower	Upper
62	100		
64	33.3	25.5	38.3
98	8.0	5.5	8.3

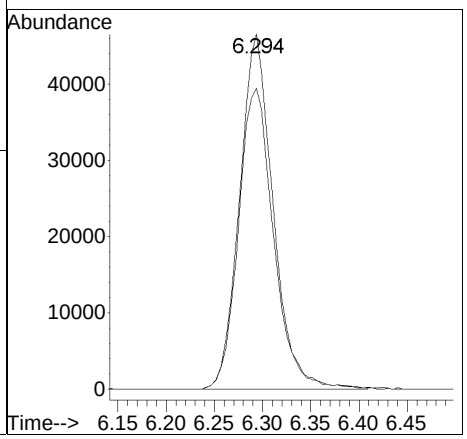


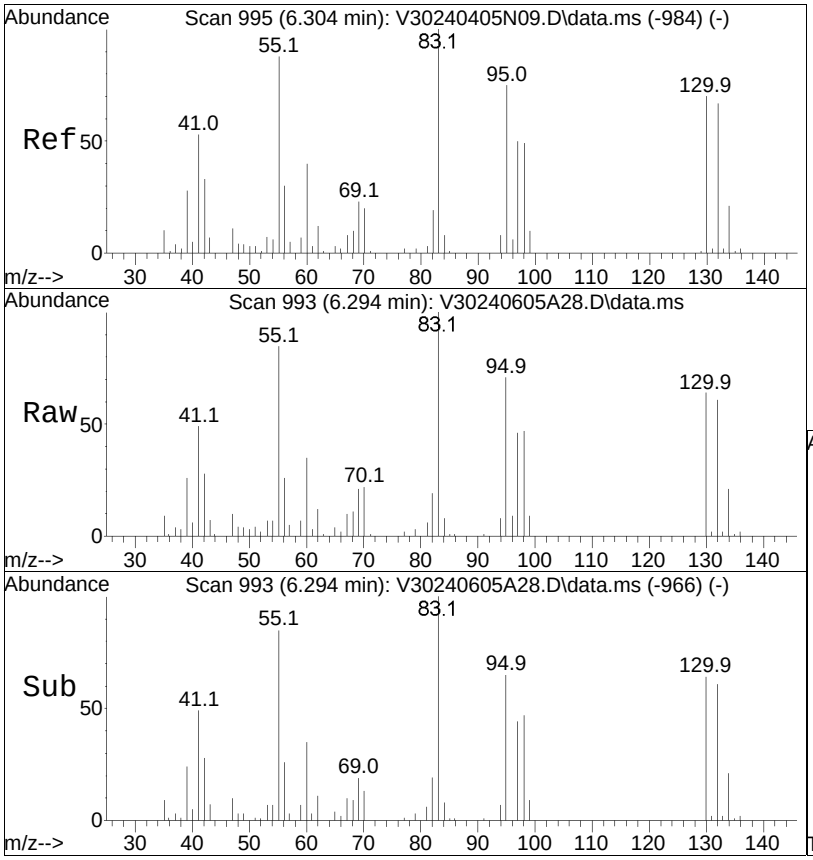


#51
Methyl cyclohexane
Concen: 9.52 ug/L
RT: 6.294 min Scan# 993
Delta R.T. 0.001 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 83 Resp: 113115

Ion	Ratio	Lower	Upper
83	100		
55	89.0	74.6	112.0

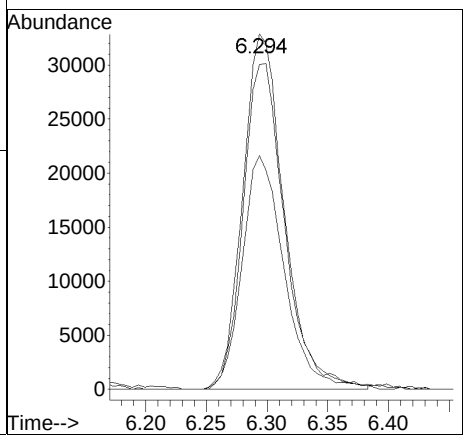


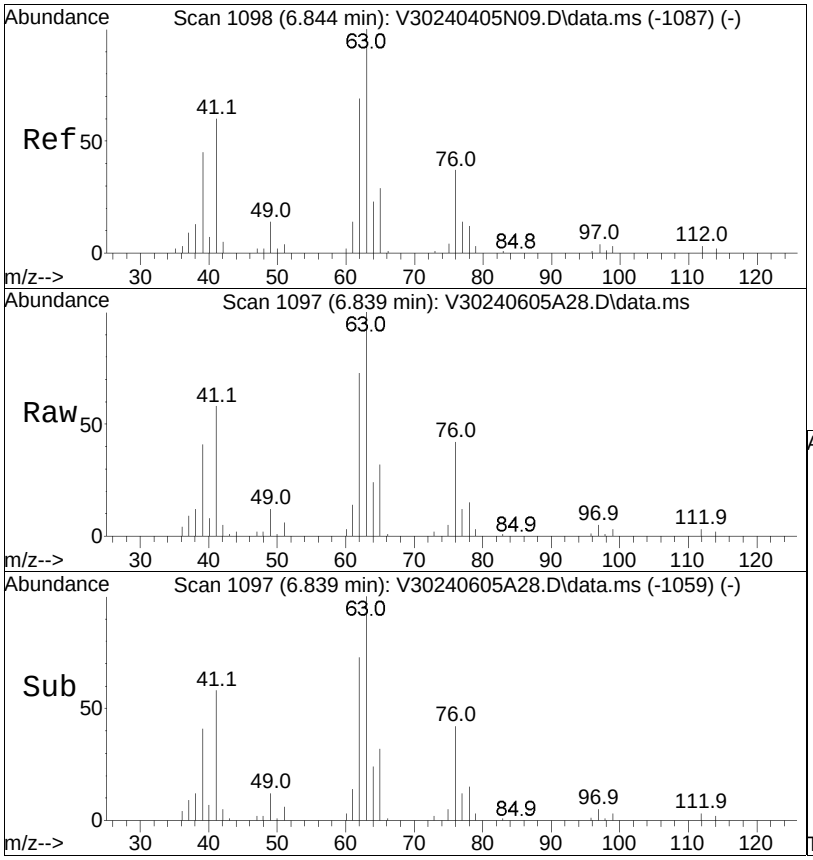


#52
Trichloroethene
Concen: 9.83 ug/L
RT: 6.294 min Scan# 993
Delta R.T. 0.001 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 95 Resp: 78437

Ion	Ratio	Lower	Upper
95	100		
97	66.7	53.8	80.6
130	92.2	71.4	107.0

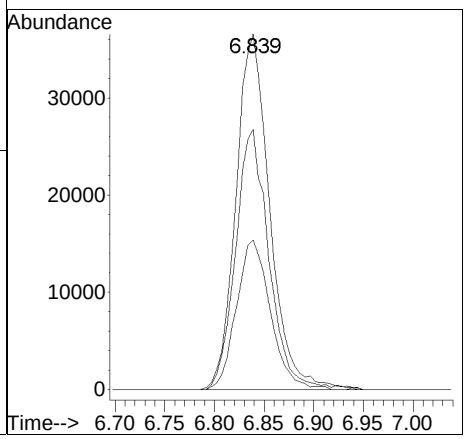


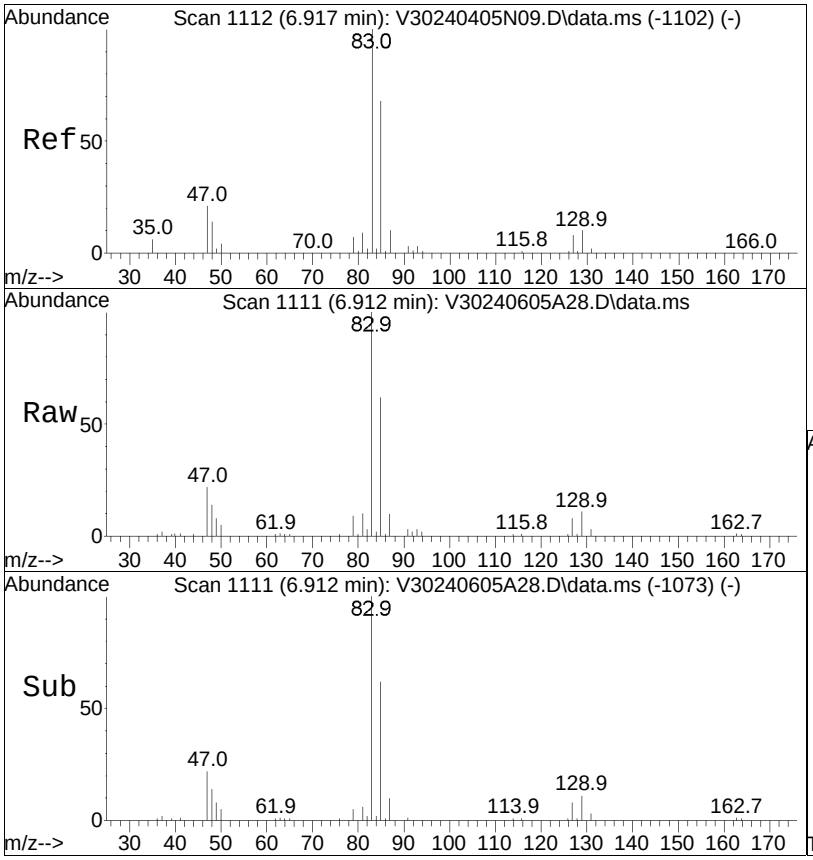


#55
1,2-Dichloropropane
Concen: 11.32 ug/L
RT: 6.839 min Scan# 1097
Delta R.T. -0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 63 Resp: 86689

Ion	Ratio	Lower	Upper
63	100		
62	71.7	58.1	87.1
76	42.2	30.4	45.6

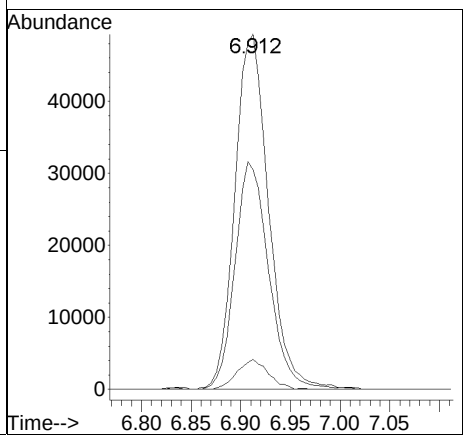


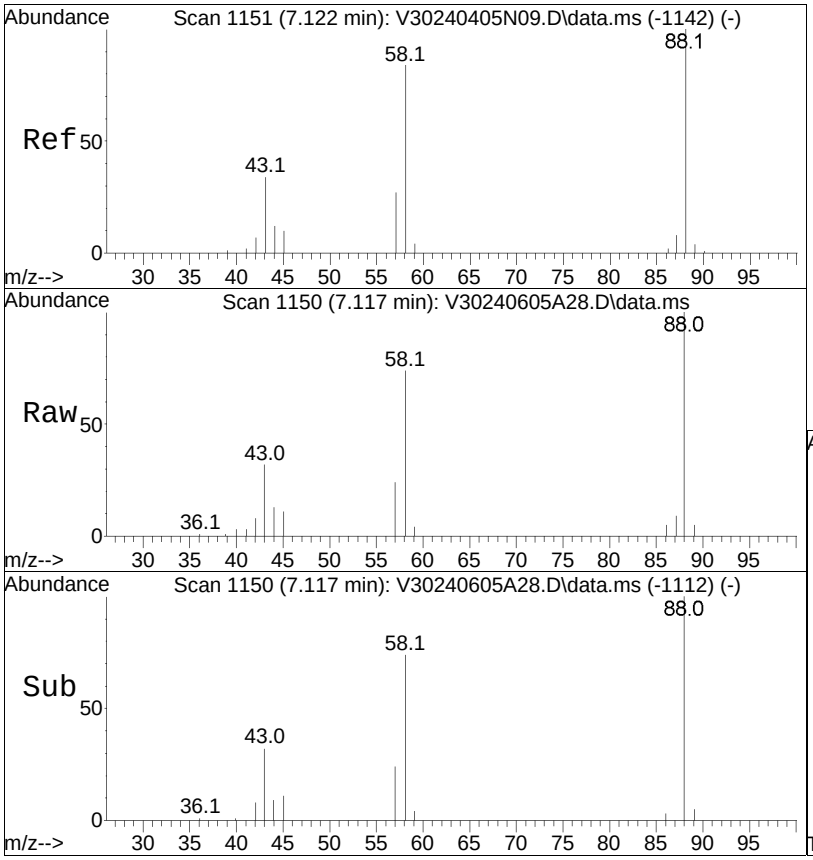


#58
Bromodichloromethane
Concen: 11.06 ug/L
RT: 6.912 min Scan# 1111
Delta R.T. 0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 83 Resp: 116951

Ion	Ratio	Lower	Upper
83	100		
85	64.1	50.2	75.2
127	7.9	5.2	7.8#

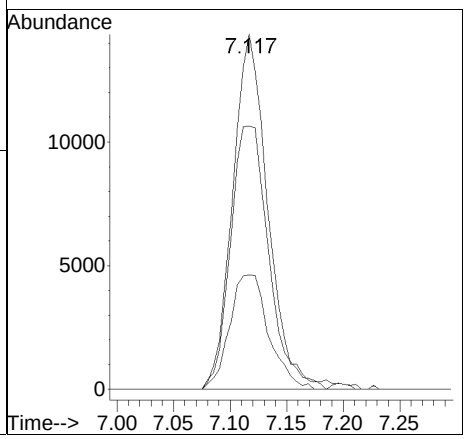


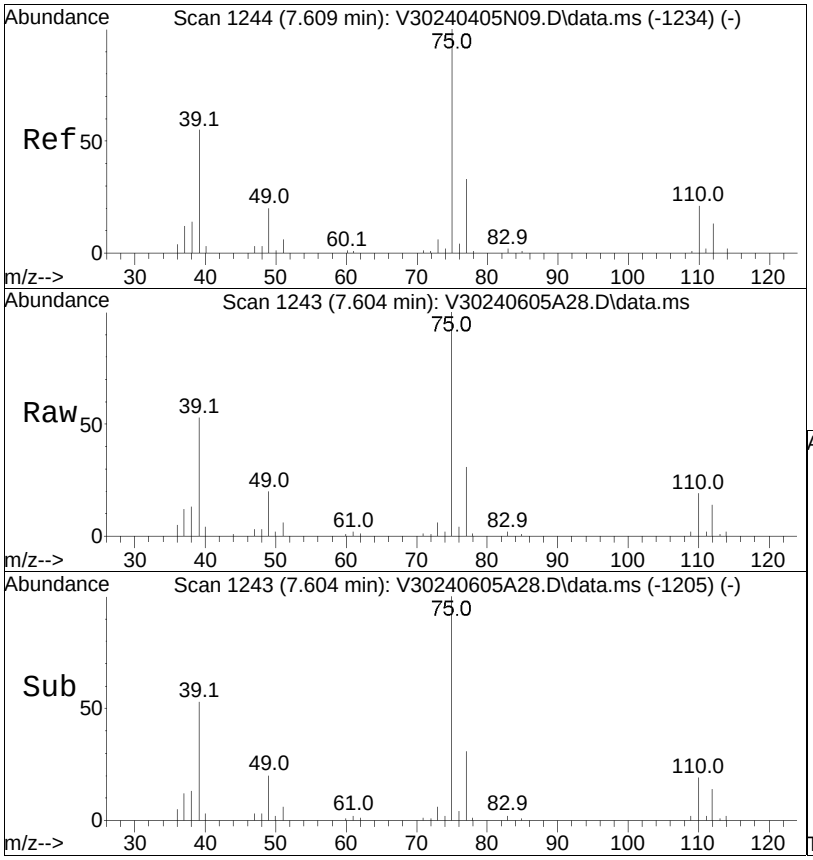


#61
1,4-Dioxane
Concen: 486.36 ug/L
RT: 7.117 min Scan# 1150
Delta R.T. -0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 88 Resp: 31458

Ion	Ratio	Lower	Upper
88	100		
58	79.8	59.9	89.9
43	35.6	30.8	46.2

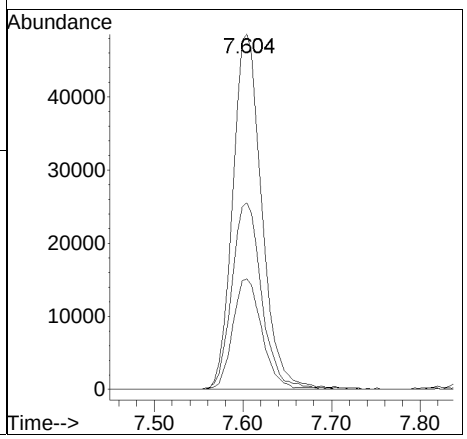


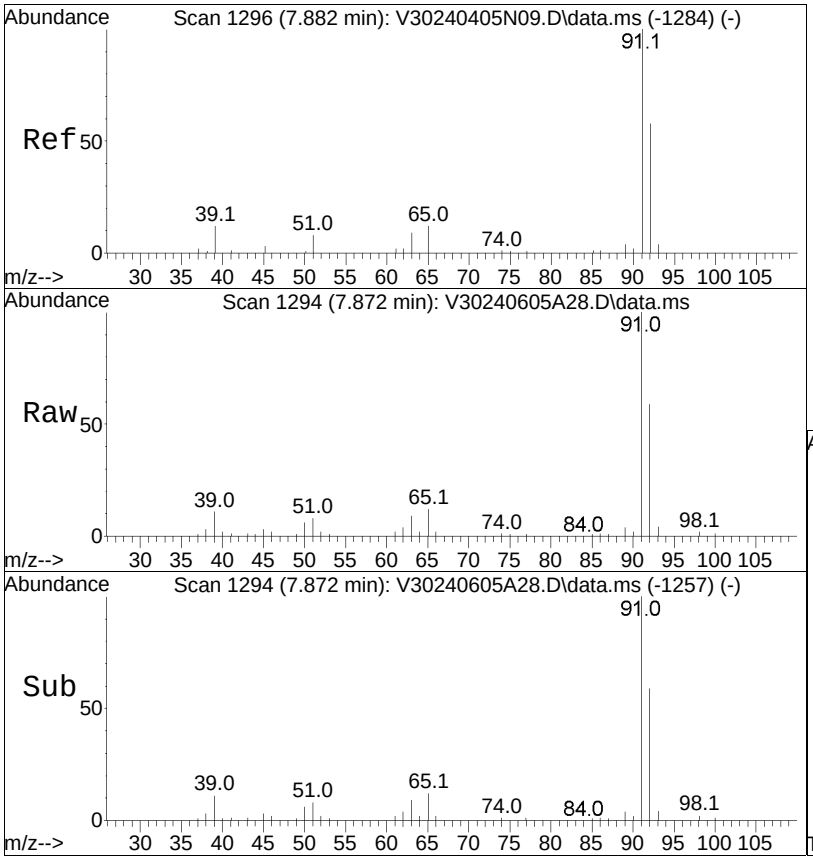


#62
cis-1,3-Dichloropropene
Concen: 9.36 ug/L
RT: 7.604 min Scan# 1243
Delta R.T. 0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 75 Resp: 110956

Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.4	38.2
39	54.0	54.6	82.0#

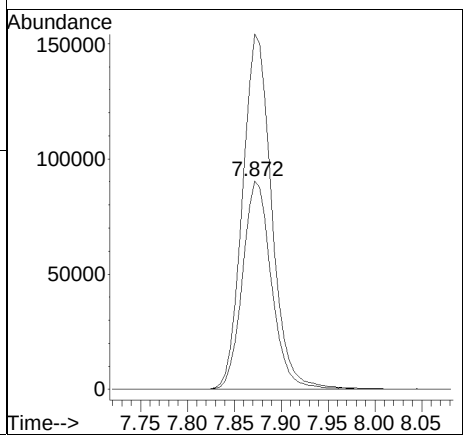


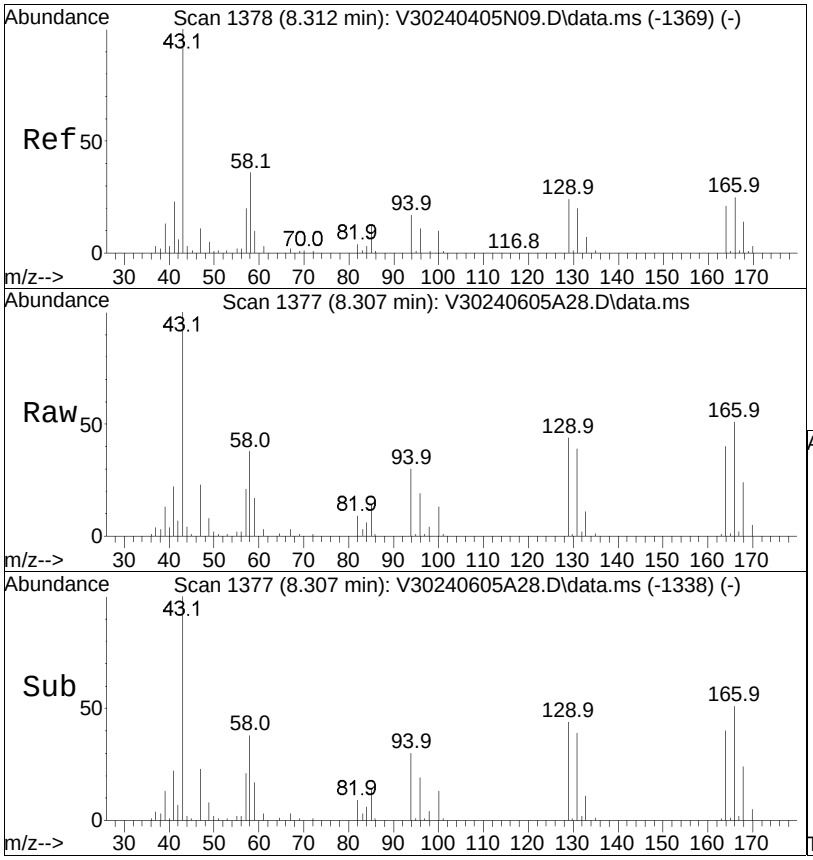


#65
Toluene
Concen: 10.70 ug/L
RT: 7.872 min Scan# 1294
Delta R.T. -0.005 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 92 Resp: 195240

Ion	Ratio	Lower	Upper
92	100		
91	171.2	137.5	206.3

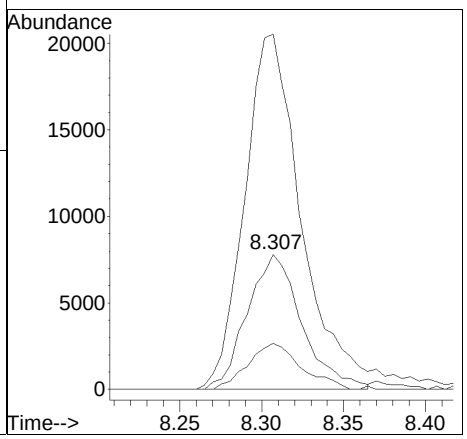


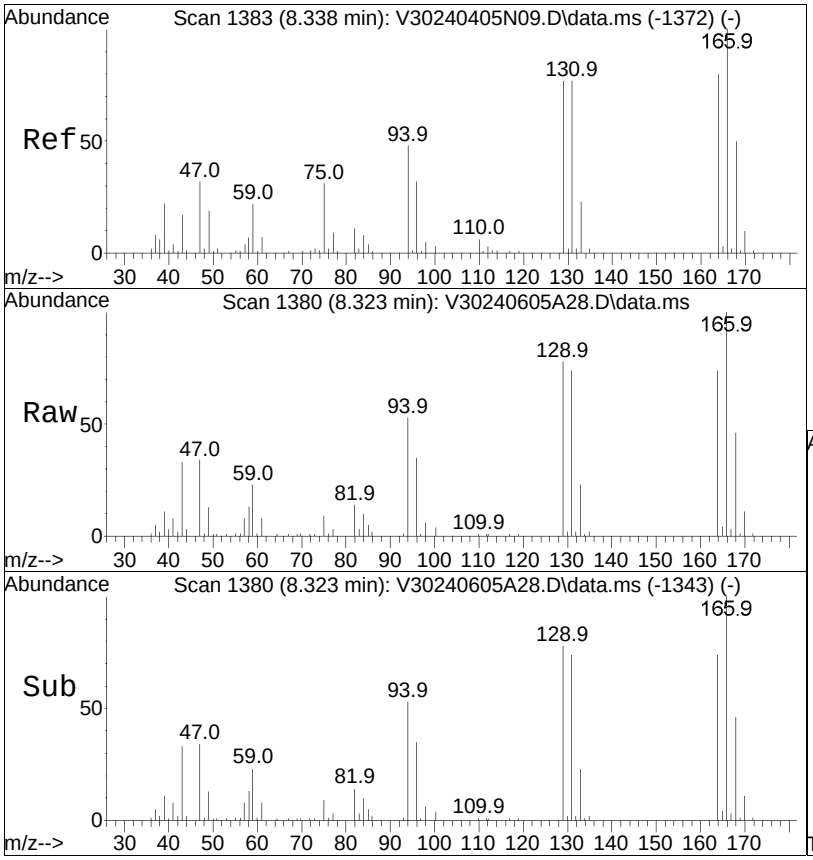


#66
4-Methyl-2-pentanone
Concen: 10.02 ug/L
RT: 8.307 min Scan# 1377
Delta R.T. 0.005 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 58 Resp: 18077

Ion	Ratio	Lower	Upper
58	100		
100	33.4	22.6	34.0
43	284.2	234.6	351.8

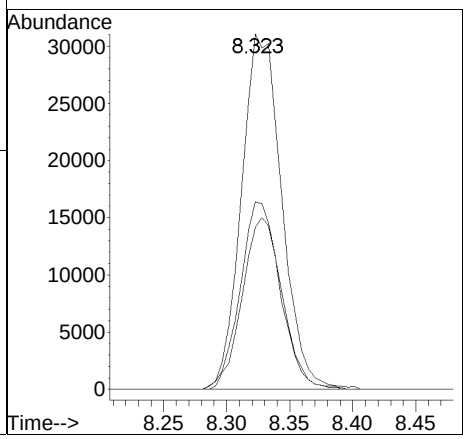


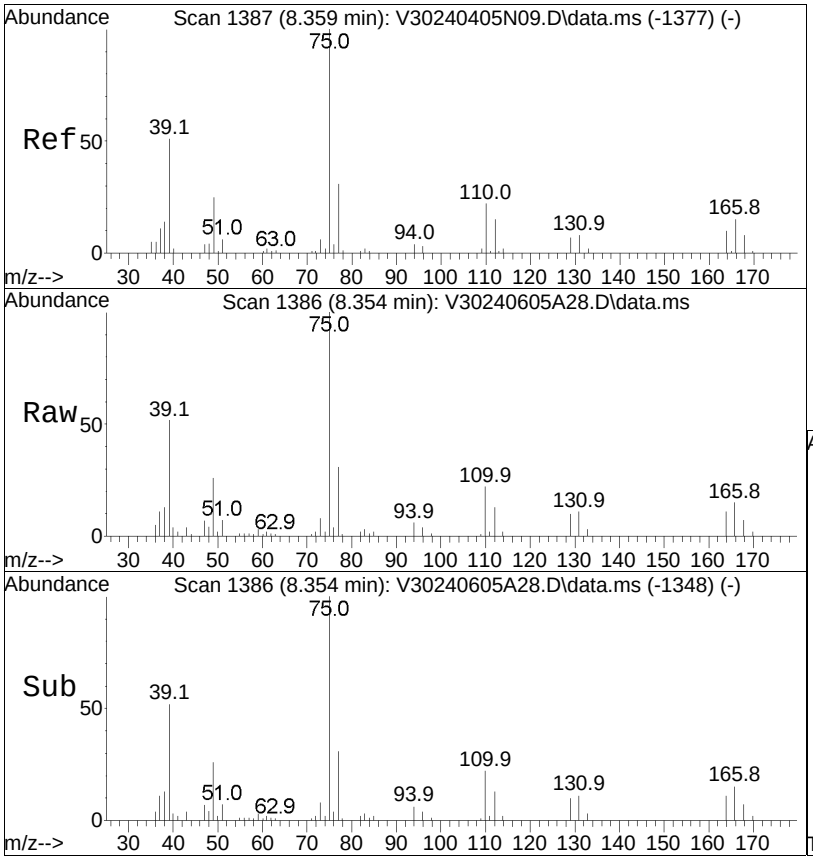


#67
Tetrachloroethene
Concen: 9.25 ug/L
RT: 8.323 min Scan# 1380
Delta R.T. -0.005 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion:166 Resp: 69196

Ion	Ratio	Lower	Upper
166	100		
168	47.8	38.6	58.0
94	52.2	42.6	63.8

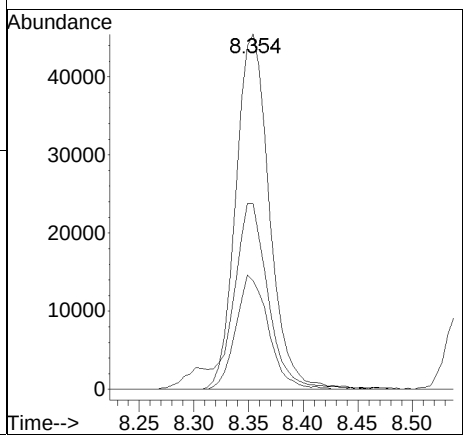


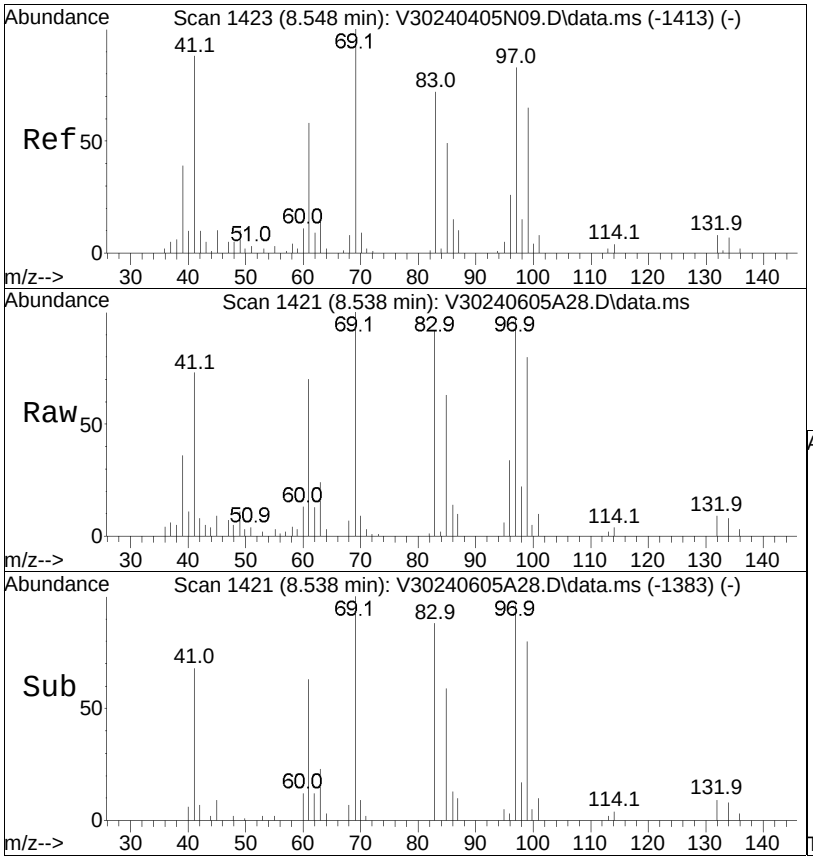


#69
trans-1,3-Dichloropropene
Concen: 9.84 ug/L
RT: 8.354 min Scan# 1386
Delta R.T. 0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 75 Resp: 97511

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.6	38.4
39	57.4	60.2	90.4#

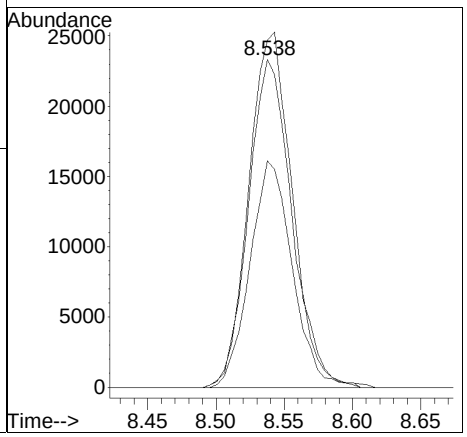


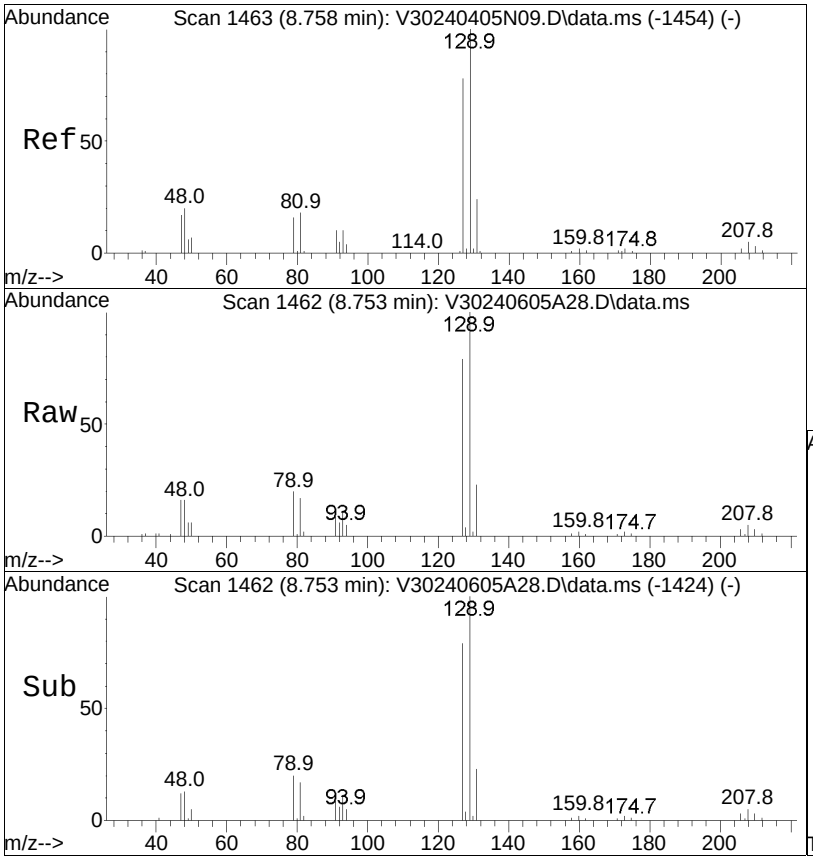


#72
1,1,2-Trichloroethane
Concen: 10.41 ug/L
RT: 8.538 min Scan# 1421
Delta R.T. -0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 83 Resp: 51260

Ion	Ratio	Lower	Upper
83	100		
97	109.9	87.7	131.5
85	67.7	53.1	79.7

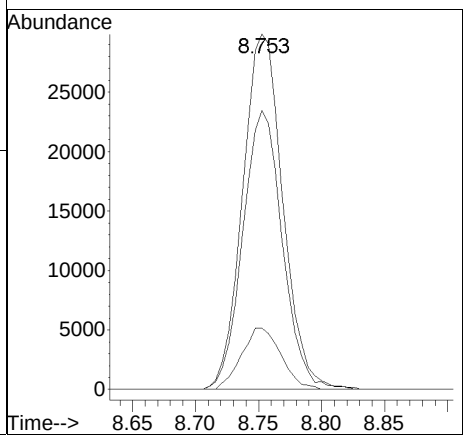


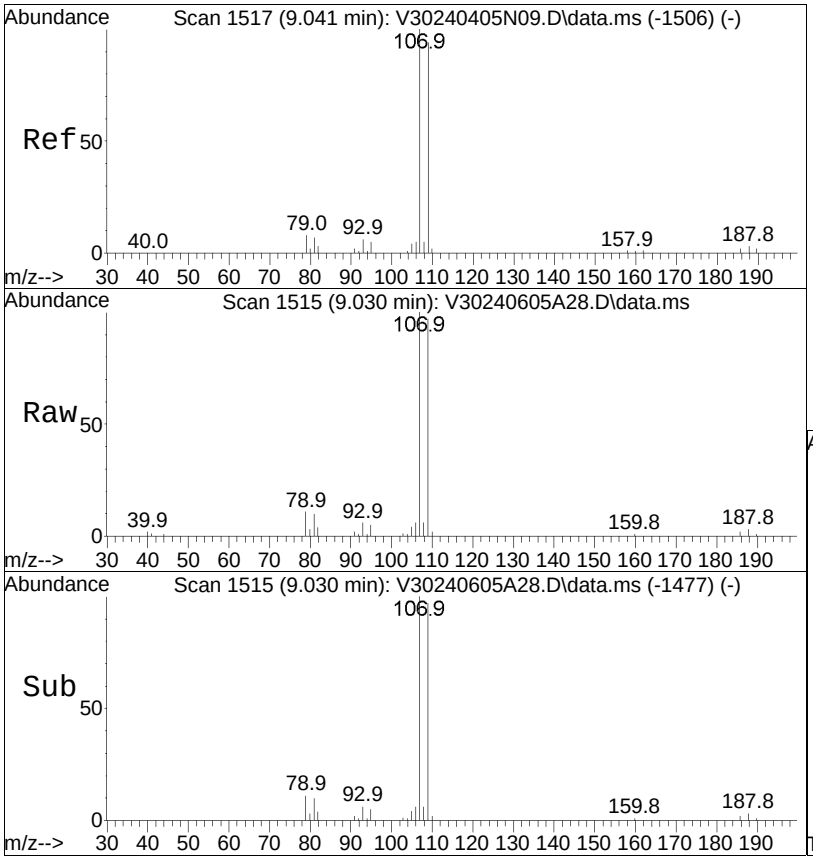


#73
Chlorodibromomethane
Concen: 9.90 ug/L
RT: 8.753 min Scan# 1462
Delta R.T. 0.001 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion:129 Resp: 66362

Ion	Ratio	Lower	Upper
129	100		
81	17.0	14.6	22.0
127	77.3	62.6	93.8

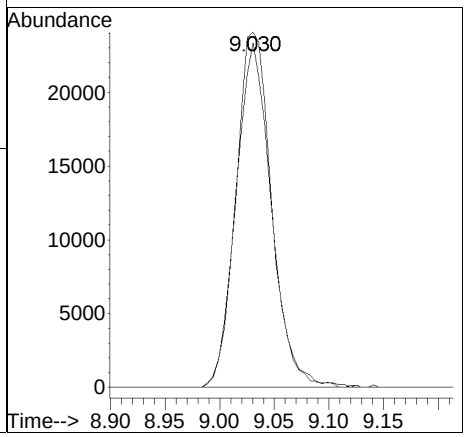


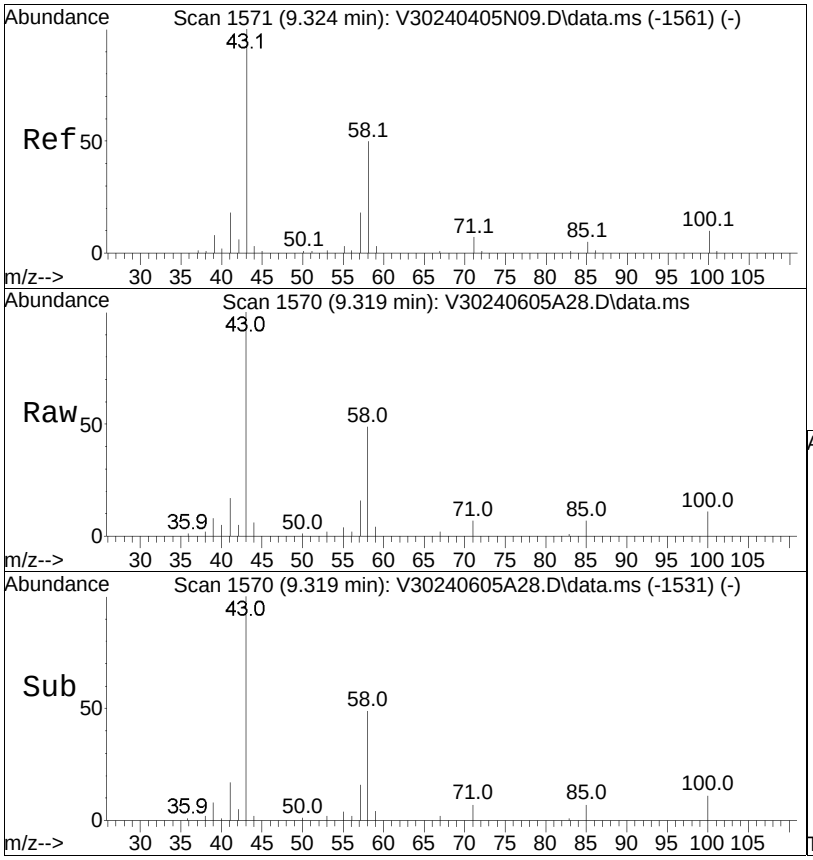


#75
1,2-Dibromoethane
Concen: 9.65 ug/L
RT: 9.030 min Scan# 1515
Delta R.T. 0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion:107 Resp: 55354

Ion	Ratio	Lower	Upper
107	100		
109	94.4	75.0	112.4

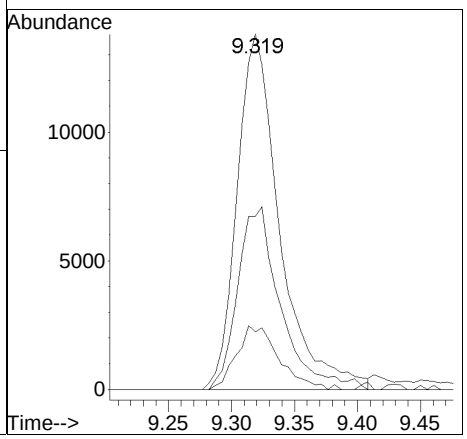


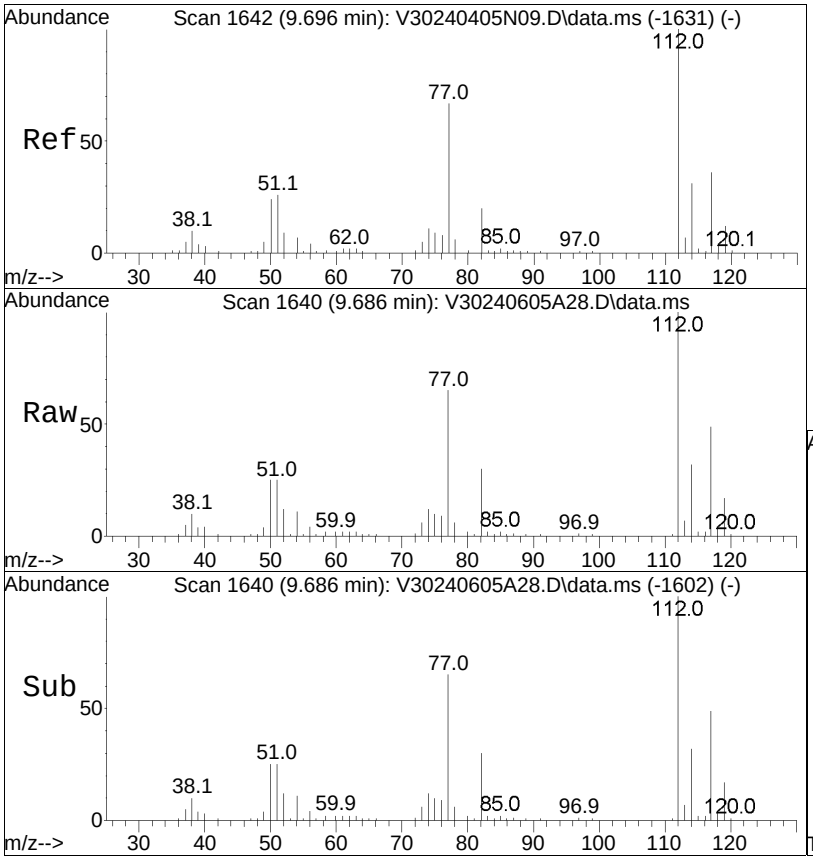


#77
2-Hexanone
Concen: 10.50 ug/L
RT: 9.319 min Scan# 1570
Delta R.T. 0.005 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 43 Resp: 32471

Ion	Ratio	Lower	Upper
43	100		
58	52.0	38.6	58.0
57	17.9	14.1	21.1

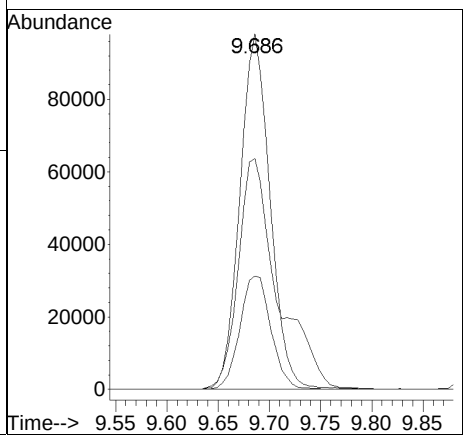


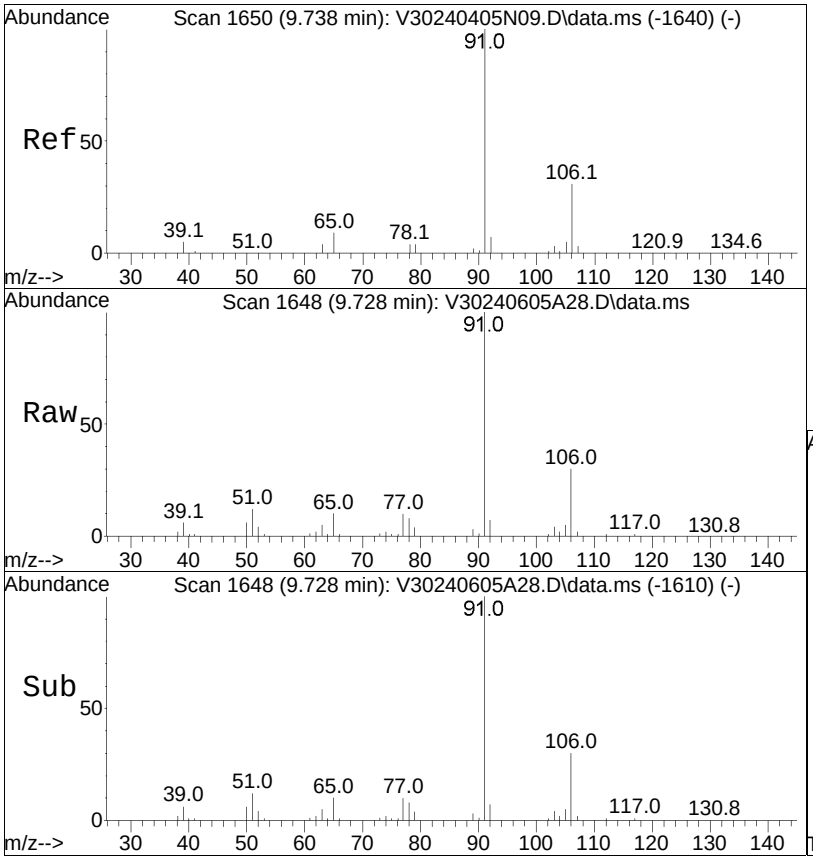


#78
Chlorobenzene
Concen: 10.15 ug/L
RT: 9.686 min Scan# 1640
Delta R.T. -0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion:112 Resp: 201229

Ion	Ratio	Lower	Upper
112	100		
77	84.9	54.8	82.2#
114	32.8	25.4	38.0

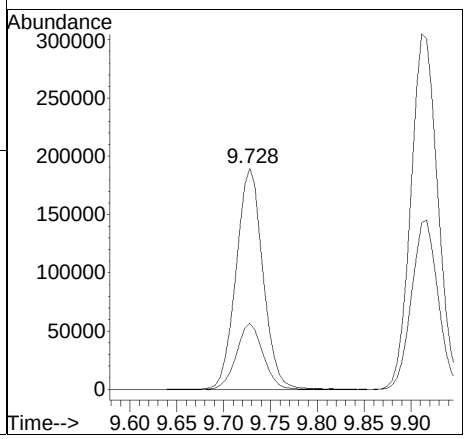


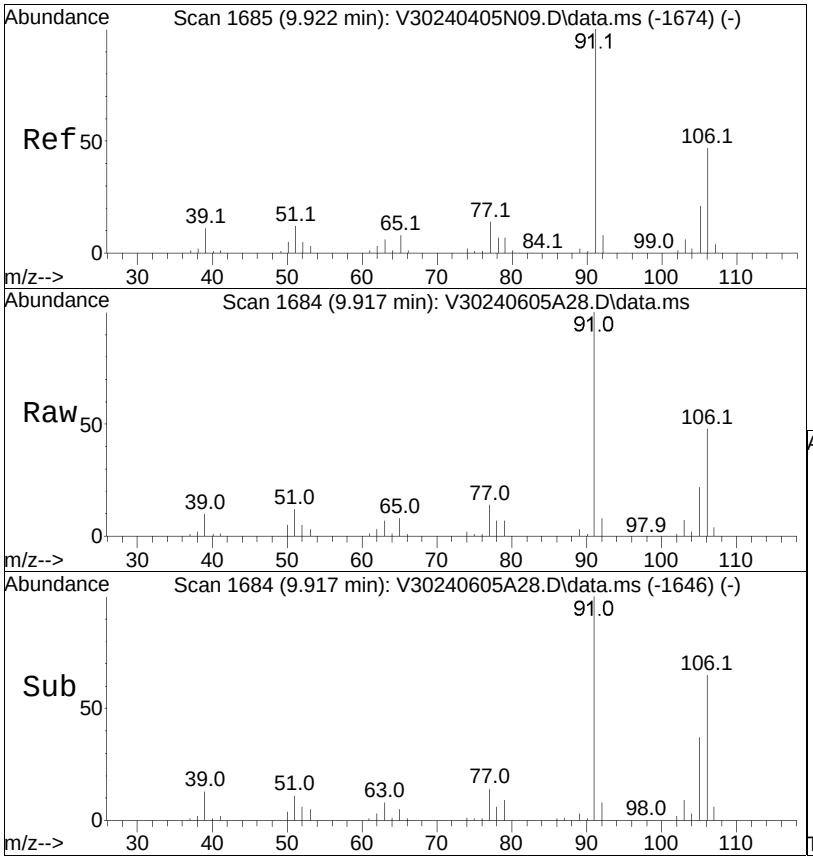


#79
Ethylbenzene
Concen: 11.08 ug/L
RT: 9.728 min Scan# 1648
Delta R.T. -0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 91 Resp: 377745

Ion	Ratio	Lower	Upper
91	100		
106	29.6	23.4	35.2

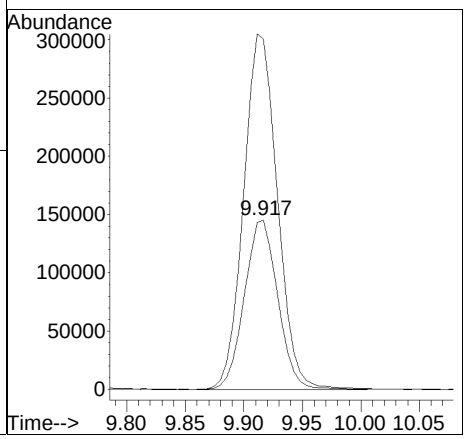


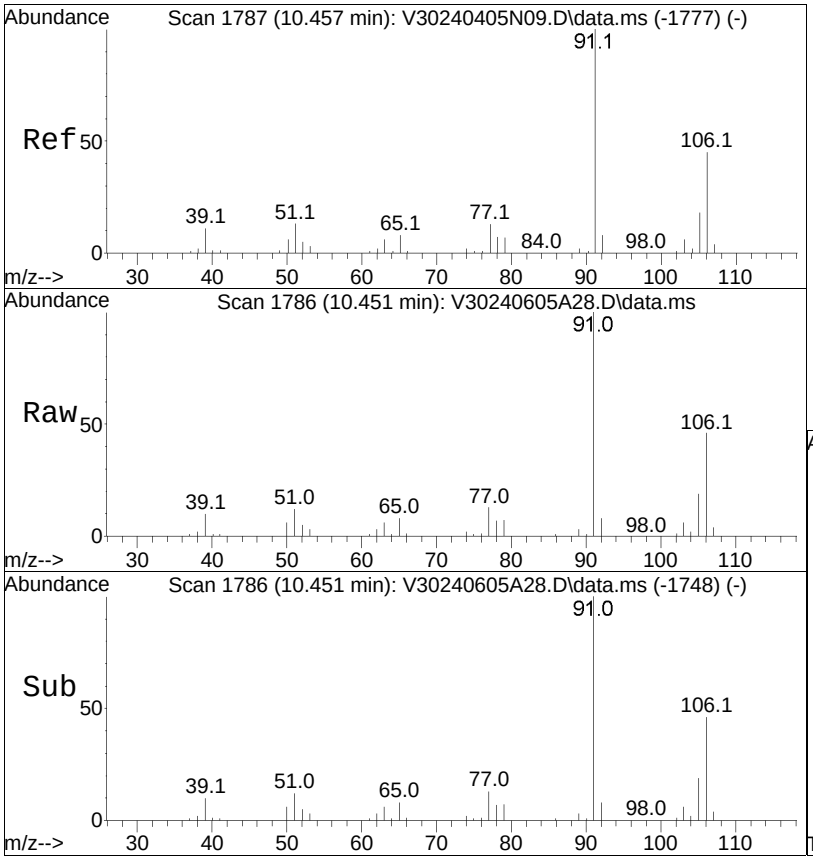


#81
p/m Xylene
Concen: 21.02 ug/L
RT: 9.917 min Scan# 1684
Delta R.T. 0.001 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion:106 Resp: 288209

Ion	Ratio	Lower	Upper
106	100		
91	212.5	171.4	257.2

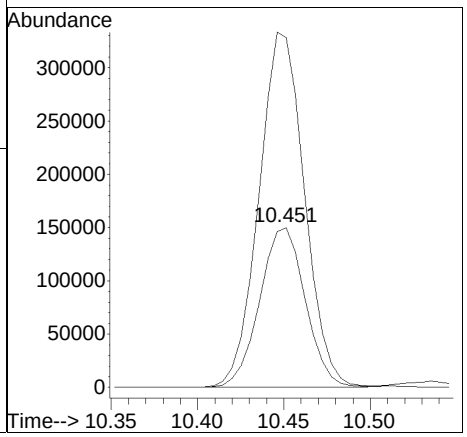


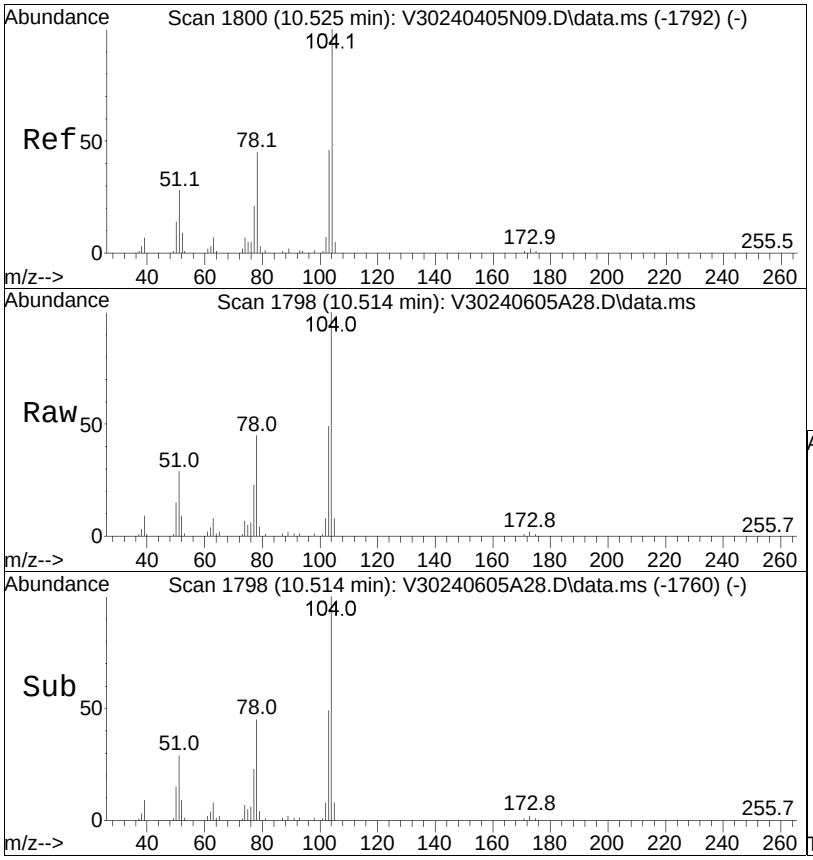


#82
o Xylene
Concen: 20.65 ug/L
RT: 10.451 min Scan# 1786
Delta R.T. 0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion:106 Resp: 275596

Ion	Ratio	Lower	Upper
106	100		
91	222.1	179.2	268.8

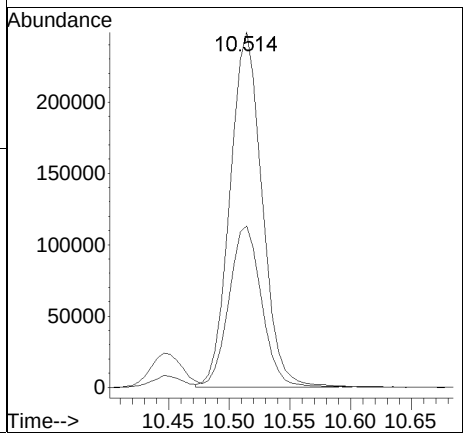


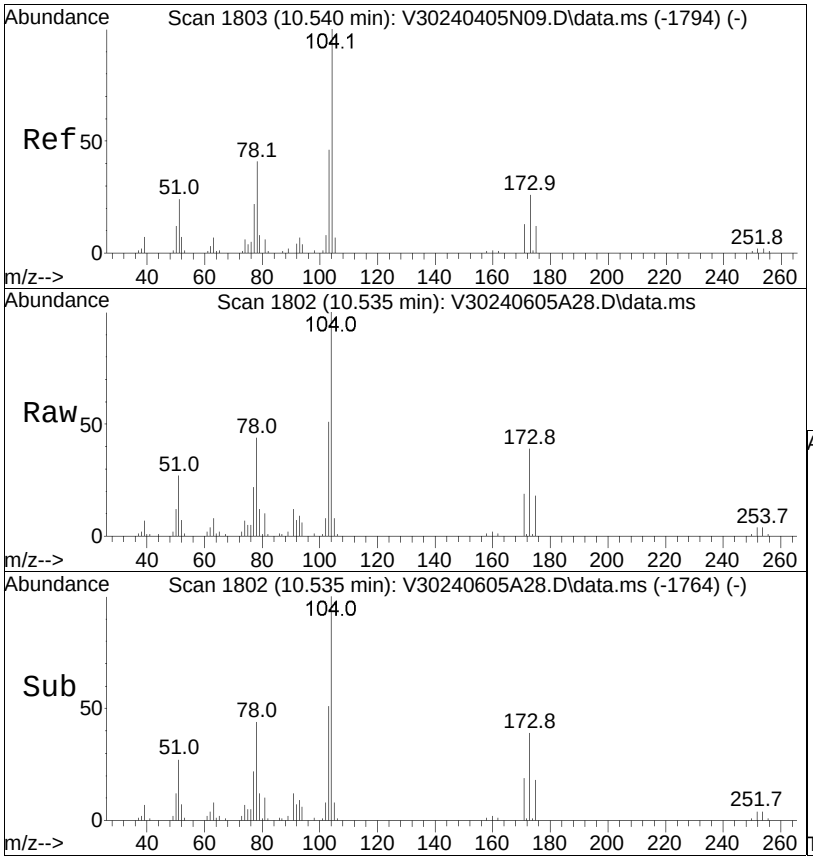


#83
Styrene
Concen: 20.83 ug/L
RT: 10.514 min Scan# 1798
Delta R.T. 0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion:104 Resp: 456744

Ion	Ratio	Lower	Upper
104	100		
78	46.3	38.1	57.1

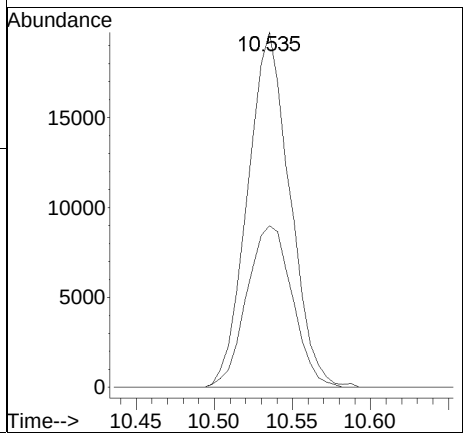


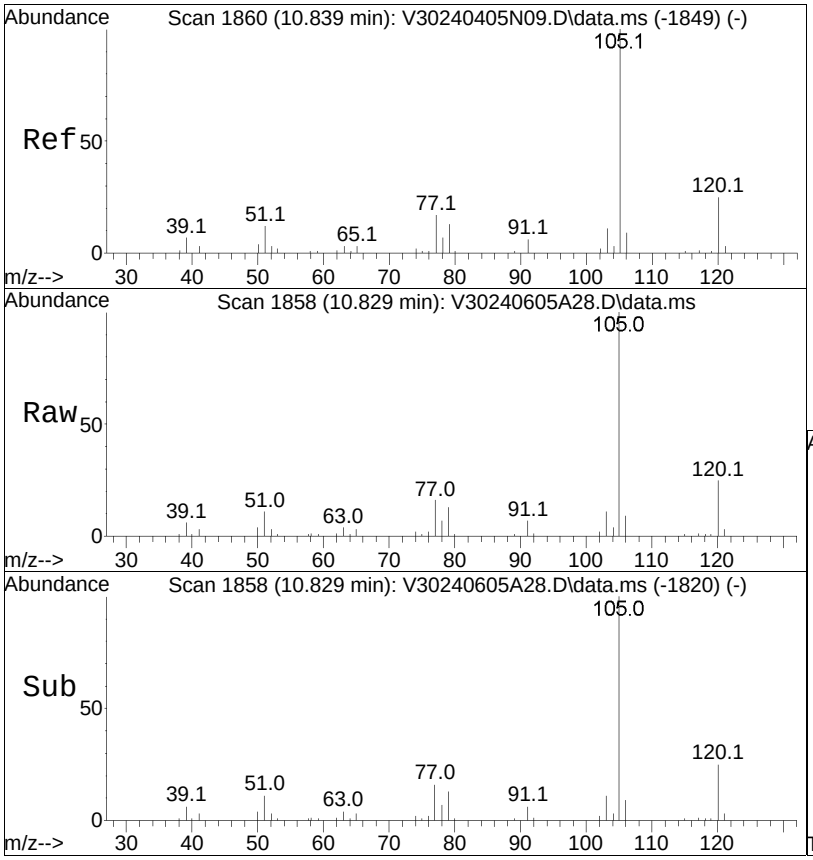


#85
Bromoform
Concen: 9.13 ug/L
RT: 10.535 min Scan# 1802
Delta R.T. 0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion:173 Resp: 37291

Ion	Ratio	Lower	Upper
173	100		
175	48.9	37.8	56.6

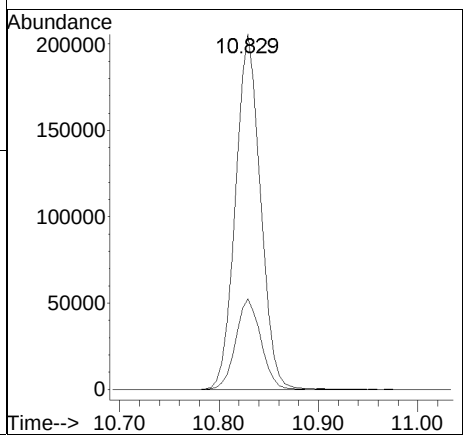


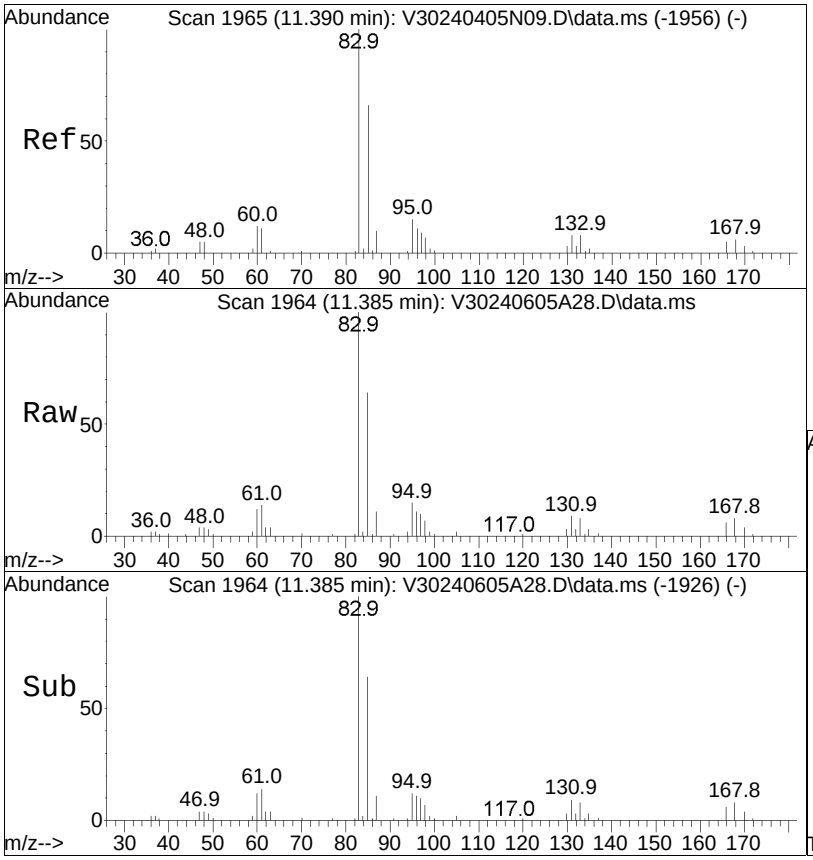


#87
Isopropylbenzene
Concen: 10.47 ug/L
RT: 10.829 min Scan# 1858
Delta R.T. -0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion:105 Resp: 358932

Ion	Ratio	Lower	Upper
105	100		
120	25.6	20.0	30.0

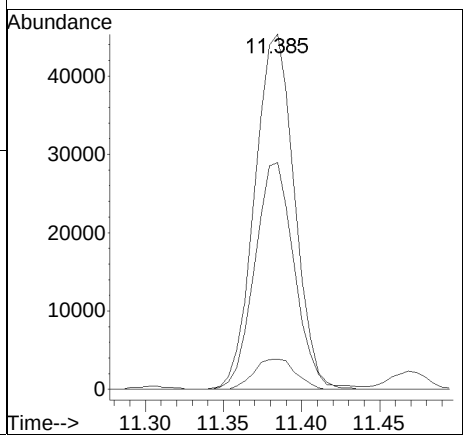


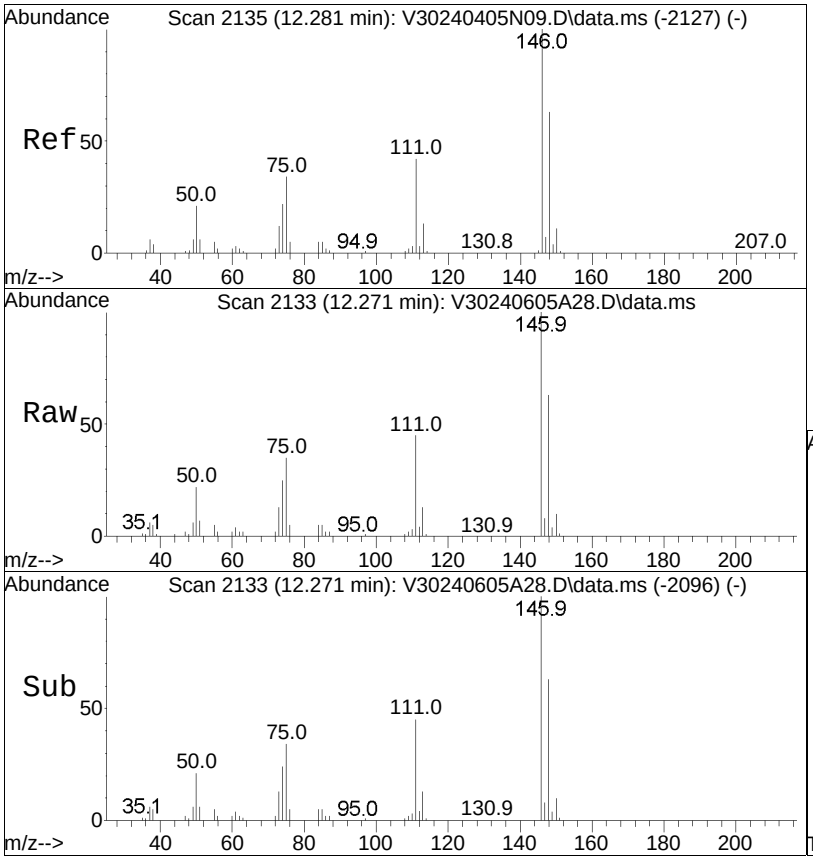


#92
1,1,2,2-Tetrachloroethane
Concen: 11.38 ug/L
RT: 11.385 min Scan# 1964
Delta R.T. -0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion: 83 Resp: 80113

Ion	Ratio	Lower	Upper
83	100		
131	9.0	6.6	10.0
85	63.9	51.8	77.6

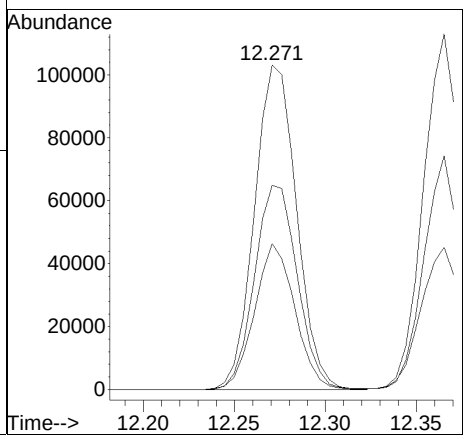


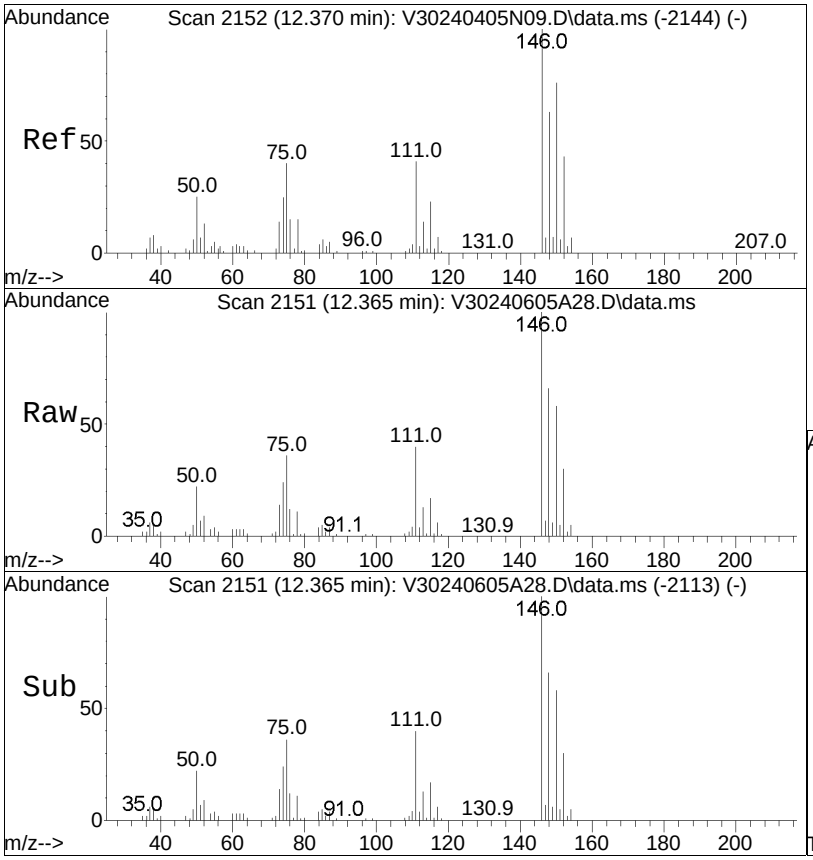


#105
1,3-Dichlorobenzene
Concen: 9.72 ug/L
RT: 12.271 min Scan# 2133
Delta R.T. -0.005 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion:146 Resp: 166006

Ion	Ratio	Lower	Upper
146	100		
111	42.8	28.0	58.1
148	63.7	40.8	84.6

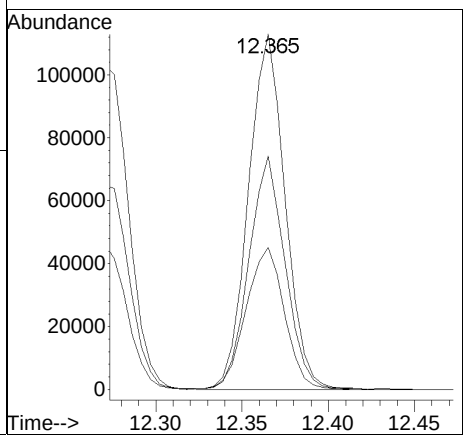


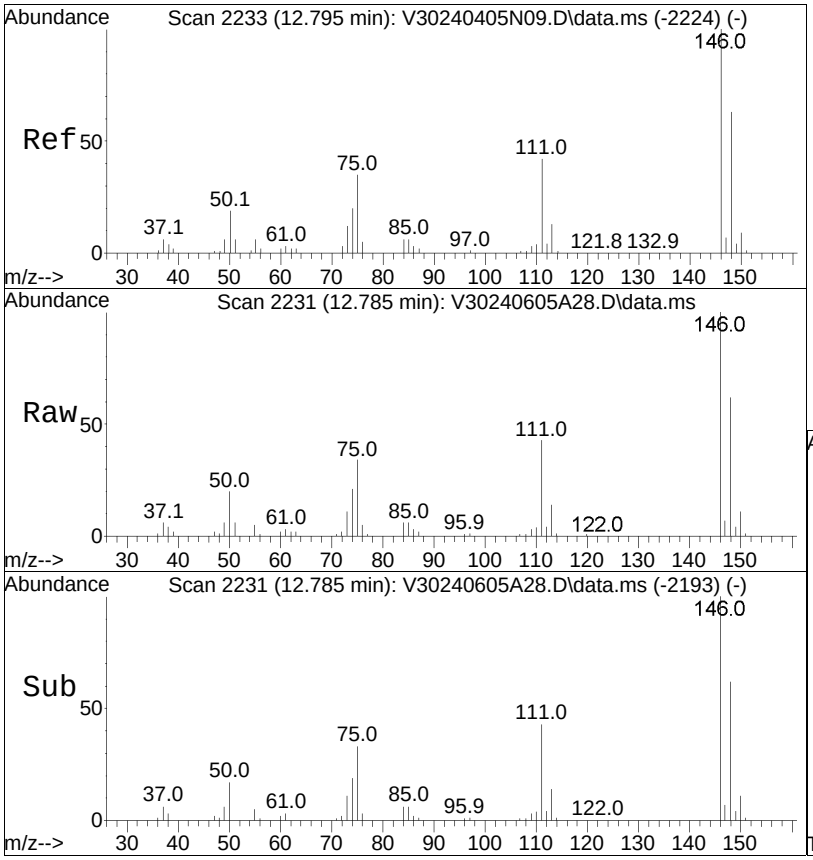


#106
1,4-Dichlorobenzene
Concen: 9.59 ug/L
RT: 12.365 min Scan# 2151
Delta R.T. 0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion:146 Resp: 166930

Ion	Ratio	Lower	Upper
146	100		
111	42.0	33.7	50.5
148	65.1	50.8	76.2

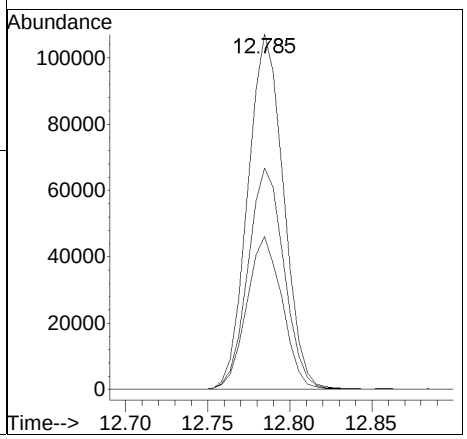


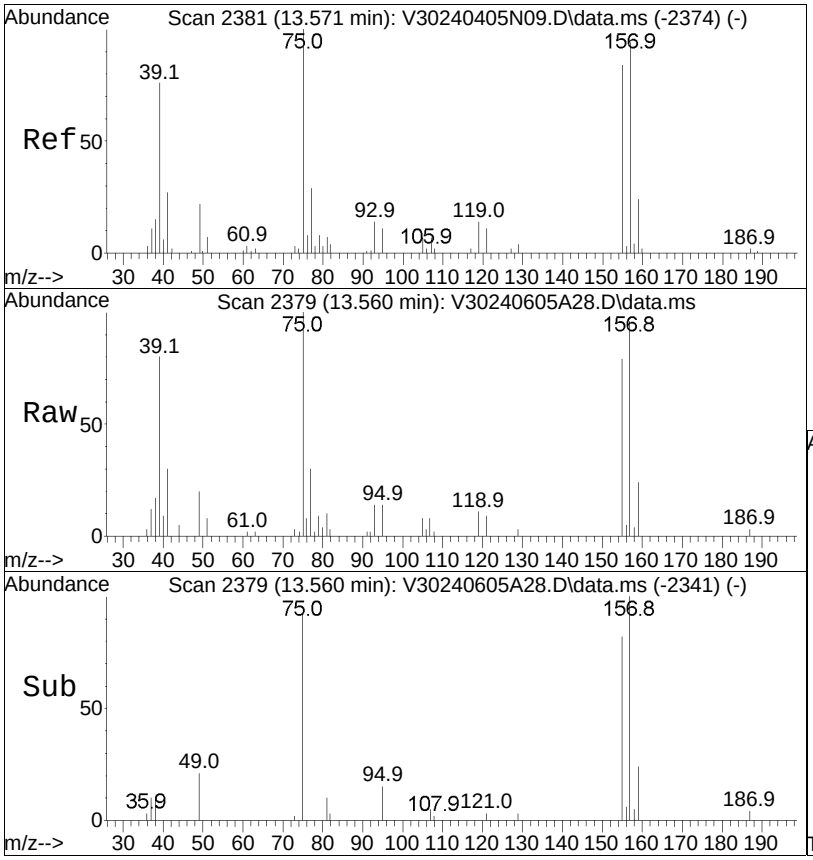


#109
1,2-Dichlorobenzene
Concen: 9.87 ug/L
RT: 12.785 min Scan# 2231
Delta R.T. 0.001 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion:146 Resp: 162764

Ion	Ratio	Lower	Upper
146	100		
111	42.8	29.5	61.3
148	62.8	41.3	85.9

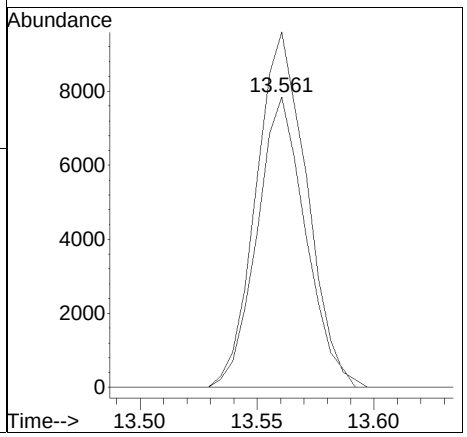


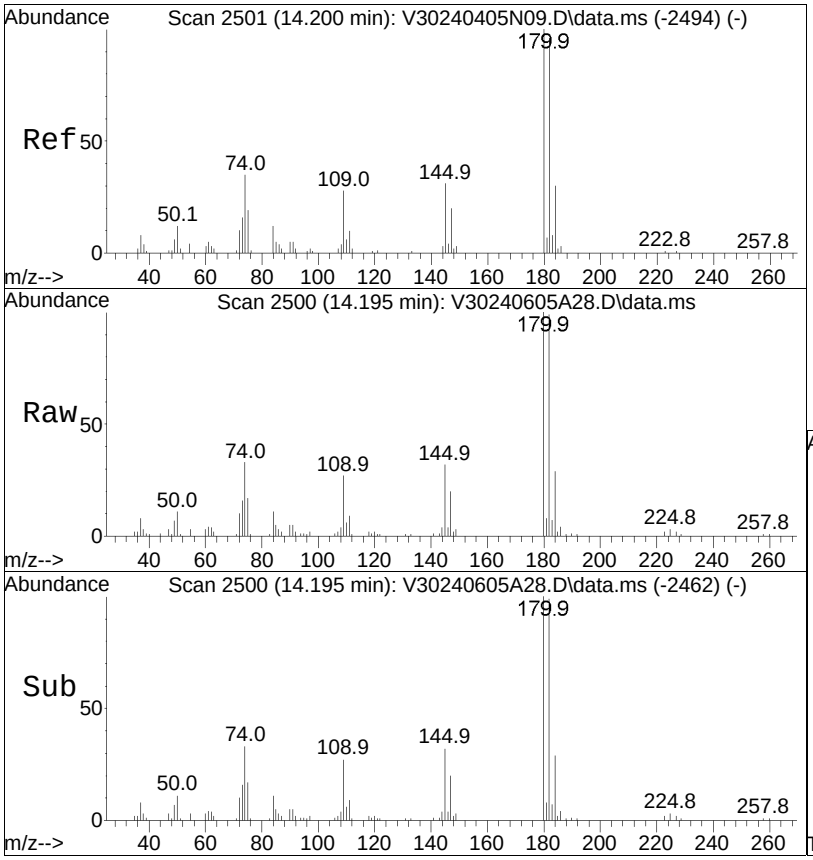


#111
1,2-Dibromo-3-chloropropane
Concen: 9.26 ug/L
RT: 13.560 min Scan# 2379
Delta R.T. 0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion:155 Resp: 11293

Ion	Ratio	Lower	Upper
155	100		
157	127.7	105.1	157.7

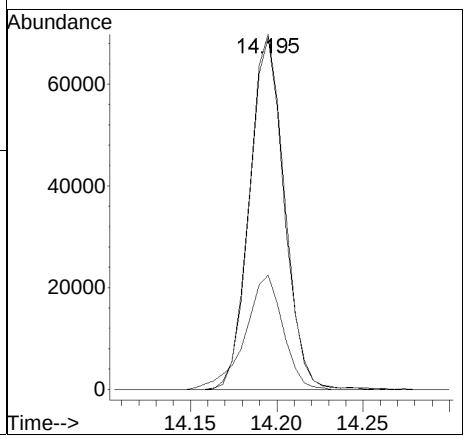


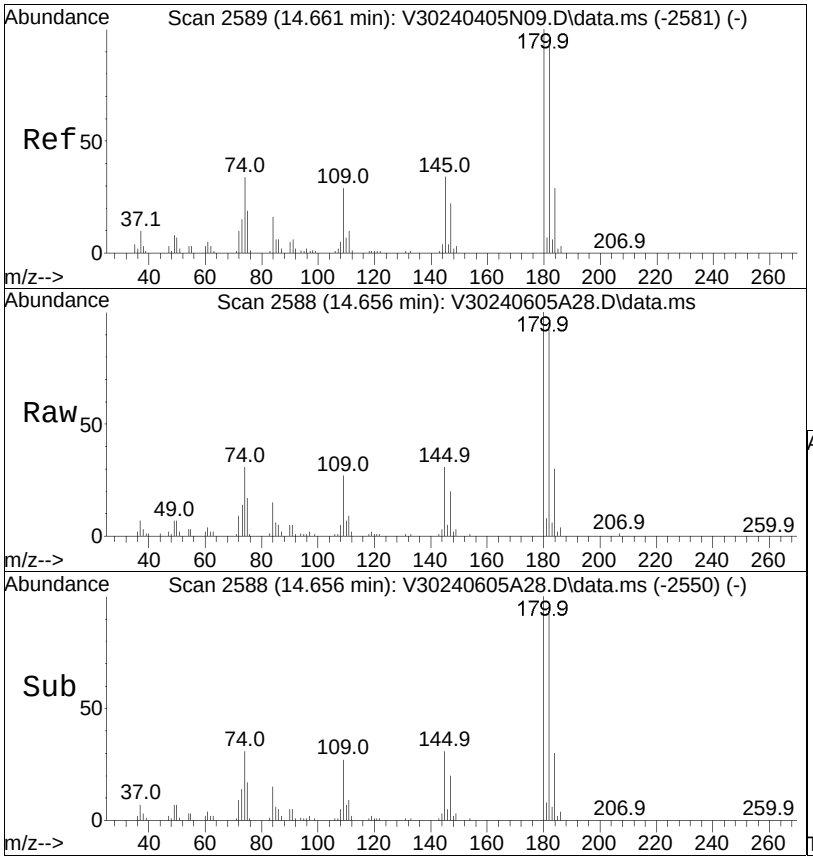


#114
1,2,4-Trichlorobenzene
Concen: 8.88 ug/L
RT: 14.195 min Scan# 2500
Delta R.T. -0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion:180 Resp: 98609

Ion	Ratio	Lower	Upper
180	100		
182	97.2	75.7	113.5
145	34.6	27.4	41.2

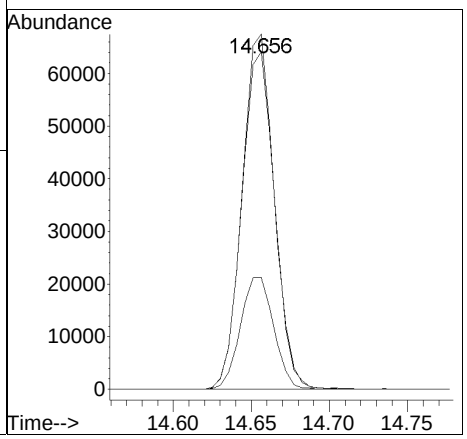




#116
1,2,3-Trichlorobenzene
Concen: 9.16 ug/L
RT: 14.656 min Scan# 2588
Delta R.T. 0.000 min
Lab File: V30240605A28.D
Acq: 05 Jun 2024 04:42 pm

Tgt Ion:180 Resp: 96895

Ion	Ratio	Lower	Upper
180	100		
182	96.9	74.9	112.3
145	32.6	26.0	39.0

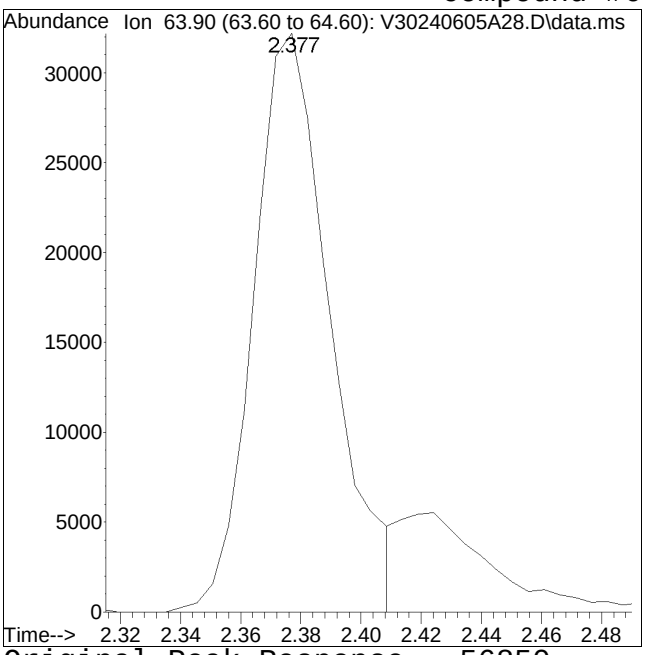


Manual Integration Report

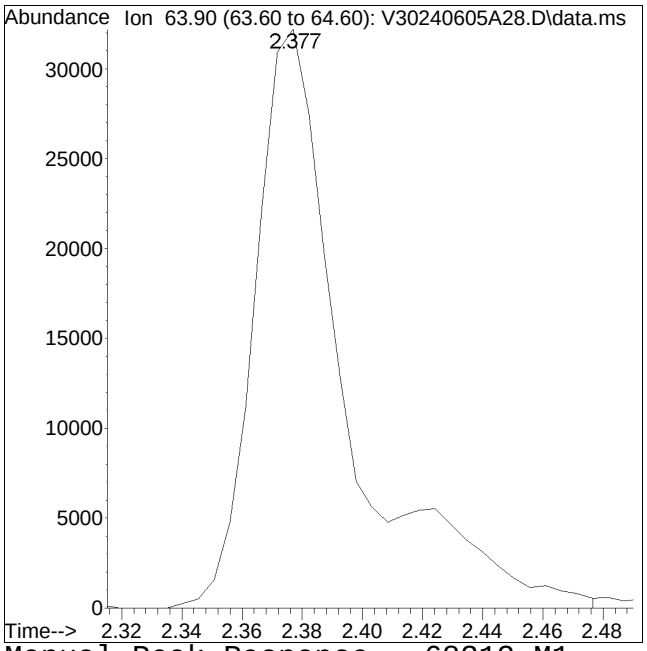
Data Path : K:\VOA130\2024\240605A\
Data File : V30240605A28.D
Date Inj'd : 6/5/2024 4:42 pm
Sample : WG1930005-7,31,10,10,,a2

QMethod : V130_240429A_8260D.m
Operator : VOA130:MAG
Instrument : VOA130
Quant Date : 6/5/2024 5:02 pm

Compound #6: Chloroethane



Original Peak Response = 56850



Manual Peak Response = 68312 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Calculation of Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * Uf * (1/Vo)

Where:
DF = Dilution Factor
Vo = Sample Volume Purged (mL)
Uf = ng Unit Correction Factor (mL)

Soil Concentration Formula: Amt * DF * (1/Wt)

Where:
DF = Dilution Factor
Wt = Weight of Sample (g)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 18 2024, 08:26 am

Work Group: WG1930005 for Department: 31 GC/MS - Volatiles

Created: 05-JUN-24 Due: Operator: PID

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2430070-20	SOTB108_053024	S	NYTCL-8260	WATER	DONE	U	0613	0606	S0	Vial-B
L2430204-01	INFLUENT-053124	S	NYSTARS-8260-G	WATER	DONE	U	0614	0607	S0	Vial-B
L2430204-02	MIDFLUENT-053124	S	NYSTARS-8260-G	WATER	DONE	U	0614	0607	S0	Vial-B
L2430204-03	EFFLUENT-053124	S	NYSTARS-8260-G	WATER	DONE	U	0614	0607	S0	Vial-B
L2430219-01	MW-1S	S	NYTCL-8260-R2	WATER	DONE	U	0613	0607	S0	Vial-B
L2430219-02	MW-2S	S	NYTCL-8260-R2	WATER	DONE	U	0613	0607	S0	Vial-B
L2430219-03	MW-3S	S	NYTCL-8260-R2	WATER	DONE	U	0613	0607	S0	Vial-B
L2430219-04	MW-4D	S	NYTCL-8260-R2	WATER	DONE	U	0613	0607	S0	Vial-B
L2430219-05	MW-5S	S	NYTCL-8260-R2	WATER	DONE	U	0613	0607	S0	Vial-B
L2430219-06	MW-6D	S	NYTCL-8260-R2	WATER	DONE	U	0613	0607	S0	Vial-B
L2430219-07	MW-7S	S	NYTCL-8260-R2	WATER	DONE	U	0613	0607	S0	Vial-B
L2430219-08	MW-8S	S	NYTCL-8260-R2	WATER	DONE	U	0613	0607	S0	Vial-B
L2430219-09	DUP	S	NYTCL-8260-R2	WATER	DONE	U	0613	0607	S0	Vial-B
L2430219-10	FB	S	NYTCL-8260-R2	WATER	DONE	U	0613	0607	S0	Vial-B
L2430219-11	TB	S	NYTCL-8260-R2	WATER	DONE	U	0613	0607	S0	Vial-B
L2430284-08	MW131_053124	S	NYTCL-8260	WATER	DONE	U	0614	0607	1A	Vial-B
L2430308-02	WC-DRUM-01	S	NYTCL-8260-R2	WATER	DONE	U	0614	0607	S0	Vial-B
L2430337-01	UNTREATED BASEMENT WATER	S	NYTCL-8260-R2	WATER	DONE	U	0614	0607	S0	Vial-B
L2430877-13	TRIP BLANK	S	NYCP51-8260	WATER	DONE	U	0528	0605	3A	Vial-B
L2430919-02	TRIP BLANK	S	NYTCL-8260	WATER	DONE	U	0522	0606	3A	Vial-B
WG1930005-1	MS BFB Tune Standard	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1930005-1	MS BFB Tune Standard	S	NYTCL-8260	WATER	DONE	U				
WG1930005-1	MS BFB Tune Standard	S	NYCP51-8260	WATER	DONE	U				
WG1930005-1	MS BFB Tune Standard	S	NYSTARS-8260-G	WATER	DACQ	U				
WG1930005-2	Continuing Calibrati	S	NYCP51-8260	WATER	DONE	U				
WG1930005-2	Continuing Calibrati	S	NYSTARS-8260-G	WATER	DACQ	U				
WG1930005-2	Continuing Calibrati	S	NYTCL-8260	WATER	DONE	U				
WG1930005-2	Continuing Calibrati	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1930005-3	Laboratory Control S	S	NYCP51-8260	WATER	DACQ	U				
WG1930005-3	Laboratory Control S	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1930005-3	Laboratory Control S	S	NYTCL-8260	WATER	DONE	U				
WG1930005-3	Laboratory Control S	S	NYSTARS-8260-G	WATER	DACQ	U				
WG1930005-4	LCS Duplicate	S	NYCP51-8260	WATER	DACQ	U				
WG1930005-4	LCS Duplicate	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1930005-4	LCS Duplicate	S	NYTCL-8260	WATER	DONE	U				
WG1930005-4	LCS Duplicate	S	NYSTARS-8260-G	WATER	DACQ	U				
WG1930005-5	Laboratory Method Bl	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1930005-5	Laboratory Method Bl	S	NYTCL-8260	WATER	DONE	U				
WG1930005-5	Laboratory Method Bl	S	NYCP51-8260	WATER	DACQ	U				
WG1930005-5	Laboratory Method Bl	S	NYSTARS-8260-G	WATER	DACQ	U				
WG1930005-6	Matrix Spike	S	NYSTARS-8260-G	WATER	DACQ	U				
WG1930005-6	Matrix Spike	S	NYCP51-8260	WATER	DACQ	U				
WG1930005-6	Matrix Spike	S	NYTCL-8260	WATER	DONE	U				
WG1930005-6	Matrix Spike	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1930005-7	Matrix Spike Duplica	S	NYCP51-8260	WATER	DACQ	U				
WG1930005-7	Matrix Spike Duplica	S	NYTCL-8260	WATER	DONE	U				
WG1930005-7	Matrix Spike Duplica	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1930005-7	Matrix Spike Duplica	S	NYSTARS-8260-G	WATER	DACQ	U				

Comments:

WG1930005-4	WG1930005-3
WG1930005-6	L2430219-04
WG1930005-7	L2430219-04

Method

Inst: VOA130 BFB: V10345 GC: 8260

Initials: MAG IS/SS: V10385 Autosampler: 8260

Date: **04/29/24** ICAL: V10379B,V10387 Concentrator: 8260

Run: **A** ICV: V10357,V10376,V10378,V10358,V10352,V10377 QC:_____ Seq:_____

Vial	Data File	SAMPLE	pH<2
1	V30240429ABF1	BFB TUNE	
1	V30240429ABF2	BFB TUNE	
1	V30240429ABF3	BFB TUNE	
1	V30240429A01	BLK	
2	V30240429A02	BLK	
3	V30240429A03	I8260STD0.5PPB	
4	V30240429A04	I8260STD0.5PPB	
5	V30240429A05	I8260STD0.19PPB	
6	V30240429A06	I8260STD0.19PPB	
7	V30240429A07	I8260STD2PPB	
8	V30240429A08	I8260STD10PPB	
9	V30240429A09	I8260STD30PPB	
10	V30240429A10	I8260STD80PPB	
11	V30240429A11	I8260STD120PPB	
12	V30240429A12	I8260STD200PPB	
13	V30240429A13	BLK	
14	V30240429A14	BLK	
15	V30240429A15	BLK	
16	V30240429A16	BLK	
17	V30240429A17	C8260STD10PPB	
18	V30240429A18	C8260STD10PPB	
19	V30240429A19	BLK	
20	V30240429A20	BLK	

Inst: VOA130 BFB: V10453 Method GC: 8260
Initials: MJV IS/SS: V10443 Autosampler: 8260
Date: **06/05/24** ICAL: V10450A,V10462 Concentrator: 8260
Run: **A** QC:_____ Seq:_____

Vial	Data File	SAMPLE			pH<2
1	V30240605ABF1	BFB TUNE 06:32			
1	V30240605A01	8260 CCAL LCS			
2	V30240605A02	8260 CCAL LCSD			
3	V30240605A03	8260 CCAL			
4	V30240605A04	BLK			
5	V30240605A05	METHOD BLK			
6	V30240605A06	I2430877-13,31,10,10,,a,r3a	NY STARS	FB	pH<2
7	V30240605A07	I2430919-02,31,10,10,,a,r3a	NYTCL/10	TB	pH<2
8	V30240605A08	I2430070-20,31,10,10,,a	NYCURVE	TB	pH<2
9	V30240605A09	d STD BENZ			
10	V30240605A10	I2430204-01,31,10,10,,a	NYSTARS		pH<2
11	V30240605A11	I2430204-02,31,10,10,,a	NYSTARS		pH<2
12	V30240605A12	I2430204-03,31,10,10,,a	NYSTARS		pH<2
13	V30240605A13	I2430308-02,31,10,10,,a	NYCURVE		pH<2
14	V30240605A14	I2430219-01,31,10,10,,a	NYCURVE		pH<2
15	V30240605A15	I2430219-02,31,10,10,,a	NYCURVE		pH<2
16	V30240605A16	I2430219-03,31,10,10,,a	NYCURVE		pH<2
17	V30240605A17	I2430219-04,31,10,10,,a	NYCURVE		pH<2
18	V30240605A18	I2430219-05,31,10,10,,a	NYCURVE		pH<2
19	V30240605A19	I2430219-06,31,10,10,,a	NYCURVE		pH<2
20	V30240605A20	I2430219-07,31,10,10,,a	NYCURVE		pH<2
21	V30240605A21	I2430219-08,31,10,10,,a	NYCURVE		pH<2
22	V30240605A22	I2430219-09,31,10,10,,a	NYCURVE		pH<2
23	V30240605A23	I2430219-10,31,10,10,,a	NYCURVE	FB	pH<2
24	V30240605A24	I2430219-11,31,10,10,,a	NYCURVE	TB	pH<2
25	V30240605A25	I2430284-08,31,10,10,,a,r1a	NYCURVE		pH<2
26	V30240605A26	L2430337-01d,31,1.0,10,,A	NY/R2		pH<2
27	V30240605A27	I2430219-04MS,31,10,10,,a1	NYCURVE		pH<2
28	V30240605A28	I2430219-04MSD,31,10,10,,a2	NYCURVE		pH<2

Semivolatiles Data- Method 8270

Semivolatiles QC Summary

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1929069-2 **Analysis Date** : 06/05/24 02:16	**File ID**	: 929069-2
LCSD Sample ID	: WG1929069-3 **Analysis Date** : 06/05/24 02:42	**File ID**	: 929069-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Bis(2-chloroethyl)ether	18	12.	65	18	13.	72	10	40-140	30
3,3'-Dichlorobenzidine	18	12.	69	18	14.	79	14	40-140	30
2,4-Dinitrotoluene	18	12.	68	18	14.	74	8	48-143	30
2,6-Dinitrotoluene	18	14.	77	18	15.	84	9	40-140	30
4-Chlorophenyl phenyl ether	18	13.	71	18	14.	80	12	40-140	30
4-Bromophenyl phenyl ether	18	13.	71	18	14.	76	7	40-140	30
Bis(2-chloroisopropyl)ether	18	12.	64	18	13.	72	12	40-140	30
Bis(2-chloroethoxy)methane	18	12.	69	18	14.	76	10	40-140	30
Hexachlorocyclopentadiene	18	9.4	52	18	11.	61	16	40-140	30
Isophorone	18	12.	68	18	14.	75	10	40-140	30
Nitrobenzene	18	12.	66	18	14.	77	15	40-140	30
NDPA/DPA	18	13.	74	18	15.	82	10	40-140	30
n-Nitrosodi-n-propylamine	18	12.	67	18	14.	77	14	29-132	30
Bis(2-ethylhexyl)phthalate	18	13.	70	18	14.	76	8	40-140	30
Butyl benzyl phthalate	18	13.	72	18	14.	76	5	40-140	30
Di-n-butylphthalate	18	14.	76	18	14.	80	5	40-140	30
Di-n-octylphthalate	18	13.	70	18	14.	74	6	40-140	30
Diethyl phthalate	18	13.	73	18	14.	80	9	40-140	30
Dimethyl phthalate	18	14.	75	18	14.	77	3	40-140	30
Biphenyl	18	13.	69	18	14.	75	8	40-140	30
4-Chloroaniline	18	11.	60	18	14.	75	22	40-140	30
2-Nitroaniline	18	14.	77	18	15.	84	9	52-143	30
3-Nitroaniline	18	13.	74	18	15.	82	10	25-145	30
4-Nitroaniline	18	13.	73	18	15.	81	10	51-143	30
Dibenzofuran	18	13.	71	18	14.	78	9	40-140	30
1,2,4,5-Tetrachlorobenzene	18	12.	65	18	13.	71	9	2-134	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client : Alpha Geoscience **Lab Number** : L2430219
Project Name : HUNTINGTON READY MIXED **Project Number** : 20116
Matrix (Level) : WATER (LOW)
LCS Sample ID : WG1929069-2 **Analysis Date** : 06/05/24 02:16 **File ID** : 929069-2
LCSD Sample ID : WG1929069-3 **Analysis Date** : 06/05/24 02:42 **File ID** : 929069-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Acetophenone	18	12.	66	18	14.	77	15	39-129	30
2,4,6-Trichlorophenol	18	13.	74	18	15.	82	10	30-130	30
p-Chloro-m-cresol	18	14.	77	18	15.	83	8	23-97	30
2-Chlorophenol	18	12.	66	18	13.	73	10	27-123	30
2,4-Dichlorophenol	18	13.	71	18	14.	80	12	30-130	30
2,4-Dimethylphenol	18	11.	62	18	12.	68	9	30-130	30
2-Nitrophenol	18	11.	63	18	13.	74	16	30-130	30
4-Nitrophenol	18	12.	68	18	13.	73	7	10-80	30
2,4-Dinitrophenol	18	8.3	45	18	8.6	47	4	20-130	30
4,6-Dinitro-o-cresol	18	11.	61	18	12.	66	8	20-164	30
Phenol	18	9.9	54	18	11.	60	11	12-110	30
2-Methylphenol	18	12.	68	18	14.	77	12	30-130	30
3-Methylphenol/4-Methylphenol	18	13.	71	18	14.	77	8	30-130	30
2,4,5-Trichlorophenol	18	14.	80	18	15.	83	4	30-130	30
Carbazole	18	14.	78	18	15.	84	7	55-144	30
Atrazine	18	15.	81	18	15.	81	0	40-140	30
Benzaldehyde	18	11.	63	18	13.	71	12	40-140	30
Caprolactam	18	6.3	34	18	6.6	36	6	10-130	30
2,3,4,6-Tetrachlorophenol	18	14.	78	18	15.	85	9	40-140	30

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2430219-04	**Analysis Date**	: 06/05/24 13:09
Matrix Spike	: WG1929069-6	**MS Analysis Date**	: 06/05/24 13:31
Matrix Spike Dup	: WG1929069-7	**MSD Analysis Date**	: 06/05/24 13:54

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Bis(2-chloroethyl)ether	ND	18.2	14.	77	18.2	14.	77	0	40-140	30
3,3'-Dichlorobenzidine	ND	18.2	15.	83	18.2	14.	77	7	40-140	30
2,4-Dinitrotoluene	ND	18.2	16.	88	18.2	15.	83	6	48-143	30
2,6-Dinitrotoluene	ND	18.2	14.	77	18.2	14.	77	0	40-140	30
4-Chlorophenyl phenyl ether	ND	18.2	15.	83	18.2	15.	83	0	40-140	30
4-Bromophenyl phenyl ether	ND	18.2	15.	83	18.2	14.	77	7	40-140	30
Bis(2-chloroisopropyl)ether	ND	18.2	14.	77	18.2	14.	77	0	40-140	30
Bis(2-chloroethoxy)methane	ND	18.2	15.	83	18.2	14.	77	7	40-140	30
Hexachlorocyclopentadiene	ND	18.2	12.J	66	18.2	12.J	66	0	40-140	30
Isophorone	ND	18.2	14.	77	18.2	13.	72	7	40-140	30
Nitrobenzene	ND	18.2	14.	77	18.2	14.	77	0	40-140	30
NDPA/DPA	ND	18.2	15.	83	18.2	15.	83	0	40-140	30
n-Nitrosodi-n-propylamine	ND	18.2	13.	72	18.2	13.	72	0	29-132	30
Bis(2-ethylhexyl)phthalate	ND	18.2	16.	88	18.2	15.	83	6	40-140	30
Butyl benzyl phthalate	ND	18.2	16.	88	18.2	14.	77	13	40-140	30
Di-n-butylphthalate	ND	18.2	16.	88	18.2	15.	83	6	40-140	30
Di-n-octylphthalate	ND	18.2	17.	94	18.2	15.	83	13	40-140	30
Diethyl phthalate	ND	18.2	15.	83	18.2	14.	77	7	40-140	30
Dimethyl phthalate	ND	18.2	14.	77	18.2	14.	77	0	40-140	30
Biphenyl	ND	18.2	14.	77	18.2	14.	77	0	40-140	30
4-Chloroaniline	ND	18.2	13.	72	18.2	14.	77	7	40-140	30
2-Nitroaniline	ND	18.2	14.	77	18.2	15.	83	7	52-143	30

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2430219-04	**Analysis Date**	: 06/05/24 13:09
Matrix Spike	: WG1929069-6	**MS Analysis Date**	: 06/05/24 13:31
Matrix Spike Dup	: WG1929069-7	**MSD Analysis Date**	: 06/05/24 13:54

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
3-Nitroaniline	ND	18.2	14.	77	18.2	16.	88	13	25-145	30
4-Nitroaniline	ND	18.2	14.	77	18.2	15.	83	7	51-143	30
Dibenzofuran	ND	18.2	15.	83	18.2	15.	83	0	40-140	30
1,2,4,5-Tetrachlorobenzene	ND	18.2	13.	72	18.2	14.	77	7	2-134	30
Acetophenone	ND	18.2	15.	83	18.2	13.	72	14	39-129	30
2,4,6-Trichlorophenol	ND	18.2	14.	77	18.2	15.	83	7	30-130	30
p-Chloro-m-cresol	ND	18.2	15.	83	18.2	15.	83	0	23-97	30
2-Chlorophenol	ND	18.2	15.	83	18.2	14.	77	7	27-123	30
2,4-Dichlorophenol	ND	18.2	15.	83	18.2	14.	77	7	30-130	30
2,4-Dimethylphenol	ND	18.2	14.	77	18.2	12.	66	15	30-130	30
2-Nitrophenol	ND	18.2	15.	83	18.2	15.	83	0	30-130	30
4-Nitrophenol	ND	18.2	14.	77	18.2	13.	72	7	10-80	30
2,4-Dinitrophenol	ND	18.2	11.J	61	18.2	14.J	77	24	20-130	30
4,6-Dinitro-o-cresol	ND	18.2	15.	83	18.2	15.	83	0	20-164	30
Phenol	ND	18.2	12.	66	18.2	11.	61	9	12-110	30
2-Methylphenol	ND	18.2	15.	83	18.2	14.	77	7	30-130	30
3-Methylphenol/4-Methylphenol	ND	18.2	14.	77	18.2	13.	72	7	30-130	30
2,4,5-Trichlorophenol	ND	18.2	15.	83	18.2	16.	88	6	30-130	30
Carbazole	ND	18.2	16.	88	18.2	15.	83	6	55-144	30
Atrazine	ND	18.2	14.	77	18.2	13.	72	7	40-140	30
Benzaldehyde	ND	18.2	14.	77	18.2	13.	72	7	40-140	30
Caprolactam	ND	18.2	7.8J	43	18.2	7.1J	39	9	10-130	30

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2430219-04	**Analysis Date**	: 06/05/24 13:09
Matrix Spike	: WG1929069-6	**MS Analysis Date**	: 06/05/24 13:31
Matrix Spike Dup	: WG1929069-7	**MSD Analysis Date**	: 06/05/24 13:54

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
2,3,4,6-Tetrachlorophenol	ND	18.2	15.	83	18.2	15.	83	0	40-140	30

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Alpha Geoscience
Project Name: HUNTINGTON READY MIXED

Lab Number: L2430219
Project Number: 20116
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
MW-1S (L2430219-01)	69	59	79	82	104	90	0
MW-2S (L2430219-02)	53	50	70	72	85	90	0
MW-3S (L2430219-03)	69	57	84	80	94	86	0
MW-4D (L2430219-04)	64	53	75	79	76	84	0
MW-5S (L2430219-05)	64	55	70	71	84	79	0
MW-6D (L2430219-06)	68	57	79	78	95	86	0
MW-7S (L2430219-07)	63	55	74	73	92	77	0
MW-8S (L2430219-08)	65	55	73	73	87	74	0
DUP (L2430219-09)	66	55	76	74	86	79	0
FB (L2430219-10)	67	57	87	83	92	85	0
WG1929069-1BLANK	62	53	72	76	64	84	0
WG1929069-2LCS	59	53	66	68	71	73	0
WG1929069-3LCSD	66	59	77	74	78	77	0
MW-4DMS	70	61	74	76	85	85	0
MW-4DMSD	67	61	74	77	84	77	0

QC LIMITS

(21-120)	2FP = 2-FLUOROPHENOL
(10-120)	PHL = PHENOL-D6
(23-120)	NBZ = NITROBENZENE-D5
(15-120)	FBP = 2-FLUOROBIPHENYL
(10-120)	TBP = 2,4,6-TRIBROMOPHENOL
(41-149)	TPH = 4-TERPHENYL-D14

*** Values outside of QC limits**

Method Blank Summary
Form 4
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab Sample ID	: WG1929069-1	**Lab File ID**	: 929069-1
Instrument ID	: SV107	**Extraction Date**	: 06/03/24
Matrix	: WATER	**Analysis Date**	: 06/05/24 01:48
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1929069-2LCS	WG1929069-2	06/05/24 02:16
WG1929069-3LCSD	WG1929069-3	06/05/24 02:42
MW-4D	L2430219-04	06/05/24 13:09
MW-4DMS	WG1929069-6	06/05/24 13:31
MW-4DMSD	WG1929069-7	06/05/24 13:54
MW-1S	L2430219-01	06/05/24 17:38
MW-2S	L2430219-02	06/05/24 18:00
MW-3S	L2430219-03	06/05/24 18:23
MW-5S	L2430219-05	06/05/24 18:45
MW-6D	L2430219-06	06/05/24 19:07
MW-7S	L2430219-07	06/05/24 19:30
MW-8S	L2430219-08	06/05/24 19:52
DUP	L2430219-09	06/05/24 20:15
FB	L2430219-10	06/06/24 21:39

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: SV107	**Analysis Date**	: 06/02/24 19:09
Tune Standard	: R1836615-1	**Tune File ID**	: Tune1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	35.9
68	Less than 2.0% of mass 69	0.6 (1.7)1
69		100
70	Less than 2.0% of mass 69	0.2 (.6)1
127	10.0 - 80.0% of Base Peak	44
197	Less than 2.0% of mass 198	0.8
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	21.3
365	Greater than 1.0% of mass 198	2.3
441	Present, but less than 24% of mass 442	16.8
442	Base Peak, or >50% of mass 198	82
443	15.0 - 24.0% of mass 442	16.6 (20.2)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ABNL9	R1836615-11	ABNL9	06/02/24 19:34
ABNL8	R1836615-10	ABNL8	06/02/24 19:59
ABNL7	R1836615-9	ABNL7	06/02/24 20:24
ABNL6	R1836615-8	ABNL6	06/02/24 20:50
ABNL5	R1836615-7	ABNL5	06/02/24 21:15
ABNL4	R1836615-6	ABNL4	06/02/24 21:40
ABNL3	R1836615-5	ABNL3	06/02/24 22:05
ABNL2	R1836615-4	ABNL2	06/02/24 22:30
ABNL1	R1836615-3	ABNL1	06/02/24 22:56
AP9L9	R1836615-29	AP9L9	06/02/24 23:21
AP9L8	R1836615-28	AP9L8	06/02/24 23:47
AP9L7	R1836615-27	AP9L7	06/03/24 00:12
AP9L6	R1836615-25	AP9L6	06/03/24 00:37
AP9L5	R1836615-26	AP9L5	06/03/24 01:08
AP9L4	R1836615-24	AP9L4	06/03/24 01:33
AP9L3	R1836615-23	AP9L3	06/03/24 01:58
AP9L2	R1836615-22	AP9L2	06/03/24 02:23
AP9L1	R1836615-21	AP9L1	06/03/24 02:49
ABN ICV Quant Report	R1836615-30	ABNICV	06/03/24 03:14
AP9 ICV Quant Report	R1836615-32	AP9ICV	06/03/24 03:39

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: SV107	**Analysis Date**	: 06/03/24 04:04
Tune Standard	: R1836615-2	**Tune File ID**	: Tune2_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	34.1
68	Less than 2.0% of mass 69	0.5 (1.6)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	43.3
197	Less than 2.0% of mass 198	0.7
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	21.9
365	Greater than 1.0% of mass 198	2.5
441	Present, but less than 24% of mass 442	17.1
442	Base Peak, or >50% of mass 198	89.8
443	15.0 - 24.0% of mass 442	17.6 (19.6)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ADPL9	R1836615-20	ADPL9	06/03/24 04:29
ADPL8	R1836615-19	ADPL8	06/03/24 04:54
ADPL7	R1836615-18	ADPL7	06/03/24 05:19
ADPL6	R1836615-17	ADPL6	06/03/24 05:45
ADPL5	R1836615-16	ADPL5	06/03/24 06:10
ADPL4	R1836615-15	ADPL4	06/03/24 06:35
ADPL3	R1836615-14	ADPL3	06/03/24 07:00
ADPL2	R1836615-13	ADPL2	06/03/24 07:25
ADPL1	R1836615-12	ADPL1	06/03/24 07:50
ADP ICV Quant Report	R1836615-31	ADPICV	06/03/24 08:15

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: SV107	**Analysis Date**	: 06/04/24 21:36
Tune Standard	: WG1929711-1	**Tune File ID**	: DEG0604_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	34.5
68	Less than 2.0% of mass 69	0.6 (1.6)1
69		100
70	Less than 2.0% of mass 69	0.2 (.6)1
127	10.0 - 80.0% of Base Peak	44
197	Less than 2.0% of mass 198	0.7
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	21.6
365	Greater than 1.0% of mass 198	2.5
441	Present, but less than 24% of mass 442	16.6
442	Base Peak, or >50% of mass 198	88.4
443	15.0 - 24.0% of mass 442	17.1 (19.4)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1929711-6TFACTOR-P	WG1929711-6	DEG0604	06/04/24 21:36
WG1929711-7TFACTOR-B	WG1929711-7	DEG0604	06/04/24 21:36
WG1929711-3CCAL	WG1929711-3	ABN0604	06/04/24 22:02
WG1929711-4CCAL	WG1929711-4	AP90604	06/04/24 22:27
WG1929711-5CCAL	WG1929711-5	ADP0604	06/04/24 22:52
WG1929069-1BLANK	WG1929069-1	929069-1	06/05/24 01:48
WG1929069-2LCS	WG1929069-2	929069-2	06/05/24 02:16
WG1929069-3LCSD	WG1929069-3	929069-3	06/05/24 02:42

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: DAKOTA	**Analysis Date**	: 05/31/24 17:39
Tune Standard	: R1837206-29	**Tune File ID**	: Tune1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	36.2
68	Less than 2.0% of mass 69	0 (0)1
69		100
70	Less than 2.0% of mass 69	0.2 (.6)1
127	10.0 - 80.0% of Base Peak	44.7
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.5
275	10.0 - 60.0% of Base Peak	26.3
365	Greater than 1.0% of mass 198	2.9
441	Present, but less than 24% of mass 442	17.6
442	Base Peak, or >50% of mass 198	58.1
443	15.0 - 24.0% of mass 442	11.1 (19.1)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ABNL9	R1837206-11	ABNL9	05/31/24 18:03
ABNL8	R1837206-10	ABNL8	05/31/24 18:26
ABNL7	R1837206-31	ABNL7	05/31/24 18:50
ABNL6	R1837206-9	ABNL6	05/31/24 19:16
ABNL5	R1837206-8	ABNL5	05/31/24 19:41
ABNL4	R1837206-7	ABNL4	05/31/24 20:06
ABNL3	R1837206-6	ABNL3	05/31/24 20:32
ABNL2	R1837206-5	ABNL2	05/31/24 20:54
ABNL1	R1837206-4	ABNL1	05/31/24 21:16
AP9L9	R1837206-28	AP9L9	05/31/24 21:39
AP9L8	R1837206-27	AP9L8	05/31/24 22:01
AP9L7	R1837206-25	AP9L7	05/31/24 22:24
AP9L6	R1837206-26	AP9L6	05/31/24 22:46
AP9L5	R1837206-32	AP9L5	05/31/24 23:08
AP9L4	R1837206-23	AP9L4	05/31/24 23:30
AP9L3	R1837206-24	AP9L3	05/31/24 23:53
AP9L2	R1837206-22	AP9L2	06/01/24 00:15
AP9L1	R1837206-21	AP9L1	06/01/24 00:37
ABN ICV Quant Report	R1837206-3	ABNICV	06/01/24 01:00
AP9 ICV Quant Report	R1837206-1	AP9ICV	06/01/24 01:22

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: DAKOTA	**Analysis Date**	: 06/01/24 01:44
Tune Standard	: R1837206-30	**Tune File ID**	: Tune2_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	38.8
68	Less than 2.0% of mass 69	0 (0)1
69		100
70	Less than 2.0% of mass 69	0.2 (.4)1
127	10.0 - 80.0% of Base Peak	46.7
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7
275	10.0 - 60.0% of Base Peak	25.7
365	Greater than 1.0% of mass 198	2.4
441	Present, but less than 24% of mass 442	17.1
442	Base Peak, or >50% of mass 198	53.1
443	15.0 - 24.0% of mass 442	10.1 (19)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ADPL9	R1837206-20	ADPL9	06/01/24 02:07
ADPL8	R1837206-19	ADPL8	06/01/24 02:37
ADPL7	R1837206-18	ADPL7	06/01/24 02:51
ADPL6	R1837206-17	ADPL6	06/01/24 03:13
ADPL5	R1837206-16	ADPL5	06/01/24 03:36
ADPL4	R1837206-15	ADPL4	06/01/24 03:58
ADPL3	R1837206-14	ADPL3	06/01/24 04:20
ADPL2	R1837206-13	ADPL2	06/01/24 04:43
ADPL1	R1837206-12	ADPL1	06/01/24 05:05
ADP ICV Quant Report	R1837206-2	ADPICV	06/01/24 05:27

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: DAKOTA	**Analysis Date**	: 06/05/24 08:35
Tune Standard	: WG1929981-1	**Tune File ID**	: DEG0605_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	37.9
68	Less than 2.0% of mass 69	0 (0)1
69		100
70	Less than 2.0% of mass 69	0.3 (.7)1
127	10.0 - 80.0% of Base Peak	45.3
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 60.0% of Base Peak	24.9
365	Greater than 1.0% of mass 198	2.5
441	Present, but less than 24% of mass 442	18
442	Base Peak, or >50% of mass 198	52.9
443	15.0 - 24.0% of mass 442	9.9 (18.7)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1929981-6TFACTOR-B	WG1929981-6	DEG0605	06/05/24 08:35
WG1929981-7TFACTOR-P	WG1929981-7	DEG0605	06/05/24 08:35
WG1929981-3CCAL	WG1929981-3	ABN0605	06/05/24 08:58
WG1929981-4CCAL	WG1929981-4	AP90605	06/05/24 09:20
WG1929981-5CCAL	WG1929981-5	ADP0605	06/05/24 09:42
MW-4D	L2430219-04	30219-04	06/05/24 13:09
WG1929069-6MS	WG1929069-6	929069-6	06/05/24 13:31
WG1929069-7MSD	WG1929069-7	929069-7	06/05/24 13:54
MW-1S	L2430219-01	30219-01	06/05/24 17:38
MW-2S	L2430219-02	30219-02	06/05/24 18:00
MW-3S	L2430219-03	30219-03	06/05/24 18:23
MW-5S	L2430219-05	30219-05	06/05/24 18:45
MW-6D	L2430219-06	30219-06	06/05/24 19:07
MW-7S	L2430219-07	30219-07	06/05/24 19:30
MW-8S	L2430219-08	30219-08	06/05/24 19:52
DUP	L2430219-09	30219-09	06/05/24 20:15

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: DAKOTA	**Analysis Date**	: 06/06/24 12:41
Tune Standard	: WG1930740-1	**Tune File ID**	: DEG0606_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	40.1
68	Less than 2.0% of mass 69	0.6 (1.3)1
69		100
70	Less than 2.0% of mass 69	0.1 (.3)1
127	10.0 - 80.0% of Base Peak	47.9
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.9
275	10.0 - 60.0% of Base Peak	24.6
365	Greater than 1.0% of mass 198	2.4
441	Present, but less than 24% of mass 442	17.6
442	Base Peak, or >50% of mass 198	51.8
443	15.0 - 24.0% of mass 442	10.1 (19.4)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1930740-6TFACTOR-B	WG1930740-6	DEG0606	06/06/24 12:41
WG1930740-7TFACTOR-P	WG1930740-7	DEG0606	06/06/24 12:41
WG1930740-3CCAL	WG1930740-3	ABN0606	06/06/24 13:04
WG1930740-4CCAL	WG1930740-4	AP90606	06/06/24 13:26
WG1930740-5CCAL	WG1930740-5	ADP0606	06/06/24 13:48
FB	L2430219-10	30219-10	06/06/24 21:39

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: SV107	**Analysis Date**	: 06/04/24 22:02:00
Sample No	: WG1929711-3	**Lab File ID**	: ABN0604

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1929711-3	52630	6.53	197654	7.96	122929	9.73
Upper Limit	105260	7.03	395308	8.46	245858	10.23
Lower Limit	26315	6.03	98827	7.46	61465	9.23
Sample ID						
WG1929711-4 CCAL	50356	6.53	193831	7.96	119793	9.73
WG1929711-5 CCAL	52597	6.53	-	-	119476	9.73
WG1929069-1 BLANK	54578	6.53	200706	7.96	119076	9.73
WG1929069-2 LCS	55131	6.53	200301	7.96	124635	9.73
WG1929069-3 LCSD	54007	6.53	199290	7.96	120936	9.73

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: SV107	**Analysis Date**	: 06/04/24 22:02:00
Sample No	: WG1929711-3	**Lab File ID**	: ABN0604

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1929711-3	245414	11.18	226686	13.84	226371	15.33
Upper Limit	490828	11.68	453372	14.34	452742	15.83
Lower Limit	122707	10.68	113343	13.34	113186	14.83
Sample ID						
WG1929711-4 CCAL	254681	11.17	-	-	-	-
WG1929711-5 CCAL	258227	11.17	-	-	-	-
WG1929069-1 BLANK	246510	11.17	211775	13.83	215273	15.32
WG1929069-2 LCS	251974	11.17	231354	13.84	226725	15.32
WG1929069-3 LCSD	240063	11.18	211758	13.83	208341	15.32

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: DAKOTA	**Analysis Date**	: 06/05/24 08:58:00
Sample No	: WG1929981-3	**Lab File ID**	: ABN0605

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1929981-3	25549	4.81	92758	6.04	60587	7.75
Upper Limit	51098	5.31	185516	6.54	121174	8.25
Lower Limit	12775	4.31	46379	5.54	30294	7.25
Sample ID						
WG1929981-4 CCAL	24259	4.81	86554	6.04	57668	7.75
WG1929981-5 CCAL	27971	4.81	-	-	66116	7.75
MW-4D	25703	4.81	89943	6.04	57501	7.75
MW-4D MS	27303	4.81	98534	6.04	63357	7.75
MW-4D MSD	25541	4.81	85629	6.04	53990	7.75
MW-1S	25557	4.81	94012	6.04	62775	7.75
MW-2S	24155	4.81	89861	6.04	61073	7.75
MW-3S	22831	4.81	82101	6.04	53188	7.75
MW-5S	27391	4.81	96772	6.04	63421	7.75
MW-6D	26607	4.81	96926	6.04	64575	7.75
MW-7S	27579	4.81	98684	6.04	66795	7.75
MW-8S	24853	4.81	88453	6.04	58238	7.75
DUP	26560	4.81	96881	6.04	64835	7.75

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: DAKOTA	**Analysis Date**	: 06/05/24 08:58:00
Sample No	: WG1929981-3	**Lab File ID**	: ABN0605

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1929981-3	137458	9.18	145741	11.82	171394	13.29
Upper Limit	274916	9.68	291482	12.32	342788	13.79
Lower Limit	68729	8.68	72871	11.32	85697	12.79
Sample ID						
WG1929981-4 CCAL	134176	9.18	-	-	-	-
WG1929981-5 CCAL	156367	9.18	-	-	-	-
MW-4D	124105	9.18	128887	11.83	158158	13.29
MW-4D MS	130141	9.18	134984	11.82	161071	13.29
MW-4D MSD	112379	9.18	107579	11.83	123989	13.30
MW-1S	145111	9.18	159096	11.83	182112	13.30
MW-2S	137783	9.18	150909	11.82	180857	13.30
MW-3S	122336	9.18	126961	11.83	155546	13.30
MW-5S	141298	9.18	148705	11.83	178819	13.29
MW-6D	145689	9.18	152721	11.83	177270	13.30
MW-7S	152110	9.18	161240	11.83	187452	13.30
MW-8S	135688	9.18	142366	11.82	167247	13.29
DUP	151524	9.18	154895	11.83	180036	13.30

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: DAKOTA	**Analysis Date**	: 06/06/24 13:04:00
Sample No	: WG1930740-3	**Lab File ID**	: ABN0606

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1930740-3	28336	4.61	106354	5.85	72631	7.55
Upper Limit	56672	5.11	212708	6.35	145262	8.05
Lower Limit	14168	4.11	53177	5.35	36316	7.05
Sample ID						
WG1930740-4 CCAL	25966	4.61	92927	5.85	64770	7.55
WG1930740-5 CCAL	29035	4.61	-	-	71961	7.55
FB	24863	4.61	90860	5.84	61039	7.55

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: DAKOTA	**Analysis Date**	: 06/06/24 13:04:00
Sample No	: WG1930740-3	**Lab File ID**	: ABN0606

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1930740-3	173211	8.97	181940	11.59	205628	13.03
Upper Limit	346422	9.47	363880	12.09	411256	13.53
Lower Limit	86606	8.47	90970	11.09	102814	12.53
Sample ID						
WG1930740-4 CCAL	157060	8.97	-	-	-	-
WG1930740-5 CCAL	169764	8.97	-	-	-	-
FB	143025	8.97	153038	11.59	182010	13.03

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

ABN Extractables - EPA 8270E (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	2	1.06	ug/l	37-111	30	37-111	30	30			
Benzidine	92-87-5	20	8.14	ug/l	10-75	30	10-75	30	30			
1,2,4-Trichlorobenzene	120-82-1	5	0.581	ug/l	39-98	30	39-98	30	30			
Hexachlorobenzene	118-74-1	2	0.69	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethyl)ether	111-44-4	2	0.884	ug/l	40-140	30	40-140	30	30			
2-Chloronaphthalene	91-58-7	2	0.538	ug/l	40-140	30	40-140	30	30			
1,2-Dichlorobenzene	95-50-1	2	0.636	ug/l	40-140	30	40-140	30	30			
1,3-Dichlorobenzene	541-73-1	2	0.642	ug/l	40-140	30	40-140	30	30			
1,4-Dichlorobenzene	106-46-7	2	0.463	ug/l	36-97	30	36-97	30	30			
3,3'-Dichlorobenzidine	91-94-1	5	0.854	ug/l	40-140	30	40-140	30	30			
2,4-Dinitrotoluene	121-14-2	5	0.382	ug/l	48-143	30	48-143	30	30			
2,6-Dinitrotoluene	606-20-2	5	0.368	ug/l	40-140	30	40-140	30	30			
Azobenzene	122-66-7	2	0.81	ug/l	40-140	30	40-140	30	30			
Fluoranthene	206-44-0	2	0.653	ug/l	40-140	30	40-140	30	30			
4-Chlorophenyl phenyl ether	7005-72-3	2	0.795	ug/l	40-140	30	40-140	30	30			
4-Bromophenyl phenyl ether	101-55-3	2	0.632	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroisopropyl)ether	108-60-1	2	1.75	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethoxy)methane	111-91-1	5	1.49	ug/l	40-140	30	40-140	30	30			
Hexachlorobutadiene	87-68-3	2	0.6	ug/l	40-140	30	40-140	30	30			
Hexachlorocyclopentadiene	77-47-4	20	0.606	ug/l	40-140	30	40-140	30	30			
Hexachloroethane	67-72-1	2	0.44	ug/l	40-140	30	40-140	30	30			
Isophorone	78-59-1	5	0.657	ug/l	40-140	30	40-140	30	30			
Naphthalene	91-20-3	2	0.669	ug/l	40-140	30	40-140	30	30			
Nitrobenzene	98-95-3	2	0.656	ug/l	40-140	30	40-140	30	30			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	2	0.65	ug/l	40-140	30	40-140	30	30			
n-Nitrosodi-n-propylamine	621-64-7	5	0.771	ug/l	29-132	30	29-132	30	30			
Bis(2-Ethylhexyl)phthalate	117-81-7	3	1.51	ug/l	40-140	30	40-140	30	30			
Butyl benzyl phthalate	85-68-7	5	2.18	ug/l	40-140	30	40-140	30	30			
Di-n-butylphthalate	84-74-2	5	0.58	ug/l	40-140	30	40-140	30	30			
Di-n-octylphthalate	117-84-0	5	2.39	ug/l	40-140	30	40-140	30	30			
Diethyl phthalate	84-66-2	5	4.3	ug/l	40-140	30	40-140	30	30			
Dimethyl phthalate	131-11-3	5	4.44	ug/l	40-140	30	40-140	30	30			
Benzo(a)anthracene	56-55-3	2	0.767	ug/l	40-140	30	40-140	30	30			
Benzo(a)pyrene	50-32-8	2	0.447	ug/l	40-140	30	40-140	30	30			
Benzo(b)fluoranthene	205-99-2	2	0.814	ug/l	40-140	30	40-140	30	30			
Benzo(k)fluoranthene	207-08-9	2	0.816	ug/l	40-140	30	40-140	30	30			
Chrysene	218-01-9	2	0.828	ug/l	40-140	30	40-140	30	30			
Acenaphthylene	208-96-8	2	0.59	ug/l	45-123	30	45-123	30	30			
Anthracene	120-12-7	2	0.79	ug/l	40-140	30	40-140	30	30			
Benzo(ghi)perylene	191-24-2	2	0.77	ug/l	40-140	30	40-140	30	30			
Fluorene	86-73-7	2	1.05	ug/l	40-140	30	40-140	30	30			
Phenanthrene	85-01-8	2	0.992	ug/l	40-140	30	40-140	30	30			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 2

ABN Extractables - EPA 8270E (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibenzo(a,h)anthracene	53-70-3	2	0.452	ug/l	40-140	30	40-140	30	30			
Indeno(1,2,3-cd)Pyrene	193-39-5	2	0.943	ug/l	40-140	30	40-140	30	30			
Pyrene	129-00-0	2	0.704	ug/l	26-127	30	26-127	30	30			
Biphenyl	92-52-4	2	0.635	ug/l	40-140	30	40-140	30	30			
Aniline	62-53-3	2	0.482	ug/l	40-140	30	40-140	30	30			
4-Chloroaniline	106-47-8	5	0.647	ug/l	40-140	30	40-140	30	30			
1-Methylnaphthalene	90-12-0	2	0.595	ug/l	41-103	30	41-103	30	30			
2-Nitroaniline	88-74-4	5	0.519	ug/l	52-143	30	52-143	30	30			
3-Nitroaniline	99-09-2	5	0.574	ug/l	25-145	30	25-145	30	30			
4-Nitroaniline	100-01-6	5	0.581	ug/l	51-143	30	51-143	30	30			
Dibenzofuran	132-64-9	2	0.823	ug/l	40-140	30	40-140	30	30			
2-Methylnaphthalene	91-57-6	2	0.677	ug/l	40-140	30	40-140	30	30			
n-Nitrosodimethylamine	62-75-9	2	0.524	ug/l	22-74	30	22-74	30	30			
2,4,6-Trichlorophenol	88-06-2	5	0.494	ug/l	30-130	30	30-130	30	30			
P-Chloro-M-Cresol	59-50-7	2	0.406	ug/l	23-97	30	23-97	30	30			
2-Chlorophenol	95-57-8	2	0.405	ug/l	27-123	30	27-123	30	30			
2,4-Dichlorophenol	120-83-2	5	0.527	ug/l	30-130	30	30-130	30	30			
2,4-Dimethylphenol	105-67-9	5	1.1	ug/l	30-130	30	30-130	30	30			
2-Nitrophenol	88-75-5	10	0.463	ug/l	30-130	30	30-130	30	30			
4-Nitrophenol	100-02-7	10	1.14	ug/l	10-80	30	10-80	30	30			
2,4-Dinitrophenol	51-28-5	20	3.55	ug/l	20-130	30	20-130	30	30			
4,6-Dinitro-o-cresol	534-52-1	10	5.42	ug/l	20-164	30	20-164	30	30			
Pentachlorophenol	87-86-5	10	1.95	ug/l	9-103	30	9-103	30	30			
Phenol	108-95-2	5	1.3	ug/l	12-110	30	12-110	30	30			
2-Methylphenol	95-48-7	5	1.1	ug/l	30-130	30	30-130	30	30			
3-Methylphenol/4-Methylphenol	106-44-5	5	0.55	ug/l	30-130	30	30-130	30	30			
2,4,5-Trichlorophenol	95-95-4	5	0.381	ug/l	30-130	30	30-130	30	30			
Benzoic Acid	65-85-0	50	12.9	ug/l	10-164	30	10-164	30	30			
Benzyl Alcohol	100-51-6	2	0.698	ug/l	26-116	30	26-116	30	30			
Carbazole	86-74-8	2	0.759	ug/l	55-144	30	55-144	30	30			
Pyridine	110-86-1	3.5	0.905	ug/l	10-66	30	10-66	30	30			
2-Fluorophenol	*367-12-4*									*21-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*15-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-120*		
4-Terphenyl-d14	*1718-51-0*									*41-149*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
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Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

ABN Extractables - EPA 8270E (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	133.6	17.3012	ug/kg	31-137	50	31-137	50	50			
Benzidine	92-87-5	551.1	181.028	ug/kg	10-66	50	10-66	50	50			
1,2,4-Trichlorobenzene	120-82-1	167	19.1048	ug/kg	38-107	50	38-107	50	50			
Hexachlorobenzene	118-74-1	100.2	18.704	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroethyl)ether	111-44-4	150.3	22.6452	ug/kg	40-140	50	40-140	50	50			
2-Chloronaphthalene	91-58-7	167	16.5664	ug/kg	40-140	50	40-140	50	50			
1,2-Dichlorobenzene	95-50-1	167	29.9932	ug/kg	40-140	50	40-140	50	50			
1,3-Dichlorobenzene	541-73-1	167	28.724	ug/kg	40-140	50	40-140	50	50			
1,4-Dichlorobenzene	106-46-7	167	29.1582	ug/kg	28-104	50	28-104	50	50			
3,3'-Dichlorobenzidine	91-94-1	167	44.422	ug/kg	40-140	50	40-140	50	50			
2,4-Dinitrotoluene	121-14-2	167	33.4	ug/kg	40-132	50	40-132	50	50			
2,6-Dinitrotoluene	606-20-2	167	28.6572	ug/kg	40-140	50	40-140	50	50			
Azobenzene	122-66-7	167	16.032	ug/kg	40-140	50	40-140	50	50			
Fluoranthene	206-44-0	100.2	19.1716	ug/kg	40-140	50	40-140	50	50			
4-Chlorophenyl phenyl ether	7005-72-3	167	17.869	ug/kg	40-140	50	40-140	50	50			
4-Bromophenyl phenyl ether	101-55-3	167	25.4842	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroisopropyl)ether	108-60-1	200.4	28.5236	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroethoxy)methane	111-91-1	180.36	16.7334	ug/kg	40-117	50	40-117	50	50			
Hexachlorobutadiene	87-68-3	167	24.4488	ug/kg	40-140	50	40-140	50	50			
Hexachlorocyclopentadiene	77-47-4	477.62	151.302	ug/kg	40-140	50	40-140	50	50			
Hexachloroethane	67-72-1	133.6	27.0206	ug/kg	40-140	50	40-140	50	50			
Isophorone	78-59-1	150.3	21.6766	ug/kg	40-140	50	40-140	50	50			
Naphthalene	91-20-3	167	20.3406	ug/kg	40-140	50	40-140	50	50			
Nitrobenzene	98-95-3	150.3	24.716	ug/kg	40-140	50	40-140	50	50			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	133.6	19.0046	ug/kg	36-157	50	36-157	50	50			
n-Nitrosodi-n-propylamine	621-64-7	167	25.7848	ug/kg	32-121	50	32-121	50	50			
Bis(2-Ethylhexyl)phthalate	117-81-7	167	57.782	ug/kg	40-140	50	40-140	50	50			
Butyl benzyl phthalate	85-68-7	167	42.084	ug/kg	40-140	50	40-140	50	50			
Di-n-butylphthalate	84-74-2	167	31.6632	ug/kg	40-140	50	40-140	50	50			
Di-n-octylphthalate	117-84-0	167	56.78	ug/kg	40-140	50	40-140	50	50			
Diethyl phthalate	84-66-2	167	15.4642	ug/kg	40-140	50	40-140	50	50			
Dimethyl phthalate	131-11-3	167	35.07	ug/kg	40-140	50	40-140	50	50			
Benzo(a)anthracene	56-55-3	100.2	18.8042	ug/kg	40-140	50	40-140	50	50			
Benzo(a)pyrene	50-32-8	133.6	40.748	ug/kg	40-140	50	40-140	50	50			
Benzo(b)fluoranthene	205-99-2	100.2	28.1228	ug/kg	40-140	50	40-140	50	50			
Benzo(k)fluoranthene	207-08-9	100.2	26.72	ug/kg	40-140	50	40-140	50	50			
Chrysene	218-01-9	100.2	17.368	ug/kg	40-140	50	40-140	50	50			
Acenaphthylene	208-96-8	133.6	25.7848	ug/kg	40-140	50	40-140	50	50			
Anthracene	120-12-7	100.2	32.565	ug/kg	40-140	50	40-140	50	50			
Benzo(ghi)perylene	191-24-2	133.6	19.6392	ug/kg	40-140	50	40-140	50	50			
Fluorene	86-73-7	167	16.2324	ug/kg	40-140	50	40-140	50	50			
Phenanthrene	85-01-8	100.2	20.3072	ug/kg	40-140	50	40-140	50	50			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
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ABN Extractables - EPA 8270E (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibenzo(a,h)anthracene	53-70-3	100.2	19.3052	ug/kg	40-140	50	40-140	50	50			
Indeno(1,2,3-cd)Pyrene	193-39-5	133.6	23.2798	ug/kg	40-140	50	40-140	50	50			
Pyrene	129-00-0	100.2	16.5998	ug/kg	35-142	50	35-142	50	50			
Biphenyl	92-52-4	380.76	21.71	ug/kg	37-127	50	37-127	50	50			
Aniline	62-53-3	200.4	78.824	ug/kg	40-140	50	40-140	50	50			
4-Chloroaniline	106-47-8	167	30.394	ug/kg	40-140	50	40-140	50	50			
1-Methylnaphthalene	90-12-0	167	19.372	ug/kg	26-130	50	26-130	50	50			
2-Nitroaniline	88-74-4	167	32.1976	ug/kg	47-134	50	47-134	50	50			
3-Nitroaniline	99-09-2	167	31.4962	ug/kg	26-129	50	26-129	50	50			
4-Nitroaniline	100-01-6	167	69.138	ug/kg	41-125	50	41-125	50	50			
Dibenzofuran	132-64-9	167	15.7982	ug/kg	40-140	50	40-140	50	50			
2-Methylnaphthalene	91-57-6	200.4	20.1736	ug/kg	40-140	50	40-140	50	50			
n-Nitrosodimethylamine	62-75-9	334	32.064	ug/kg	22-100	50	22-100	50	50			
2,4,6-Trichlorophenol	88-06-2	100.2	31.6632	ug/kg	30-130	50	30-130	50	50			
P-Chloro-M-Cresol	59-50-7	167	24.883	ug/kg	26-103	50	26-103	50	50			
2-Chlorophenol	95-57-8	167	19.7394	ug/kg	25-102	50	25-102	50	50			
2,4-Dichlorophenol	120-83-2	150.3	26.8536	ug/kg	30-130	50	30-130	50	50			
2,4-Dimethylphenol	105-67-9	167	55.11	ug/kg	30-130	50	30-130	50	50			
2-Nitrophenol	88-75-5	360.72	62.792	ug/kg	30-130	50	30-130	50	50			
4-Nitrophenol	100-02-7	233.8	68.136	ug/kg	11-114	50	11-114	50	50			
2,4-Dinitrophenol	51-28-5	801.6	77.822	ug/kg	4-130	50	4-130	50	50			
4,6-Dinitro-o-cresol	534-52-1	434.2	80.16	ug/kg	10-130	50	10-130	50	50			
Pentachlorophenol	87-86-5	133.6	36.74	ug/kg	17-109	50	17-109	50	50			
Phenol	108-95-2	167	25.217	ug/kg	26-90	50	26-90	50	50			
2-Methylphenol	95-48-7	167	25.885	ug/kg	30-130.	50	30-130.	50	50			
3-Methylphenol/4-Methylphenol	106-44-5	240.48	26.1522	ug/kg	30-130	50	30-130	50	50			
2,4,5-Trichlorophenol	95-95-4	167	31.9972	ug/kg	30-130	50	30-130	50	50			
Benzoic Acid	65-85-0	541.08	169.004	ug/kg	10-110	50	10-110	50	50			
Benzyl Alcohol	100-51-6	167	51.102	ug/kg	40-140	50	40-140	50	50			
Carbazole	86-74-8	167	16.2324	ug/kg	54-128	50	54-128	50	50			
Pyridine	110-86-1	180.36	63.46	ug/kg	10-93	50	10-93	50	50			
2-Fluorophenol	*367-12-4*									*25-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*30-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-136*		
4-Terphenyl-d14	*1718-51-0*									*18-120*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Semivolatile Sample Data

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 17:38
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-01	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 17:38
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-01	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 17:38
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-01	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 18:00
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-02	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 18:00
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-02	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 18:00
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-02	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 18:23
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-03	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 18:23
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-03	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 18:23
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-03	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
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Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 13:09
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-04	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 13:09
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-04	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 13:09
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-04	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 18:45
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-05	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 18:45
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-05	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 18:45
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-05	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 19:07
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-06	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 19:07
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-06	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 19:07
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-06	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 19:30
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-07	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 19:30
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-07	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 19:30
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-07	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 19:52
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-08	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 19:52
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-08	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 19:52
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-08	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 20:15
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-09	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 20:15
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-09	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 20:15
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-09	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-10	**Date Collected**	: 05/30/24 14:25
Client ID	: FB	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 21:39
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-10	**Analyst**	: GMR
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-10	**Date Collected**	: 05/30/24 14:25
Client ID	: FB	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 21:39
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-10	**Analyst**	: GMR
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-10	**Date Collected**	: 05/30/24 14:25
Client ID	: FB	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 21:39
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 30219-10	**Analyst**	: GMR
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1929069-1	**Date Collected**	: NA
Client ID	: WG1929069-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/05/24 01:48
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 929069-1	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1929069-1	**Date Collected**	: NA
Client ID	: WG1929069-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/05/24 01:48
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 929069-1	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1929069-1	**Date Collected**	: NA
Client ID	: WG1929069-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/05/24 01:48
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 929069-1	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-04.D
Acq On : 5 Jun 2024 1:09 pm
Operator : Dakota:sz
Sample : L2430219-04,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 06 16:37:57 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 13:28:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.810	152	25703	4.000	ug/ml		0.00
Standard Area 1 = 25549			Recovery = 100.60%				
27) IS2_1,4-Dichlorobenzen...	4.810	152	25703	4.000	ug/ml		0.00
Standard Area 3 = 24259			Recovery = 105.95%				
34) IS1_Naphthalene-d8	6.044	136	89943	4.000	ug/ml	#	0.00
Standard Area 1 = 92758			Recovery = 96.97%				
54) IS2_Naphthalene-d8	6.044	136	89943	4.000	ug/ml	#	0.00
Standard Area 3 = 86554			Recovery = 103.92%				
62) IS1_Acenaphthene-d10	7.747	164	57501	4.000	ug/ml		0.00
Standard Area 1 = 60587			Recovery = 94.91%				
82) IS2_Acenaphthene-d10	7.747	164	57501	4.000	ug/ml		0.00
Standard Area 3 = 57668			Recovery = 99.71%				
85) IS3_Acenaphthene-d10	7.747	164	57501	4.000	ug/ml		0.00
Standard Area 2 = 66116			Recovery = 86.97%				
87) IS1_Phenanthrene-d10	9.180	188	124105	4.000	ug/ml		0.00
Standard Area 1 = 137458			Recovery = 90.29%				
99) IS3_Phenanthrene-d10	9.180	188	124105	4.000	ug/ml		0.00
Standard Area 2 = 156367			Recovery = 79.37%				
103) IS1_Chrysene-d12	11.825	240	128887	4.000	ug/ml		0.00
Standard Area 1 = 145741			Recovery = 88.44%				
112) IS1_Perylene-d12	13.292	264	158158	4.000	ug/ml		0.00
Standard Area 1 = 171394			Recovery = 92.28%				
System Monitoring Compounds							
4) 2-Fluorophenol	3.545	112	20465	3.175	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 158.75%#				
7) Phenol-d6	4.484	99	21053	2.634	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 131.70%#				
19) Nitrobenzene-d5	5.348	82	13224	1.868	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 186.80%#				
45) 2-Fluorobiphenyl	7.110	172	40654	1.966	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 196.60%#				
78) 2,4,6-Tribromophenol	8.509	330	10214	3.807	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 190.35%#				
95) 4-Terphenyl-d14	10.762	244	65055	2.094	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 209.40%#				

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-04.D
Acq On : 5 Jun 2024 1:09 pm
Operator : Dakota:sz
Sample : L2430219-04,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 06 16:37:57 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 13:28:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.	d	
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.		
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
68) 4-Nitrophenol	0.000		0	N.D.		
70) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-04.D
Acq On : 5 Jun 2024 1:09 pm
Operator : Dakota:sz
Sample : L2430219-04,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 06 16:37:57 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 13:28:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) NDPA/DPA	0.000		0		N.D.	
79) 4-Bromophenyl phenyl e...	0.000		0		N.D.	
86) Atrazine	0.000		0		N.D.	
90) Carbazole	0.000		0		N.D.	
91) Di-n-butylphthalate	0.000		0		N.D.	
96) Butyl benzyl phthalate	0.000		0		N.D.	
105) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
107) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
108) Di-n-octylphthalate	0.000		0		N.D.	d

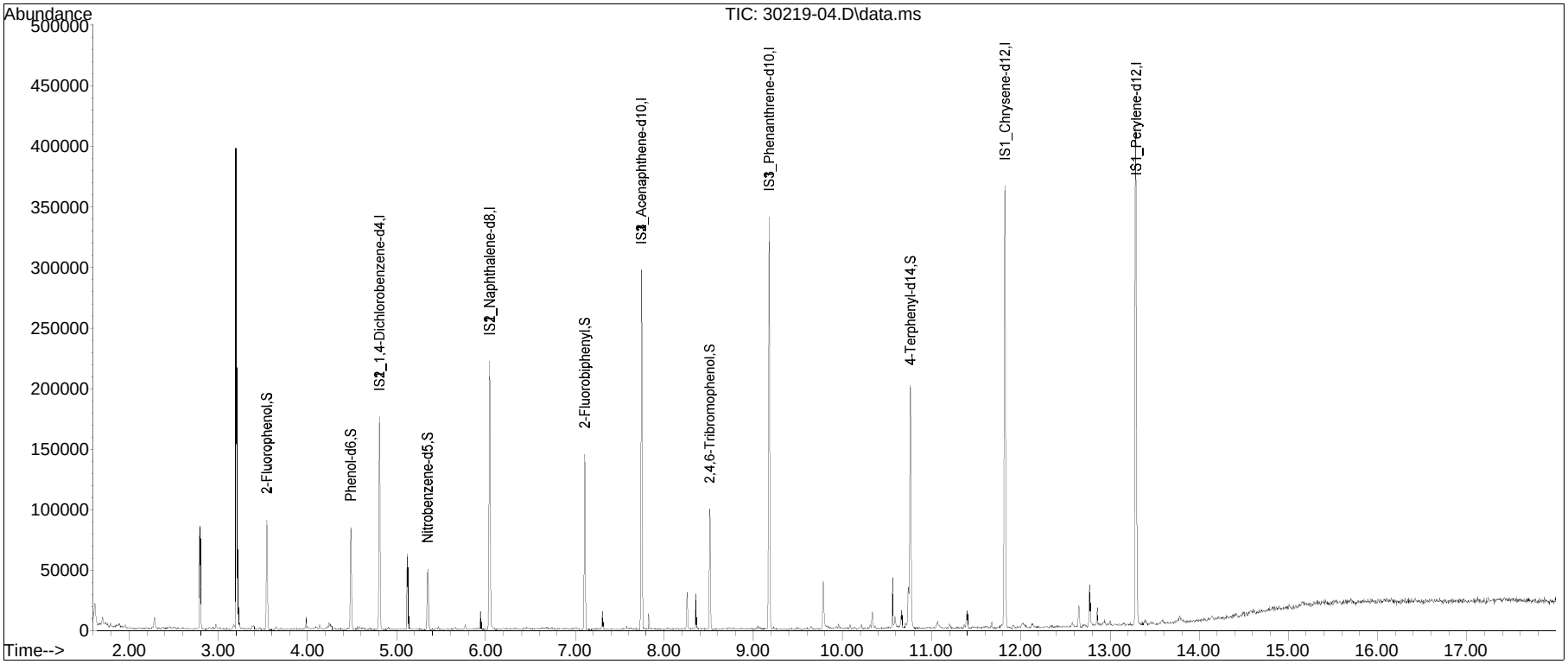
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-04.D
Acq On : 5 Jun 2024 1:09 pm
Operator : Dakota:sz
Sample : L2430219-04,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 06 16:37:57 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 13:28:34 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90605.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240605RVT\	QMethod	: FS240531RVTDakota.m
Data File	: 30219-04.D	Operator	: Dakota:sz
Date Inj'd	: 6/5/2024 1:09 pm	Instrument	: Dakota
Sample	: L2430219-04,32,,gmr	Quant Date	: 6/5/2024 1:28 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-01.D
Acq On : 5 Jun 2024 5:38 pm
Operator : Dakota:sz
Sample : L2430219-01,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 06 16:36:28 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:57:15 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.810	152	25557	4.000	ug/ml	0.00
Standard Area 1 = 25549			Recovery = 100.03%			
27) IS2_1,4-Dichlorobenzen...	4.810	152	25557	4.000	ug/ml	0.00
Standard Area 3 = 24259			Recovery = 105.35%			
34) IS1_Naphthalene-d8	6.044	136	94012	4.000	ug/ml	0.00
Standard Area 1 = 92758			Recovery = 101.35%			
54) IS2_Naphthalene-d8	6.044	136	94012	4.000	ug/ml	0.00
Standard Area 3 = 86554			Recovery = 108.62%			
62) IS1_Acenaphthene-d10	7.747	164	62775	4.000	ug/ml	0.00
Standard Area 1 = 60587			Recovery = 103.61%			
82) IS2_Acenaphthene-d10	7.747	164	62775	4.000	ug/ml	0.00
Standard Area 3 = 57668			Recovery = 108.86%			
85) IS3_Acenaphthene-d10	7.747	164	62775	4.000	ug/ml	0.00
Standard Area 2 = 66116			Recovery = 94.95%			
87) IS1_Phenanthrene-d10	9.180	188	145111	4.000	ug/ml	0.00
Standard Area 1 = 137458			Recovery = 105.57%			
99) IS3_Phenanthrene-d10	9.180	188	145111	4.000	ug/ml	0.00
Standard Area 2 = 156367			Recovery = 92.80%			
103) IS1_Chrysene-d12	11.825	240	159096	4.000	ug/ml	0.00
Standard Area 1 = 145741			Recovery = 109.16%			
112) IS1_Perylene-d12	13.295	264	182112	4.000	ug/ml	0.00
Standard Area 1 = 171394			Recovery = 106.25%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.548	112	22128	3.453	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 172.65%#			
7) Phenol-d6	4.487	99	23550	2.963	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 148.15%#			
19) Nitrobenzene-d5	5.351	82	13884	1.973	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 197.30%#			
45) 2-Fluorobiphenyl	7.110	172	44285	2.049	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 204.90%#			
78) 2,4,6-Tribromophenol	8.515	330	15234	5.201	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 260.05%#			
95) 4-Terphenyl-d14	10.762	244	81954	2.256	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 225.60%#			

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-01.D
Acq On : 5 Jun 2024 5:38 pm
Operator : Dakota:sz
Sample : L2430219-01,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 06 16:36:28 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:57:15 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	4.502	94	1275	0.143	ug/ml#	1
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.	d	
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.		
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.	d	
67) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
68) 4-Nitrophenol	0.000		0	N.D.		
70) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-01.D
Acq On : 5 Jun 2024 5:38 pm
Operator : Dakota:sz
Sample : L2430219-01,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 06 16:36:28 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:57:15 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) NDPA/DPA	0.000		0	N.D.	d	
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
86) Atrazine	0.000		0	N.D.		
90) Carbazole	0.000		0	N.D.	d	
91) Di-n-butylphthalate	0.000		0	N.D.	d	
96) Butyl benzyl phthalate	0.000		0	N.D.	d	
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Bis(2-ethylhexyl)phtha...	11.921	149	5730	0.216	ug/ml#	86
108) Di-n-octylphthalate	0.000		0	N.D.	d	

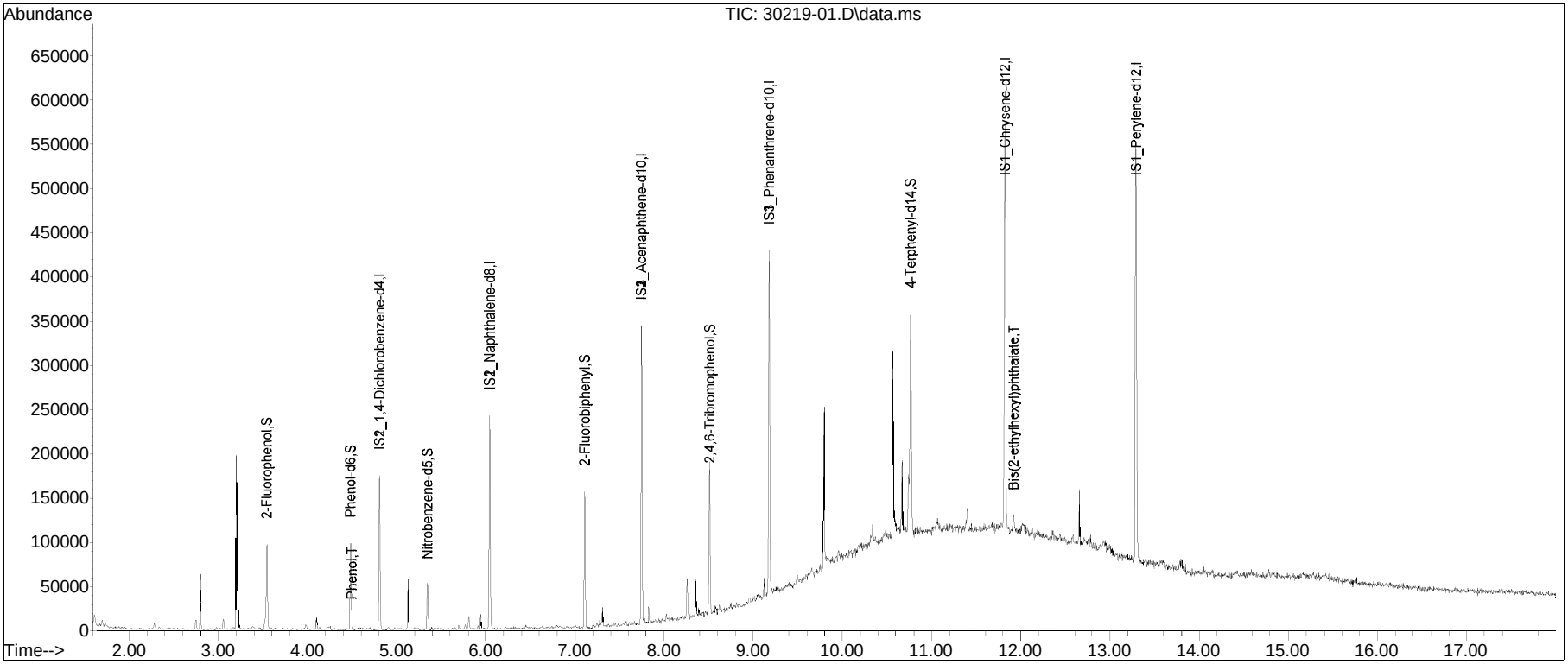
(#) = qualifier out of range (m) = manual integration (+) = signals summed

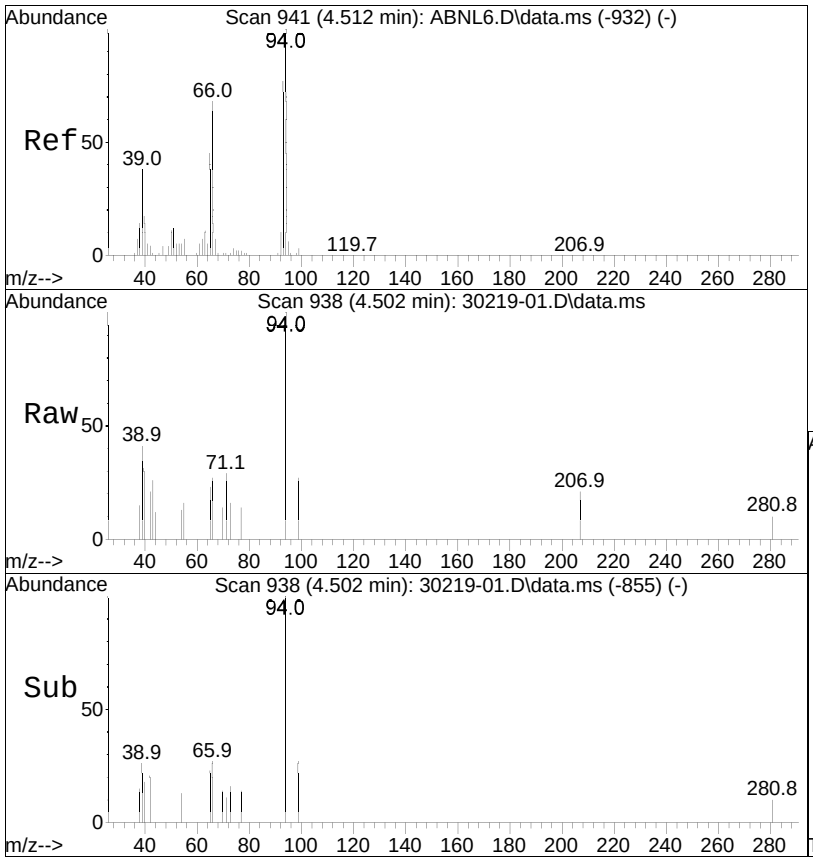
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-01.D
Acq On : 5 Jun 2024 5:38 pm
Operator : Dakota:sz
Sample : L2430219-01,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 06 16:36:28 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:57:15 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90605.D•

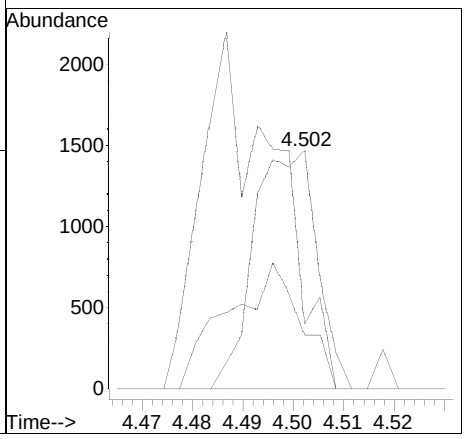


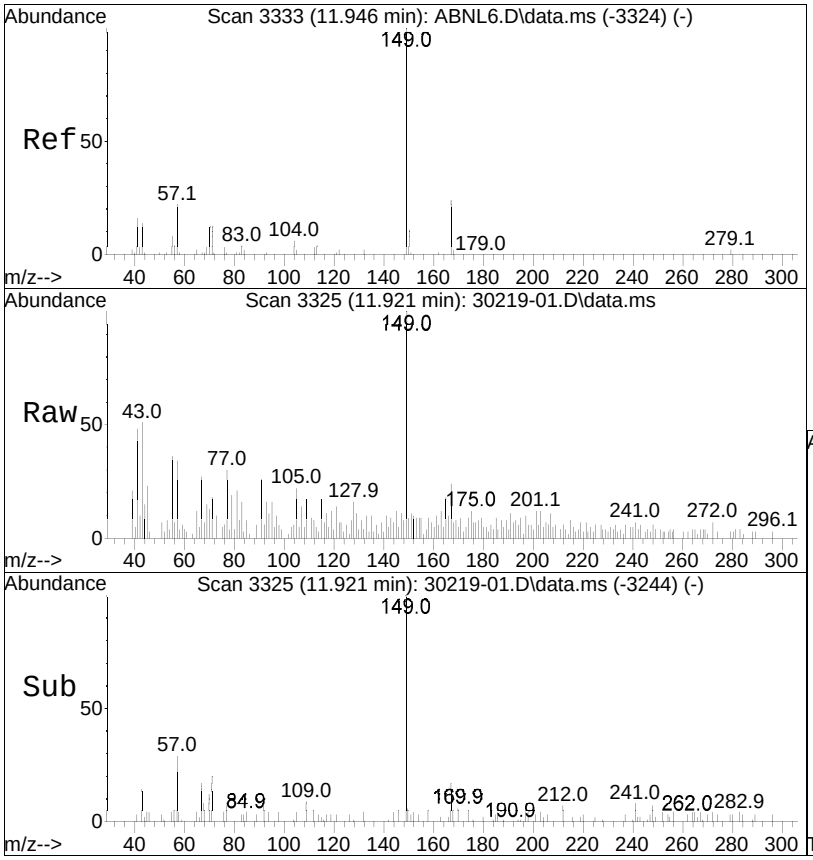


#8
Phenol
Concen: 0.14 ug/ml
RT: 4.502 min Scan# 938
Delta R.T. 0.009 min
Lab File: 30219-01.D
Acq: 5 Jun 2024 5:38 pm

Tgt Ion: 94 Resp: 1275

Ion	Ratio	Lower	Upper
94	100		
65	61.6	26.0	39.0#
66	175.5	33.8	50.8#

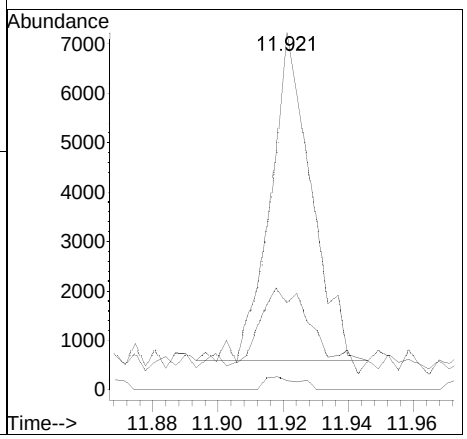




#107
Bis(2-ethylhexyl)phthalate
Concen: 0.22 ug/ml
RT: 11.921 min Scan# 3325
Delta R.T. 0.003 min
Lab File: 30219-01.D
Acq: 5 Jun 2024 5:38 pm

Tgt Ion:149 Resp: 5730

Ion	Ratio	Lower	Upper
149	100		
167	35.0	22.1	33.1#
279	0.0	3.0	4.4#



Manual Integration Report

Data Path	: I:\8270\Dakota\240605RVT\	QMethod	: FS240531RVTDakota.m
Data File	: 30219-01.D	Operator	: Dakota:sz
Date Inj'd	: 6/5/2024 5:38 pm	Instrument	: Dakota
Sample	: L2430219-01,32,,gmr	Quant Date	: 6/5/2024 5:57 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-02.D
Acq On : 5 Jun 2024 6:00 pm
Operator : Dakota:sz
Sample : L2430219-02,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 06 16:36:58 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:19:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.810	152	24155	4.000	ug/ml	0.00
Standard Area 1 = 25549			Recovery = 94.54%			
27) IS2_1,4-Dichlorobenzen...	4.810	152	24155	4.000	ug/ml	0.00
Standard Area 3 = 24259			Recovery = 99.57%			
34) IS1_Naphthalene-d8	6.044	136	89861	4.000	ug/ml	0.00
Standard Area 1 = 92758			Recovery = 96.88%			
54) IS2_Naphthalene-d8	6.044	136	89861	4.000	ug/ml	0.00
Standard Area 3 = 86554			Recovery = 103.82%			
62) IS1_Acenaphthene-d10	7.747	164	61073	4.000	ug/ml	0.00
Standard Area 1 = 60587			Recovery = 100.80%			
82) IS2_Acenaphthene-d10	7.747	164	61073	4.000	ug/ml	0.00
Standard Area 3 = 57668			Recovery = 105.90%			
85) IS3_Acenaphthene-d10	7.747	164	61073	4.000	ug/ml	0.00
Standard Area 2 = 66116			Recovery = 92.37%			
87) IS1_Phenanthrene-d10	9.180	188	137783	4.000	ug/ml	0.00
Standard Area 1 = 137458			Recovery = 100.24%			
99) IS3_Phenanthrene-d10	9.180	188	137783	4.000	ug/ml	0.00
Standard Area 2 = 156367			Recovery = 88.12%			
103) IS1_Chrysene-d12	11.822	240	150909	4.000	ug/ml	0.00
Standard Area 1 = 145741			Recovery = 103.55%			
112) IS1_Perylene-d12	13.295	264	180857	4.000	ug/ml	0.00
Standard Area 1 = 171394			Recovery = 105.52%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.548	112	15984	2.639	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 131.95%#			
7) Phenol-d6	4.487	99	18920	2.519	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 125.95%#			
19) Nitrobenzene-d5	5.348	82	11656	1.752	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 175.20%#			
45) 2-Fluorobiphenyl	7.110	172	37221	1.802	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 180.20%#			
78) 2,4,6-Tribromophenol	8.512	330	12129	4.256	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 212.80%#			
95) 4-Terphenyl-d14	10.759	244	77768	2.255	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 225.50%#			

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-02.D
Acq On : 5 Jun 2024 6:00 pm
Operator : Dakota:sz
Sample : L2430219-02,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 06 16:36:58 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:19:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.		d
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		d
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.		d
52) 2,6-Dinitrotoluene	0.000		0	N.D.		d
59) Caprolactam	0.000		0	N.D.		
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.		d
68) 4-Nitrophenol	0.000		0	N.D.		
70) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-02.D
Acq On : 5 Jun 2024 6:00 pm
Operator : Dakota:sz
Sample : L2430219-02,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 06 16:36:58 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:19:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) NDPA/DPA	0.000		0		N.D.	
79) 4-Bromophenyl phenyl e...	0.000		0		N.D.	
86) Atrazine	0.000		0		N.D.	
90) Carbazole	0.000		0		N.D.	
91) Di-n-butylphthalate	0.000		0		N.D.	d
96) Butyl benzyl phthalate	0.000		0		N.D.	
105) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
107) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
108) Di-n-octylphthalate	0.000		0		N.D.	d

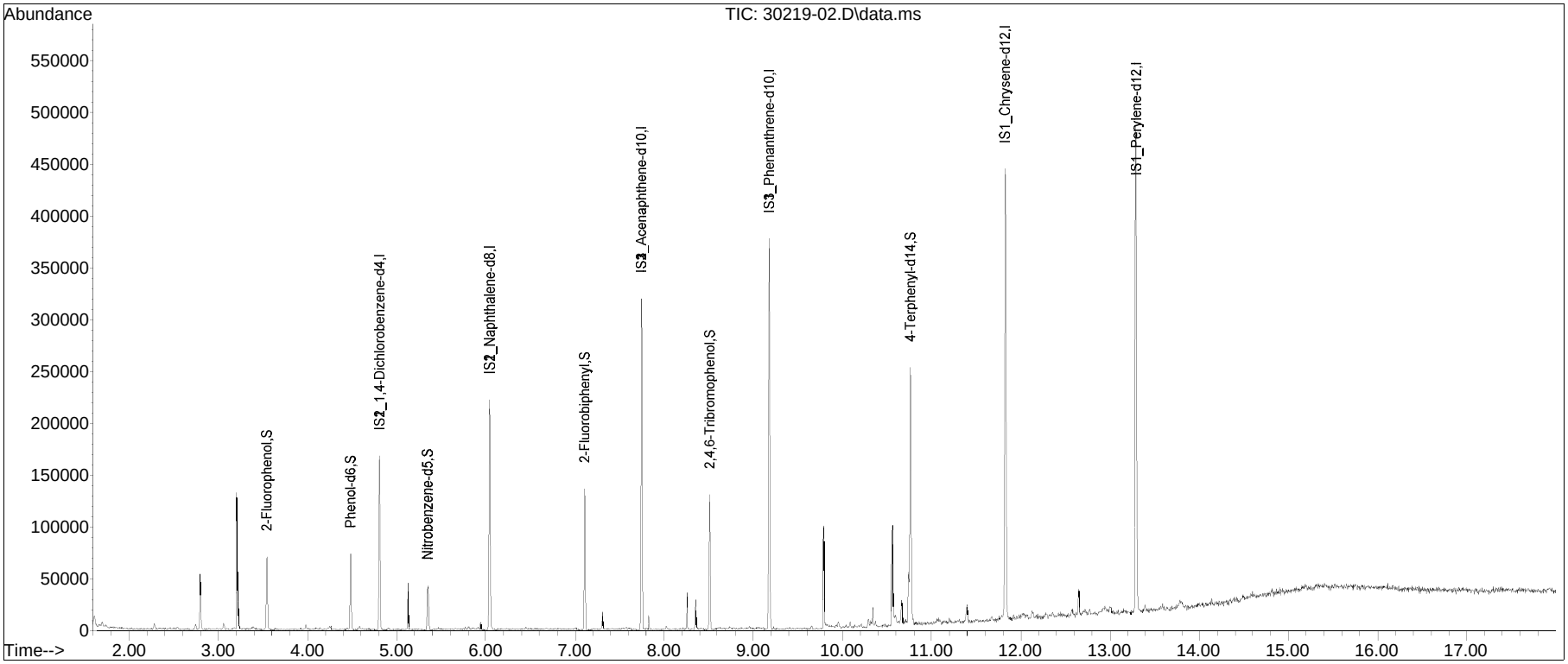
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-02.D
Acq On : 5 Jun 2024 6:00 pm
Operator : Dakota:sz
Sample : L2430219-02,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 06 16:36:58 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:19:32 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90605.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240605RVT\	QMethod	: FS240531RVTDakota.m
Data File	: 30219-02.D	Operator	: Dakota:sz
Date Inj'd	: 6/5/2024 6:00 pm	Instrument	: Dakota
Sample	: L2430219-02,32,,gmr	Quant Date	: 6/5/2024 6:19 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-03.D
Acq On : 5 Jun 2024 6:23 pm
Operator : Dakota:sz
Sample : L2430219-03,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 06 16:37:26 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:41:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.810	152	22831	4.000	ug/ml	0.00
Standard Area 1 = 25549			Recovery = 89.36%			
27) IS2_1,4-Dichlorobenzen...	4.810	152	22831	4.000	ug/ml	0.00
Standard Area 3 = 24259			Recovery = 94.11%			
34) IS1_Naphthalene-d8	6.044	136	82101	4.000	ug/ml	0.00
Standard Area 1 = 92758			Recovery = 88.51%			
54) IS2_Naphthalene-d8	6.044	136	82101	4.000	ug/ml	0.00
Standard Area 3 = 86554			Recovery = 94.86%			
62) IS1_Acenaphthene-d10	7.747	164	53188	4.000	ug/ml	0.00
Standard Area 1 = 60587			Recovery = 87.79%			
82) IS2_Acenaphthene-d10	7.747	164	53188	4.000	ug/ml	0.00
Standard Area 3 = 57668			Recovery = 92.23%			
85) IS3_Acenaphthene-d10	7.747	164	53188	4.000	ug/ml	0.00
Standard Area 2 = 66116			Recovery = 80.45%			
87) IS1_Phenanthrene-d10	9.180	188	122336	4.000	ug/ml	0.00
Standard Area 1 = 137458			Recovery = 89.00%			
99) IS3_Phenanthrene-d10	9.180	188	122336	4.000	ug/ml	0.00
Standard Area 2 = 156367			Recovery = 78.24%			
103) IS1_Chrysene-d12	11.825	240	126961	4.000	ug/ml	0.00
Standard Area 1 = 145741			Recovery = 87.11%			
112) IS1_Perylene-d12	13.295	264	155546	4.000	ug/ml	0.00
Standard Area 1 = 171394			Recovery = 90.75%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.545	112	19846	3.466	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 173.30%#			
7) Phenol-d6	4.487	99	20124	2.834	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 141.70%#			
19) Nitrobenzene-d5	5.348	82	13262	2.109	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 210.90%#			
45) 2-Fluorobiphenyl	7.110	172	37730	1.999	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 199.90%#			
78) 2,4,6-Tribromophenol	8.512	330	11612	4.679	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 233.95%#			
95) 4-Terphenyl-d14	10.759	244	66039	2.156	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 215.60%#			

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-03.D
Acq On : 5 Jun 2024 6:23 pm
Operator : Dakota:sz
Sample : L2430219-03,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 06 16:37:26 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:41:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.	d	
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.		
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
68) 4-Nitrophenol	0.000		0	N.D.		
70) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-03.D
Acq On : 5 Jun 2024 6:23 pm
Operator : Dakota:sz
Sample : L2430219-03,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 06 16:37:26 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:41:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) NDPA/DPA	0.000		0		N.D.	
79) 4-Bromophenyl phenyl e...	0.000		0		N.D.	
86) Atrazine	0.000		0		N.D.	
90) Carbazole	0.000		0		N.D.	
91) Di-n-butylphthalate	0.000		0		N.D.	d
96) Butyl benzyl phthalate	0.000		0		N.D.	
105) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
107) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
108) Di-n-octylphthalate	0.000		0		N.D.	d

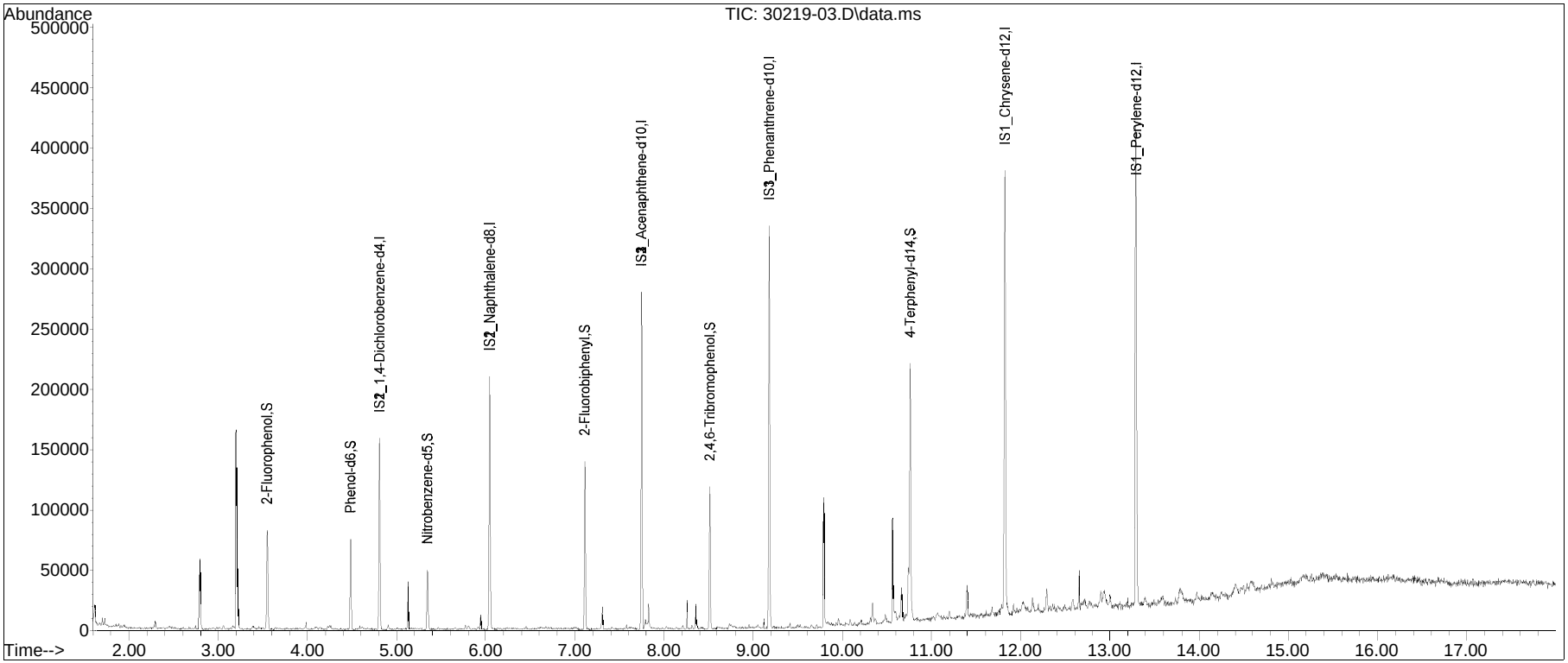
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-03.D
Acq On : 5 Jun 2024 6:23 pm
Operator : Dakota:sz
Sample : L2430219-03,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 06 16:37:26 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:41:52 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90605.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240605RVT\	QMethod	: FS240531RVTDakota.m
Data File	: 30219-03.D	Operator	: Dakota:sz
Date Inj'd	: 6/5/2024 6:23 pm	Instrument	: Dakota
Sample	: L2430219-03,32,,gmr	Quant Date	: 6/5/2024 6:41 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-05.D
Acq On : 5 Jun 2024 6:45 pm
Operator : Dakota:sz
Sample : L2430219-05,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 06 16:39:31 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 19:04:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.810	152	27391	4.000	ug/ml		0.00
Standard Area 1 = 25549			Recovery = 107.21%				
27) IS2_1,4-Dichlorobenzen...	4.810	152	27391	4.000	ug/ml		0.00
Standard Area 3 = 24259			Recovery = 112.91%				
34) IS1_Naphthalene-d8	6.044	136	96772	4.000	ug/ml	#	0.00
Standard Area 1 = 92758			Recovery = 104.33%				
54) IS2_Naphthalene-d8	6.044	136	96772	4.000	ug/ml	#	0.00
Standard Area 3 = 86554			Recovery = 111.81%				
62) IS1_Acenaphthene-d10	7.750	164	63421	4.000	ug/ml		0.00
Standard Area 1 = 60587			Recovery = 104.68%				
82) IS2_Acenaphthene-d10	7.750	164	63421	4.000	ug/ml		0.00
Standard Area 3 = 57668			Recovery = 109.98%				
85) IS3_Acenaphthene-d10	7.750	164	63421	4.000	ug/ml		0.00
Standard Area 2 = 66116			Recovery = 95.92%				
87) IS1_Phenanthrene-d10	9.180	188	141298	4.000	ug/ml		0.00
Standard Area 1 = 137458			Recovery = 102.79%				
99) IS3_Phenanthrene-d10	9.180	188	141298	4.000	ug/ml		0.00
Standard Area 2 = 156367			Recovery = 90.36%				
103) IS1_Chrysene-d12	11.825	240	148705	4.000	ug/ml		0.00
Standard Area 1 = 145741			Recovery = 102.03%				
112) IS1_Perylene-d12	13.292	264	178819	4.000	ug/ml		0.00
Standard Area 1 = 171394			Recovery = 104.33%				
System Monitoring Compounds							
4) 2-Fluorophenol	3.551	112	21864	3.183	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 159.15%#				
7) Phenol-d6	4.487	99	23295	2.735	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 136.75%#				
19) Nitrobenzene-d5	5.348	82	13262	1.758	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 175.80%#				
45) 2-Fluorobiphenyl	7.110	172	39257	1.765	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 176.50%#				
78) 2,4,6-Tribromophenol	8.512	330	12404	4.191	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 209.55%#				
95) 4-Terphenyl-d14	10.759	244	70193	1.985	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 198.50%#				

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-05.D
Acq On : 5 Jun 2024 6:45 pm
Operator : Dakota:sz
Sample : L2430219-05,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 06 16:39:31 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 19:04:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.	d	
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.		
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.	d	
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.	d	
67) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
68) 4-Nitrophenol	0.000		0	N.D.		
70) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-05.D
Acq On : 5 Jun 2024 6:45 pm
Operator : Dakota:sz
Sample : L2430219-05,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 06 16:39:31 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 19:04:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) NDPA/DPA	0.000		0	N.D.		
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
86) Atrazine	0.000		0	N.D.		
90) Carbazole	0.000		0	N.D. d		
91) Di-n-butylphthalate	0.000		0	N.D. d		
96) Butyl benzyl phthalate	0.000		0	N.D.		
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Bis(2-ethylhexyl)phtha...	11.924	149	2372	0.096	ug/ml#	93
108) Di-n-octylphthalate	0.000		0	N.D. d		

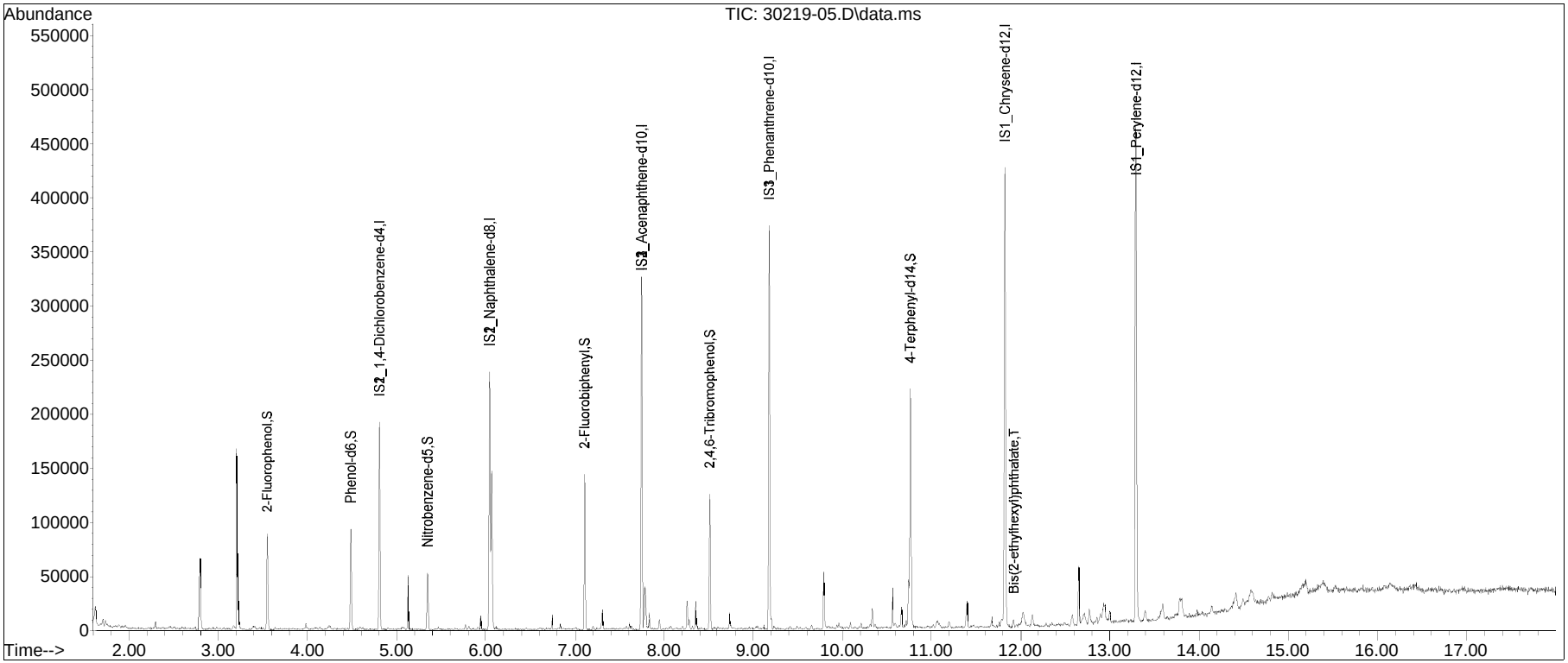
(#) = qualifier out of range (m) = manual integration (+) = signals summed

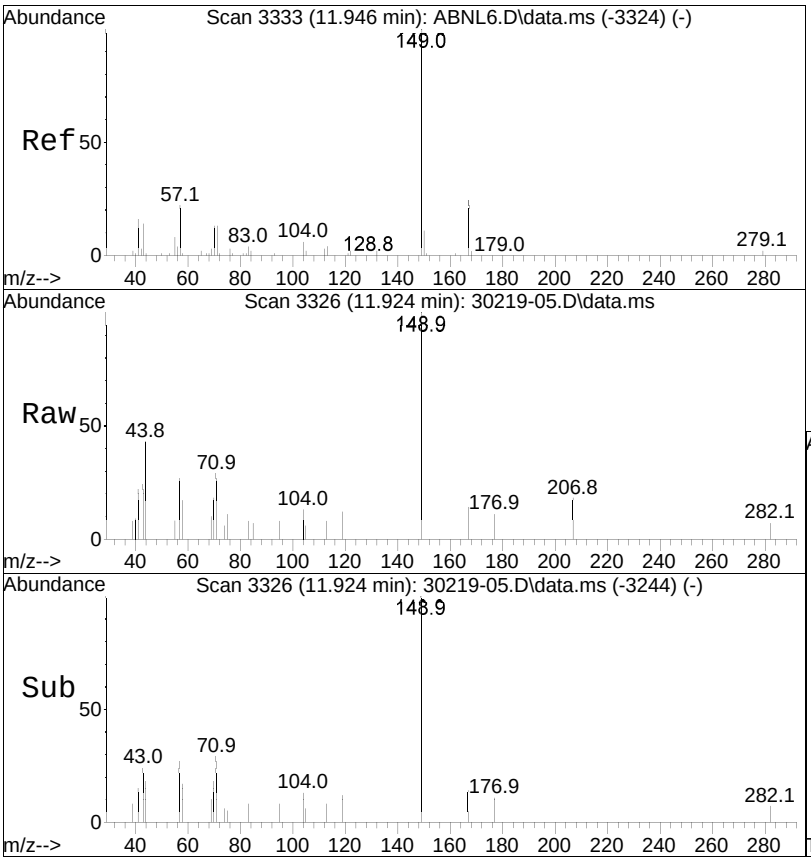
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-05.D
Acq On : 5 Jun 2024 6:45 pm
Operator : Dakota:sz
Sample : L2430219-05,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 06 16:39:31 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 19:04:43 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90605.D•

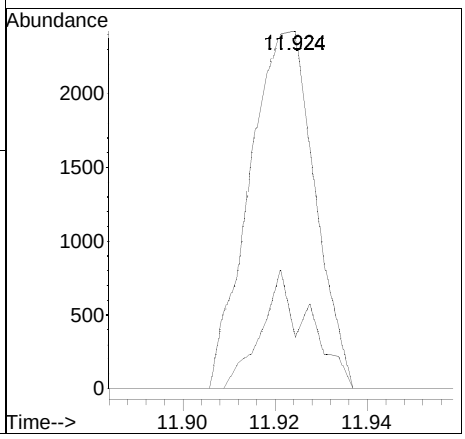




#107
Bis(2-ethylhexyl)phthalate
Concen: 0.10 ug/ml
RT: 11.924 min Scan# 3326
Delta R.T. 0.006 min
Lab File: 30219-05.D
Acq: 5 Jun 2024 6:45 pm

Tgt Ion:149 Resp: 2372

Ion	Ratio	Lower	Upper
149	100		
167	24.1	22.1	33.1
279	0.0	3.0	4.4#



Manual Integration Report

Data Path	: I:\8270\Dakota\240605RVT\	QMethod	: FS240531RVTDakota.m
Data File	: 30219-05.D	Operator	: Dakota:sz
Date Inj'd	: 6/5/2024 6:45 pm	Instrument	: Dakota
Sample	: L2430219-05,32,,gmr	Quant Date	: 6/5/2024 7:04 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-06.D
Acq On : 5 Jun 2024 7:07 pm
Operator : Dakota:sz
Sample : L2430219-06,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 06 16:40:16 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 19:26:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.810	152	26607	4.000	ug/ml	0.00
Standard Area 1 = 25549			Recovery = 104.14%			
27) IS2_1,4-Dichlorobenzen...	4.810	152	26607	4.000	ug/ml	0.00
Standard Area 3 = 24259			Recovery = 109.68%			
34) IS1_Naphthalene-d8	6.044	136	96926	4.000	ug/ml	0.00
Standard Area 1 = 92758			Recovery = 104.49%			
54) IS2_Naphthalene-d8	6.044	136	96926	4.000	ug/ml	0.00
Standard Area 3 = 86554			Recovery = 111.98%			
62) IS1_Acenaphthene-d10	7.747	164	64575	4.000	ug/ml	0.00
Standard Area 1 = 60587			Recovery = 106.58%			
82) IS2_Acenaphthene-d10	7.747	164	64575	4.000	ug/ml	0.00
Standard Area 3 = 57668			Recovery = 111.98%			
85) IS3_Acenaphthene-d10	7.747	164	64575	4.000	ug/ml	0.00
Standard Area 2 = 66116			Recovery = 97.67%			
87) IS1_Phenanthrene-d10	9.180	188	145689	4.000	ug/ml	0.00
Standard Area 1 = 137458			Recovery = 105.99%			
99) IS3_Phenanthrene-d10	9.180	188	145689	4.000	ug/ml	0.00
Standard Area 2 = 156367			Recovery = 93.17%			
103) IS1_Chrysene-d12	11.825	240	152721	4.000	ug/ml	# 0.00
Standard Area 1 = 145741			Recovery = 104.79%			
112) IS1_Perylene-d12	13.295	264	177270	4.000	ug/ml	0.00
Standard Area 1 = 171394			Recovery = 103.43%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.548	112	22763	3.412	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 170.60%#			
7) Phenol-d6	4.487	99	23646	2.858	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 142.90%#			
19) Nitrobenzene-d5	5.351	82	14491	1.978	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 197.80%#			
45) 2-Fluorobiphenyl	7.110	172	43245	1.941	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 194.10%#			
78) 2,4,6-Tribromophenol	8.512	330	14280	4.739	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 236.95%#			
95) 4-Terphenyl-d14	10.759	244	78540	2.154	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 215.40%#			

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-06.D
Acq On : 5 Jun 2024 7:07 pm
Operator : Dakota:sz
Sample : L2430219-06,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 06 16:40:16 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 19:26:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.	d	
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.		
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.	d	
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
68) 4-Nitrophenol	0.000		0	N.D.		
70) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.	d	
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-06.D
Acq On : 5 Jun 2024 7:07 pm
Operator : Dakota:sz
Sample : L2430219-06,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 06 16:40:16 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 19:26:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) NDPA/DPA	0.000		0	N.D.		
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
86) Atrazine	0.000		0	N.D.		
90) Carbazole	0.000		0	N.D.		
91) Di-n-butylphthalate	0.000		0	N.D. d		
96) Butyl benzyl phthalate	0.000		0	N.D.		
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Bis(2-ethylhexyl)phtha...	11.918	149	3199	0.126	ug/ml#	86
108) Di-n-octylphthalate	0.000		0	N.D. d		

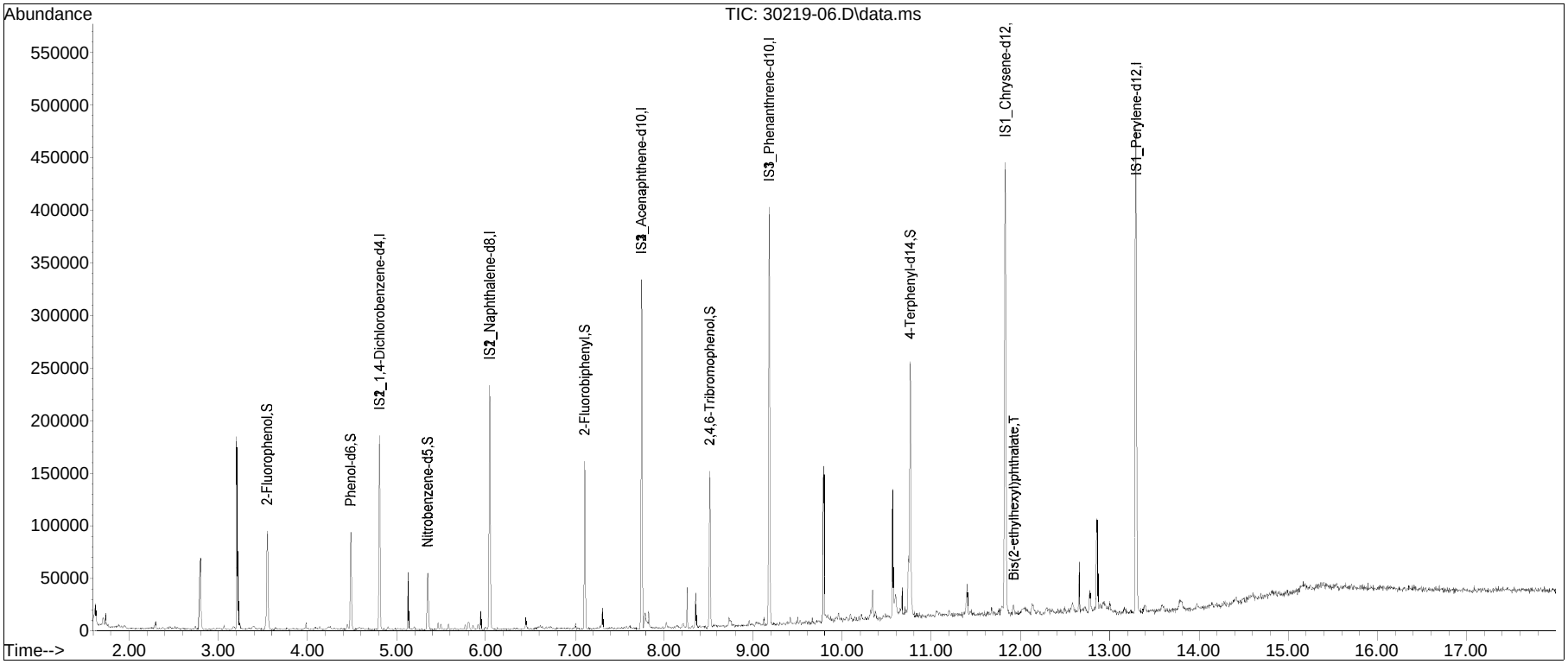
(#) = qualifier out of range (m) = manual integration (+) = signals summed

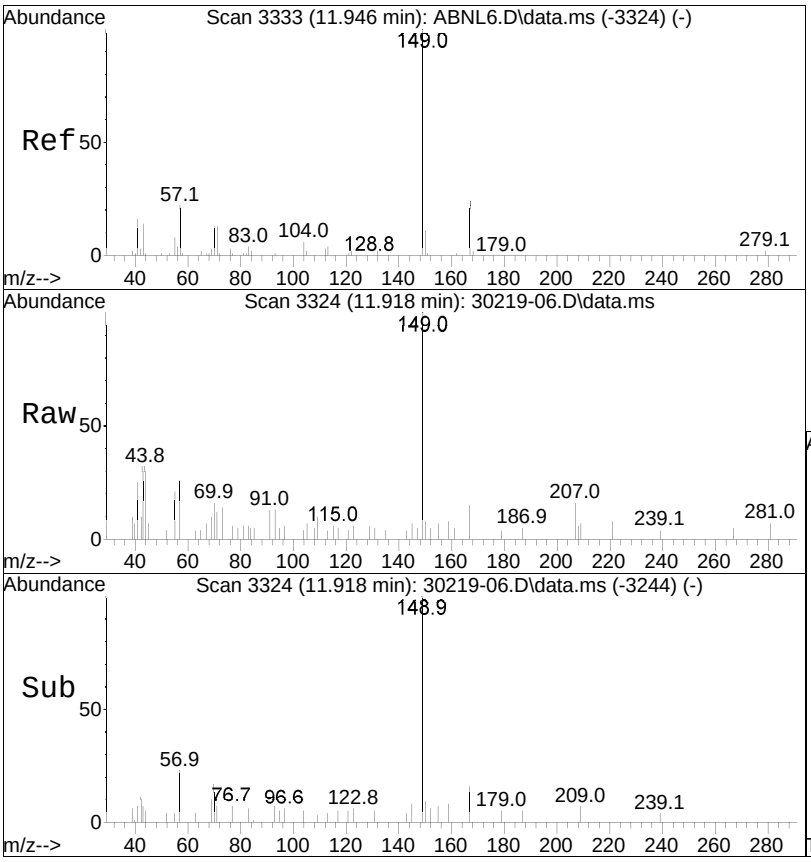
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-06.D
Acq On : 5 Jun 2024 7:07 pm
Operator : Dakota:sz
Sample : L2430219-06,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 06 16:40:16 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 19:26:43 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90605.D•

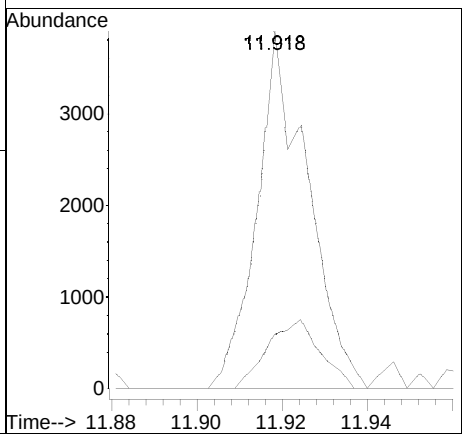




#107
Bis(2-ethylhexyl)phthalate
Concen: 0.13 ug/ml
RT: 11.918 min Scan# 3324
Delta R.T. 0.000 min
Lab File: 30219-06.D
Acq: 5 Jun 2024 7:07 pm

Tgt Ion:149 Resp: 3199

Ion	Ratio	Lower	Upper
149	100		
167	20.2	22.1	33.1#
279	0.0	3.0	4.4#



Manual Integration Report

Data Path	: I:\8270\Dakota\240605RVT\	QMethod	: FS240531RVTDakota.m
Data File	: 30219-06.D	Operator	: Dakota:sz
Date Inj'd	: 6/5/2024 7:07 pm	Instrument	: Dakota
Sample	: L2430219-06,32,,gmr	Quant Date	: 6/5/2024 7:26 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-07.D
Acq On : 5 Jun 2024 7:30 pm
Operator : Dakota:sz
Sample : L2430219-07,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 06 16:49:04 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 19:49:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.807	152	27579	4.000	ug/ml		0.00
Standard Area 1 = 25549			Recovery = 107.95%				
27) IS2_1,4-Dichlorobenzen...	4.807	152	27579	4.000	ug/ml		0.00
Standard Area 3 = 24259			Recovery = 113.69%				
34) IS1_Naphthalene-d8	6.044	136	98684	4.000	ug/ml	#	0.00
Standard Area 1 = 92758			Recovery = 106.39%				
54) IS2_Naphthalene-d8	6.044	136	98684	4.000	ug/ml	#	0.00
Standard Area 3 = 86554			Recovery = 114.01%				
62) IS1_Acenaphthene-d10	7.747	164	66795	4.000	ug/ml		0.00
Standard Area 1 = 60587			Recovery = 110.25%				
82) IS2_Acenaphthene-d10	7.747	164	66795	4.000	ug/ml		0.00
Standard Area 3 = 57668			Recovery = 115.83%				
85) IS3_Acenaphthene-d10	7.747	164	66795	4.000	ug/ml		0.00
Standard Area 2 = 66116			Recovery = 101.03%				
87) IS1_Phenanthrene-d10	9.180	188	152110	4.000	ug/ml		0.00
Standard Area 1 = 137458			Recovery = 110.66%				
99) IS3_Phenanthrene-d10	9.180	188	152110	4.000	ug/ml		0.00
Standard Area 2 = 156367			Recovery = 97.28%				
103) IS1_Chrysene-d12	11.825	240	161240	4.000	ug/ml		0.00
Standard Area 1 = 145741			Recovery = 110.63%				
112) IS1_Perylene-d12	13.295	264	187452	4.000	ug/ml		0.00
Standard Area 1 = 171394			Recovery = 109.37%				
System Monitoring Compounds							
4) 2-Fluorophenol	3.551	112	21936	3.172	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 158.60%#				
7) Phenol-d6	4.487	99	23437	2.733	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 136.65%#				
19) Nitrobenzene-d5	5.348	82	14137	1.861	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 186.10%#				
45) 2-Fluorobiphenyl	7.110	172	41634	1.835	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 183.50%#				
78) 2,4,6-Tribromophenol	8.512	330	14264	4.576	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 228.80%#				
95) 4-Terphenyl-d14	10.759	244	73236	1.923	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 192.30%#				

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-07.D
Acq On : 5 Jun 2024 7:30 pm
Operator : Dakota:sz
Sample : L2430219-07,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 06 16:49:04 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 19:49:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.	d	
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.		
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
68) 4-Nitrophenol	0.000		0	N.D.		
70) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-07.D
Acq On : 5 Jun 2024 7:30 pm
Operator : Dakota:sz
Sample : L2430219-07,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 06 16:49:04 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 19:49:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) NDPA/DPA	0.000		0		N.D.	
79) 4-Bromophenyl phenyl e...	0.000		0		N.D.	
86) Atrazine	0.000		0		N.D.	
90) Carbazole	0.000		0		N.D.	
91) Di-n-butylphthalate	0.000		0		N.D.	d
96) Butyl benzyl phthalate	0.000		0		N.D.	
105) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
107) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
108) Di-n-octylphthalate	0.000		0		N.D.	d

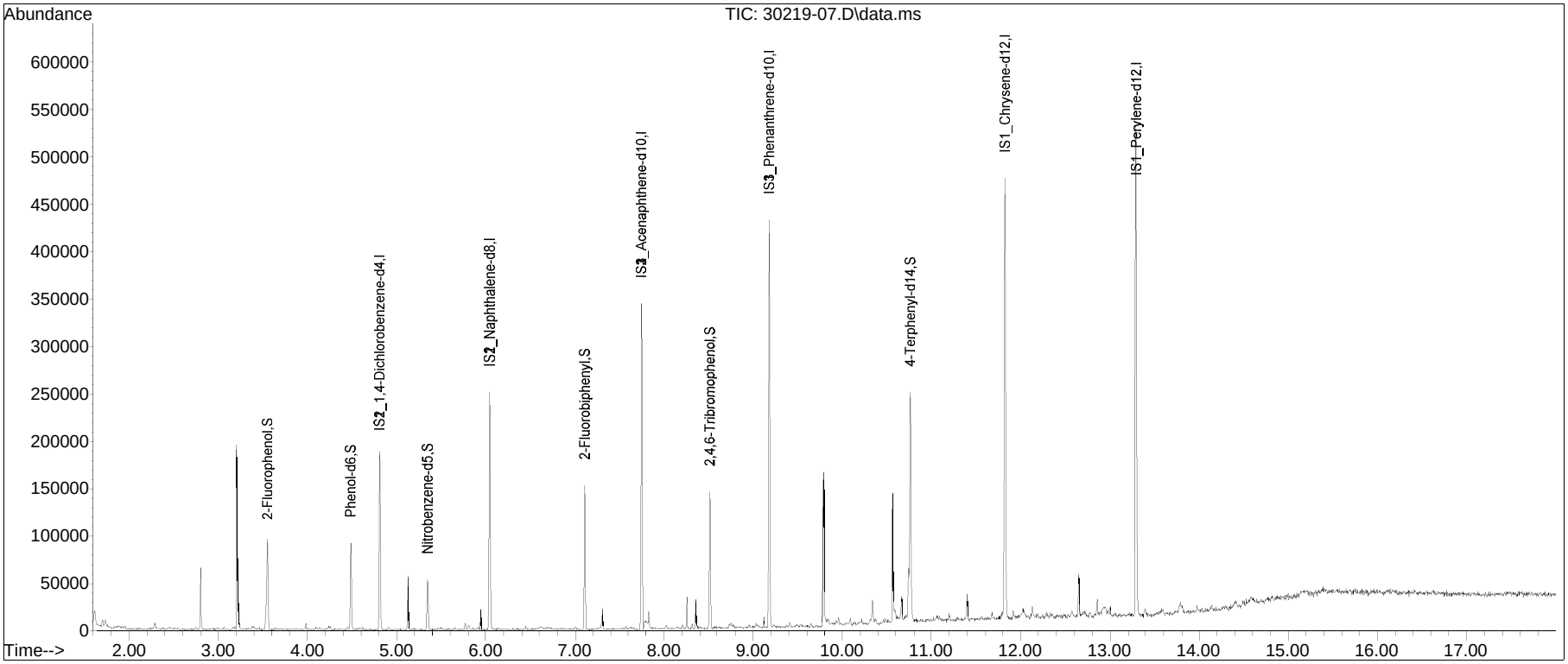
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-07.D
Acq On : 5 Jun 2024 7:30 pm
Operator : Dakota:sz
Sample : L2430219-07,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 06 16:49:04 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 19:49:02 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90605.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240605RVT\	QMethod	: FS240531RVTDakota.m
Data File	: 30219-07.D	Operator	: Dakota:sz
Date Inj'd	: 6/5/2024 7:30 pm	Instrument	: Dakota
Sample	: L2430219-07,32,,gmr	Quant Date	: 6/5/2024 7:49 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-08.D
Acq On : 5 Jun 2024 7:52 pm
Operator : Dakota:sz
Sample : L2430219-08,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 06 16:49:30 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 20:11:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.807	152	24853	4.000	ug/ml	0.00
Standard Area 1 = 25549			Recovery = 97.28%			
27) IS2_1,4-Dichlorobenzen...	4.807	152	24853	4.000	ug/ml	0.00
Standard Area 3 = 24259			Recovery = 102.45%			
34) IS1_Naphthalene-d8	6.044	136	88453	4.000	ug/ml	0.00
Standard Area 1 = 92758			Recovery = 95.36%			
54) IS2_Naphthalene-d8	6.044	136	88453	4.000	ug/ml	0.00
Standard Area 3 = 86554			Recovery = 102.19%			
62) IS1_Acenaphthene-d10	7.747	164	58238	4.000	ug/ml	0.00
Standard Area 1 = 60587			Recovery = 96.12%			
82) IS2_Acenaphthene-d10	7.747	164	58238	4.000	ug/ml	0.00
Standard Area 3 = 57668			Recovery = 100.99%			
85) IS3_Acenaphthene-d10	7.747	164	58238	4.000	ug/ml	0.00
Standard Area 2 = 66116			Recovery = 88.08%			
87) IS1_Phenanthrene-d10	9.180	188	135688	4.000	ug/ml	0.00
Standard Area 1 = 137458			Recovery = 98.71%			
99) IS3_Phenanthrene-d10	9.180	188	135688	4.000	ug/ml	0.00
Standard Area 2 = 156367			Recovery = 86.78%			
103) IS1_Chrysene-d12	11.822	240	142366	4.000	ug/ml	0.00
Standard Area 1 = 145741			Recovery = 97.68%			
112) IS1_Perylene-d12	13.292	264	167247	4.000	ug/ml	0.00
Standard Area 1 = 171394			Recovery = 97.58%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.548	112	20202	3.241	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 162.05%#			
7) Phenol-d6	4.487	99	21162	2.738	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 136.90%#			
19) Nitrobenzene-d5	5.351	82	12431	1.816	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 181.60%#			
45) 2-Fluorobiphenyl	7.110	172	37340	1.836	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 183.60%#			
78) 2,4,6-Tribromophenol	8.512	330	11836	4.355	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 217.75%#			
95) 4-Terphenyl-d14	10.759	244	63230	1.862	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 186.20%#			

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-08.D
Acq On : 5 Jun 2024 7:52 pm
Operator : Dakota:sz
Sample : L2430219-08,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 06 16:49:30 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 20:11:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.	d	
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.		
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
68) 4-Nitrophenol	0.000		0	N.D.		
70) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-08.D
Acq On : 5 Jun 2024 7:52 pm
Operator : Dakota:sz
Sample : L2430219-08,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 06 16:49:30 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 20:11:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) NDPA/DPA	0.000		0		N.D.	
79) 4-Bromophenyl phenyl e...	0.000		0		N.D.	
86) Atrazine	0.000		0		N.D.	
90) Carbazole	0.000		0		N.D.	
91) Di-n-butylphthalate	0.000		0		N.D.	d
96) Butyl benzyl phthalate	0.000		0		N.D.	
105) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
107) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
108) Di-n-octylphthalate	0.000		0		N.D.	d

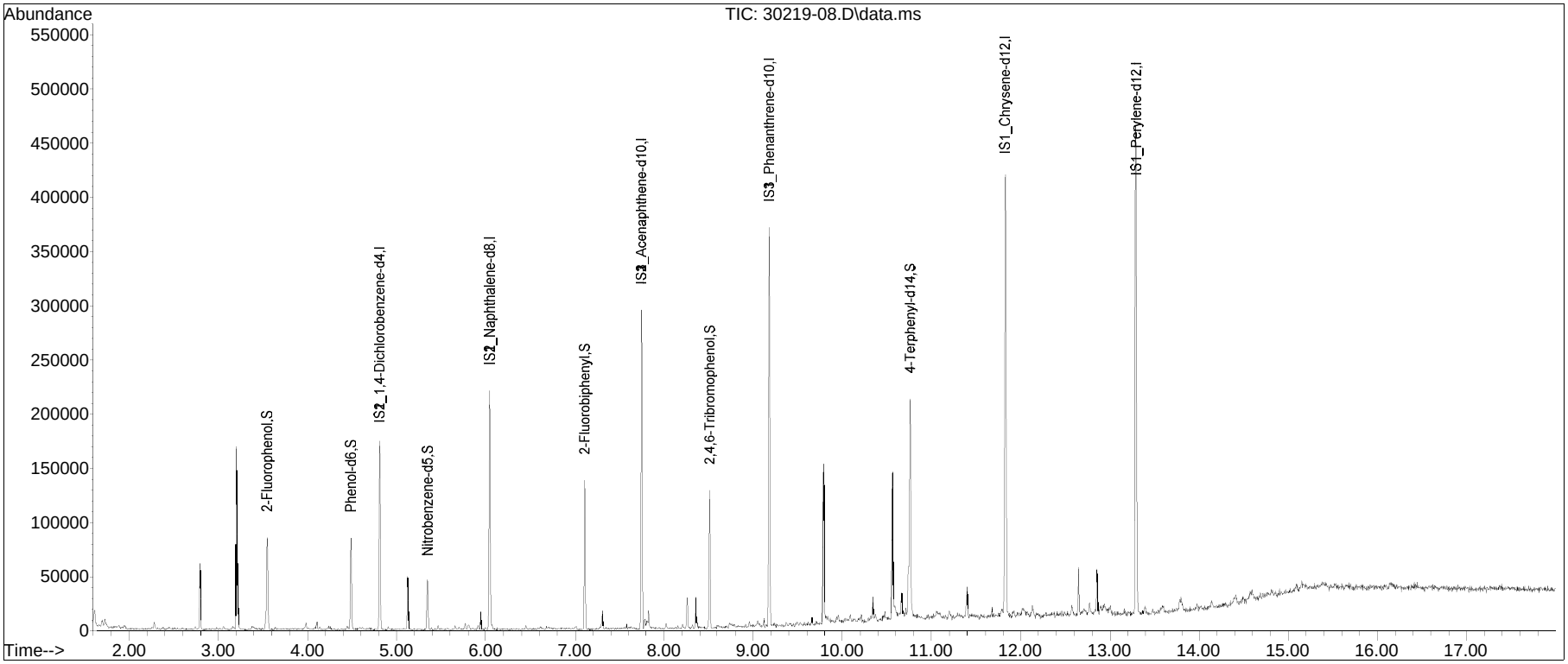
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-08.D
Acq On : 5 Jun 2024 7:52 pm
Operator : Dakota:sz
Sample : L2430219-08,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 06 16:49:30 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 20:11:34 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90605.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240605RVT\	QMethod	: FS240531RVTDakota.m
Data File	: 30219-08.D	Operator	: Dakota:sz
Date Inj'd	: 6/5/2024 7:52 pm	Instrument	: Dakota
Sample	: L2430219-08,32,,gmr	Quant Date	: 6/5/2024 8:11 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-09.D
Acq On : 5 Jun 2024 8:15 pm
Operator : Dakota:sz
Sample : L2430219-09,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 06 16:50:03 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 20:34:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.810	152	26560	4.000	ug/ml	0.00
Standard Area 1 = 25549			Recovery = 103.96%			
27) IS2_1,4-Dichlorobenzen...	4.810	152	26560	4.000	ug/ml	0.00
Standard Area 3 = 24259			Recovery = 109.49%			
34) IS1_Naphthalene-d8	6.044	136	96881	4.000	ug/ml	0.00
Standard Area 1 = 92758			Recovery = 104.44%			
54) IS2_Naphthalene-d8	6.044	136	96881	4.000	ug/ml	0.00
Standard Area 3 = 86554			Recovery = 111.93%			
62) IS1_Acenaphthene-d10	7.747	164	64835	4.000	ug/ml	0.00
Standard Area 1 = 60587			Recovery = 107.01%			
82) IS2_Acenaphthene-d10	7.747	164	64835	4.000	ug/ml	0.00
Standard Area 3 = 57668			Recovery = 112.43%			
85) IS3_Acenaphthene-d10	7.747	164	64835	4.000	ug/ml	0.00
Standard Area 2 = 66116			Recovery = 98.06%			
87) IS1_Phenanthrene-d10	9.180	188	151524	4.000	ug/ml	0.00
Standard Area 1 = 137458			Recovery = 110.23%			
99) IS3_Phenanthrene-d10	9.180	188	151524	4.000	ug/ml	0.00
Standard Area 2 = 156367			Recovery = 96.90%			
103) IS1_Chrysene-d12	11.825	240	154895	4.000	ug/ml	0.00
Standard Area 1 = 145741			Recovery = 106.28%			
112) IS1_Perylene-d12	13.295	264	180036	4.000	ug/ml	0.00
Standard Area 1 = 171394			Recovery = 105.04%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.548	112	21879	3.285	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 164.25%#			
7) Phenol-d6	4.487	99	22745	2.754	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 137.70%#			
19) Nitrobenzene-d5	5.348	82	13914	1.902	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 190.20%#			
45) 2-Fluorobiphenyl	7.110	172	41424	1.860	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 186.00%#			
78) 2,4,6-Tribromophenol	8.512	330	13035	4.309	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 215.45%#			
95) 4-Terphenyl-d14	10.759	244	74913	1.975	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 197.50%#			

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-09.D
Acq On : 5 Jun 2024 8:15 pm
Operator : Dakota:sz
Sample : L2430219-09,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 06 16:50:03 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 20:34:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.	d	
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.		
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
68) 4-Nitrophenol	0.000		0	N.D.		
70) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-09.D
Acq On : 5 Jun 2024 8:15 pm
Operator : Dakota:sz
Sample : L2430219-09,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 06 16:50:03 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 20:34:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) NDPA/DPA	0.000		0		N.D.	
79) 4-Bromophenyl phenyl e...	0.000		0		N.D.	
86) Atrazine	0.000		0		N.D.	
90) Carbazole	0.000		0		N.D.	
91) Di-n-butylphthalate	0.000		0		N.D.	d
96) Butyl benzyl phthalate	0.000		0		N.D.	
105) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
107) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
108) Di-n-octylphthalate	0.000		0		N.D.	d

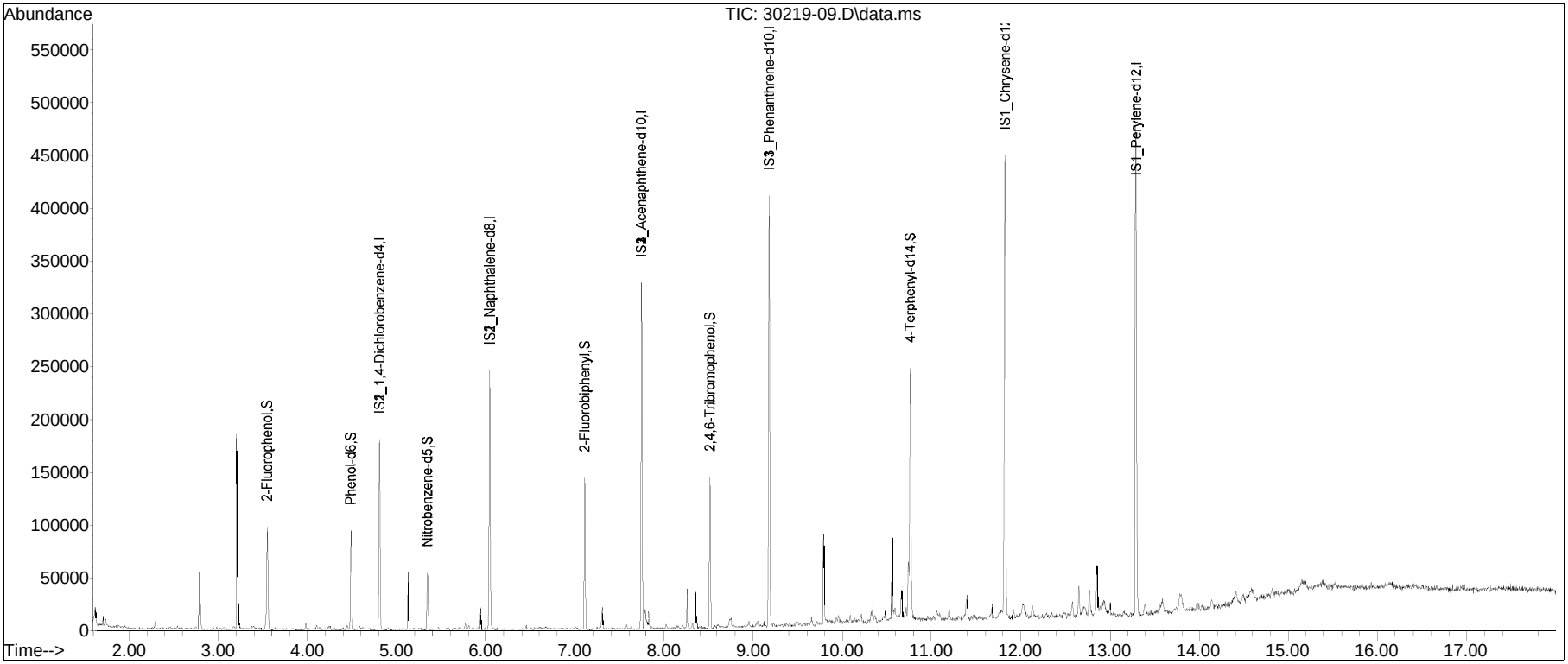
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : 30219-09.D
Acq On : 5 Jun 2024 8:15 pm
Operator : Dakota:sz
Sample : L2430219-09,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 06 16:50:03 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 20:34:05 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90605.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240605RVT\	QMethod	: FS240531RVTDakota.m
Data File	: 30219-09.D	Operator	: Dakota:sz
Date Inj'd	: 6/5/2024 8:15 pm	Instrument	: Dakota
Sample	: L2430219-09,32,,gmr	Quant Date	: 6/5/2024 8:34 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240606RVT\
Data File : 30219-10.D
Acq On : 6 Jun 2024 9:39 pm
Operator : Dakota:gmr
Sample : L2430219-10,32,,RR,mrg
Misc : WG1930740,WG1929069,ical21172
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 07 12:25:41 2024
Quant Method : I:\8270\dakota\240606RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 06 21:58:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240606RVT\ABN0606.D
: 2 - I:\8270\dakota\240606RVT\ADP0606.D
: 3 - I:\8270\dakota\240606RVT\AP90606.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.614	152	24863	4.000	ug/ml	0.00
Standard Area 1 = 28336			Recovery = 87.74%			
27) IS2_1,4-Dichlorobenzen...	4.614	152	24863	4.000	ug/ml	0.00
Standard Area 3 = 25966			Recovery = 95.75%			
34) IS1_Naphthalene-d8	5.844	136	90860	4.000	ug/ml	0.00
Standard Area 1 = 106354			Recovery = 85.43%			
54) IS2_Naphthalene-d8	5.844	136	90860	4.000	ug/ml	0.00
Standard Area 3 = 92927			Recovery = 97.78%			
62) IS1_Acenaphthene-d10	7.548	164	61039	4.000	ug/ml	0.00
Standard Area 1 = 72631			Recovery = 84.04%			
82) IS2_Acenaphthene-d10	7.548	164	61039	4.000	ug/ml	0.00
Standard Area 3 = 64770			Recovery = 94.24%			
85) IS3_Acenaphthene-d10	7.548	164	61039	4.000	ug/ml	0.00
Standard Area 2 = 71961			Recovery = 84.82%			
87) IS1_Phenanthrene-d10	8.971	188	143025	4.000	ug/ml	0.00
Standard Area 1 = 173211			Recovery = 82.57%			
99) IS3_Phenanthrene-d10	8.971	188	143025	4.000	ug/ml	0.00
Standard Area 2 = 169764			Recovery = 84.25%			
103) IS1_Chrysene-d12	11.585	240	153038	4.000	ug/ml	0.00
Standard Area 1 = 181940			Recovery = 84.11%			
112) IS1_Perylene-d12	13.034	264	182010	4.000	ug/ml	0.00
Standard Area 1 = 205628			Recovery = 88.51%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.346	112	21008	3.369	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 168.45%#			
7) Phenol-d6	4.297	99	21933	2.837	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 141.85%#			
19) Nitrobenzene-d5	5.154	82	14856	2.170	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 217.00%#			
45) 2-Fluorobiphenyl	6.914	172	43112	2.064	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 206.40%#			
78) 2,4,6-Tribromophenol	8.306	330	13059	4.585	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 229.25%#			
95) 4-Terphenyl-d14	10.544	244	75908	2.120	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 212.00%#			

Data Path : I:\8270\Dakota\240606RVT\
Data File : 30219-10.D
Acq On : 6 Jun 2024 9:39 pm
Operator : Dakota:gmr
Sample : L2430219-10,32,,RR,mrg
Misc : WG1930740,WG1929069,ical21172
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 07 12:25:41 2024
Quant Method : I:\8270\dakota\240606RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 06 21:58:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240606RVT\ABN0606.D
: 2 - I:\8270\dakota\240606RVT\ADP0606.D
: 3 - I:\8270\dakota\240606RVT\AP90606.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.	d	
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.		
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
68) 4-Nitrophenol	0.000		0	N.D.		
70) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\Dakota\240606RVT\
Data File : 30219-10.D
Acq On : 6 Jun 2024 9:39 pm
Operator : Dakota:gmr
Sample : L2430219-10,32,,RR,mrg
Misc : WG1930740,WG1929069,ical21172
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 07 12:25:41 2024
Quant Method : I:\8270\dakota\240606RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 06 21:58:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240606RVT\ABN0606.D
: 2 - I:\8270\dakota\240606RVT\ADP0606.D
: 3 - I:\8270\dakota\240606RVT\AP90606.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	NDPA/DPA	0.000		0	N.D.		
79)	4-Bromophenyl phenyl e...	0.000		0	N.D.		
86)	Atrazine	0.000		0	N.D.		
90)	Carbazole	0.000		0	N.D.		
91)	Di-n-butylphthalate	0.000		0	N.D.	d	
96)	Butyl benzyl phthalate	0.000		0	N.D.		
105)	3,3'-Dichlorobenzidine	0.000		0	N.D.		
107)	Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108)	Di-n-octylphthalate	0.000		0	N.D.	d	

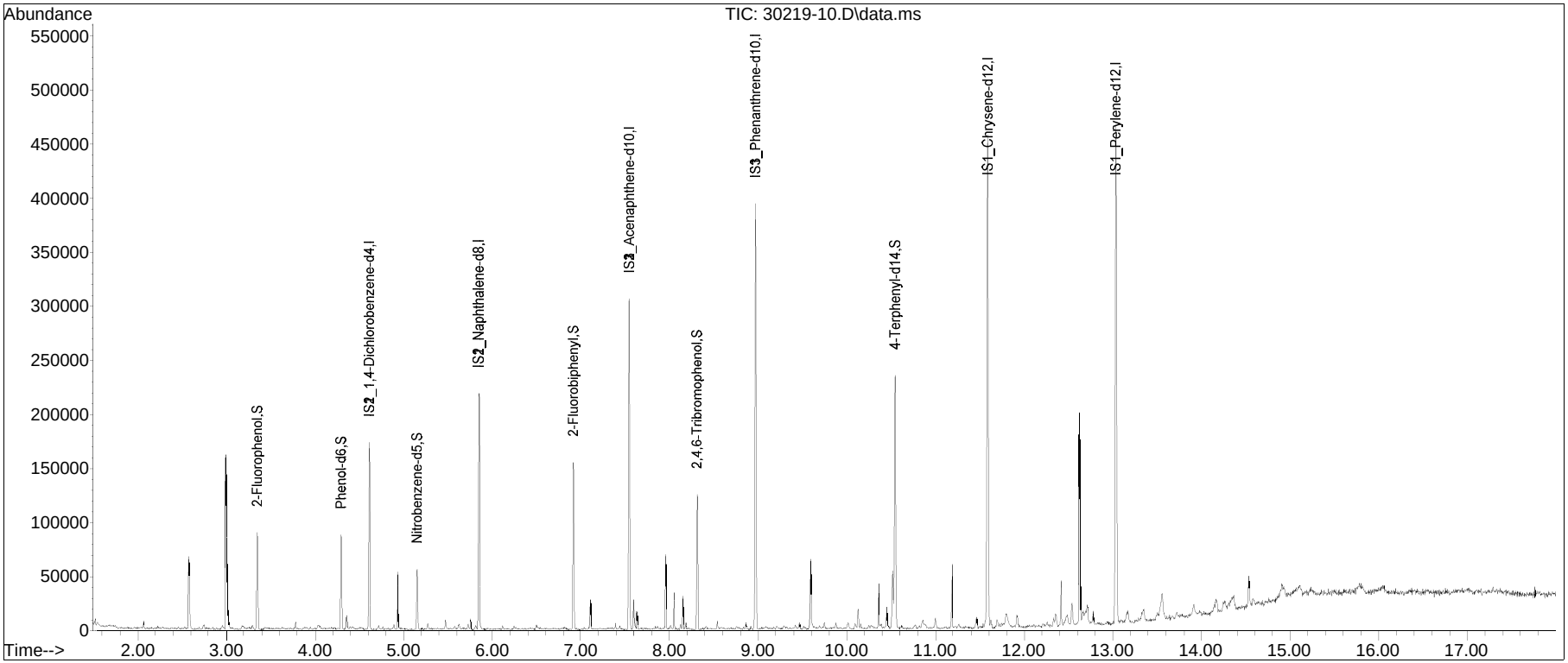
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240606RVT\
Data File : 30219-10.D
Acq On : 6 Jun 2024 9:39 pm
Operator : Dakota:gmr
Sample : L2430219-10,32,,RR,mrg
Misc : WG1930740,WG1929069,ical21172
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 07 12:25:41 2024
Quant Method : I:\8270\dakota\240606RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 06 21:58:02 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90606.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240606RVT\	QMethod	: FS240531RVTDakota.m
Data File	: 30219-10.D	Operator	: Dakota:gmr
Date Inj'd	: 6/6/2024 9:39 pm	Instrument	: Dakota
Sample	: L2430219-10,32,,RR,mrg	Quant Date	: 6/6/2024 9:58 pm

There are no manual integrations or false positives in this file.

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2430219**
Project Name	**: HUNTINGTON READY MIXED**	**Project Number**	**: 20116**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21169**
Calibration dates	**: 06/02/24 19:34 06/03/24 07:50**		

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------										
2)	t	N-Nitrosodimethylamine	0.659	0.739	0.752	0.641	0.668	0.690	0.727	0.727	0.732	0.704	5.69
3)	t	Pyridine		1.316	1.325	1.070	1.126	1.152	1.185	1.208	1.213	1.199	7.32
4)	S	2-Fluorophenol	1.034	1.081	1.155	0.964	1.016	1.037	1.109	1.105	1.120	1.069	5.64
5)	T	Aniline	1.687	1.734	1.822	1.574	1.612	1.631	1.778	1.767	1.812	1.713	5.30
6)	t	2-Chlorophenol	1.179	1.224	1.263	1.020	1.098	1.126	1.218	1.225	1.253	1.178	6.89
7)	S	Phenol-d6	1.278	1.335	1.459	1.201	1.240	1.264	1.354	1.363	1.402	1.322	6.26
8)	T	Phenol	1.406	1.526	1.559	1.291	1.349	1.358	1.464	1.467	1.523	1.438	6.41
9)	T	bis(2-Chloroethyl)ether	1.250	1.343	1.302	1.036	1.078	1.092	1.189	1.171	1.206	1.185	8.74
10)	T	1,3-Dichlorobenzene	1.520	1.599	1.506	1.281	1.350	1.362	1.480	1.467	1.500	1.452	6.91
11)	T	1,4-Dichlorobenzene	1.519	1.712	1.553	1.305	1.361	1.387	1.479	1.469	1.515	1.478	8.11
12)	T	1,2-Dichlorobenzene	1.523	1.524	1.499	1.271	1.316	1.337	1.438	1.446	1.477	1.426	6.64
13)	t	Benzyl alcohol	0.983	1.013	1.035	0.892	0.918	0.948	1.041	1.068	1.105	1.000	7.08
14)	T	bis(2-chloroisopropyl)ether	1.700	1.723	1.762	1.433	1.473	1.502	1.662	1.658	1.695	1.623	7.43
15)	T	2-Methylphenol	1.015	1.022	1.072	0.906	0.949	0.992	1.080	1.097	1.145	1.031	7.32
16)	T	Hexachloroethane	0.564	0.574	0.599	0.476	0.490	0.517	0.560	0.554	0.571	0.545	7.60
17)	T	n-Nitrosodi-n-propylamine	0.915	0.891	0.880	0.787	0.817	0.835	0.919	0.922	0.948	0.879	6.20
18)	T	3-Methylphenol/4-Methylphenol	0.950	1.121	1.084	0.986	1.020	1.081	1.148	1.161	1.207	1.084	7.87
19)	S	Nitrobenzene-d5	1.086	1.168	1.154	1.010	1.068	1.154	1.252	1.286	1.303	1.165	8.65
20)	T	Nitrobenzene	1.134	1.157	1.216	1.047	1.112	1.187	1.290	1.296	1.332	1.197	7.95
21)	T	Isophorone	2.159	2.232	2.371	2.159	2.198	2.247	2.470	2.450	2.506	2.310	6.04
22)	T	2-Nitrophenol				0.395	0.468	0.498	0.584	0.619	0.635	0.533	17.81
23)	T	2,4-Dimethylphenol	1.049	1.057	1.116	1.007	1.025	1.054	1.126	1.146	1.208	1.088	6.01
24)	T	bis(2-Chloroethoxy)methane	1.538	1.541	1.569	1.414	1.406	1.410	1.558	1.547	1.585	1.508	4.95
25)	T	2,4-Dichlorophenol	0.960	1.048	1.114	0.980	1.043	1.092	1.181	1.191	1.236	1.094	8.75
26)	T	1,2,4-Trichlorobenzene	1.385	1.429	1.413	1.145	1.228	1.221	1.336	1.343	1.367	1.318	7.42
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------										
28)	T	Benzaldehyde	1.042	1.090	1.002	1.018	0.972	0.961	1.028	1.023	1.078	1.024	4.21
29)	T	Acetophenone	1.757	1.693	1.775	1.718	1.676	1.701	1.823	1.839	1.949	1.770	4.98
30)	T	m-Toluidine	1.089	1.425	1.582	1.564	1.596	1.637	1.765	1.831	1.903	1.599	15.11
31)	T	2-Chloroaniline	1.488	1.575	1.472	1.473	1.477	1.505	1.601	1.616	1.711	1.546	5.45
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------										
33)	T	n-Decane	1.520	1.486	1.462	1.525	1.368	1.337	1.406	1.417	1.504	1.447	4.71
34)	I	IS1_Naphthalene-d8	----------ISTD----------										
35)	T	Naphthalene	1.083	1.118	1.062	0.891	0.943	0.924	0.975	0.964	1.002	0.996	7.74
36)	T	Benzoic Acid					0.124	0.165	0.205	0.229	0.243	*L	0.9992

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2430219**
Project Name	**: HUNTINGTON READY MIXED**	**Project Number**	**: 20116**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21169**
Calibration dates	**: 06/02/24 19:34 06/03/24 07:50**		

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
37)	T	4-Chloroaniline	0.129	0.121	0.129	0.115	0.123	0.120	0.130	0.129	0.135	0.126	4.95
38)	T	Hexachlorobutadiene	0.214	0.247	0.227	0.181	0.194	0.196	0.215	0.207	0.214	0.211	9.32
39)	T	p-Chloro-m-cresol	0.249	0.255	0.255	0.255	0.263	0.274	0.297	0.295	0.307	0.272	8.12
40)	T	2-Methylnaphthalene	0.695	0.742	0.720	0.635	0.643	0.655	0.701	0.682	0.724	0.688	5.50
41)	T	1-Methylnaphthalene	0.242	0.253	0.245	0.217	0.222	0.220	0.239	0.232	0.243	0.235	5.40
42)	T	Hexachlorocyclopentadiene	0.181	0.215	0.200	0.169	0.191	0.196	0.225	0.231	0.239	0.205	11.50
43)	T	2,4,6-Trichlorophenol	0.188	0.227	0.228	0.215	0.230	0.242	0.264	0.257	0.279	0.237	11.57
44)	T	2,4,5-Trichlorophenol	0.220	0.240	0.243	0.225	0.245	0.256	0.273	0.278	0.279	0.251	8.74
45)	S	2-Fluorobiphenyl	0.900	0.914	0.940	0.791	0.820	0.822	0.877	0.856	0.873	0.866	5.61
46)	T	2-Chloronaphthalene	0.713	0.793	0.758	0.653	0.673	0.675	0.722	0.710	0.741	0.715	6.24
47)	T	2-Nitroaniline			0.144	0.135	0.150	0.174	0.196	0.201	0.211	0.173	17.54
48)	T	1,4-Dinitrobenzene					0.066	0.076	0.092	0.097	0.104	0.087	18.10
49)	T	1,3-Dinitrobenzene					0.084	0.099	0.112	0.120	0.128	0.109	15.85
50)	T	Dimethyl phthalate	0.827	0.896	0.845	0.791	0.805	0.809	0.851	0.848	0.877	0.839	4.10
51)	T	Acenaphthylene	1.034	1.123	1.090	1.004	1.020	1.050	1.132	1.117	1.145	1.079	4.93
52)	T	2,6-Dinitrotoluene			0.116	0.124	0.145	0.159	0.171	0.174	0.178	0.153	16.32
53)	T	1,2-Dinitrobenzene			0.053	0.055	0.064	0.070	0.076	0.078	0.081	0.068	16.41
54)	I	IS2_Naphthalene-d8	----------ISTD----------										
55)	T	a-Terpineol	0.273	0.249	0.277	0.273	0.260	0.258	0.287	0.300	0.310	0.276	7.15
56)	T	3-Chloroaniline	0.129	0.147	0.149	0.148	0.147	0.140	0.151	0.156	0.159	0.147	6.14
57)	T	2,6-Dichlorophenol	0.238	0.256	0.283	0.276	0.285	0.281	0.317	0.331	0.343	0.290	11.85
58)	T	1-chloro-2-nitrobenzene	0.102	0.121	0.114	0.108	0.113	0.111	0.133	0.142	0.147	0.121	13.04
59)	T	Caprolactam				0.125	0.133	0.142	0.161	0.167	0.167	0.149	12.11
60)	T	1,2,4,5-Tetrachlorobenzene	0.422	0.408	0.419	0.393	0.382	0.368	0.397	0.410	0.419	0.402	4.58
61)	T	Biphenyl	0.924	0.964	0.962	0.896	0.893	0.854	0.918	0.969	0.982	0.929	4.65
62)	I	IS1_Acenaphthene-d10	----------ISTD----------										
63)	T	3-Nitroaniline			0.216	0.207	0.251	0.257	0.283	0.289	0.313	0.259	14.84
64)	T	Acenaphthene	1.135	1.206	1.151	1.031	0.986	0.974	1.060	1.061	1.126	1.081	7.24
65)	T	2,4-Dinitrophenol				0.061	0.096	0.113	0.138	0.155	0.179	*L	0.9922
66)	T	Dibenzofuran	1.883	1.958	1.830	1.645	1.680	1.604	1.751	1.677	1.782	1.757	6.69
67)	T	2,4-Dinitrotoluene			0.248	0.253	0.303	0.325	0.375	0.394	0.436	*L	0.9948
68)	T	4-Nitrophenol				0.179	0.210	0.207	0.238	0.236	0.259	0.221	12.91
69)	T	2,3,5,6-Tetrachlorophenol	0.221	0.289	0.313	0.285	0.326	0.322	0.366	0.353	0.384	0.318	15.48
70)	T	2,3,4,6-Tetrachlorophenol	0.253	0.289	0.296	0.291	0.322	0.322	0.350	0.337	0.363	0.314	11.01
71)	T	Diethyl phthalate	1.336	1.322	1.369	1.203	1.280	1.196	1.330	1.277	1.400	1.301	5.33
72)	T	Fluorene	1.372	1.431	1.383	1.243	1.281	1.233	1.333	1.273	1.405	1.328	5.52

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2430219**
Project Name	**: HUNTINGTON READY MIXED**	**Project Number**	**: 20116**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21169**
Calibration dates	**: 06/02/24 19:34 06/03/24 07:50**		

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
73)	T	4-Chlorophenyl-phenylether	0.725	0.721	0.710	0.627	0.647	0.614	0.678	0.631	0.694	0.672	6.41
74)	T	4-Nitroaniline			0.211	0.220	0.257	0.251	0.300	0.293	0.306	0.262	14.62
75)	T	4,6-Dinitro-o-cresol			0.085	0.096	0.138	0.156	0.205	0.213	0.243	*L	0.9911
76)	T	NDPA/DPA	1.102	1.197	1.200	1.057	1.107	1.057	1.152	1.093	1.217	1.131	5.49
77)	T	Azobenzene	1.261	1.308	1.303	1.184	1.229	1.197	1.301	1.229	1.321	1.259	4.08
78)	S	2,4,6-Tribromophenol	0.102	0.159	0.167	0.168	0.173	0.176	0.199	0.185	0.205	0.171	17.42
79)	T	4-Bromophenyl-phenylether	0.407	0.423	0.403	0.335	0.357	0.346	0.376	0.354	0.386	0.376	8.09
80)	T	Hexachlorobenzene	0.490	0.487	0.452	0.412	0.407	0.390	0.420	0.395	0.424	0.431	8.66
81)	T	Pentachlorophenol				0.183	0.237	0.237	0.276	0.271	0.307	0.252	17.04
82)	I	IS2_Acenaphthene-d10	----------ISTD----------										
83)	T	Dichloran				0.083	0.102	0.113	0.147	0.180	0.197	*Q	0.9978
84)	T	Pentachloronitrobenzene				0.105	0.122	0.133	0.161	0.181	0.194	*Q	0.9990
85)	I	IS3_Acenaphthene-d10	----------ISTD----------										
86)	T	Atrazine		0.287	0.298	0.345	0.329	0.356	0.389	0.427		0.347	14.16
87)	I	IS1_Phenanthrene-d10	----------ISTD----------										
88)	T	Phenanthrene	1.101	1.140	1.129	0.982	0.977	0.946	1.018	1.004	1.045	1.038	6.77
89)	T	Anthracene	1.033	1.102	1.077	0.952	0.981	0.943	1.057	1.033	1.089	1.030	5.70
90)	T	Carbazole	0.855	0.947	0.955	0.888	0.900	0.879	0.967	0.963	1.000	0.928	5.26
91)	T	Di-n-butylphthalate			0.950	0.935	0.993	1.044	1.218	1.222	1.256	1.088	12.82
92)	T	Fluoranthene	1.196	1.296	1.206	1.100	1.126	1.093	1.216	1.205	1.236	1.186	5.65
93)	T	Benzidine				0.568	0.649	0.674	0.798	0.798	0.837	0.721	14.68
94)	T	Pyrene	1.312	1.364	1.309	1.203	1.204	1.162	1.287	1.281	1.297	1.269	5.13
95)	S	4-Terphenyl-d14	0.913	0.909	0.915	0.815	0.832	0.800	0.885	0.895	0.912	0.875	5.29
96)	T	Butyl benzyl phthalate			0.306	0.326	0.392	0.422	0.520	0.549	0.573	*L	0.9962
97)	I	IS2_Phenanthrene-d10	----------ISTD----------										
98)	T	Diphenamid	0.370	0.378	0.415	0.410	0.431	0.433	0.500	0.517	0.551	0.445	14.19
99)	I	IS3_Phenanthrene-d10	----------ISTD----------										
100)	T	n-Octadecane	0.328	0.329	0.355	0.411	0.374	0.398	0.427	0.435	0.479	0.393	13.02
101)	T	Parathion			0.040	0.052	0.050	0.062	0.077	0.100	0.124	*Q	0.9987
102)	T	3,3'-Dimethylbenzidine				0.533	0.547	0.670	0.731	0.800	0.895	0.696	20.41#
103)	I	IS1_Chrysene-d12	----------ISTD----------										
104)	T	Benzo[a]anthracene	1.458	1.452	1.367	1.229	1.266	1.218	1.386	1.341	1.297	1.335	6.68
105)	T	3,3'-Dichlorobenzidine		0.337	0.377	0.378	0.421	0.432	0.498	0.508	0.487	0.430	14.76
106)	T	Chrysene		1.479	1.397	1.260	1.243	1.163	1.254	1.214	1.194	1.276	8.42
107)	T	bis(2-Ethylhexyl)phthalate		0.468	0.557	0.555	0.705	0.741	0.902	0.918		*L	0.9935
108)	T	Di-n-octylphthalate			0.724	0.790	1.067	1.147	1.474	1.571		*L	0.9918

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2430219**
Project Name	**: HUNTINGTON READY MIXED**	**Project Number**	**: 20116**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21169**
Calibration dates	**: 06/02/24 19:34 06/03/24 07:50**		

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
109)	T	Benzo(b)fluoranthene	1.097	1.221	1.184	1.033	1.167	1.107	1.257	1.261	1.275	1.178	7.17
110)	T	Benzo(k)fluoranthene	1.076	1.221	1.229	1.120	1.125	1.102	1.222	1.158	1.131	1.154	4.94
111)	T	Benzo(a)pyrene	0.882	1.013	1.054	0.933	1.014	0.981	1.121	1.115	1.114	1.025	8.26
112)	I	IS1_Perylene-d12	----------ISTD----------										
113)	T	Indeno(1,2,3-cd)pyrene		0.780	0.794	0.802	0.959	0.887	1.113	1.110	1.169	0.952	16.81
114)	T	Dibenzo[a,h]anthracene	0.705	0.838	0.942	0.917	0.952	0.961	1.104	1.069	1.089	0.953	13.41
115)	T	Benzo(g,h,i)perylene	0.801	0.925	0.997	0.913	0.930	0.878	1.020	0.950	0.935	0.928	6.89

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2430219**
Project Name	**: HUNTINGTON READY MIXED**	**Project Number**	**: 20116**
Instrument ID	**: DAKOTA**	**Ical Ref**	**: ICAL21172**
Calibration dates	**: 05/31/24 18:03 06/01/24 05:05**		

Calibration Files

L1 =ADPL1.D L2 =ADPL2.D L3 =ADPL3.D L4 =ADPL4.D L5 =ADPL5.D L6 =ADPL6.D L7 =ADPL7.D

L8 =ADPL8.D L9 =ADPL9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------										
2)	t	N-Nitrosodimethylamine		0.597	0.697	0.555	0.633	0.620	0.652	0.673	0.718	0.643	8.34
3)	t	Pyridine	0.929	0.975	1.080	0.985	1.011	1.042	1.102	1.158	1.181	1.051	8.14
4)	S	2-Fluorophenol	1.113	0.992	0.994	0.905	0.932	0.952	1.018	1.041	1.081	1.003	6.79
5)	T	Aniline	1.681	1.816	1.630	1.404	1.488	1.596	1.653	1.656	1.700	1.625	7.40
6)	t	2-Chlorophenol	1.059	1.212	1.145	1.011	1.069	1.131	1.151	1.151	1.160	1.121	5.54
7)	S	Phenol-d6	1.072	1.411	1.263	1.105	1.167	1.233	1.277	1.320	1.349	1.244	9.03
8)	T	Phenol	1.360	1.452	1.355	1.264	1.330	1.396	1.441	1.465	1.476	1.393	5.14
9)	T	bis(2-Chloroethyl)ether	0.827	1.142	0.959	0.892	0.893	0.961	0.956	0.938	0.960	0.948	9.07
10)	T	1,3-Dichlorobenzene	1.477	1.532	1.540	1.291	1.355	1.375	1.419	1.386	1.419	1.422	5.80
11)	T	1,4-Dichlorobenzene	1.675	1.516	1.348	1.290	1.301	1.375	1.414	1.380	1.403	1.411	8.45
12)	T	1,2-Dichlorobenzene	1.415	1.526	1.388	1.239	1.293	1.371	1.384	1.330	1.330	1.364	5.96
13)	t	Benzyl alcohol	0.810	1.033	1.018	0.760	0.877	0.923	0.939	0.928	0.942	0.915	9.68
14)	T	bis(2-chloroisopropyl)ether	1.912	1.712	1.716	1.420	1.466	1.526	1.529	1.455	1.464	1.578	10.49
15)	T	2-Methylphenol	1.055	0.859	0.929	0.910	0.873	0.949	0.966	0.952	0.943	0.937	6.10
16)	T	Hexachloroethane		0.598	0.530	0.448	0.483	0.495	0.497	0.488	0.498	0.505	8.69
17)	T	n-Nitrosodi-n-propylamine	0.927	0.903	0.880	0.779	0.791	0.827	0.838	0.810	0.829	0.843	5.97
18)	T	3-Methylphenol/4-Methylphenol	1.003	1.050	1.083	0.960	0.982	1.036	1.039	1.033	1.012	1.022	3.64
19)	S	Nitrobenzene-d5	1.145	1.121	1.128	1.042	1.046	1.085	1.156	1.102	1.089	1.102	3.66
20)	T	Nitrobenzene	1.108	1.235	1.055	0.947	1.007	1.078	1.133	1.116	1.080	1.084	7.46
21)	T	Isophorone	2.238	1.985	2.154	2.074	2.004	2.100	2.155	2.108	2.080	2.100	3.71
22)	T	2-Nitrophenol		0.476	0.508	0.428	0.441	0.491	0.530	0.548	0.543	0.495	9.12
23)	T	2,4-Dimethylphenol	1.024	0.896	0.974	0.908	0.930	1.005	1.023	0.987	1.001	0.972	5.03
24)	T	bis(2-Chloroethoxy)methane	1.209	1.287	1.356	1.242	1.183	1.293	1.305	1.238	1.208	1.258	4.45
25)	T	2,4-Dichlorophenol	1.272	1.095	1.116	1.032	1.051	1.148	1.157	1.134	1.129	1.126	6.15
26)	T	1,2,4-Trichlorobenzene	1.345	1.418	1.458	1.278	1.280	1.372	1.382	1.320	1.312	1.352	4.54
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------										
28)	T	Benzaldehyde	0.889	1.087	1.067	0.956	0.937	0.844	0.961	0.943	0.948	0.959	8.00
29)	T	Acetophenone	1.630	1.366	1.691	1.604	1.597	1.530	1.656	1.630	1.636	1.593	6.03
30)	T	m-Toluidine	1.225	1.367	1.445	1.485	1.440	1.432	1.620	1.561	1.534	1.457	7.94
31)	T	2-Chloroaniline	1.373	1.338	1.521	1.435	1.420	1.389	1.543	1.481	1.468	1.441	4.75
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------										
33)	T	1,4-Dioxane	0.532	0.405	0.484	0.430	0.424	0.413	0.412	0.418	0.440	0.440	9.49
34)	T	n-Decane	1.089	1.363	1.228	1.211	1.067	1.086	1.131	1.124	1.177	1.164	8.04
35)	I	IS1_Naphthalene-d8	----------ISTD----------										
36)	T	Naphthalene	1.016	1.098	1.062	0.880	0.923	0.907	0.971	0.902	0.919	0.964	8.06

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2430219**
Project Name	**: HUNTINGTON READY MIXED**	**Project Number**	**: 20116**
Instrument ID	**: DAKOTA**	**Ical Ref**	**: ICAL21172**
Calibration dates	**: 05/31/24 18:03 06/01/24 05:05**		

Calibration Files

L1 =ADPL1.D L2 =ADPL2.D L3 =ADPL3.D L4 =ADPL4.D L5 =ADPL5.D L6 =ADPL6.D L7 =ADPL7.D

L8 =ADPL8.D L9 =ADPL9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
37)	T	Benzoic Acid				0.049	0.112	0.150	0.203	0.216	0.237	*L	0.9958
38)	T	4-Chloroaniline		0.125	0.123	0.116	0.114	0.106	0.121	0.117	0.120	0.118	5.12
39)	T	Hexachlorobutadiene	0.208	0.241	0.253	0.211	0.220	0.219	0.235	0.223	0.240	0.228	6.69
40)	T	p-Chloro-m-cresol	0.255	0.255	0.266	0.244	0.251	0.249	0.276	0.267	0.284	0.261	5.11
41)	T	2-Methylnaphthalene	0.720	0.740	0.725	0.634	0.667	0.650	0.706	0.667	0.701	0.690	5.31
42)	T	1-Methylnaphthalene	0.275	0.216	0.256	0.222	0.225	0.217	0.222	0.216	0.222	0.230	9.03
43)	T	Hexachlorocyclopentadiene	0.229	0.237	0.250	0.231	0.230	0.226	0.255	0.244	0.267	0.241	5.81
44)	T	2,4,6-Trichlorophenol	0.248	0.293	0.255	0.247	0.259	0.257	0.287	0.269	0.287	0.267	6.69
45)	T	2,4,5-Trichlorophenol	0.331	0.290	0.280	0.261	0.275	0.281	0.305	0.292	0.297	0.290	6.92
46)	S	2-Fluorobiphenyl	1.050	1.041	0.974	0.895	0.876	0.840	0.905	0.840	0.856	0.920	8.94
47)	T	2-Chloronaphthalene	0.834	0.789	0.826	0.715	0.740	0.720	0.761	0.716	0.729	0.759	6.17
48)	T	2-Nitroaniline			0.164	0.158	0.169	0.169	0.193	0.197	0.201	0.179	9.86
49)	T	1,4-Dinitrobenzene		0.082	0.073	0.062	0.079	0.075	0.083	0.090	0.093	0.080	12.49
50)	T	1,3-Dinitrobenzene	0.061	0.097	0.078	0.077	0.089	0.088	0.102	0.105	0.105	0.089	16.95
51)	T	Dimethyl phthalate	0.952	0.966	0.956	0.823	0.893	0.849	0.918	0.850	0.853	0.896	6.05
52)	T	Acenaphthylene	1.337	1.237	1.161	1.073	1.107	1.049	1.118	1.048	1.045	1.130	8.83
53)	T	2,6-Dinitrotoluene		0.170	0.132	0.151	0.149	0.146	0.168	0.172	0.170	0.157	9.43
54)	T	1,2-Dinitrobenzene		0.057	0.046	0.048	0.054	0.053	0.059	0.063	0.061	0.055	10.80
55)	I	IS2_Naphthalene-d8	----------ISTD----------										
56)	T	a-Terpineol	0.264	0.243	0.243	0.236	0.243	0.233	0.252	0.254	0.260	0.248	4.30
57)	T	3-Chloroaniline	0.163	0.123	0.129	0.134	0.140	0.127	0.138	0.135	0.139	0.136	8.42
58)	T	2,6-Dichlorophenol	0.325	0.321	0.313	0.307	0.306	0.310	0.332	0.325	0.330	0.319	3.10
59)	T	1-chloro-2-nitrobenzene	0.099	0.138	0.118	0.120	0.110	0.115	0.128	0.126	0.132	0.121	9.88
60)	T	Caprolactam				0.111	0.119	0.124	0.138	0.140	0.143	0.129	10.23
61)	T	1,2,4,5-Tetrachlorobenzene	0.462	0.507	0.464	0.443	0.429	0.424	0.446	0.431	0.433	0.449	5.79
62)	T	Biphenyl	1.000	1.012	0.985	0.910	0.889	0.871	0.940	0.891	0.879	0.931	5.92
63)	I	IS1_Acenaphthene-d10	----------ISTD----------										
64)	T	3-Nitroaniline	0.173	0.215	0.228	0.230	0.237	0.237	0.270	0.273	0.264	0.236	13.31
65)	T	Acenaphthene	1.093	1.103	1.053	0.965	0.953	0.912	0.988	0.942	0.923	0.993	7.32
66)	T	2,4-Dinitrophenol				0.084	0.102	0.114	0.139	0.151	0.148	*L	0.9982
67)	T	Dibenzofuran	1.690	1.823	1.893	1.644	1.649	1.557	1.671	1.570	1.488	1.665	7.65
68)	T	2,4-Dinitrotoluene	0.240	0.279	0.280	0.270	0.299	0.302	0.342	0.348	0.330	0.299	11.95
69)	T	4-Nitrophenol	0.173	0.188	0.196	0.191	0.207	0.210	0.232	0.231	0.214	0.205	9.52
70)	T	2,3,5,6-Tetrachlorophenol			0.368	0.338	0.357	0.355	0.398	0.385	0.383	0.369	5.62
71)	T	2,3,4,6-Tetrachlorophenol			0.343	0.334	0.362	0.342	0.369	0.373	0.366	0.355	4.38
72)	T	Diethyl phthalate	1.422	1.602	1.519	1.314	1.306	1.259	1.336	1.262	1.235	1.362	9.32

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2430219**
Project Name	**: HUNTINGTON READY MIXED**	**Project Number**	**: 20116**
Instrument ID	**: DAKOTA**	**Ical Ref**	**: ICAL21172**
Calibration dates	**: 05/31/24 18:03 06/01/24 05:05**		

Calibration Files
L1 =ADPL1.D L2 =ADPL2.D L3 =ADPL3.D L4 =ADPL4.D L5 =ADPL5.D L6 =ADPL6.D L7 =ADPL7.D
L8 =ADPL8.D L9 =ADPL9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
73)	T	Fluorene	1.327	1.548	1.398	1.328	1.287	1.227	1.326	1.257	1.210	1.323	7.75
74)	T	4-Chlorophenyl-phenylether	0.738	0.813	0.822	0.699	0.680	0.639	0.687	0.631	0.612	0.702	10.77
75)	T	4-Nitroaniline	0.213	0.274	0.241	0.214	0.252	0.261	0.285	0.274	0.251	0.252	10.12
76)	T	4,6-Dinitro-o-cresol				0.130	0.148	0.159	0.184	0.199	0.196	*L	0.9986
77)	T	NDPA/DPA	1.159	1.275	1.233	1.156	1.095	1.082	1.149	1.088	1.034	1.141	6.70
78)	T	Azobenzene	1.280	1.254	1.232	1.160	1.107	1.052	1.132	1.050	1.009	1.142	8.52
79)	S	2,4,6-Tribromophenol	0.152	0.162	0.179	0.193	0.189	0.187	0.207	0.206	0.205	0.187	10.38
80)	T	4-Bromophenyl-phenylether	0.466	0.459	0.484	0.426	0.411	0.407	0.433	0.421	0.419	0.436	6.19
81)	T	Hexachlorobenzene	0.532	0.564	0.535	0.506	0.492	0.450	0.493	0.477	0.472	0.502	7.17
82)	T	Pentachlorophenol				0.258	0.286	0.290	0.326	0.338	0.340	*L	0.9994
83)	I	IS2_Acenaphthene-d10	----------ISTD----------										
84)	T	Dichloran				0.131	0.147	0.139	0.174	0.185	0.202	*L	0.9951
85)	T	Pentachloronitrobenzene		0.137	0.153	0.127	0.152	0.162	0.177	0.185	0.192	0.160	14.29
86)	I	IS3_Acenaphthene-d10	----------ISTD----------										
87)	T	Atrazine	0.406	0.447	0.408	0.464	0.390	0.391	0.429	0.424	0.451	0.423	6.32
88)	I	IS1_Phenanthrene-d10	----------ISTD----------										
89)	T	Phenanthrene	1.071	1.185	1.052	0.983	0.974	0.923	1.010	0.924	0.902	1.003	8.94
90)	T	Anthracene	1.015	1.096	1.031	0.948	0.963	0.927	1.020	0.931	0.891	0.980	6.59
91)	T	Carbazole	1.119	1.030	1.005	0.882	0.907	0.883	0.963	0.892	0.858	0.949	9.21
92)	T	Di-n-butylphthalate	1.061	1.075	1.052	0.962	1.005	0.981	1.106	1.019	1.023	1.032	4.47
93)	T	Fluoranthene	1.586	1.471	1.273	1.184	1.207	1.162	1.293	1.194	1.147	1.280	11.86
94)	T	Benzidine	0.569	0.699	0.689	0.662	0.750	0.758	0.854	0.818	0.800	0.733	12.05
95)	T	Pyrene	1.638	1.555	1.407	1.274	1.291	1.224	1.343	1.222	1.140	1.344	12.15
96)	S	4-Terphenyl-d14	1.164	1.153	1.072	0.950	0.952	0.925	0.989	0.917	0.890	1.001	10.29
97)	T	Butyl benzyl phthalate	0.539	0.486	0.418	0.392	0.431	0.443	0.517	0.509	0.520	0.473	11.15
98)	I	IS2_Phenanthrene-d10	----------ISTD----------										
99)	T	Diphenamid	0.469	0.452	0.494	0.432	0.445	0.455	0.488	0.494	0.509	0.471	5.60
100)	I	IS3_Phenanthrene-d10	----------ISTD----------										
101)	T	n-Octadecane	0.326	0.333	0.308	0.365	0.299	0.308	0.323	0.330	0.335	0.325	6.01
102)	T	Parathion				0.074	0.088	0.064	0.074	0.079	0.095	0.109	*Q 0.9989
103)	T	3,3'-Dimethylbenzidine				0.557	0.760	0.694	0.733	0.806	0.886	0.899	*Q 0.9990
104)	I	IS1_Chrysene-d12	----------ISTD----------										
105)	T	Benzo[a]anthracene	1.767	1.644	1.409	1.292	1.270	1.184	1.325	1.269	1.243	1.378	14.34
106)	T	3,3'-Dichlorobenzidine	0.459	0.447	0.447	0.431	0.452	0.451	0.521	0.521	0.528	0.473	8.16
107)	T	Chrysene		1.591	1.438	1.246	1.217	1.130	1.251	1.126	1.105	1.263	13.47
108)	T	bis(2-Ethylhexyl)phthalate	0.717	0.634	0.638	0.599	0.621	0.630	0.732	0.688	0.736	0.666	7.86

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2430219**
Project Name	**: HUNTINGTON READY MIXED**	**Project Number**	**: 20116**
Instrument ID	**: DAKOTA**	**Ical Ref**	**: ICAL21172**
Calibration dates	**: 05/31/24 18:03 06/01/24 05:05**		

Calibration Files

L1 =ADPL1.D L2 =ADPL2.D L3 =ADPL3.D L4 =ADPL4.D L5 =ADPL5.D L6 =ADPL6.D L7 =ADPL7.D
L8 =ADPL8.D L9 =ADPL9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
109)	T	Di-n-octylphthalate	1.053	1.061	1.075	0.944	1.040	1.071	1.299	1.295	1.389	1.136	13.29
110)	T	Benzo(b)fluoranthene	1.729	1.651	1.449	1.275	1.268	1.254	1.390	1.362	1.384	1.418	11.88
111)	T	Benzo(k)fluoranthene	1.622	1.523	1.434	1.295	1.317	1.155	1.328	1.254	1.281	1.357	10.66
112)	T	Benzo(a)pyrene	1.401	1.444	1.262	1.142	1.165	1.137	1.271	1.243	1.296	1.262	8.58
113)	I	IS1_Perylene-d12	----------ISTD----------										
114)	T	Indeno(1,2,3-cd)pyrene	1.206	1.272	1.109	1.102	1.094	1.146	1.220	1.255	1.271	1.186	6.23
115)	T	Dibenzo[a,h]anthracene	1.119	1.126	1.206	1.018	1.048	1.009	1.137	1.081	1.055	1.089	5.86
116)	T	Benzo(g,h,i)perylene	1.118	1.215	1.140	1.036	1.034	0.998	1.099	1.060	1.081	1.087	6.04

Response Factor Report SV107

Method Path : I:\8270\SV107\240602ical\
Method File : FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 03 16:25:28 2024
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	ISTD										
2)	t	N-Nitrosodimethylamine	0.659	0.739	0.752	0.641	0.668	0.690	0.727	0.727	0.732	0.704	5.69
3)	t	Pyridine		1.316	1.325	1.070	1.126	1.152	1.185	1.208	1.213	1.199	7.32
4)	S	2-Fluorophenol	1.034	1.081	1.155	0.964	1.016	1.037	1.109	1.105	1.120	1.069	5.64
5)	T	Aniline	1.687	1.734	1.822	1.574	1.612	1.631	1.778	1.767	1.812	1.713	5.30
6)	t	2-Chlorophenol	1.179	1.224	1.263	1.020	1.098	1.126	1.218	1.225	1.253	1.178	6.89
7)	S	Phenol-d6	1.278	1.335	1.459	1.201	1.240	1.264	1.354	1.363	1.402	1.322	6.26
8)	T	Phenol	1.406	1.526	1.559	1.291	1.349	1.358	1.464	1.467	1.523	1.438	6.41
9)	T	bis(2-Chloroethyl)ether	1.250	1.343	1.302	1.036	1.078	1.092	1.189	1.171	1.206	1.185	8.74
10)	T	1,3-Dichlorobenzene	1.520	1.599	1.506	1.281	1.350	1.362	1.480	1.467	1.500	1.452	6.91
11)	T	1,4-Dichlorobenzene	1.519	1.712	1.553	1.305	1.361	1.387	1.479	1.469	1.515	1.478	8.11
12)	T	1,2-Dichlorobenzene	1.523	1.524	1.499	1.271	1.316	1.337	1.438	1.446	1.477	1.426	6.64
13)	t	Benzyl alcohol	0.983	1.013	1.035	0.892	0.918	0.948	1.041	1.068	1.105	1.000	7.08
14)	T	bis(2-chloroisopropyl)ether	1.700	1.723	1.762	1.433	1.473	1.502	1.662	1.658	1.695	1.623	7.43
15)	T	2-Methylphenol	1.015	1.022	1.072	0.906	0.949	0.992	1.080	1.097	1.145	1.031	7.32
16)	T	Hexachloroethane	0.564	0.574	0.599	0.476	0.490	0.517	0.560	0.554	0.571	0.545	7.60
17)	T	n-Nitrosodi-n-propylamine	0.915	0.891	0.880	0.787	0.817	0.835	0.919	0.922	0.948	0.879	6.20
18)	T	3-Methylphenol/4-Methylphenol	0.950	1.121	1.084	0.986	1.020	1.081	1.148	1.161	1.207	1.084	7.87
19)	S	Nitrobenzene-d5	1.086	1.168	1.154	1.010	1.068	1.154	1.252	1.286	1.303	1.165	8.65
20)	T	Nitrobenzene	1.134	1.157	1.216	1.047	1.112	1.187	1.290	1.296	1.332	1.197	7.95
21)	T	Isophorone	2.159	2.232	2.371	2.159	2.198	2.247	2.470	2.450	2.506	2.310	6.04
22)	T	2-Nitrophenol				0.395	0.468	0.498	0.584	0.619	0.635	0.533	17.81
23)	T	2,4-Dimethylphenol	1.049	1.057	1.116	1.007	1.025	1.054	1.126	1.146	1.208	1.088	6.01
24)	T	bis(2-Chloroethoxy)methane	1.538	1.541	1.569	1.414	1.406	1.410	1.558	1.547	1.585	1.508	4.95
25)	T	2,4-Dichlorophenol	0.960	1.048	1.114	0.980	1.043	1.092	1.181	1.191	1.236	1.094	8.75
26)	T	1,2,4-Trichlorobenzene	1.385	1.429	1.413	1.145	1.228	1.221	1.336	1.343	1.367	1.318	7.42
27)	I	IS2_1,4-Dichlorobenzene-d4	ISTD										
28)	T	Benzaldehyde	1.042	1.090	1.002	1.018	0.972	0.961	1.028	1.023	1.078	1.024	4.21
29)	T	Acetophenone	1.757	1.693	1.775	1.718	1.676	1.701	1.823	1.839	1.949	1.770	4.98
30)	T	m-Toluidine	1.089	1.425	1.582	1.564	1.596	1.637	1.765	1.831	1.903	1.599	15.11
31)	T	2-Chloroaniline	1.488	1.575	1.472	1.473	1.477	1.505	1.601	1.616	1.711	1.546	5.45
32)	I	IS3_1,4-Dichlorobenzene-d4	ISTD										
33)	T	n-Decane	1.520	1.486	1.462	1.525	1.368	1.337	1.406	1.417	1.504	1.447	4.71
34)	I	IS1_Naphthalene-d8	ISTD										
35)	T	Naphthalene	1.083	1.118	1.062	0.891	0.943	0.924	0.975	0.964	1.002	0.996	7.74
36)	T	Benzoic Acid					0.124	0.165	0.205	0.229	0.243	*L	0.9992
37)	T	4-Chloroaniline	0.129	0.121	0.129	0.115	0.123	0.120	0.130	0.129	0.135	0.126	4.95
38)	T	Hexachlorobutadiene	0.214	0.247	0.227	0.181	0.194	0.196	0.215	0.207	0.214	0.211	9.32
39)	T	p-Chloro-m-cresol	0.249	0.255	0.255	0.255	0.263	0.274	0.297	0.295	0.307	0.272	8.12
40)	T	2-Methylnaphthalene	0.695	0.742	0.720	0.635	0.643	0.655	0.701	0.682	0.724	0.688	5.50
41)	T	1-Methylnaphthalene	0.242	0.253	0.245	0.217	0.222	0.220	0.239	0.232	0.243	0.235	5.40
42)	T	Hexachlorocyclopentadiene	0.181	0.215	0.200	0.169	0.191	0.196	0.225	0.231	0.239	0.205	11.50
43)	T	2,4,6-Trichlorophenol	0.188	0.227	0.228	0.215	0.230	0.242	0.264	0.257	0.279	0.237	11.57
44)	T	2,4,5-Trichlorophenol	0.220	0.240	0.243	0.225	0.245	0.256	0.273	0.278	0.279	0.251	8.74
45)	S	2-Fluorobiphenyl	0.900	0.914	0.940	0.791	0.820	0.822	0.877	0.856	0.873	0.866	5.61

Response Factor Report SV107

Method Path : I:\8270\SV107\240602ical\
Method File : FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 03 16:25:28 2024
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
46)	T	2-Chloronaphthalene	0.713	0.793	0.758	0.653	0.673	0.675	0.722	0.710	0.741	0.715	6.24
47)	T	2-Nitroaniline			0.144	0.135	0.150	0.174	0.196	0.201	0.211	0.173	17.54
48)	T	1,4-Dinitrobenzene					0.066	0.076	0.092	0.097	0.104	0.087	18.10
49)	T	1,3-Dinitrobenzene					0.084	0.099	0.112	0.120	0.128	0.109	15.85
50)	T	Dimethyl phthalate	0.827	0.896	0.845	0.791	0.805	0.809	0.851	0.848	0.877	0.839	4.10
51)	T	Acenaphthylene	1.034	1.123	1.090	1.004	1.020	1.050	1.132	1.117	1.145	1.079	4.93
52)	T	2,6-Dinitrotoluene			0.116	0.124	0.145	0.159	0.171	0.174	0.178	0.153	16.32
53)	T	1,2-Dinitrobenzene			0.053	0.055	0.064	0.070	0.076	0.078	0.081	0.068	16.41
54)	I	IS2_Naphthalene-d8	ISTD										
55)	T	a-Terpineol	0.273	0.249	0.277	0.273	0.260	0.258	0.287	0.300	0.310	0.276	7.15
56)	T	3-Chloroaniline	0.129	0.147	0.149	0.148	0.147	0.140	0.151	0.156	0.159	0.147	6.14
57)	T	2,6-Dichlorophenol	0.238	0.256	0.283	0.276	0.285	0.281	0.317	0.331	0.343	0.290	11.85
58)	T	1-chloro-2-nitrobenzene	0.102	0.121	0.114	0.108	0.113	0.111	0.133	0.142	0.147	0.121	13.04
59)	T	Caprolactam				0.125	0.133	0.142	0.161	0.167	0.167	0.149	12.11
60)	T	1,2,4,5-Tetrachlorobenzene	0.422	0.408	0.419	0.393	0.382	0.368	0.397	0.410	0.419	0.402	4.58
61)	T	Biphenyl	0.924	0.964	0.962	0.896	0.893	0.854	0.918	0.969	0.982	0.929	4.65
62)	I	IS1_Acenaphthene-d10	ISTD										
63)	T	3-Nitroaniline			0.216	0.207	0.251	0.257	0.283	0.289	0.313	0.259	14.84
64)	T	Acenaphthene	1.135	1.206	1.151	1.031	0.986	0.974	1.060	1.061	1.126	1.081	7.24
65)	T	2,4-Dinitrophenol				0.061	0.096	0.113	0.138	0.155	0.179	*L	0.9922
66)	T	Dibenzofuran	1.883	1.958	1.830	1.645	1.680	1.604	1.751	1.677	1.782	1.757	6.69
67)	T	2,4-Dinitrotoluene			0.248	0.253	0.303	0.325	0.375	0.394	0.436	*L	0.9948
68)	T	4-Nitrophenol				0.179	0.210	0.207	0.238	0.236	0.259	0.221	12.91
69)	T	2,3,5,6-Tetrachlorophenol	0.221	0.289	0.313	0.285	0.326	0.322	0.366	0.353	0.384	0.318	15.48
70)	T	2,3,4,6-Tetrachlorophenol	0.253	0.289	0.296	0.291	0.322	0.322	0.350	0.337	0.363	0.314	11.01
71)	T	Diethyl phthalate	1.336	1.322	1.369	1.203	1.280	1.196	1.330	1.277	1.400	1.301	5.33
72)	T	Fluorene	1.372	1.431	1.383	1.243	1.281	1.233	1.333	1.273	1.405	1.328	5.52
73)	T	4-Chlorophenyl-phenylether	0.725	0.721	0.710	0.627	0.647	0.614	0.678	0.631	0.694	0.672	6.41
74)	T	4-Nitroaniline			0.211	0.220	0.257	0.251	0.300	0.293	0.306	0.262	14.62
75)	T	4,6-Dinitro-o-cresol			0.085	0.096	0.138	0.156	0.205	0.213	0.243	*L	0.9911
76)	T	NDPA/DPA	1.102	1.197	1.200	1.057	1.107	1.057	1.152	1.093	1.217	1.131	5.49
77)	T	Azobenzene	1.261	1.308	1.303	1.184	1.229	1.197	1.301	1.229	1.321	1.259	4.08
78)	S	2,4,6-Tribromophenol	0.102	0.159	0.167	0.168	0.173	0.176	0.199	0.185	0.205	0.171	17.42
79)	T	4-Bromophenyl-phenylether	0.407	0.423	0.403	0.335	0.357	0.346	0.376	0.354	0.386	0.376	8.09
80)	T	Hexachlorobenzene	0.490	0.487	0.452	0.412	0.407	0.390	0.420	0.395	0.424	0.431	8.66
81)	T	Pentachlorophenol				0.183	0.237	0.237	0.276	0.271	0.307	0.252	17.04
82)	I	IS2_Acenaphthene-d10	ISTD										
83)	T	Dichloran				0.083	0.102	0.113	0.147	0.180	0.197	*Q	0.9978
84)	T	Pentachloronitrobenzene				0.105	0.122	0.133	0.161	0.181	0.194	*Q	0.9990
85)	I	IS3_Acenaphthene-d10	ISTD										
86)	T	Atrazine		0.287	0.298	0.345	0.329	0.356	0.389	0.427		0.347	14.16
87)	I	IS1_Phenanthrene-d10	ISTD										
88)	T	Phenanthrene	1.101	1.140	1.129	0.982	0.977	0.946	1.018	1.004	1.045	1.038	6.77
89)	T	Anthracene	1.033	1.102	1.077	0.952	0.981	0.943	1.057	1.033	1.089	1.030	5.70
90)	T	Carbazole	0.855	0.947	0.955	0.888	0.900	0.879	0.967	0.963	1.000	0.928	5.26

Response Factor Report SV107

Method Path : I:\8270\SV107\240602ical\
Method File : FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 03 16:25:28 2024
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

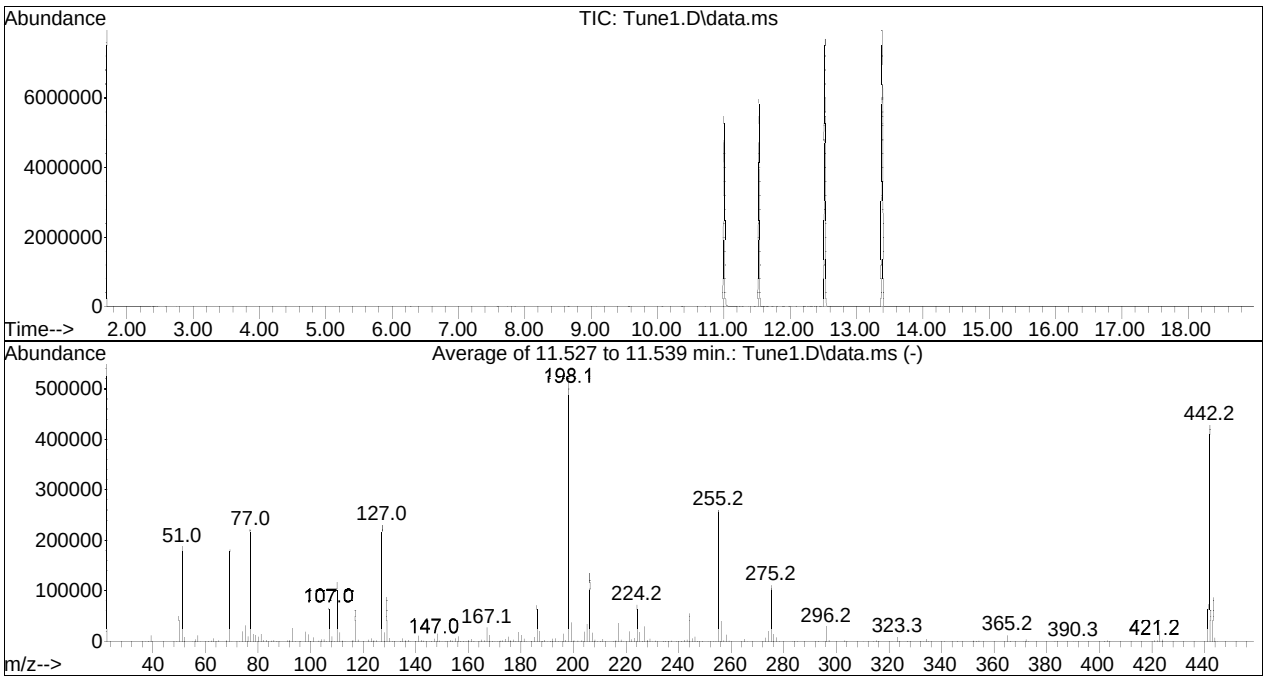
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD	
91)	T	Di-n-butylphthalate			0.950	0.935	0.993	1.044	1.218	1.222	1.256	1.088	12.82	
92)	T	Fluoranthene	1.196	1.296	1.206	1.100	1.126	1.093	1.216	1.205	1.236	1.186	5.65	
93)	T	Benzidine				0.568	0.649	0.674	0.798	0.798	0.837	0.721	14.68	
94)	T	Pyrene	1.312	1.364	1.309	1.203	1.204	1.162	1.287	1.281	1.297	1.269	5.13	
95)	S	4-Terphenyl-d14	0.913	0.909	0.915	0.815	0.832	0.800	0.885	0.895	0.912	0.875	5.29	
96)	T	Butyl benzyl phthalate			0.306	0.326	0.392	0.422	0.520	0.549	0.573		*L	0.9962
97)	I	IS2_Phenanthrene-d10	----------ISTD----------											
98)	T	Diphenamid	0.370	0.378	0.415	0.410	0.431	0.433	0.500	0.517	0.551	0.445	14.19	
99)	I	IS3_Phenanthrene-d10	----------ISTD----------											
100)	T	n-Octadecane	0.328	0.329	0.355	0.411	0.374	0.398	0.427	0.435	0.479	0.393	13.02	
101)	T	Parathion			0.040	0.052	0.050	0.062	0.077	0.100	0.124		*Q	0.9987
102)	T	3,3'-Dimethylbenzidine				0.533	0.547	0.670	0.731	0.800	0.895	0.696	20.41#	
103)	I	IS1_Chrysene-d12	----------ISTD----------											
104)	T	Benzo[a]anthracene	1.458	1.452	1.367	1.229	1.266	1.218	1.386	1.341	1.297	1.335	6.68	
105)	T	3,3'-Dichlorobenzidine		0.337	0.377	0.378	0.421	0.432	0.498	0.508	0.487	0.430	14.76	
106)	T	Chrysene		1.479	1.397	1.260	1.243	1.163	1.254	1.214	1.194	1.276	8.42	
107)	T	bis(2-Ethylhexyl)phthalate		0.468	0.557	0.555	0.705	0.741	0.902	0.918			*L	0.9935
108)	T	Di-n-octylphthalate			0.724	0.790	1.067	1.147	1.474	1.571			*L	0.9918
109)	T	Benzo(b)fluoranthene	1.097	1.221	1.184	1.033	1.167	1.107	1.257	1.261	1.275	1.178	7.17	
110)	T	Benzo(k)fluoranthene	1.076	1.221	1.229	1.120	1.125	1.102	1.222	1.158	1.131	1.154	4.94	
111)	T	Benzo(a)pyrene	0.882	1.013	1.054	0.933	1.014	0.981	1.121	1.115	1.114	1.025	8.26	
112)	I	IS1_Perylene-d12	----------ISTD----------											
113)	T	Indeno(1,2,3-cd)pyrene		0.780	0.794	0.802	0.959	0.887	1.113	1.110	1.169	0.952	16.81	
114)	T	Dibenzo[a,h]anthracene	0.705	0.838	0.942	0.917	0.952	0.961	1.104	1.069	1.089	0.953	13.41	
115)	T	Benzo(g,h,i)perylene	0.801	0.925	0.997	0.913	0.930	0.878	1.020	0.950	0.935	0.928	6.89	

(#) = Out of Range

Data Path : I:\8270\SV107\240602ical\
Data File : Tune1.D
Acq On : 2 Jun 2024 7:09 pm
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 03 16:25:28 2024



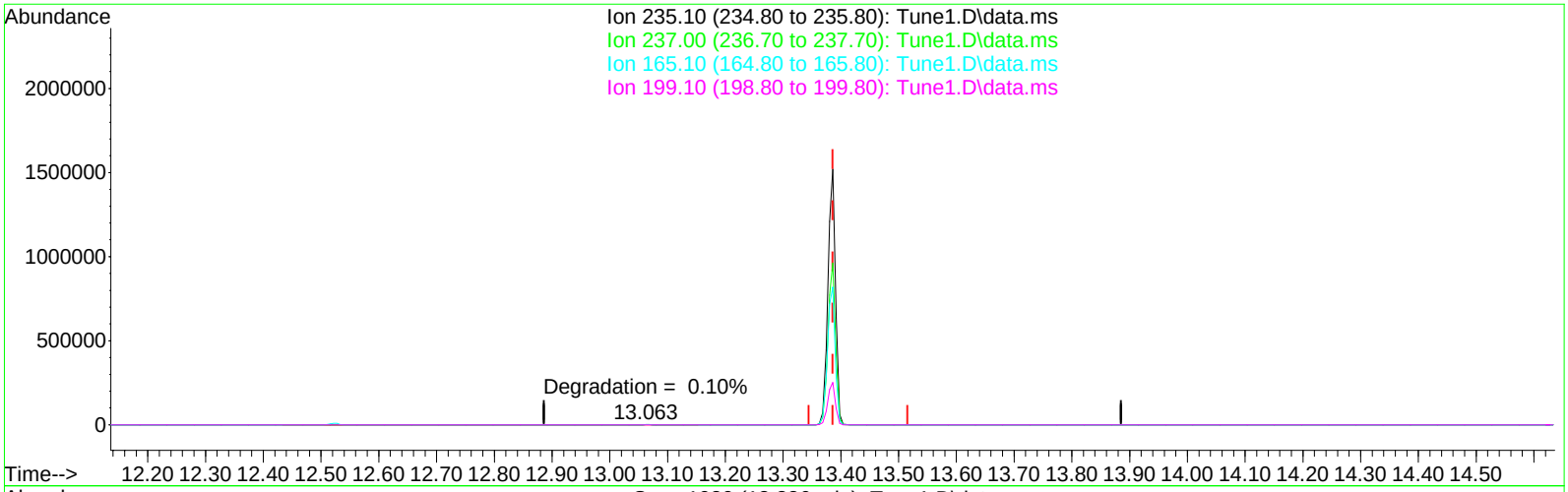
Spectrum Information: Average of 11.527 to 11.539 min.

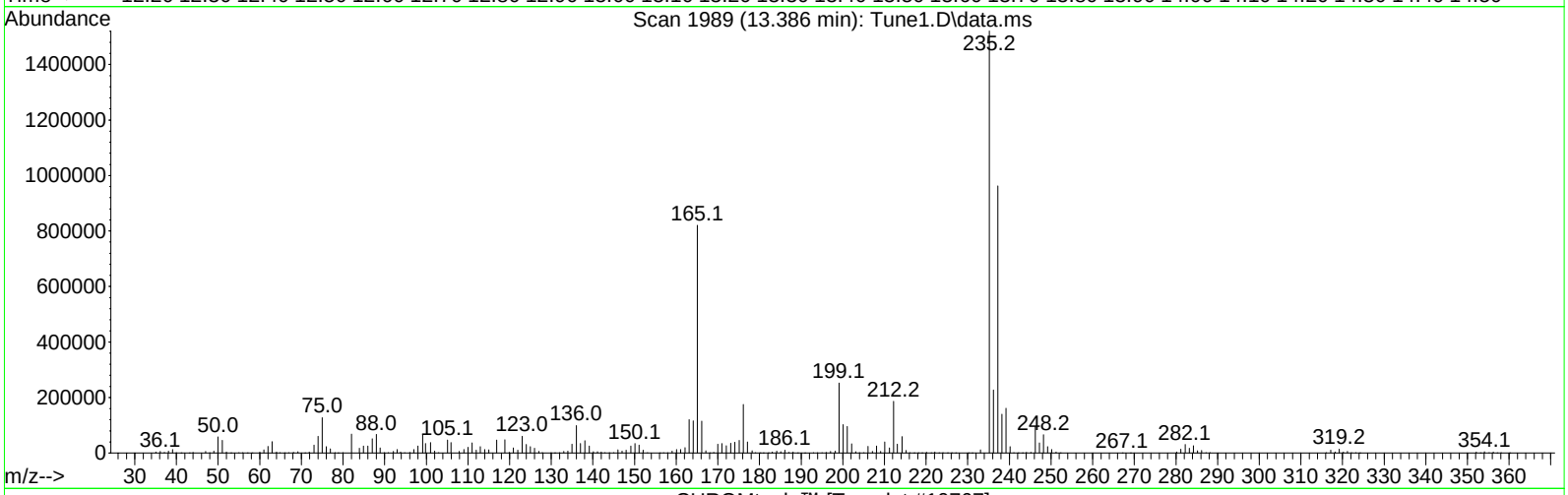
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	35.9	187531	PASS
68	69	0.00	2	1.7	3108	PASS
69	69	100	100	100.0	182483	PASS
70	69	0.00	2	0.6	1027	PASS
127	198	10	80	44.0	229973	PASS
197	198	0.00	2	0.8	4040	PASS
198	198	100	100	100.0	522133	PASS
199	198	5	9	6.8	35451	PASS
275	198	10	60	21.3	111272	PASS
365	198	1	100	2.3	12158	PASS
441	442	0.01	24	16.8	72077	PASS
442	198	50	100	82.0	427989	PASS
443	442	15	24	20.2	86597	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune1.D
Acq On : 2 Jun 2024 7:09 pm
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:04:42 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(6) DDT (T)

13.386min (+ 0.000) 228.98

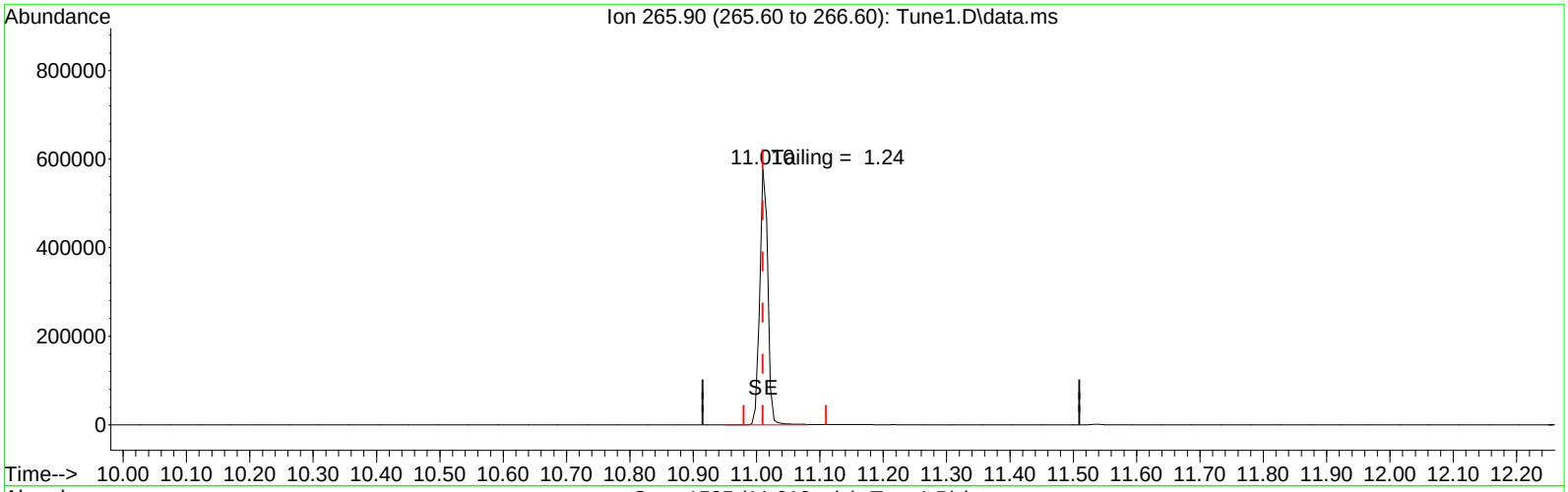
response 1395788

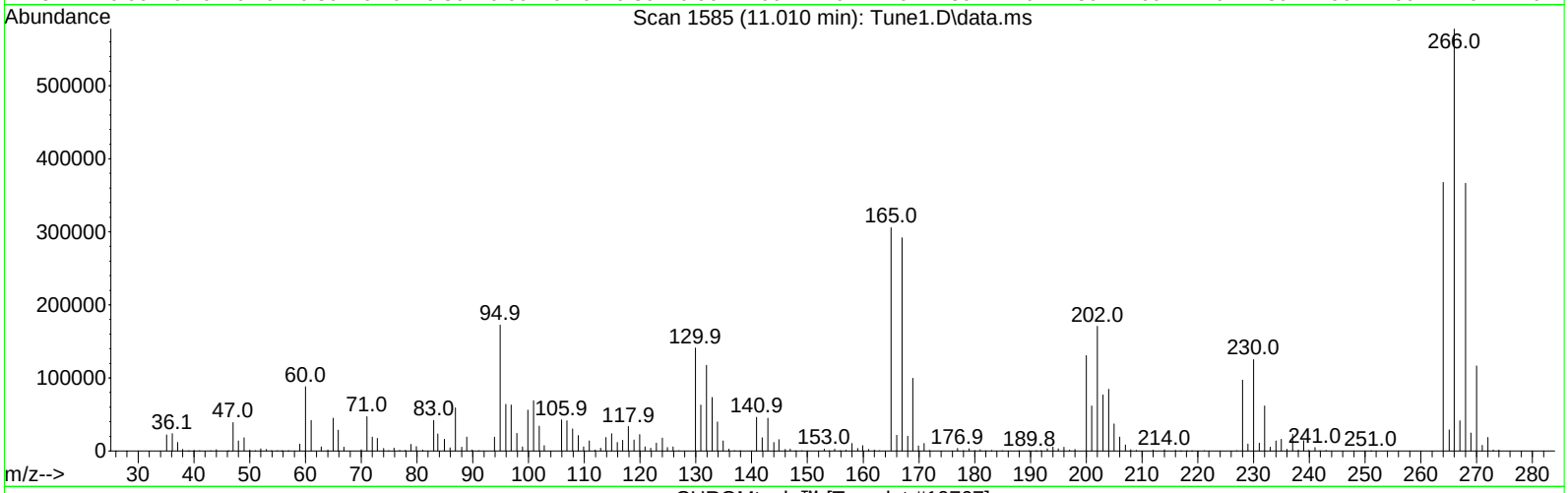
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	64.30	63.53
165.10	55.40	55.28
199.10	16.20	16.69

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune1.D
Acq On : 2 Jun 2024 7:09 pm
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:04:42 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(1) Pentachlorophenol (T)

11.010min (-0.000) 240.75

response 505661

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

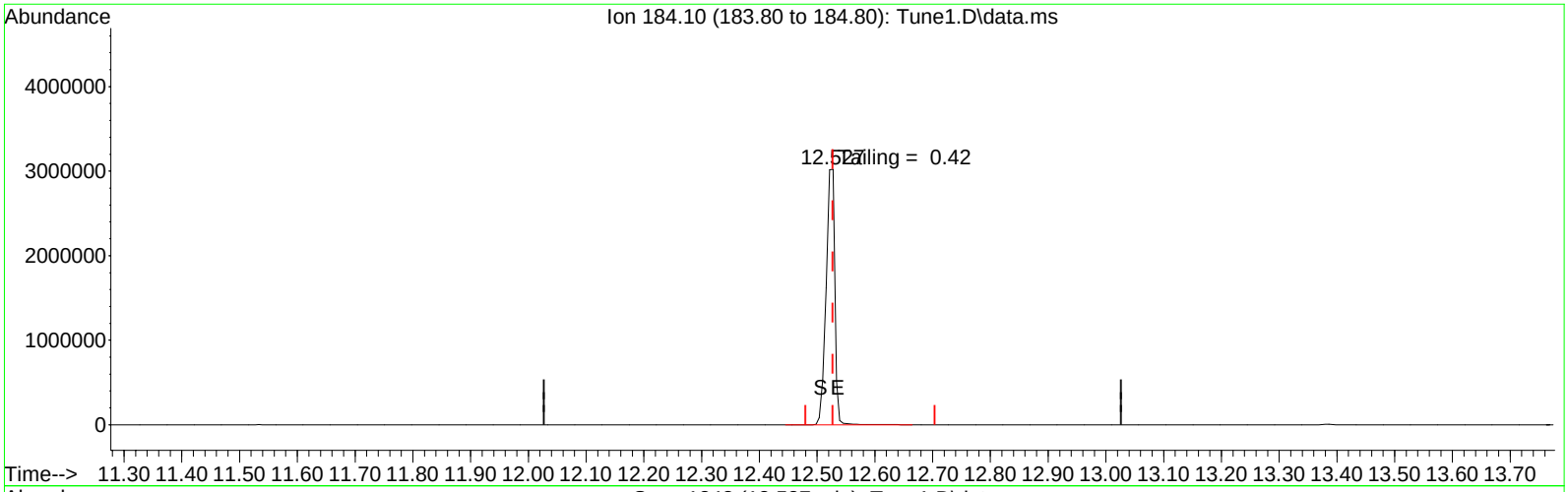
Duplicate Retention Times

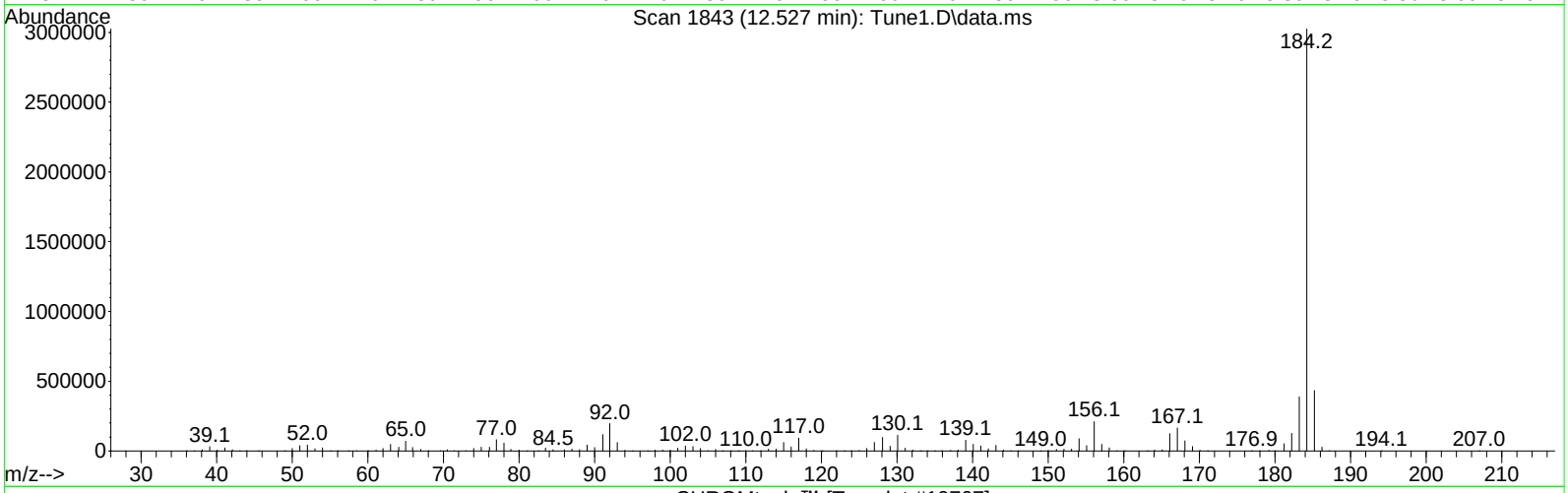
(2) DFTPP 198.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune1.D
Acq On : 2 Jun 2024 7:09 pm
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:04:42 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(3) Benzidine (T)

12.527min (+ 0.000) 310.23

response 3158173

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL9.D
Acq On : 2 Jun 2024 7:34 pm
Operator : SV107:jg
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1929644,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 03 10:59:15 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	52092	4.000	ug/ml	# 0.00
Standard Area 1 = 52051			Recovery = 100.08%			
34) IS1_Naphthalene-d8	7.963	136	196006	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 102.97%			
62) IS1_Acenaphthene-d10	9.733	164	120488	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 97.19%			
87) IS1_Phenanthrene-d10	11.174	188	241169	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 95.61%			
103) IS1_Chrysene-d12	13.845	240	226976	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 97.03%			
112) IS1_Perylene-d12	15.321	264	215373	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 89.34%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.692	112	729562	47.770	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 2388.50%#			
7) Phenol-d6	6.169	99	913206	47.155	ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 2357.75%#			
19) Nitrobenzene-d5	7.192	82	848672	47.774	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 4777.40%#			
45) 2-Fluorobiphenyl	9.086	172	2139322	47.429	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 4742.90%#			
78) 2,4,6-Tribromophenol	10.510	330	308756	68.577	ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 3428.85%#			
95) 4-Terphenyl-d14	12.768	244	2749792	51.791	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 5179.10%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.263	74	476466	44.380	ug/ml#	67
3) Pyridine	2.310	79	789847M3	50.615	ug/ml	
5) Aniline	6.134	93	1179796	51.274	ug/ml	98
6) 2-Chlorophenol	6.281	128	815776	48.639	ug/ml	94
8) Phenol	6.186	94	991965	46.986	ug/ml	97
9) Bis(2-chloroethyl)ether	6.257	93	785125	44.809	ug/ml#	85
10) 1,3-Dichlorobenzene	6.463	146	976808	46.986	ug/ml	98
11) 1,4-Dichlorobenzene	6.557	146	986681	46.274	ug/ml	98
12) 1,2-Dichlorobenzene	6.734	146	961491	47.316	ug/ml	98

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL9.D
Acq On : 2 Jun 2024 7:34 pm
Operator : SV107:jg
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1929644,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 03 10:59:15 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.745	79	719447	51.831	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	1103416	46.642	ug/ml#	45
15) 2-Methylphenol	6.910	108	745396	50.435	ug/ml	98
16) Hexachloroethane	7.122	117	371487	48.927	ug/ml#	63
17) n-Nitrosodi-n-propylamine	7.069	70	617228	51.768	ug/ml	93
18) 3-Methylphenol/4-Methy...	7.098	108	786206	49.161	ug/ml	98
20) Nitrobenzene	7.210	77	867466	47.687	ug/ml	99
21) Isophorone	7.492	82	1631961	52.056	ug/ml	97
22) 2-Nitrophenol	7.569	139	413598	55.352	ug/ml	91
23) 2,4-Dimethylphenol	7.669	107	786698	63.139	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.763	93	1032309	48.807	ug/ml	98
25) 2,4-Dichlorophenol	7.833	162	804676	55.165	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.916	180	890261	46.778	ug/ml	97
35) Naphthalene	7.981	128	2455182	44.647	ug/ml	98
36) Benzoic Acid	7.857	105	594990M3	46.450	ug/ml	
37) 4-Chloroaniline	8.063	65	329663	48.950	ug/ml	90
38) Hexachlorobutadiene	8.145	225	524479	47.024	ug/ml	99
39) p-Chloro-m-cresol	8.586	107	752356	53.913	ug/ml	98
40) 2-Methylnaphthalene	8.704	142	1773515	48.547	ug/ml	96
41) 1-Methylnaphthalene	8.798	115	595801	47.696	ug/ml	97
42) Hexachlorocyclopentadiene	8.880	237	585777	72.368	ug/ml	98
43) 2,4,6-Trichlorophenol	8.998	196	683883	61.941	ug/ml	98
44) 2,4,5-Trichlorophenol	9.027	196	684500	57.154	ug/ml	99
46) 2-Chloronaphthalene	9.186	162	1814998	49.433	ug/ml	96
47) 2-Nitroaniline	9.298	138	516831	46.219	ug/ml	89
48) 1,4-Dinitrobenzene	9.433	168	255453	47.634	ug/ml	77
49) 1,3-Dinitrobenzene	9.510	168	312993	59.575	ug/ml#	1
50) Dimethyl phthalate	9.510	163	2147747	52.966	ug/ml#	98
51) Acenaphthylene	9.592	152	2805280	50.791	ug/ml	97
52) 2,6-Dinitrotoluene	9.551	165	436608	49.584	ug/ml#	81
53) 1,2-Dinitrobenzene	9.598	168	197825	52.511	ug/ml#	1
63) 3-Nitroaniline	9.710	138	471068	51.669	ug/ml	97
64) Acenaphthene	9.769	154	1695793	49.930	ug/ml	92
65) 2,4-Dinitrophenol	9.810	184	269058	55.401	ug/ml#	87
66) Dibenzofuran	9.939	168	2683577	48.125	ug/ml	95
67) 2,4-Dinitrotoluene	9.945	165	656313	53.666	ug/ml	92
68) 4-Nitrophenol	9.898	65	390800	50.844	ug/ml#	88
69) 2,3,5,6-Tetrachlorophenol	10.027	232	577911	60.589	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL9.D
Acq On : 2 Jun 2024 7:34 pm
Operator : SV107:jg
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1929644,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 03 10:59:15 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 2,3,4,6-Tetrachlorophenol	10.069	232	546634	56.529	ug/ml	97
71) Diethyl phthalate	10.204	149	2108194	53.768	ug/ml	96
72) Fluorene	10.269	166	2115991	50.482	ug/ml	94
73) 4-Chlorophenyl phenyl ...	10.286	204	1044988	48.404	ug/ml	90
74) 4-Nitroaniline	10.316	138	461065	50.193	ug/ml#	88
75) 4,6-Dinitro-o-cresol	10.339	198	365550	56.724	ug/ml#	63
76) NDPA/DPA	10.410	169	1833086	54.507	ug/ml	94
77) Azobenzene	10.439	77	1989446	50.335	ug/ml	95
79) 4-Bromophenyl phenyl e...	10.763	248	581049	51.273	ug/ml	90
80) Hexachlorobenzene	10.816	284	638949	51.087	ug/ml#	87
81) Pentachlorophenol	11.010	266	461808	58.459	ug/ml	98
88) Phenanthrene	11.204	178	3149864	46.986	ug/ml	97
89) Anthracene	11.251	178	3281818	51.815	ug/ml	97
90) Carbazole	11.421	167	3013630	52.456	ug/ml	96
91) Di-n-butylphthalate	11.804	149	3786524	61.939	ug/ml	98
92) Fluoranthene	12.363	202	3725734	51.666	ug/ml#	92
93) Benzidine	12.515	184	2523163	64.802	ug/ml#	95
94) Pyrene	12.586	202	3910527	50.113	ug/ml	97
96) Butyl benzyl phthalate	13.304	149	1728011	50.798	ug/ml	92
104) Benzo(a)anthracene	13.839	228	3679599	48.093	ug/ml	97
105) 3,3'-Dichlorobenzidine	13.833	252	1382777	59.932	ug/ml#	97
106) Chrysene	13.880	228	3388097	43.998	ug/ml	96
107) Bis(2-ethylhexyl)phtha...	13.945	149	2632420	48.002	ug/ml#	98
108) Di-n-octylphthalate	14.633	149	4417645	45.595	ug/ml#	73
109) Benzo(b)fluoranthene	14.962	252	3618166	54.564	ug/ml#	94
110) Benzo(k)fluoranthene	14.992	252	3209700	46.807	ug/ml#	93
111) Benzo(a)pyrene	15.280	252	3161941	53.187	ug/ml#	93
113) Indeno(1,2,3-cd)pyrene	16.351	276	3147861M6	62.085	ug/mL	
114) Dibenzo(a,h)anthracene	16.380	278	2930895	55.128	ug/ml#	92
115) Benzo(ghi)perylene	16.627	276	2517993	47.199	ug/ml#	89

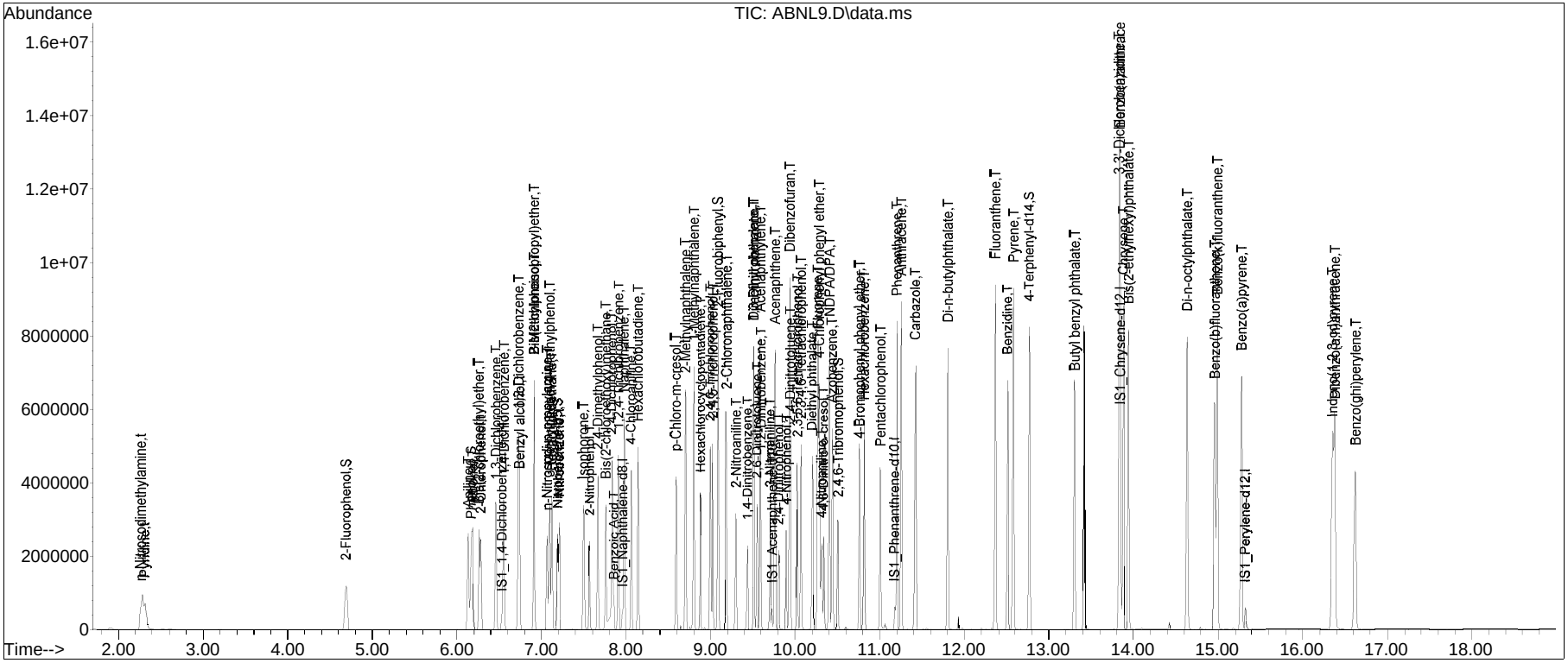
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL9.D
Acq On : 2 Jun 2024 7:34 pm
Operator : SV107:jg
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1929644,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 03 10:59:15 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

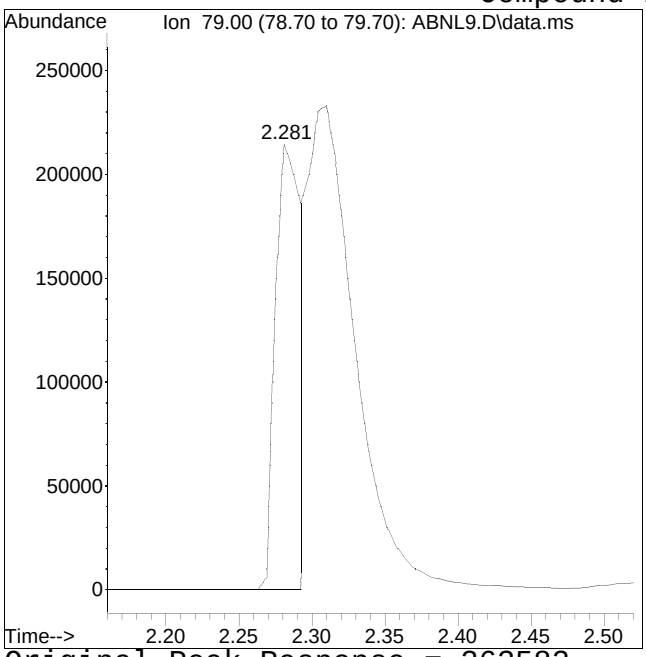
Sub List : ABNical - ABN ical sublistal\AP9L6.D•

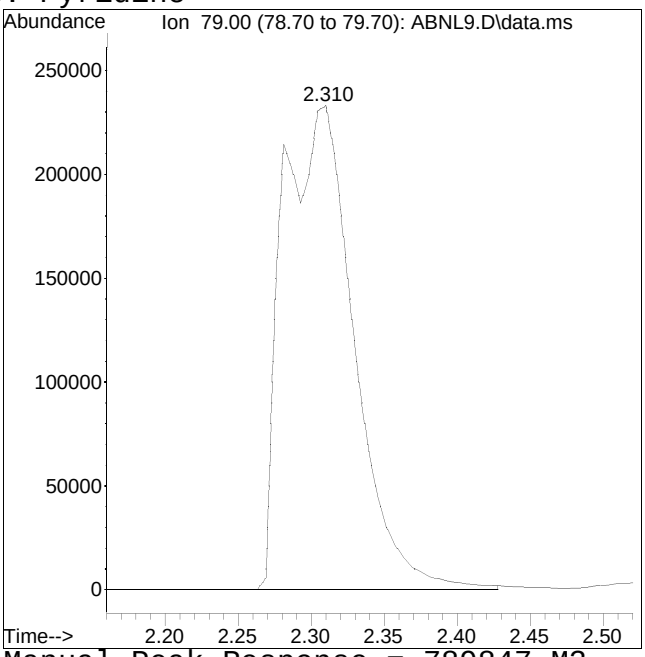


Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL9.D Operator : SV107:jg
Date Inj'd : 6/2/2024 7:34 pm Instrument : SV107
Sample : IL2,32,,ABNL50 Lot# 10691 Quant Date : 6/3/2024 10:22 am

Compound #3: Pyridine



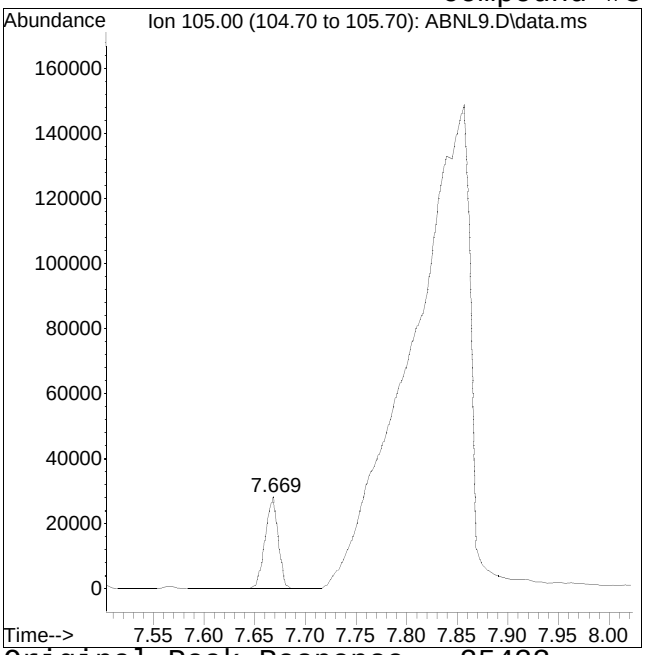


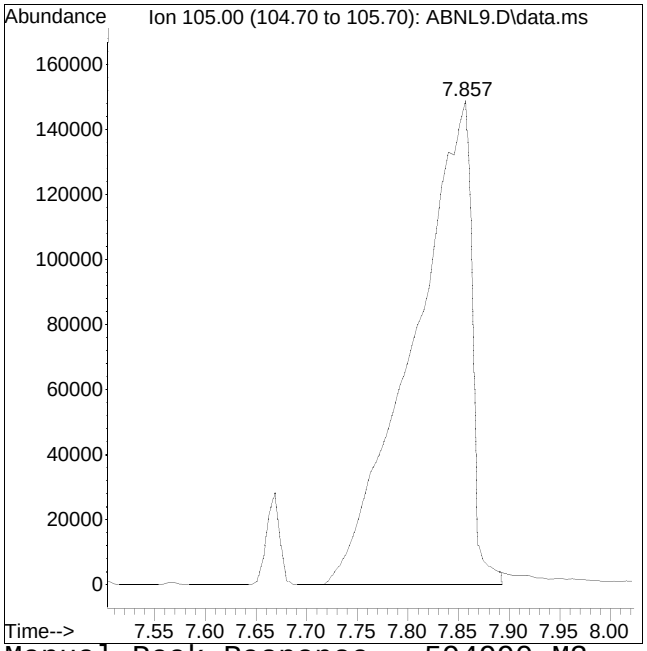
Original Peak Response = 263582 Manual Peak Response = 789847 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL9.D Operator : SV107:jg
Date Inj'd : 6/2/2024 7:34 pm Instrument : SV107
Sample : IL2,32,,ABNL50 Lot# 10691 Quant Date : 6/3/2024 10:22 am

Compound #36: Benzoic Acid





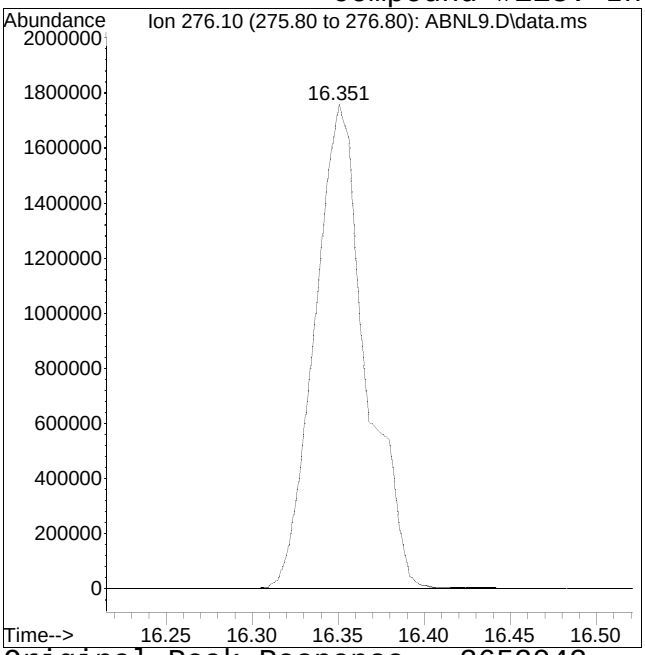
Original Peak Response = 25433 Manual Peak Response = 594990 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

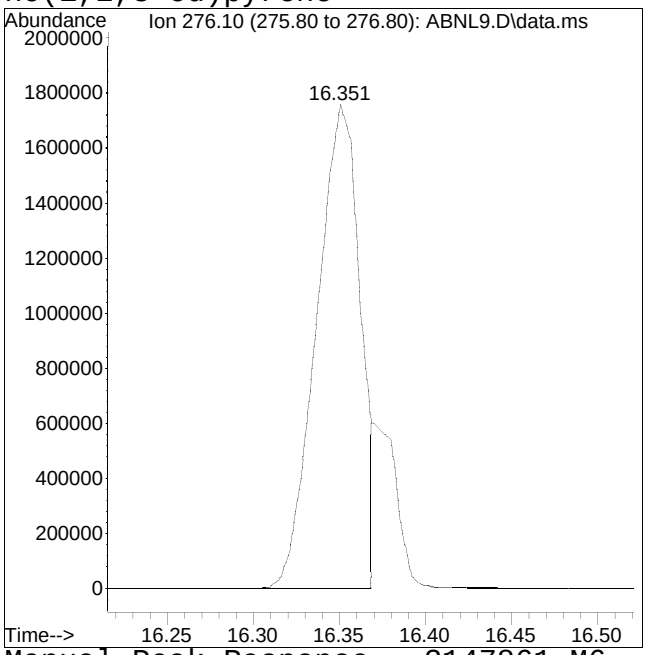
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL9.D Operator : SV107:jg
Date Inj'd : 6/2/2024 7:34 pm Instrument : SV107
Sample : IL2,32,,ABNL50 Lot# 10691 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 3652042



Manual Peak Response = 3147861 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL8.D
Acq On : 2 Jun 2024 7:59 pm
Operator : SV107:jg
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1929644,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 10:58:19 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	51050	4.000	ug/ml	# 0.00
Standard Area 1 = 52051			Recovery = 98.08%			
34) IS1_Naphthalene-d8	7.957	136	194324	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 102.09%			
62) IS1_Acenaphthene-d10	9.728	164	124132	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 100.13%			
87) IS1_Phenanthrene-d10	11.175	188	241731	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 95.83%			
103) IS1_Chrysene-d12	13.839	240	224950	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 96.16%			
112) IS1_Perylene-d12	15.321	264	225904	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 93.71%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.681	112	352552	23.556	ug/ml	-0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 1177.80%#			
7) Phenol-d6	6.163	99	434922	22.917	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1145.85%#			
19) Nitrobenzene-d5	7.187	82	410309	23.569	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2356.90%#			
45) 2-Fluorobiphenyl	9.081	172	1039673	23.249	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2324.90%#			
78) 2,4,6-Tribromophenol	10.504	330	143558	30.949	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1547.45%#			
95) 4-Terphenyl-d14	12.769	244	1351933	25.404	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2540.40%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.252	74	231824	22.034	ug/ml#	66
3) Pyridine	2.281	79	385544	25.211	ug/ml#	61
5) Aniline	6.128	93	563724	25.000	ug/ml	97
6) 2-Chlorophenol	6.275	128	390705	23.770	ug/ml	94
8) Phenol	6.175	94	468001	22.620	ug/ml	98
9) Bis(2-chloroethyl)ether	6.251	93	373487	21.751	ug/ml#	84
10) 1,3-Dichlorobenzene	6.457	146	468066	22.974	ug/ml	98
11) 1,4-Dichlorobenzene	6.551	146	468617	22.426	ug/ml	98
12) 1,2-Dichlorobenzene	6.728	146	461305	23.165	ug/ml	98

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL8.D
Acq On : 2 Jun 2024 7:59 pm
Operator : SV107:jg
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1929644,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 10:58:19 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	340809	25.054	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	528944	22.815	ug/ml#	46
15) 2-Methylphenol	6.904	108	349944	24.161	ug/ml	98
16) Hexachloroethane	7.122	117	176749	23.754	ug/ml#	64
17) n-Nitrosodi-n-propylamine	7.057	70	294321	25.189	ug/ml	93
18) 3-Methylphenol/4-Methy...	7.092	108	370465	23.638	ug/ml	98
20) Nitrobenzene	7.204	77	413557	23.198	ug/ml	99
21) Isophorone	7.487	82	781835	25.448	ug/ml	98
22) 2-Nitrophenol	7.563	139	197511	26.973	ug/ml	90
23) 2,4-Dimethylphenol	7.663	107	365732	29.952	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.757	93	493552	23.811	ug/ml	98
25) 2,4-Dichlorophenol	7.828	162	380051	26.587	ug/ml	94
26) 1,2,4-Trichlorobenzene	7.910	180	428363	22.967	ug/ml	98
35) Naphthalene	7.981	128	1170952	21.478	ug/ml	99
36) Benzoic Acid	7.816	105	277825	22.504	ug/ml	95
37) 4-Chloroaniline	8.057	65	156133	23.384	ug/ml	87
38) Hexachlorobutadiene	8.145	225	251541	22.748	ug/ml	99
39) p-Chloro-m-cresol	8.586	107	358862	25.938	ug/ml	99
40) 2-Methylnaphthalene	8.698	142	828408	22.873	ug/ml	95
41) 1-Methylnaphthalene	8.792	115	281712	22.747	ug/ml	98
42) Hexachlorocyclopentadiene	8.875	237	280242	34.922	ug/ml	99
43) 2,4,6-Trichlorophenol	8.998	196	312004	28.504	ug/ml	99
44) 2,4,5-Trichlorophenol	9.028	196	337250	28.403	ug/ml	97
46) 2-Chloronaphthalene	9.181	162	862228	23.687	ug/ml	95
47) 2-Nitroaniline	9.292	138	243518	22.111	ug/ml	89
48) 1,4-Dinitrobenzene	9.428	168	117852	22.344	ug/ml	79
49) 1,3-Dinitrobenzene	9.504	168	145584	27.950	ug/ml#	1
50) Dimethyl phthalate	9.504	163	1029527	25.609	ug/ml#	98
51) Acenaphthylene	9.586	152	1356661	24.776	ug/ml	98
52) 2,6-Dinitrotoluene	9.545	165	211629	24.307	ug/ml#	81
53) 1,2-Dinitrobenzene	9.586	168	95068	25.522	ug/ml#	1
63) 3-Nitroaniline	9.698	138	223955	23.843	ug/ml	96
64) Acenaphthene	9.763	154	823091	23.523	ug/ml	93
65) 2,4-Dinitrophenol	9.804	184	120610	24.509	ug/ml#	87
66) Dibenzofuran	9.933	168	1300833	22.643	ug/ml	94
67) 2,4-Dinitrotoluene	9.933	165	305368	24.314	ug/ml	94
68) 4-Nitrophenol	9.886	65	182864	23.092	ug/ml#	87
69) 2,3,5,6-Tetrachlorophenol	10.022	232	274188	27.902	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL8.D
Acq On : 2 Jun 2024 7:59 pm
Operator : SV107:jg
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1929644,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 10:58:19 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 2,3,4,6-Tetrachlorophenol	10.063	232	261810	26.280	ug/ml	97
71) Diethyl phthalate	10.198	149	990417	24.518	ug/ml	97
72) Fluorene	10.269	166	987372	22.865	ug/ml	93
73) 4-Chlorophenyl phenyl ...	10.280	204	489879	22.025	ug/ml	90
74) 4-Nitroaniline	10.298	138	227044	23.991	ug/ml	85
75) 4,6-Dinitro-o-cresol	10.333	198	165521	25.144	ug/ml#	61
76) NDPA/DPA	10.404	169	848079	24.477	ug/ml	94
77) Azobenzene	10.433	77	953697	23.421	ug/ml	96
79) 4-Bromophenyl phenyl e...	10.757	248	274899	23.545	ug/ml#	89
80) Hexachlorobenzene	10.810	284	306799	23.810	ug/ml#	87
81) Pentachlorophenol	11.004	266	210091	25.965	ug/ml	99
88) Phenanthrene	11.198	178	1516863	22.574	ug/ml	98
89) Anthracene	11.245	178	1559998	24.573	ug/ml	98
90) Carbazole	11.416	167	1455059	25.268	ug/ml	97
91) Di-n-butylphthalate	11.798	149	1846222	30.130	ug/ml	98
92) Fluoranthene	12.357	202	1819916	25.179	ug/ml#	92
93) Benzidine	12.510	184	1205192	30.881	ug/ml#	95
94) Pyrene	12.580	202	1934804	24.736	ug/ml	98
96) Butyl benzyl phthalate	13.298	149	829584	26.448	ug/ml	93
104) Benzo(a)anthracene	13.833	228	1884961	24.859	ug/ml	97
105) 3,3'-Dichlorobenzidine	13.827	252	714087	31.228	ug/ml#	96
106) Chrysene	13.868	228	1707374	22.372	ug/ml	97
107) Bis(2-ethylhexyl)phtha...	13.939	149	1290107	27.130	ug/ml#	97
108) Di-n-octylphthalate	14.627	149	2208702	27.076	ug/ml#	73
109) Benzo(b)fluoranthene	14.951	252	1772450	26.970	ug/ml#	93
110) Benzo(k)fluoranthene	14.980	252	1628489	23.962	ug/ml#	95
111) Benzo(a)pyrene	15.268	252	1568036	26.614	ug/ml#	93
113) Indeno(1,2,3-cd)pyrene	16.351	276	1567480M6	29.474	ug/mL	
114) Dibenzo(a,h)anthracene	16.368	278	1508686	27.054	ug/ml#	91
115) Benzo(ghi)perylene	16.621	276	1341500	23.974	ug/ml#	89

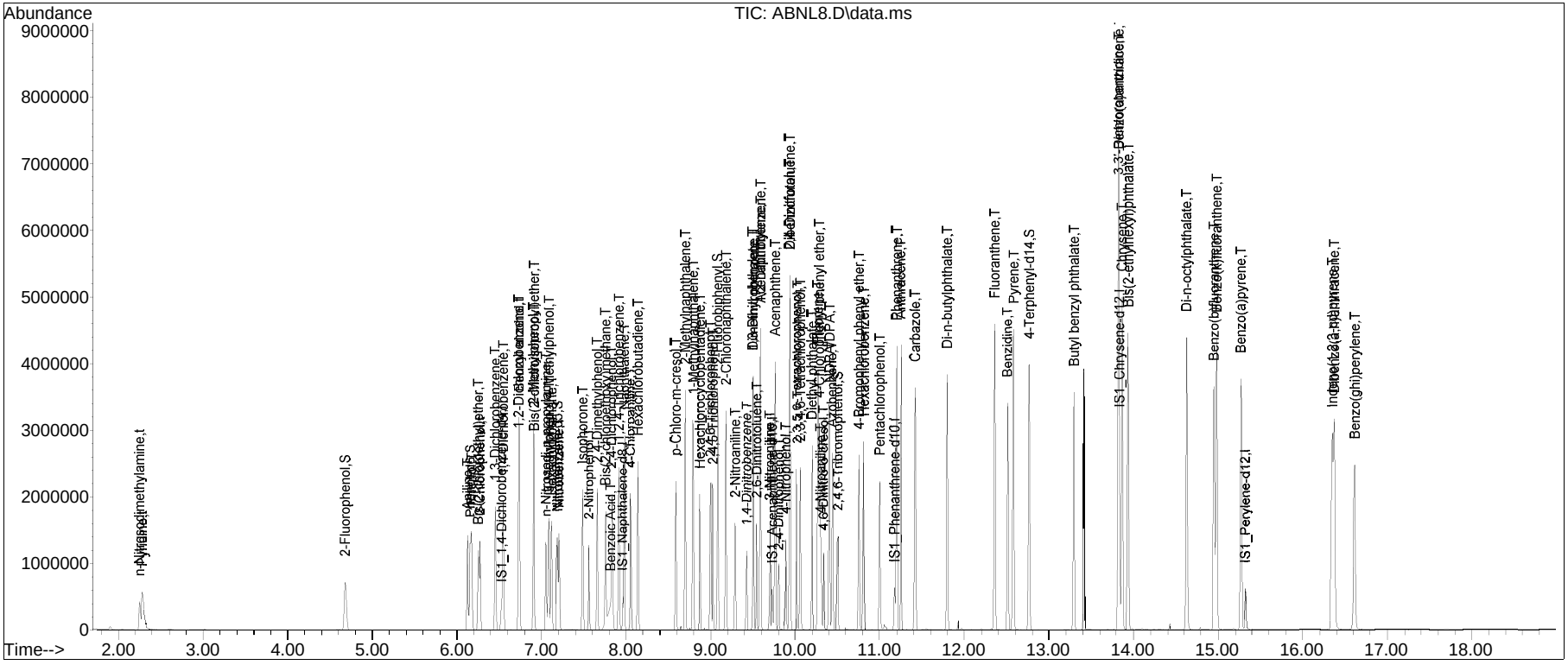
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL8.D
Acq On : 2 Jun 2024 7:59 pm
Operator : SV107:jg
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1929644,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 10:58:19 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

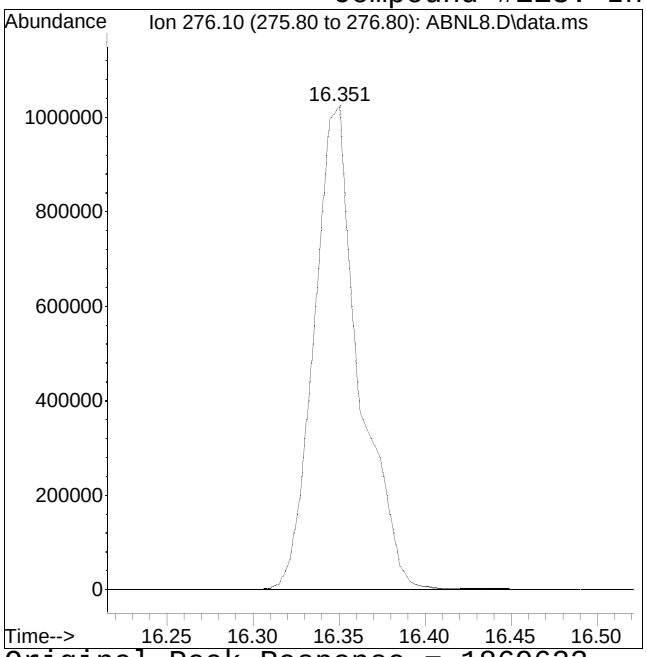
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



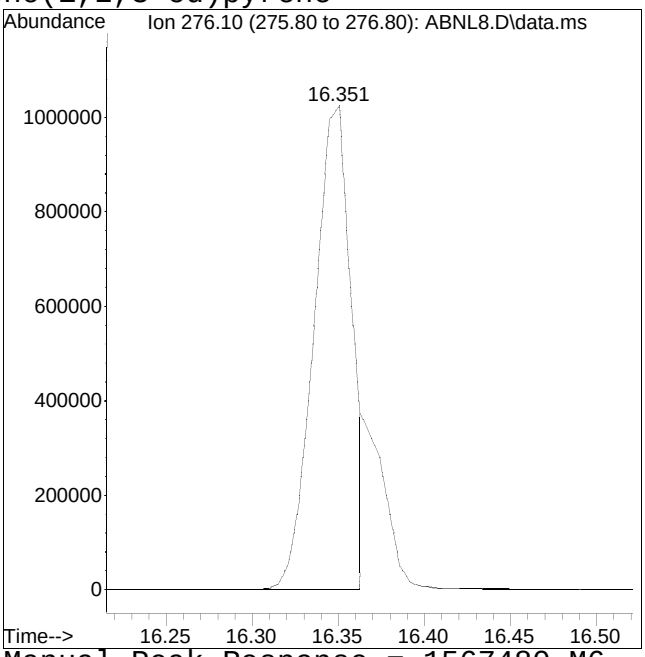
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL8.D Operator : SV107:jg
Date Inj'd : 6/2/2024 7:59 pm Instrument : SV107
Sample : IL3,32,,ABNL25 Lot# 10692 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 1869623



Manual Peak Response = 1567480 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL7.D
Acq On : 2 Jun 2024 8:24 pm
Operator : SV107:jg
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1929644,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 03 10:57:33 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	50580	4.000	ug/ml	# 0.00
Standard Area 1 = 52051			Recovery = 97.17%			
34) IS1_Naphthalene-d8	7.957	136	189779	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 99.70%			
62) IS1_Acenaphthene-d10	9.728	164	120288	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 97.03%			
87) IS1_Phenanthrene-d10	11.175	188	242511	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 96.14%			
103) IS1_Chrysene-d12	13.839	240	225785	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 96.52%			
112) IS1_Perylene-d12	15.327	264	227351	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 94.31%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.681	112	140251	9.458	ug/ml	-0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 472.90%#			
7) Phenol-d6	6.157	99	171152	9.102	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 455.10%#			
19) Nitrobenzene-d5	7.181	82	158345	9.180	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 918.00%#			
45) 2-Fluorobiphenyl	9.081	172	416312	9.533	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 953.30%#			
78) 2,4,6-Tribromophenol	10.498	330	59817	13.308	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 665.40%#			
95) 4-Terphenyl-d14	12.763	244	536294	10.045	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 1004.50%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.252	74	91909	8.817	ug/ml#	68
3) Pyridine	2.287	79	149892	9.892	ug/ml#	59
5) Aniline	6.128	93	224771	10.061	ug/ml	97
6) 2-Chlorophenol	6.269	128	153985	9.455	ug/ml	94
8) Phenol	6.175	94	185122	9.031	ug/ml	98
9) Bis(2-chloroethyl)ether	6.251	93	150367	8.838	ug/ml#	84
10) 1,3-Dichlorobenzene	6.457	146	187197	9.274	ug/ml	98
11) 1,4-Dichlorobenzene	6.551	146	187019	9.033	ug/ml	98
12) 1,2-Dichlorobenzene	6.728	146	181846	9.216	ug/ml	98

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL7.D
Acq On : 2 Jun 2024 8:24 pm
Operator : SV107:jg
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1929644,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 03 10:57:33 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	131627	9.766	ug/ml	98
14) Bis(2-chloroisopropyl)...	6.910	45	210116	9.147	ug/ml#	47
15) 2-Methylphenol	6.904	108	136533	9.514	ug/ml	98
16) Hexachloroethane	7.116	117	70827	9.607	ug/ml#	62
17) n-Nitrosodi-n-propylamine	7.057	70	116160	10.034	ug/ml#	92
18) 3-Methylphenol/4-Methy...	7.087	108	145224	9.352	ug/ml	97
20) Nitrobenzene	7.204	77	163172	9.238	ug/ml	98
21) Isophorone	7.481	82	312334	10.261	ug/ml	96
22) 2-Nitrophenol	7.563	139	73882	10.183	ug/ml	91
23) 2,4-Dimethylphenol	7.657	107	142398	11.770	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.751	93	196961	9.591	ug/ml	100
25) 2,4-Dichlorophenol	7.828	162	149306	10.542	ug/ml	94
26) 1,2,4-Trichlorobenzene	7.910	180	168900	9.140	ug/ml	97
35) Naphthalene	7.975	128	462458	8.686	ug/ml	99
36) Benzoic Acid	7.775	105	97433	8.547	ug/ml	94
37) 4-Chloroaniline	8.057	65	61841	9.484	ug/ml	88
38) Hexachlorobutadiene	8.145	225	102228	9.466	ug/ml	98
39) p-Chloro-m-cresol	8.581	107	141106	10.443	ug/ml	97
40) 2-Methylnaphthalene	8.698	142	332525	9.401	ug/ml	95
41) 1-Methylnaphthalene	8.792	115	113176	9.357	ug/ml	97
42) Hexachlorocyclopentadiene	8.875	237	106521	13.592	ug/ml	98
43) 2,4,6-Trichlorophenol	8.992	196	125341	11.725	ug/ml	98
44) 2,4,5-Trichlorophenol	9.022	196	129505	11.168	ug/ml	99
46) 2-Chloronaphthalene	9.181	162	342590	9.637	ug/ml	95
47) 2-Nitroaniline	9.292	138	93043	8.819	ug/ml	90
48) 1,4-Dinitrobenzene	9.422	168	43565	8.665	ug/ml	77
49) 1,3-Dinitrobenzene	9.498	168	53332	10.484	ug/ml#	1
50) Dimethyl phthalate	9.498	163	403736	10.283	ug/ml#	98
51) Acenaphthylene	9.586	152	537132	10.044	ug/ml	98
52) 2,6-Dinitrotoluene	9.539	165	81168	9.623	ug/ml#	83
53) 1,2-Dinitrobenzene	9.581	168	36142	10.016	ug/ml#	1
63) 3-Nitroaniline	9.698	138	85128	9.353	ug/ml	99
64) Acenaphthene	9.757	154	318784	9.402	ug/ml	93
65) 2,4-Dinitrophenol	9.798	184	41498	9.163	ug/ml	89
66) Dibenzofuran	9.928	168	526706	9.461	ug/ml	93
67) 2,4-Dinitrotoluene	9.928	165	112821	9.357	ug/ml	94
68) 4-Nitrophenol	9.881	65	71517	9.320	ug/ml#	89
69) 2,3,5,6-Tetrachlorophenol	10.022	232	110202	11.573	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL7.D
Acq On : 2 Jun 2024 8:24 pm
Operator : SV107:jg
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1929644,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 03 10:57:33 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 2,3,4,6-Tetrachlorophenol	10.063	232	105281	10.906	ug/ml	97
71) Diethyl phthalate	10.192	149	399950	10.217	ug/ml	97
72) Fluorene	10.263	166	400866	9.580	ug/ml	92
73) 4-Chlorophenyl phenyl ...	10.281	204	203850	9.458	ug/ml	89
74) 4-Nitroaniline	10.292	138	90166	9.832	ug/ml	84
75) 4,6-Dinitro-o-cresol	10.328	198	61794	9.921	ug/ml#	61
76) NDPA/DPA	10.398	169	346541	10.322	ug/ml	96
77) Azobenzene	10.433	77	391138	9.913	ug/ml	96
79) 4-Bromophenyl phenyl e...	10.757	248	113207	10.006	ug/ml#	88
80) Hexachlorobenzene	10.810	284	126399	10.123	ug/ml#	87
81) Pentachlorophenol	11.004	266	82964	10.741	ug/ml	99
88) Phenanthrene	11.192	178	617237	9.156	ug/ml	99
89) Anthracene	11.245	178	640850	10.062	ug/ml	99
90) Carbazole	11.410	167	585984	10.143	ug/ml	98
91) Di-n-butylphthalate	11.798	149	738655	12.016	ug/ml	99
92) Fluoranthene	12.357	202	737284	10.168	ug/ml#	92
93) Benzidine	12.510	184	483670	12.353	ug/ml#	95
94) Pyrene	12.574	202	780477	9.946	ug/ml	99
96) Butyl benzyl phthalate	13.298	149	315052	10.773	ug/ml	92
104) Benzo(a)anthracene	13.827	228	782320	10.279	ug/ml	98
105) 3,3'-Dichlorobenzidine	13.827	252	281272	12.255	ug/ml#	97
106) Chrysene	13.868	228	707807	9.240	ug/ml	98
107) Bis(2-ethylhexyl)phtha...	13.945	149	509174	11.959	ug/ml#	95
108) Di-n-octylphthalate	14.633	149	832000	11.991	ug/ml#	74
109) Benzo(b)fluoranthene	14.957	252	709383	10.754	ug/ml#	94
110) Benzo(k)fluoranthene	14.980	252	689771	10.112	ug/ml#	93
111) Benzo(a)pyrene	15.274	252	632662	10.698	ug/ml#	93
113) Indeno(1,2,3-cd)pyrene	16.345	276	632674M6	11.821	ug/mL	
114) Dibenzo(a,h)anthracene	16.374	278	627698	11.184	ug/ml#	91
115) Benzo(ghi)perylene	16.615	276	579928	10.298	ug/ml#	88

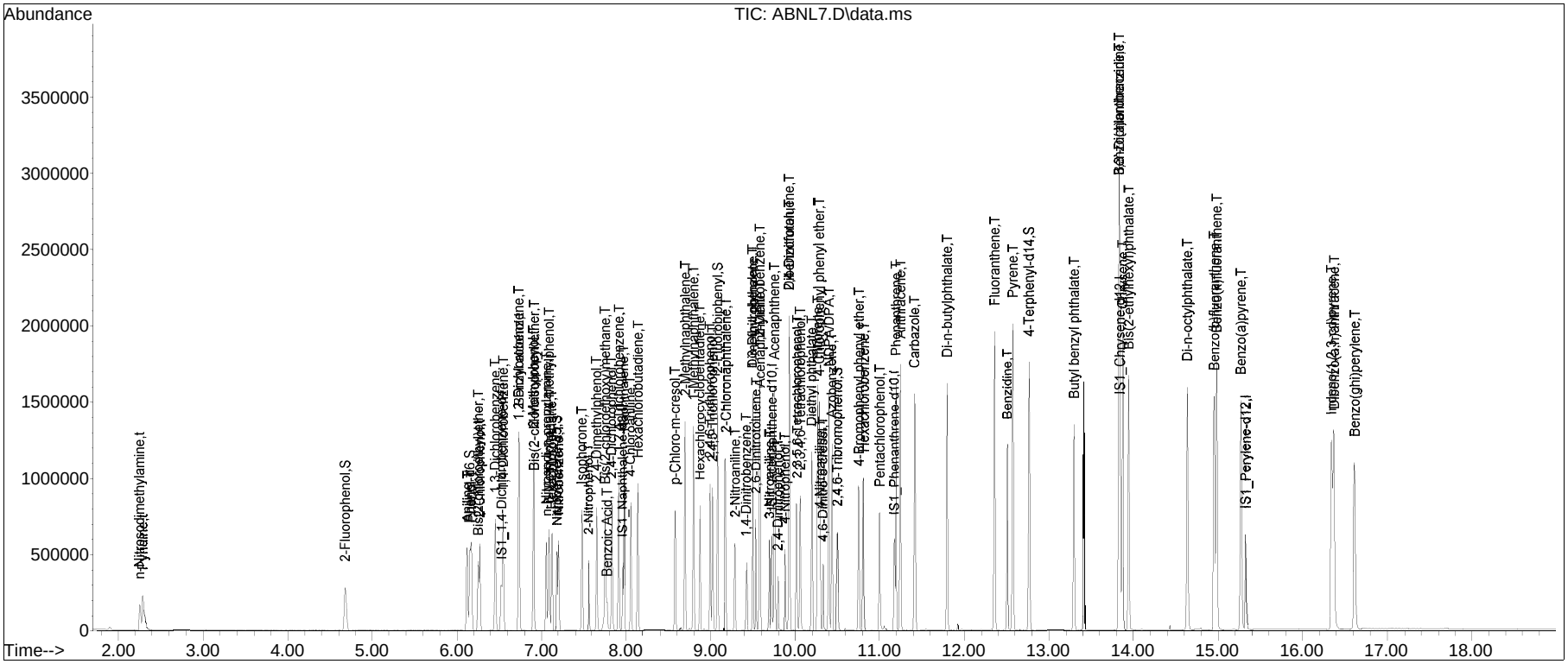
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL7.D
Acq On : 2 Jun 2024 8:24 pm
Operator : SV107:jg
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1929644,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 03 10:57:33 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

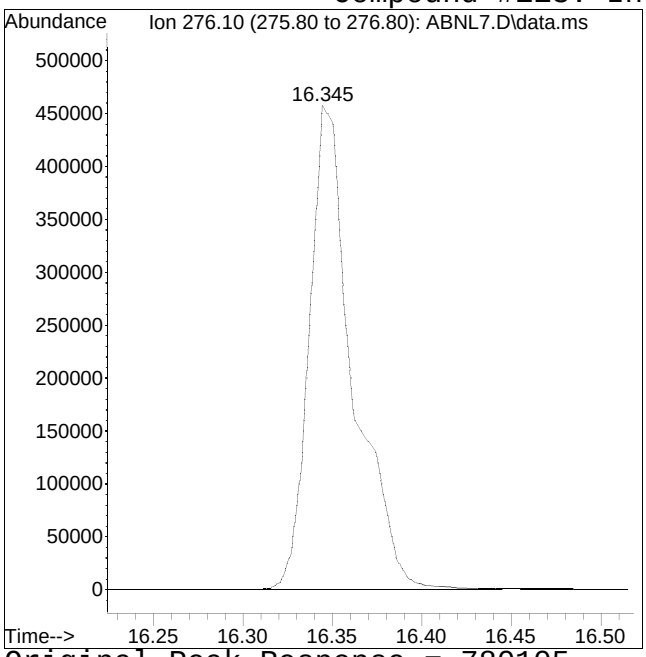
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



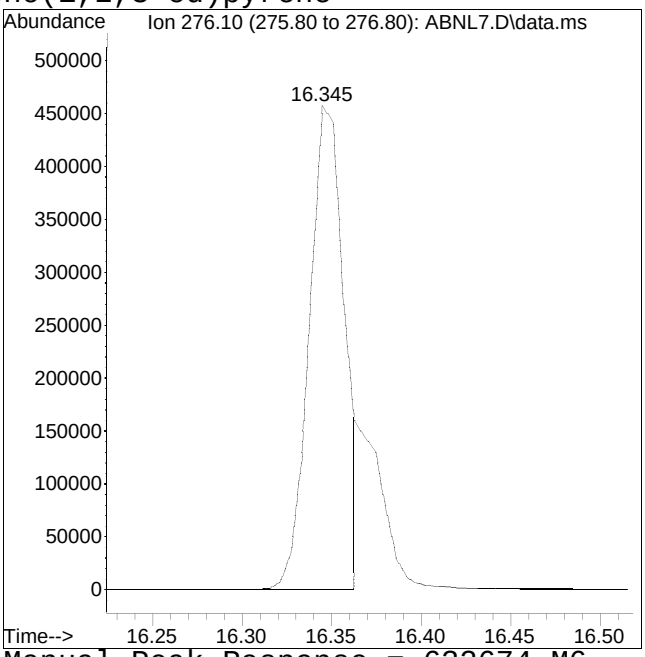
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL7.D Operator : SV107:jg
Date Inj'd : 6/2/2024 8:24 pm Instrument : SV107
Sample : IL4,32,,ABNL10 Lot# 10693 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 780105



Manual Peak Response = 632674 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL6.D
Acq On : 2 Jun 2024 8:50 pm
Operator : SV107:jg
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1929644,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 10:56:31 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	52051	4.000	ug/ml	0.00
Standard Area 1 = 52051			Recovery = 100.00%			
34) IS1_Naphthalene-d8	7.957	136	190351	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 100.00%			
62) IS1_Acenaphthene-d10	9.728	164	123969	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 100.00%			
87) IS1_Phenanthrene-d10	11.169	188	252252	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 100.00%			
103) IS1_Chrysene-d12	13.839	240	233929	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 100.00%			
112) IS1_Perylene-d12	15.321	264	241074	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 100.00%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.693	112	67481	4.422	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 221.10%#			
7) Phenol-d6	6.157	99	82234	4.250	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 212.50%#			
19) Nitrobenzene-d5	7.187	82	75078	4.230	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 423.00%#			
45) 2-Fluorobiphenyl	9.081	172	195530	4.464	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 446.40%#			
78) 2,4,6-Tribromophenol	10.498	330	27324	5.898	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 294.90%#			
95) 4-Terphenyl-d14	12.763	244	252334	4.544	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 454.40%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.269	74	44897	4.185	ug/ml#	68
3) Pyridine	2.316	79	74928	4.805	ug/ml#	60
5) Aniline	6.128	93	106131	4.616	ug/ml	96
6) 2-Chlorophenol	6.275	128	73258	4.371	ug/ml	95
8) Phenol	6.175	94	88385	4.190	ug/ml	98
9) Bis(2-chloroethyl)ether	6.251	93	71054	4.058	ug/ml#	83
10) 1,3-Dichlorobenzene	6.457	146	88597	4.265	ug/ml	98
11) 1,4-Dichlorobenzene	6.551	146	90239	4.235	ug/ml	98
12) 1,2-Dichlorobenzene	6.728	146	86995	4.285	ug/ml	97

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL6.D
Acq On : 2 Jun 2024 8:50 pm
Operator : SV107:jg
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1929644,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 10:56:31 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	61710	4.449	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	97707	4.133	ug/ml#	46
15) 2-Methylphenol	6.904	108	64538	4.370	ug/ml	98
16) Hexachloroethane	7.122	117	33608	4.430	ug/ml#	61
17) n-Nitrosodi-n-propylamine	7.057	70	54342	4.561	ug/ml	93
18) 3-Methylphenol/4-Methy...	7.087	108	70342	4.402	ug/ml	99
20) Nitrobenzene	7.204	77	77212	4.248	ug/ml	97
21) Isophorone	7.481	82	146190	4.667	ug/ml	97
22) 2-Nitrophenol	7.563	139	32431	4.344	ug/ml#	91
23) 2,4-Dimethylphenol	7.657	107	68596	5.510	ug/ml	99
24) Bis(2-chloroethoxy)met...	7.751	93	91731	4.340	ug/ml	99
25) 2,4-Dichlorophenol	7.828	162	71051	4.875	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.910	180	79423	4.177	ug/ml	97
35) Naphthalene	7.975	128	219752	4.115	ug/ml	99
36) Benzoic Acid	7.751	105	39209	3.814	ug/ml	93
37) 4-Chloroaniline	8.057	65	28470	4.353	ug/ml	86
38) Hexachlorobutadiene	8.145	225	46528	4.296	ug/ml	99
39) p-Chloro-m-cresol	8.581	107	65253	4.815	ug/ml	98
40) 2-Methylnaphthalene	8.698	142	155750	4.390	ug/ml	95
41) 1-Methylnaphthalene	8.792	115	52377	4.318	ug/ml	97
42) Hexachlorocyclopentadiene	8.875	237	46736	5.945	ug/ml	98
43) 2,4,6-Trichlorophenol	8.992	196	57691	5.380	ug/ml	98
44) 2,4,5-Trichlorophenol	9.022	196	60992	5.244	ug/ml	99
46) 2-Chloronaphthalene	9.175	162	160578	4.503	ug/ml	96
47) 2-Nitroaniline	9.286	138	41476	4.073	ug/ml	90
48) 1,4-Dinitrobenzene	9.422	168	18043	3.774	ug/ml	82
49) 1,3-Dinitrobenzene	9.498	168	23649	4.635	ug/ml#	1
50) Dimethyl phthalate	9.492	163	192449	4.887	ug/ml#	98
51) Acenaphthylene	9.581	152	249719	4.656	ug/ml	98
52) 2,6-Dinitrotoluene	9.539	165	37890	4.546	ug/ml#	81
53) 1,2-Dinitrobenzene	9.581	168	16640	4.669	ug/ml#	1
63) 3-Nitroaniline	9.692	138	39765	4.239	ug/ml	98
64) Acenaphthene	9.757	154	150990	4.321	ug/ml	92
65) 2,4-Dinitrophenol	9.798	184	17570	4.186	ug/ml#	88
66) Dibenzofuran	9.928	168	248513	4.331	ug/ml	92
67) 2,4-Dinitrotoluene	9.928	165	50309	4.128	ug/ml	93
68) 4-Nitrophenol	9.880	65	32068	4.055	ug/ml#	89
69) 2,3,5,6-Tetrachlorophenol	10.016	232	49938	5.089	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL6.D
Acq On : 2 Jun 2024 8:50 pm
Operator : SV107:jg
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1929644,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 10:56:31 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	49836	5.009	ug/ml	99
71)	Diethyl phthalate	10.192	149	185259	4.592	ug/ml	97
72)	Fluorene	10.263	166	191054	4.430	ug/ml	93
73)	4-Chlorophenyl phenyl ...	10.280	204	95118	4.282	ug/ml	89
74)	4-Nitroaniline	10.286	138	38840	4.109	ug/ml#	87
75)	4,6-Dinitro-o-cresol	10.322	198	24123	3.994	ug/ml#	63
76)	NDPA/DPA	10.398	169	163792	4.734	ug/ml	95
77)	Azobenzene	10.433	77	185513	4.562	ug/ml	97
79)	4-Bromophenyl phenyl e...	10.751	248	53585	4.596	ug/ml#	87
80)	Hexachlorobenzene	10.810	284	60424	4.696	ug/ml#	86
81)	Pentachlorophenol	11.004	266	36681	4.762	ug/ml	98
88)	Phenanthrene	11.192	178	298395	4.256	ug/ml	99
89)	Anthracene	11.245	178	297441	4.490	ug/ml	98
90)	Carbazole	11.410	167	277150	4.612	ug/ml	98
91)	Di-n-butylphthalate	11.798	149	329073	5.146	ug/ml	99
92)	Fluoranthene	12.357	202	344549	4.568	ug/ml#	91
93)	Benzidine	12.504	184	212574	5.220	ug/ml#	95
94)	Pyrene	12.574	202	366283	4.488	ug/ml	99
96)	Butyl benzyl phthalate	13.292	149	133030	4.681	ug/ml	93
104)	Benzo(a)anthracene	13.827	228	356055	4.515	ug/ml	99
105)	3,3'-Dichlorobenzidine	13.821	252	126297	5.311	ug/ml#	96
106)	Chrysene	13.863	228	340032	4.284	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.939	149	216588	5.250	ug/ml#	95
108)	Di-n-octylphthalate	14.627	149	335349	5.215	ug/ml#	74
109)	Benzo(b)fluoranthene	14.951	252	323786	4.738	ug/ml#	94
110)	Benzo(k)fluoranthene	14.974	252	322366	4.561	ug/ml#	93
111)	Benzo(a)pyrene	15.268	252	286717	4.680	ug/ml#	93
113)	Indeno(1,2,3-cd)pyrene	16.345	276	267407M6	4.712	ug/mL	
114)	Dibenzo(a,h)anthracene	16.368	278	289650	4.867	ug/ml#	90
115)	Benzo(ghi)perylene	16.615	276	264525	4.430	ug/ml#	88

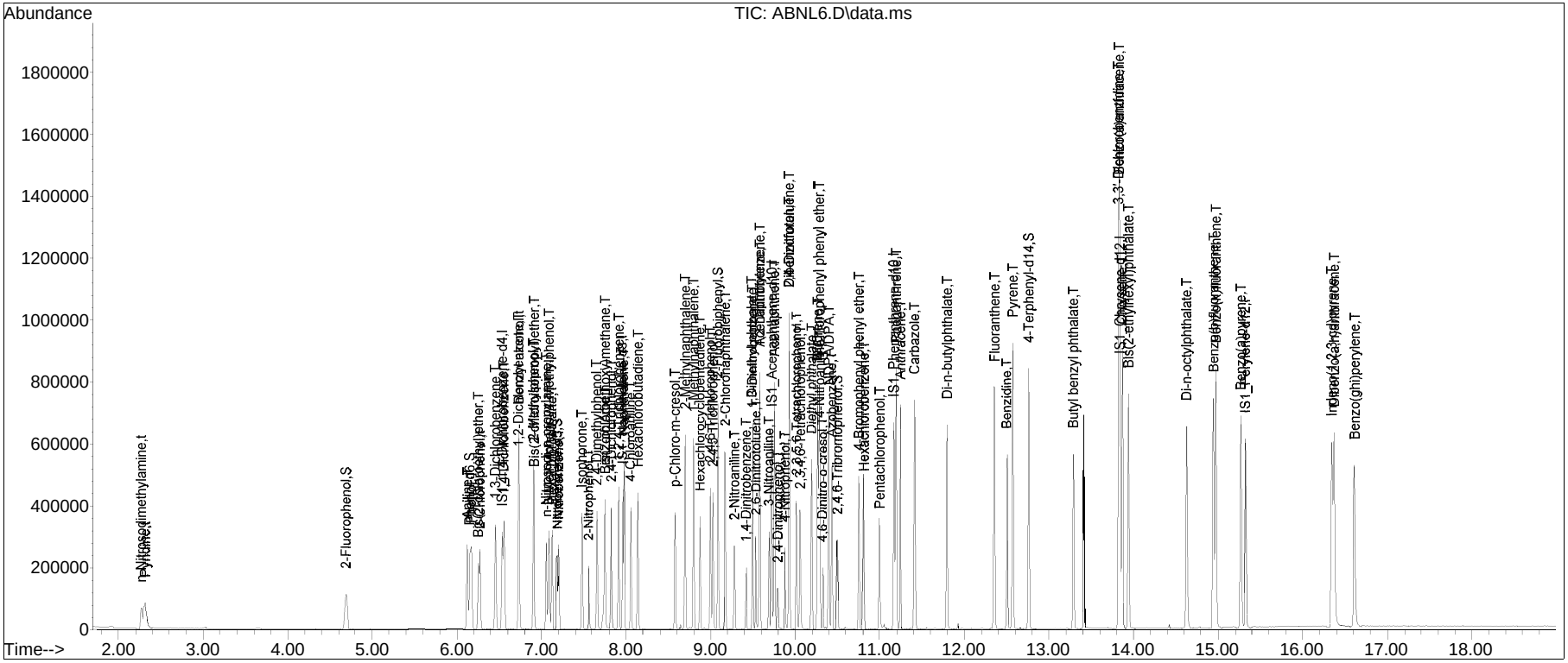
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL6.D
Acq On : 2 Jun 2024 8:50 pm
Operator : SV107:jg
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1929644,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 10:56:31 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

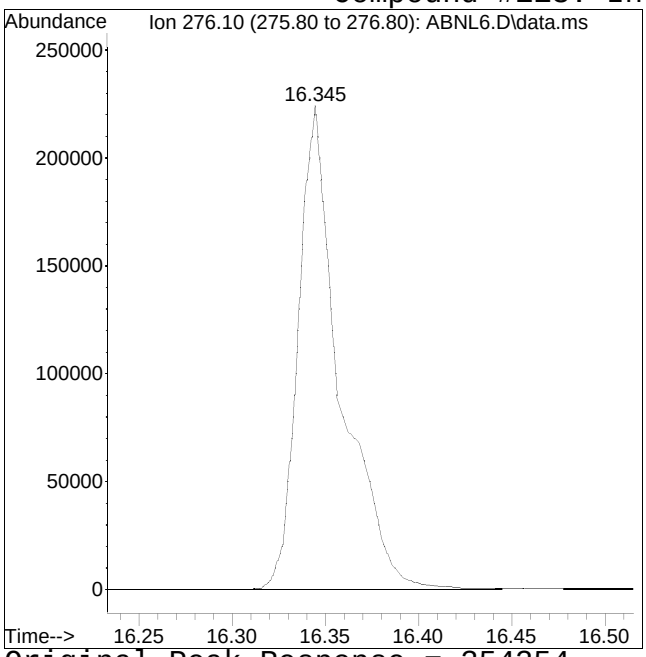
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



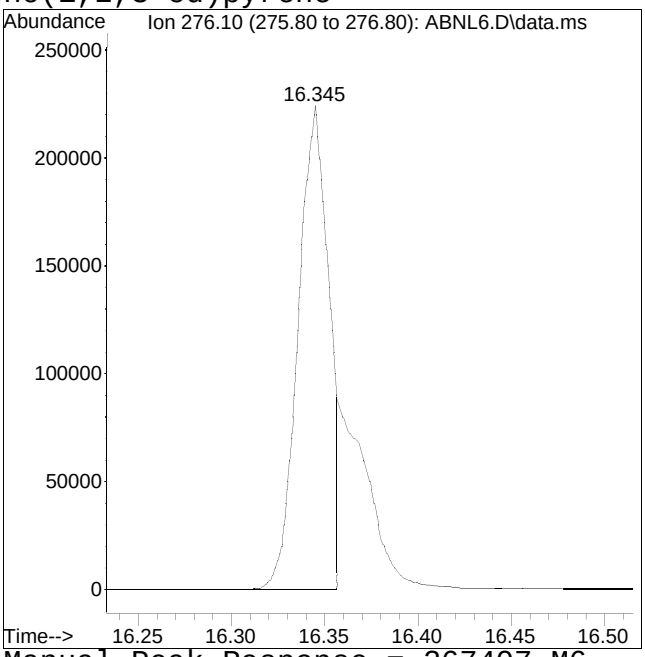
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL6.D Operator : SV107:jg
Date Inj'd : 6/2/2024 8:50 pm Instrument : SV107
Sample : IL5,32,,ABNL5 Lot# 10694 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 354354



Manual Peak Response = 267407 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL5.D
Acq On : 2 Jun 2024 9:15 pm
Operator : SV107:jg
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1929644,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 03 10:55:50 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.534	152	51948	4.000	ug/ml		0.00
Standard Area 1 = 52051			Recovery = 99.80%				
34) IS1_Naphthalene-d8	7.957	136	191507	4.000	ug/ml		0.00
Standard Area 1 = 190351			Recovery = 100.61%				
62) IS1_Acenaphthene-d10	9.728	164	118652	4.000	ug/ml		0.00
Standard Area 1 = 123969			Recovery = 95.71%				
87) IS1_Phenanthrene-d10	11.169	188	243366	4.000	ug/ml		0.00
Standard Area 1 = 252252			Recovery = 96.48%				
103) IS1_Chrysene-d12	13.839	240	223632	4.000	ug/ml	#	0.00
Standard Area 1 = 233929			Recovery = 95.60%				
112) IS1_Perylene-d12	15.327	264	232683	4.000	ug/ml		0.00
Standard Area 1 = 241074			Recovery = 96.52%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.693	112	32992	2.166	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 108.30%				
7) Phenol-d6	6.157	99	40252	2.084	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 104.20%				
19) Nitrobenzene-d5	7.187	82	34681	1.958	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 195.80%#				
45) 2-Fluorobiphenyl	9.081	172	98186	2.228	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 222.80%#				
78) 2,4,6-Tribromophenol	10.498	330	12813	2.890	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 144.50%#				
95) 4-Terphenyl-d14	12.763	244	126539	2.362	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 236.20%#				
Target Compounds							Qvalue
2) n-Nitrosodimethylamine	2.269	74	21694	2.026	ug/ml	#	69
3) Pyridine	2.316	79	36569	2.350	ug/ml	#	60
5) Aniline	6.128	93	52329	2.281	ug/ml		97
6) 2-Chlorophenol	6.269	128	35639	2.131	ug/ml		94
8) Phenol	6.169	94	43788	2.080	ug/ml		98
9) Bis(2-chloroethyl)ether	6.251	93	35010	2.004	ug/ml	#	85
10) 1,3-Dichlorobenzene	6.457	146	43832	2.114	ug/ml		98
11) 1,4-Dichlorobenzene	6.551	146	44202	2.079	ug/ml		99
12) 1,2-Dichlorobenzene	6.728	146	42719	2.108	ug/ml		98

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL5.D
Acq On : 2 Jun 2024 9:15 pm
Operator : SV107:jg
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1929644,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 03 10:55:50 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	29820	2.154	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	47835	2.028	ug/ml#	46
15) 2-Methylphenol	6.904	108	30807	2.090	ug/ml	99
16) Hexachloroethane	7.122	117	15915	2.102	ug/ml#	60
17) n-Nitrosodi-n-propylamine	7.057	70	26538	2.232	ug/ml#	92
18) 3-Methylphenol/4-Methy...	7.087	108	33130	2.077	ug/ml	97
20) Nitrobenzene	7.204	77	36114	1.991	ug/ml	98
21) Isophorone	7.481	82	71350	2.282	ug/ml	97
22) 2-Nitrophenol	7.563	139	15185	2.038	ug/ml	90
23) 2,4-Dimethylphenol	7.657	107	33295	2.680	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.751	93	45647	2.164	ug/ml	98
25) 2,4-Dichlorophenol	7.828	162	33869	2.328	ug/ml	93
26) 1,2,4-Trichlorobenzene	7.910	180	39855	2.100	ug/ml	96
35) Naphthalene	7.975	128	112832	2.100	ug/ml	99
36) Benzoic Acid	7.734	105	14867	1.830	ug/ml	93
37) 4-Chloroaniline	8.057	65	14733	2.239	ug/ml	90
38) Hexachlorobutadiene	8.145	225	23200	2.129	ug/ml	99
39) p-Chloro-m-cresol	8.581	107	31428	2.305	ug/ml	97
40) 2-Methylnaphthalene	8.698	142	76915	2.155	ug/ml	96
41) 1-Methylnaphthalene	8.792	115	26576	2.177	ug/ml	95
42) Hexachlorocyclopentadiene	8.875	237	22844	2.889	ug/ml	98
43) 2,4,6-Trichlorophenol	8.992	196	27480	2.547	ug/ml	100
44) 2,4,5-Trichlorophenol	9.022	196	29318	2.505	ug/ml	98
46) 2-Chloronaphthalene	9.175	162	80609	2.247	ug/ml	96
47) 2-Nitroaniline	9.286	138	17978	1.912	ug/ml	95
48) 1,4-Dinitrobenzene	9.422	168	7891	1.829	ug/ml	85
49) 1,3-Dinitrobenzene	9.498	168	10078	1.963	ug/ml#	1
50) Dimethyl phthalate	9.492	163	96348	2.432	ug/ml#	98
51) Acenaphthylene	9.581	152	122095	2.263	ug/ml	99
52) 2,6-Dinitrotoluene	9.534	165	17364	2.140	ug/ml#	83
53) 1,2-Dinitrobenzene	9.581	168	7673	2.212	ug/ml#	1
63) 3-Nitroaniline	9.692	138	18646	2.077	ug/ml	99
64) Acenaphthene	9.757	154	73152	2.187	ug/ml	91
65) 2,4-Dinitrophenol	9.798	184	7098	2.180	ug/ml	88
66) Dibenzofuran	9.928	168	124602	2.269	ug/ml	92
67) 2,4-Dinitrotoluene	9.928	165	22438	1.998	ug/ml	93
68) 4-Nitrophenol	9.881	65	15543	2.053	ug/ml#	91
69) 2,3,5,6-Tetrachlorophenol	10.016	232	24185	2.575	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL5.D
Acq On : 2 Jun 2024 9:15 pm
Operator : SV107:jg
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1929644,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 03 10:55:50 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	23877	2.507	ug/ml	98
71)	Diethyl phthalate	10.192	149	94958	2.459	ug/ml	97
72)	Fluorene	10.263	166	95021	2.302	ug/ml	93
73)	4-Chlorophenyl phenyl ...	10.281	204	48015	2.258	ug/ml	89
74)	4-Nitroaniline	10.286	138	19073	2.108	ug/ml#	85
75)	4,6-Dinitro-o-cresol	10.322	198	10235	1.982	ug/ml#	65
76)	NDPA/DPA	10.398	169	82088	2.479	ug/ml	95
77)	Azobenzene	10.433	77	91105	2.341	ug/ml	96
79)	4-Bromophenyl phenyl e...	10.757	248	26481	2.373	ug/ml#	87
80)	Hexachlorobenzene	10.810	284	30207	2.453	ug/ml#	85
81)	Pentachlorophenol	11.004	266	17540	2.514	ug/ml	99
88)	Phenanthrene	11.192	178	148667	2.198	ug/ml	99
89)	Anthracene	11.245	178	149282	2.336	ug/ml	99
90)	Carbazole	11.410	167	136900	2.361	ug/ml	98
91)	Di-n-butylphthalate	11.798	149	151033	2.448	ug/ml	99
92)	Fluoranthene	12.357	202	171304	2.354	ug/ml#	92
93)	Benzidine	12.504	184	98680	2.512	ug/ml#	94
94)	Pyrene	12.574	202	183111	2.325	ug/ml	99
96)	Butyl benzyl phthalate	13.292	149	59665	2.388	ug/ml	94
104)	Benzo(a)anthracene	13.827	228	176990	2.348	ug/ml	99
105)	3,3'-Dichlorobenzidine	13.827	252	58805	2.587	ug/ml#	96
106)	Chrysene	13.863	228	173773	2.290	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.939	149	98585	2.626	ug/ml#	96
108)	Di-n-octylphthalate	14.633	149	149078	2.664	ug/ml#	74
109)	Benzo(b)fluoranthene	14.957	252	163103	2.496	ug/ml#	94
110)	Benzo(k)fluoranthene	14.980	252	157224	2.327	ug/ml#	94
111)	Benzo(a)pyrene	15.274	252	141779	2.421	ug/ml#	93
113)	Indeno(1,2,3-cd)pyrene	16.351	276	139453M6	2.546	ug/mL	
114)	Dibenzo(a,h)anthracene	16.374	278	138436	2.410	ug/ml#	90
115)	Benzo(ghi)perylene	16.621	276	135255	2.347	ug/ml#	87

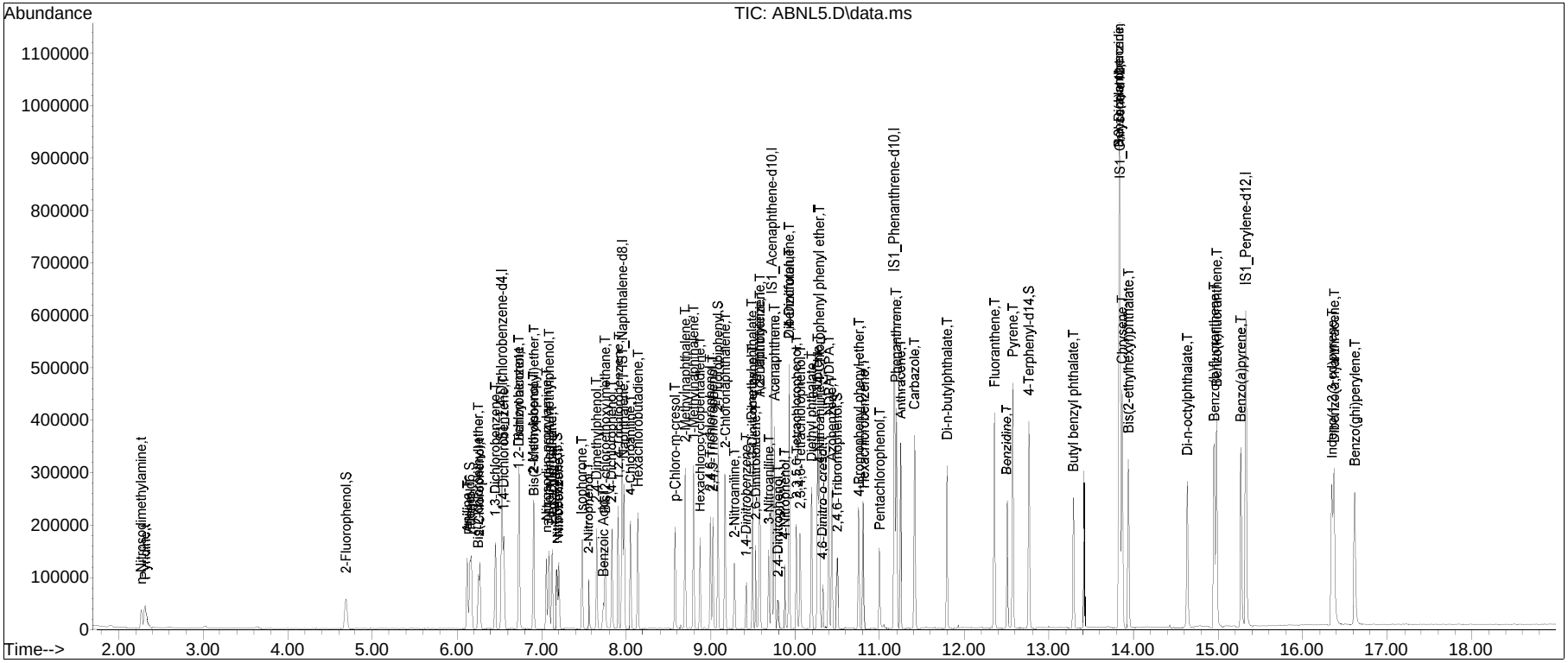
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL5.D
Acq On : 2 Jun 2024 9:15 pm
Operator : SV107:jg
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1929644,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 03 10:55:50 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

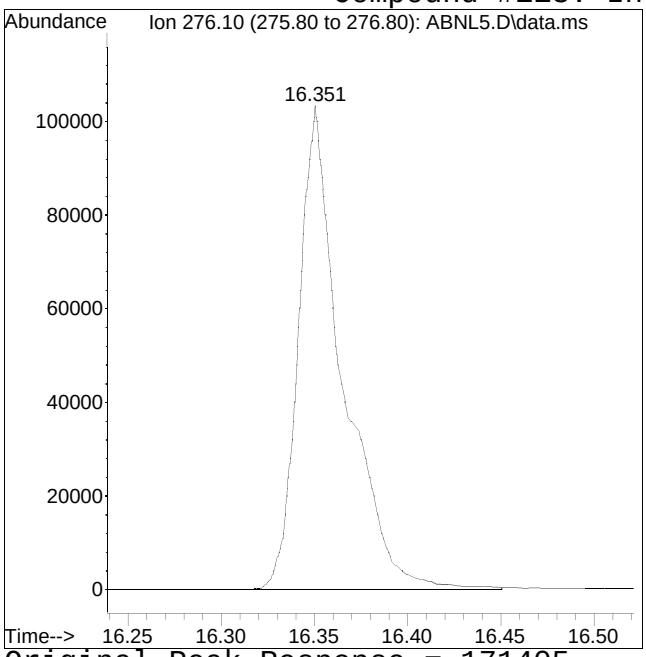
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



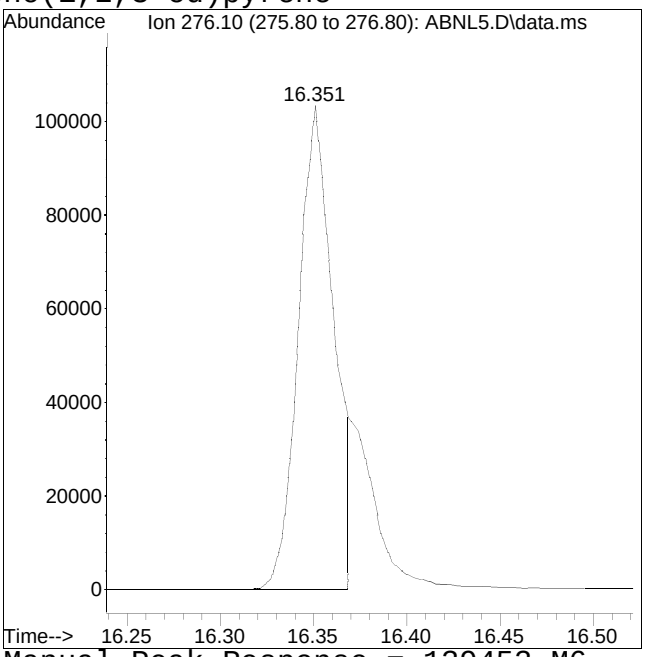
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL5.D Operator : SV107:jg
Date Inj'd : 6/2/2024 9:15 pm Instrument : SV107
Sample : IL6,32,,ABNL2.5 Lot# 10695Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 171405



Manual Peak Response = 139453 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL4.D
Acq On : 2 Jun 2024 9:40 pm
Operator : SV107:jg
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1929644,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 10:55:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	47882	4.000	ug/ml	0.00
Standard Area 1 = 52051			Recovery = 91.99%			
34) IS1_Naphthalene-d8	7.957	136	173049	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 90.91%			
62) IS1_Acenaphthene-d10	9.728	164	107016	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 86.32%			
87) IS1_Phenanthrene-d10	11.175	188	213882	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 84.79%			
103) IS1_Chrysene-d12	13.839	240	198208	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 84.73%			
112) IS1_Perylene-d12	15.327	264	204859	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 84.98%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.693	112	11542	0.822	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 41.10%			
7) Phenol-d6	6.157	99	14374	0.807	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 40.35%			
19) Nitrobenzene-d5	7.187	82	12092	0.741	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 74.10%			
45) 2-Fluorobiphenyl	9.081	172	34242	0.860	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 86.00%			
78) 2,4,6-Tribromophenol	10.498	330	4507	1.127	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 56.35%			
95) 4-Terphenyl-d14	12.763	244	43560	0.925	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 92.50%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.275	74	7670	0.777	ug/ml#	72
3) Pyridine	2.322	79	12809	0.893	ug/ml#	59
5) Aniline	6.128	93	18846	0.891	ug/ml	96
6) 2-Chlorophenol	6.275	128	12212	0.792	ug/ml	94
8) Phenol	6.175	94	15459	0.797	ug/ml	96
9) Bis(2-chloroethyl)ether	6.251	93	12397	0.770	ug/ml#	84
10) 1,3-Dichlorobenzene	6.457	146	15335	0.802	ug/ml	96
11) 1,4-Dichlorobenzene	6.551	146	15625	0.797	ug/ml	98
12) 1,2-Dichlorobenzene	6.728	146	15217	0.815	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL4.D
Acq On : 2 Jun 2024 9:40 pm
Operator : SV107:jg
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1929644,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 10:55:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	10673	0.837	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	17153	0.789	ug/ml#	45
15) 2-Methylphenol	6.904	108	10850	0.799	ug/ml	97
16) Hexachloroethane	7.122	117	5695	0.816	ug/ml#	60
17) n-Nitrosodi-n-propylamine	7.057	70	9423	0.860	ug/ml#	91
18) 3-Methylphenol/4-Methy...	7.087	108	11799	0.803	ug/ml	95
20) Nitrobenzene	7.204	77	12536	0.750	ug/ml	95
21) Isophorone	7.487	82	25850	0.897	ug/ml	97
22) 2-Nitrophenol	7.563	139	4723	0.688	ug/ml#	93
23) 2,4-Dimethylphenol	7.657	107	12053	1.052	ug/ml	96
24) Bis(2-chloroethoxy)met...	7.751	93	16927	0.871	ug/ml#	97
25) 2,4-Dichlorophenol	7.828	162	11726	0.875	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.910	180	13712	0.784	ug/ml	97
35) Naphthalene	7.975	128	38557	0.794	ug/ml	99
36) Benzoic Acid	7.722	105	2689	0.869	ug/ml#	84
37) 4-Chloroaniline	8.057	65	4974	0.837	ug/ml	82
38) Hexachlorobutadiene	8.145	225	7822	0.794	ug/ml	99
39) p-Chloro-m-cresol	8.581	107	11029	0.895	ug/ml	99
40) 2-Methylnaphthalene	8.698	142	27453	0.851	ug/ml	95
41) 1-Methylnaphthalene	8.792	115	9382	0.851	ug/ml	96
42) Hexachlorocyclopentadiene	8.875	237	7325	1.025	ug/ml	96
43) 2,4,6-Trichlorophenol	8.992	196	9310	0.955	ug/ml	99
44) 2,4,5-Trichlorophenol	9.022	196	9747	0.922	ug/ml	96
46) 2-Chloronaphthalene	9.175	162	28231	0.871	ug/ml	96
47) 2-Nitroaniline	9.292	138	5856	0.866	ug/ml	93
48) 1,4-Dinitrobenzene	9.422	168	2377	0.833	ug/ml	90
49) 1,3-Dinitrobenzene	9.498	168	3227	0.696	ug/ml#	1
50) Dimethyl phthalate	9.492	163	34231	0.956	ug/ml#	98
51) Acenaphthylene	9.581	152	43434	0.891	ug/ml	98
52) 2,6-Dinitrotoluene	9.539	165	5358	0.814	ug/ml	86
53) 1,2-Dinitrobenzene	9.581	168	2371	0.843	ug/ml#	1
63) 3-Nitroaniline	9.692	138	5549	0.685	ug/ml#	91
64) Acenaphthene	9.757	154	27580	0.914	ug/ml	93
65) 2,4-Dinitrophenol	9.798	184	1637	1.089	ug/ml	88
66) Dibenzofuran	9.928	168	44001	0.888	ug/ml	94
67) 2,4-Dinitrotoluene	9.928	165	6766	0.761	ug/ml#	86
68) 4-Nitrophenol	9.880	65	4785	0.701	ug/ml#	92
69) 2,3,5,6-Tetrachlorophenol	10.022	232	7620	0.899	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL4.D
Acq On : 2 Jun 2024 9:40 pm
Operator : SV107:jg
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1929644,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 10:55:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	7797	0.908	ug/ml	99
71)	Diethyl phthalate	10.192	149	32198	0.925	ug/ml	97
72)	Fluorene	10.263	166	33268	0.894	ug/ml	92
73)	4-Chlorophenyl phenyl ...	10.280	204	16775	0.875	ug/ml	89
74)	4-Nitroaniline	10.286	138	5890	0.722	ug/ml#	88
75)	4,6-Dinitro-o-cresol	10.322	198	2568	0.826	ug/ml#	82
76)	NDPA/DPA	10.398	169	28267	0.946	ug/ml	93
77)	Azobenzene	10.433	77	31686	0.903	ug/ml	96
79)	4-Bromophenyl phenyl e...	10.757	248	8962	0.890	ug/ml#	89
80)	Hexachlorobenzene	10.810	284	11017	0.992	ug/ml#	87
81)	Pentachlorophenol	11.004	266	4887	0.963	ug/ml	99
88)	Phenanthrene	11.192	178	52508	0.883	ug/ml	98
89)	Anthracene	11.245	178	50911	0.906	ug/ml	99
90)	Carbazole	11.410	167	47456	0.931	ug/ml	99
91)	Di-n-butylphthalate	11.798	149	49974	0.922	ug/ml	99
92)	Fluoranthene	12.357	202	58826	0.920	ug/ml#	92
93)	Benzidine	12.504	184	30384	0.880	ug/ml#	95
94)	Pyrene	12.574	202	64332	0.930	ug/ml	99
96)	Butyl benzyl phthalate	13.292	149	17420	1.040	ug/ml	98
104)	Benzo(a)anthracene	13.827	228	60892	0.911	ug/ml	99
105)	3,3'-Dichlorobenzidine	13.827	252	18732	0.930	ug/ml#	97
106)	Chrysene	13.863	228	62455	0.929	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.939	149	27519	0.935	ug/ml#	94
108)	Di-n-octylphthalate	14.627	149	39122	1.025	ug/ml#	78
109)	Benzo(b)fluoranthene	14.951	252	51194	0.884	ug/ml#	94
110)	Benzo(k)fluoranthene	14.974	252	55477	0.926	ug/ml#	93
111)	Benzo(a)pyrene	15.268	252	46234	0.891	ug/ml#	93
113)	Indeno(1,2,3-cd)pyrene	16.339	276	41077M6	0.852	ug/mL	
114)	Dibenzo(a,h)anthracene	16.368	278	46981	0.929	ug/ml#	91
115)	Benzo(ghi)perylene	16.609	276	46738	0.921	ug/ml#	88

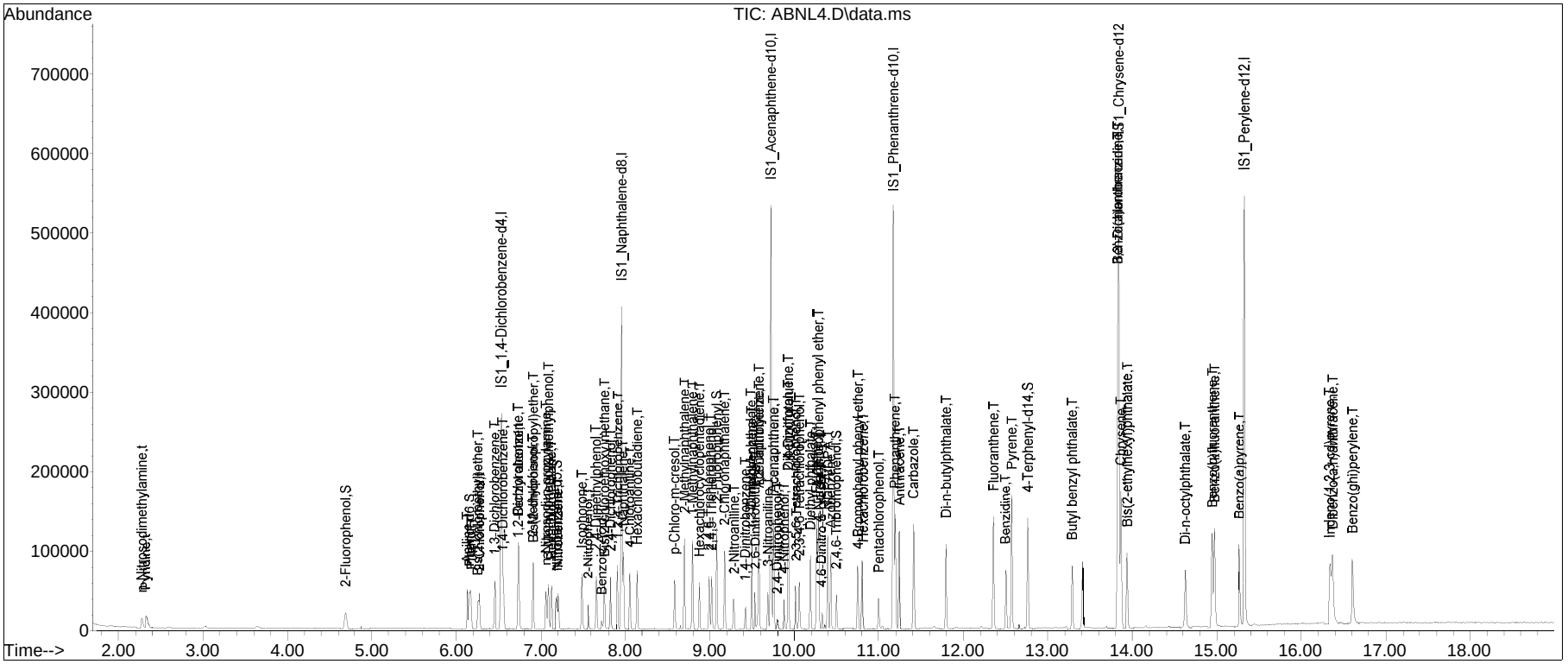
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL4.D
Acq On : 2 Jun 2024 9:40 pm
Operator : SV107:jg
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1929644,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 10:55:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

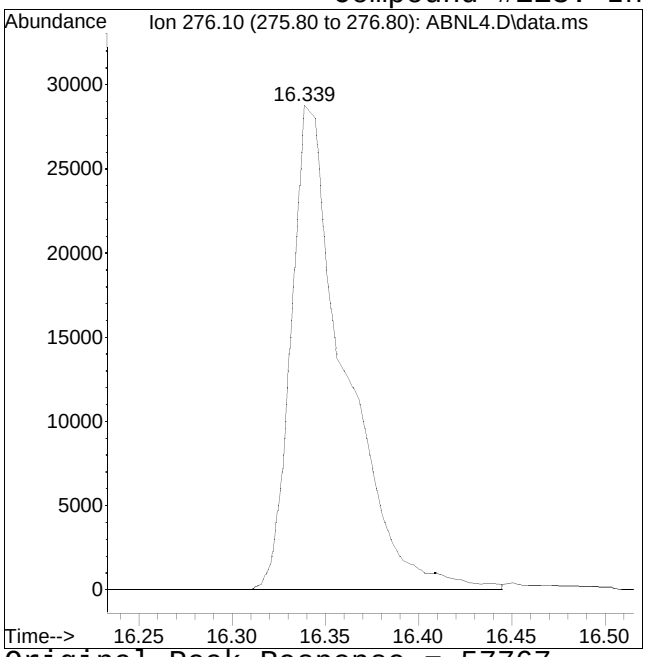
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



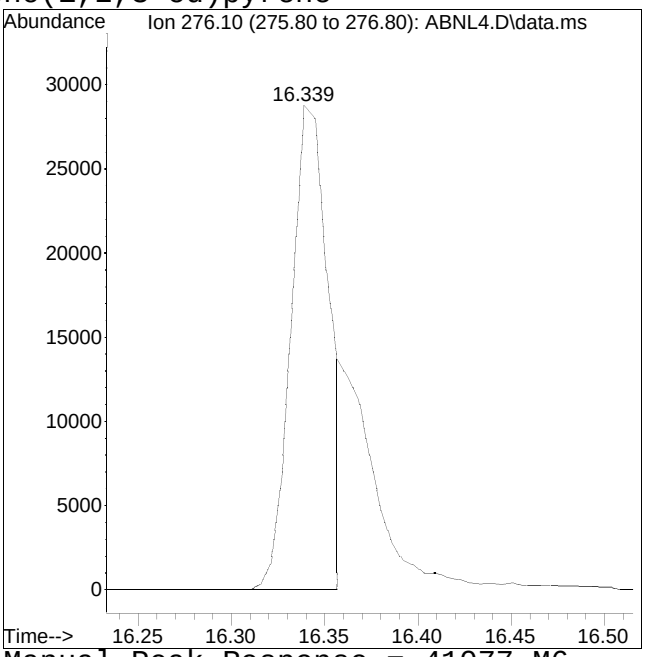
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL4.D Operator : SV107:jg
Date Inj'd : 6/2/2024 9:40 pm Instrument : SV107
Sample : IL7,32,,ABNL1 Lot# 10696 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 57767



Manual Peak Response = 41077 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL3.D
Acq On : 2 Jun 2024 10:05 pm
Operator : SV107:jg
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1929644,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 10:54:24 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	45910	4.000	ug/ml	0.00
Standard Area 1 = 52051			Recovery = 88.20%			
34) IS1_Naphthalene-d8	7.957	136	170517	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 89.58%			
62) IS1_Acenaphthene-d10	9.727	164	104536	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 84.32%			
87) IS1_Phenanthrene-d10	11.168	188	215844	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 85.57%			
103) IS1_Chrysene-d12	13.839	240	194131	4.000	ug/ml #	0.00
Standard Area 1 = 233929			Recovery = 82.99%			
112) IS1_Perylene-d12	15.327	264	212656	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 88.21%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.692	112	6630	0.493	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 24.65%			
7) Phenol-d6	6.157	99	8372	0.491	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 24.55%			
19) Nitrobenzene-d5	7.186	82	6623	0.423	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 42.30%			
45) 2-Fluorobiphenyl	9.080	172	20041	0.511	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 51.10%			
78) 2,4,6-Tribromophenol	10.498	330	2183	0.559	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 27.95%			
95) 4-Terphenyl-d14	12.762	244	24689	0.520	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 52.00%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.275	74	4316	0.456	ug/ml#	76
3) Pyridine	2.328	79	7601	0.553	ug/ml#	57
5) Aniline	6.128	93	10454	0.516	ug/ml	97
6) 2-Chlorophenol	6.275	128	7248	0.490	ug/ml	91
8) Phenol	6.175	94	8946	0.481	ug/ml	98
9) Bis(2-chloroethyl)ether	6.257	93	7474	0.484	ug/ml	87
10) 1,3-Dichlorobenzene	6.457	146	8644	0.472	ug/ml	98
11) 1,4-Dichlorobenzene	6.551	146	8910	0.474	ug/ml	93
12) 1,2-Dichlorobenzene	6.733	146	8601	0.480	ug/ml	99

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL3.D
Acq On : 2 Jun 2024 10:05 pm
Operator : SV107:jg
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1929644,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 10:54:24 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.739	79	5941	0.486	ug/ml	96
14) Bis(2-chloroisopropyl)...	6.910	45	10112	0.485	ug/ml#	48
15) 2-Methylphenol	6.904	108	6154	0.472	ug/ml	97
16) Hexachloroethane	7.122	117	3438	0.514	ug/ml#	71
17) n-Nitrosodi-n-propylamine	7.063	70	5048	0.480	ug/ml#	83
18) 3-Methylphenol/4-Methy...	7.086	108	6220	0.441	ug/ml	96
20) Nitrobenzene	7.204	77	6977	0.435	ug/ml	91
21) Isophorone	7.486	82	13605	0.492	ug/ml	97
22) 2-Nitrophenol	7.563	139	2382	0.362	ug/ml#	92
23) 2,4-Dimethylphenol	7.657	107	6407	0.583	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.751	93	9006	0.483	ug/ml#	98
25) 2,4-Dichlorophenol	7.828	162	6393	0.497	ug/ml#	92
26) 1,2,4-Trichlorobenzene	7.910	180	8107	0.483	ug/ml	95
35) Naphthalene	7.975	128	22638	0.473	ug/ml	98
36) Benzoic Acid	0.000		0	N.D.		
37) 4-Chloroaniline	8.057	65	2759	0.471	ug/ml	88
38) Hexachlorobutadiene	8.145	225	4841	0.499	ug/ml	97
39) p-Chloro-m-cresol	8.580	107	5428	0.447	ug/ml	95
40) 2-Methylnaphthalene	8.698	142	15343	0.483	ug/ml	95
41) 1-Methylnaphthalene	8.792	115	5220	0.480	ug/ml	96
42) Hexachlorocyclopentadiene	8.875	237	4257	0.605	ug/ml	99
43) 2,4,6-Trichlorophenol	8.992	196	4869	0.507	ug/ml	98
44) 2,4,5-Trichlorophenol	9.022	196	5185	0.498	ug/ml	97
46) 2-Chloronaphthalene	9.175	162	16161	0.506	ug/ml	96
47) 2-Nitroaniline	9.286	138	3064	0.589	ug/ml	91
48) 1,4-Dinitrobenzene	9.422	168	1225	0.595	ug/ml	83
49) 1,3-Dinitrobenzene	9.498	168	1423	0.311	ug/ml#	1
50) Dimethyl phthalate	9.492	163	18011	0.511	ug/ml	98
51) Acenaphthylene	9.580	152	23230	0.483	ug/ml	98
52) 2,6-Dinitrotoluene	9.533	165	2476	0.449	ug/ml#	86
53) 1,2-Dinitrobenzene	9.580	168	1131	0.477	ug/ml#	1
63) 3-Nitroaniline	9.692	138	2827	0.357	ug/ml#	95
64) Acenaphthene	9.757	154	15043	0.511	ug/ml	92
65) 2,4-Dinitrophenol	9.798	184	528	0.839	ug/ml#	25
66) Dibenzofuran	9.927	168	23909	0.494	ug/ml	92
67) 2,4-Dinitrotoluene	9.927	165	3243	0.445	ug/ml#	84
68) 4-Nitrophenol	9.880	65	2237	0.335	ug/ml#	91
69) 2,3,5,6-Tetrachlorophenol	10.022	232	4086	0.494	ug/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL3.D
Acq On : 2 Jun 2024 10:05 pm
Operator : SV107:jg
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1929644,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 10:54:24 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	3872	0.462	ug/ml	99
71)	Diethyl phthalate	10.192	149	17886	0.526	ug/ml	99
72)	Fluorene	10.263	166	18068	0.497	ug/ml	91
73)	4-Chlorophenyl phenyl ...	10.280	204	9280	0.495	ug/ml	90
74)	4-Nitroaniline	10.286	138	2755	0.346	ug/ml#	91
75)	4,6-Dinitro-o-cresol	10.321	198	1106	0.577	ug/ml#	72
76)	NDPA/DPA	10.398	169	15682	0.537	ug/ml	96
77)	Azobenzene	10.427	77	17021	0.496	ug/ml	98
79)	4-Bromophenyl phenyl e...	10.751	248	5266	0.536	ug/ml#	86
80)	Hexachlorobenzene	10.804	284	5909	0.545	ug/ml#	89
81)	Pentachlorophenol	11.004	266	2114	0.577	ug/ml	98
88)	Phenanthrene	11.192	178	30473	0.508	ug/ml	99
89)	Anthracene	11.239	178	29062	0.513	ug/ml	99
90)	Carbazole	11.410	167	25772	0.501	ug/ml	98
91)	Di-n-butylphthalate	11.798	149	25628	0.468	ug/ml	98
92)	Fluoranthene	12.351	202	32526	0.504	ug/ml#	92
93)	Benzidine	12.504	184	15314	0.439	ug/ml#	93
94)	Pyrene	12.574	202	35309	0.506	ug/ml	98
96)	Butyl benzyl phthalate	13.292	149	8253	0.683	ug/ml#	97
104)	Benzo(a)anthracene	13.827	228	33174	0.507	ug/ml	99
105)	3,3'-Dichlorobenzidine	13.821	252	9158	0.464	ug/ml	98
106)	Chrysene	13.862	228	33894	0.515	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.939	149	13528	0.542	ug/ml	95
108)	Di-n-octylphthalate	14.627	149	17580	0.643	ug/ml#	79
109)	Benzo(b)fluoranthene	14.951	252	28728	0.507	ug/ml#	95
110)	Benzo(k)fluoranthene	14.980	252	29824	0.509	ug/ml#	93
111)	Benzo(a)pyrene	15.268	252	25584	0.503	ug/ml#	94
113)	Indeno(1,2,3-cd)pyrene	16.345	276	21117M6	0.422	ug/mL	
114)	Dibenzo(a,h)anthracene	16.368	278	25041	0.477	ug/ml#	88
115)	Benzo(ghi)perylene	16.615	276	26511	0.503	ug/ml#	84

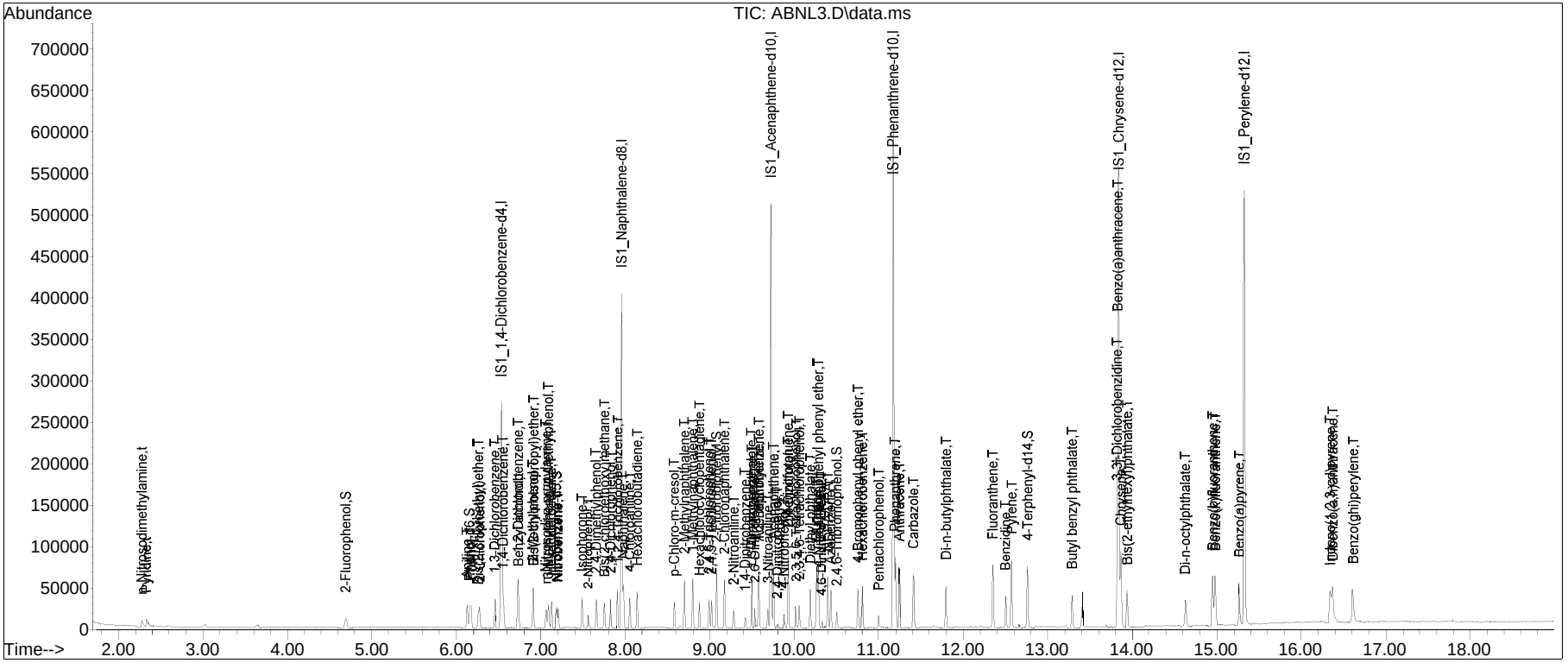
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL3.D
Acq On : 2 Jun 2024 10:05 pm
Operator : SV107:jg
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1929644,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 10:54:24 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

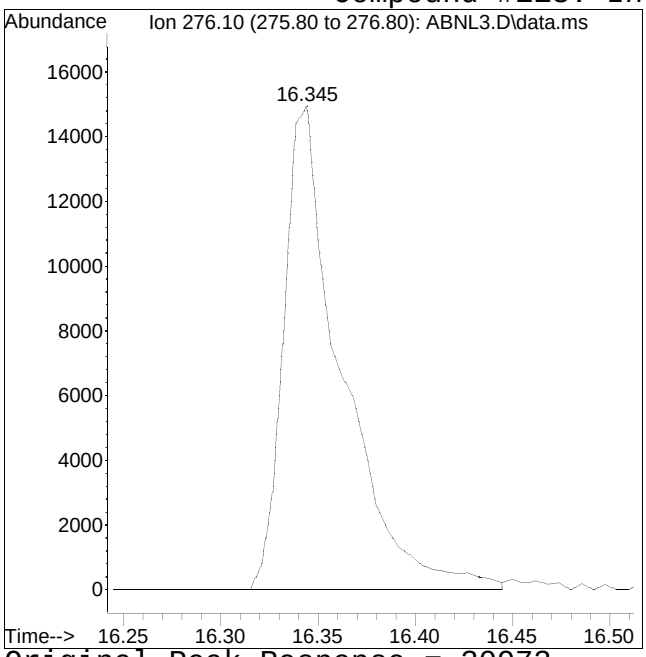
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



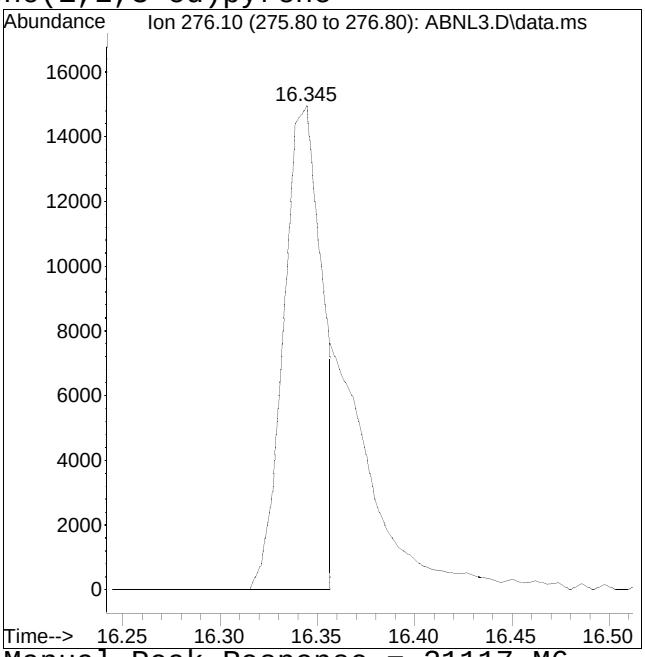
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL3.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:05 pm Instrument : SV107
Sample : IL8,32,,ABNL0.5 Lot# 10697 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 30973



Manual Peak Response = 21117 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL2.D
Acq On : 2 Jun 2024 10:30 pm
Operator : SV107:jg
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1929644,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 10:53:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.534	152	49068	4.000	ug/ml		0.00
Standard Area 1 = 52051			Recovery = 94.27%				
34) IS1_Naphthalene-d8	7.957	136	178109	4.000	ug/ml		0.00
Standard Area 1 = 190351			Recovery = 93.57%				
62) IS1_Acenaphthene-d10	9.727	164	109346	4.000	ug/ml		0.00
Standard Area 1 = 123969			Recovery = 88.20%				
87) IS1_Phenanthrene-d10	11.169	188	231483	4.000	ug/ml		0.00
Standard Area 1 = 252252			Recovery = 91.77%				
103) IS1_Chrysene-d12	13.833	240	204856	4.000	ug/ml	#	0.00
Standard Area 1 = 233929			Recovery = 87.57%				
112) IS1_Perylene-d12	15.315	264	219164	4.000	ug/ml		0.00
Standard Area 1 = 241074			Recovery = 90.91%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.692	112	2651	0.184	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 9.20%#				
7) Phenol-d6	6.157	99	3276	0.180	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 9.00%#				
19) Nitrobenzene-d5	7.186	82	2866	0.171	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 17.10%#				
45) 2-Fluorobiphenyl	9.080	172	8144	0.199	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 19.90%#				
78) 2,4,6-Tribromophenol	10.498	330	870	0.213	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 10.65%#				
95) 4-Terphenyl-d14	12.763	244	10521	0.206	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 20.60%#				
Target Compounds							Qvalue
2) n-Nitrosodimethylamine	2.287	74	1812	0.179	ug/ml	#	75
3) Pyridine	2.351	79	3228	0.220	ug/ml	#	54
5) Aniline	6.134	93	4255	0.196	ug/ml		99
6) 2-Chlorophenol	6.275	128	3002	0.190	ug/ml		92
8) Phenol	6.175	94	3744	0.188	ug/ml		96
9) Bis(2-chloroethyl)ether	6.257	93	3295	0.200	ug/ml		89
10) 1,3-Dichlorobenzene	6.463	146	3924	0.200	ug/ml		95
11) 1,4-Dichlorobenzene	6.551	146	4199	0.209	ug/ml	#	92
12) 1,2-Dichlorobenzene	6.734	146	3740	0.195	ug/ml		98

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL2.D
Acq On : 2 Jun 2024 10:30 pm
Operator : SV107:jg
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1929644,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 10:53:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.739	79	2486	0.190	ug/ml	94
14) Bis(2-chloroisopropyl)...	6.910	45	4227	0.190	ug/ml#	46
15) 2-Methylphenol	6.904	108	2507	0.180	ug/ml	95
16) Hexachloroethane	7.122	117	1408	0.197	ug/ml#	58
17) n-Nitrosodi-n-propylamine	7.063	70	2185	0.195	ug/ml#	59
18) 3-Methylphenol/4-Methy...	7.086	108	2751	0.183	ug/ml#	93
20) Nitrobenzene	7.204	77	2838	0.166	ug/ml#	82
21) Isophorone	7.486	82	5475	0.185	ug/ml	94
22) 2-Nitrophenol	7.563	139	1051	0.149	ug/ml#	81
23) 2,4-Dimethylphenol	7.657	107	2594	0.221	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.751	93	3781	0.190	ug/ml#	90
25) 2,4-Dichlorophenol	7.828	162	2571	0.187	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.910	180	3505	0.196	ug/ml	94
35) Naphthalene	7.975	128	9960	0.199	ug/ml	99
36) Benzoic Acid	0.000		0	N.D.		
37) 4-Chloroaniline	8.057	65	1080	0.176	ug/ml#	82
38) Hexachlorobutadiene	8.145	225	2203	0.217	ug/ml	98
39) p-Chloro-m-cresol	8.580	107	2273	0.179	ug/ml	98
40) 2-Methylnaphthalene	8.698	142	6607	0.199	ug/ml	96
41) 1-Methylnaphthalene	8.792	115	2255	0.199	ug/ml	97
42) Hexachlorocyclopentadiene	8.875	237	1916	0.260	ug/ml#	90
43) 2,4,6-Trichlorophenol	8.992	196	2019	0.201	ug/ml	99
44) 2,4,5-Trichlorophenol	9.022	196	2139	0.197	ug/ml	95
46) 2-Chloronaphthalene	9.175	162	7062	0.212	ug/ml	93
47) 2-Nitroaniline	9.286	138	1109	0.385	ug/ml	94
48) 1,4-Dinitrobenzene	9.422	168	438	0.423	ug/ml	95
49) 1,3-Dinitrobenzene	9.498	168	558	0.117	ug/ml#	1
50) Dimethyl phthalate	9.492	163	7982	0.217	ug/ml#	93
51) Acenaphthylene	9.580	152	10001	0.199	ug/ml	99
52) 2,6-Dinitrotoluene	9.533	165	962	0.247	ug/ml#	85
53) 1,2-Dinitrobenzene	9.580	168	338M3	0.231	ug/ml	
63) 3-Nitroaniline	9.692	138	965	0.117	ug/ml#	88
64) Acenaphthene	9.757	154	6591	0.214	ug/ml	91
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	9.927	168	10705	0.212	ug/ml	95
67) 2,4-Dinitrotoluene	9.927	165	1137	0.242	ug/ml#	70
68) 4-Nitrophenol	9.880	65	854	0.122	ug/ml	87
69) 2,3,5,6-Tetrachlorophenol	10.022	232	1581	0.183	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL2.D
Acq On : 2 Jun 2024 10:30 pm
Operator : SV107:jg
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1929644,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 10:53:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	1582	0.180	ug/ml	98
71)	Diethyl phthalate	10.192	149	7230	0.203	ug/ml	96
72)	Fluorene	10.263	166	7825	0.206	ug/ml	92
73)	4-Chlorophenyl phenyl ...	10.280	204	3942	0.201	ug/ml	90
74)	4-Nitroaniline	10.286	138	957	0.115	ug/ml#	86
75)	4,6-Dinitro-o-cresol	10.327	198	265M2	0.425	ug/ml	
76)	NDPA/DPA	10.392	169	6543	0.214	ug/ml	97
77)	Azobenzene	10.427	77	7151	0.199	ug/ml	96
79)	4-Bromophenyl phenyl e...	10.751	248	2311	0.225	ug/ml#	85
80)	Hexachlorobenzene	10.804	284	2664	0.235	ug/ml#	85
81)	Pentachlorophenol	11.004	266	708	0.368	ug/ml	92
88)	Phenanthrene	11.192	178	13197	0.205	ug/ml	97
89)	Anthracene	11.239	178	12757	0.210	ug/ml	99
90)	Carbazole	11.410	167	10959	0.199	ug/ml	99
91)	Di-n-butylphthalate	11.798	149	10896	0.186	ug/ml	99
92)	Fluoranthene	12.351	202	14995	0.217	ug/ml#	90
93)	Benzidine	12.504	184	5328	0.143	ug/ml#	84
94)	Pyrene	12.574	202	15788	0.211	ug/ml	99
96)	Butyl benzyl phthalate	13.292	149	3375	0.486	ug/ml	95
104)	Benzo(a)anthracene	13.827	228	14868	0.215	ug/ml	96
105)	3,3'-Dichlorobenzidine	13.821	252	3454	0.166	ug/ml#	96
106)	Chrysene	13.862	228	15148	0.218	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.939	149	4794	0.277	ug/ml#	94
108)	Di-n-octylphthalate	14.621	149	6797	0.436	ug/ml#	86
109)	Benzo(b)fluoranthene	14.939	252	12507	0.209	ug/ml#	94
110)	Benzo(k)fluoranthene	14.968	252	12503	0.202	ug/ml#	95
111)	Benzo(a)pyrene	15.262	252	10380	0.193	ug/ml#	92
113)	Indeno(1,2,3-cd)pyrene	16.339	276	8551M6	0.166	ug/mL	
114)	Dibenzo(a,h)anthracene	16.362	278	9182	0.170	ug/ml#	88
115)	Benzo(ghi)perylene	16.603	276	10140	0.187	ug/ml#	86

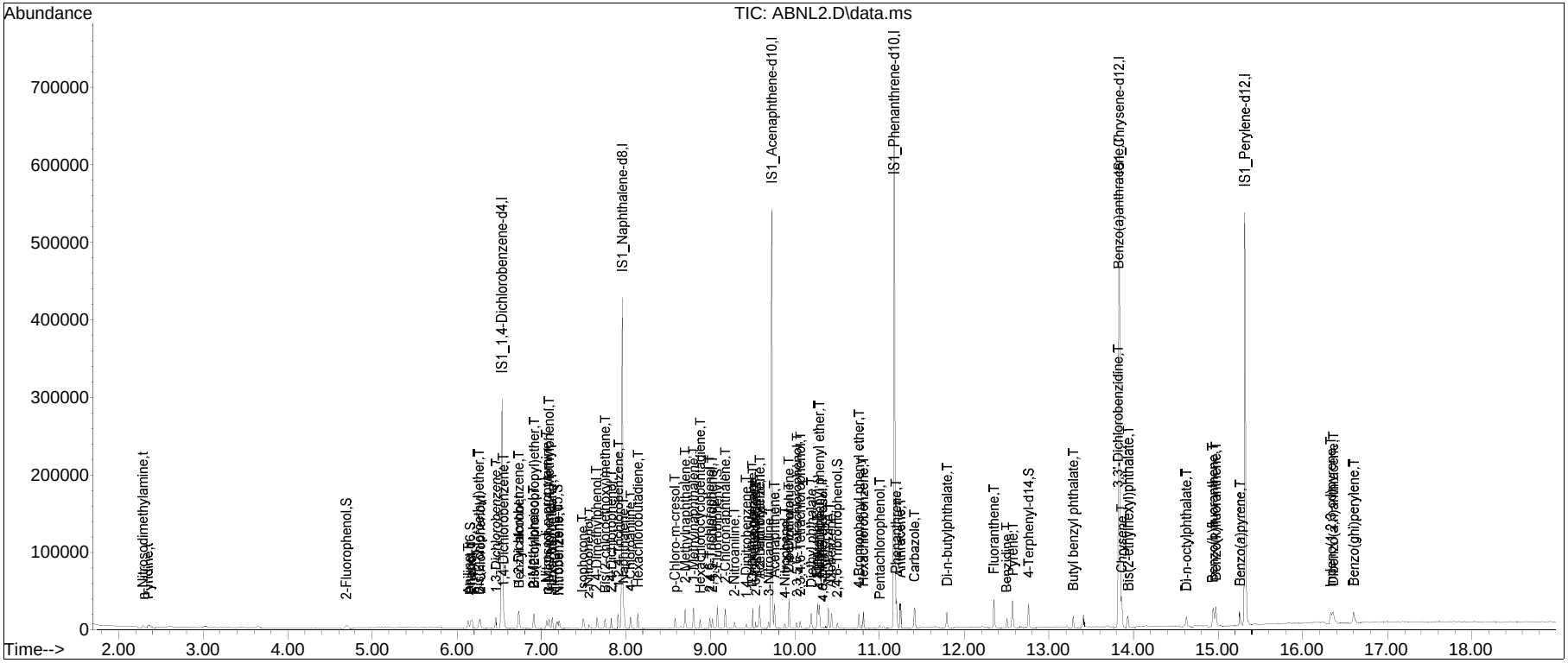
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL2.D
Acq On : 2 Jun 2024 10:30 pm
Operator : SV107:jg
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1929644,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 10:53:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

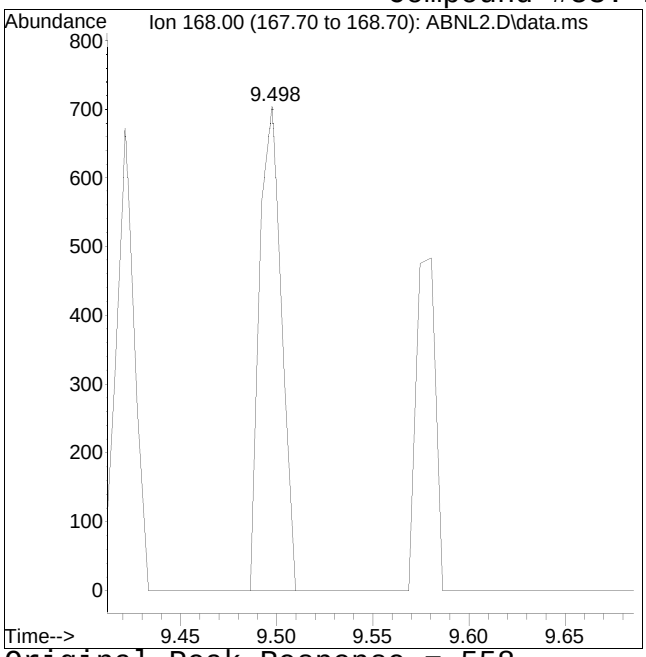
Sub List : ABNical - ABN ical sublistal\AP9L6.D•

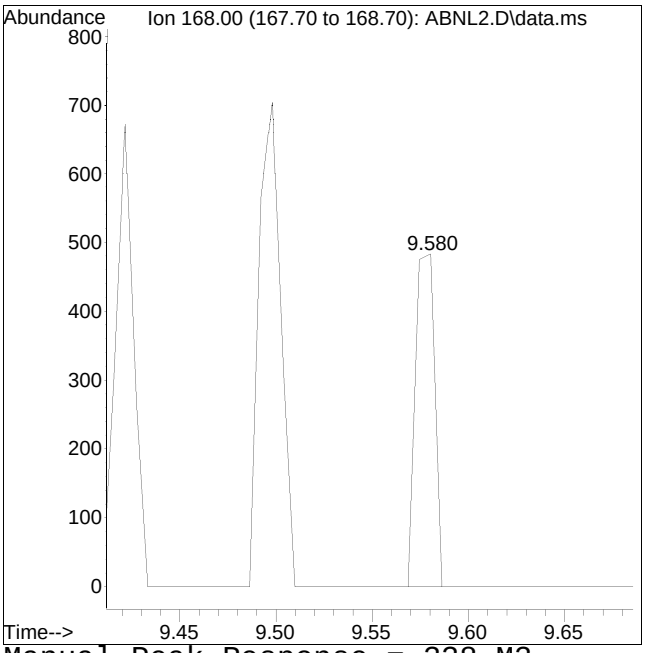


Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL2.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:30 pm Instrument : SV107
Sample : IL9,32,,ABNL0.2 Lot# 10698 Quant Date : 6/3/2024 10:22 am

Compound #53: 1,2-Dinitrobenzene





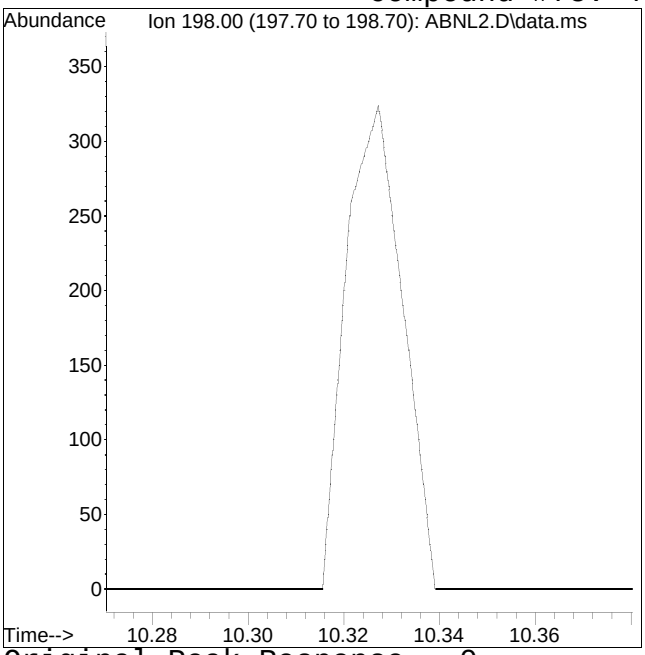
Original Peak Response = 558 Manual Peak Response = 338 M3

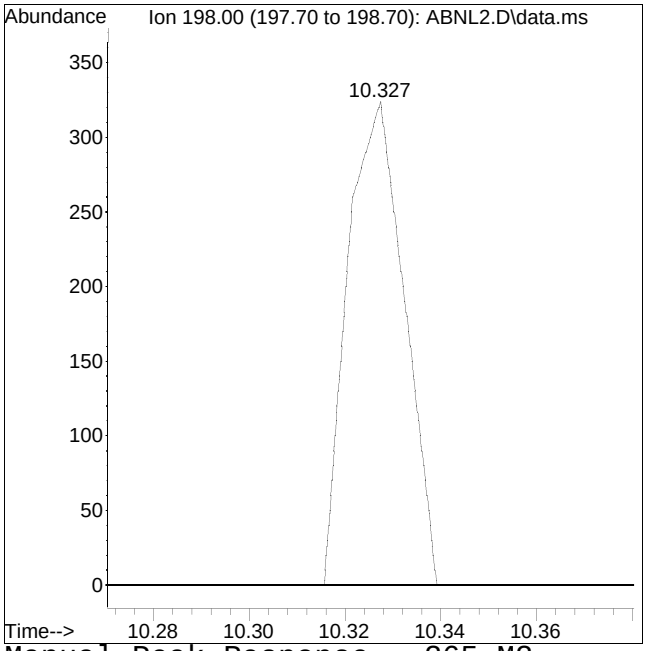
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL2.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:30 pm Instrument : SV107
Sample : IL9,32,,ABNL0.2 Lot# 10698 Quant Date : 6/3/2024 10:22 am

Compound #75: 4,6-Dinitro-o-cresol



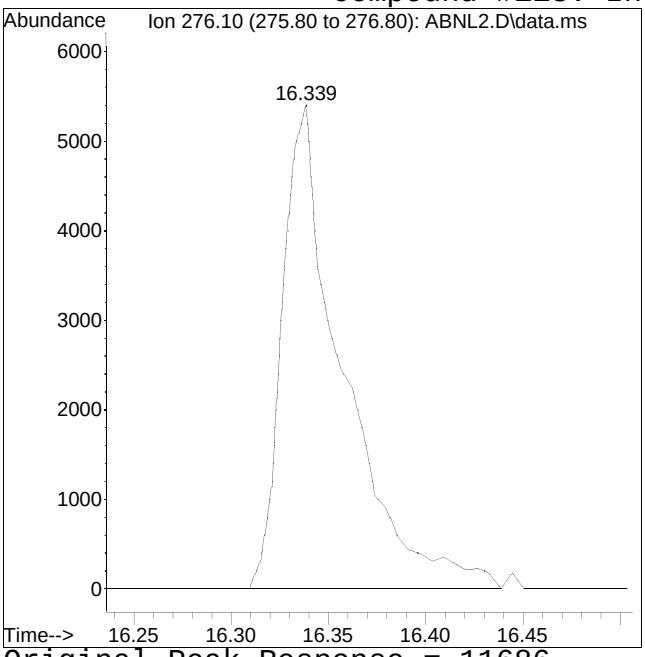


Original Peak Response = 0 Manual Peak Response = 265 M2
M2 = Peak not found by automatic integration algorithm.

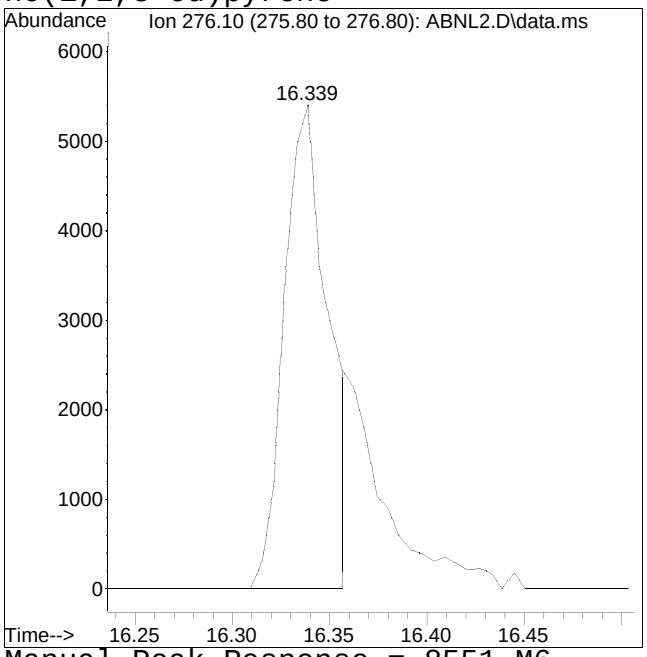
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL2.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:30 pm Instrument : SV107
Sample : IL9,32,,ABNL0.2 Lot# 10698 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 11686



Manual Peak Response = 8551 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL1.D
Acq On : 2 Jun 2024 10:56 pm
Operator : SV107:jg
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1929644,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 10:52:14 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	6.534	152	50386	4.000 ug/ml	0.00
Standard Area 1 = 52051			Recovery = 96.80%		
34) IS1_Naphthalene-d8	7.957	136	184640	4.000 ug/ml	0.00
Standard Area 1 = 190351			Recovery = 97.00%		
62) IS1_Acenaphthene-d10	9.728	164	112329	4.000 ug/ml	0.00
Standard Area 1 = 123969			Recovery = 90.61%		
87) IS1_Phenanthrene-d10	11.174	188	235335	4.000 ug/ml	0.00
Standard Area 1 = 252252			Recovery = 93.29%		
103) IS1_Chrysene-d12	13.833	240	210802	4.000 ug/ml #	0.00
Standard Area 1 = 233929			Recovery = 90.11%		
112) IS1_Perylene-d12	15.315	264	224865	4.000 ug/ml	0.00
Standard Area 1 = 241074			Recovery = 93.28%		
System Monitoring Compounds					
4) 2-Fluorophenol	4.693	112	1303	0.088 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 4.40%#		
7) Phenol-d6	6.157	99	1610	0.086 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 4.30%#		
19) Nitrobenzene-d5	7.186	82	1368	0.080 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 8.00%#		
45) 2-Fluorobiphenyl	9.081	172	4156	0.098 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 9.80%#		
78) 2,4,6-Tribromophenol	10.498	330	287M2	0.068 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 3.40%#		
95) 4-Terphenyl-d14	12.763	244	5373	0.104 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 10.40%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.281	74	830	0.080 ug/ml#	68
3) Pyridine	2.357	79	1275	0.084 ug/ml#	49
5) Aniline	6.128	93	2125	0.095 ug/ml	96
6) 2-Chlorophenol	6.275	128	1485	0.092 ug/ml#	72
8) Phenol	6.175	94	1771	0.087 ug/ml	96
9) Bis(2-chloroethyl)ether	6.257	93	1574	0.093 ug/ml#	82
10) 1,3-Dichlorobenzene	6.457	146	1915	0.095 ug/ml	99
11) 1,4-Dichlorobenzene	6.551	146	1913	0.093 ug/ml#	73

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL1.D
Acq On : 2 Jun 2024 10:56 pm
Operator : SV107:jg
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1929644,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 10:52:14 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
12) 1,2-Dichlorobenzene	6.728	146	1919	0.098	ug/ml	92
13) Benzyl alcohol	6.739	79	1238	0.092	ug/ml	90
14) Bis(2-chloroisopropyl)...	6.910	45	2141	0.094	ug/ml#	36
15) 2-Methylphenol	6.904	108	1278	0.089	ug/ml#	84
16) Hexachloroethane	7.122	117	711	0.097	ug/ml#	74
17) n-Nitrosodi-n-propylamine	7.063	70	1152	0.100	ug/ml#	59
18) 3-Methylphenol/4-Methy...	7.087	108	1197	0.077	ug/ml#	83
20) Nitrobenzene	7.204	77	1429	0.081	ug/ml#	79
21) Isophorone	7.492	82	2720	0.090	ug/ml#	90
22) 2-Nitrophenol	7.563	139	373M2	0.052	ug/ml	
23) 2,4-Dimethylphenol	7.663	107	1321	0.110	ug/ml	96
24) Bis(2-chloroethoxy)met...	7.751	93	1937	0.095	ug/ml#	89
25) 2,4-Dichlorophenol	7.828	162	1209	0.086	ug/ml#	70
26) 1,2,4-Trichlorobenzene	7.910	180	1745	0.095	ug/ml	95
35) Naphthalene	7.975	128	5001	0.097	ug/ml	99
36) Benzoic Acid	0.000		0	N.D.		
37) 4-Chloroaniline	8.057	65	594	0.094	ug/ml	96
38) Hexachlorobutadiene	8.145	225	990	0.094	ug/ml	95
39) p-Chloro-m-cresol	8.586	107	1150	0.087	ug/ml#	84
40) 2-Methylnaphthalene	8.698	142	3208	0.093	ug/ml	94
41) 1-Methylnaphthalene	8.792	115	1117	0.095	ug/ml	96
42) Hexachlorocyclopentadiene	8.875	237	836	0.110	ug/ml#	85
43) 2,4,6-Trichlorophenol	8.998	196	870	0.084	ug/ml#	84
44) 2,4,5-Trichlorophenol	9.028	196	1016	0.090	ug/ml#	73
46) 2-Chloronaphthalene	9.175	162	3292	0.095	ug/ml	97
47) 2-Nitroaniline	9.292	138	531	0.326	ug/ml	95
48) 1,4-Dinitrobenzene	9.422	168	167M2	0.367	ug/ml	
49) 1,3-Dinitrobenzene	9.498	168	263M2	0.053	ug/ml	
50) Dimethyl phthalate	9.492	163	3817	0.100	ug/ml#	77
51) Acenaphthylene	9.580	152	4775	0.092	ug/ml	97
52) 2,6-Dinitrotoluene	0.000		0	N.D.		
53) 1,2-Dinitrobenzene	9.575	168	141M2	0.172	ug/ml	
63) 3-Nitroaniline	9.692	138	431	0.051	ug/ml#	95
64) Acenaphthene	9.757	154	3186	0.101	ug/ml	93
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	9.928	168	5287	0.102	ug/ml	92
67) 2,4-Dinitrotoluene	9.928	165	435	0.178	ug/ml#	50
68) 4-Nitrophenol	9.880	65	315M2	0.044	ug/ml	

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL1.D
Acq On : 2 Jun 2024 10:56 pm
Operator : SV107:jg
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1929644,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 10:52:14 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
69)	2,3,5,6-Tetrachlorophenol	10.022	232	621	0.070 ug/ml#	64
70)	2,3,4,6-Tetrachlorophenol	10.063	232	710	0.079 ug/ml#	70
71)	Diethyl phthalate	10.192	149	3751	0.103 ug/ml	95
72)	Fluorene	10.263	166	3853	0.099 ug/ml	93
73)	4-Chlorophenyl phenyl ...	10.280	204	2036	0.101 ug/ml#	85
74)	4-Nitroaniline	10.286	138	419	0.049 ug/ml#	69
75)	4,6-Dinitro-o-cresol	0.000		0	N.D.	
76)	NDPA/DPA	10.398	169	3096	0.099 ug/ml	91
77)	Azobenzene	10.433	77	3541	0.096 ug/ml	99
79)	4-Bromophenyl phenyl e...	10.757	248	1144	0.108 ug/ml#	88
80)	Hexachlorobenzene	10.810	284	1376	0.118 ug/ml#	64
81)	Pentachlorophenol	11.004	266	149M2	0.290 ug/ml	
88)	Phenanthrene	11.192	178	6475	0.099 ug/ml	98
89)	Anthracene	11.245	178	6079	0.098 ug/ml	99
90)	Carbazole	11.410	167	5031	0.090 ug/ml	98
91)	Di-n-butylphthalate	11.798	149	5415	0.091 ug/ml#	92
92)	Fluoranthene	12.357	202	7036	0.100 ug/ml#	93
93)	Benzidine	12.504	184	2270	0.060 ug/ml#	68
94)	Pyrene	12.574	202	7718	0.101 ug/ml	98
96)	Butyl benzyl phthalate	13.292	149	1667	0.424 ug/ml#	93
104)	Benzo(a)anthracene	13.827	228	7685	0.108 ug/ml	98
105)	3,3'-Dichlorobenzidine	13.821	252	1677	0.078 ug/ml#	87
106)	Chrysene	13.863	228	7226	0.101 ug/ml	97
107)	Bis(2-ethylhexyl)phtha...	13.939	149	2517	0.211 ug/ml#	90
108)	Di-n-octylphthalate	14.621	149	3310	0.373 ug/ml#	87
109)	Benzo(b)fluoranthene	14.939	252	5782	0.094 ug/ml#	88
110)	Benzo(k)fluoranthene	14.968	252	5672	0.089 ug/ml#	89
111)	Benzo(a)pyrene	15.262	252	4646	0.084 ug/ml#	92
113)	Indeno(1,2,3-cd)pyrene	16.333	276	3420M6	0.065 ug/mL	
114)	Dibenzo(a,h)anthracene	16.356	278	3966	0.071 ug/ml#	86
115)	Benzo(ghi)perylene	16.598	276	4504	0.081 ug/ml#	88

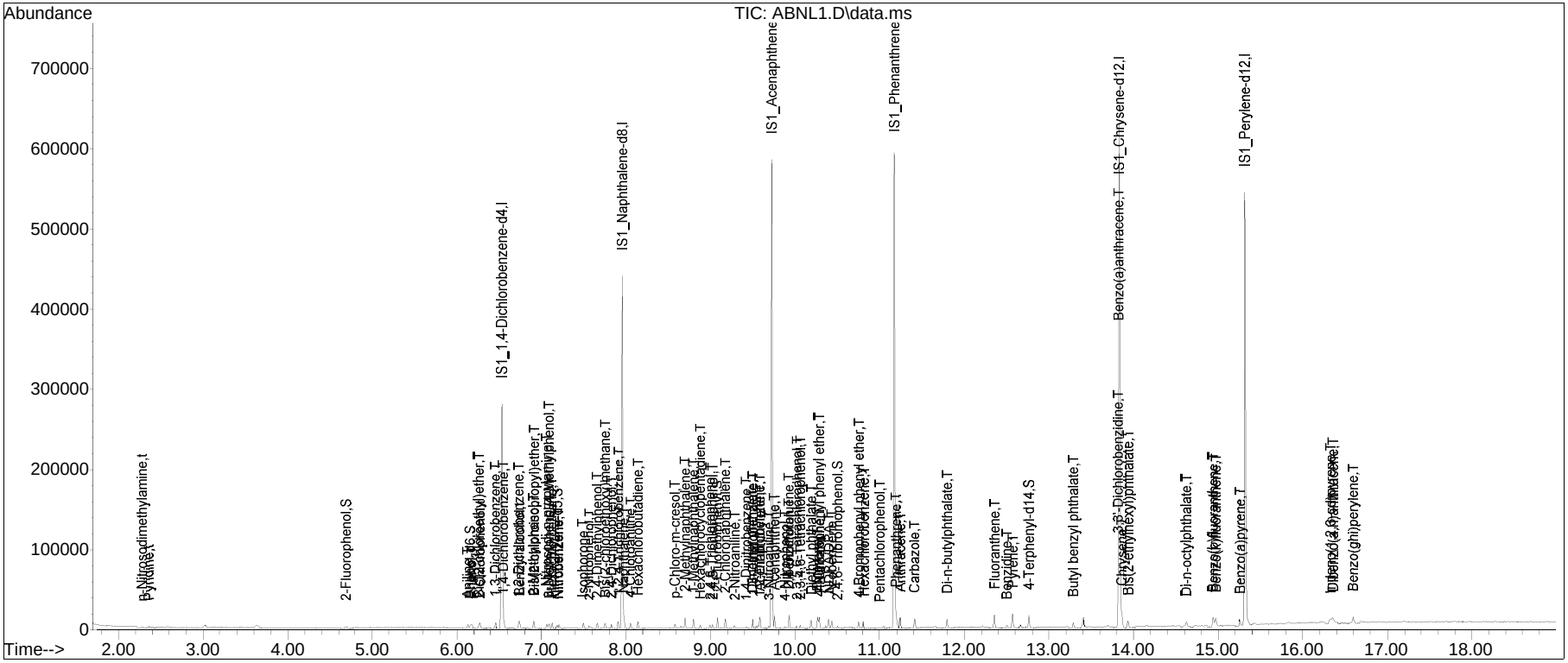
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL1.D
Acq On : 2 Jun 2024 10:56 pm
Operator : SV107:jg
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1929644,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 10:52:14 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

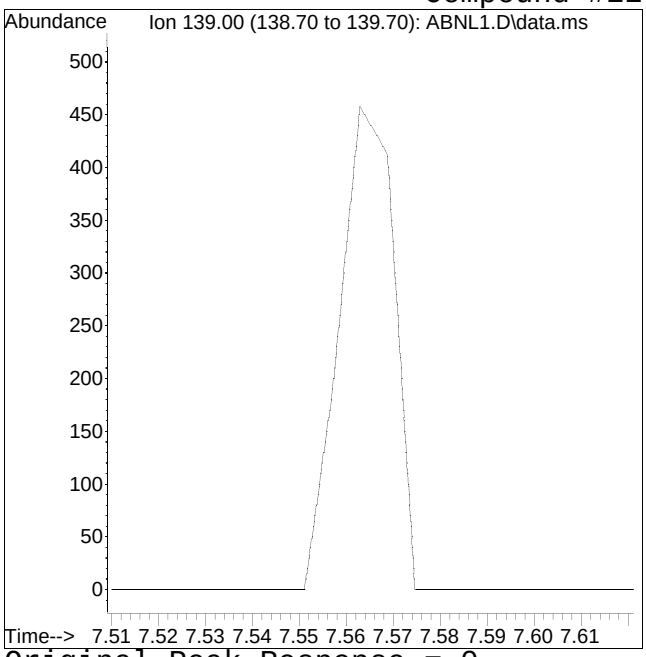
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



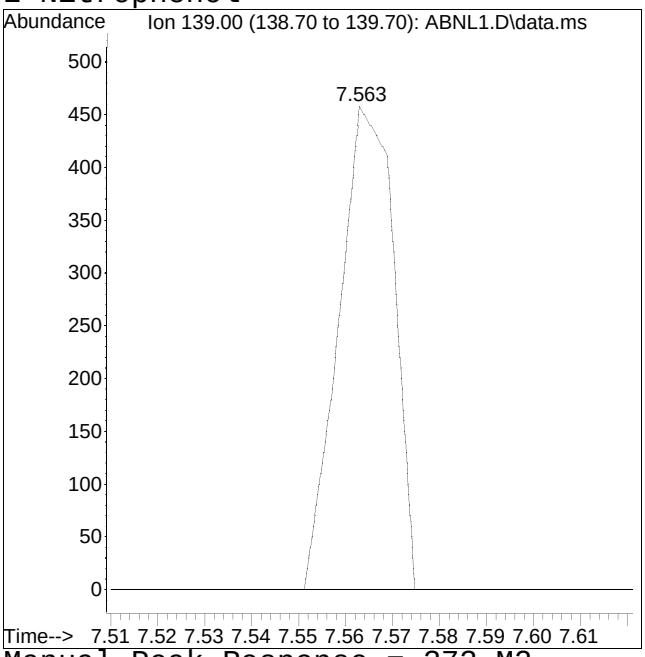
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #22: 2-Nitrophenol



Original Peak Response = 0



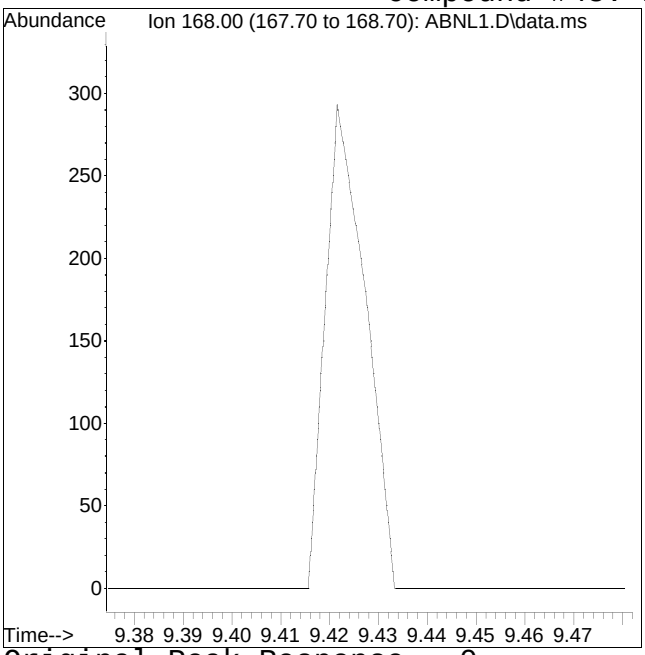
Manual Peak Response = 373 M2

M2 = Peak not found by automatic integration algorithm.

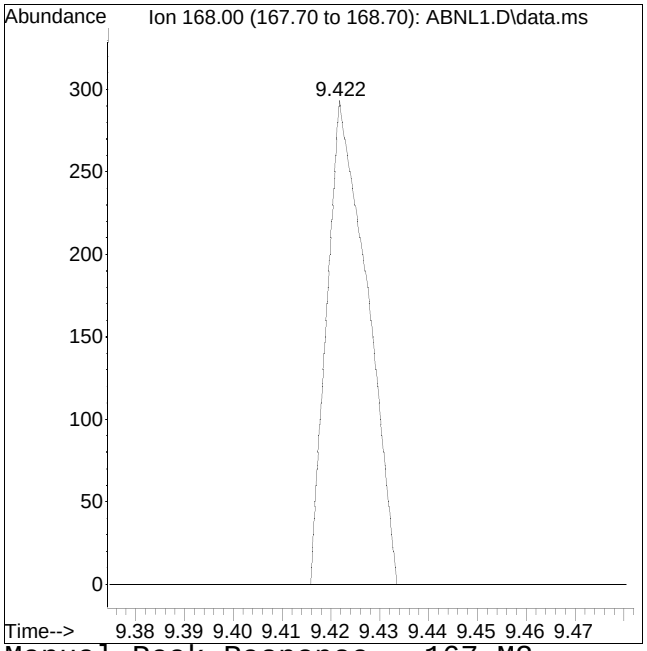
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #48: 1,4-Dinitrobenzene



Original Peak Response = 0



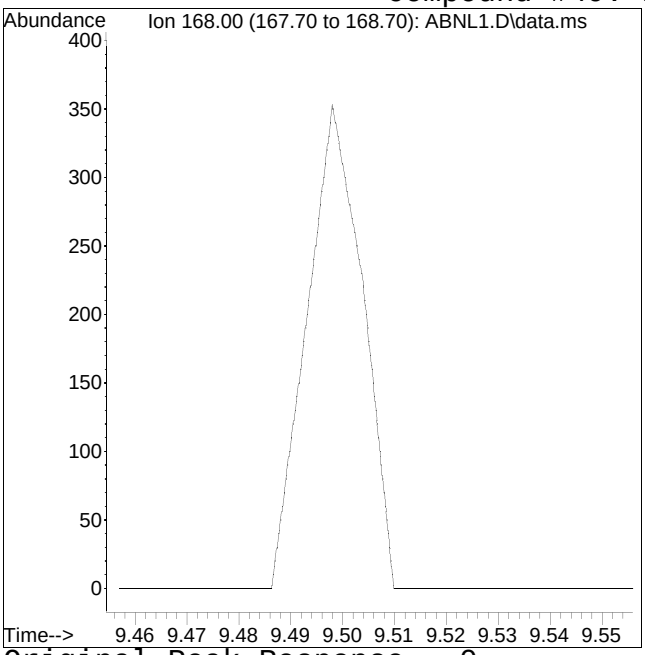
Manual Peak Response = 167 M2

M2 = Peak not found by automatic integration algorithm.

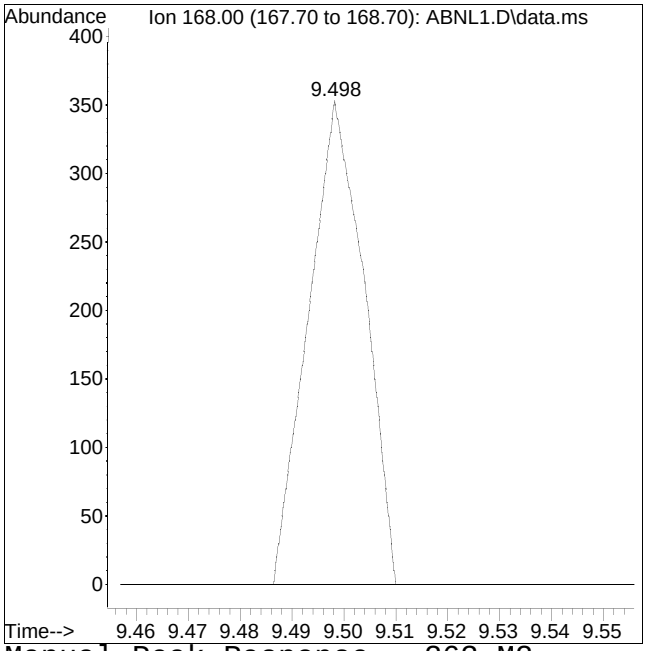
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #49: 1,3-Dinitrobenzene



Original Peak Response = 0



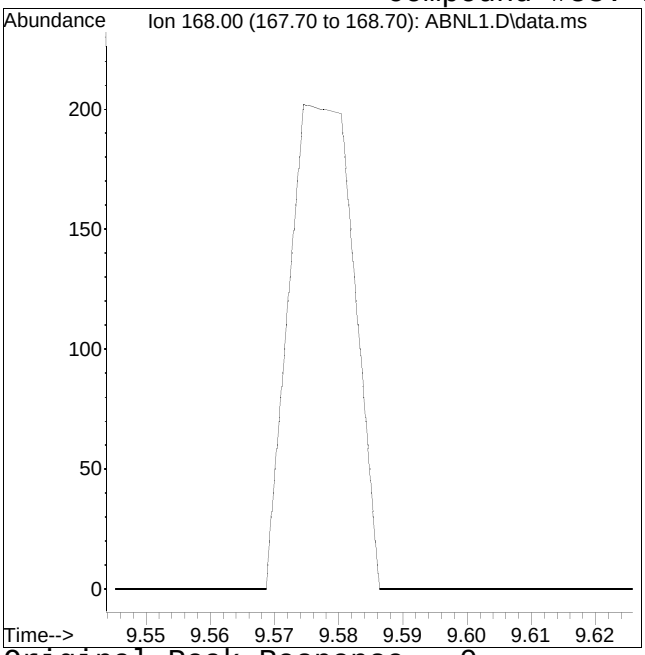
Manual Peak Response = 263 M2

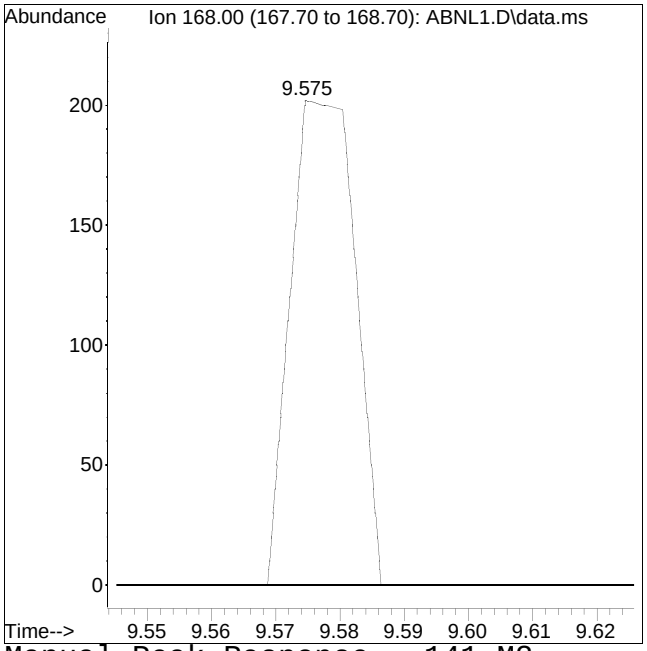
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #53: 1,2-Dinitrobenzene



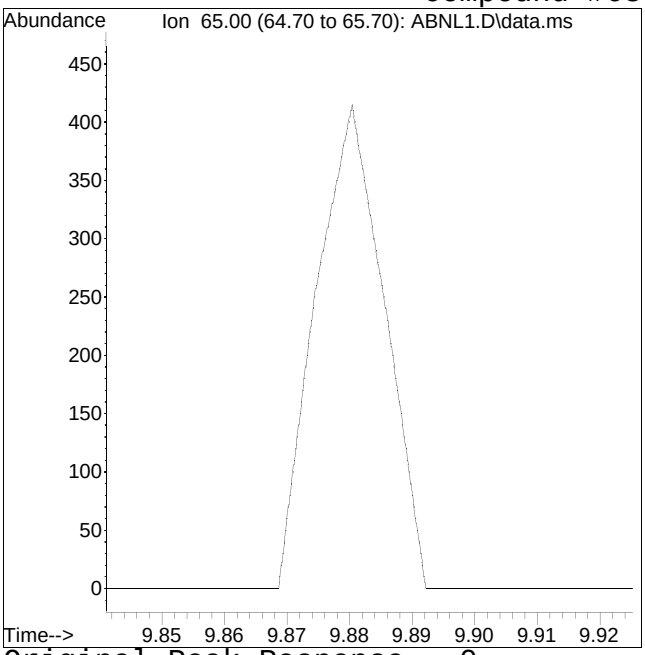


Original Peak Response = 0 Manual Peak Response = 141 M2
M2 = Peak not found by automatic integration algorithm.

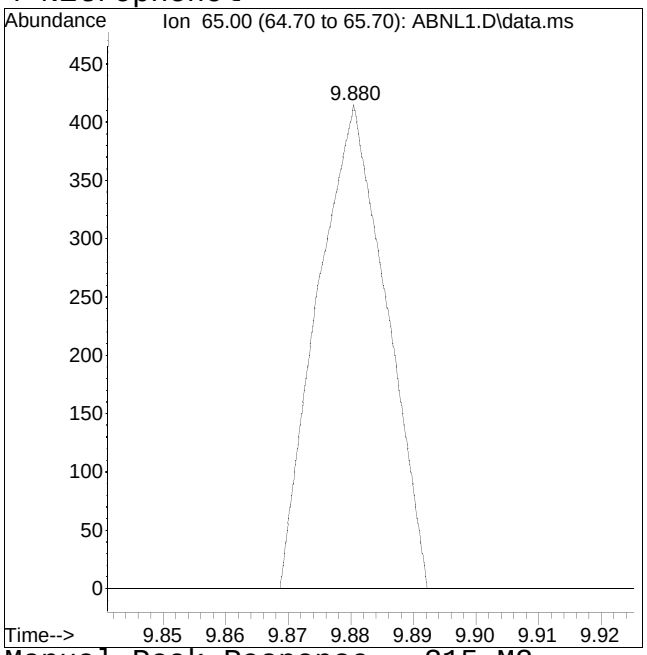
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #68: 4-Nitrophenol



Original Peak Response = 0



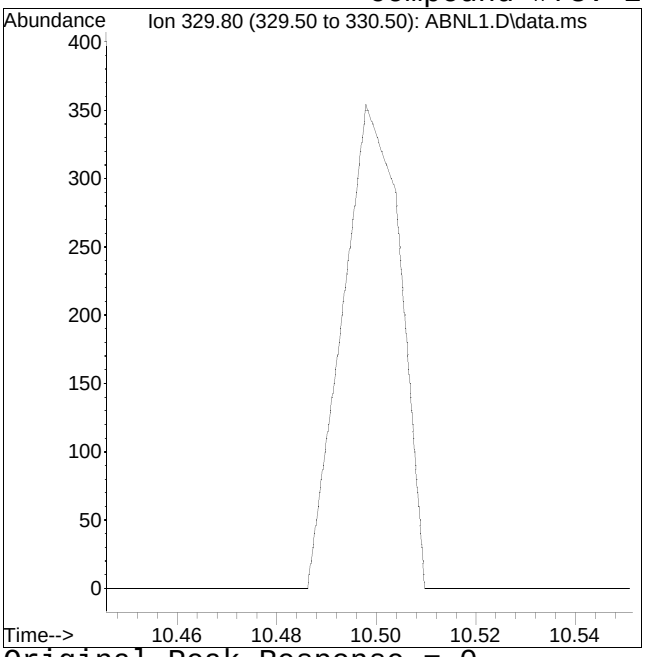
Manual Peak Response = 315 M2

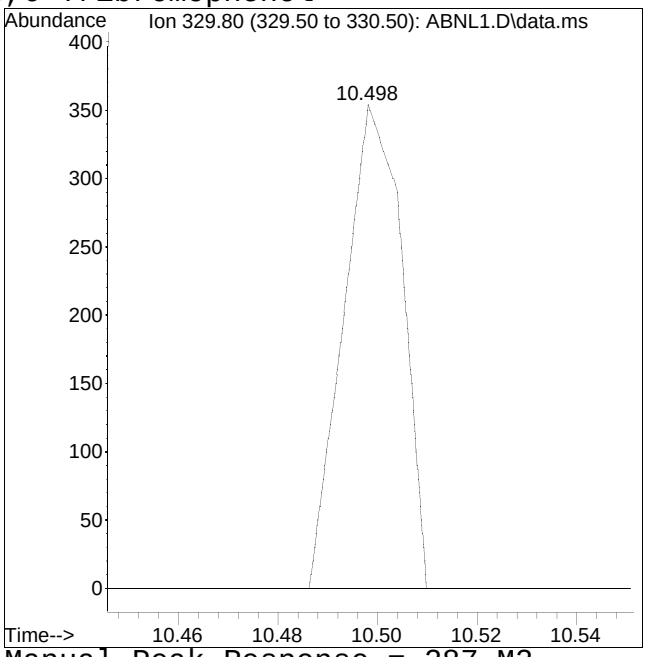
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #78: 2,4,6-Tribromophenol



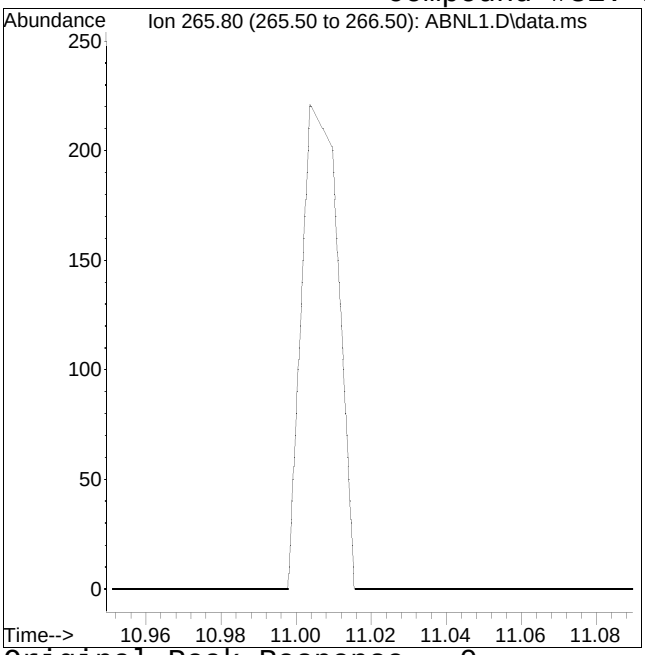


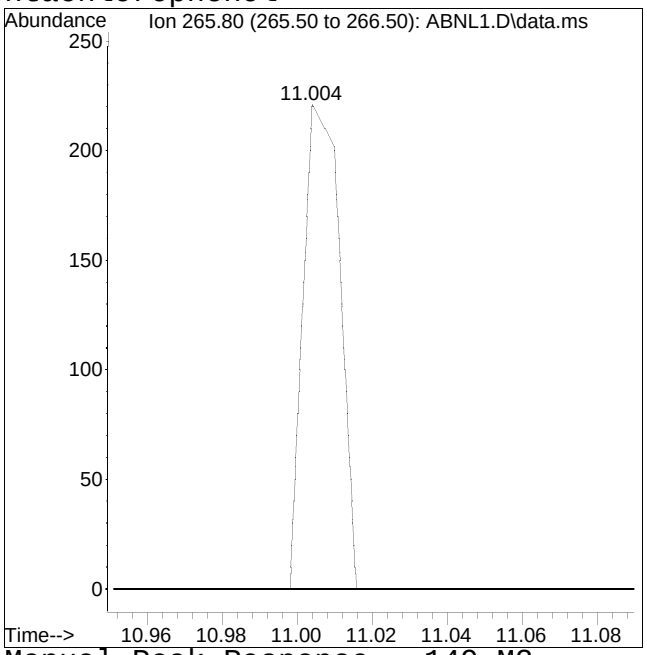
Original Peak Response = 0 Manual Peak Response = 287 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #81: Pentachlorophenol



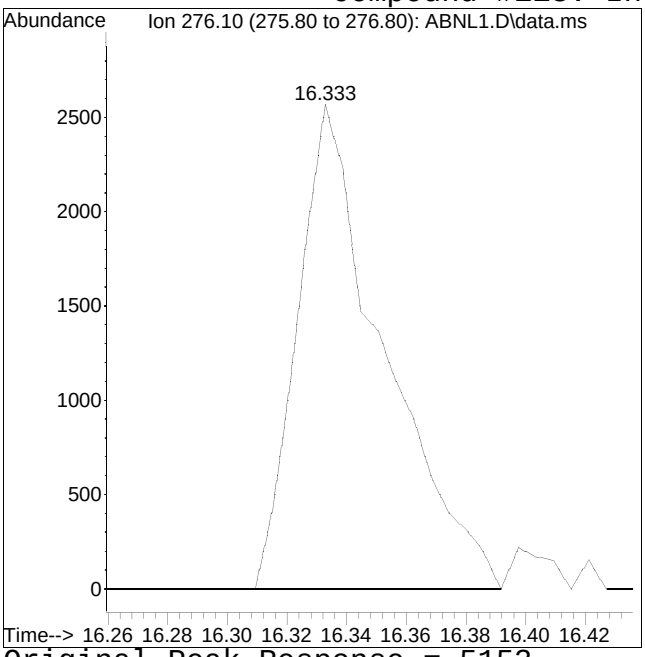


Original Peak Response = 0 Manual Peak Response = 149 M2
M2 = Peak not found by automatic integration algorithm.

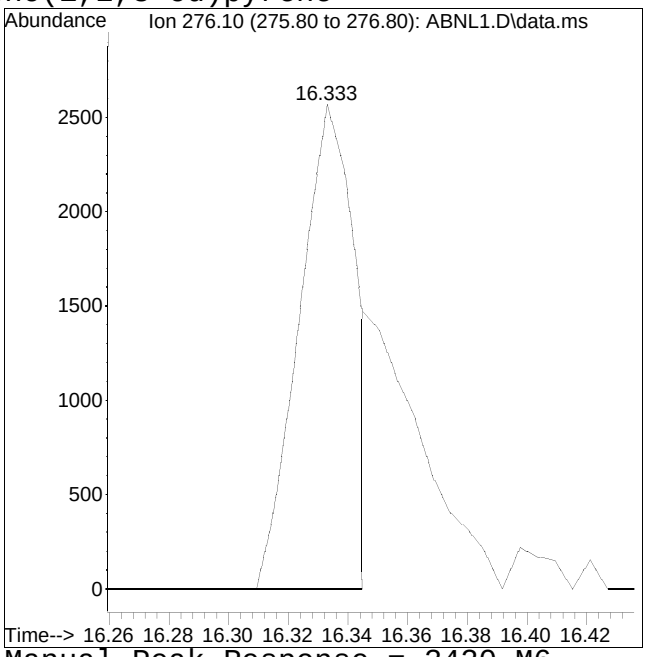
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 5153



Manual Peak Response = 3420 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L9.D
Acq On : 2 Jun 2024 11:21 pm
Operator : SV107:jg
Sample : IL2,32,,AP9L50 Lot# 10700
Misc : WG1929644,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 03 16:11:45 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.534	152	45858	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery =	103.27%		
54) IS2_Naphthalene-d8	7.957	136	172977	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery =	102.00%		
82) IS2_Acenaphthene-d10	9.728	164	104823	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery =	104.98%		
97) IS2_Phenanthrene-d10	11.169	188	219861	4.000	ug/ml #	0.00
Standard Area 3 = 214959			Recovery =	102.28%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.963	105	618134	54.604	ug/ml	98
29) Acetophenone	7.028	105	1117327	58.154	ug/ml#	82
30) m-Toluidine	7.128	106	1090647	57.246	ug/ml	95
31) 2-Chloroaniline	7.528	127	980664	57.446	ug/ml#	94
55) a-Terpineol	8.034	59	670711	61.601	ug/ml#	76
56) 3-Chloroaniline	8.039	65	344222	52.490	ug/ml	93
57) 2,6-Dichlorophenol	8.075	162	742012	64.537	ug/ml#	86
58) 1-chloro-2-nitrobenzene	8.339	111	317541	61.890	ug/ml#	1
59) Caprolactam	8.404	55	360505M3	53.080	ug/ml	
60) 1,2,4,5-Tetrachloroben...	8.875	216	906675	52.212	ug/ml	97
61) Biphenyl	9.175	154	2123620	54.675	ug/ml	98
83) Dichloran	10.869	206	258446	52.858	ug/ml#	69
84) Pentachloronitrobenzene	11.022	237	253718	57.643	ug/ml#	83
98) Diphenamid	12.080	167	1514426	74.549	ug/ml#	81

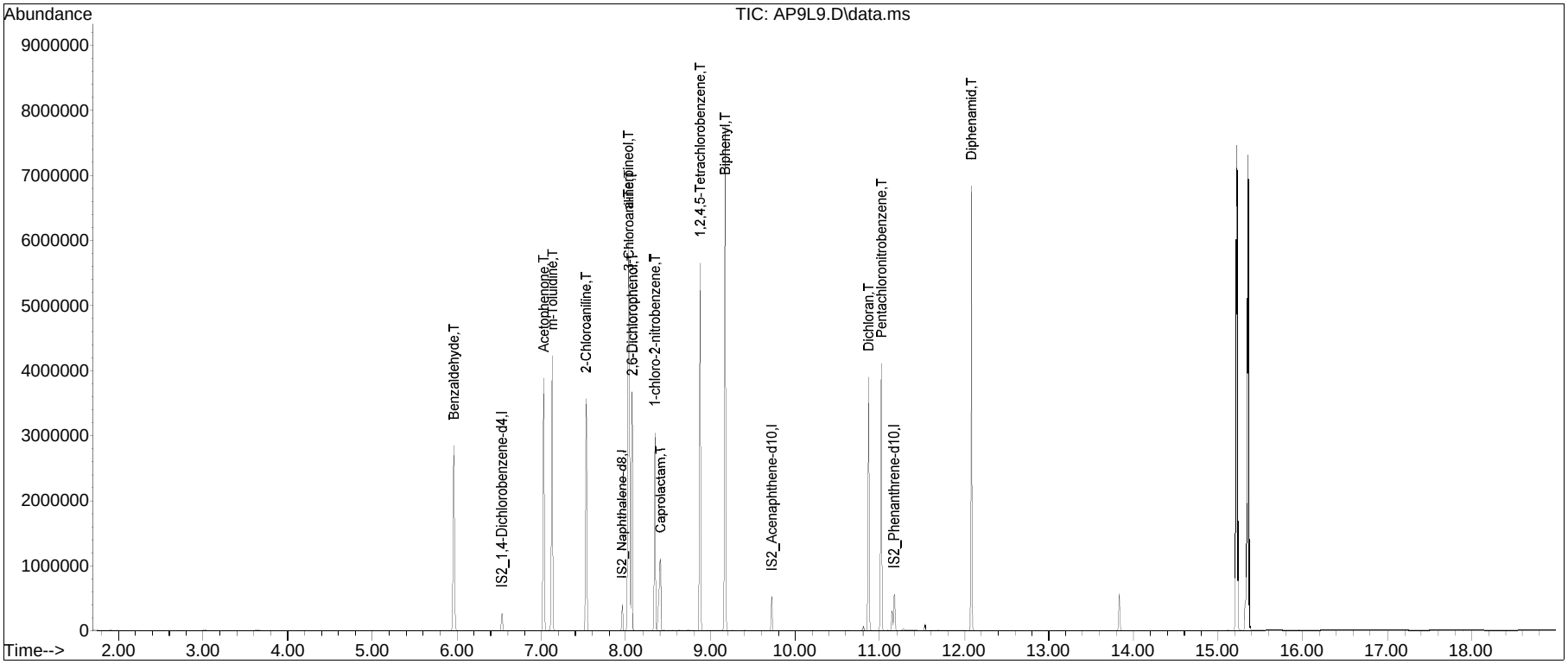
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L9.D
Acq On : 2 Jun 2024 11:21 pm
Operator : SV107:jg
Sample : IL2,32,,AP9L50 Lot# 10700
Misc : WG1929644,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 03 16:11:45 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

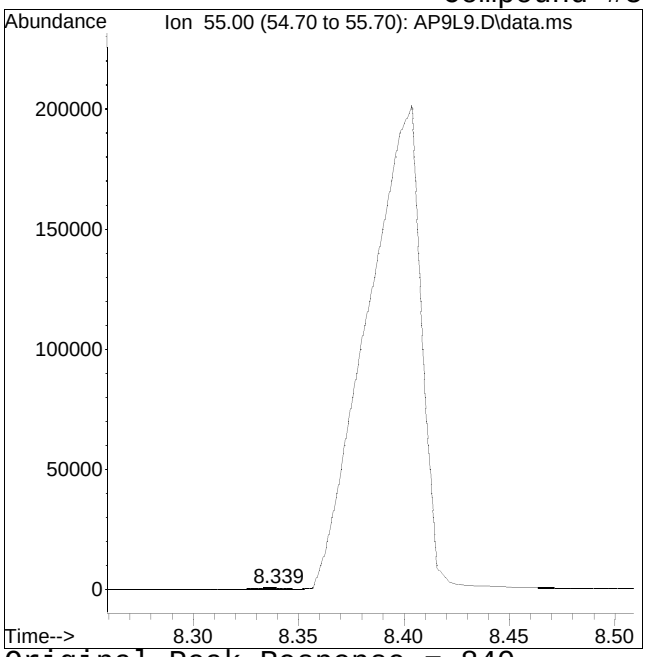
Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•

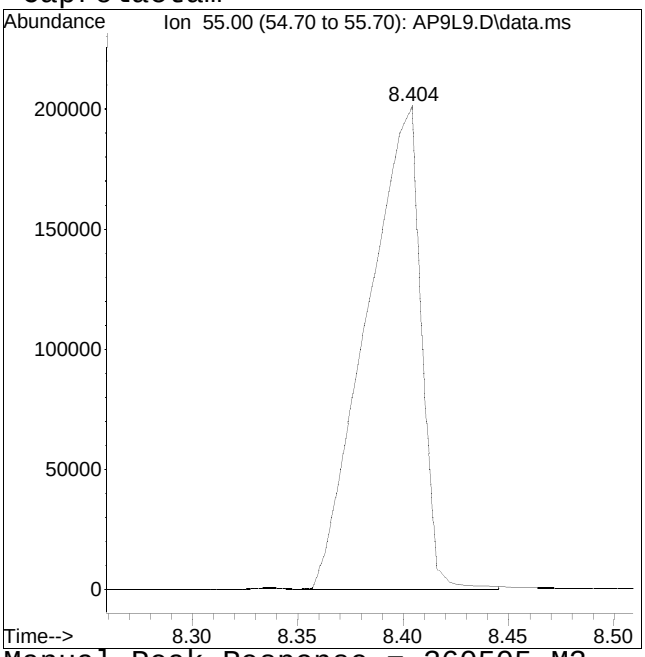


Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : AP9L9.D Operator : SV107:jg
Date Inj'd : 6/2/2024 11:21 pm Instrument : SV107
Sample : IL2,32,,AP9L50 Lot# 10700 Quant Date : 6/3/2024 10:24 am

Compound #59: Caprolactam





Original Peak Response = 840 Manual Peak Response = 360505 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L8.D
Acq On : 2 Jun 2024 11:47 pm
Operator : SV107:jg
Sample : IL3,32,,AP9L25 Lot# 10701
Misc : WG1929644,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 16:11:04 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.534	152	51703	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery =	116.43%		
54) IS2_Naphthalene-d8	7.957	136	192684	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery =	113.62%		
82) IS2_Acenaphthene-d10	9.727	164	119026	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery =	119.21%		
97) IS2_Phenanthrene-d10	11.169	188	250969	4.000	ug/ml #	0.00
Standard Area 3 = 214959			Recovery =	116.75%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.963	105	330697	25.910	ug/ml	98
29) Acetophenone	7.028	105	594302	27.435	ug/ml#	83
30) m-Toluidine	7.122	106	591629	27.543	ug/ml	95
31) 2-Chloroaniline	7.528	127	522346	27.139	ug/ml	94
55) a-Terpineol	8.028	59	360696	29.740	ug/ml#	78
56) 3-Chloroaniline	8.039	65	188453	25.798	ug/ml	91
57) 2,6-Dichlorophenol	8.069	162	398570	31.121	ug/ml#	87
58) 1-chloro-2-nitrobenzene	8.333	111	170632	29.855	ug/ml#	1
59) Caprolactam	8.386	55	201135	26.902	ug/ml#	68
60) 1,2,4,5-Tetrachloroben...	8.875	216	493850	25.530	ug/ml	97
61) Biphenyl	9.175	154	1167371	26.981	ug/ml	99
83) Dichloran	10.869	206	134106	27.858	ug/ml#	69
84) Pentachloronitrobenzene	11.016	237	134633	27.285	ug/ml#	83
98) Diphenamid	12.080	167	810689	34.960	ug/ml#	81

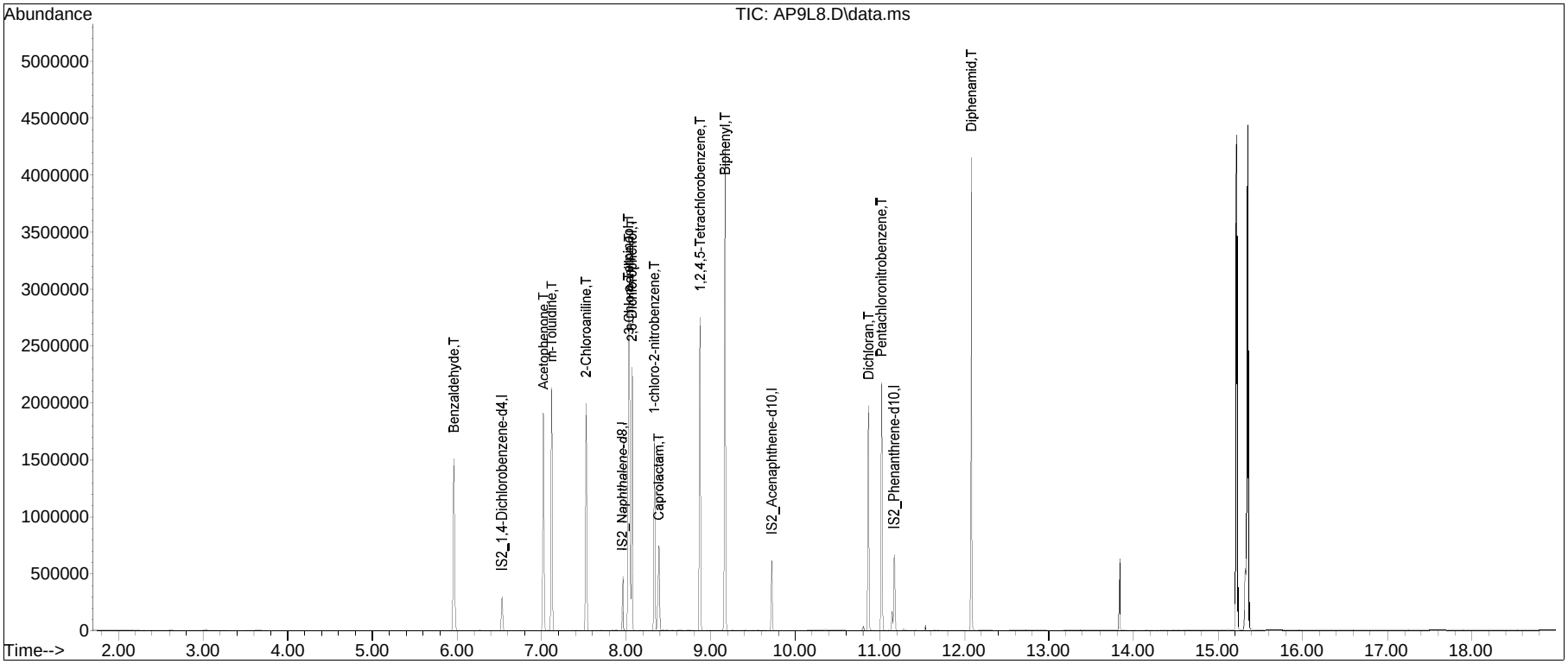
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L8.D
Acq On : 2 Jun 2024 11:47 pm
Operator : SV107:jg
Sample : IL3,32,,AP9L25 Lot# 10701
Misc : WG1929644,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 16:11:04 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L8.D	Operator	: SV107:jg
Date Inj'd	: 6/2/2024 11:47 pm	Instrument	: SV107
Sample	: IL3,32,,AP9L25 Lot# 10701	Quant Date	: 6/3/2024 10:24 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L7.D
Acq On : 3 Jun 2024 12:12 am
Operator : SV107:jg
Sample : IL4,32,,AP9L10 Lot# 10702
Misc : WG1929644,,ical
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 16:10:43 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.533	152	48096	4.000	ug/ml		0.00
Standard Area 3 = 44406			Recovery =	108.31%			
54) IS2_Naphthalene-d8	7.957	136	179982	4.000	ug/ml		0.00
Standard Area 3 = 169580			Recovery =	106.13%			
82) IS2_Acenaphthene-d10	9.727	164	110207	4.000	ug/ml		0.00
Standard Area 3 = 99848			Recovery =	110.37%			
97) IS2_Phenanthrene-d10	11.168	188	230804	4.000	ug/ml	#	0.00
Standard Area 3 = 214959			Recovery =	107.37%			
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.963	105	123578	10.408	ug/ml		99
29) Acetophenone	7.022	105	219138	10.875	ug/ml	#	83
30) m-Toluidine	7.122	106	212267	10.623	ug/ml		95
31) 2-Chloroaniline	7.528	127	192499	10.752	ug/ml	#	93
55) a-Terpineol	8.027	59	128933	11.381	ug/ml	#	76
56) 3-Chloroaniline	8.039	65	68122	9.984	ug/ml		91
57) 2,6-Dichlorophenol	8.069	162	142626	11.922	ug/ml	#	87
58) 1-chloro-2-nitrobenzene	8.333	111	59869	11.214	ug/ml	#	1
59) Caprolactam	8.375	55	72277	10.740	ug/ml	#	68
60) 1,2,4,5-Tetrachloroben...	8.874	216	178600	9.885	ug/ml		97
61) Biphenyl	9.174	154	412907	10.217	ug/ml		99
83) Dichloran	10.863	206	40375	10.432	ug/ml	#	74
84) Pentachloronitrobenzene	11.016	237	44261	10.108	ug/ml	#	83
98) Diphenamid	12.080	167	288397	13.523	ug/ml		82

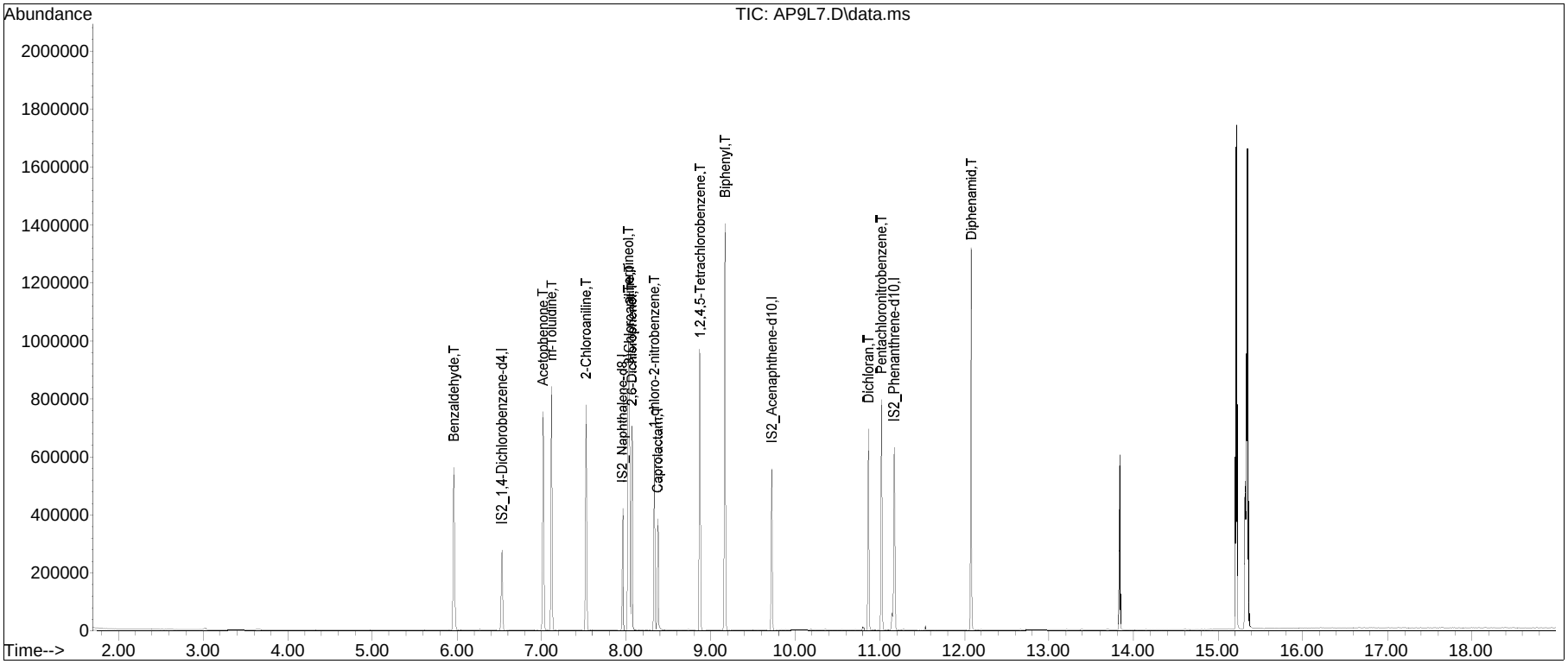
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L7.D
Acq On : 3 Jun 2024 12:12 am
Operator : SV107:jg
Sample : IL4,32,,AP9L10 Lot# 10702
Misc : WG1929644,,ical
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 16:10:43 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L7.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 12:12 am	Instrument	: SV107
Sample	: IL4,32,,AP9L10 Lot# 10702	Quant Date	: 6/3/2024 10:24 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L6.D
Acq On : 3 Jun 2024 12:37 am
Operator : SV107:jg
Sample : IL5,32,,AP9L5 Lot# 10703
Misc : WG1929644,,ical
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 03 16:10:21 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.534	152	44406	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery =	100.00%		
54) IS2_Naphthalene-d8	7.957	136	169580	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery =	100.00%		
82) IS2_Acenaphthene-d10	9.728	164	99848	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery =	100.00%		
97) IS2_Phenanthrene-d10	11.169	188	214959	4.000	ug/ml #	0.00
Standard Area 3 = 214959			Recovery =	100.00%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.963	105	53347	4.867	ug/ml	98
29) Acetophenone	7.022	105	94421	5.075	ug/ml#	82
30) m-Toluidine	7.122	106	90846	4.924	ug/ml	94
31) 2-Chloroaniline	7.528	127	83530	5.053	ug/ml#	94
55) a-Terpineol	8.022	59	54760	5.130	ug/ml#	77
56) 3-Chloroaniline	8.034	65	29581	4.601	ug/ml	89
57) 2,6-Dichlorophenol	8.063	162	59495	5.278	ug/ml#	87
58) 1-chloro-2-nitrobenzene	8.334	111	23611	4.694	ug/ml#	1
59) Caprolactam	8.369	55	30038	5.091	ug/ml#	71
60) 1,2,4,5-Tetrachloroben...	8.869	216	78097	4.587	ug/ml	97
61) Biphenyl	9.175	154	181083	4.756	ug/ml	99
83) Dichloran	10.863	206	14102	4.535	ug/ml#	80
84) Pentachloronitrobenzene	11.016	237	16652	4.578	ug/ml#	83
98) Diphenamid	12.074	167	116240	5.852	ug/ml#	81

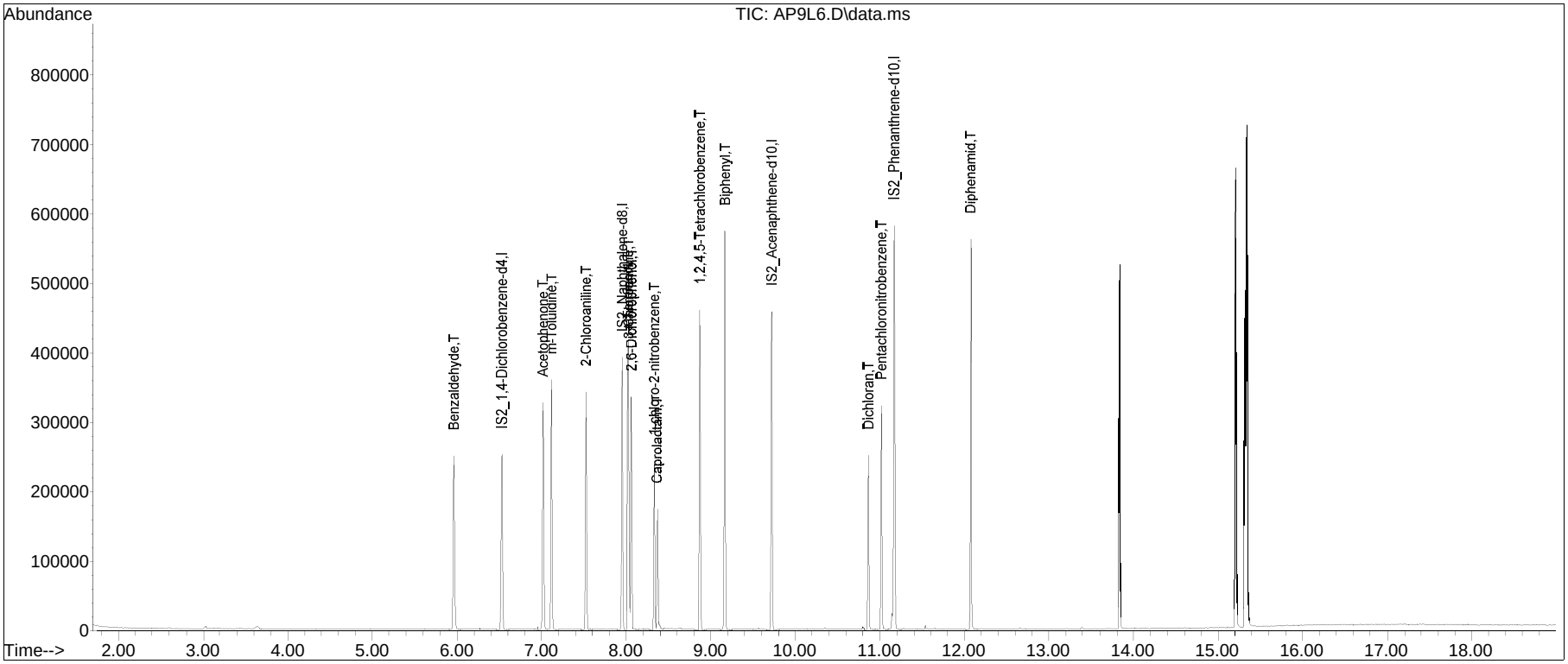
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L6.D
Acq On : 3 Jun 2024 12:37 am
Operator : SV107:jg
Sample : IL5,32,,AP9L5 Lot# 10703
Misc : WG1929644,,ical
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 03 16:10:21 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L6.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 12:37 am	Instrument	: SV107
Sample	: IL5,32,,AP9L5 Lot# 10703	Quant Date	: 6/3/2024 10:24 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L5.D
Acq On : 3 Jun 2024 1:08 am
Operator : SV107:jg
Sample : IL6,32,,AP9L2.5 Lot# 10704
Misc : WG1929644,,ical
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 03 16:10:01 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.540	152	46890	4.000	ug/ml		0.00
Standard Area 3 = 44406			Recovery = 105.59%				
54) IS2_Naphthalene-d8	7.957	136	170919	4.000	ug/ml		0.00
Standard Area 3 = 169580			Recovery = 100.79%				
82) IS2_Acenaphthene-d10	9.728	164	103469	4.000	ug/ml		0.00
Standard Area 3 = 99848			Recovery = 103.63%				
97) IS2_Phenanthrene-d10	11.175	188	220465	4.000	ug/ml	#	0.00
Standard Area 3 = 214959			Recovery = 102.56%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.975	105	28474	2.460	ug/ml		98
29) Acetophenone	7.028	105	49113	2.500	ug/ml	#	85
30) m-Toluidine	7.128	106	46785	2.402	ug/ml		95
31) 2-Chloroaniline	7.534	127	43298	2.481	ug/ml	#	93
55) a-Terpineol	8.028	59	27803	2.584	ug/ml	#	76
56) 3-Chloroaniline	8.040	65	15735	2.428	ug/ml		86
57) 2,6-Dichlorophenol	8.069	162	30396	2.676	ug/ml	#	88
58) 1-chloro-2-nitrobenzene	8.339	111	12100	2.387	ug/ml	#	1
59) Caprolactam	8.369	55	14231	2.729	ug/ml	#	69
60) 1,2,4,5-Tetrachloroben...	8.875	216	40773	2.376	ug/ml		97
61) Biphenyl	9.175	154	95343	2.484	ug/ml		99
83) Dichloran	10.869	206	6586	2.397	ug/ml	#	80
84) Pentachloronitrobenzene	11.022	237	7921	2.454	ug/ml	#	82
98) Diphenamid	12.080	167	59344	2.913	ug/ml	#	82

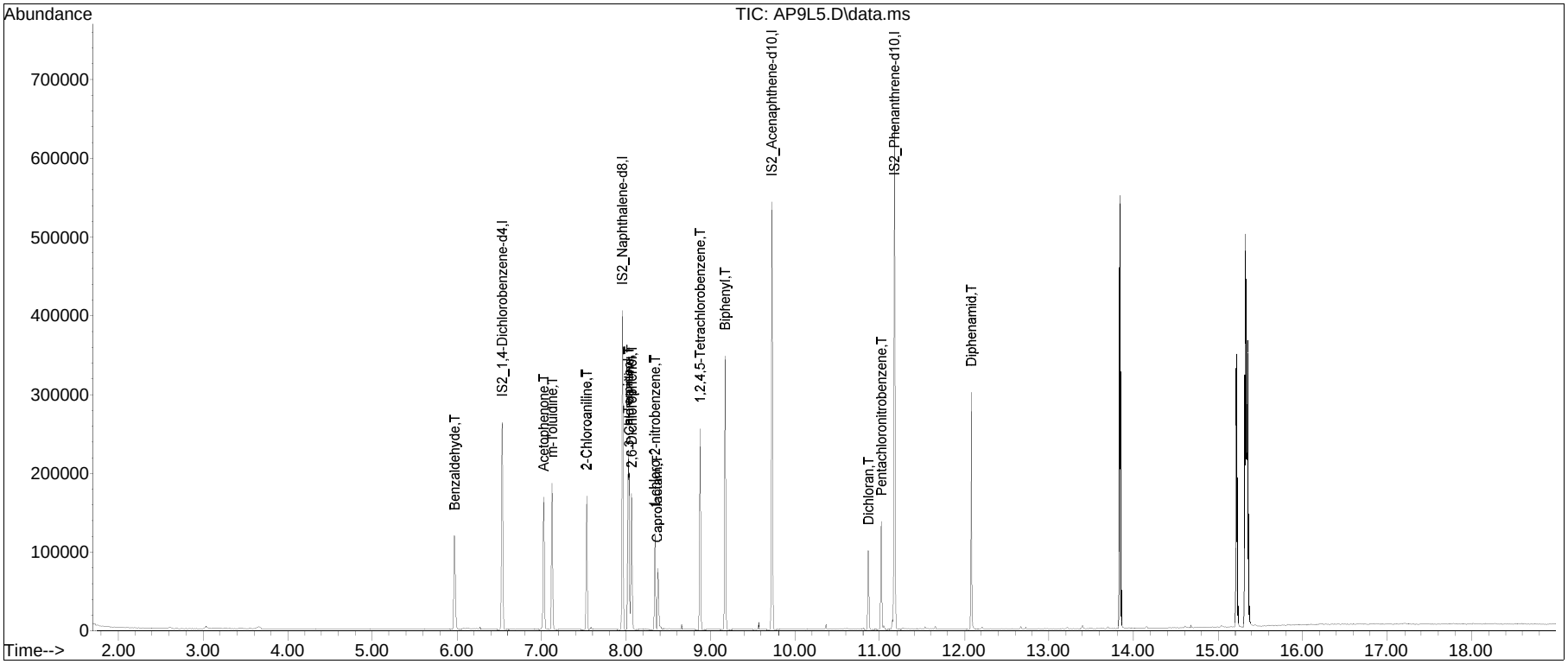
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L5.D
Acq On : 3 Jun 2024 1:08 am
Operator : SV107:jg
Sample : IL6,32,,AP9L2.5 Lot# 10704
Misc : WG1929644,,ical
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 03 16:10:01 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L5.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 1:08 am	Instrument	: SV107
Sample	: IL6,32,,AP9L2.5 Lot# 10704	Quant Date	: 6/3/2024 10:24 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L4.D
Acq On : 3 Jun 2024 1:33 am
Operator : SV107:jg
Sample : IL7,32,,AP9L1 Lot# 10705
Misc : WG1929644,,ical
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 03 16:09:41 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.534	152	47509	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery =	106.99%		
54) IS2_Naphthalene-d8	7.957	136	173835	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery =	102.51%		
82) IS2_Acenaphthene-d10	9.728	164	103977	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery =	104.14%		
97) IS2_Phenanthrene-d10	11.169	188	219480	4.000	ug/ml #	0.00
Standard Area 3 = 214959			Recovery =	102.10%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.969	105	12095	1.031	ug/ml	95
29) Acetophenone	7.028	105	20411	1.025	ug/ml#	85
30) m-Toluidine	7.122	106	18578	0.941	ug/ml	93
31) 2-Chloroaniline	7.528	127	17491	0.989	ug/ml	94
55) a-Terpineol	8.022	59	11870	1.085	ug/ml#	79
56) 3-Chloroaniline	8.040	65	6420	0.974	ug/ml	82
57) 2,6-Dichlorophenol	8.063	162	11983	1.037	ug/ml#	87
58) 1-chloro-2-nitrobenzene	8.334	111	4685	0.909	ug/ml#	1
59) Caprolactam	8.369	55	5453	1.423	ug/ml#	80
60) 1,2,4,5-Tetrachloroben...	8.869	216	17097	0.980	ug/ml#	95
61) Biphenyl	9.175	154	38926	0.997	ug/ml	99
83) Dichloran	10.863	206	2167	1.192	ug/ml	85
84) Pentachloronitrobenzene	11.016	237	2723	1.268	ug/ml#	84
98) Diphenamid	12.075	167	22513	1.110	ug/ml#	81

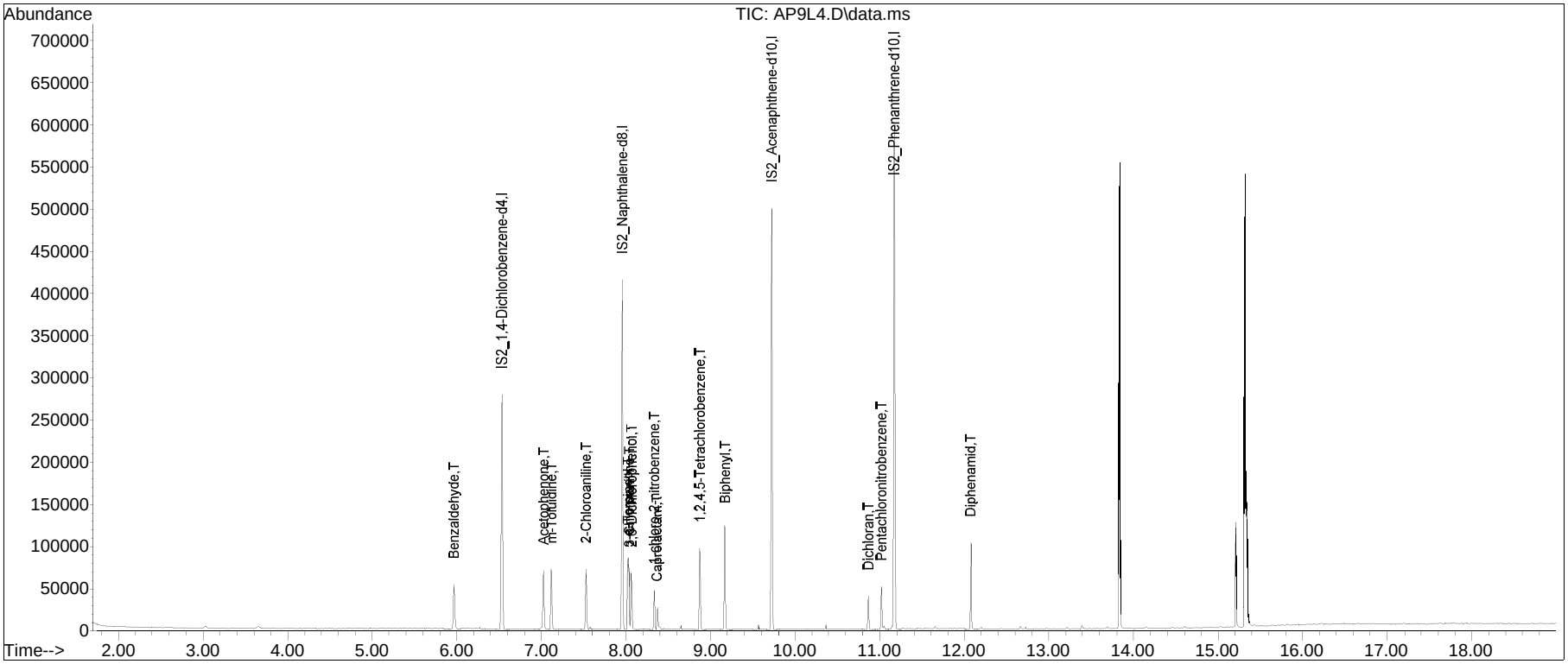
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L4.D
Acq On : 3 Jun 2024 1:33 am
Operator : SV107:jg
Sample : IL7,32,,AP9L1 Lot# 10705
Misc : WG1929644,,ical
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 03 16:09:41 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L4.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 1:33 am	Instrument	: SV107
Sample	: IL7,32,,AP9L1 Lot# 10705	Quant Date	: 6/3/2024 10:24 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L3.D
Acq On : 3 Jun 2024 1:58 am
Operator : SV107:jg
Sample : IL8,32,,AP9L0.5 Lot# 10706
Misc : WG1929644,,ical
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 03 16:09:21 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.534	152	49009	4.000	ug/ml		0.00
Standard Area 3 = 44406			Recovery = 110.37%				
54) IS2_Naphthalene-d8	7.957	136	179546	4.000	ug/ml		0.00
Standard Area 3 = 169580			Recovery = 105.88%				
82) IS2_Acenaphthene-d10	9.728	164	109029	4.000	ug/ml		0.00
Standard Area 3 = 99848			Recovery = 109.19%				
97) IS2_Phenanthrene-d10	11.169	188	231050	4.000	ug/ml	#	0.00
Standard Area 3 = 214959			Recovery = 107.49%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.969	105	6140	0.508	ug/ml		97
29) Acetophenone	7.028	105	10875	0.530	ug/ml	#	91
30) m-Toluidine	7.122	106	9689	0.476	ug/ml		93
31) 2-Chloroaniline	7.528	127	9015	0.494	ug/ml		94
55) a-Terpineol	8.022	59	6227	0.551	ug/ml	#	77
56) 3-Chloroaniline	8.039	65	3347	0.492	ug/ml		89
57) 2,6-Dichlorophenol	8.063	162	6354	0.532	ug/ml	#	89
58) 1-chloro-2-nitrobenzene	8.334	111	2550	0.479	ug/ml	#	1
59) Caprolactam	8.369	55	2660	1.007	ug/ml	#	93
60) 1,2,4,5-Tetrachloroben...	8.875	216	9408	0.522	ug/ml	#	94
61) Biphenyl	9.175	154	21583	0.535	ug/ml		99
83) Dichloran	10.863	206	1250	0.926	ug/ml	#	79
84) Pentachloronitrobenzene	11.016	237	1494	0.974	ug/ml	#	81
98) Diphenamid	12.080	167	11982	0.561	ug/ml	#	79

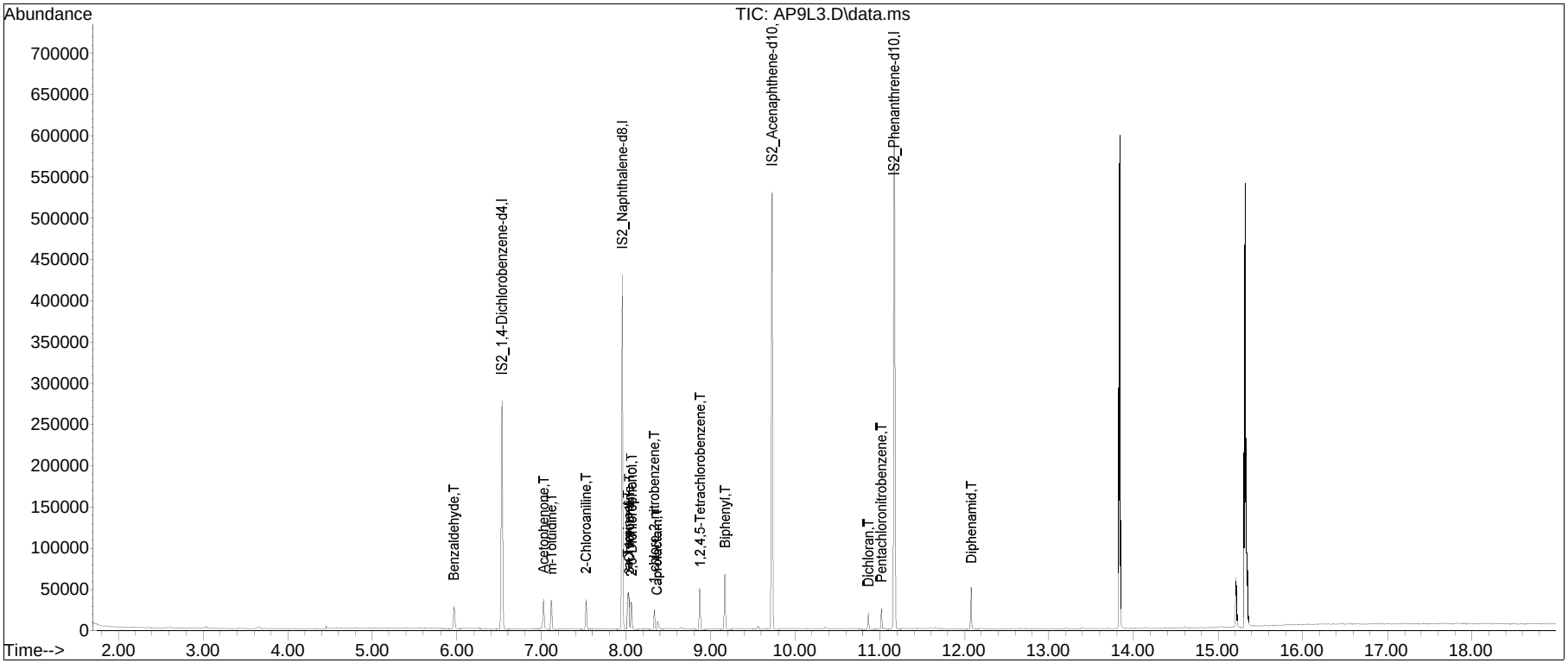
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L3.D
Acq On : 3 Jun 2024 1:58 am
Operator : SV107:jg
Sample : IL8,32,,AP9L0.5 Lot# 10706
Misc : WG1929644,,ical
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 03 16:09:21 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L3.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 1:58 am	Instrument	: SV107
Sample	: IL8,32,,AP9L0.5 Lot# 10706	Quant Date	: 6/3/2024 10:24 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L2.D
Acq On : 3 Jun 2024 2:23 am
Operator : SV107:jg
Sample : IL9,32,,AP9L0.2 Lot# 10707
Misc : WG1929644,,ical
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 03 16:08:57 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.534	152	49463	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery =	111.39%		
54) IS2_Naphthalene-d8	7.957	136	179922	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery =	106.10%		
82) IS2_Acenaphthene-d10	9.728	164	109290	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery =	109.46%		
97) IS2_Phenanthrene-d10	11.169	188	228813	4.000	ug/ml	# 0.00
Standard Area 3 = 214959			Recovery =	106.44%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.975	105	2696	0.221	ug/ml	93
29) Acetophenone	7.028	105	4186	0.202	ug/ml#	92
30) m-Toluidine	7.122	106	3525	0.172	ug/ml	95
31) 2-Chloroaniline	7.528	127	3896	0.212	ug/ml	94
55) a-Terpineol	8.022	59	2243	0.198	ug/ml#	68
56) 3-Chloroaniline	8.040	65	1322	0.194	ug/ml	82
57) 2,6-Dichlorophenol	8.063	162	2307	0.193	ug/ml#	88
58) 1-chloro-2-nitrobenzene	8.334	111	1090	0.204	ug/ml#	1
59) Caprolactam	8.387	55	790	0.745	ug/ml#	43
60) 1,2,4,5-Tetrachloroben...	8.869	216	3668	0.203	ug/ml	94
61) Biphenyl	9.175	154	8671	0.215	ug/ml	100
83) Dichloran	10.863	206	506	0.731	ug/ml#	69
84) Pentachloronitrobenzene	11.016	237	485	0.756	ug/ml#	37
98) Diphenamid	12.075	167	4329	0.205	ug/ml	83

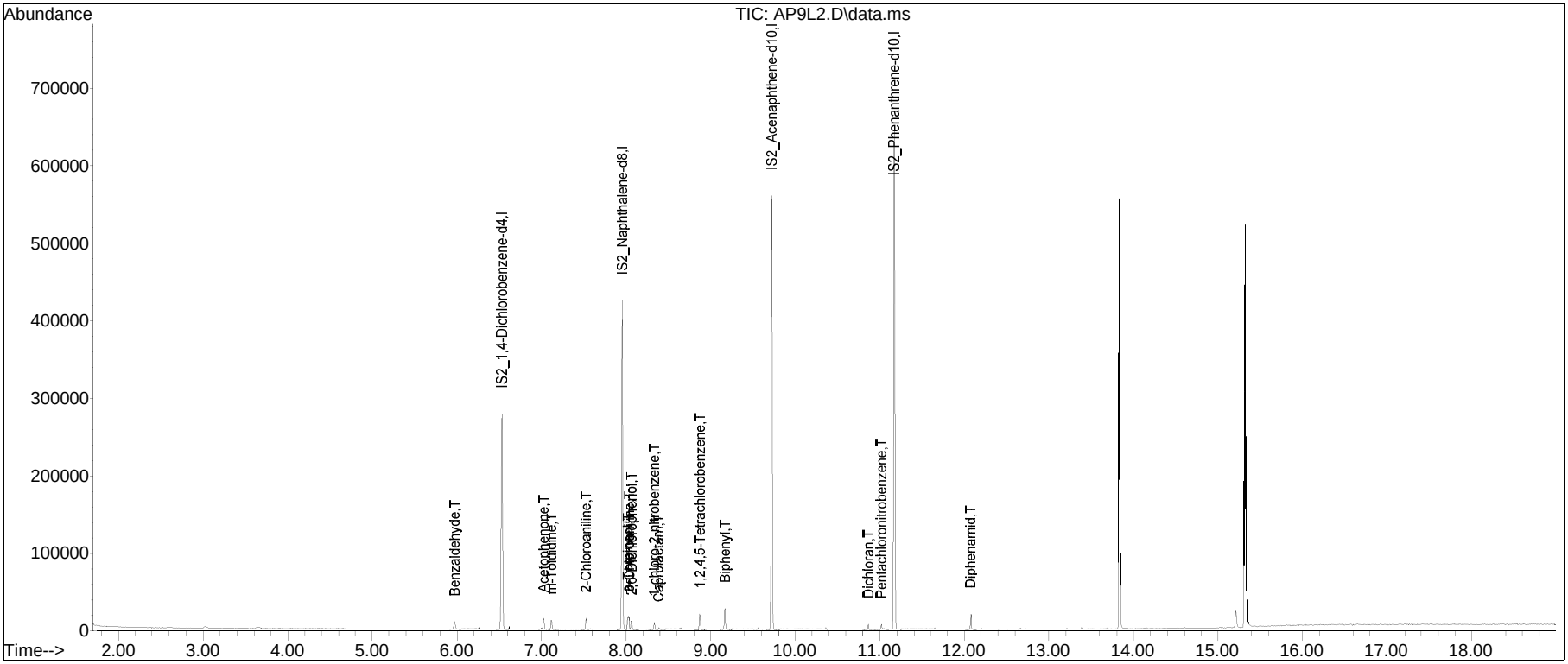
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L2.D
Acq On : 3 Jun 2024 2:23 am
Operator : SV107:jg
Sample : IL9,32,,AP9L0.2 Lot# 10707
Misc : WG1929644,,ical
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 03 16:08:57 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L2.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 2:23 am	Instrument	: SV107
Sample	: IL9,32,,AP9L0.2 Lot# 10707	Quant Date	: 6/3/2024 10:24 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L1.D
Acq On : 3 Jun 2024 2:49 am
Operator : SV107:jg
Sample : IL10,32,,AP9L0.1 Lot# 10708
Misc : WG1929644,,ical
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 03 16:08:36 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.534	152	49963	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery = 112.51%			
54) IS2_Naphthalene-d8	7.957	136	180953	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery = 106.71%			
82) IS2_Acenaphthene-d10	9.727	164	108611	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery = 108.78%			
97) IS2_Phenanthrene-d10	11.169	188	222108	4.000	ug/ml	# 0.00
Standard Area 3 = 214959			Recovery = 103.33%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.975	105	1301	0.105	ug/ml	91
29) Acetophenone	7.028	105	2195	0.105	ug/ml#	81
30) m-Toluidine	7.128	106	1360	0.066	ug/ml#	93
31) 2-Chloroaniline	7.528	127	1858	0.100	ug/ml#	92
55) a-Terpineol	8.022	59	1234	0.108	ug/ml#	75
56) 3-Chloroaniline	8.033	65	582	0.085	ug/ml	87
57) 2,6-Dichlorophenol	8.069	162	1076	0.089	ug/ml#	89
58) 1-chloro-2-nitrobenzene	8.333	111	460	0.086	ug/ml#	1
59) Caprolactam	0.000		0	N.D.		
60) 1,2,4,5-Tetrachloroben...	8.869	216	1907	0.105	ug/ml#	87
61) Biphenyl	9.175	154	4181	0.103	ug/ml	97
83) Dichloran	10.863	206	245M2	0.663	ug/ml	
84) Pentachloronitrobenzene	11.016	237	92M6	0.671	ug/ml	
98) Diphenamid	12.074	167	2056	0.100	ug/ml	86

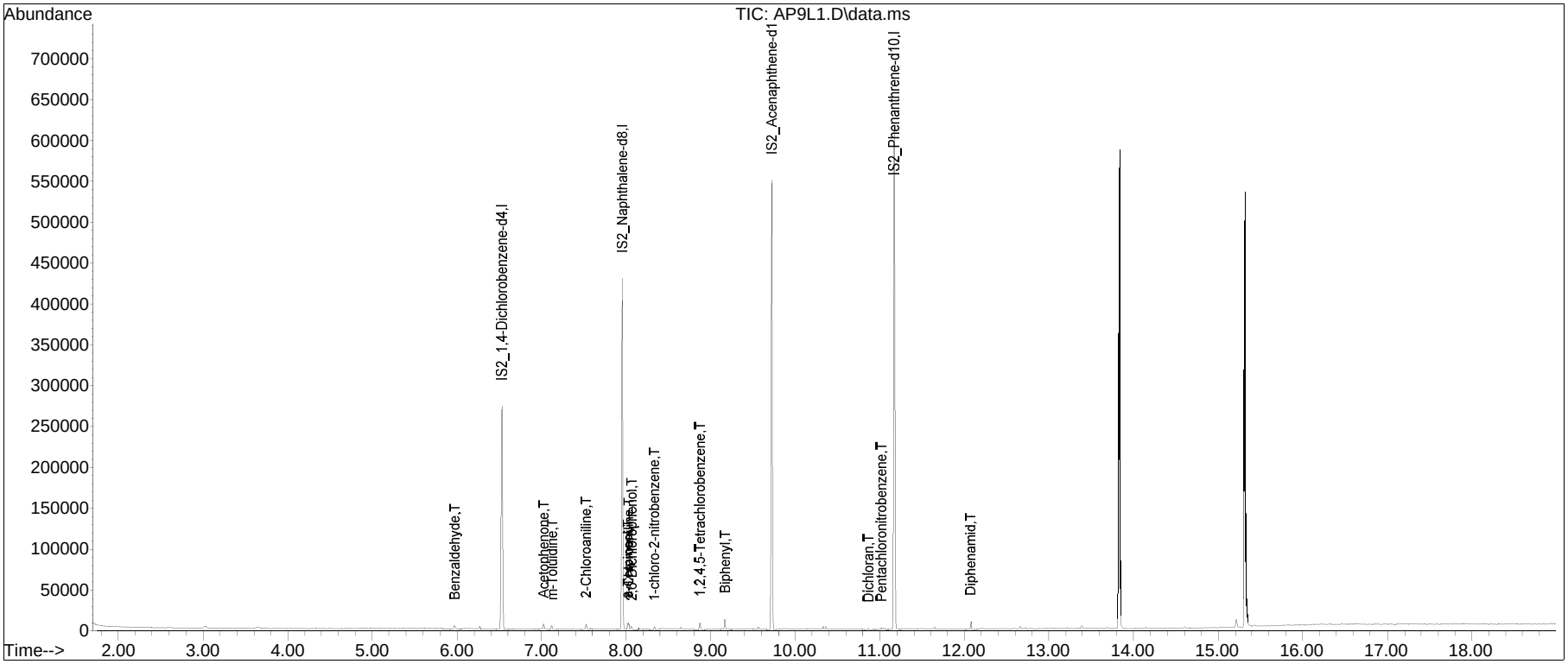
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L1.D
Acq On : 3 Jun 2024 2:49 am
Operator : SV107:jg
Sample : IL10,32,,AP9L0.1 Lot# 10708
Misc : WG1929644,,ical
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 03 16:08:36 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

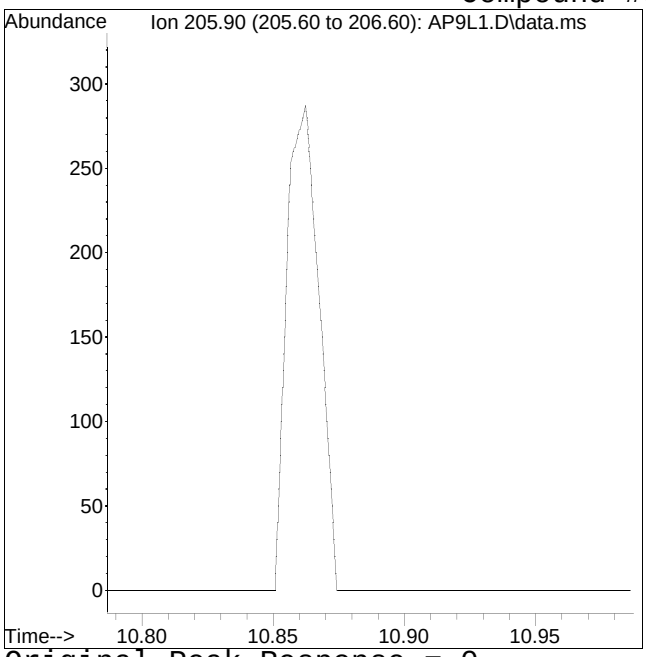
Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



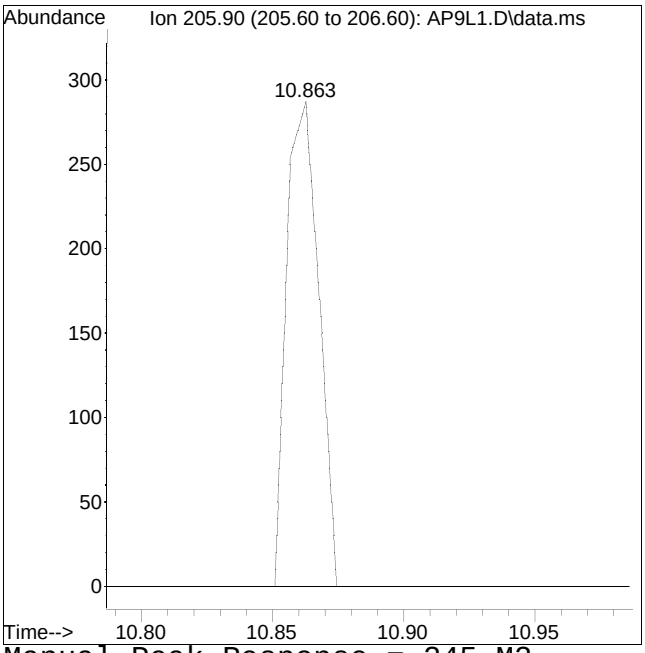
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : AP9L1.D Operator : SV107:jg
Date Inj'd : 6/3/2024 2:49 am Instrument : SV107
Sample : IL10,32,,AP9L0.1 Lot# 1070Quant Date : 6/3/2024 10:23 am

Compound #83: Dichloran



Original Peak Response = 0



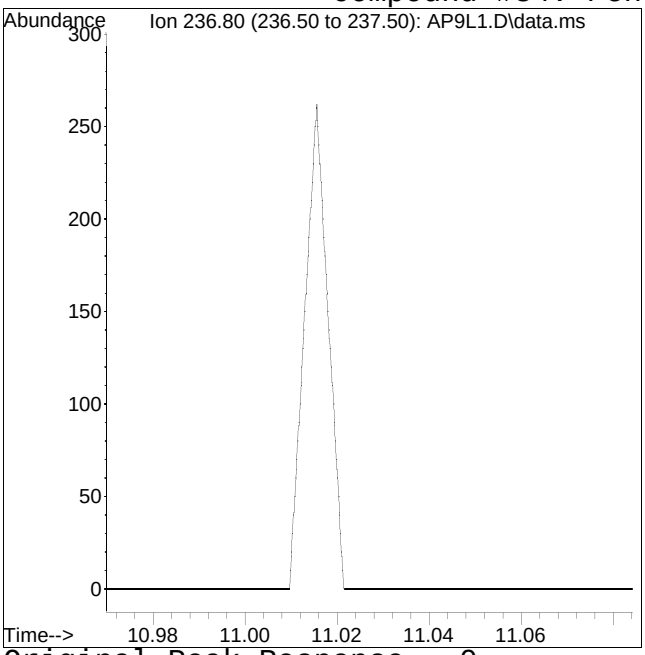
Manual Peak Response = 245 M2

M2 = Peak not found by automatic integration algorithm.

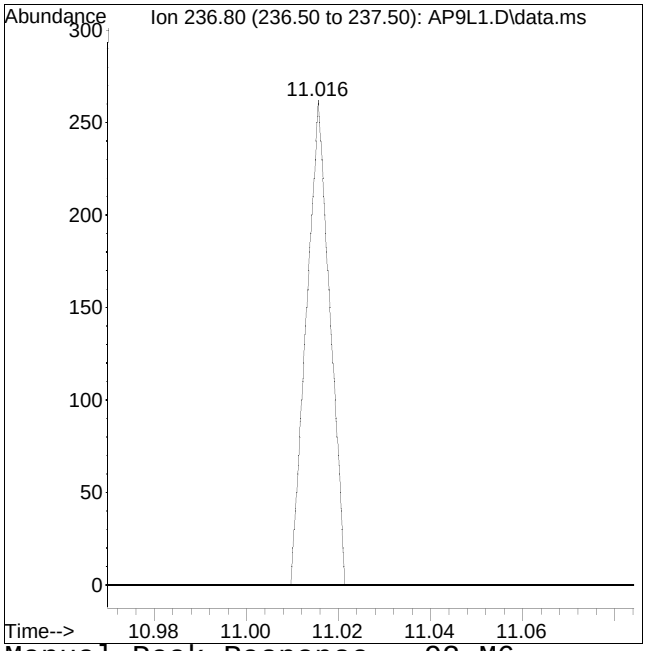
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : AP9L1.D Operator : SV107:jg
Date Inj'd : 6/3/2024 2:49 am Instrument : SV107
Sample : IL10,32,,AP9L0.1 Lot# 1070 Quant Date : 6/3/2024 10:23 am

Compound #84: Pentachloronitrobenzene



Original Peak Response = 0



Manual Peak Response = 92 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	92	0.00
2	t	n-Nitrosodimethylamine		0.704	0.768	-9.1	103	0.00
3	t	Pyridine		1.199	1.251	-4.3	100	-0.02
4	S	2-Fluorophenol		1.069	1.146	-7.2	102	0.00
5	T	Aniline		1.713	1.863	-8.8	106	0.00
6	t	2-Chlorophenol		1.178	1.257	-6.7	103	0.00
7	S	Phenol-d6		1.322	1.436	-8.6	105	0.00
8	T	Phenol		1.438	1.539	-7.0	105	0.00
9	T	Bis(2-chloroethyl)ether		1.185	1.257	-6.1	106	0.00
10	T	1,3-Dichlorobenzene		1.452	1.551	-6.8	105	0.00
11	T	1,4-Dichlorobenzene		1.478	1.555	-5.2	104	0.00
12	T	1,2-Dichlorobenzene		1.426	1.507	-5.7	104	0.00
13	t	Benzyl alcohol		1.000	1.070	-7.0	104	0.00
14	T	Bis(2-chloroisopropyl)ether		1.623	1.732	-6.7	107	0.00
15	T	2-Methylphenol		1.031	1.108	-7.5	103	0.00
16	T	Hexachloroethane		0.545	0.582	-6.8	104	0.00
17	T	n-Nitrosodi-n-propylamine		0.879	0.938	-6.7	104	0.00
18	T	3-Methylphenol/4-Methylphen		1.084	1.189	-9.7	102	0.00
19	S	Nitrobenzene-d5		1.165	1.236	-6.1	99	0.00
20	T	Nitrobenzene		1.197	1.260	-5.3	98	0.00
21	T	Isophorone		2.310	2.527	-9.4	104	0.00
22	T	2-Nitrophenol		0.533	0.499	6.4	93	0.00
23	T	2,4-Dimethylphenol		1.088	1.120	-2.9	98	0.00
24	T	Bis(2-chloroethoxy)methane		1.508	1.642	-8.9	108	0.00
25	T	2,4-Dichlorophenol		1.094	1.207	-10.3	102	0.00
26	T	1,2,4-Trichlorobenzene		1.318	1.411	-7.1	107	0.00
34	I	IS1_Naphthalene-d8		1.000	1.000	0.0	95	0.00
35	T	Naphthalene		0.996	1.041	-4.5	107	0.00
36	T	Benzoic Acid	*	5.000	4.821	3.6	96	0.00
37	T	4-Chloroaniline		0.126	0.136	-7.9	107	0.00
38	T	Hexachlorobutadiene		0.211	0.230	-9.0	111	0.00
39	T	p-Chloro-m-cresol		0.272	0.297	-9.2	102	0.00
40	T	2-Methylnaphthalene		0.688	0.740	-7.6	107	0.00
41	T	1-Methylnaphthalene		0.235	0.251	-6.8	108	0.00
42	T	Hexachlorocyclopentadiene		0.205	0.225	-9.8	108	0.00
43	T	2,4,6-Trichlorophenol		0.237	0.260	-9.7	101	0.00
44	T	2,4,5-Trichlorophenol		0.251	0.278	-10.8	103	0.00
45	S	2-Fluorobiphenyl		0.866	0.928	-7.2	107	0.00

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene		0.715	0.756	-5.7	106	0.00
47	T	2-Nitroaniline		0.173	0.173	0.0	94	0.00
48	T	1,4-Dinitrobenzene		0.087	0.076	12.6	95	0.00
49	T	1,3-Dinitrobenzene		0.109	0.097	11.0	93	0.00
50	T	Dimethyl phthalate		0.839	0.901	-7.4	105	0.00
51	T	Acenaphthylene		1.079	1.189	-10.2	107	0.00
52	T	2,6-Dinitrotoluene		0.153	0.166	-8.5	98	0.00
53	T	1,2-Dinitrobenzene		0.068	0.070	-2.9	95	0.00
62	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	89	0.00
63	T	3-Nitroaniline		0.259	0.287	-10.8	100	0.00
64	T	Acenaphthene		1.081	1.163	-7.6	107	0.00
65	T	2,4-Dinitrophenol	*	5.000	4.210	15.8	88	0.00
66	T	Dibenzofuran		1.757	1.922	-9.4	107	0.00
67	T	2,4-Dinitrotoluene	*	5.000	4.699	6.0	99	0.00
68	T	4-Nitrophenol		0.221	0.232	-5.0	100	0.00
69	T	2,3,5,6-Tetrachlorophenol		0.318	0.377	-18.6	105	0.00
70	T	2,3,4,6-Tetrachlorophenol		0.314	0.386	-22.9#	107	0.00
71	T	Diethyl phthalate		1.301	1.431	-10.0	107	0.00
72	T	Fluorene		1.328	1.453	-9.4	105	0.00
73	T	4-Chlorophenyl phenyl ether		0.672	0.742	-10.4	108	0.00
74	T	4-Nitroaniline		0.262	0.292	-11.5	104	0.00
75	T	4,6-Dinitro-o-cresol	*	5.000	4.232	15.4	98	0.00
76	T	NDPA/DPA		1.131	1.265	-11.8	107	0.00
77	T	Azobenzene		1.259	1.441	-14.5	108	0.00
78	S	2,4,6-Tribromophenol		0.171	0.200	-17.0	102	0.00
79	T	4-Bromophenyl phenyl ether		0.376	0.409	-8.8	106	0.00
80	T	Hexachlorobenzene		0.431	0.465	-7.9	107	0.00
81	T	Pentachlorophenol		0.252	0.269	-6.7	102	0.00
87	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	90	0.00
88	T	Phenanthrene		1.038	1.096	-5.6	105	0.00
89	T	Anthracene		1.030	1.137	-10.4	109	0.00
90	T	Carbazole		0.928	1.011	-8.9	104	0.00
91	T	Di-n-butylphthalate		1.088	1.207	-10.9	104	0.00
92	T	Fluoranthene		1.186	1.307	-10.2	108	0.00
93	T	Benzidine		0.721	0.754	-4.6	101	0.00
94	T	Pyrene		1.269	1.394	-9.9	108	0.00
95	S	4-Terphenyl-d14		0.875	0.956	-9.3	108	0.00

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	*	5.000	4.557	8.9	100	0.00
103	I	IS1_Chrysene-d12		1.000	1.000	0.0	86	0.00
104	T	Benzo(a)anthracene		1.335	1.459	-9.3	103	0.00
105	T	3,3'-Dichlorobenzidine		0.430	0.500	-16.3	100	0.00
106	T	Chrysene		1.276	1.383	-8.4	102	0.00
107	T	Bis(2-ethylhexyl)phthalate	*	5.000	5.140	-2.8	103	0.00
108	T	Di-n-octylphthalate	*	5.000	4.740	5.2	99	0.00
109	T	Benzo(b)fluoranthene		1.178	1.306	-10.9	101	0.00
110	T	Benzo(k)fluoranthene		1.154	1.298	-12.5	101	0.00
111	T	Benzo(a)pyrene		1.025	1.213	-18.3	106	-0.01
112	I	IS1_Perylene-d12		1.000	1.000	0.0	84	0.00
113	T	Indeno(1,2,3-cd)pyrene		0.952	1.196	-25.6#	113	-0.01
114	T	Dibenzo(a,h)anthracene		0.953	1.178	-23.6#	103	-0.01
115	T	Benzo(ghi)perylene		0.928	1.074	-15.7	103	-0.01

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	48133	4.000	ug/ml	0.00
Standard Area 1 = 52051			Recovery = 92.47%			
34) IS1_Naphthalene-d8	7.957	136	179971	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 94.55%			
62) IS1_Acenaphthene-d10	9.727	164	110910	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 89.47%			
87) IS1_Phenanthrene-d10	11.169	188	227716	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 90.27%			
103) IS1_Chrysene-d12	13.833	240	201209	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 86.01%			
112) IS1_Perylene-d12	15.315	264	202785	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 84.12%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.687	112	68980	5.362	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 268.10%#			
7) Phenol-d6	6.157	99	86386	5.431	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 271.55%#			
19) Nitrobenzene-d5	7.181	82	74359	5.306	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 530.60%#			
45) 2-Fluorobiphenyl	9.080	172	208717	5.356	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 535.60%#			
78) 2,4,6-Tribromophenol	10.498	330	27761	5.871	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 293.55%#			
95) 4-Terphenyl-d14	12.763	244	272131	5.463	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 546.30%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.263	74	46190	5.454	ug/ml#	68
3) Pyridine	2.293	79	75290	5.217	ug/ml#	59
5) Aniline	6.128	93	112111	5.439	ug/ml	97
6) 2-Chlorophenol	6.269	128	75656	5.336	ug/ml	94
8) Phenol	6.175	94	92596	5.351	ug/ml	98
9) Bis(2-chloroethyl)ether	6.251	93	75604	5.301	ug/ml#	85
10) 1,3-Dichlorobenzene	6.457	146	93317	5.342	ug/ml	98
11) 1,4-Dichlorobenzene	6.551	146	93546	5.261	ug/ml	98
12) 1,2-Dichlorobenzene	6.728	146	90658	5.284	ug/ml	97

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	64368	5.347	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	104198	5.335	ug/ml#	46
15) 2-Methylphenol	6.904	108	66691	5.377	ug/ml	99
16) Hexachloroethane	7.122	117	34991	5.336	ug/ml#	61
17) n-Nitrosodi-n-propylamine	7.057	70	56436	5.334	ug/ml	93
18) 3-Methylphenol/4-Methy...	7.086	108	71562	5.484	ug/ml	98
20) Nitrobenzene	7.204	77	75830	5.265	ug/ml	98
21) Isophorone	7.481	82	152062	5.470	ug/ml	97
22) 2-Nitrophenol	7.563	139	30029	4.680	ug/ml#	92
23) 2,4-Dimethylphenol	7.657	107	67410	5.150	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.751	93	98786	5.446	ug/ml	99
25) 2,4-Dichlorophenol	7.828	162	72592	5.515	ug/ml	94
26) 1,2,4-Trichlorobenzene	7.910	180	84896	5.351	ug/ml	97
35) Naphthalene	7.975	128	234099	5.225	ug/ml	99
36) Benzoic Acid	7.751	105	37692	4.821	ug/ml	97
37) 4-Chloroaniline	8.057	65	30505	5.397	ug/ml	91
38) Hexachlorobutadiene	8.145	225	51724	5.458	ug/ml	98
39) p-Chloro-m-cresol	8.580	107	66777	5.450	ug/ml	98
40) 2-Methylnaphthalene	8.698	142	166439	5.374	ug/ml	94
41) 1-Methylnaphthalene	8.792	115	56538	5.353	ug/ml	97
42) Hexachlorocyclopentadiene	8.875	237	50620	5.482	ug/ml	99
43) 2,4,6-Trichlorophenol	8.992	196	58438	5.485	ug/ml	99
44) 2,4,5-Trichlorophenol	9.022	196	62619	5.542	ug/ml	98
46) 2-Chloronaphthalene	9.175	162	170033	5.283	ug/ml	96
47) 2-Nitroaniline	9.292	138	39012	5.011	ug/ml	92
48) 1,4-Dinitrobenzene	9.422	168	17114	4.373	ug/ml	82
49) 1,3-Dinitrobenzene	9.498	168	21913	4.480	ug/ml#	1
50) Dimethyl phthalate	9.492	163	202629	5.370	ug/ml#	99
51) Acenaphthylene	9.580	152	267479	5.507	ug/ml	98
52) 2,6-Dinitrotoluene	9.539	165	37241	5.426	ug/ml#	84
53) 1,2-Dinitrobenzene	9.580	168	15743	5.134	ug/ml#	1
63) 3-Nitroaniline	9.692	138	39753	5.525	ug/ml	98
64) Acenaphthene	9.757	154	161236	5.379	ug/ml	92
65) 2,4-Dinitrophenol	9.798	184	15506	4.210	ug/ml	90
66) Dibenzofuran	9.927	168	266500	5.472	ug/ml	93
67) 2,4-Dinitrotoluene	9.927	165	50041	4.699	ug/ml	94
68) 4-Nitrophenol	9.880	65	32159	5.239	ug/ml#	90
69) 2,3,5,6-Tetrachlorophenol	10.022	232	52335	5.940	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	53523	6.152	ug/ml	99
71)	Diethyl phthalate	10.192	149	198362	5.497	ug/ml	97
72)	Fluorene	10.263	166	201378	5.468	ug/ml	94
73)	4-Chlorophenyl phenyl ...	10.280	204	102835	5.519	ug/ml	89
74)	4-Nitroaniline	10.286	138	40513	5.566	ug/ml#	85
75)	4,6-Dinitro-o-cresol	10.322	198	23532	4.232	ug/ml#	63
76)	NDPA/DPA	10.398	169	175362	5.590	ug/ml	94
77)	Azobenzene	10.433	77	199756	5.722	ug/ml	96
79)	4-Bromophenyl phenyl e...	10.757	248	56638	5.427	ug/ml#	87
80)	Hexachlorobenzene	10.810	284	64431	5.392	ug/ml#	88
81)	Pentachlorophenol	10.998	266	37359	5.357	ug/ml	100
88)	Phenanthrene	11.192	178	311941	5.278	ug/ml	99
89)	Anthracene	11.245	178	323617	5.520	ug/ml	98
90)	Carbazole	11.410	167	287846	5.448	ug/ml	98
91)	Di-n-butylphthalate	11.798	149	343566	5.546	ug/ml	99
92)	Fluoranthene	12.357	202	371982	5.510	ug/ml#	92
93)	Benzidine	12.504	184	214564	5.230	ug/ml#	94
94)	Pyrene	12.574	202	396732	5.493	ug/ml	99
96)	Butyl benzyl phthalate	13.292	149	132785	4.557	ug/ml	94
104)	Benzo(a)anthracene	13.821	228	366917	5.465	ug/ml	98
105)	3,3'-Dichlorobenzidine	13.821	252	125706	5.814	ug/ml#	97
106)	Chrysene	13.862	228	347792	5.420	ug/ml	97
107)	Bis(2-ethylhexyl)phtha...	13.939	149	222853	5.140	ug/ml#	95
108)	Di-n-octylphthalate	14.621	149	332901	4.740	ug/ml#	74
109)	Benzo(b)fluoranthene	14.945	252	328567	5.545	ug/ml#	94
110)	Benzo(k)fluoranthene	14.968	252	326553	5.626	ug/ml#	93
111)	Benzo(a)pyrene	15.257	252	305124	5.916	ug/ml#	94
113)	Indeno(1,2,3-cd)pyrene	16.333	276	303147M6	6.281	ug/mL	
114)	Dibenzo(a,h)anthracene	16.356	278	298480	6.178	ug/ml#	89
115)	Benzo(ghi)perylene	16.603	276	272174	5.787	ug/ml#	89

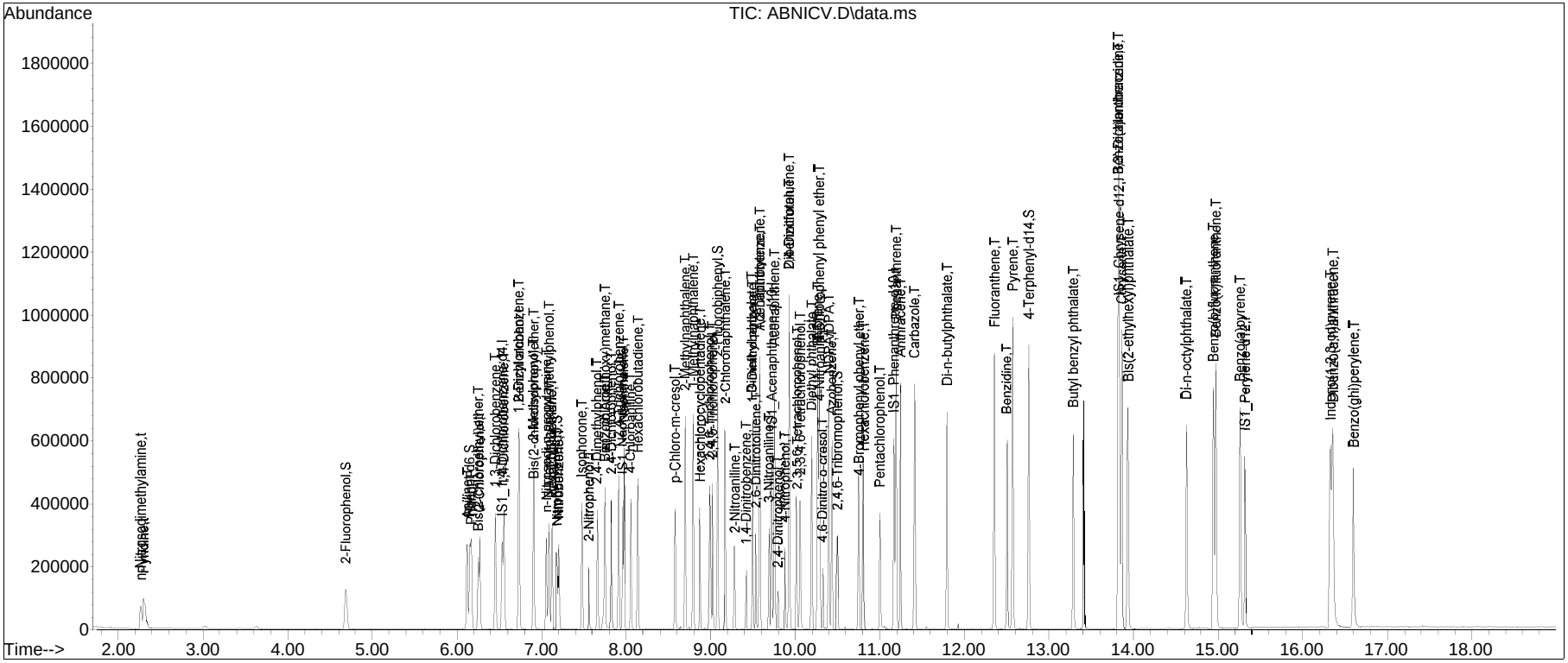
(#) = qualifier out of range (m) = manual integration (+) = signals summed

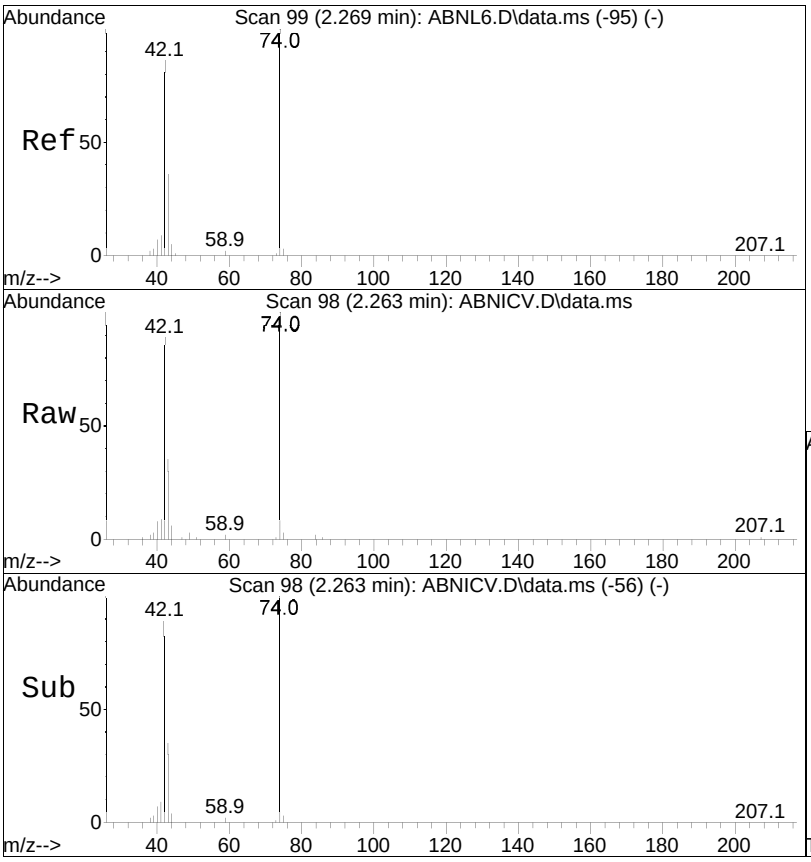
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\AP9L6.D•

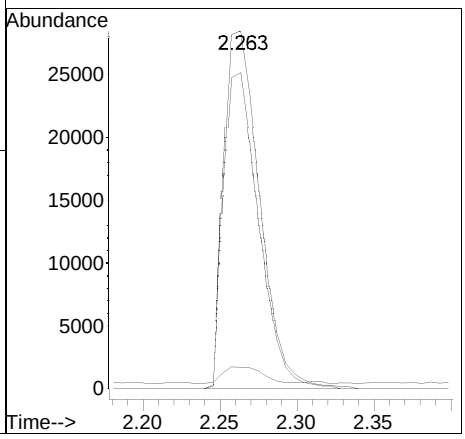


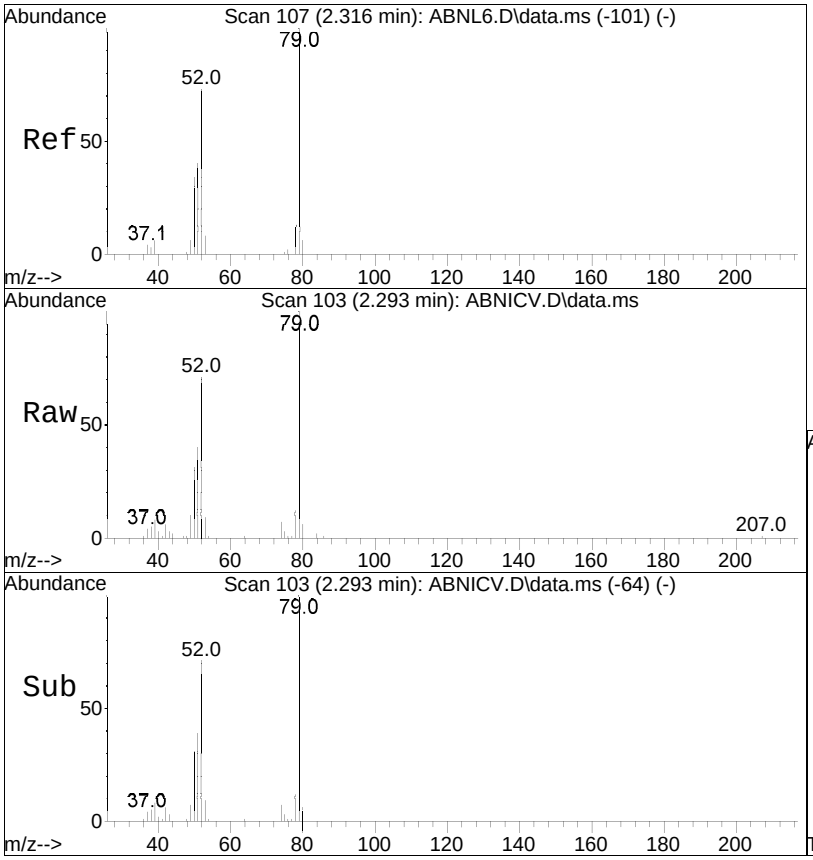


#2
n-Nitrosodimethylamine
Concen: 5.45 ug/ml
RT: 2.263 min Scan# 98
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 74 Resp: 46190

Ion	Ratio	Lower	Upper
74	100		
42	86.9	100.0	150.0#
44	5.2	6.7	10.1#

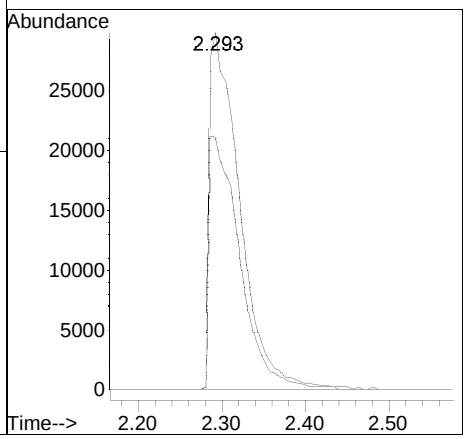


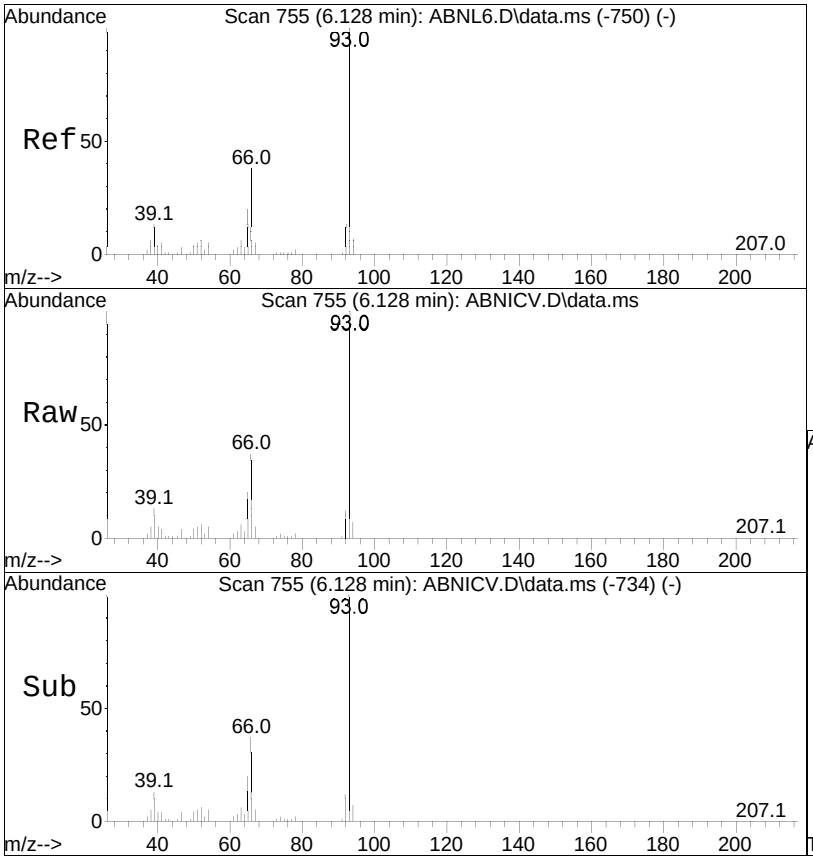


#3
Pyridine
Concen: 5.22 ug/ml
RT: 2.293 min Scan# 103
Delta R.T. -0.023 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 79 Resp: 75290

Ion	Ratio	Lower	Upper
79	100		
52	72.0	93.1	139.7#

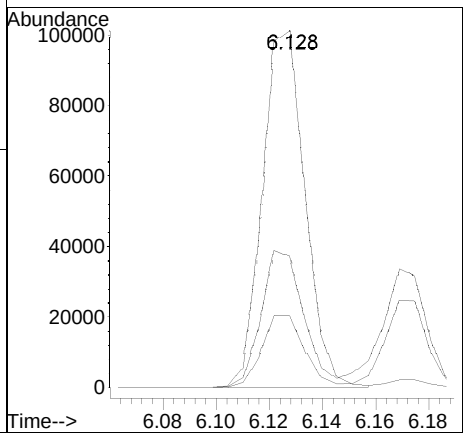


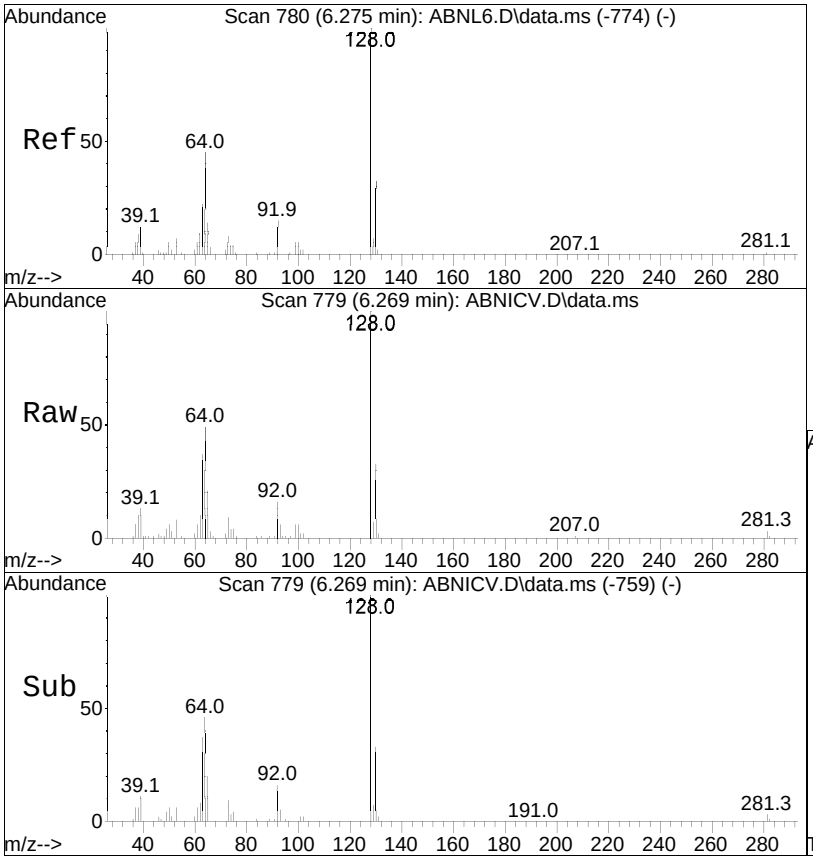


#5
Aniline
Concen: 5.44 ug/ml
RT: 6.128 min Scan# 755
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 93 Resp: 112111

Ion	Ratio	Lower	Upper
93	100		
66	38.7	32.6	49.0
65	20.3	17.6	26.4

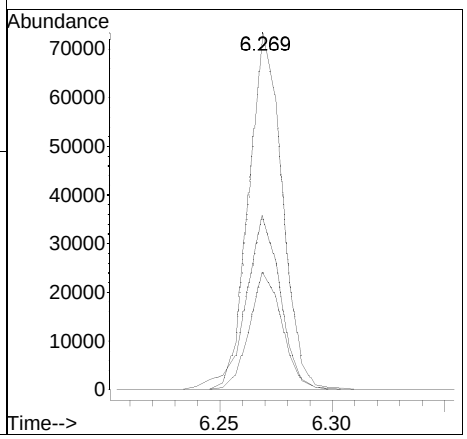


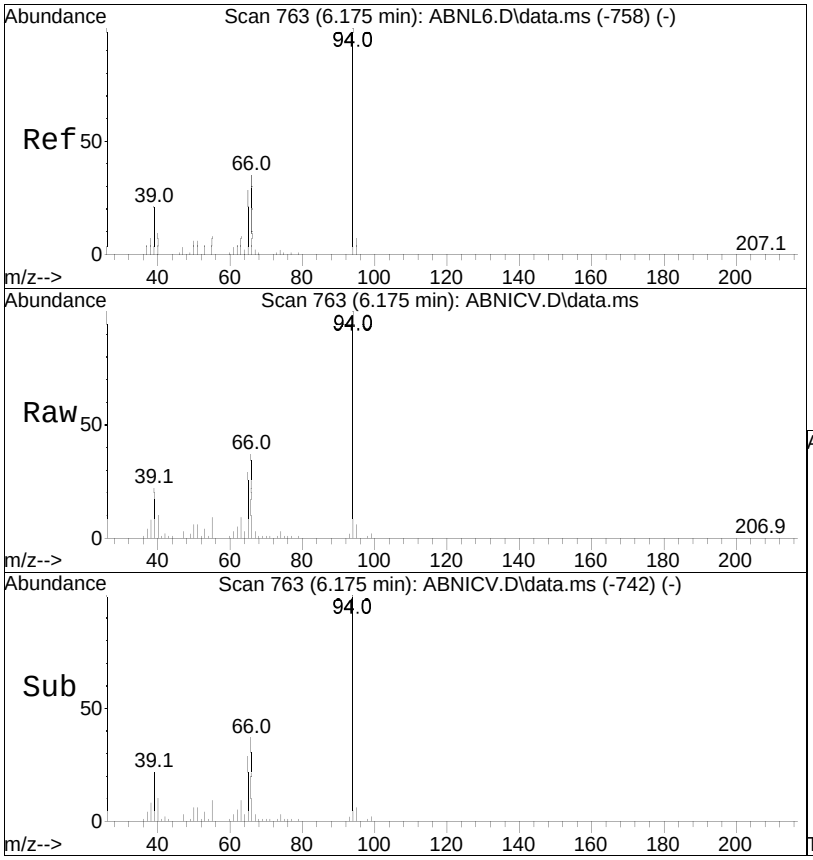


#6
2-Chlorophenol
Concen: 5.34 ug/ml
RT: 6.269 min Scan# 779
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:128 Resp: 75656

Ion	Ratio	Lower	Upper
128	100		
64	50.4	45.1	67.7
130	32.3	26.2	39.4

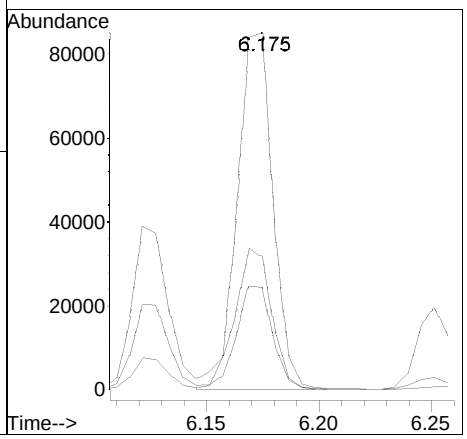


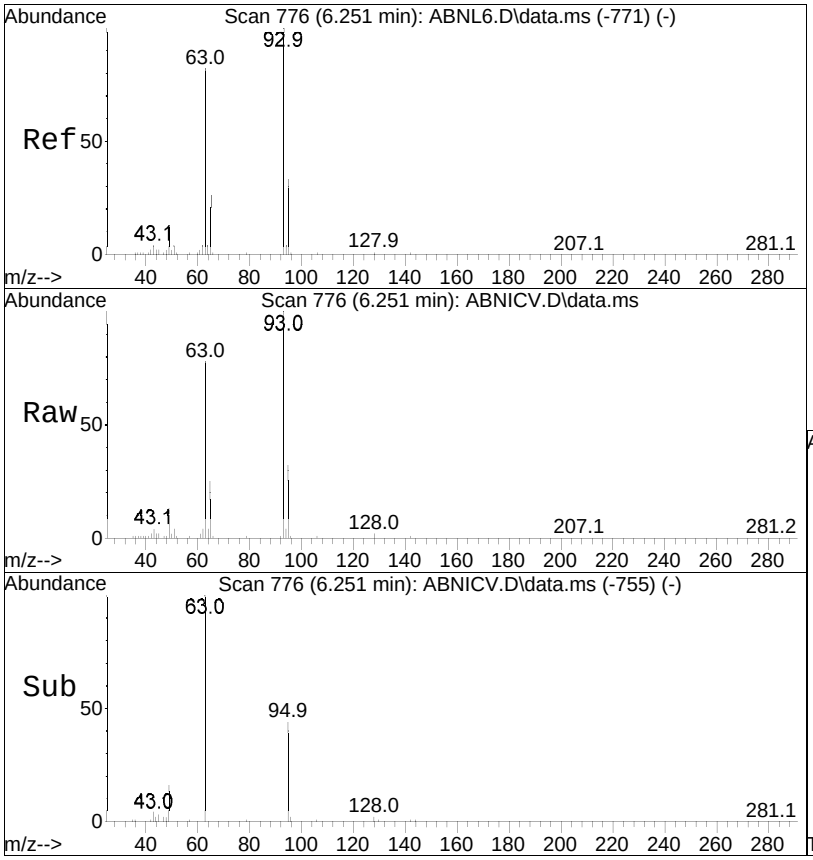


#8
Phenol
Concen: 5.35 ug/ml
RT: 6.175 min Scan# 763
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 94 Resp: 92596

Ion	Ratio	Lower	Upper
94	100		
65	30.0	26.0	39.0
66	42.7	33.8	50.8

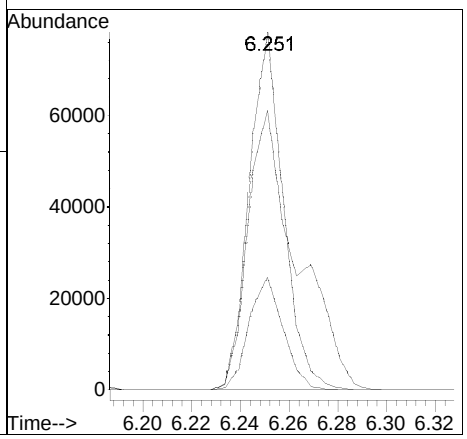


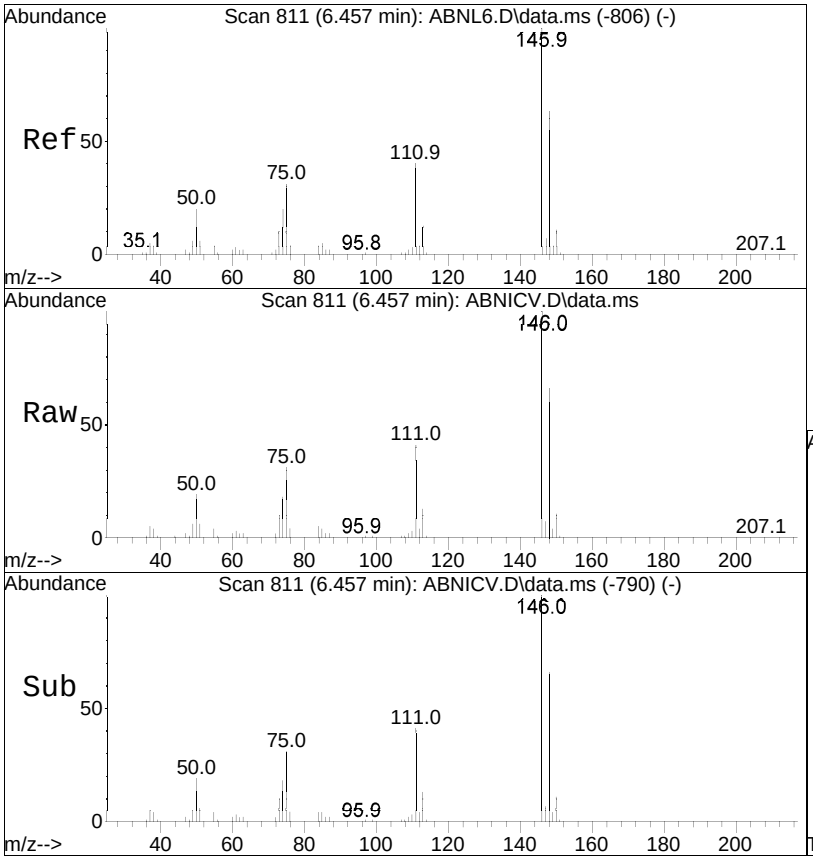


#9
Bis(2-chloroethyl)ether
Concen: 5.30 ug/ml
RT: 6.251 min Scan# 776
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 93 Resp: 75604

Ion	Ratio	Lower	Upper
93	100		
63	112.3	74.6	111.8#
95	31.8	25.9	38.9

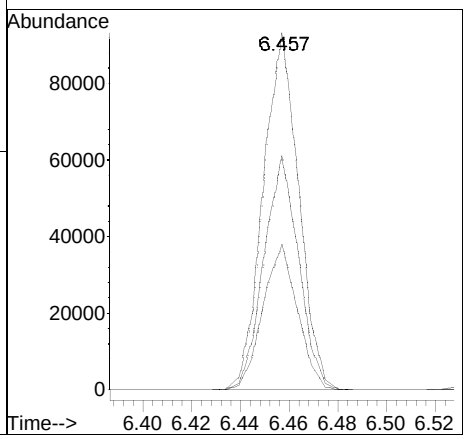


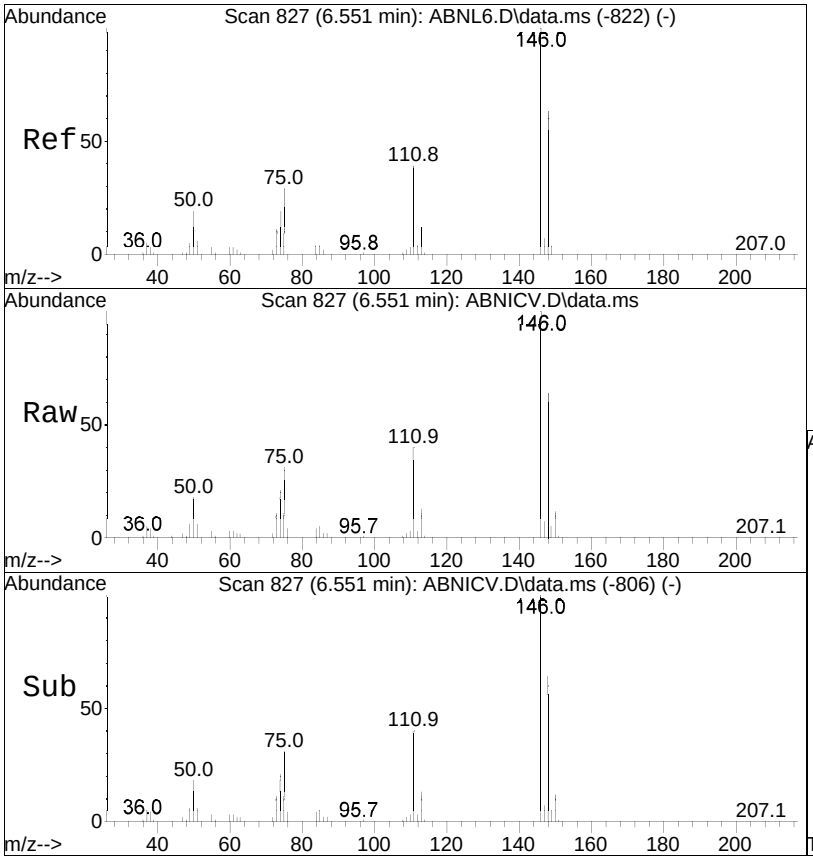


#10
1,3-Dichlorobenzene
Concen: 5.34 ug/ml
RT: 6.457 min Scan# 811
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:146 Resp: 93317

Ion	Ratio	Lower	Upper
146	100		
111	39.9	34.3	51.5
148	64.2	50.8	76.2

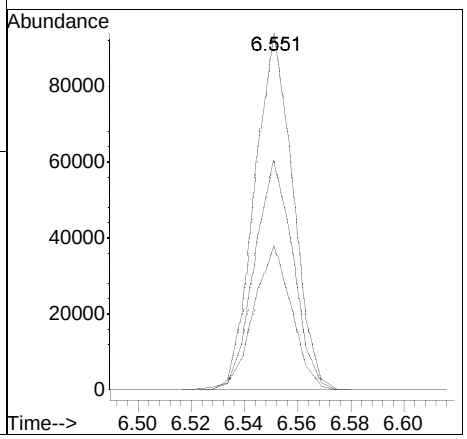


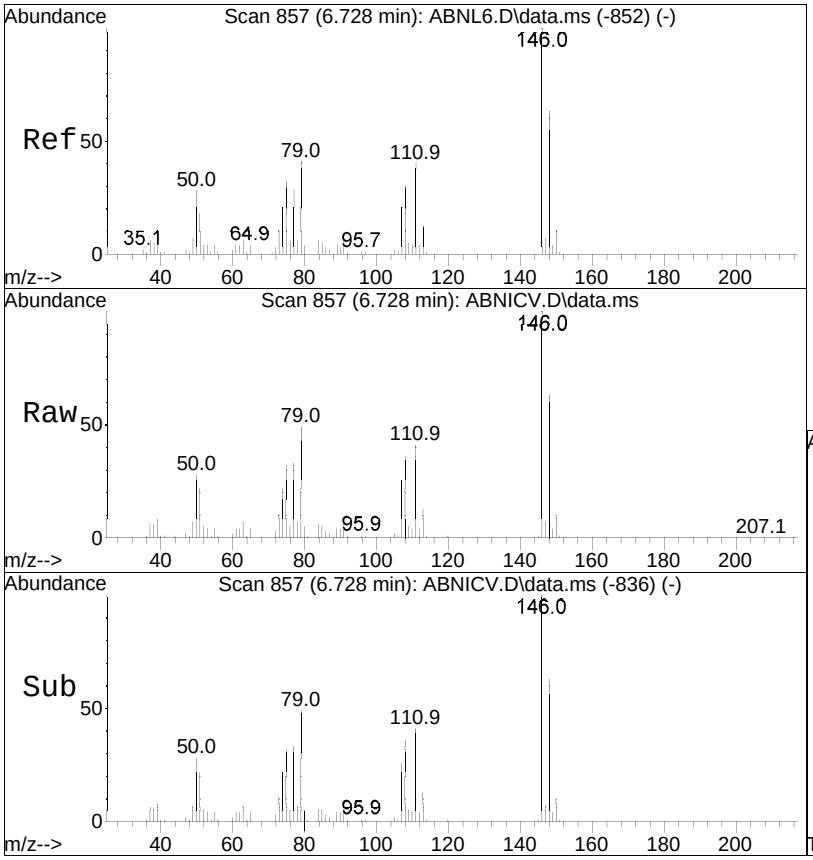


#11
1,4-Dichlorobenzene
Concen: 5.26 ug/ml
RT: 6.551 min Scan# 827
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:146 Resp: 93546

Ion	Ratio	Lower	Upper
146	100		
148	64.5	50.7	76.1
111	40.3	33.4	50.0

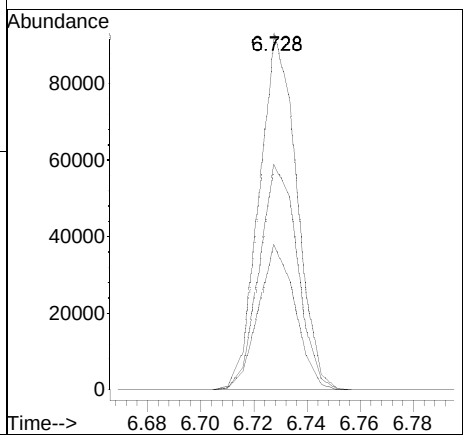


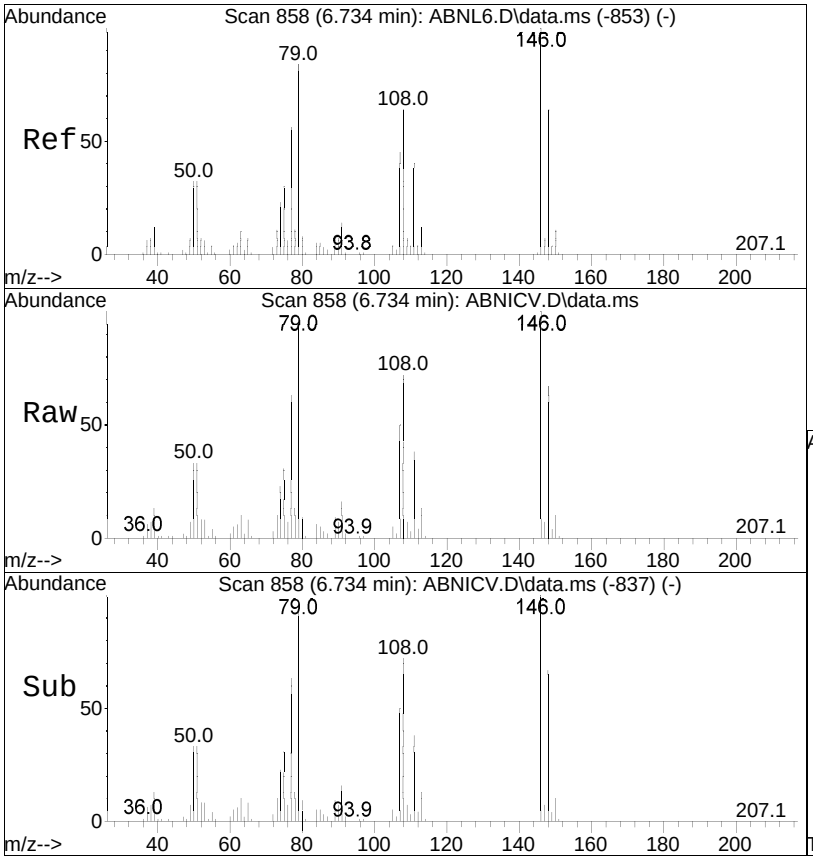


#12
1,2-Dichlorobenzene
Concen: 5.28 ug/ml
RT: 6.728 min Scan# 857
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:146 Resp: 90658

Ion	Ratio	Lower	Upper
146	100		
111	40.3	34.6	52.0
148	64.3	50.2	75.4

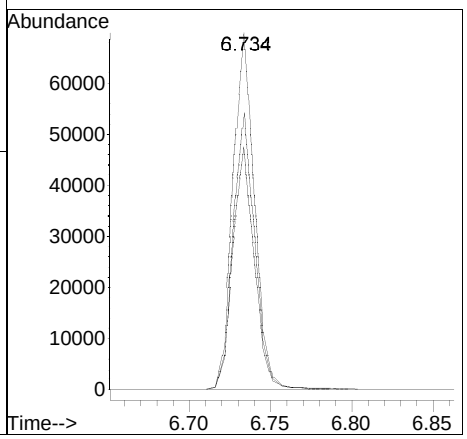


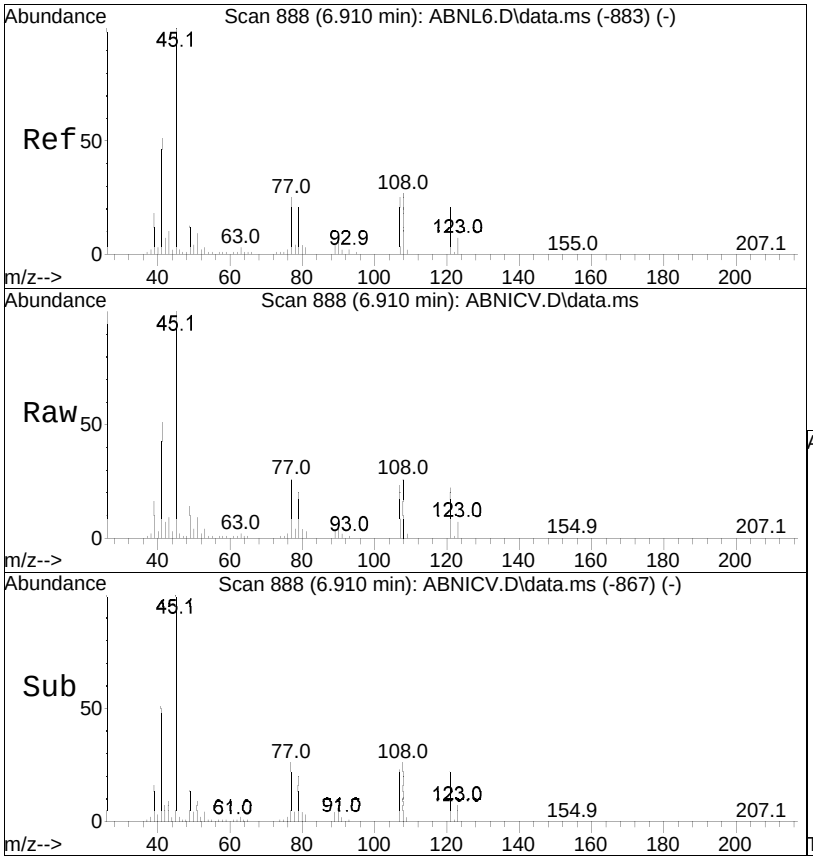


#13
Benzyl alcohol
Concen: 5.35 ug/ml
RT: 6.734 min Scan# 858
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 79 Resp: 64368

Ion	Ratio	Lower	Upper
79	100		
77	68.0	54.9	82.3
108	77.1	63.1	94.7

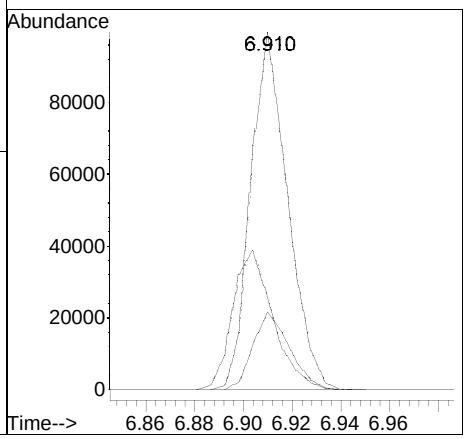


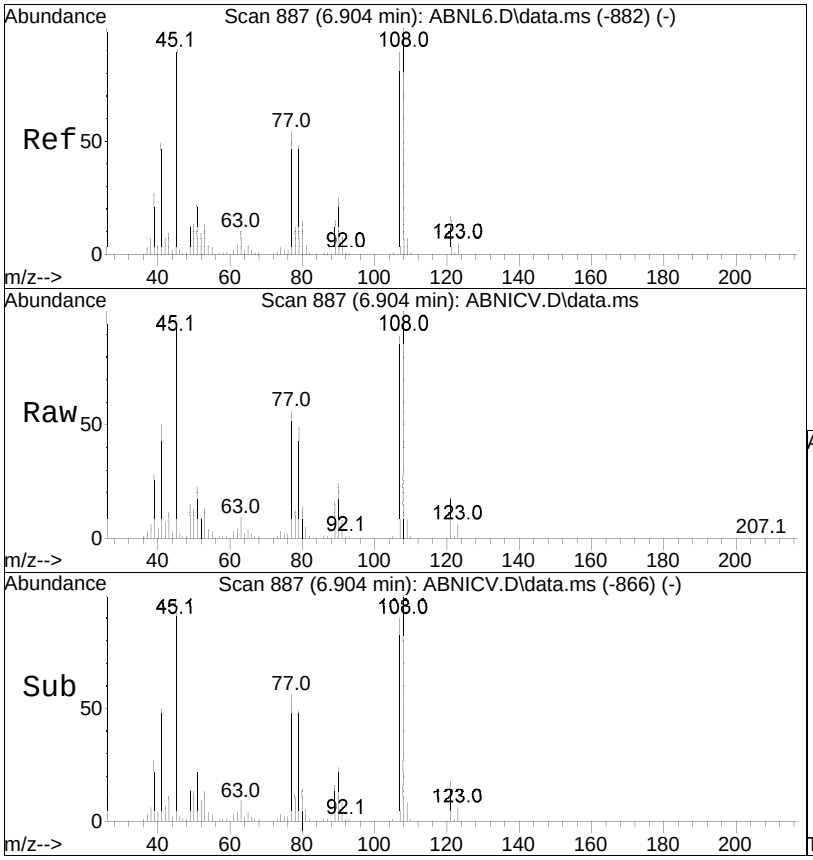


#14
Bis(2-chloroisopropyl)ether
Concen: 5.34 ug/ml
RT: 6.910 min Scan# 888
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 45 Resp: 104198

Ion	Ratio	Lower	Upper
45	100		
121	21.6	9.8	14.6#
77	43.0	6.1	9.1#

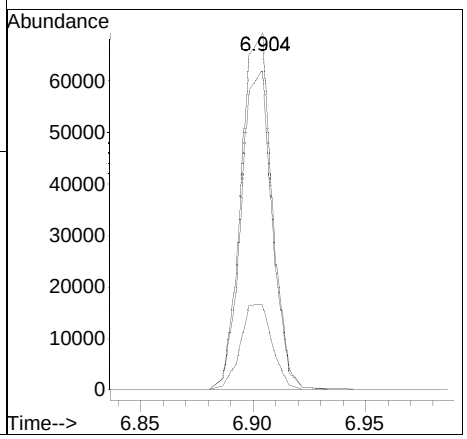


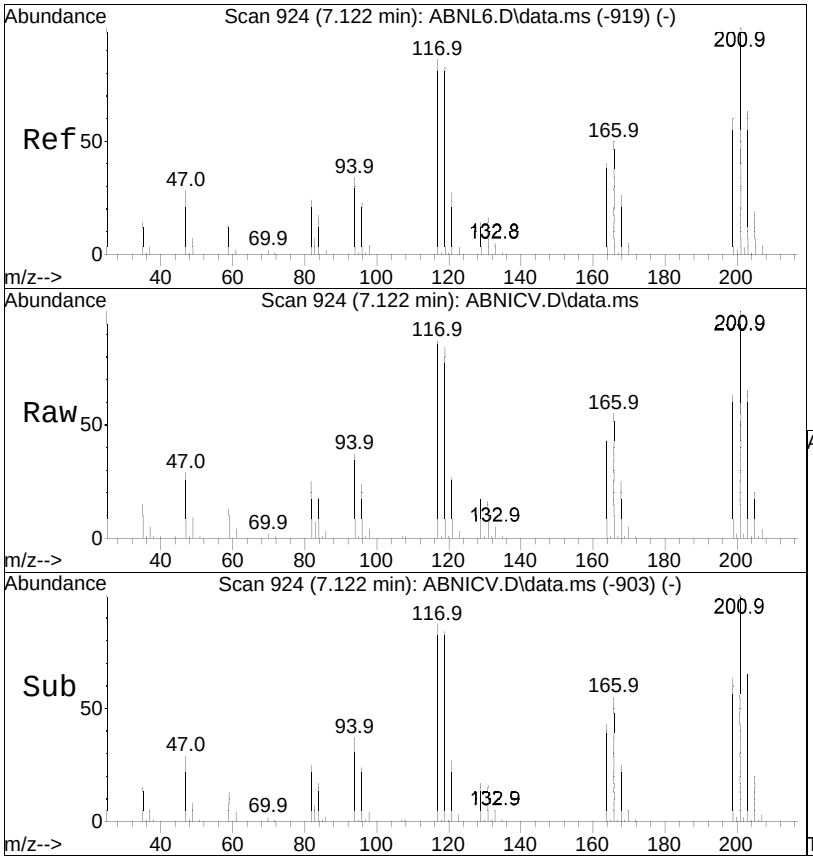


#15
2-Methylphenol
Concen: 5.38 ug/ml
RT: 6.904 min Scan# 887
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:108 Resp: 66691

Ion	Ratio	Lower	Upper
108	100		
107	89.0	70.7	106.1
90	24.3	18.7	28.1

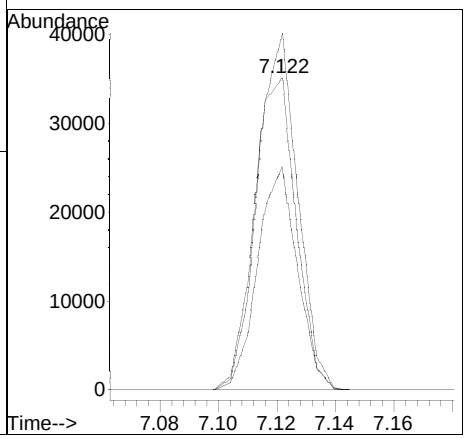


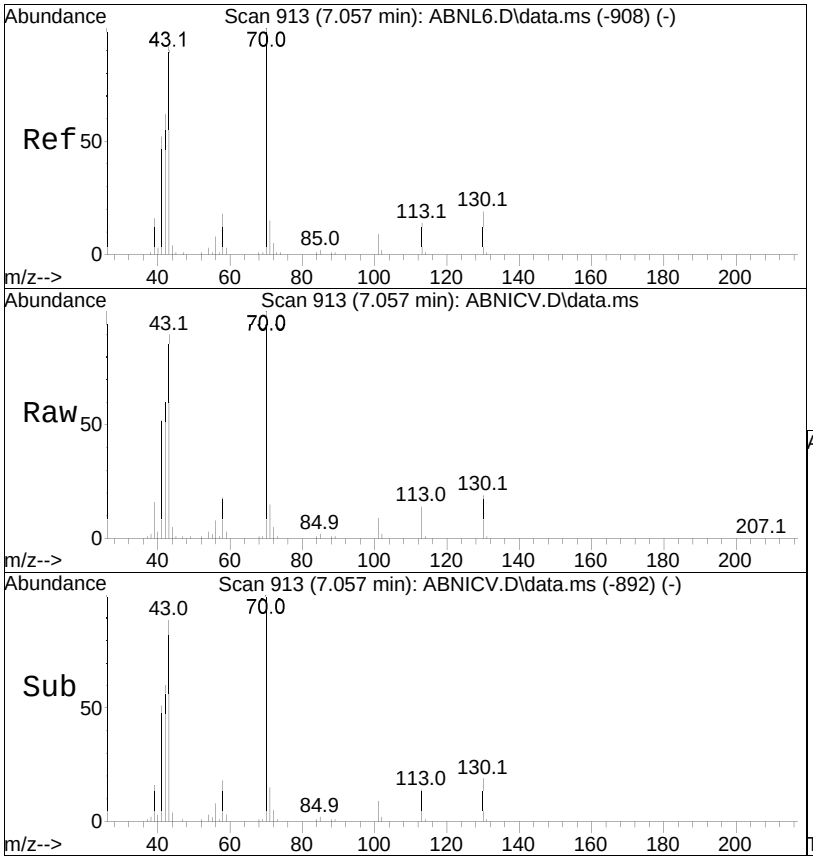


#16
Hexachloroethane
Concen: 5.34 ug/ml
RT: 7.122 min Scan# 924
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:117 Resp: 34991

Ion	Ratio	Lower	Upper
117	100		
201	109.1	58.6	87.8#
199	67.7	36.9	55.3#

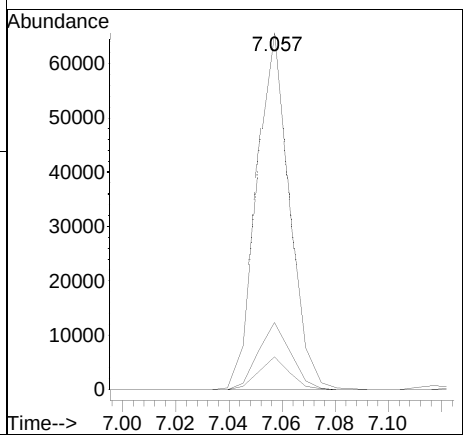


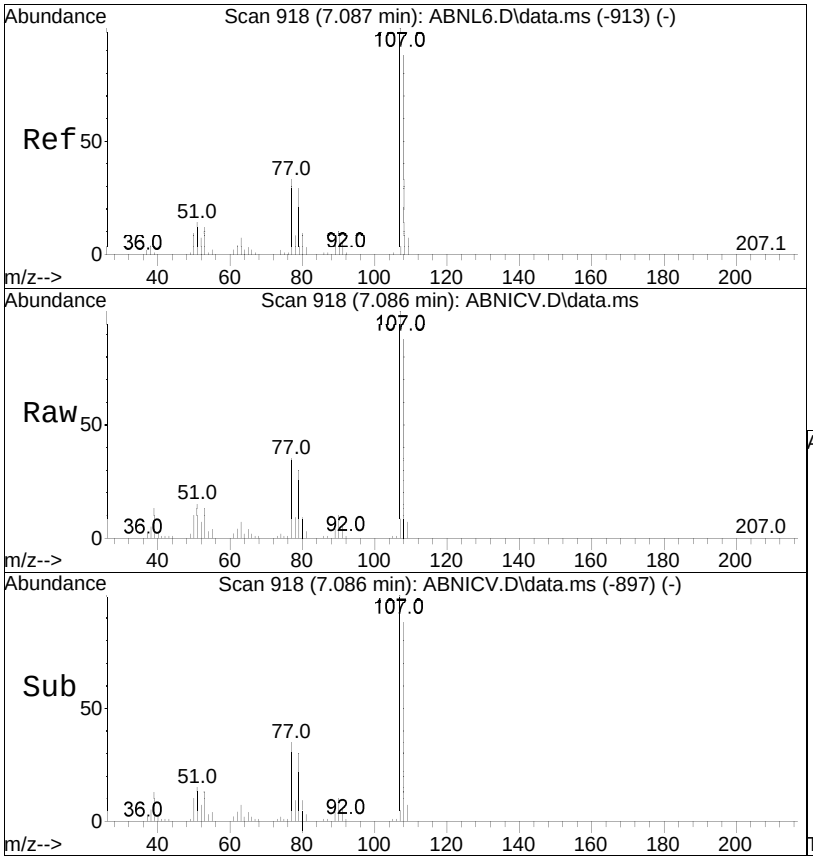


#17
n-Nitrosodi-n-propylamine
Concen: 5.33 ug/ml
RT: 7.057 min Scan# 913
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 70 Resp: 56436

Ion	Ratio	Lower	Upper
70	100		
130	18.5	18.2	27.4
101	8.7	7.8	11.8

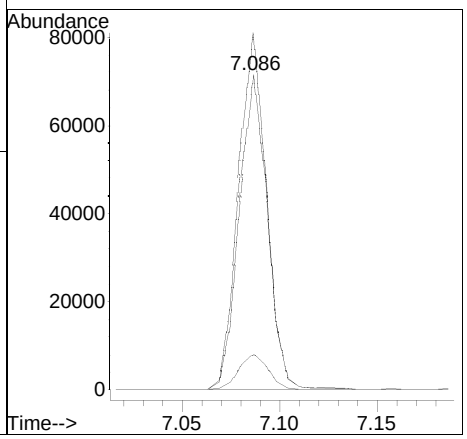


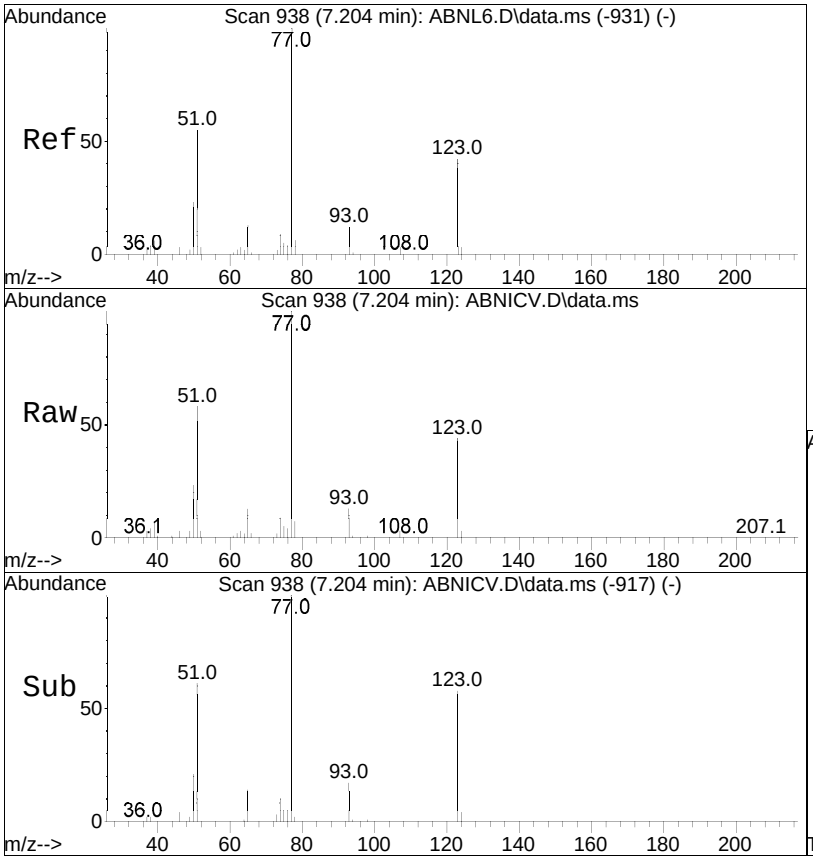


#18
3-Methylphenol/4-Methylphenol
Concen: 5.48 ug/ml
RT: 7.086 min Scan# 918
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:108 Resp: 71562

Ion	Ratio	Lower	Upper
108	100		
107	113.0	88.6	132.8
90	11.6	8.8	13.2

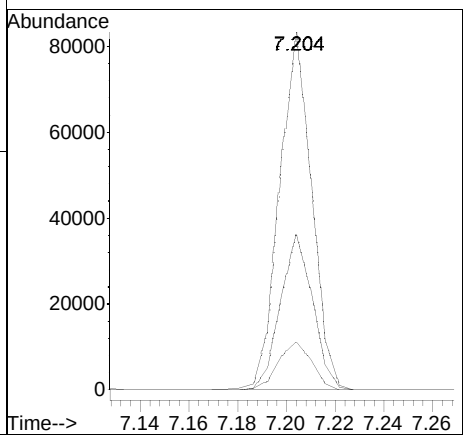


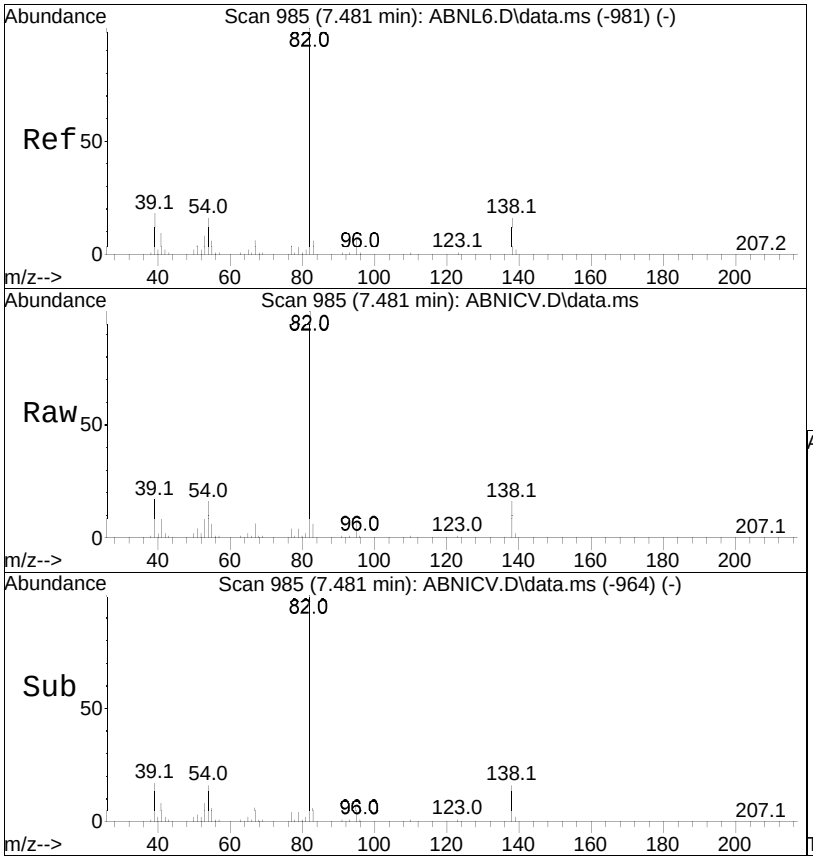


#20
Nitrobenzene
Concen: 5.27 ug/ml
RT: 7.204 min Scan# 938
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 77 Resp: 75830

Ion	Ratio	Lower	Upper
77	100		
123	43.6	36.3	54.5
65	14.1	11.6	17.4

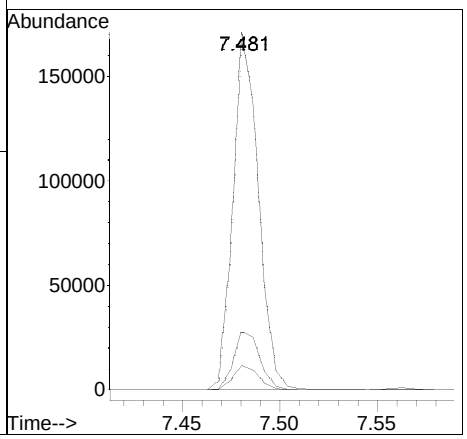


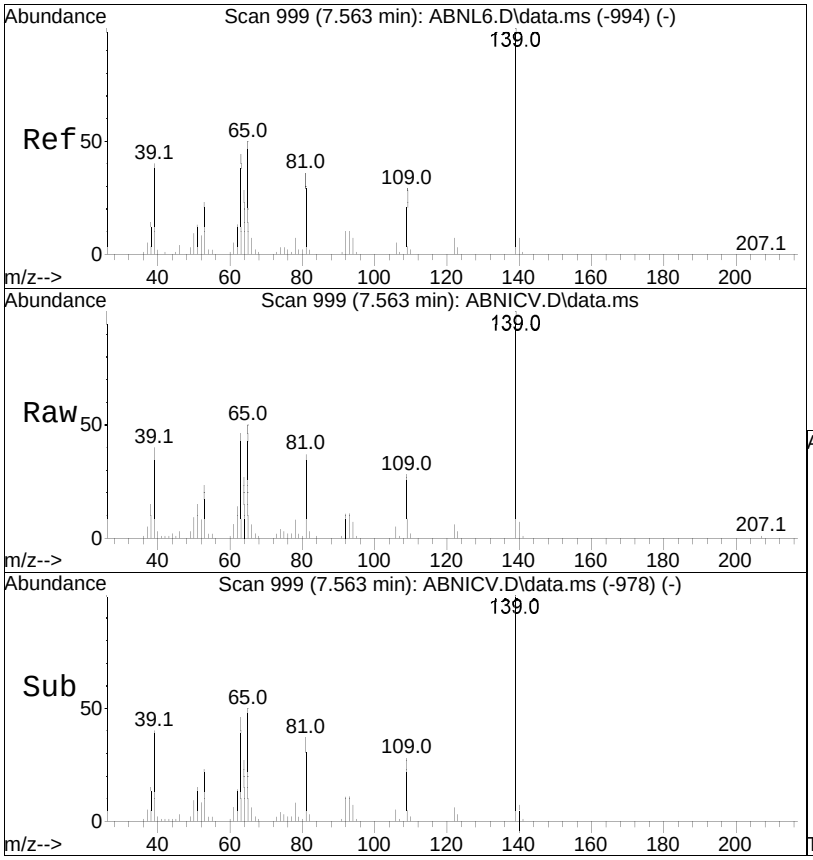


#21
Isophorone
Concen: 5.47 ug/ml
RT: 7.481 min Scan# 985
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 82 Resp: 152062

Ion	Ratio	Lower	Upper
82	100		
138	16.9	14.7	22.1
95	6.9	5.2	7.8

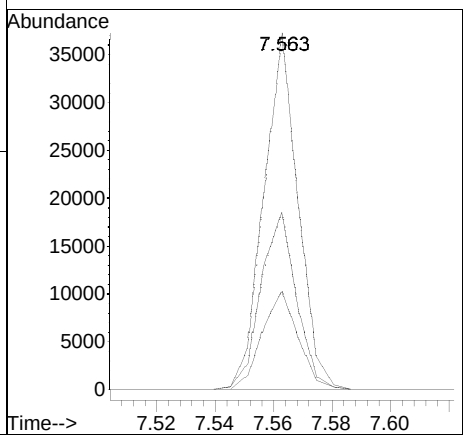


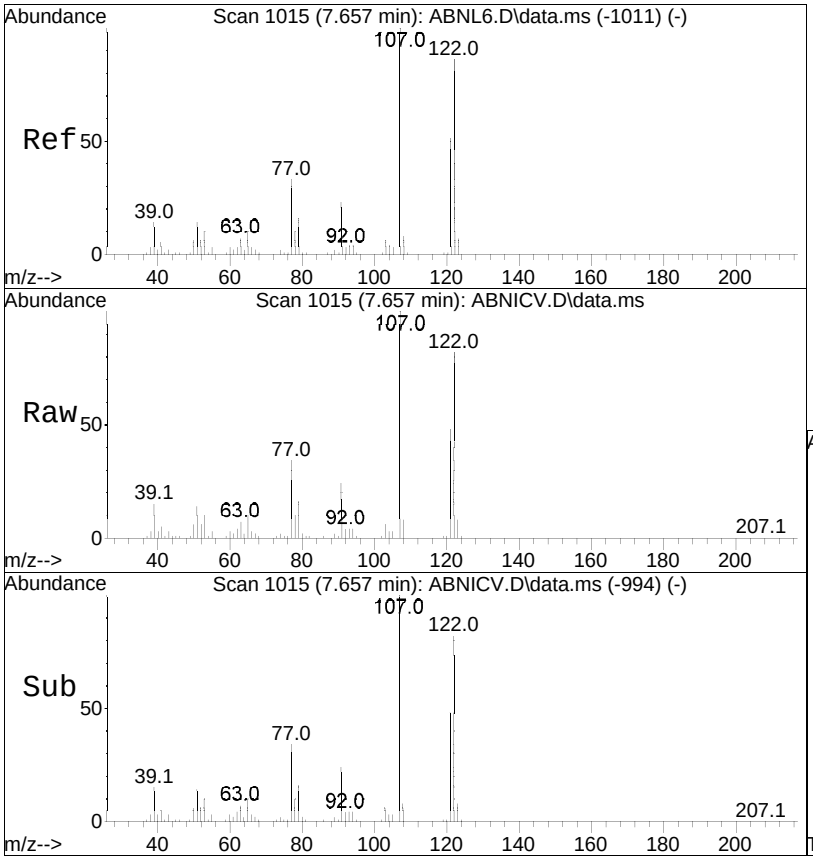


#22
2-Nitrophenol
Concen: 4.68 ug/ml
RT: 7.563 min Scan# 999
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:139 Resp: 30029

Ion	Ratio	Lower	Upper
139	100		
109	29.3	19.4	29.0#
65	51.9	46.1	69.1

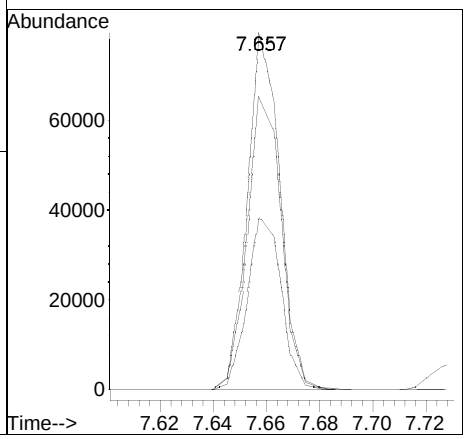


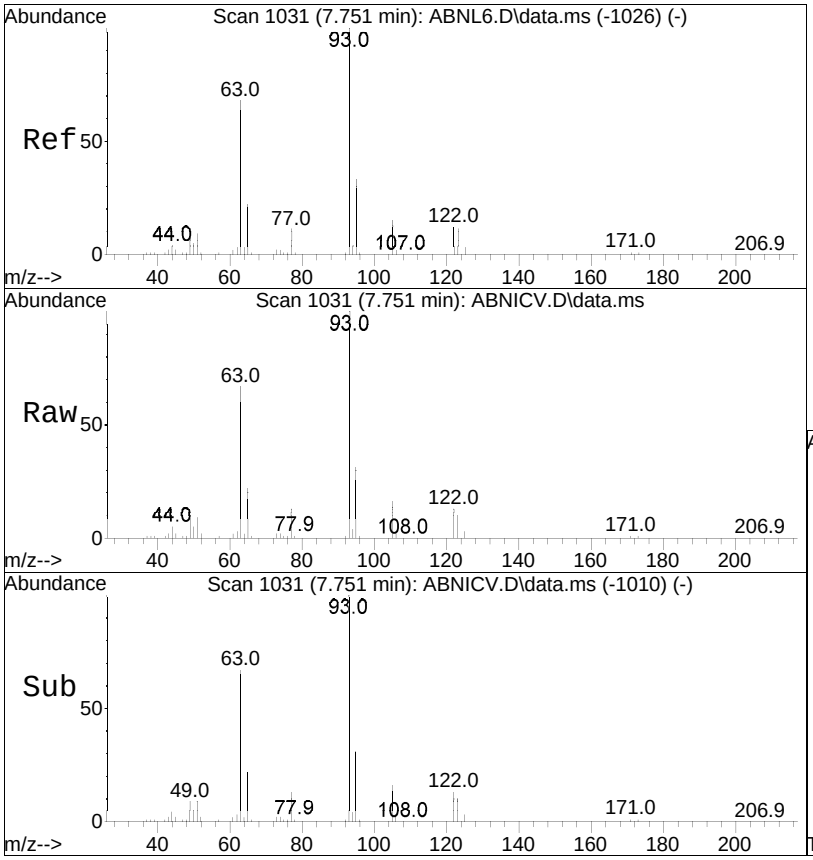


#23
2,4-Dimethylphenol
Concen: 5.15 ug/ml
RT: 7.657 min Scan# 1015
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:107 Resp: 67410

Ion	Ratio	Lower	Upper
107	100		
121	50.6	40.0	60.0
122	85.3	70.2	105.4

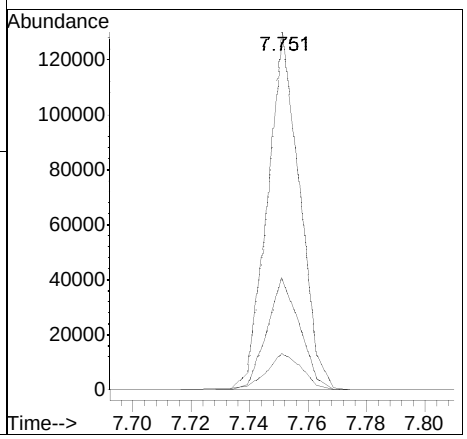


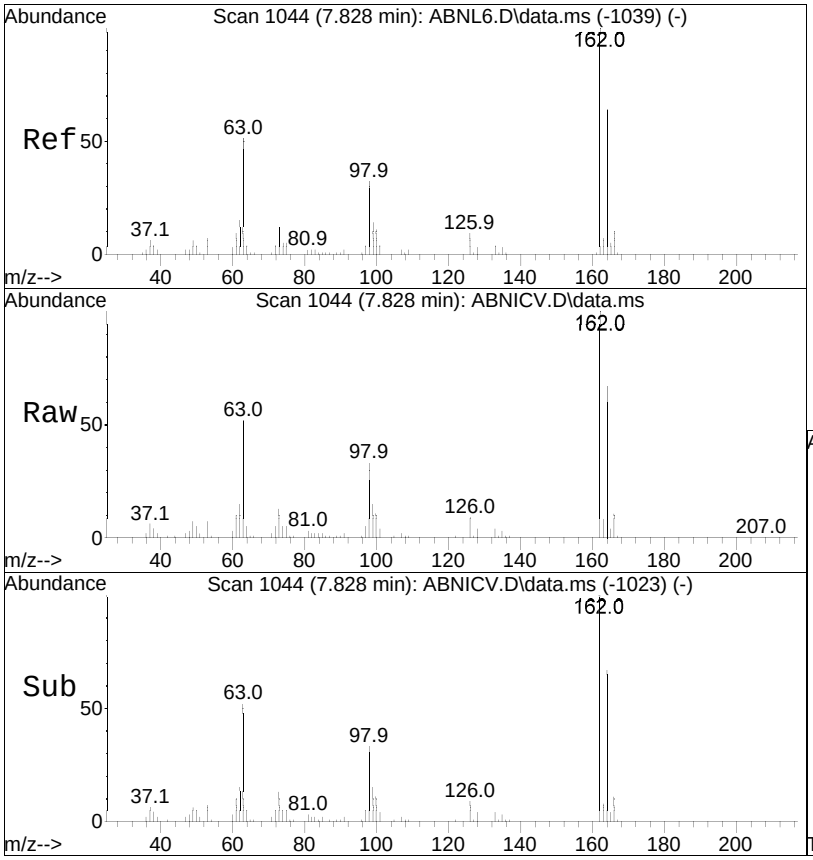


#24
Bis(2-chloroethoxy)methane
Concen: 5.45 ug/ml
RT: 7.751 min Scan# 1031
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 93 Resp: 98786

Ion	Ratio	Lower	Upper
93	100		
95	32.0	25.8	38.8
123	11.7	10.1	15.1

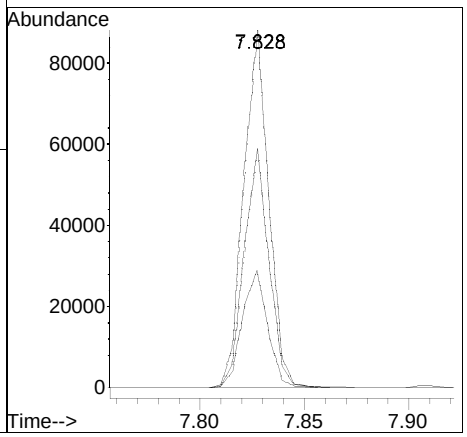


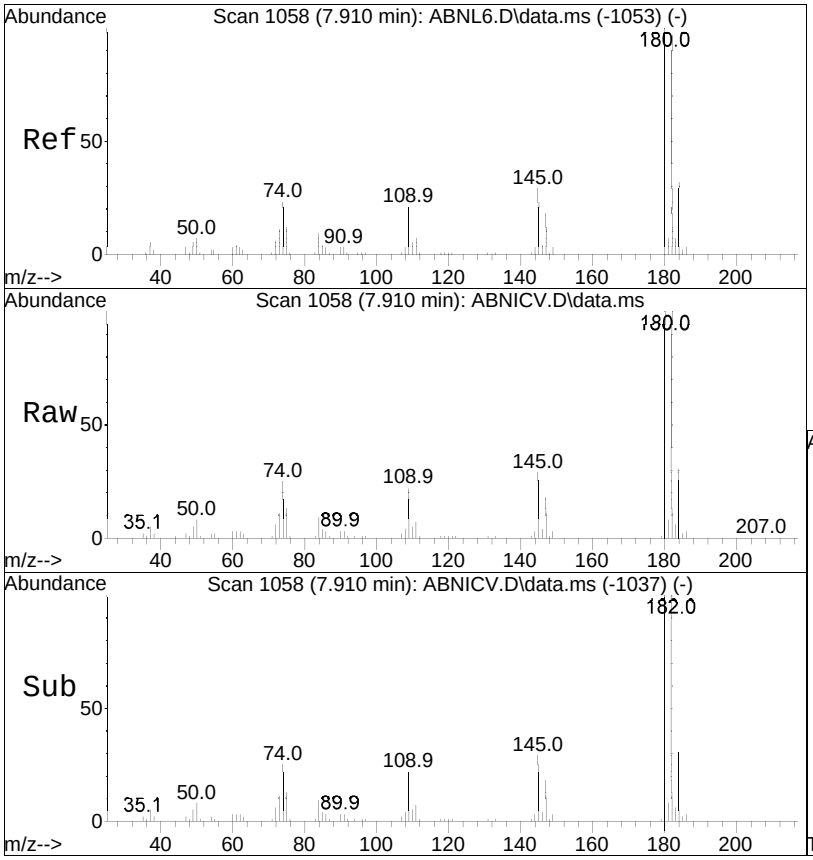


#25
2,4-Dichlorophenol
Concen: 5.52 ug/ml
RT: 7.828 min Scan# 1044
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:162 Resp: 72592

Ion	Ratio	Lower	Upper
162	100		
164	66.1	51.0	76.4
98	33.5	32.2	48.2

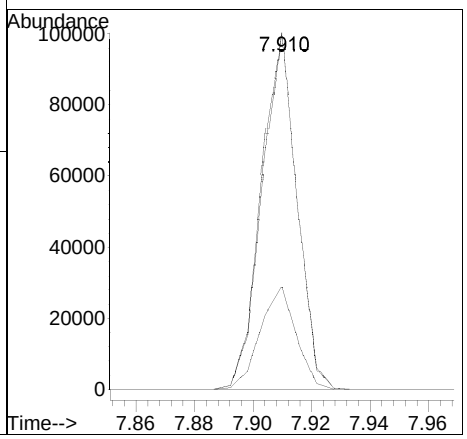


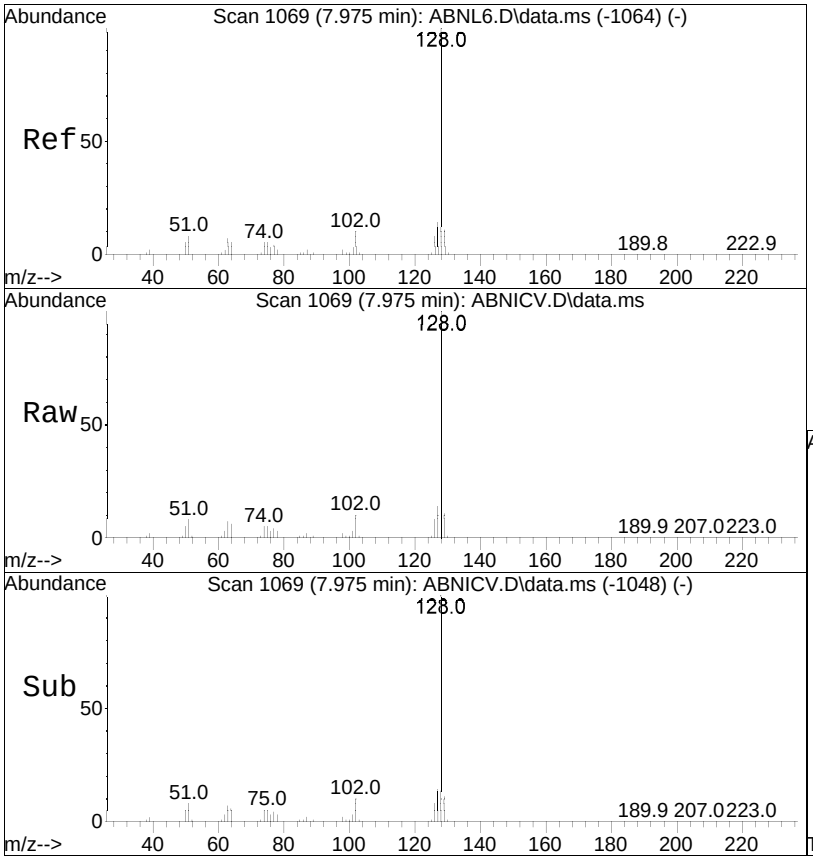


#26
1,2,4-Trichlorobenzene
Concen: 5.35 ug/ml
RT: 7.910 min Scan# 1058
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:180 Resp: 84896

Ion	Ratio	Lower	Upper
180	100		
182	97.4	76.0	114.0
145	29.0	25.7	38.5

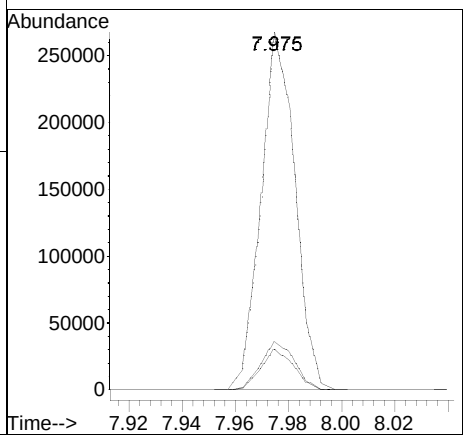


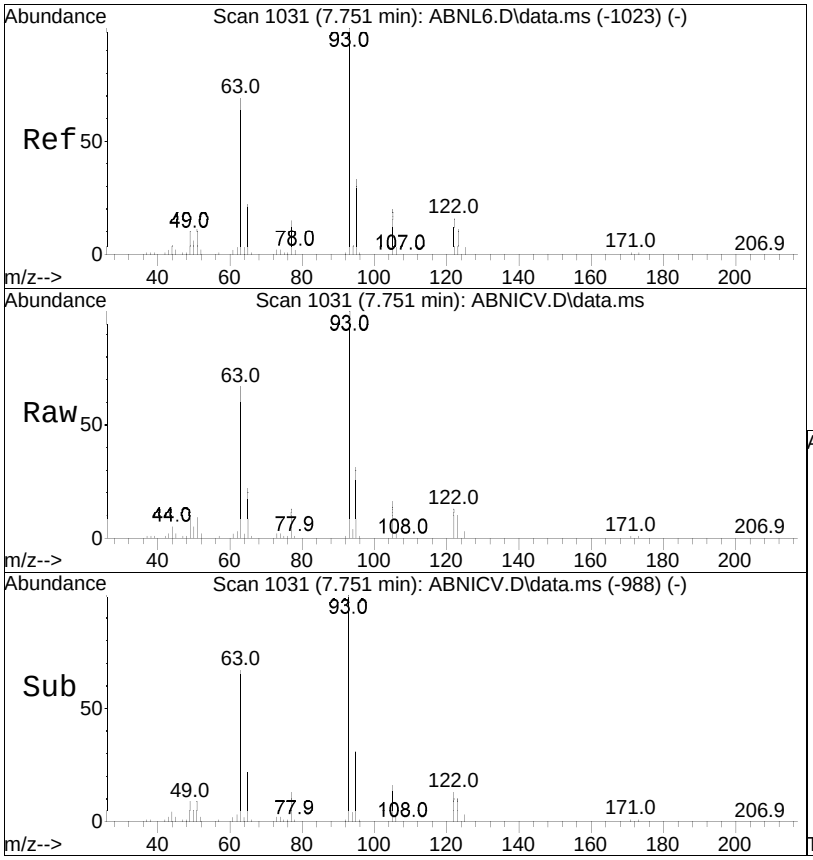


#35
Naphthalene
Concen: 5.22 ug/ml
RT: 7.975 min Scan# 1069
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:128 Resp: 234099

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.7	13.1
127	13.6	10.3	15.5

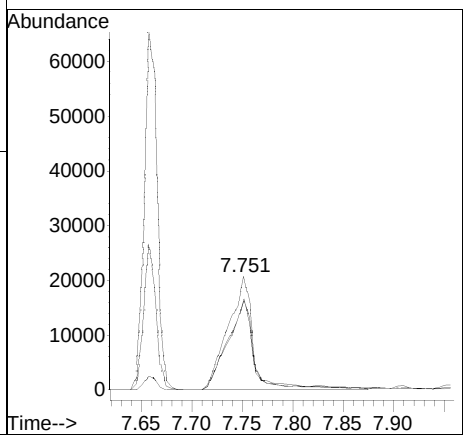


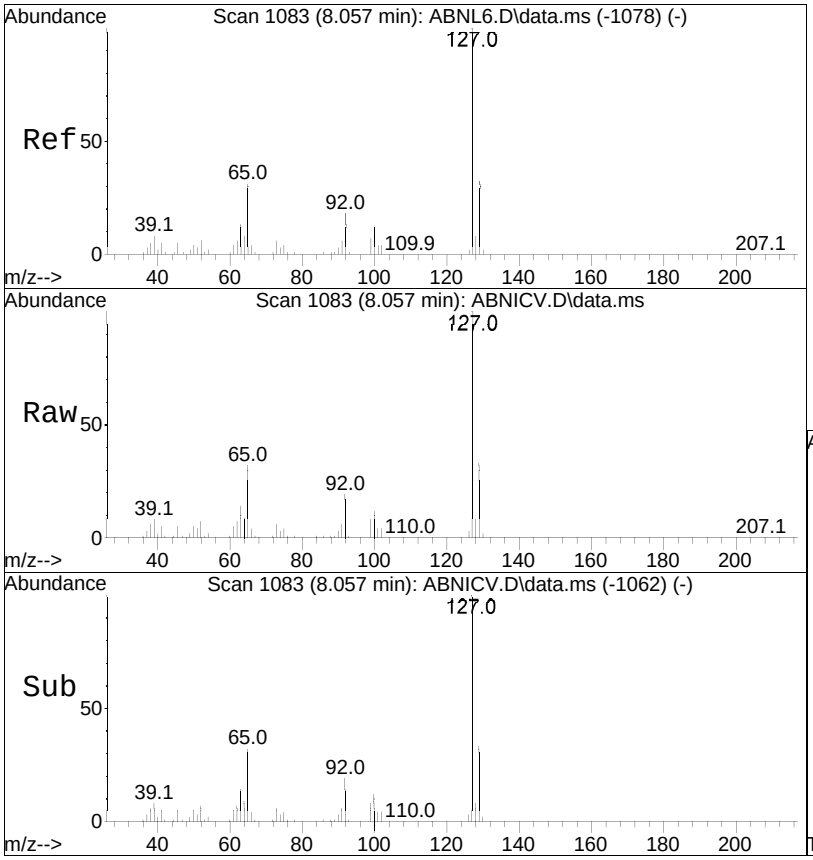


#36
Benzoic Acid
Concen: 4.82 ug/ml
RT: 7.751 min Scan# 1031
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:105 Resp: 37692

Ion	Ratio	Lower	Upper
105	100		
122	80.2	59.9	89.9
77	75.3	60.1	90.1

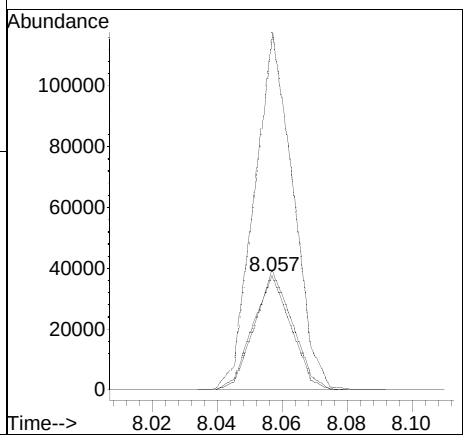


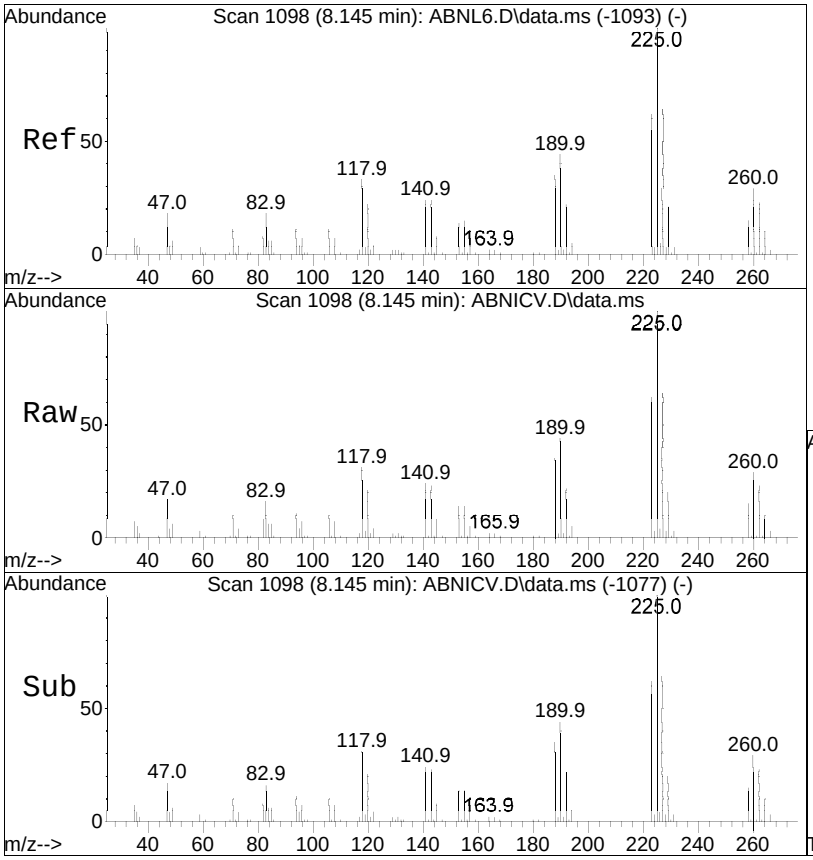


#37
4-Chloroaniline
Concen: 5.40 ug/ml
RT: 8.057 min Scan# 1083
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 65 Resp: 30505

Ion	Ratio	Lower	Upper
65	100		
127	316.4	237.6	356.4
129	103.0	76.3	114.5

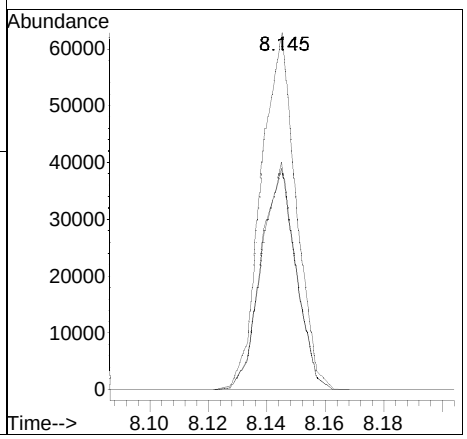


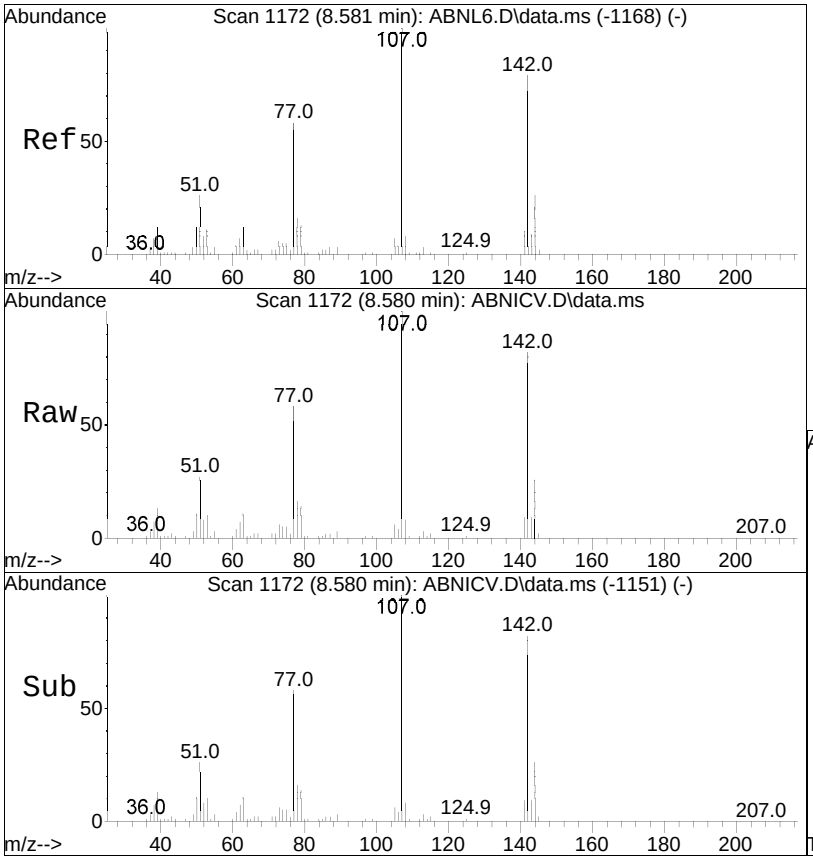


#38
Hexachlorobutadiene
Concen: 5.46 ug/ml
RT: 8.145 min Scan# 1098
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:225 Resp: 51724

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.3	75.5
227	62.7	52.2	78.2

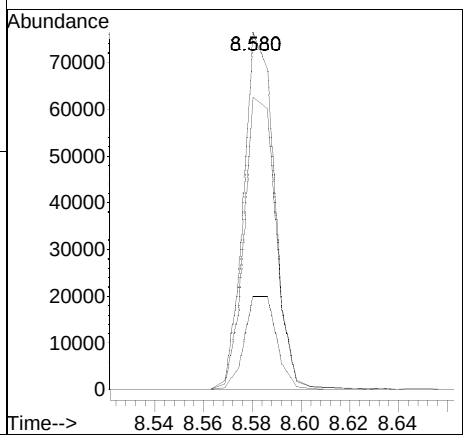


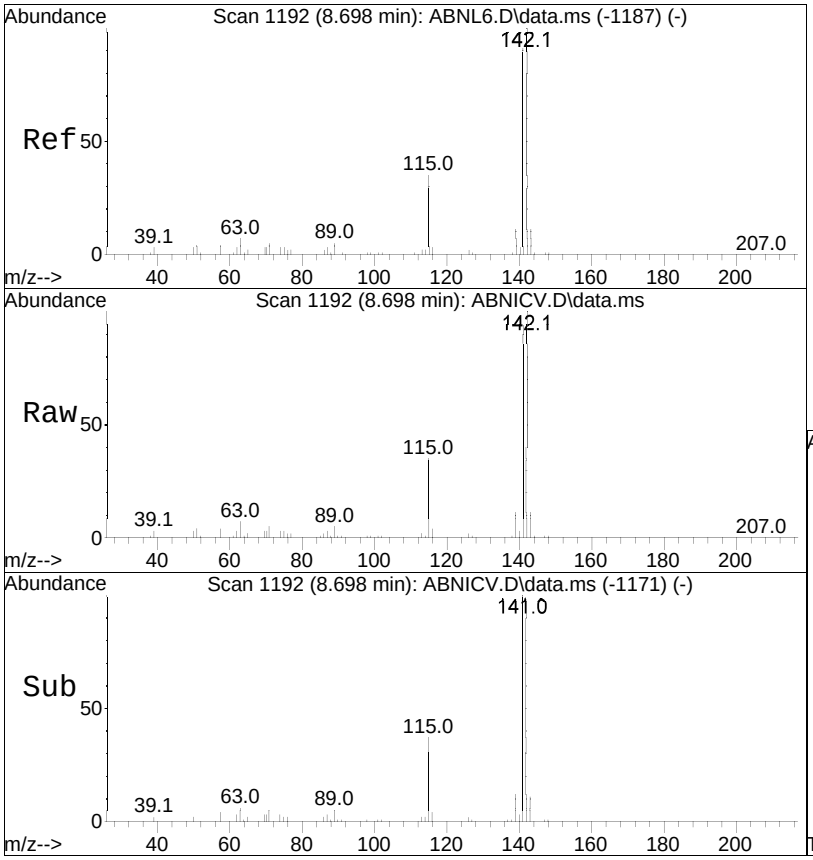


#39
p-Chloro-m-cresol
Concen: 5.45 ug/ml
RT: 8.580 min Scan# 1172
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:107 Resp: 66777

Ion	Ratio	Lower	Upper
107	100		
144	27.2	20.9	31.3
142	84.7	66.1	99.1

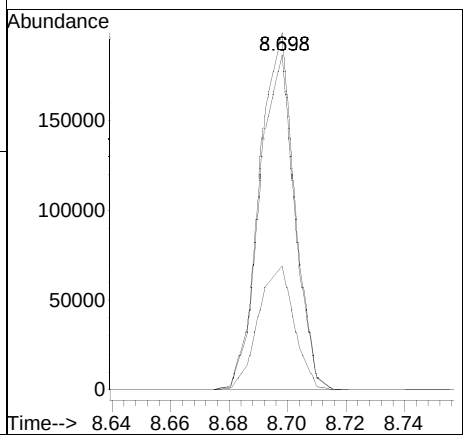


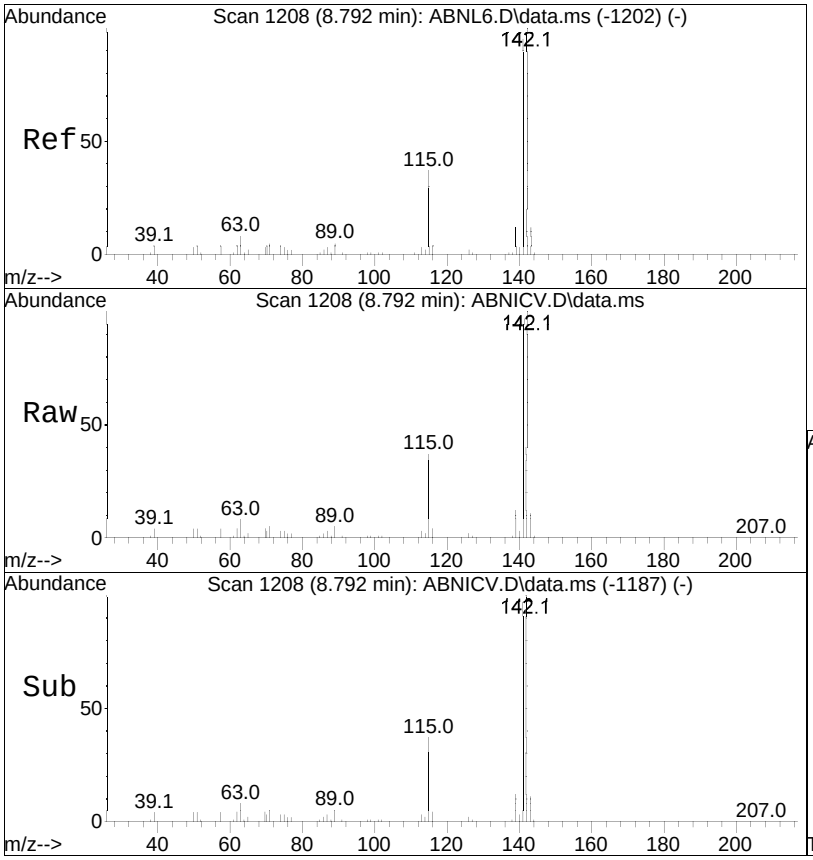


#40
2-Methylnaphthalene
Concen: 5.37 ug/ml
RT: 8.698 min Scan# 1192
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:142 Resp: 166439

Ion	Ratio	Lower	Upper
142	100		
141	93.2	69.6	104.4
115	35.6	26.6	40.0

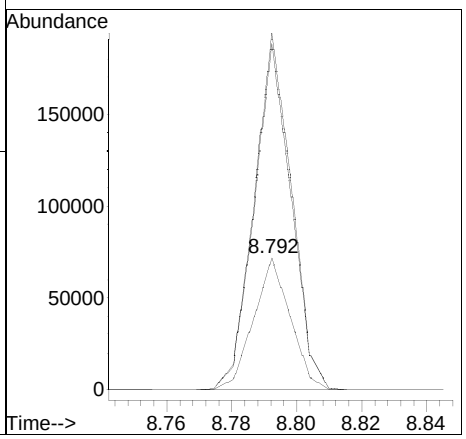


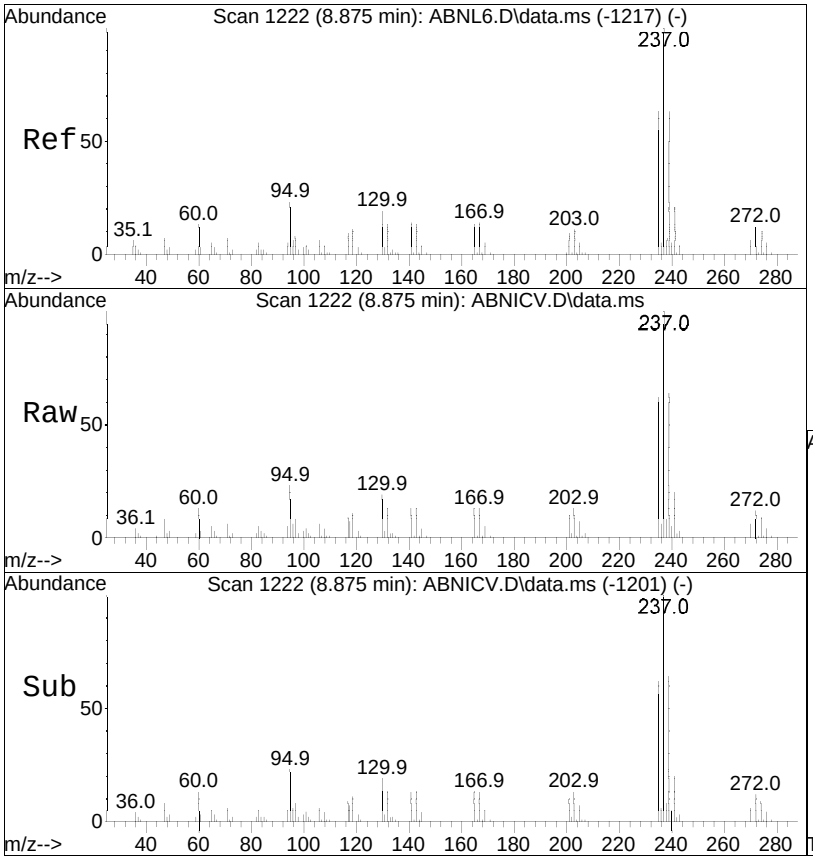


#41
1-Methylnaphthalene
Concen: 5.35 ug/ml
RT: 8.792 min Scan# 1208
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:115 Resp: 56538

Ion	Ratio	Lower	Upper
115	100		
141	261.8	207.8	311.6
142	273.1	226.8	340.2

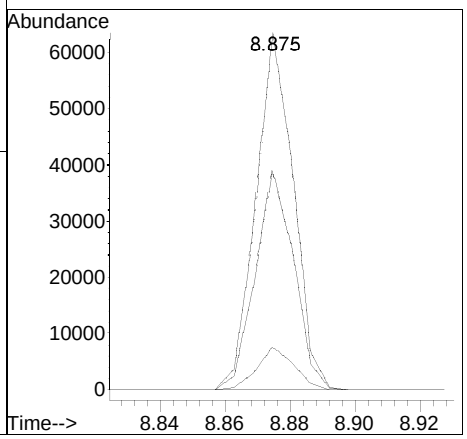


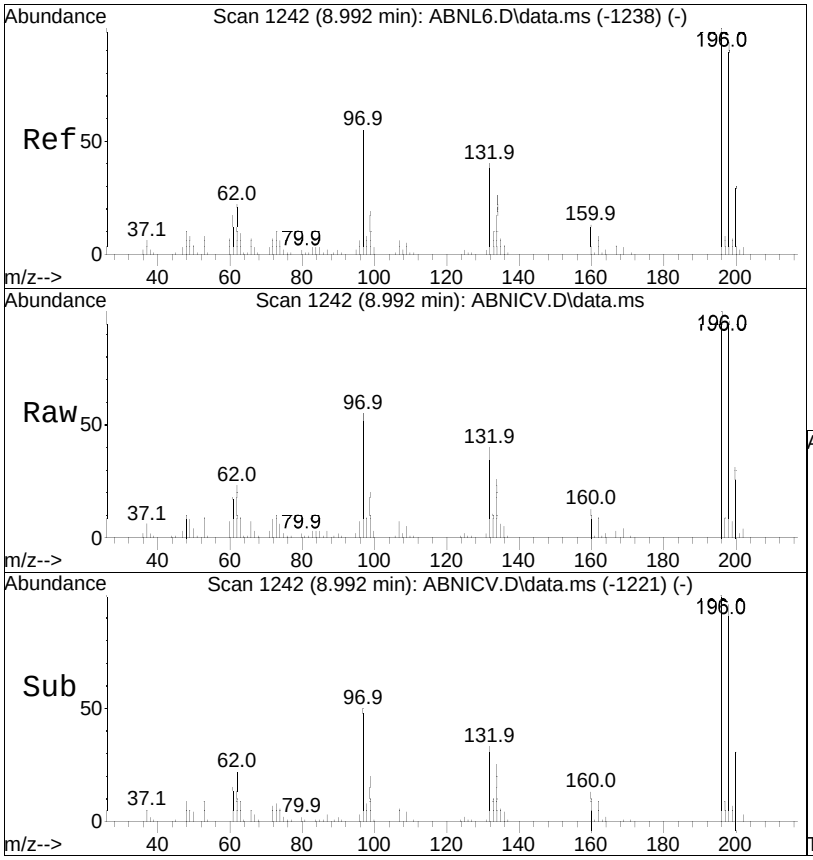


#42
Hexachlorocyclopentadiene
Concen: 5.48 ug/ml
RT: 8.875 min Scan# 1222
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:237 Resp: 50620

Ion	Ratio	Lower	Upper
237	100		
235	63.1	49.7	74.5
272	11.9	9.8	14.6

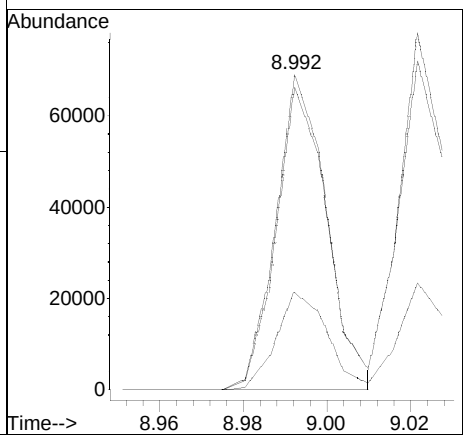


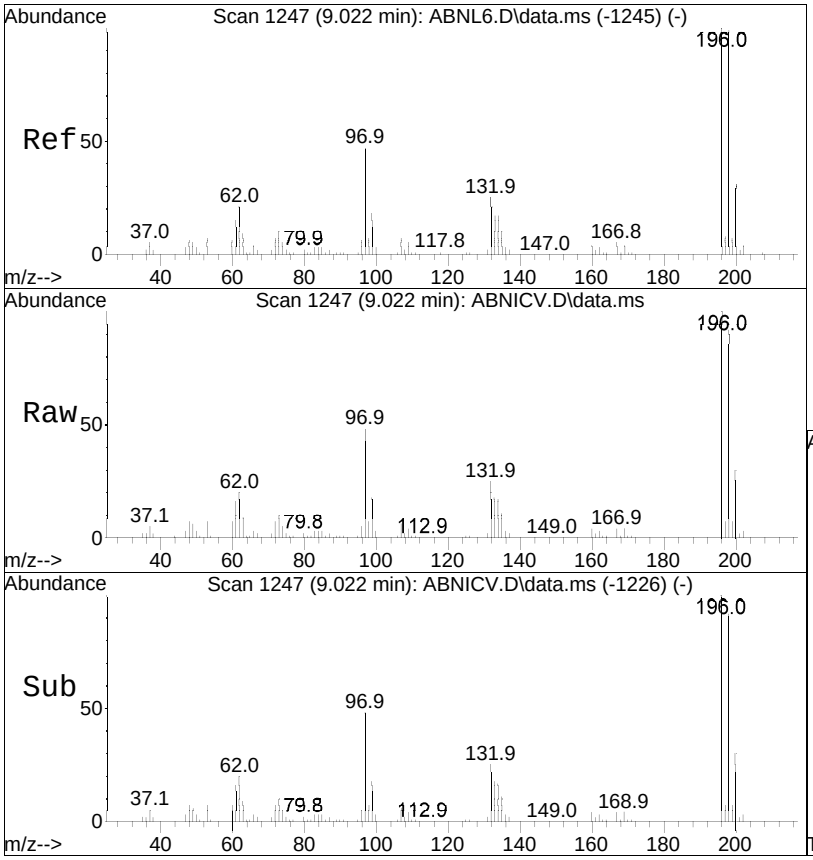


#43
2,4,6-Trichlorophenol
Concen: 5.49 ug/ml
RT: 8.992 min Scan# 1242
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:196 Resp: 58438

Ion	Ratio	Lower	Upper
196	100		
198	96.0	77.5	116.3
200	31.5	23.8	35.6

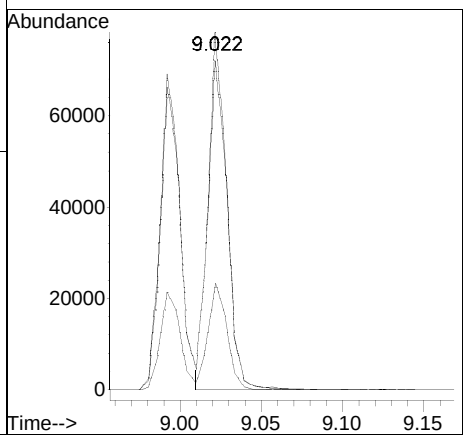


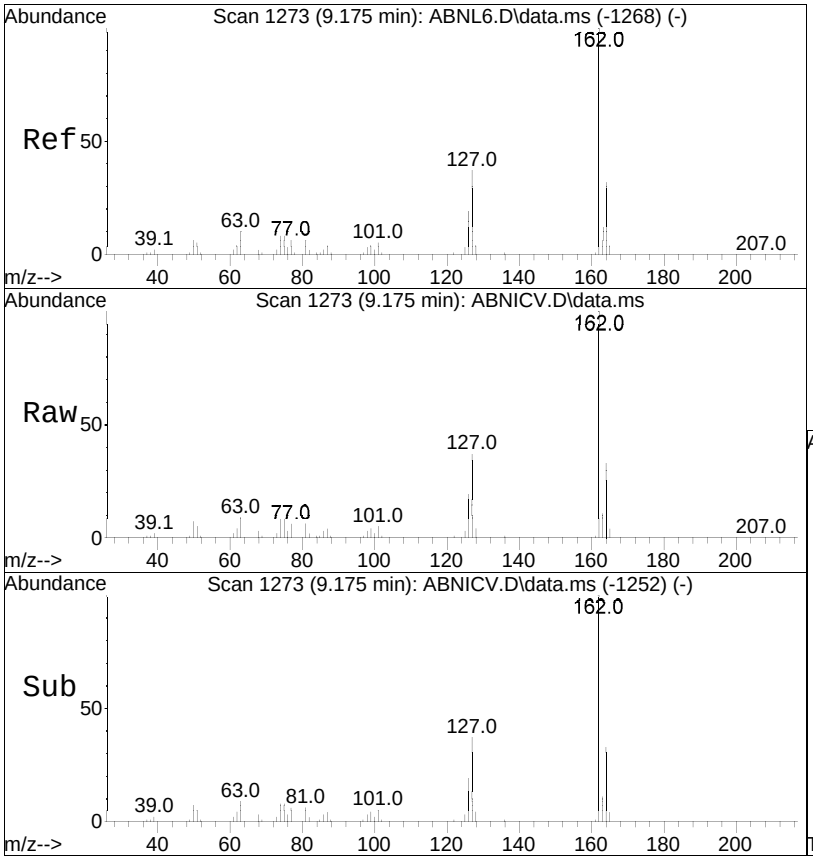


#44
2,4,5-Trichlorophenol
Concen: 5.54 ug/ml
RT: 9.022 min Scan# 1247
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:196 Resp: 62619

Ion	Ratio	Lower	Upper
196	100		
200	30.1	25.4	38.0
198	95.3	78.0	117.0

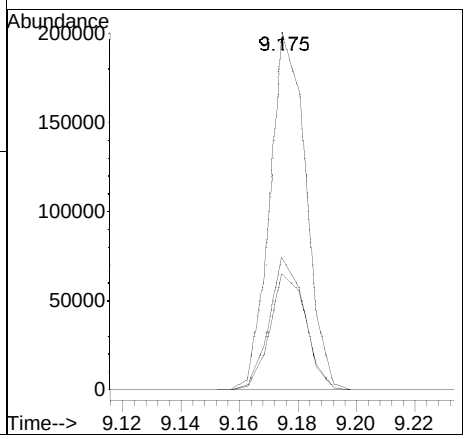


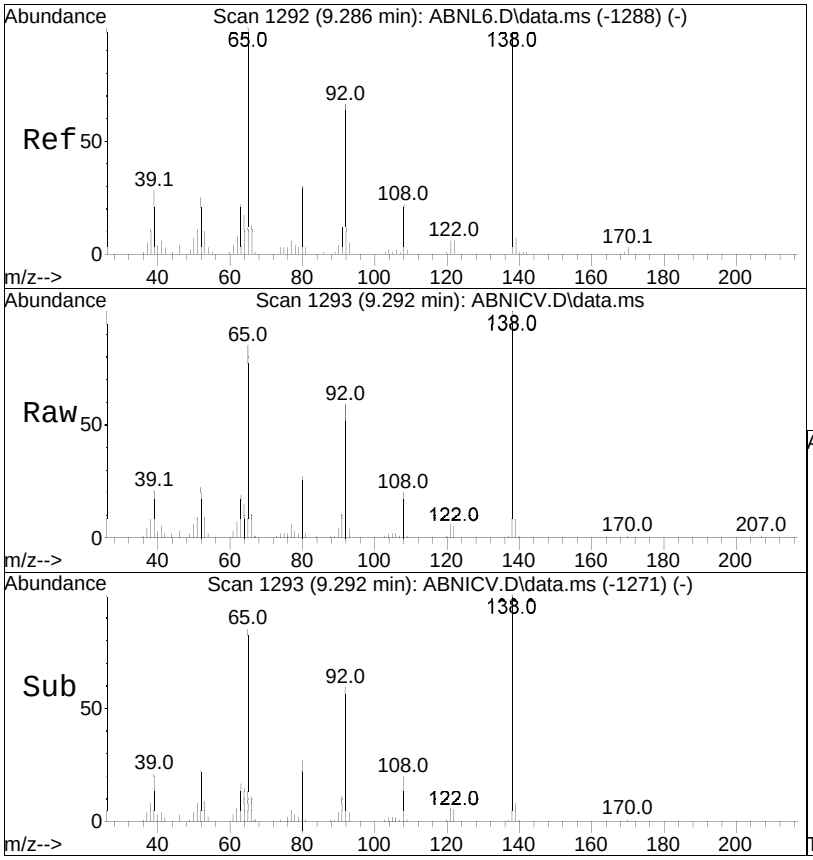


#46
2-Chloronaphthalene
Concen: 5.28 ug/ml
RT: 9.175 min Scan# 1273
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:162 Resp: 170033

Ion	Ratio	Lower	Upper
162	100		
127	36.0	32.2	48.4
164	32.8	25.7	38.5

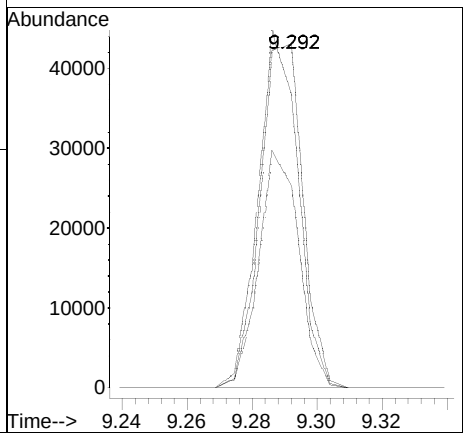


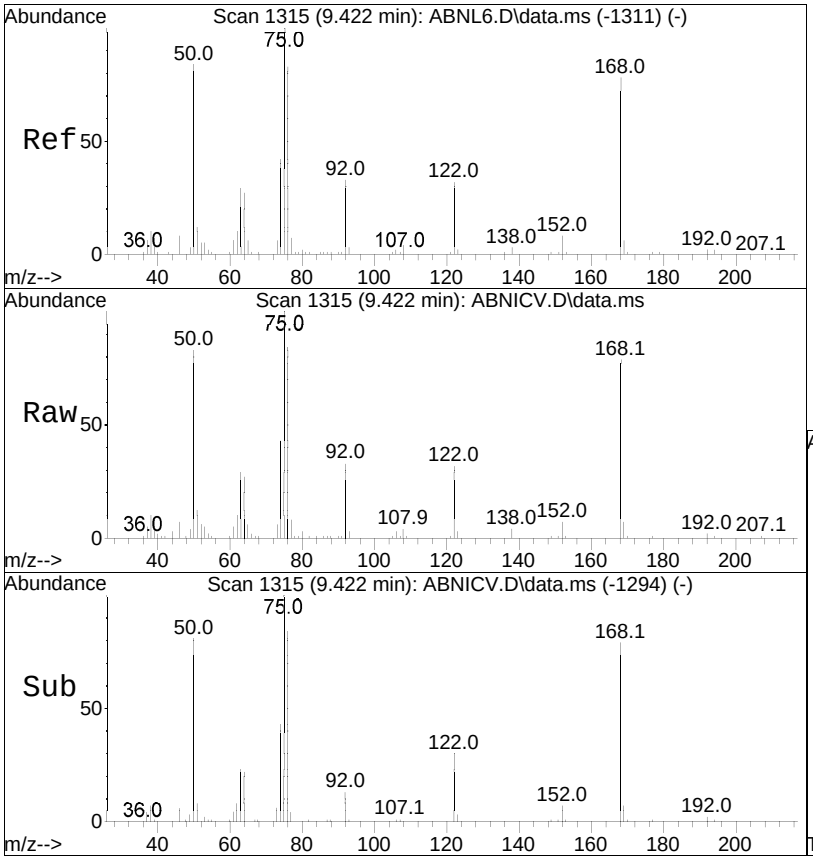


#47
2-Nitroaniline
Concen: 5.01 ug/ml
RT: 9.292 min Scan# 1293
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:138 Resp: 39012

Ion	Ratio	Lower	Upper
138	100		
92	64.9	53.5	80.3
65	96.8	86.3	129.5

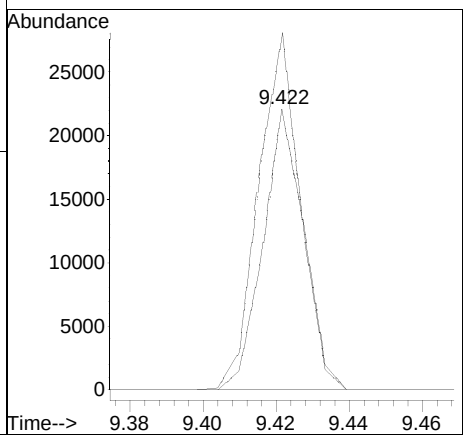


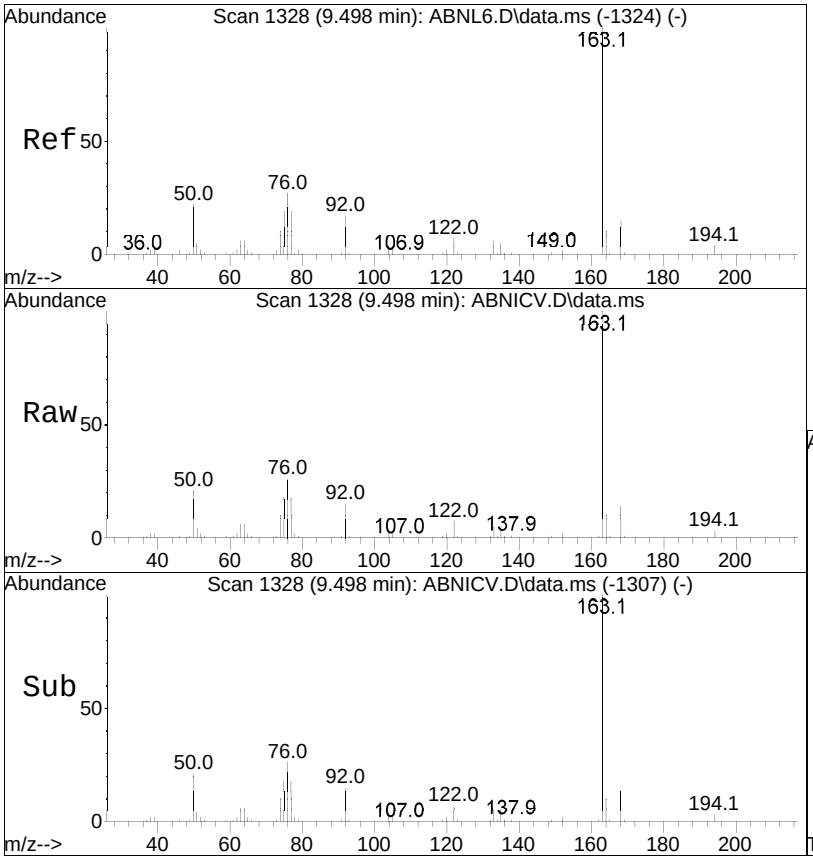


#48
1,4-Dinitrobenzene
Concen: 4.37 ug/ml
RT: 9.422 min Scan# 1315
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:168 Resp: 17114

Ion	Ratio	Lower	Upper
168	100		
75	129.1	121.8	182.8

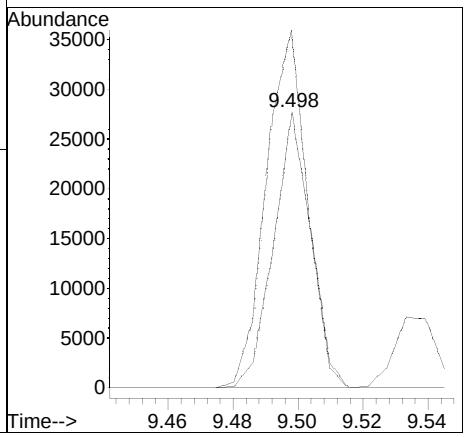


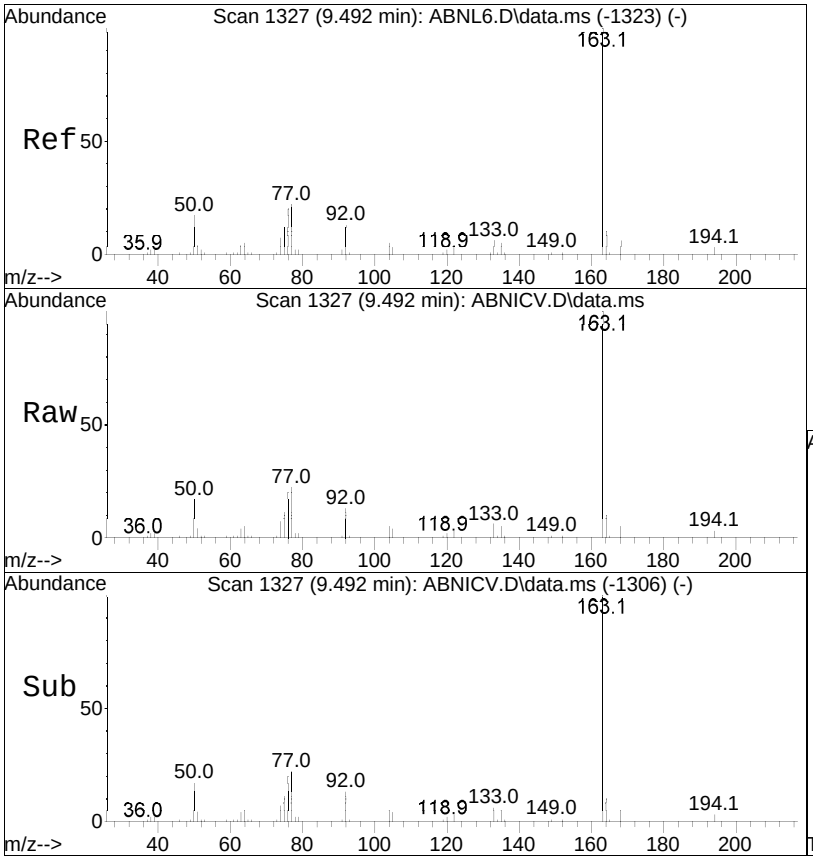


#49
1,3-Dinitrobenzene
Concen: 4.48 ug/ml
RT: 9.498 min Scan# 1328
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:168 Resp: 21913

Ion	Ratio	Lower	Upper
168	100		
75	142.2	22.7	34.1#

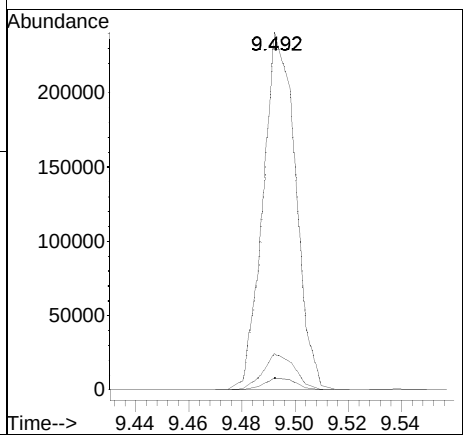


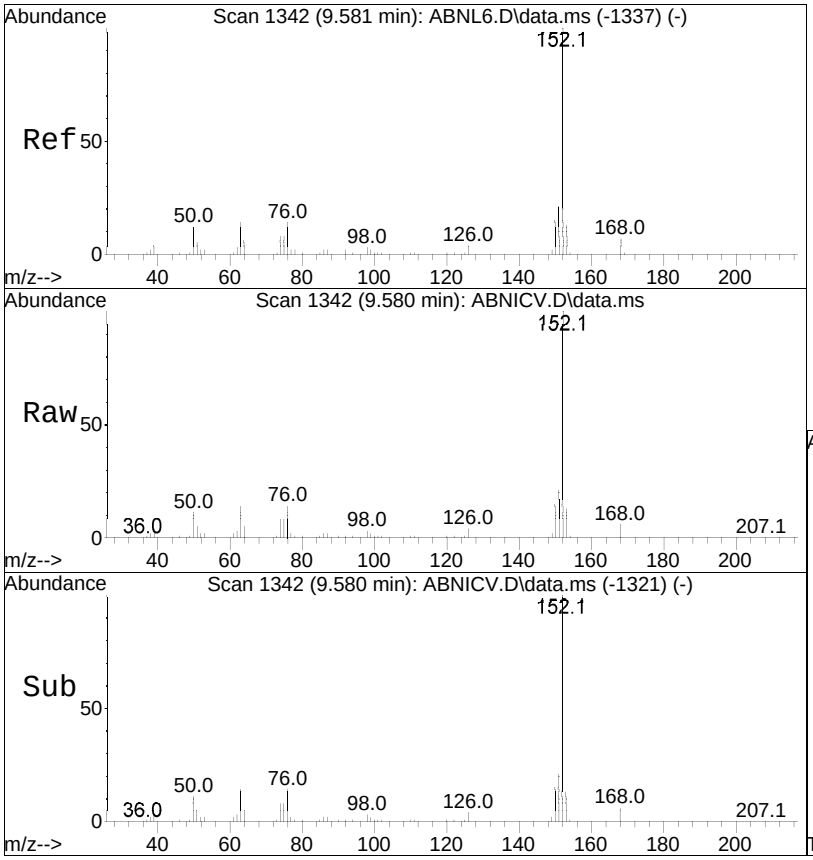


#50
Dimethyl phthalate
Concen: 5.37 ug/ml
RT: 9.492 min Scan# 1327
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:163 Resp: 202629

Ion	Ratio	Lower	Upper
163	100		
194	3.3	3.5	5.3#
164	10.0	7.9	11.9

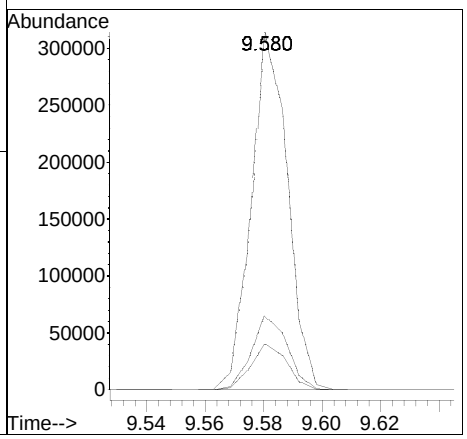


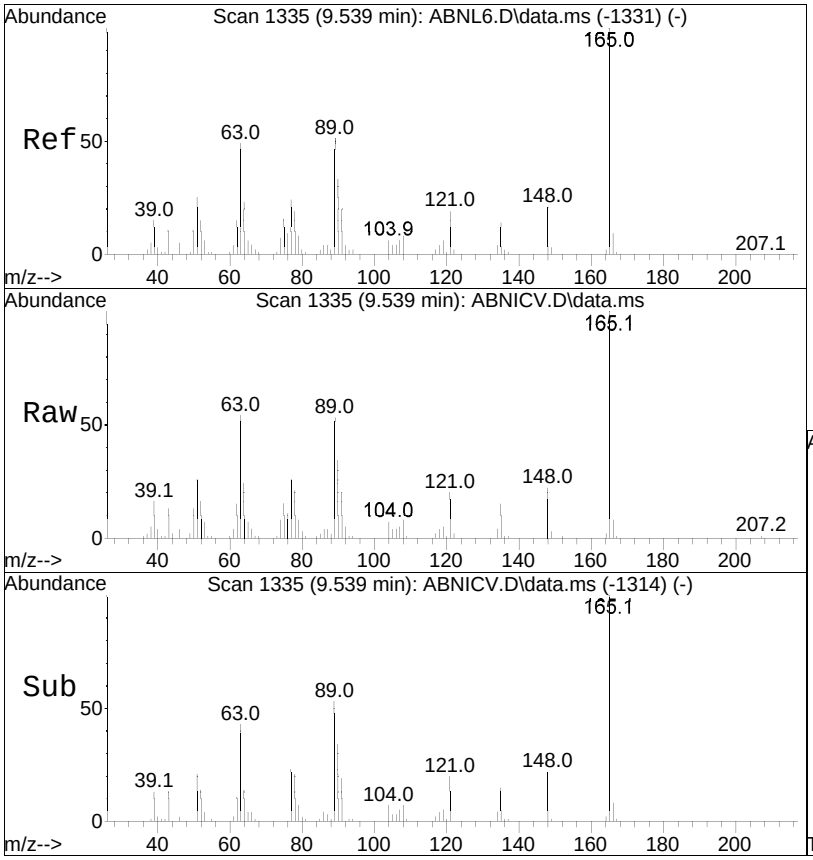


#51
Acenaphthylene
Concen: 5.51 ug/ml
RT: 9.580 min Scan# 1342
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:152 Resp: 267479

Ion	Ratio	Lower	Upper
152	100		
151	20.8	15.8	23.6
153	12.9	10.5	15.7

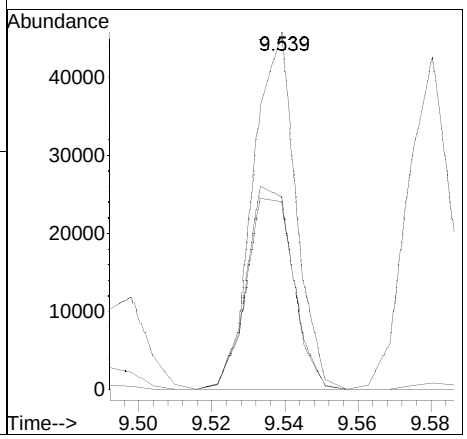


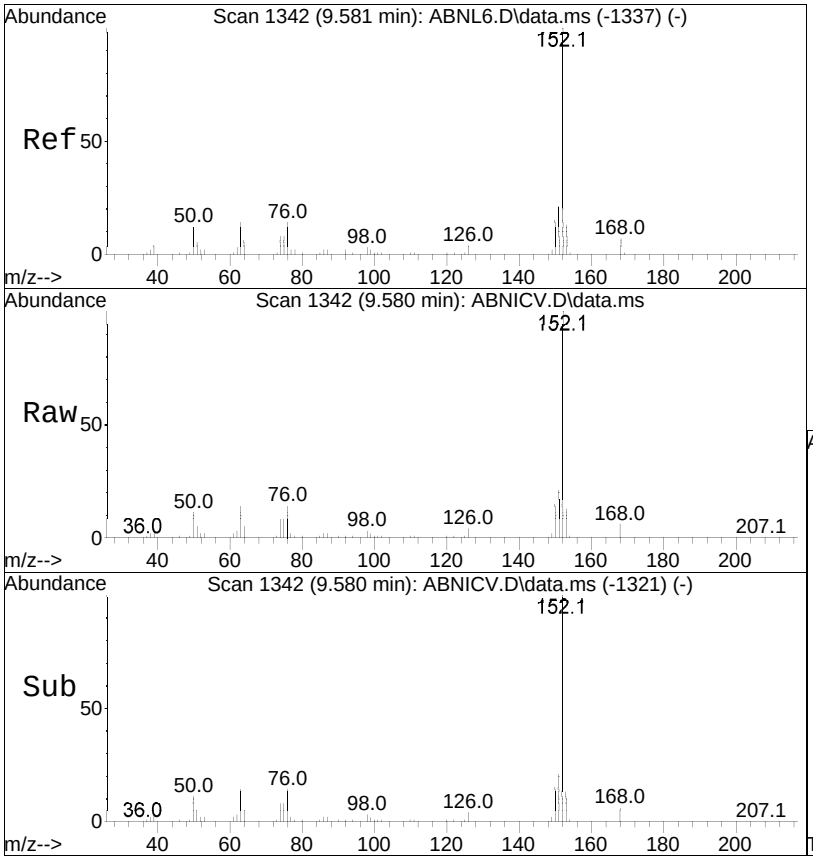


#52
2,6-Dinitrotoluene
Concen: 5.43 ug/ml
RT: 9.539 min Scan# 1335
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:165 Resp: 37241

Ion	Ratio	Lower	Upper
165	100		
89	59.7	54.2	81.2
63	61.7	64.2	96.2#

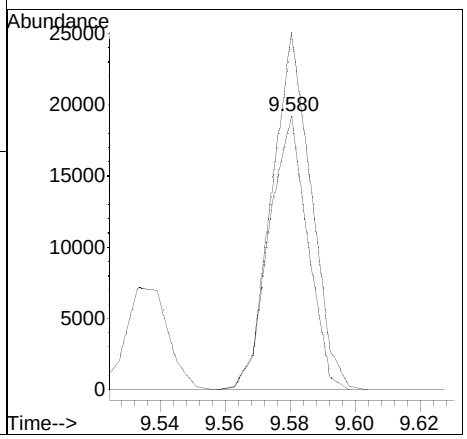


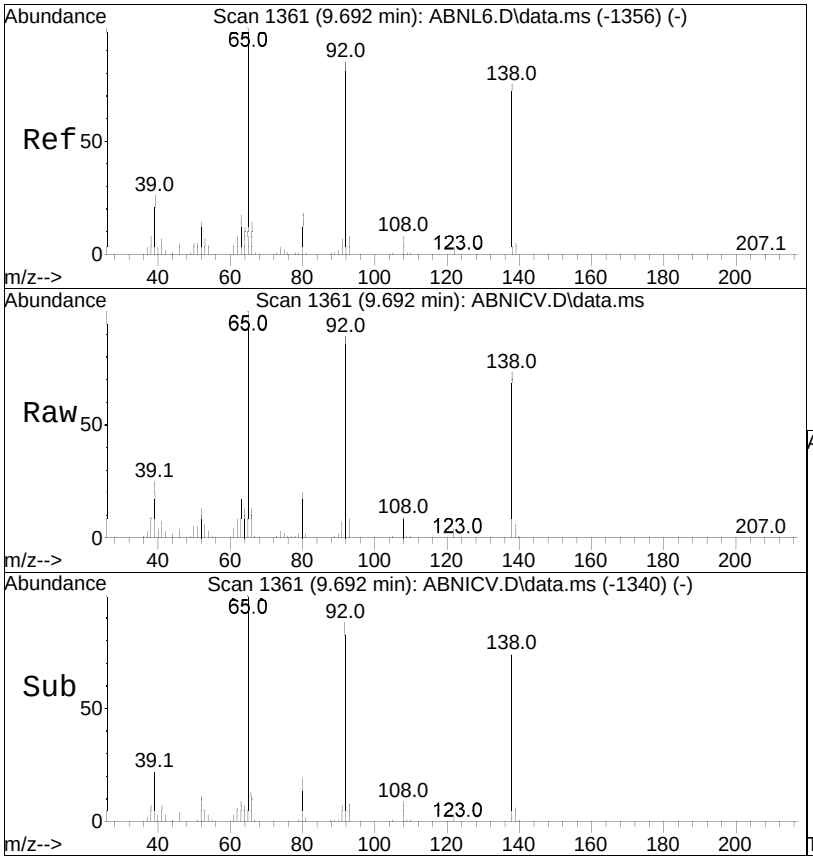


#53
1,2-Dinitrobenzene
Concen: 5.13 ug/ml
RT: 9.580 min Scan# 1342
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:168 Resp: 15743

Ion	Ratio	Lower	Upper
168	100		
75	133.3	30.9	46.3#

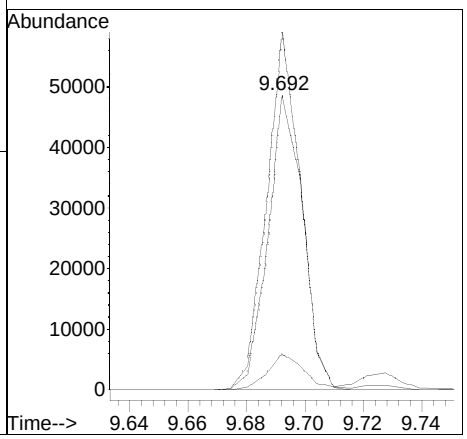


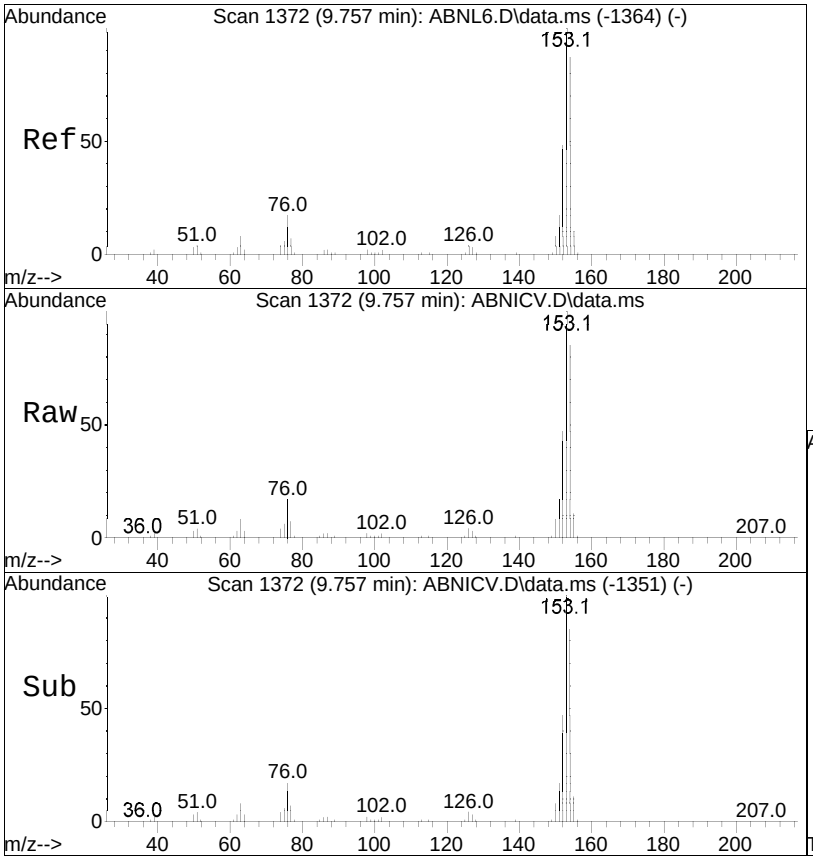


#63
3-Nitroaniline
Concen: 5.53 ug/ml
RT: 9.692 min Scan# 1361
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:138 Resp: 39753

Ion	Ratio	Lower	Upper
138	100		
92	118.5	93.4	140.2
108	12.8	9.5	14.3

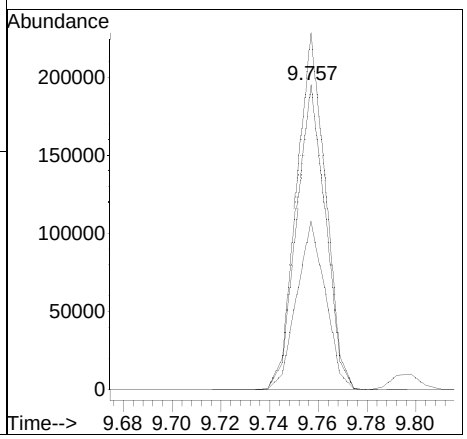


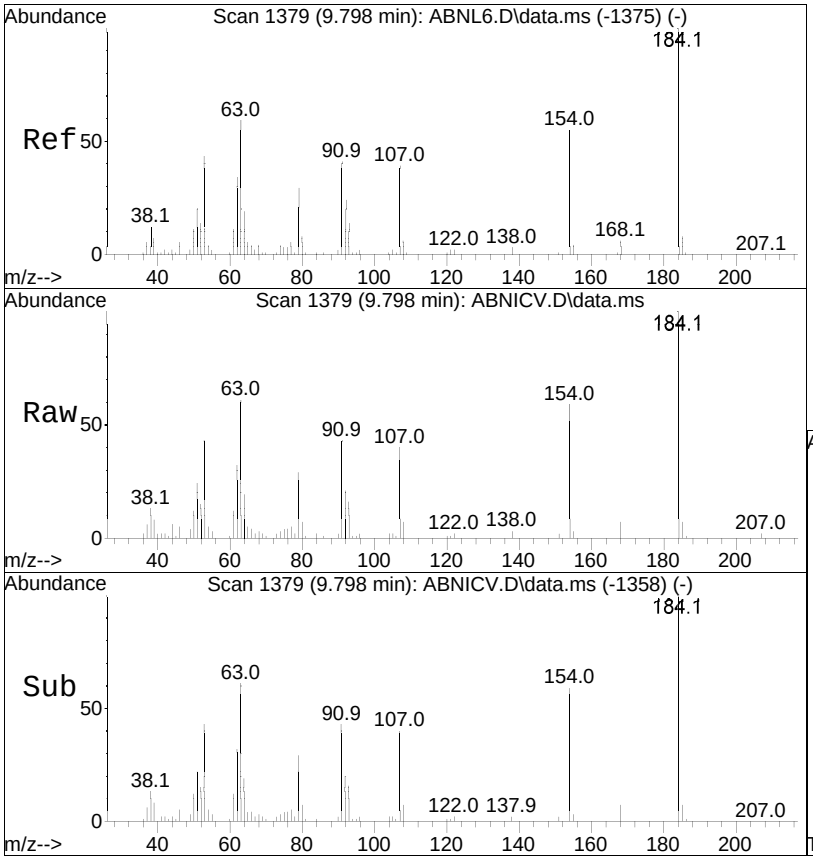


#64
Acenaphthene
Concen: 5.38 ug/ml
RT: 9.757 min Scan# 1372
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:154 Resp: 161236

Ion	Ratio	Lower	Upper
154	100		
153	116.6	85.3	127.9
152	55.3	41.4	62.0

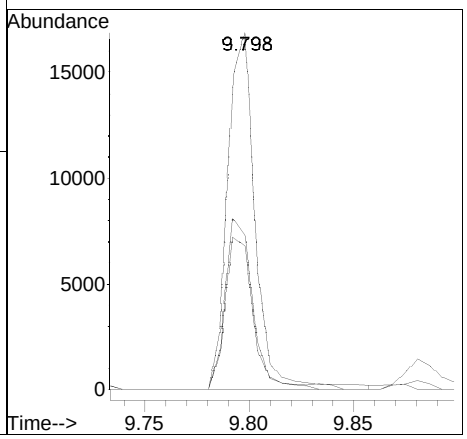


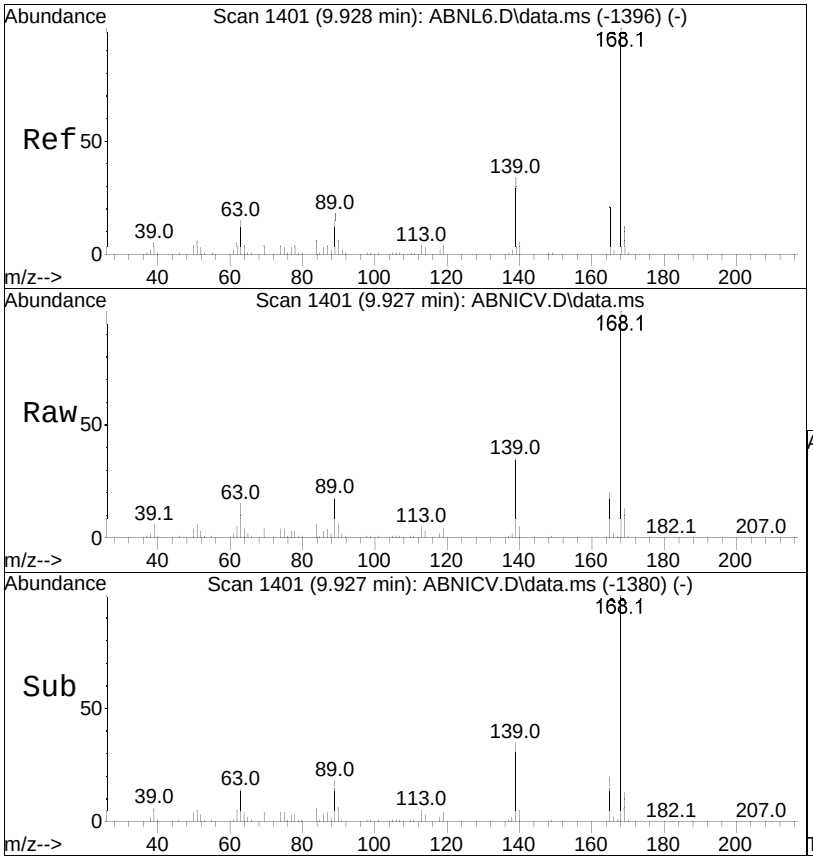


#65
2,4-Dinitrophenol
Concen: 4.21 ug/ml
RT: 9.798 min Scan# 1379
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:184 Resp: 15506

Ion	Ratio	Lower	Upper
184	100		
107	43.0	37.7	56.5
91	48.6	46.3	69.5

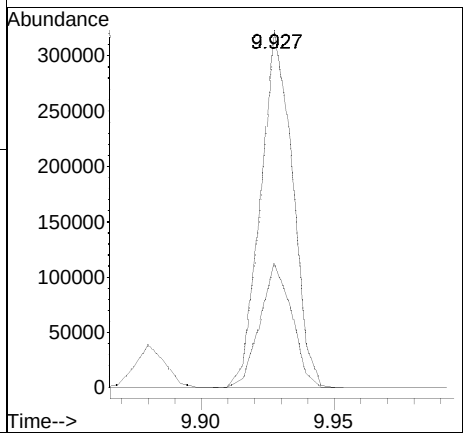


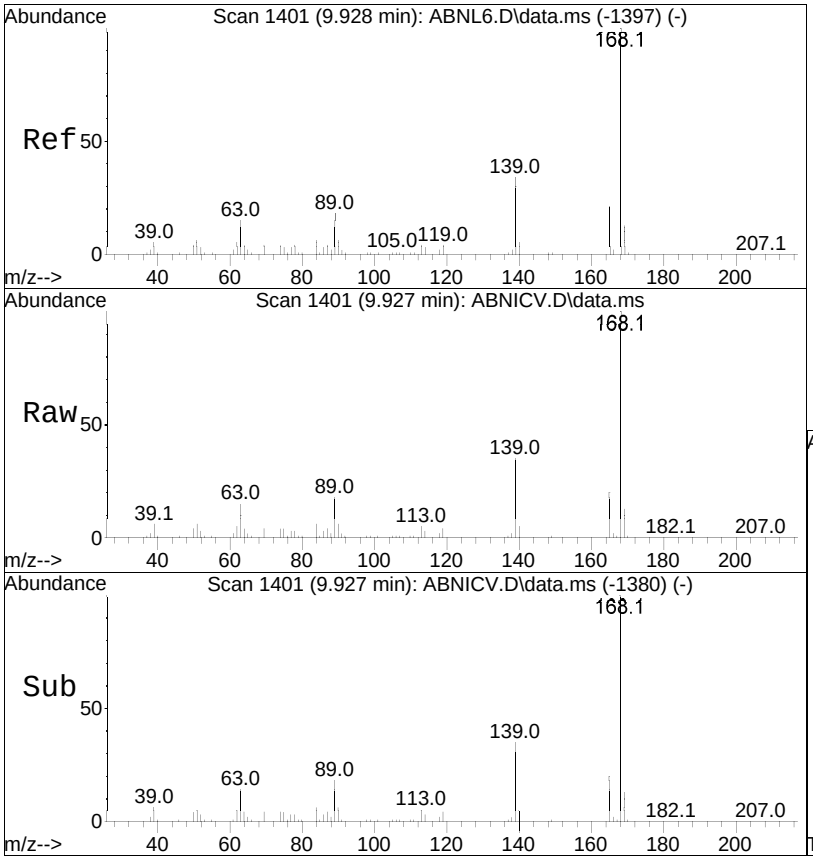


#66
Dibenzofuran
Concen: 5.47 ug/ml
RT: 9.927 min Scan# 1401
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:168 Resp: 266500

Ion	Ratio	Lower	Upper
168	100		
139	35.1	31.4	47.2

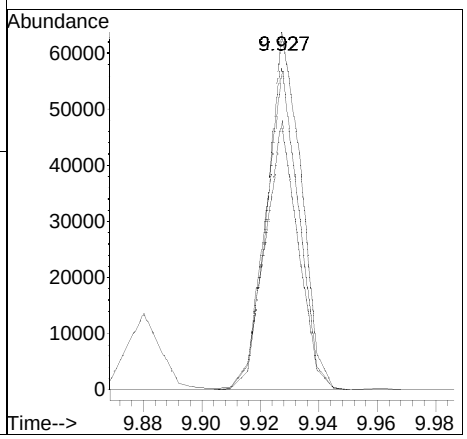


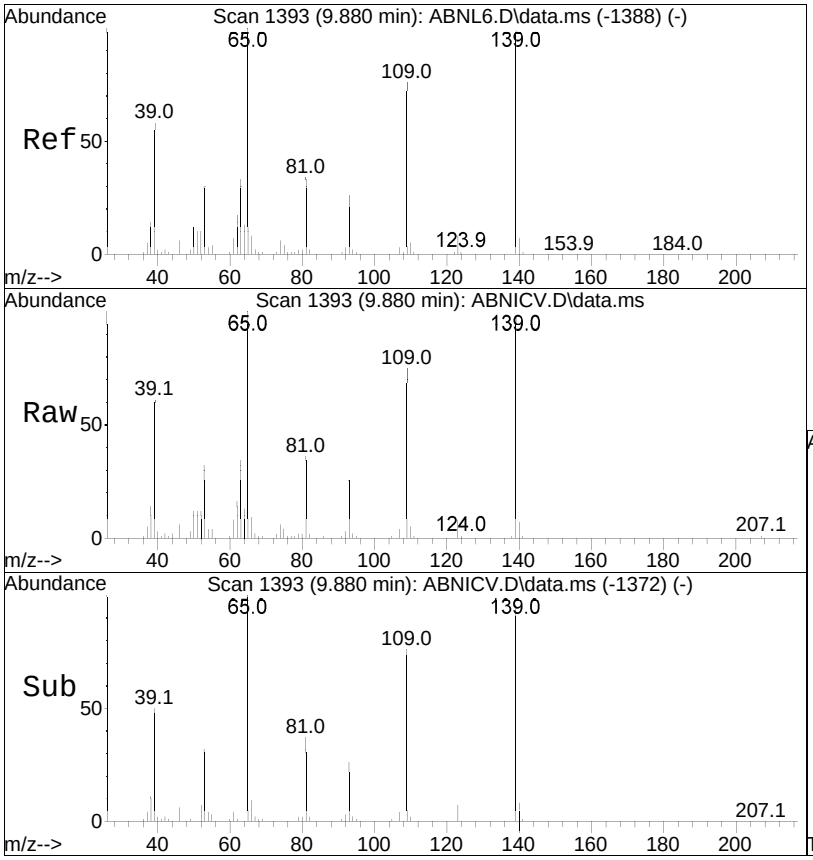


#67
2,4-Dinitrotoluene
Concen: 4.70 ug/ml
RT: 9.927 min Scan# 1401
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:165 Resp: 50041

Ion	Ratio	Lower	Upper
165	100		
89	88.8	72.0	108.0
63	75.3	52.7	79.1

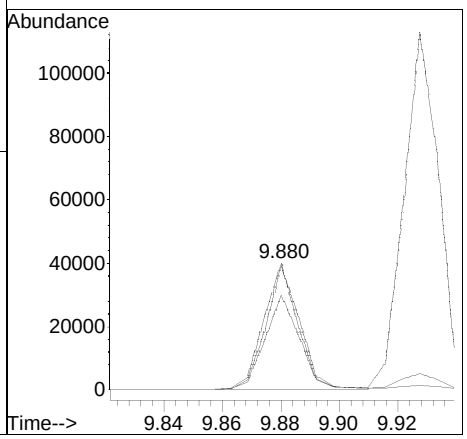


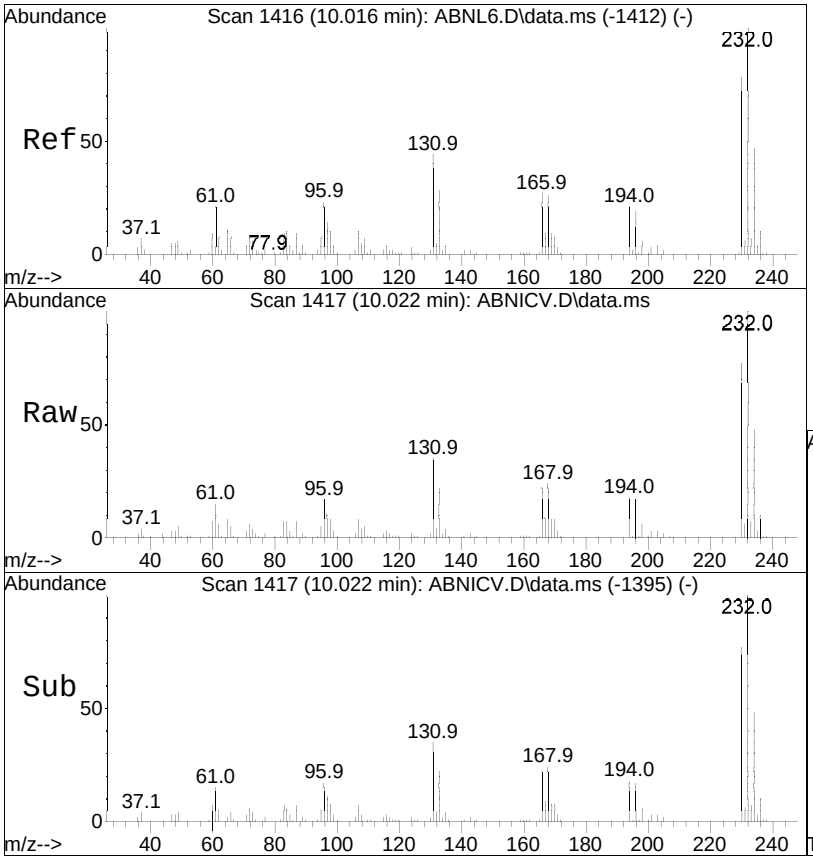


#68
4-Nitrophenol
Concen: 5.24 ug/ml
RT: 9.880 min Scan# 1393
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 65 Resp: 32159

Ion	Ratio	Lower	Upper
65	100		
109	76.3	47.4	71.2#
139	97.3	76.6	115.0

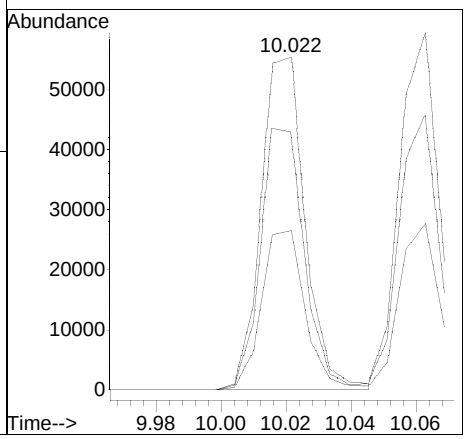


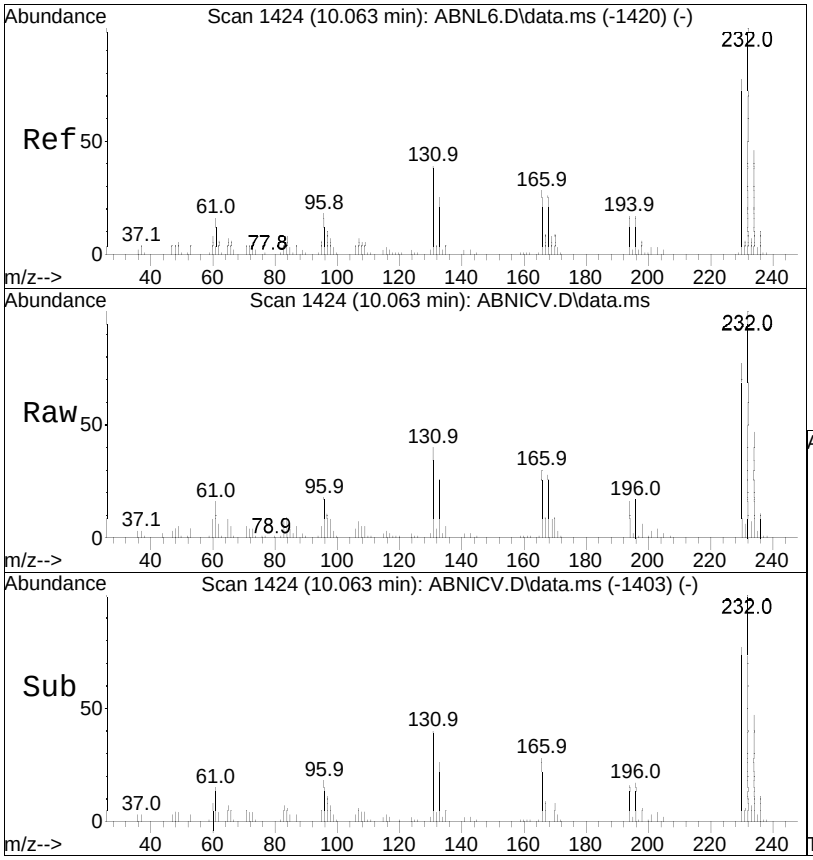


#69
2,3,5,6-Tetrachlorophenol
Concen: 5.94 ug/ml
RT: 10.022 min Scan# 1417
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:232 Resp: 52335

Ion	Ratio	Lower	Upper
232	100		
230	77.8	64.2	96.4
234	47.5	38.1	57.1

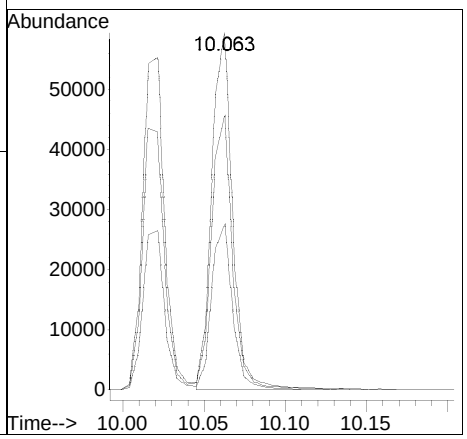


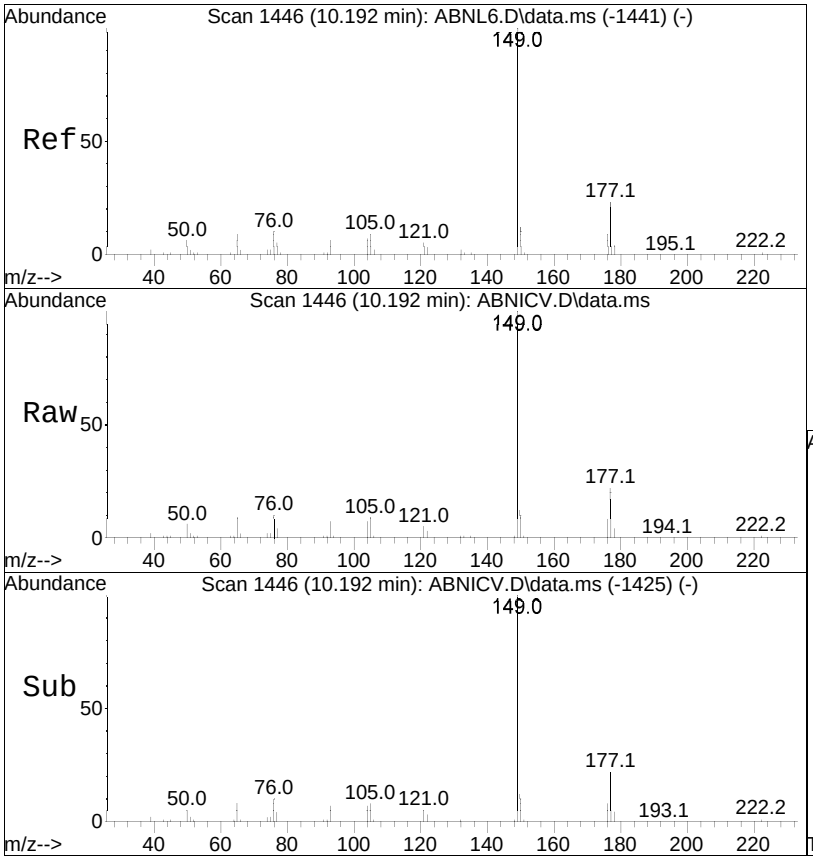


#70
2,3,4,6-Tetrachlorophenol
Concen: 6.15 ug/ml
RT: 10.063 min Scan# 1424
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:232 Resp: 53523

Ion	Ratio	Lower	Upper
232	100		
230	77.6	61.8	92.8
234	46.4	36.2	54.2

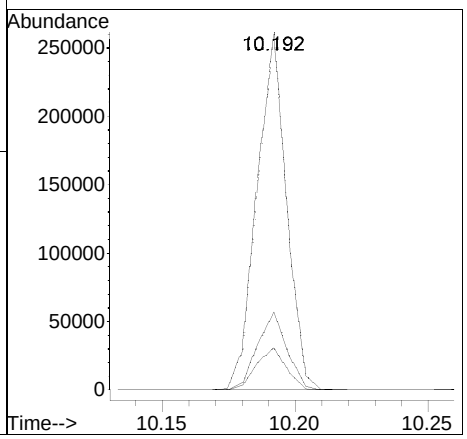


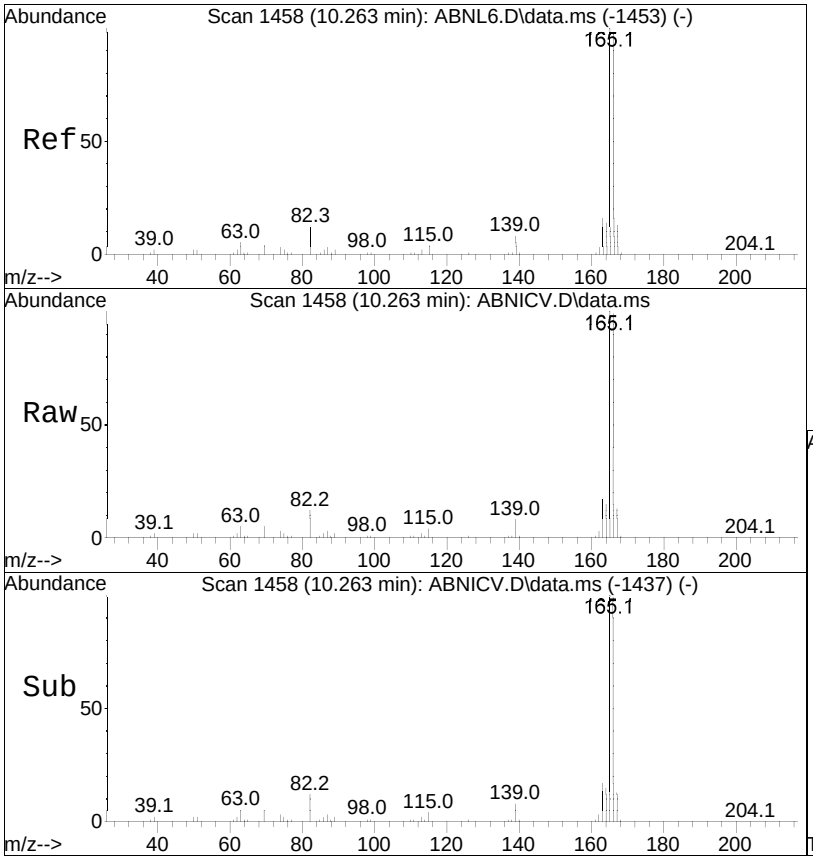


#71
Diethyl phthalate
Concen: 5.50 ug/ml
RT: 10.192 min Scan# 1446
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:149 Resp: 198362

Ion	Ratio	Lower	Upper
149	100		
177	22.0	16.1	24.1
150	12.1	9.4	14.2

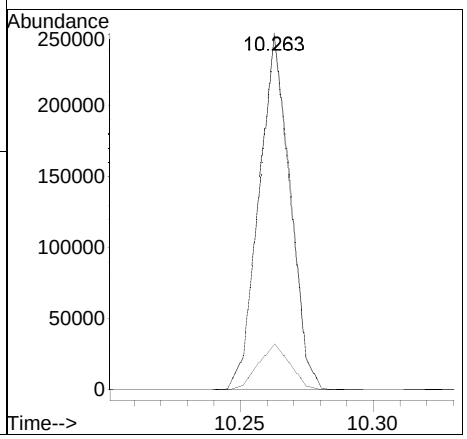


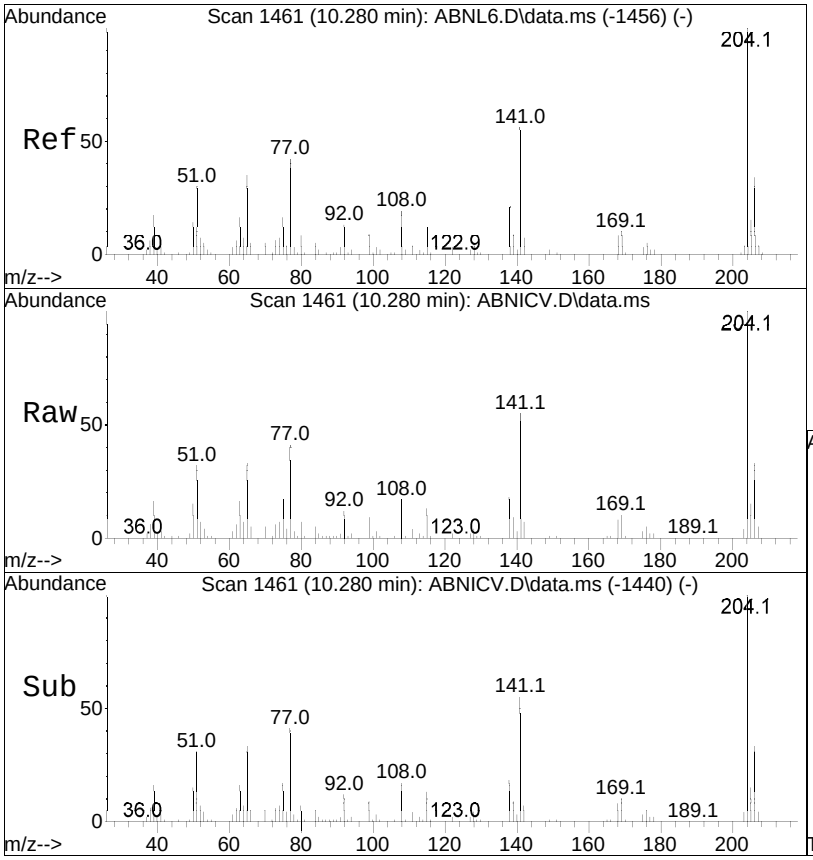


#72
Fluorene
Concen: 5.47 ug/ml
RT: 10.263 min Scan# 1458
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:166 Resp: 201378

Ion	Ratio	Lower	Upper
166	100		
165	102.2	76.2	114.2
167	13.7	10.6	15.8

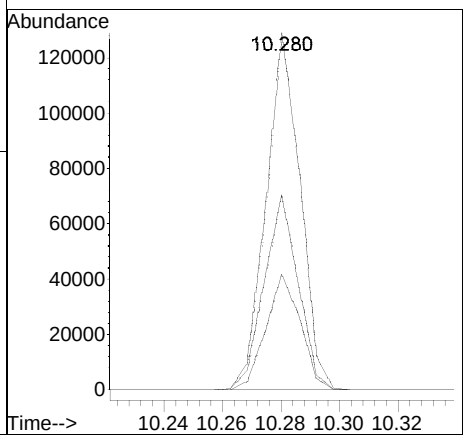


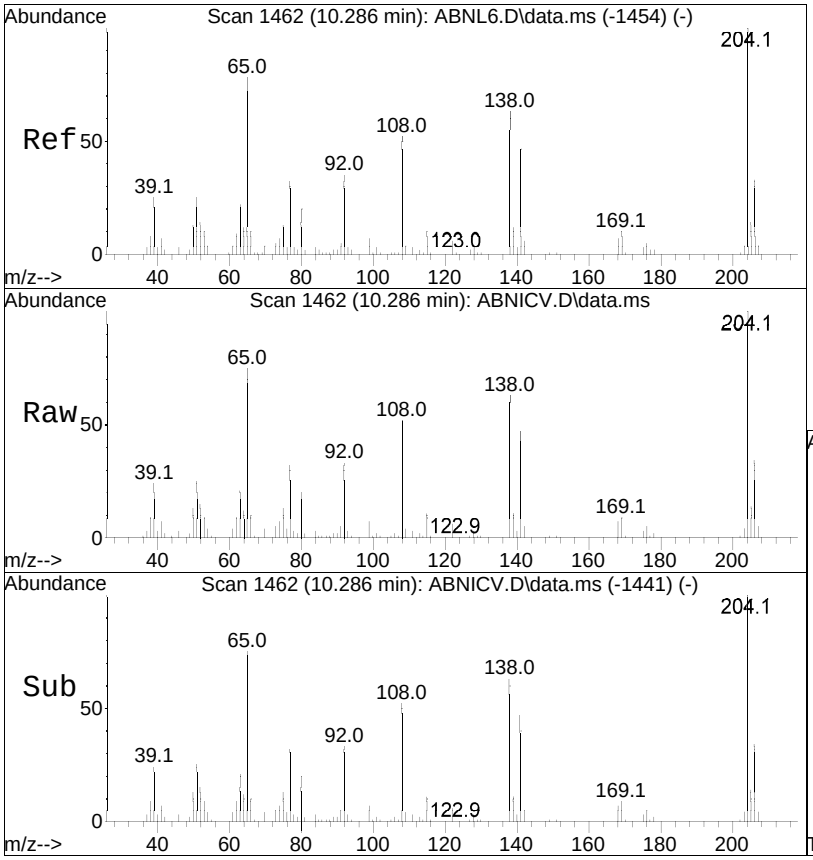


#73
4-Chlorophenyl phenyl ether
Concen: 5.52 ug/ml
RT: 10.280 min Scan# 1461
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:204 Resp: 102835

Ion	Ratio	Lower	Upper
204	100		
206	33.0	25.8	38.6
141	54.9	53.6	80.4

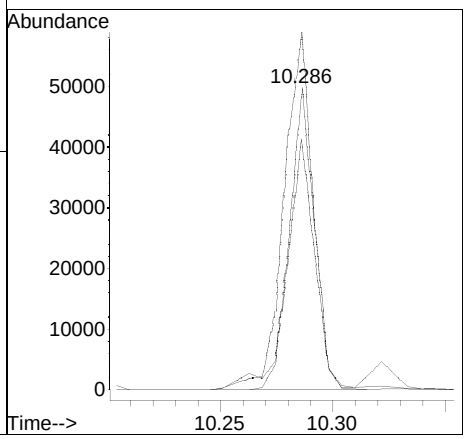


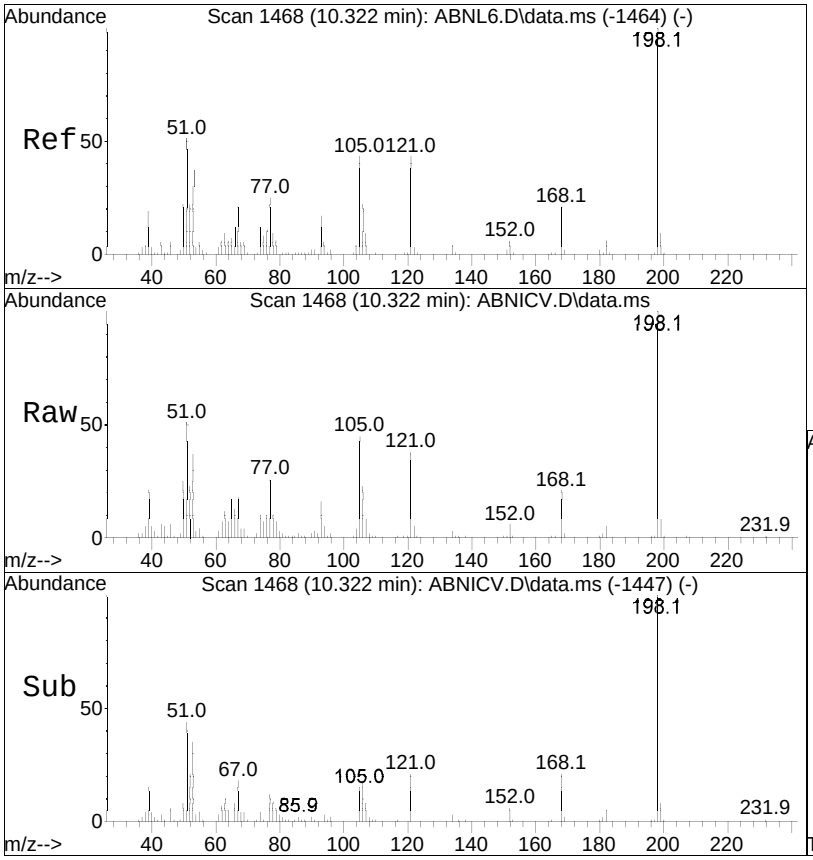


#74
4-Nitroaniline
Concen: 5.57 ug/ml
RT: 10.286 min Scan# 1462
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:138 Resp: 40513

Ion	Ratio	Lower	Upper
138	100		
108	82.3	52.1	78.1#
65	129.8	115.0	172.6

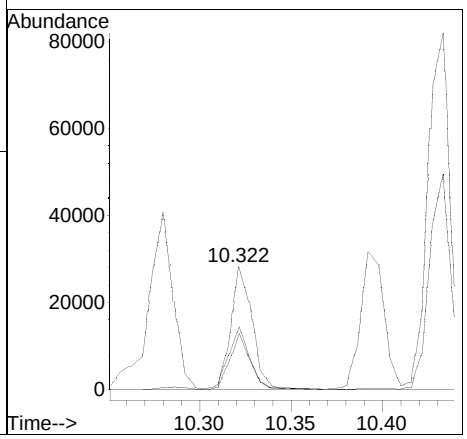


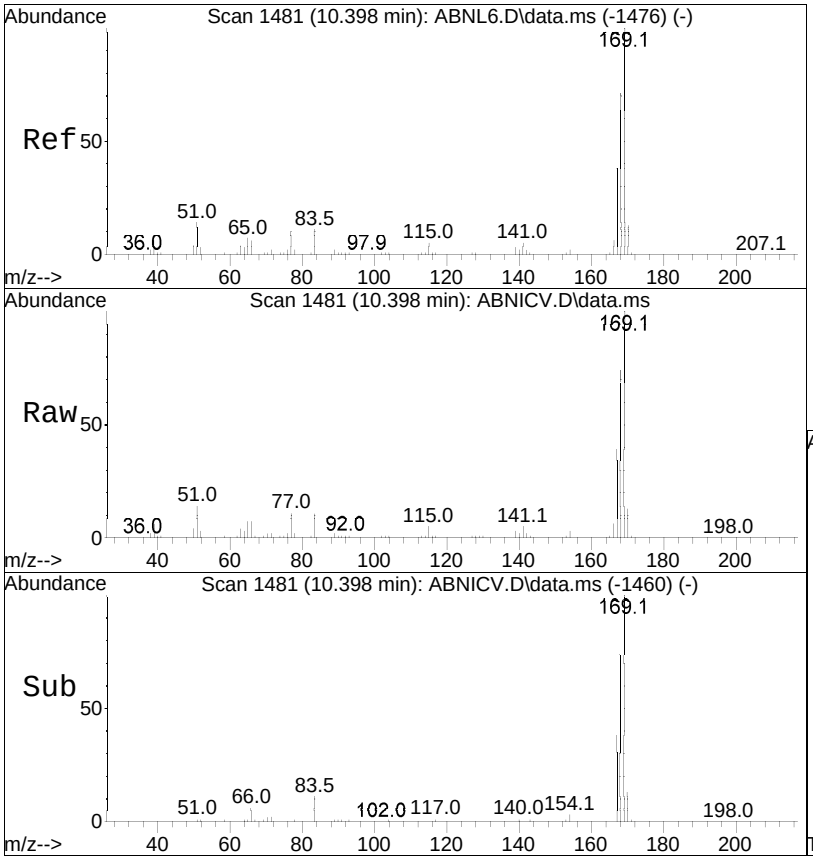


#75
4,6-Dinitro-o-cresol
Concen: 4.23 ug/ml
RT: 10.322 min Scan# 1468
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:198 Resp: 23532

Ion	Ratio	Lower	Upper
198	100		
51	48.4	76.0	114.0#
105	43.6	45.6	68.4#

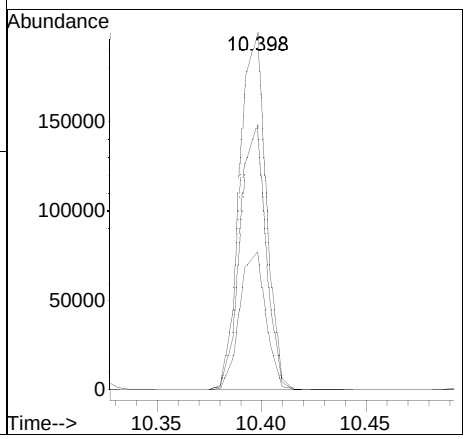


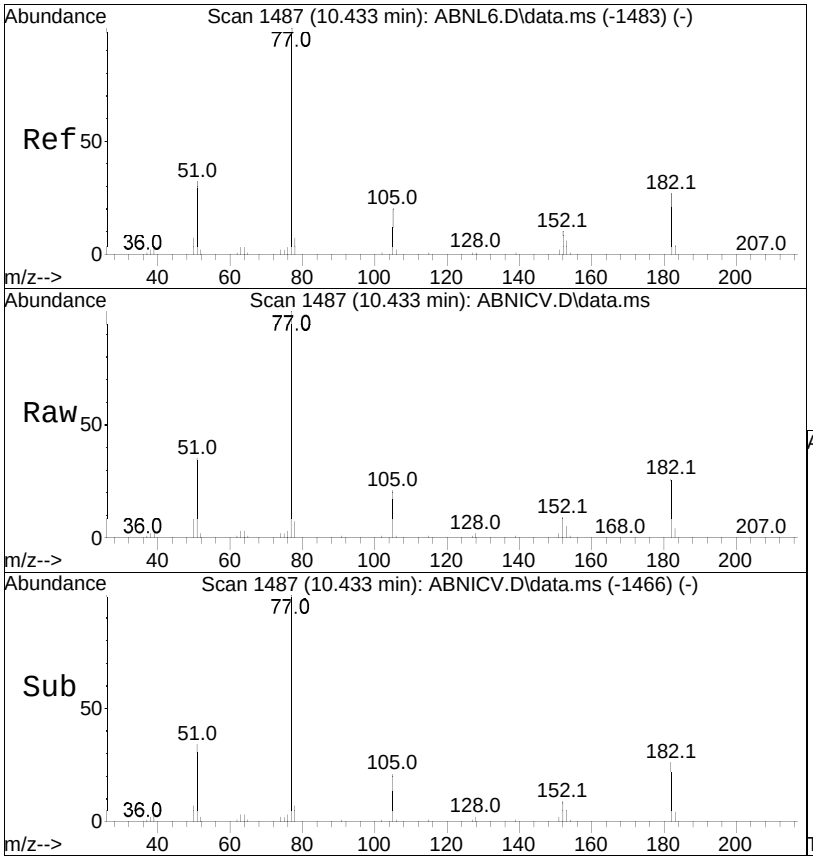


#76
NDPA/DPA
Concen: 5.59 ug/ml
RT: 10.398 min Scan# 1481
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:169 Resp: 175362

Ion	Ratio	Lower	Upper
169	100		
168	72.6	54.0	81.0
167	38.7	28.6	42.8

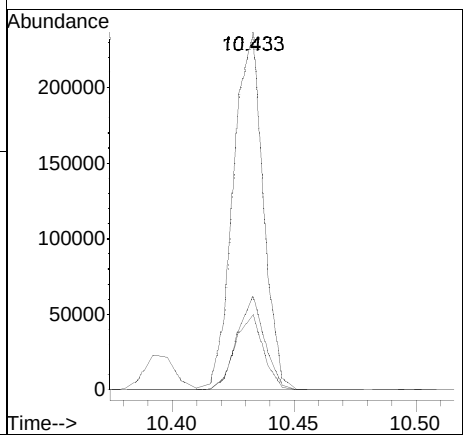


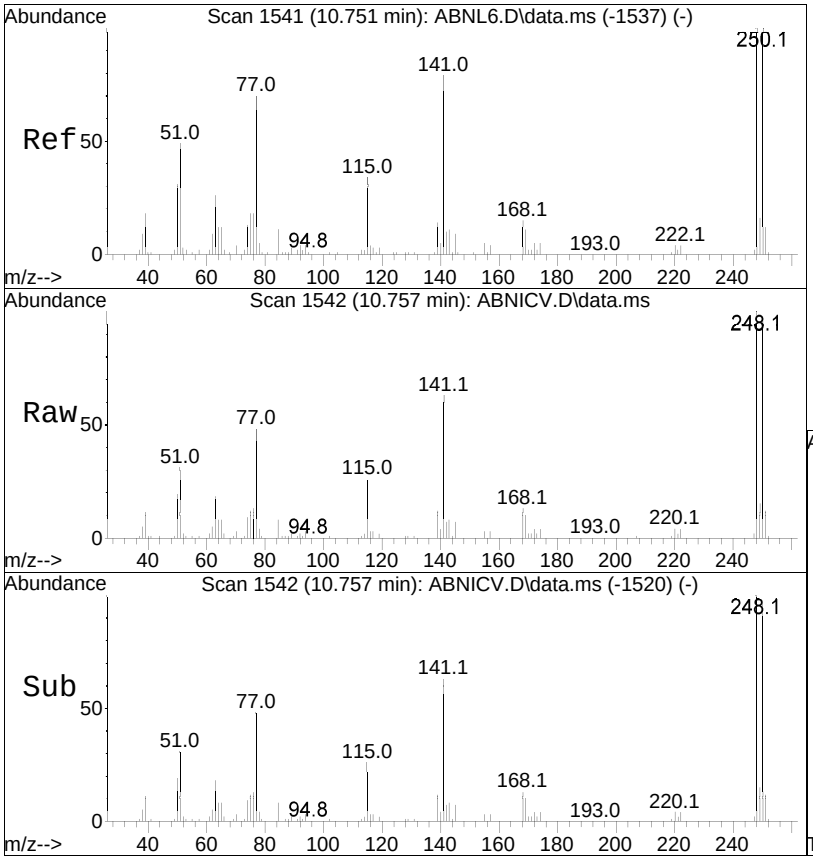


#77
Azobenzene
Concen: 5.72 ug/ml
RT: 10.433 min Scan# 1487
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 77 Resp: 199756

Ion	Ratio	Lower	Upper
77	100		
182	24.5	17.4	26.2
105	20.3	15.4	23.2

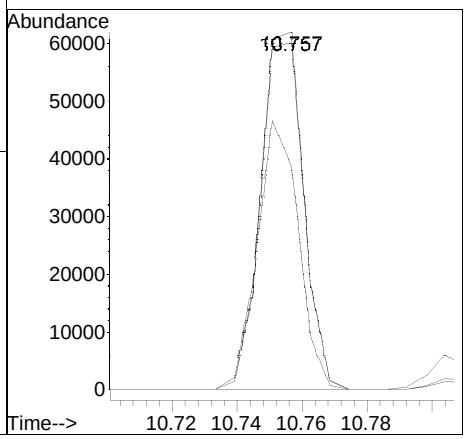


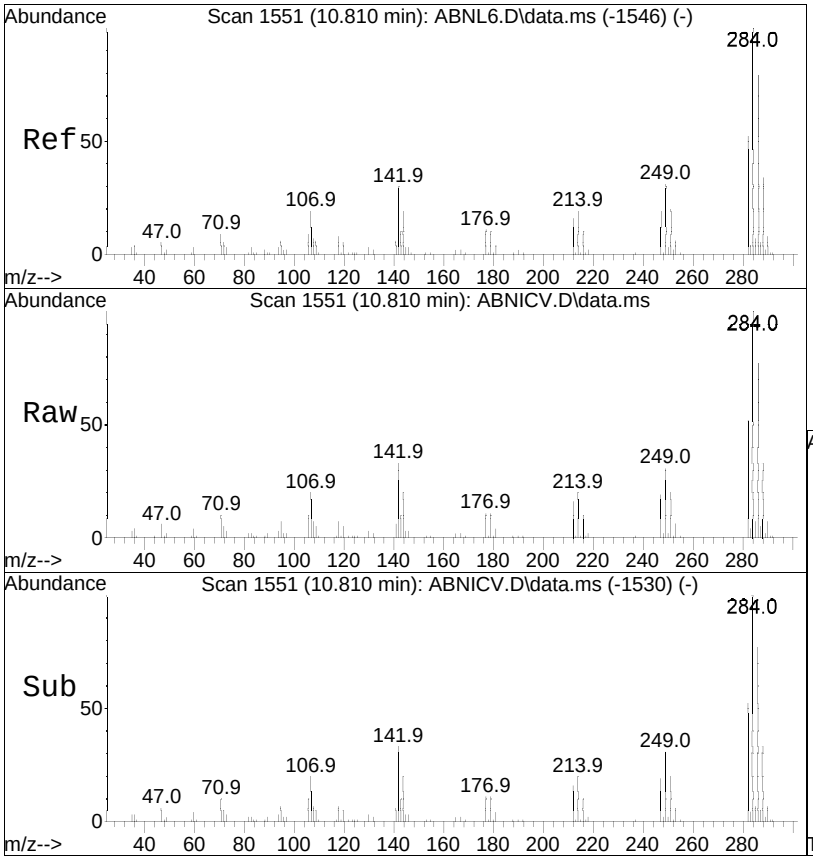


#79
4-Bromophenyl phenyl ether
Concen: 5.43 ug/ml
RT: 10.757 min Scan# 1542
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:248 Resp: 56638

Ion	Ratio	Lower	Upper
248	100		
141	71.9	76.6	114.8#
250	97.4	77.3	115.9

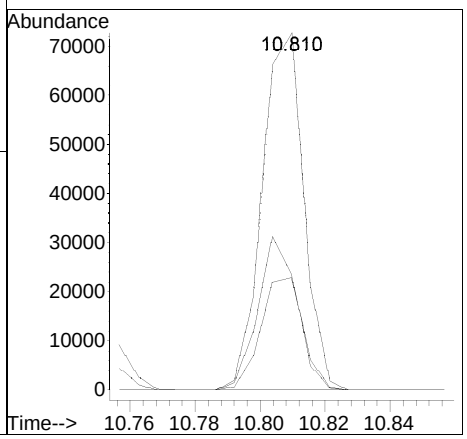


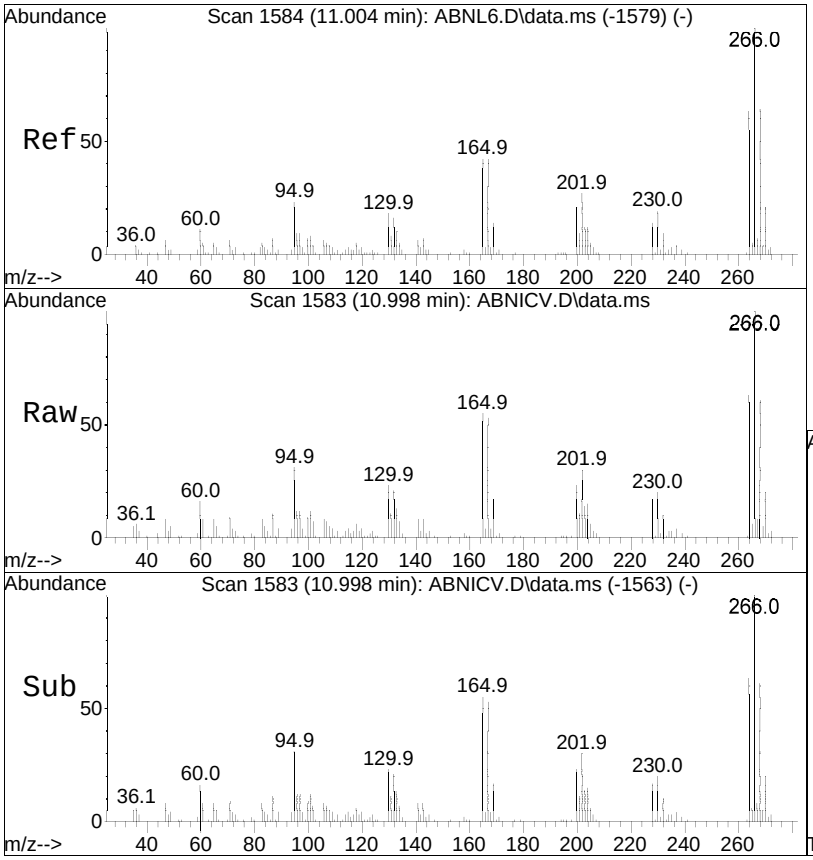


#80
Hexachlorobenzene
Concen: 5.39 ug/ml
RT: 10.810 min Scan# 1551
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:284 Resp: 64431

Ion	Ratio	Lower	Upper
284	100		
142	40.3	41.9	62.9#
249	32.3	24.1	36.1

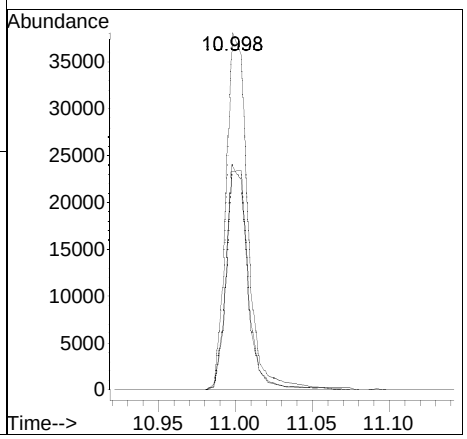


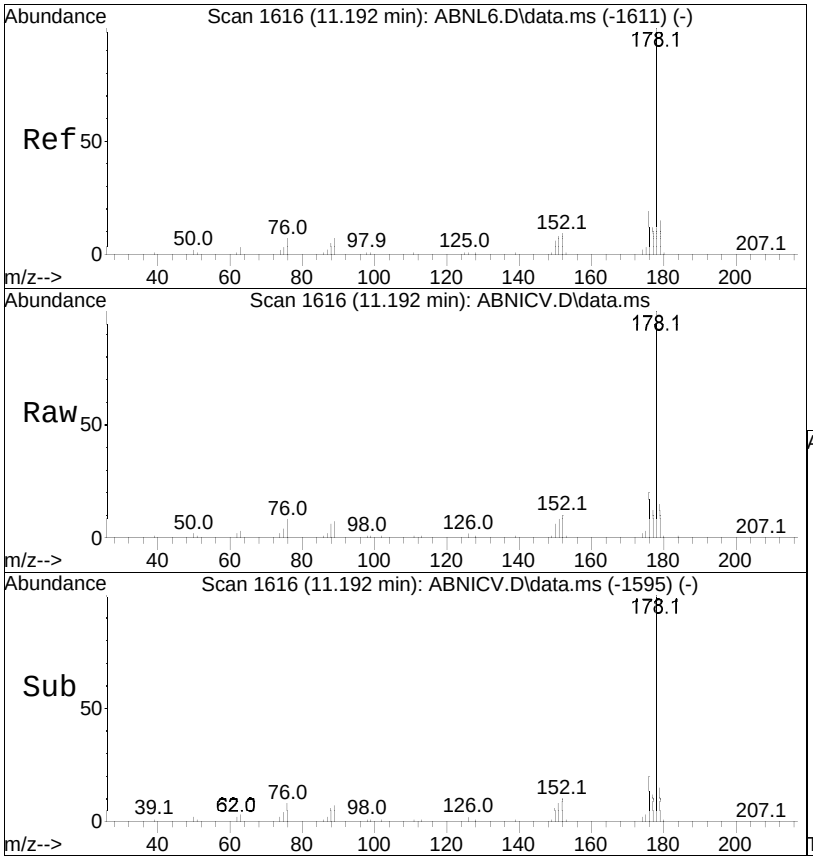


#81
Pentachlorophenol
Concen: 5.36 ug/ml
RT: 10.998 min Scan# 1583
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:266 Resp: 37359

Ion	Ratio	Lower	Upper
266	100		
264	62.2	49.7	74.5
268	62.8	50.5	75.7

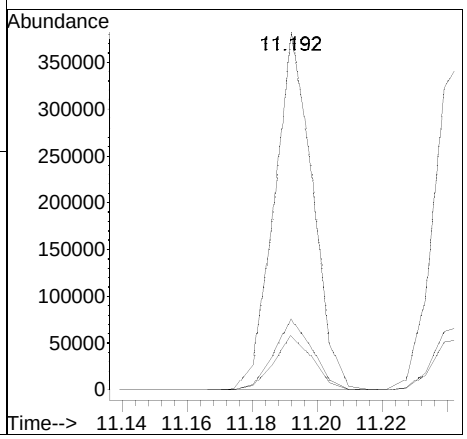


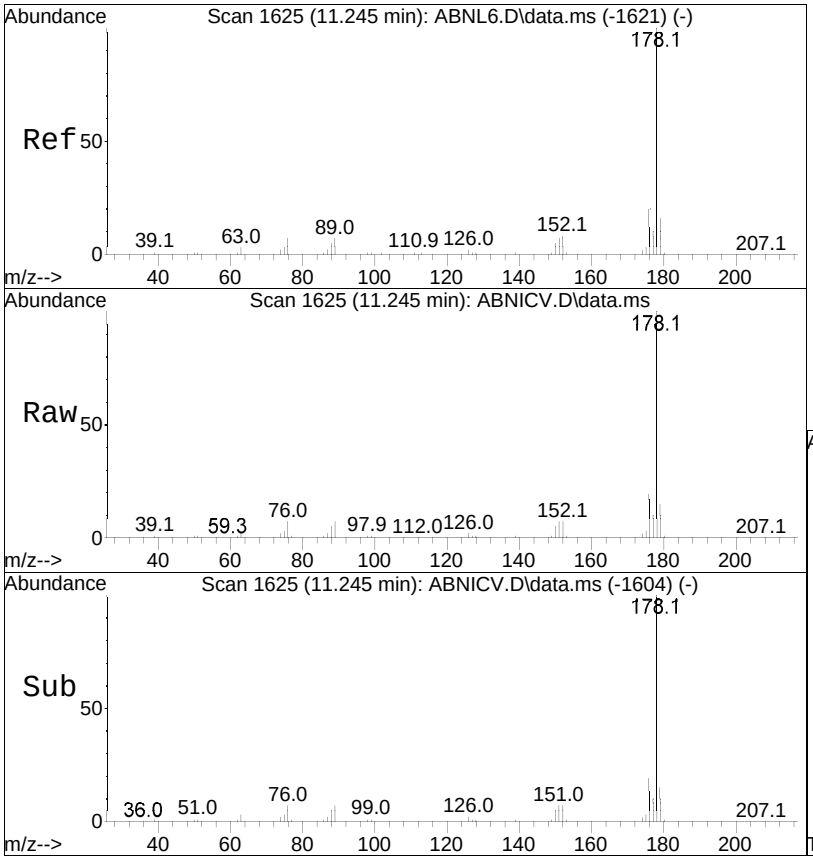


#88
Phenanthrene
Concen: 5.28 ug/ml
RT: 11.192 min Scan# 1616
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:178 Resp: 311941

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.2	18.2
176	19.8	15.4	23.2

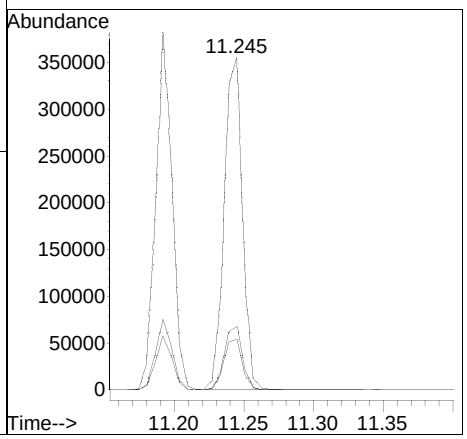


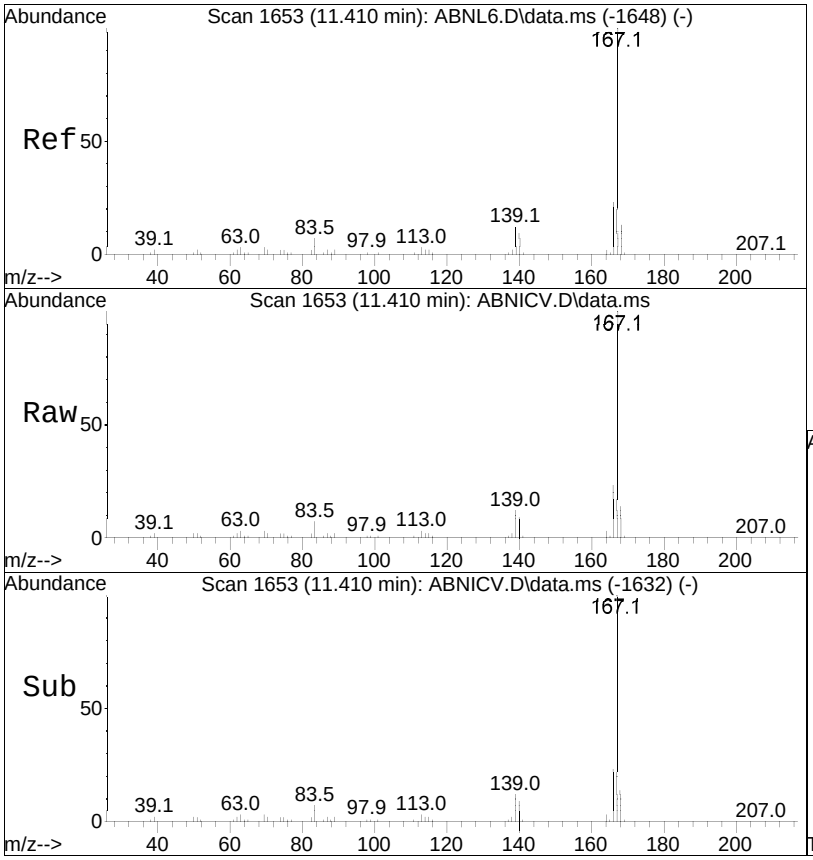


#89
Anthracene
Concen: 5.52 ug/ml
RT: 11.245 min Scan# 1625
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:178 Resp: 323617

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.0	18.0
176	19.2	14.6	22.0

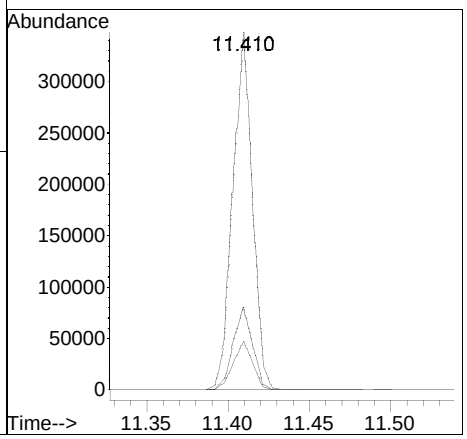


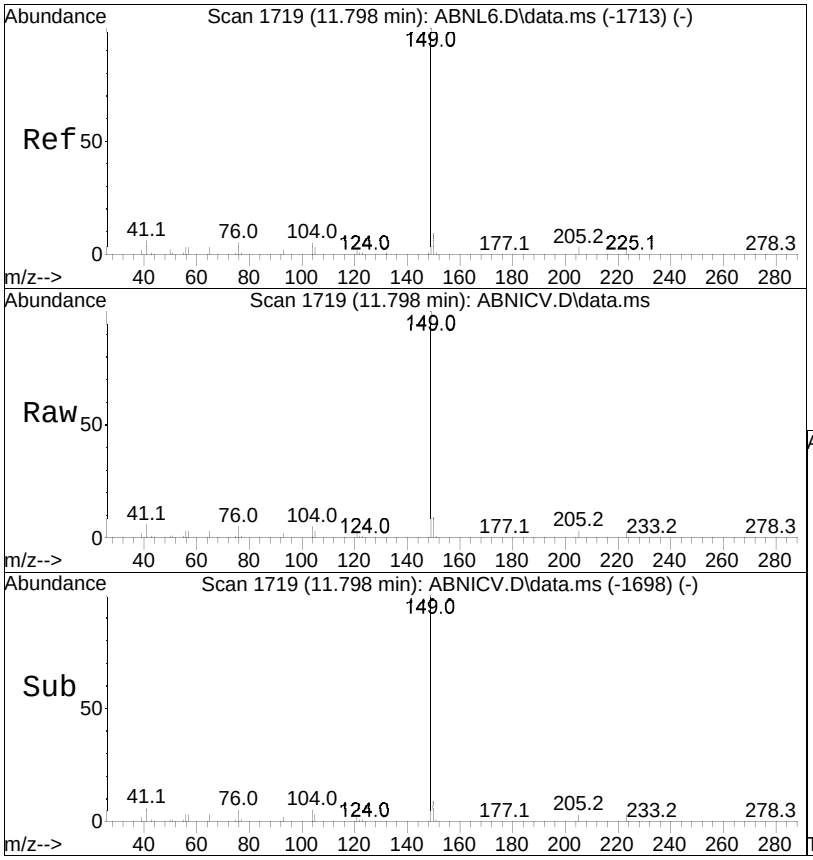


#90
Carbazole
Concen: 5.45 ug/ml
RT: 11.410 min Scan# 1653
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:167 Resp: 287846

Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.6	15.8
166	23.0	17.4	26.0

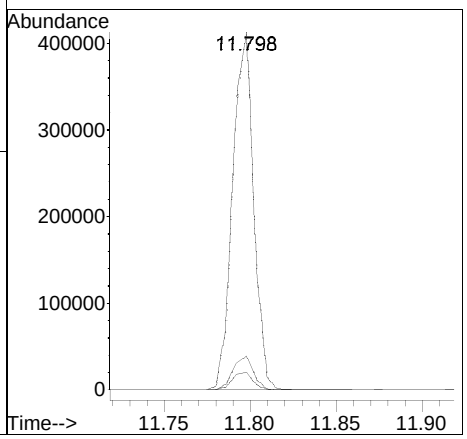


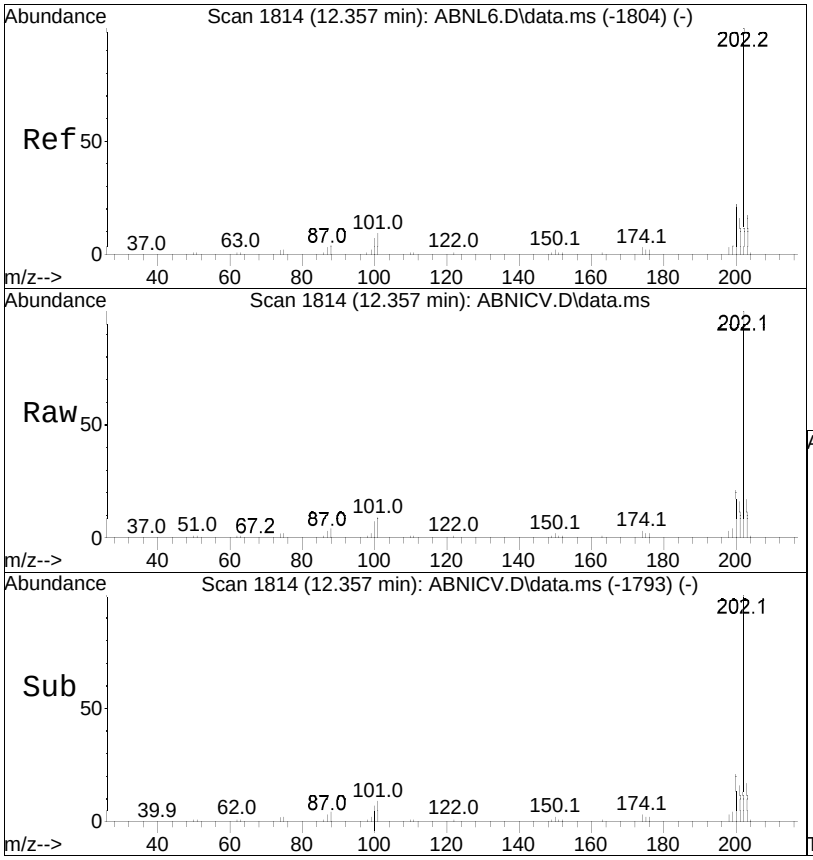


#91
Di-n-butylphthalate
Concen: 5.55 ug/ml
RT: 11.798 min Scan# 1719
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:149 Resp: 343566

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.0	10.6
104	5.0	4.5	6.7

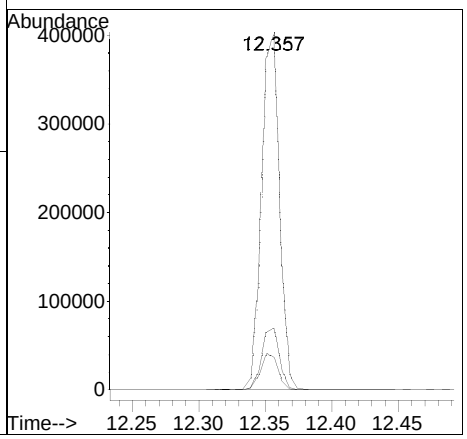


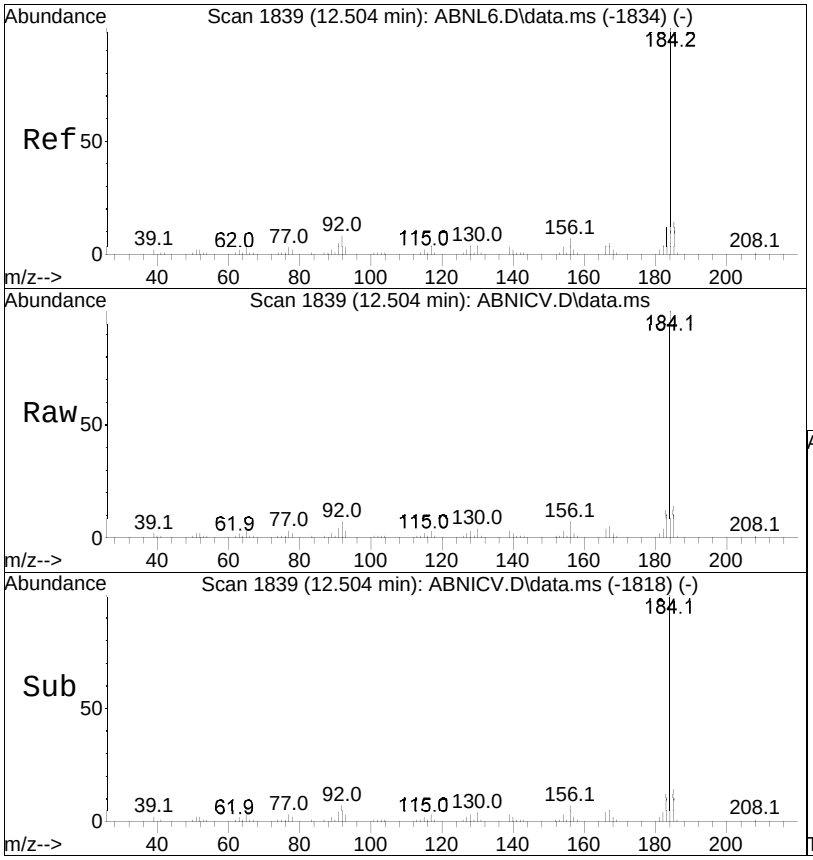


#92
Fluoranthene
Concen: 5.51 ug/ml
RT: 12.357 min Scan# 1814
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:202 Resp: 371982

Ion	Ratio	Lower	Upper
202	100		
101	10.2	13.5	20.3#
203	17.4	13.6	20.4

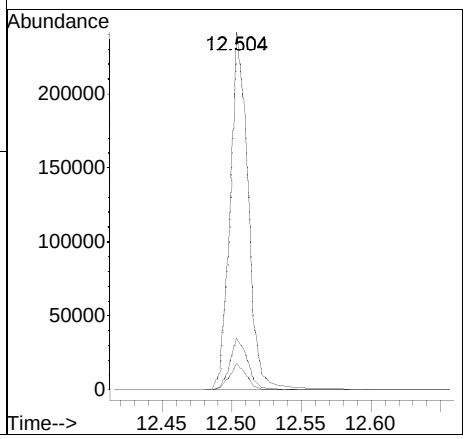


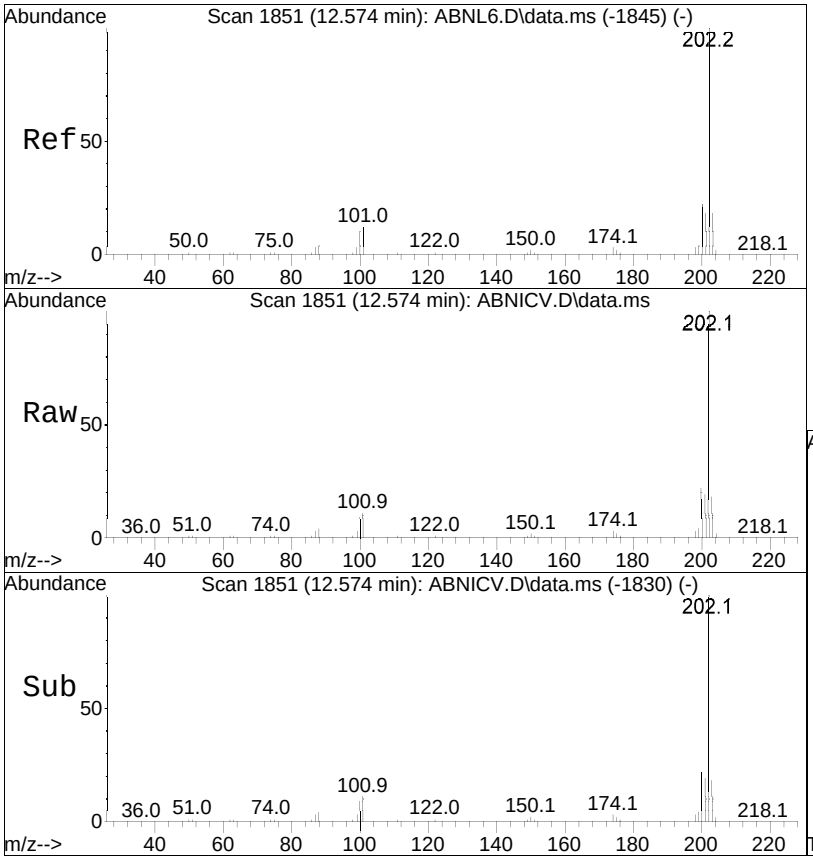


#93
Benzidine
Concen: 5.23 ug/ml
RT: 12.504 min Scan# 1839
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:184 Resp: 214564

Ion	Ratio	Lower	Upper
184	100		
92	7.1	9.1	13.7#
185	14.5	11.1	16.7

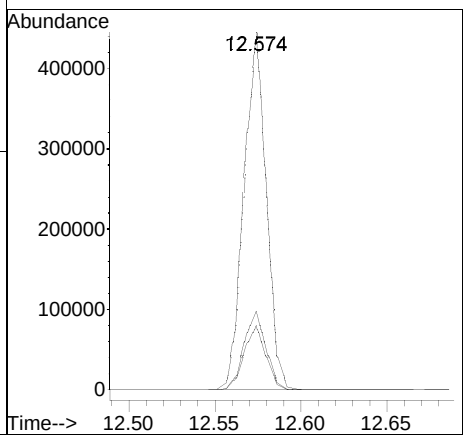


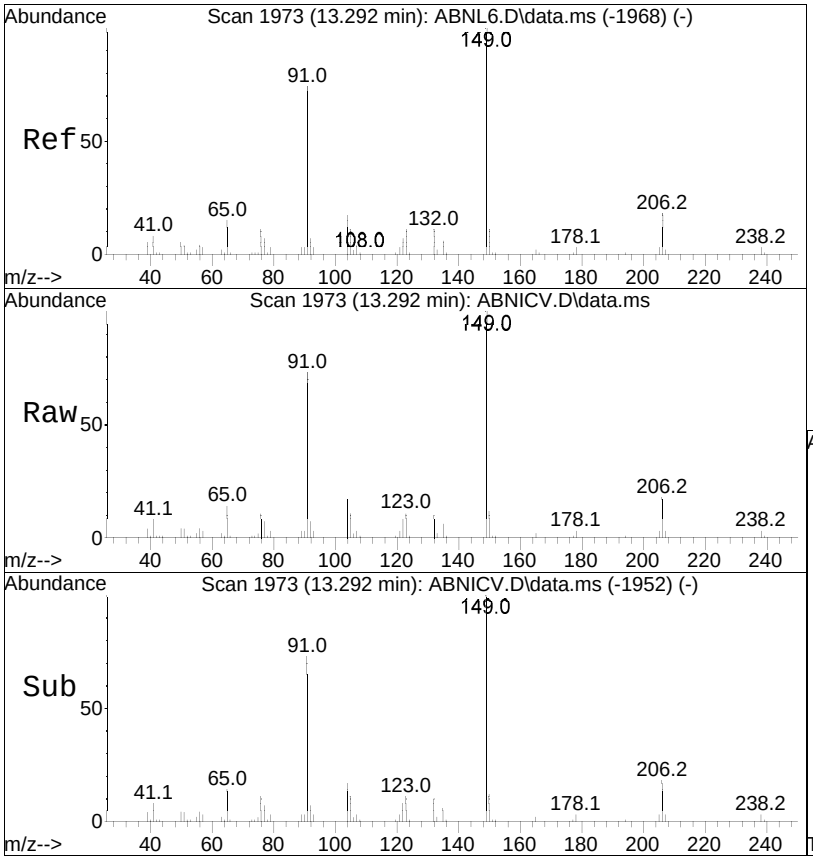


#94
Pyrene
Concen: 5.49 ug/ml
RT: 12.574 min Scan# 1851
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:202 Resp: 396732

Ion	Ratio	Lower	Upper
202	100		
200	21.7	16.7	25.1
203	17.6	14.2	21.4

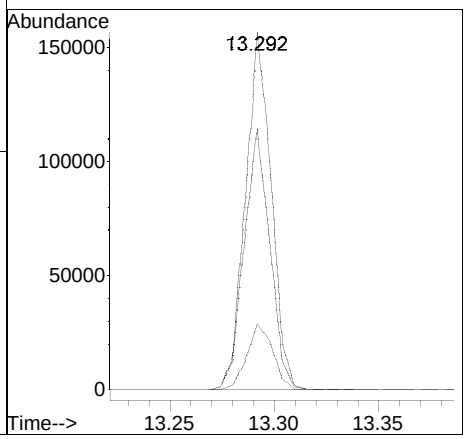


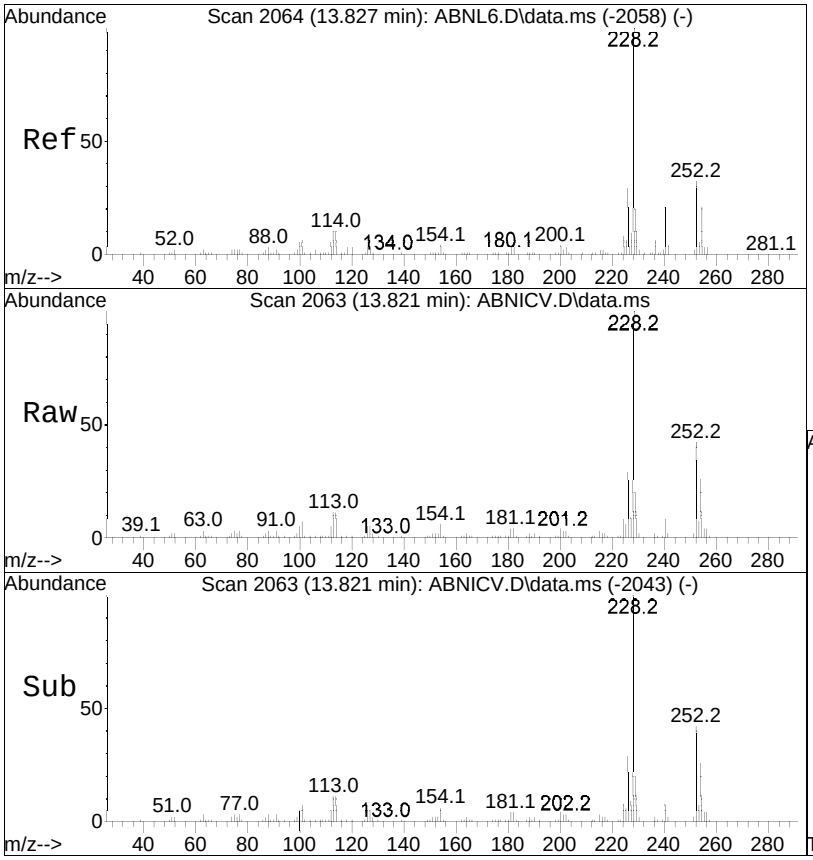


#96
Butyl benzyl phthalate
Concen: 4.56 ug/ml
RT: 13.292 min Scan# 1973
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:149 Resp: 132785

Ion	Ratio	Lower	Upper
149	100		
91	73.3	63.3	94.9
206	18.7	13.9	20.9

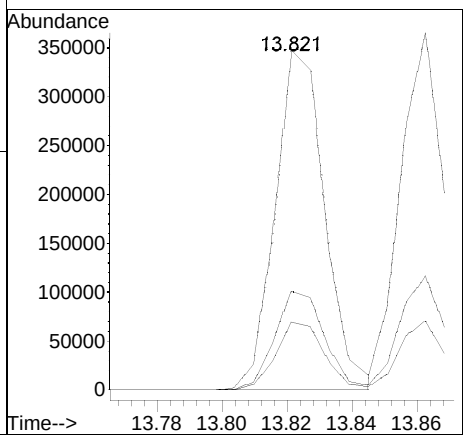


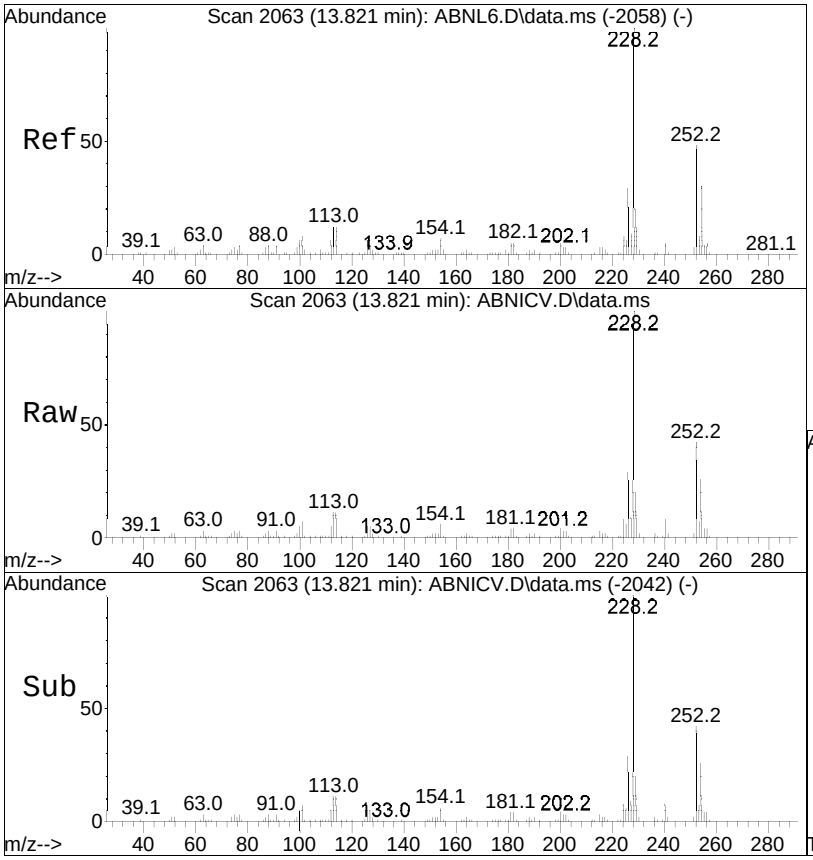


#104
Benzo(a)anthracene
Concen: 5.46 ug/ml
RT: 13.821 min Scan# 2063
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:228 Resp: 366917

Ion	Ratio	Lower	Upper
228	100		
226	29.4	22.2	33.4
229	19.8	15.6	23.4

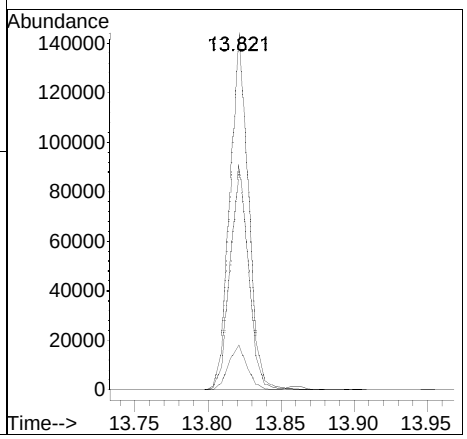


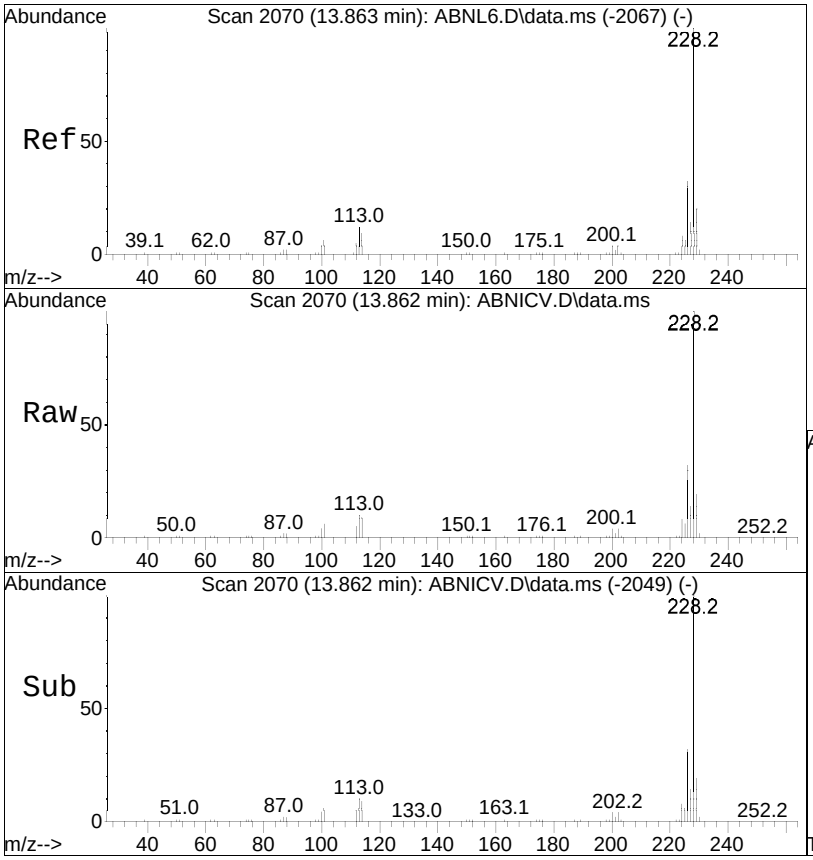


#105
3,3'-Dichlorobenzidine
Concen: 5.81 ug/ml
RT: 13.821 min Scan# 2063
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:252 Resp: 125706

Ion	Ratio	Lower	Upper
252	100		
126	13.0	14.5	21.7#
254	63.1	51.2	76.8

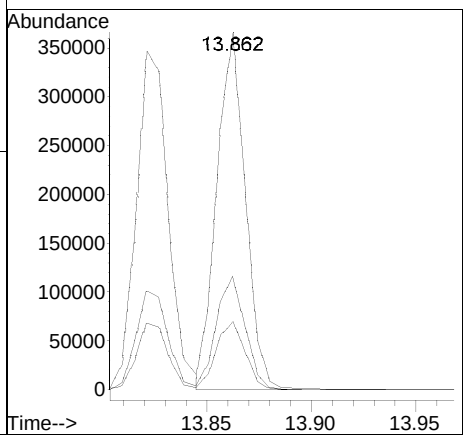


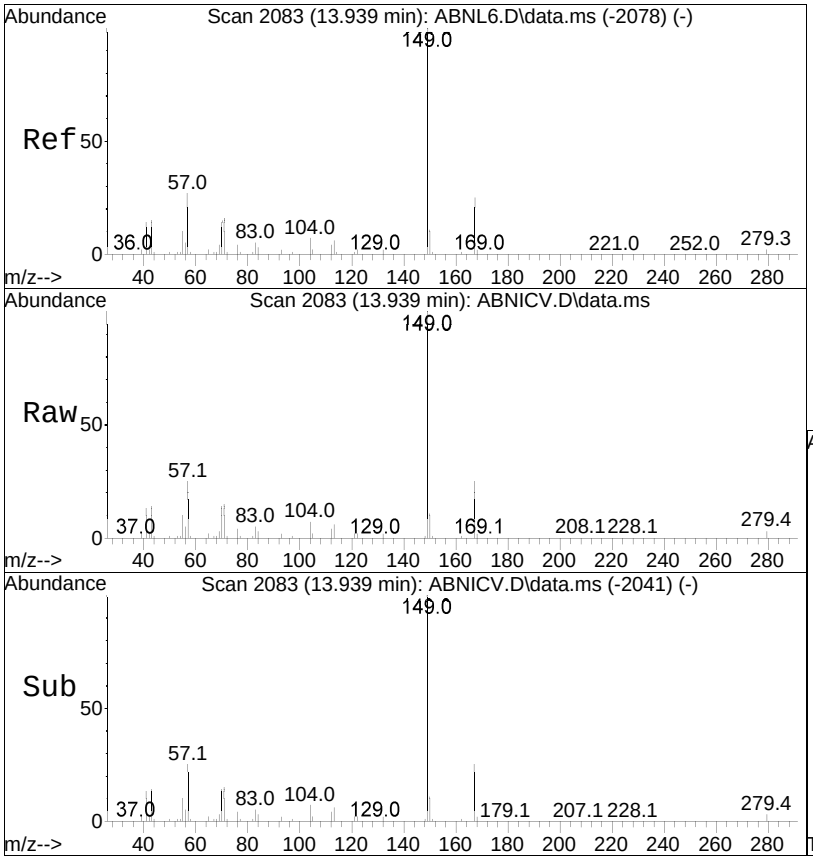


#106
Chrysene
Concen: 5.42 ug/ml
RT: 13.862 min Scan# 2070
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:228 Resp: 347792

Ion	Ratio	Lower	Upper
228	100		
226	32.2	24.0	36.0
229	19.5	15.8	23.8

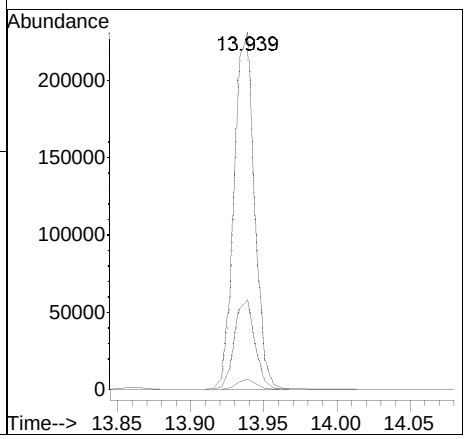


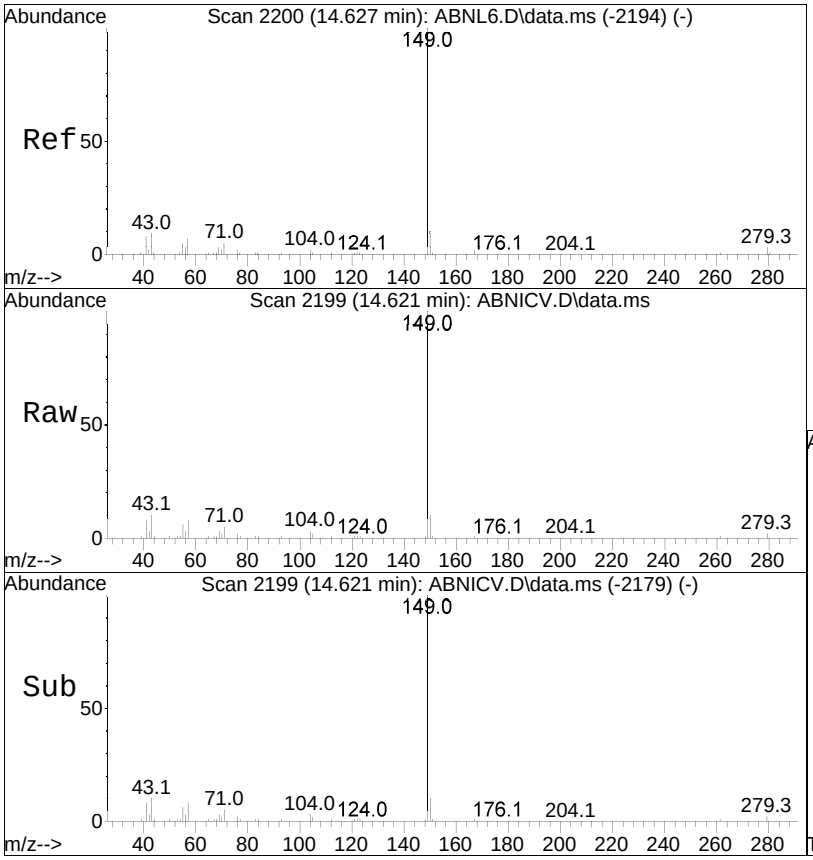


#107
Bis(2-ethylhexyl)phthalate
Concen: 5.14 ug/ml
RT: 13.939 min Scan# 2083
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:149 Resp: 222853

Ion	Ratio	Lower	Upper
149	100		
167	25.1	22.1	33.1
279	2.5	3.0	4.4#

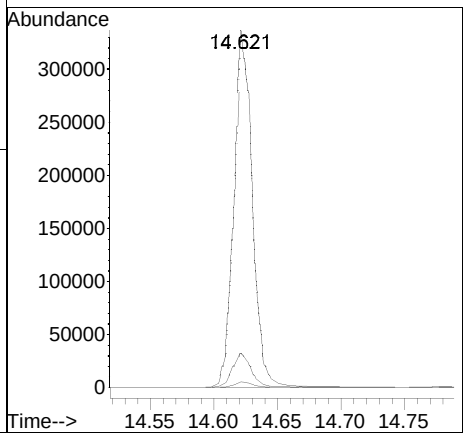


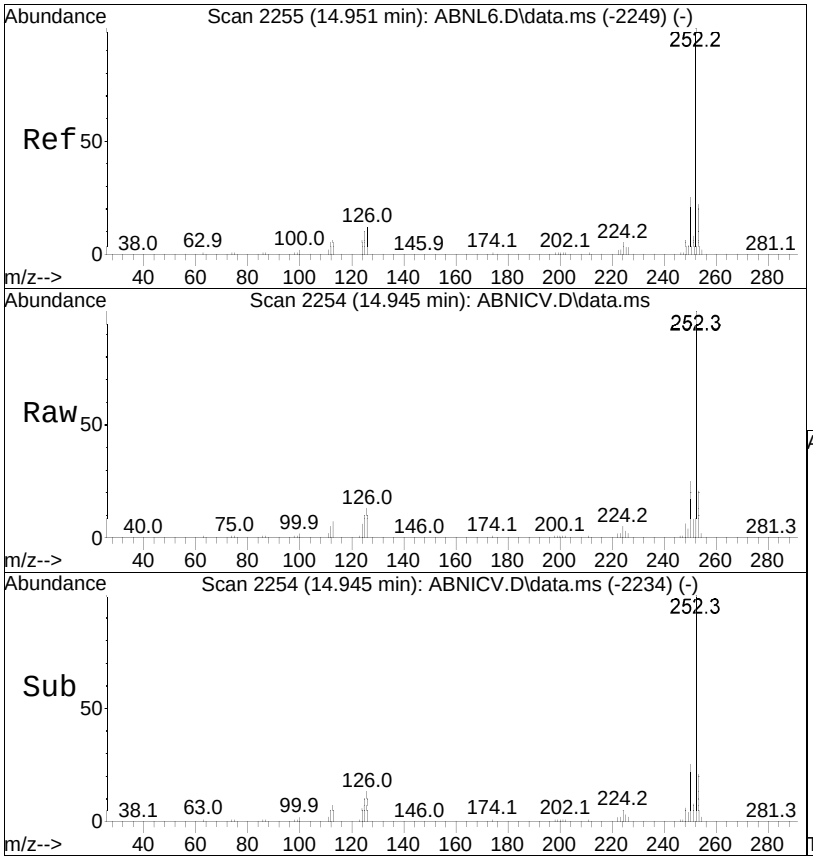


#108
Di-n-octylphthalate
Concen: 4.74 ug/ml
RT: 14.621 min Scan# 2199
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:149 Resp: 332901

Ion	Ratio	Lower	Upper
149	100		
43	10.2	18.8	28.2#
167	1.4	1.3	1.9

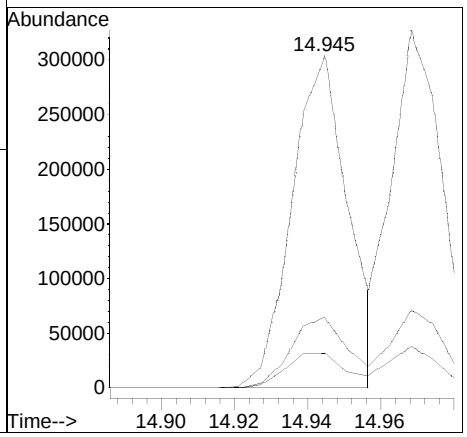


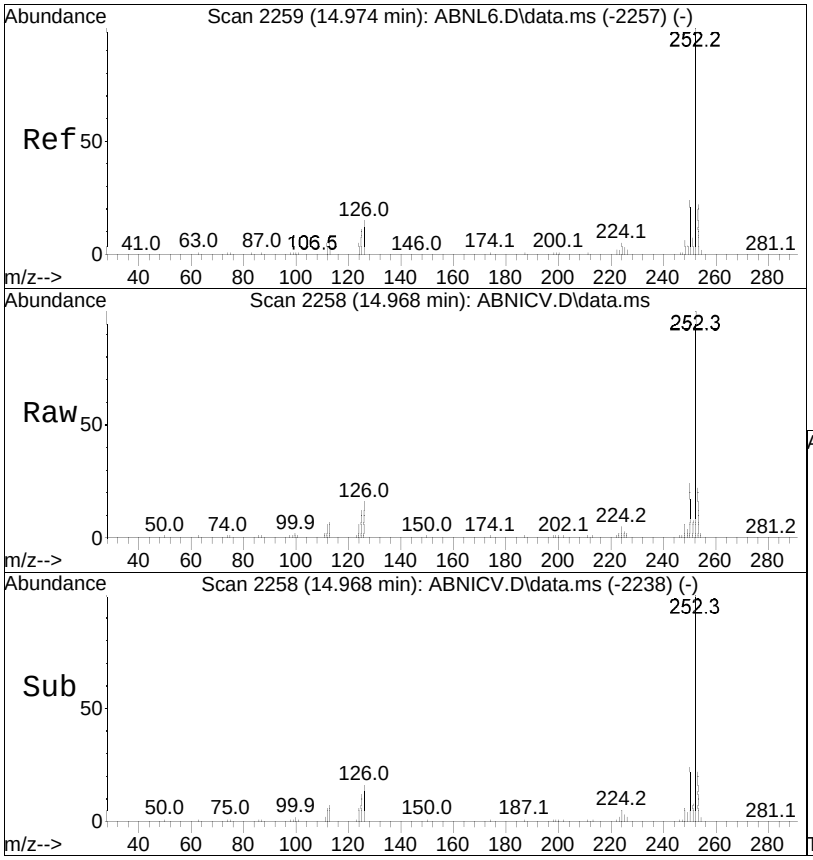


#109
Benzo(b)fluoranthene
Concen: 5.54 ug/ml
RT: 14.945 min Scan# 2254
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:252 Resp: 328567

Ion	Ratio	Lower	Upper
252	100		
125	11.4	13.3	19.9#
253	21.8	17.1	25.7

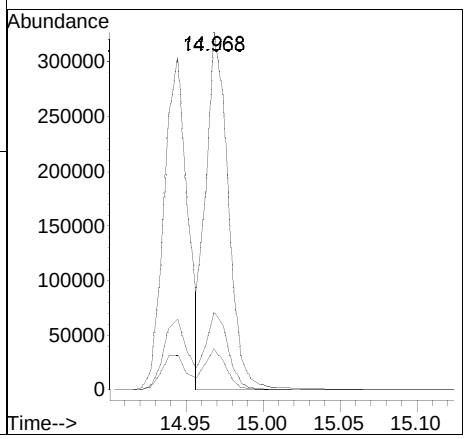


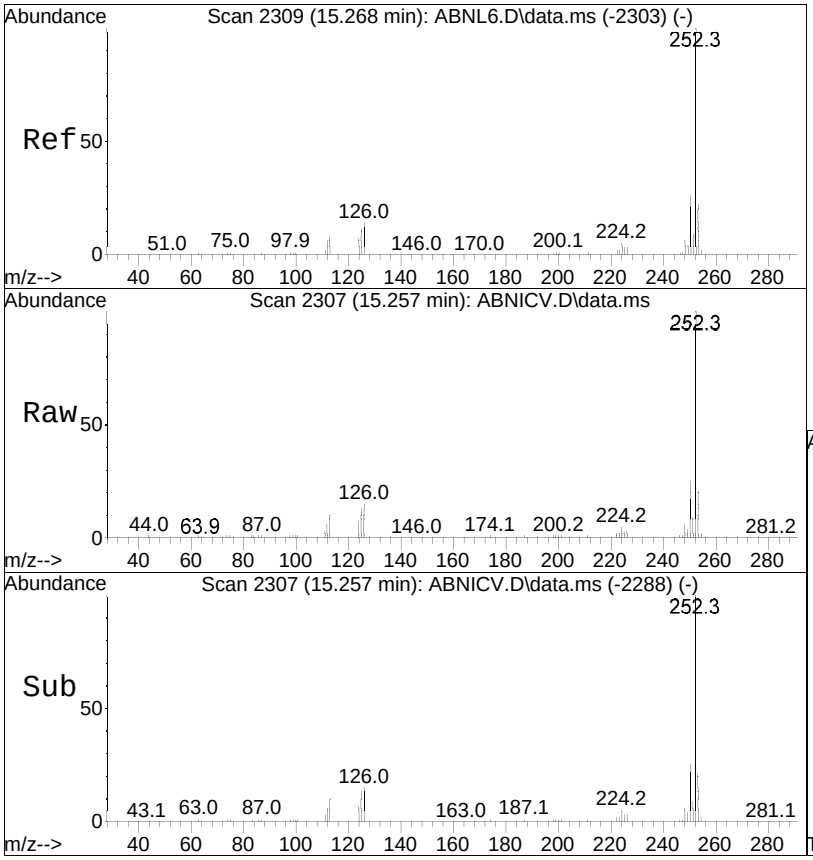


#110
Benzo(k)fluoranthene
Concen: 5.63 ug/ml
RT: 14.968 min Scan# 2258
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:252 Resp: 326553

Ion	Ratio	Lower	Upper
252	100		
125	11.0	13.0	19.6#
253	22.0	16.8	25.2

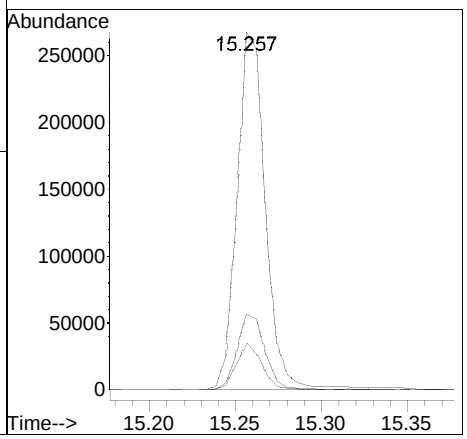


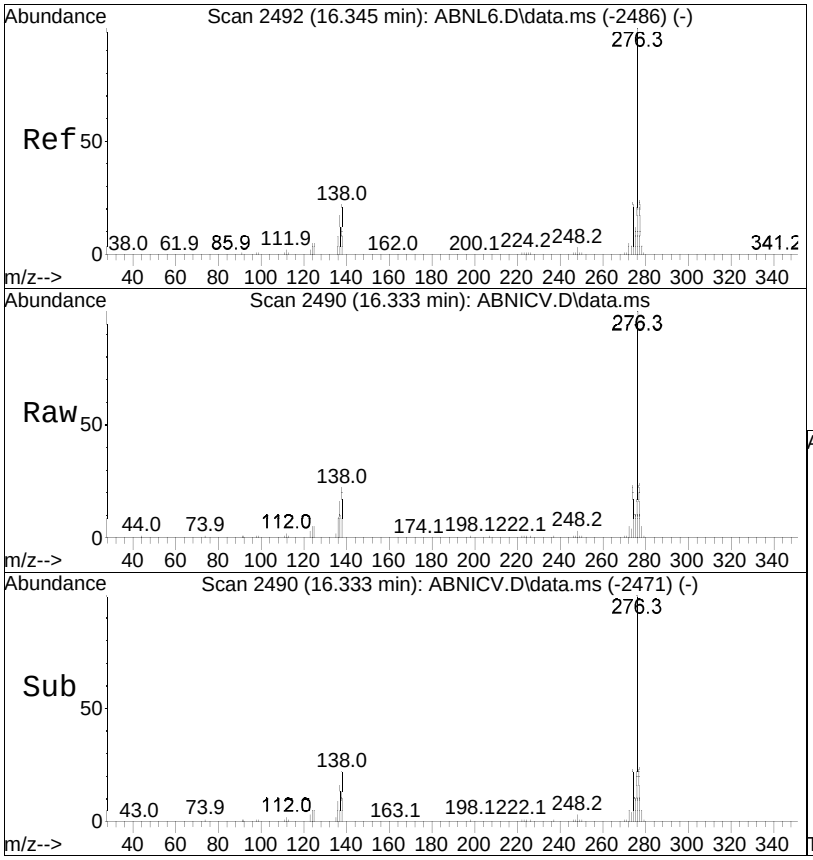


#111
Benzo(a)pyrene
Concen: 5.92 ug/ml
RT: 15.257 min Scan# 2307
Delta R.T. -0.011 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:252 Resp: 305124

Ion	Ratio	Lower	Upper
252	100		
125	11.9	14.2	21.2#
253	20.9	16.9	25.3

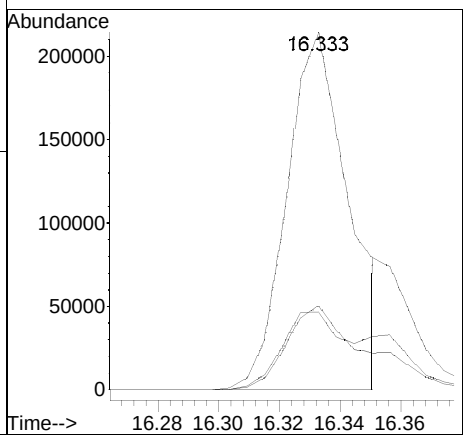


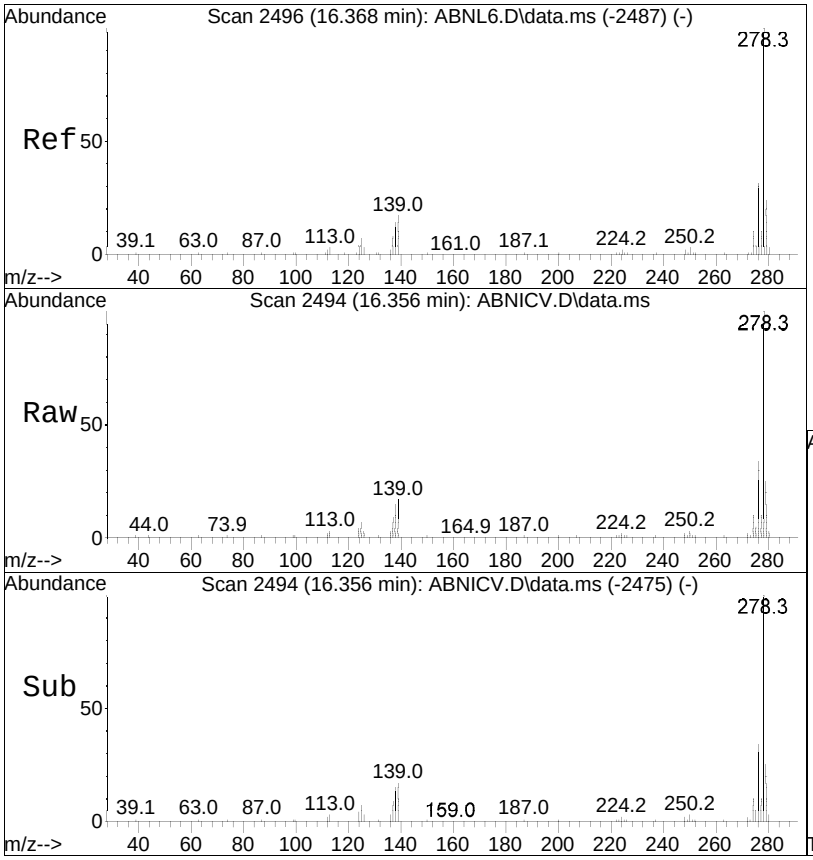


#113
Indeno(1,2,3-cd)pyrene
Concen: 6.28 ug/mL M6
RT: 16.333 min Scan# 2490
Delta R.T. -0.012 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:276 Resp: 303147

Ion	Ratio	Lower	Upper
276	100		
138	34.9	25.1	37.7
277	30.8	18.6	28.0#

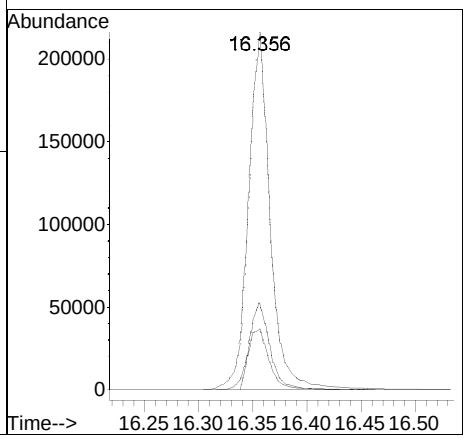


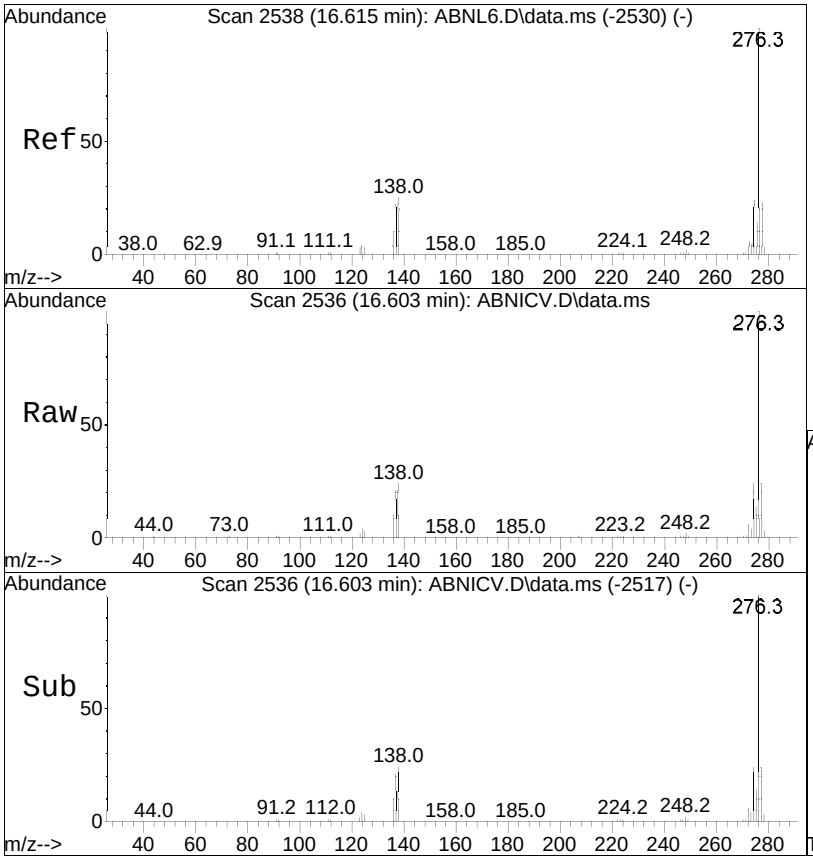


#114
Dibenzo(a,h)anthracene
Concen: 6.18 ug/ml
RT: 16.356 min Scan# 2494
Delta R.T. -0.012 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:278 Resp: 298480

Ion	Ratio	Lower	Upper
278	100		
139	16.6	20.8	31.2#
279	23.8	18.3	27.5

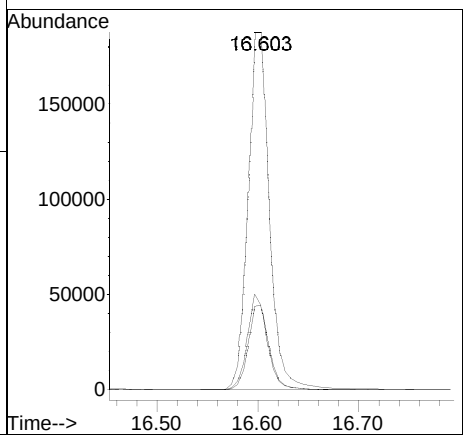




#115
Benzo(ghi)perylene
Concen: 5.79 ug/ml
RT: 16.603 min Scan# 2536
Delta R.T. -0.012 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:276 Resp: 272174

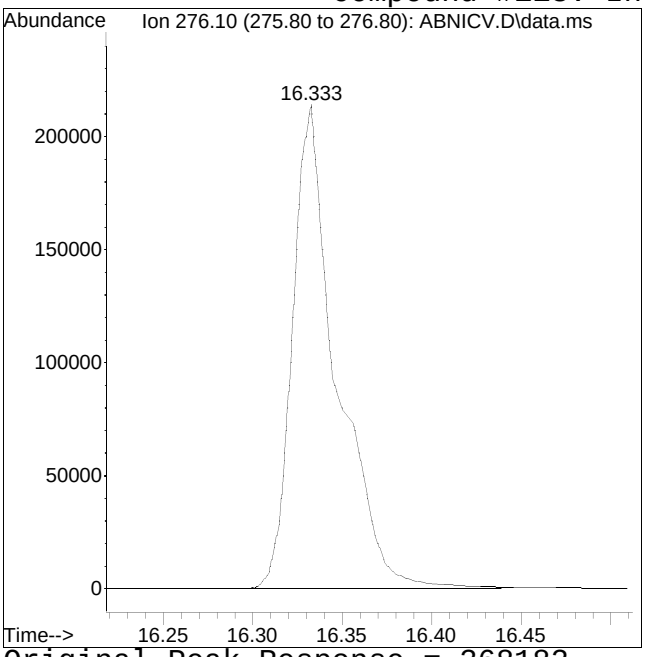
Ion	Ratio	Lower	Upper
276	100		
138	25.4	29.2	43.8#
277	23.6	18.8	28.2



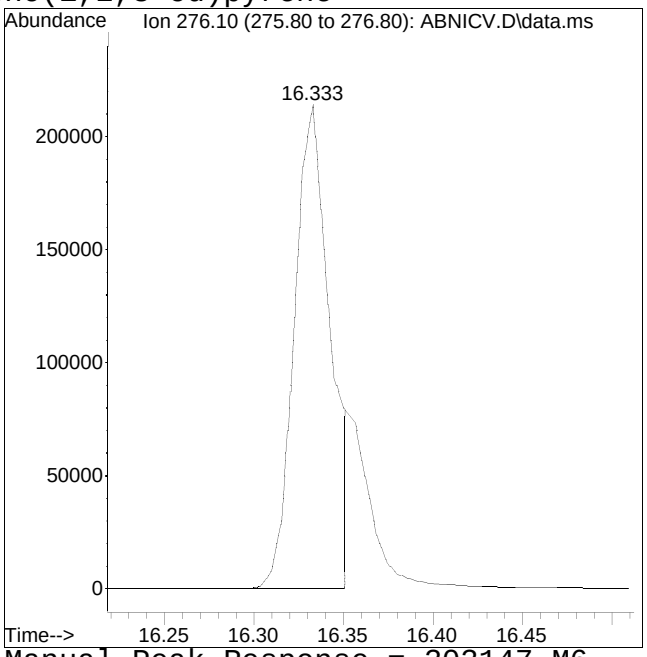
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNICV.D Operator : SV107:jg
Date Inj'd : 6/3/2024 3:14 am Instrument : SV107
Sample : CQICV1,32,,ABNICV Lot# 106 Quant Date : 6/3/2024 4:29 pm

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 368182



Manual Peak Response = 303147 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240602ical\
Data File : AP9ICV.D
Acq On : 3 Jun 2024 3:39 am
Operator : SV107:jg
Sample : CQICV2,32,,AP9ICV Lot# 10689
Misc : WG1929644,,ical
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 03 16:28:36 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	110	0.00
28	T	Benzaldehyde		1.024	0.995	2.8	114	0.00
29	T	Acetophenone		1.770	1.747	1.3	113	0.00
30	T	m-Toluidine		1.599	1.705	-6.6	114	0.00
31	T	2-Chloroaniline		1.546	1.533	0.8	112	0.00
54	I	IS2_Naphthalene-d8		1.000	1.000	0.0	104	0.00
55	T	a-Terpineol		0.276	0.276	0.0	111	0.00
56	T	3-Chloroaniline		0.147	0.150	-2.0	112	0.00
57	T	2,6-Dichlorophenol		0.290	0.299	-3.1	111	0.00
58	T	1-chloro-2-nitrobenzene		0.121	0.125	-3.3	117	0.00
59	T	Caprolactam		0.149	0.146	2.0	107	0.00
60	T	1,2,4,5-Tetrachlorobenzene		0.402	0.394	2.0	111	0.00
61	T	Biphenyl		0.929	0.909	2.2	111	0.00
82	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	109	0.00
83	T	Dichloran	*	5.000	4.676	6.5	120	0.00
84	T	Pentachloronitrobenzene	*	5.000	4.804	3.9	116	0.00
97	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	105	0.00
98	T	Diphenamid		0.445	0.474	-6.5	114	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9ICV.D
Acq On : 3 Jun 2024 3:39 am
Operator : SV107:jg
Sample : CQICV2,32,,AP9ICV Lot# 10689
Misc : WG1929644,,ical
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 03 16:28:36 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.534	152	48775	4.000	ug/ml		0.00
Standard Area 3 = 44406			Recovery = 109.84%				
54) IS2_Naphthalene-d8	7.957	136	176755	4.000	ug/ml		0.00
Standard Area 3 = 169580			Recovery = 104.23%				
82) IS2_Acenaphthene-d10	9.728	164	108771	4.000	ug/ml		0.00
Standard Area 3 = 99848			Recovery = 108.94%				
97) IS2_Phenanthrene-d10	11.169	188	224732	4.000	ug/ml	#	0.00
Standard Area 3 = 214959			Recovery = 104.55%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.963	105	60668	4.860	ug/ml		98
29) Acetophenone	7.022	105	106516	4.935	ug/ml	#	83
30) m-Toluidine	7.122	106	103936	5.330	ug/ml		94
31) 2-Chloroaniline	7.528	127	93473	4.957	ug/ml	#	93
55) a-Terpineol	8.022	59	60976	4.992	ug/ml	#	78
56) 3-Chloroaniline	8.034	65	33250	5.106	ug/ml		88
57) 2,6-Dichlorophenol	8.063	162	66015	5.153	ug/ml	#	87
58) 1-chloro-2-nitrobenzene	8.334	111	27611	5.157	ug/ml	#	1
59) Caprolactam	8.369	55	32169	4.882	ug/ml	#	68
60) 1,2,4,5-Tetrachloroben...	8.869	216	87005	4.897	ug/ml		96
61) Biphenyl	9.175	154	200775	4.891	ug/ml		100
83) Dichloran	10.863	206	16902	4.676	ug/ml	#	75
84) Pentachloronitrobenzene	11.016	237	19356	4.804	ug/ml	#	84
98) Diphenamid	12.074	167	133073	5.323	ug/ml		82

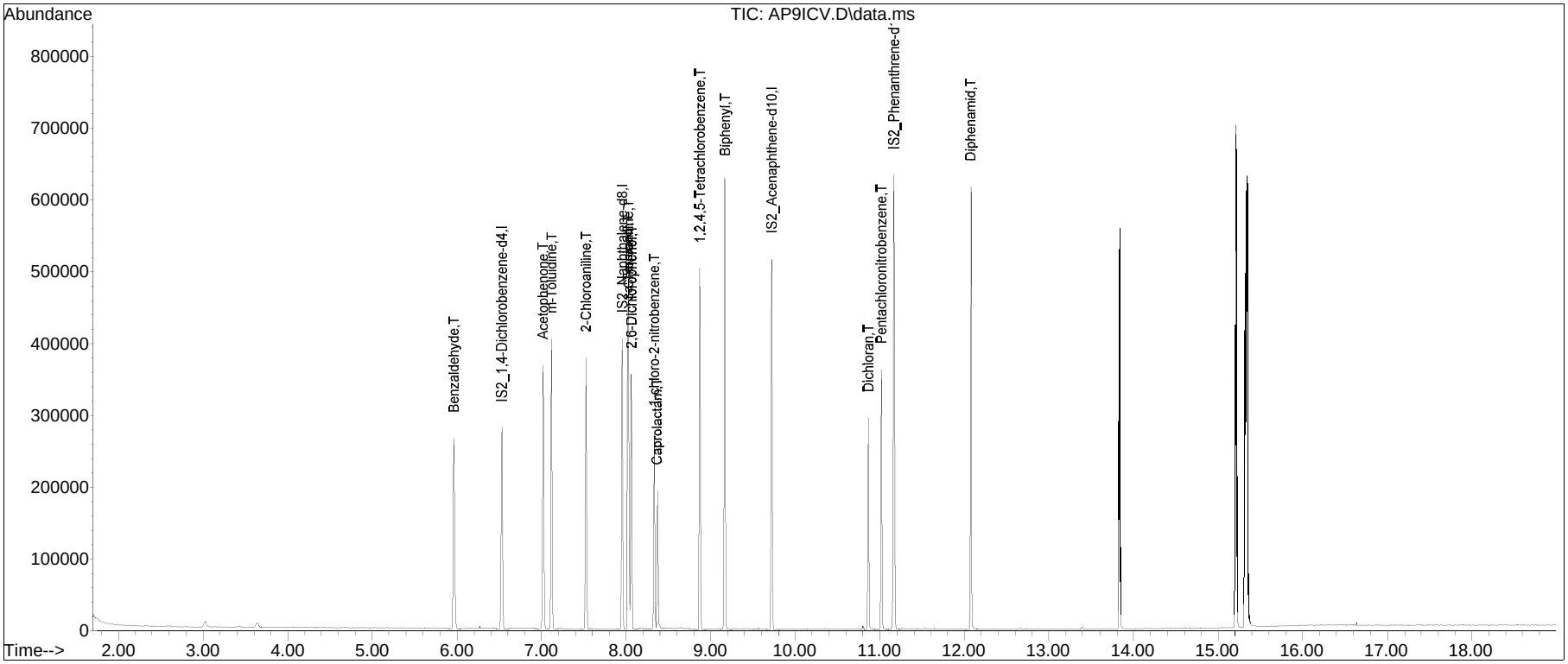
(#) = qualifier out of range (m) = manual integration (+) = signals summed

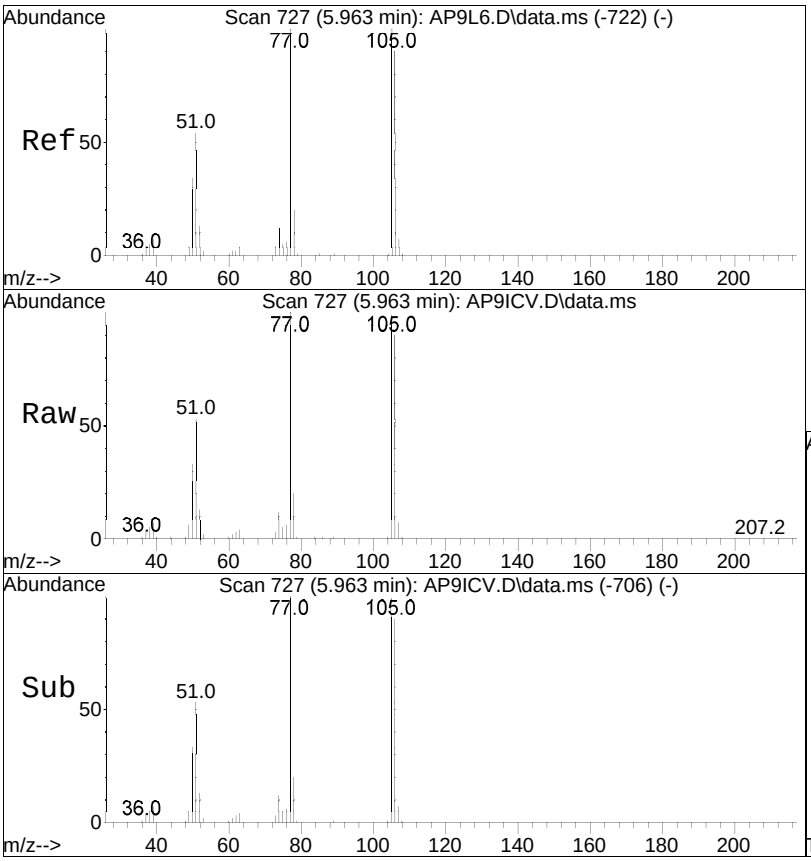
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9ICV.D
Acq On : 3 Jun 2024 3:39 am
Operator : SV107:jg
Sample : CQICV2,32,,AP9ICV Lot# 10689
Misc : WG1929644,,ical
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 03 16:28:36 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•

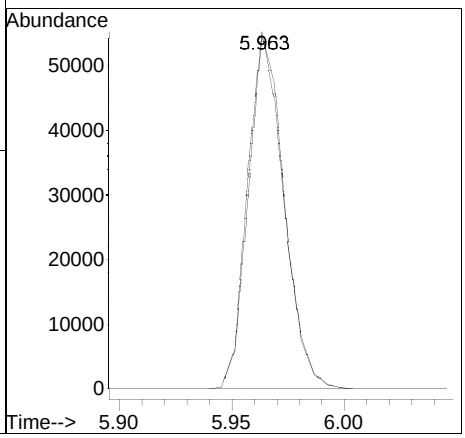


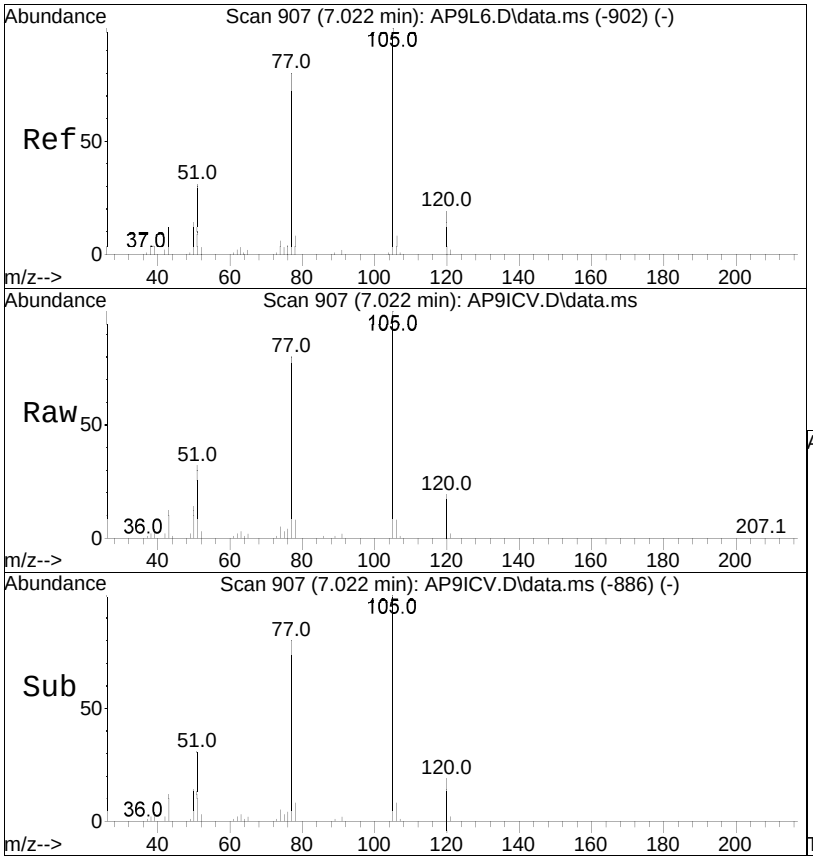


#28
Benzaldehyde
Concen: 4.86 ug/ml
RT: 5.963 min Scan# 727
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:105 Resp: 60668

Ion	Ratio	Lower	Upper
105	100		
77	100.4	82.2	123.4

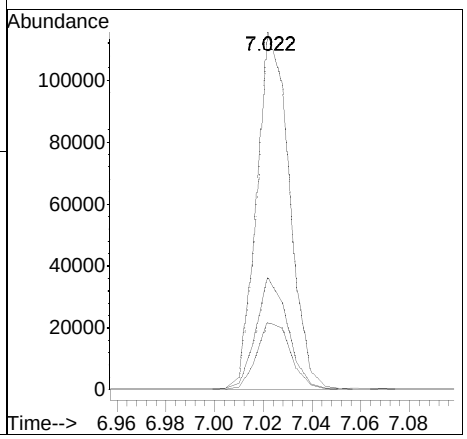


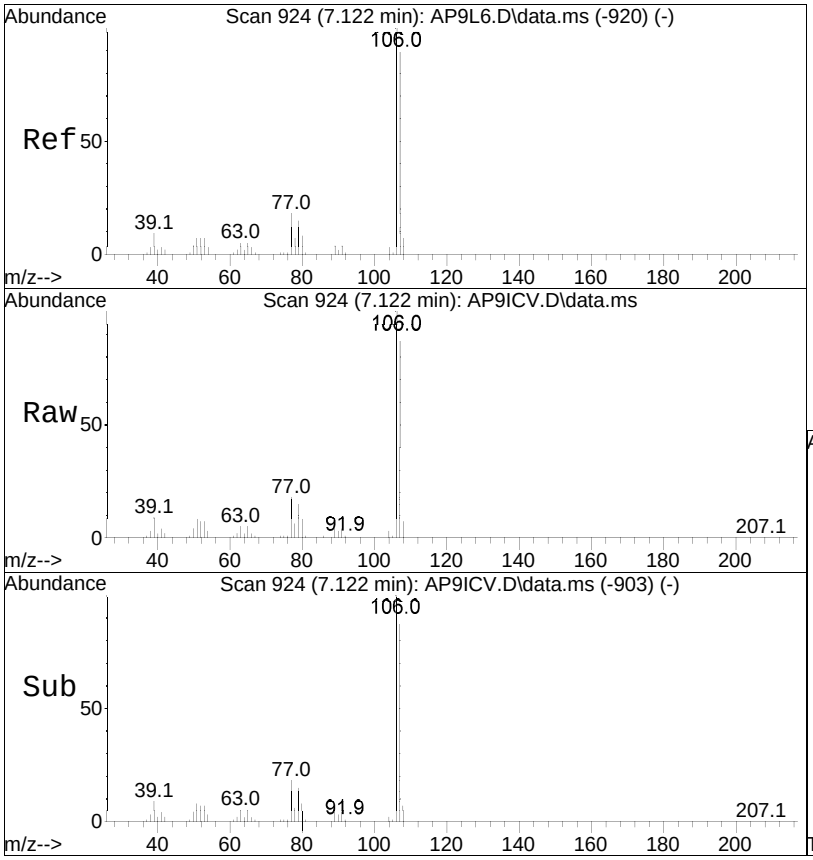


#29
Acetophenone
Concen: 4.93 ug/ml
RT: 7.022 min Scan# 907
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:105 Resp: 106516

Ion	Ratio	Lower	Upper
105	100		
120	19.6	20.5	30.7#
51	30.5	34.9	52.3#

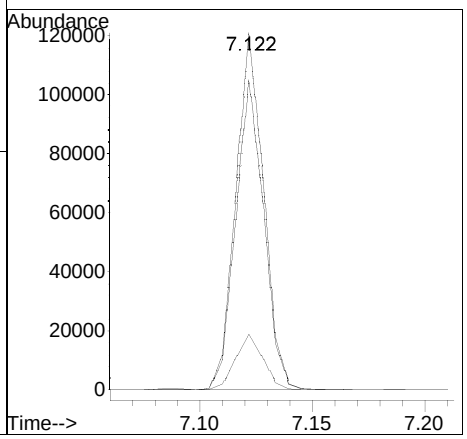


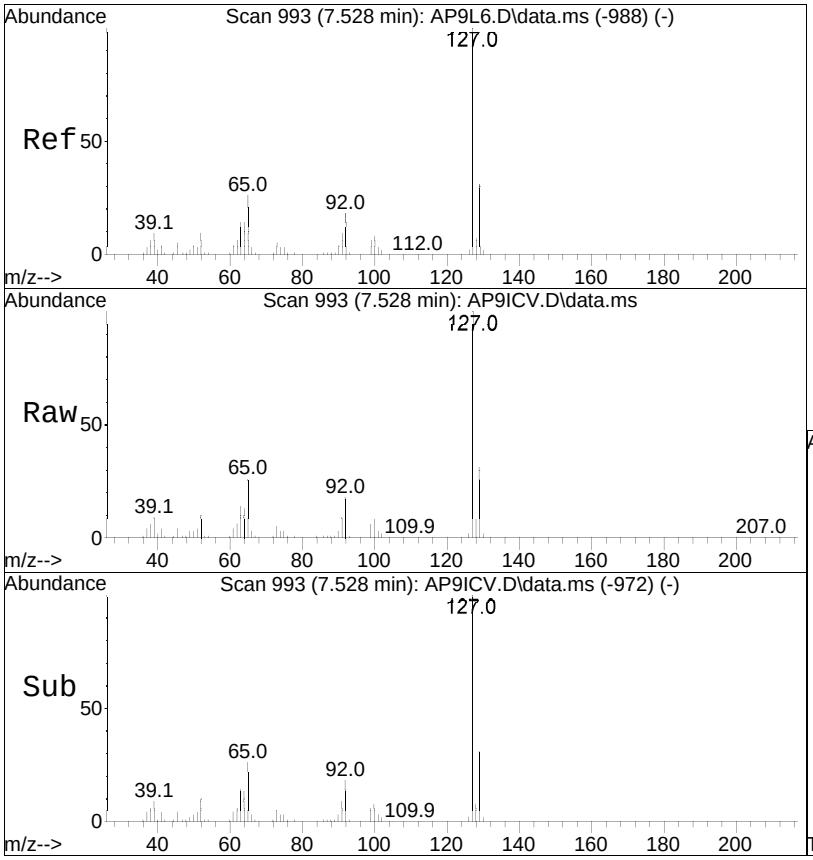


#30
m-Toluidine
Concen: 5.33 ug/ml
RT: 7.122 min Scan# 924
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:106 Resp: 103936

Ion	Ratio	Lower	Upper
106	100		
107	87.7	75.7	113.5
79	15.5	11.8	17.8

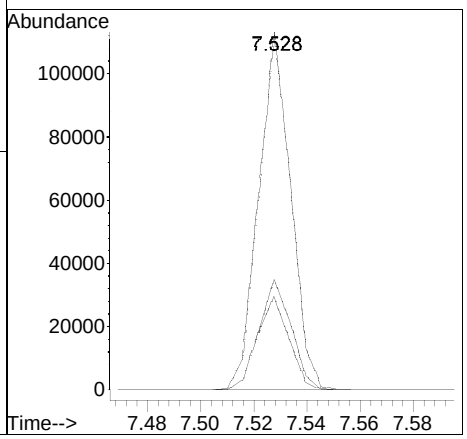


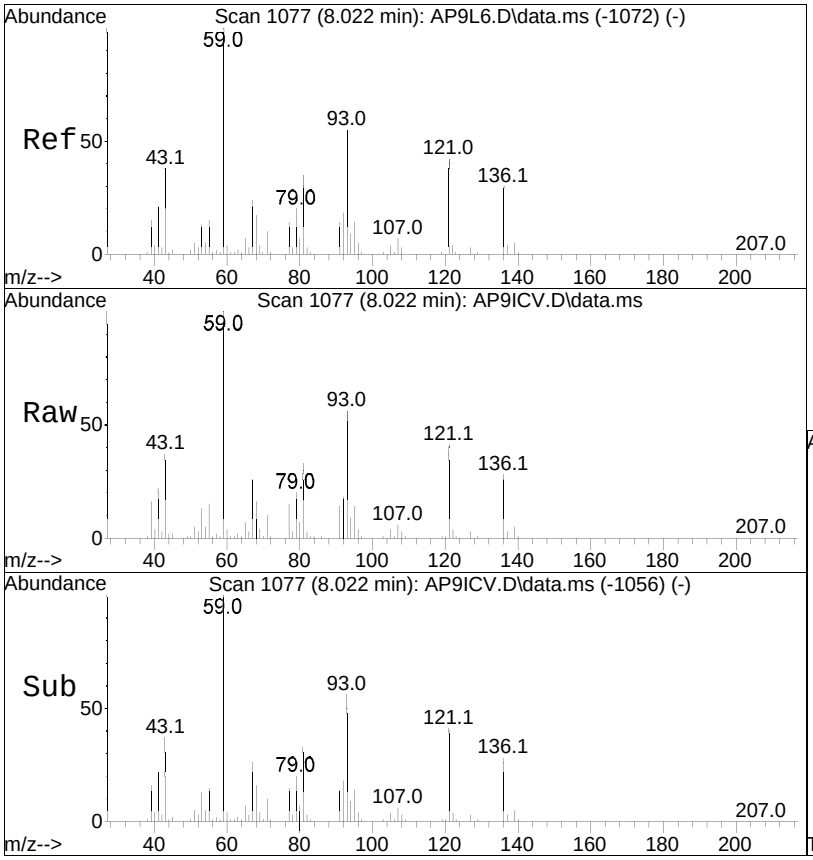


#31
2-Chloroaniline
Concen: 4.96 ug/ml
RT: 7.528 min Scan# 993
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:127 Resp: 93473

Ion	Ratio	Lower	Upper
127	100		
129	31.4	25.9	38.9
65	26.1	26.3	39.5#

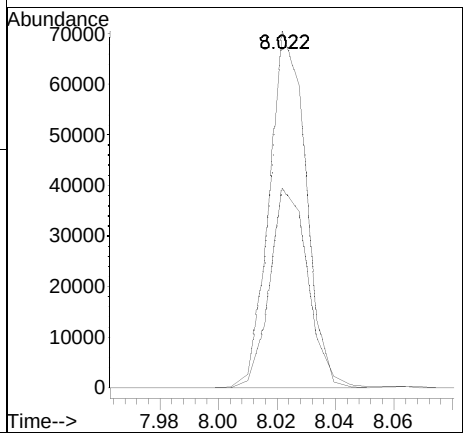


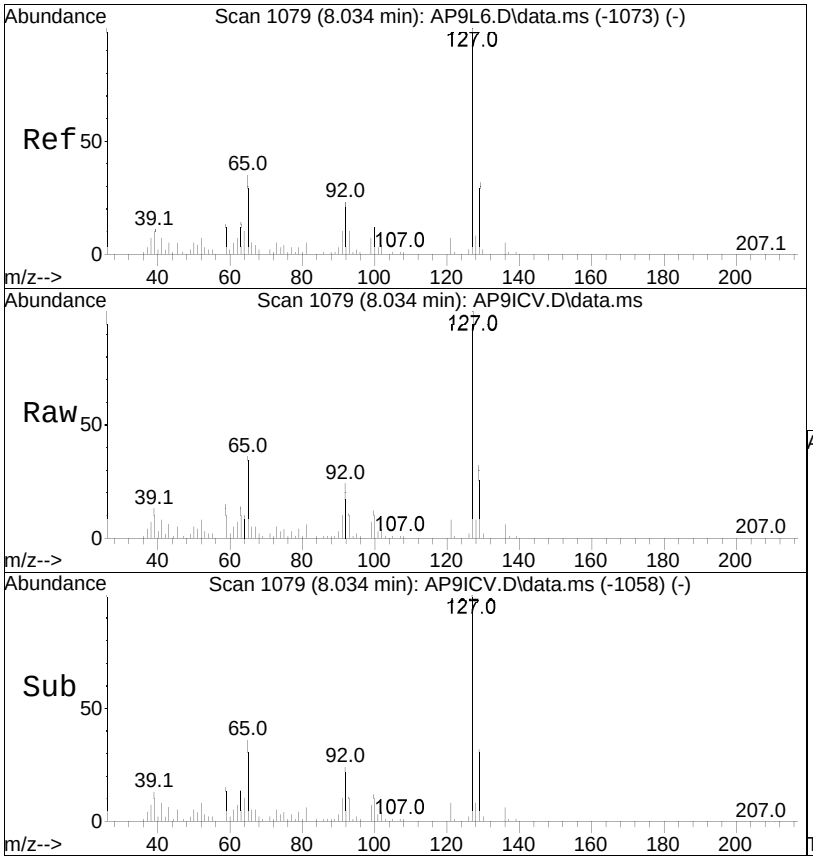


#55
a-Terpineol
Concen: 4.99 ug/ml
RT: 8.022 min Scan# 1077
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion: 59 Resp: 60976

Ion	Ratio	Lower	Upper
59	100		
93	59.0	35.6	53.4#

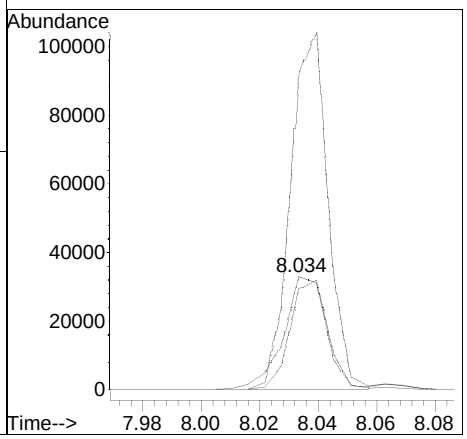


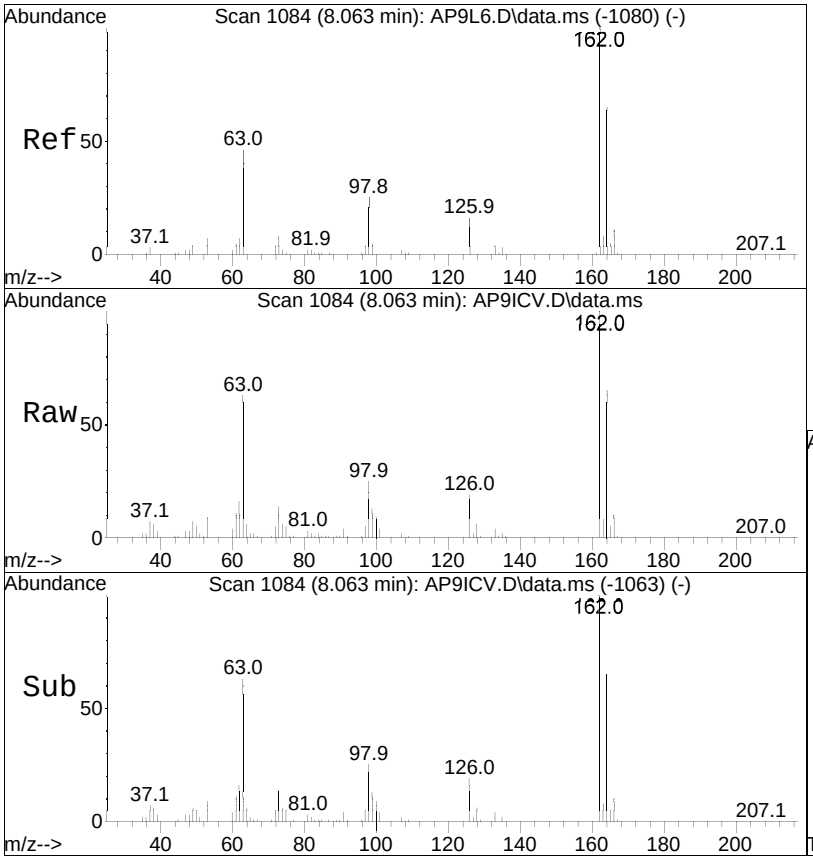


#56
3-Chloroaniline
Concen: 5.11 ug/ml
RT: 8.034 min Scan# 1079
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion: 65 Resp: 33250

Ion	Ratio	Lower	Upper
65	100		
127	279.0	243.2	364.8
129	87.0	78.8	118.2

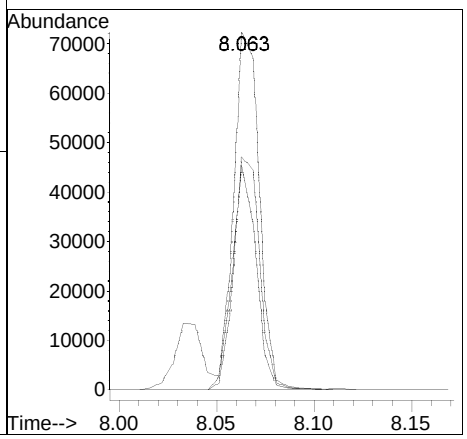


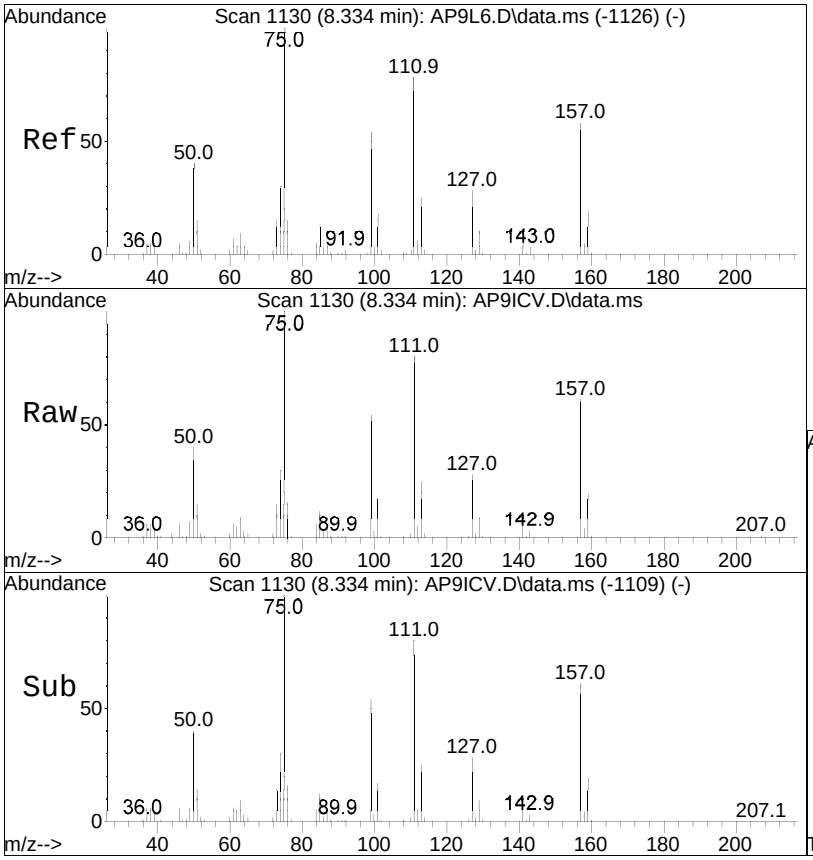


#57
2,6-Dichlorophenol
Concen: 5.15 ug/ml
RT: 8.063 min Scan# 1084
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:162 Resp: 66015

Ion	Ratio	Lower	Upper
162	100		
164	65.3	51.1	76.7
63	56.8	60.8	91.2#

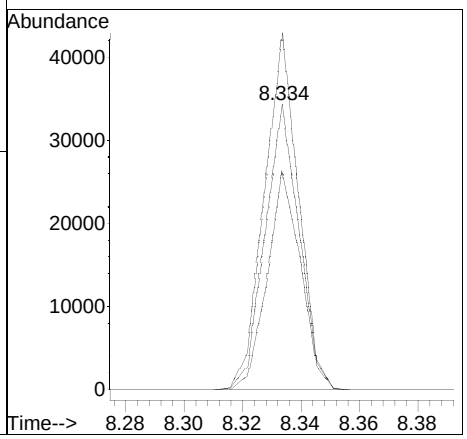


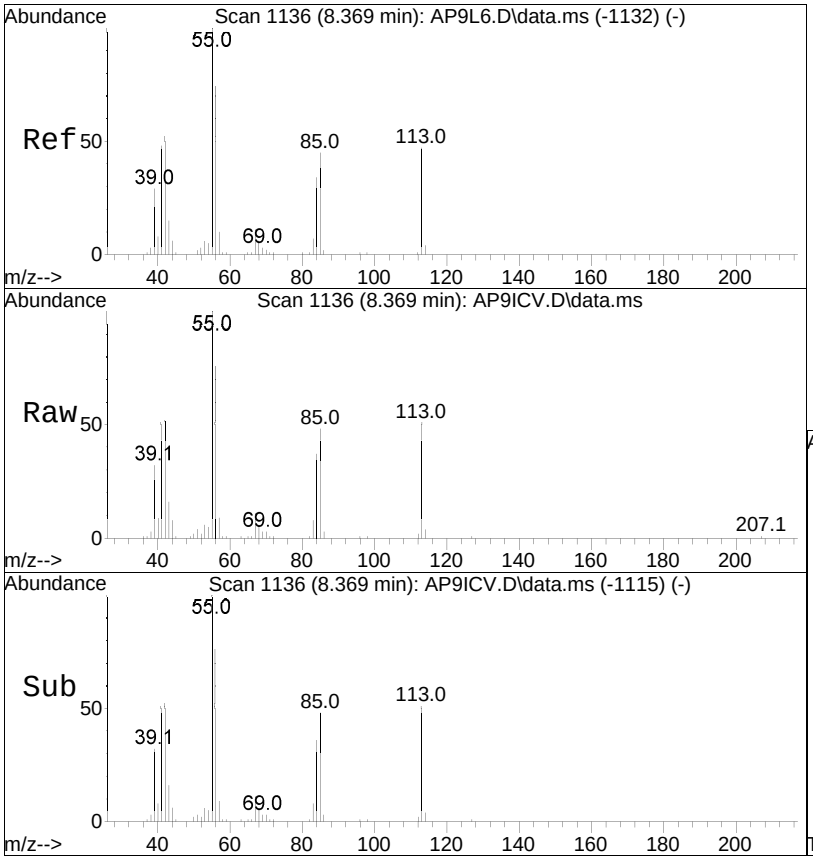


#58
1-chloro-2-nitrobenzene
Concen: 5.16 ug/ml
RT: 8.334 min Scan# 1130
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:111 Resp: 27611

Ion	Ratio	Lower	Upper
111	100		
157	74.9	0.0	0.0#
75	125.2	28.2	42.2#

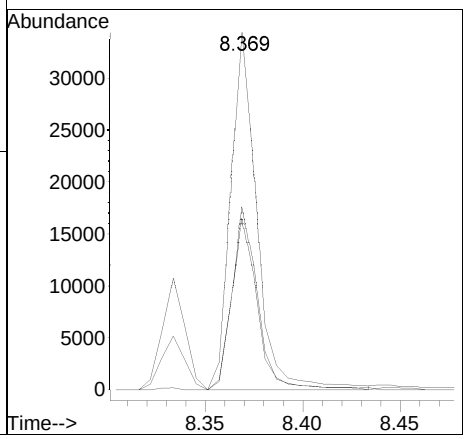


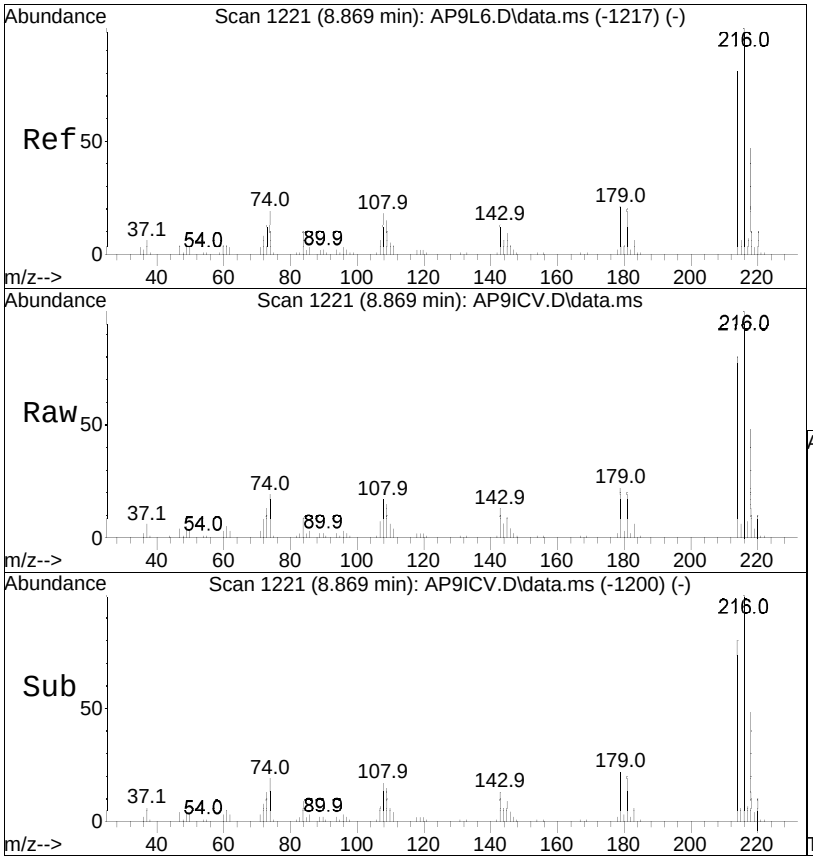


#59
Caprolactam
Concen: 4.88 ug/ml
RT: 8.369 min Scan# 1136
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion: 55 Resp: 32169

Ion	Ratio	Lower	Upper
55	100		
85	47.5	19.8	29.6#
113	50.2	29.6	44.4#

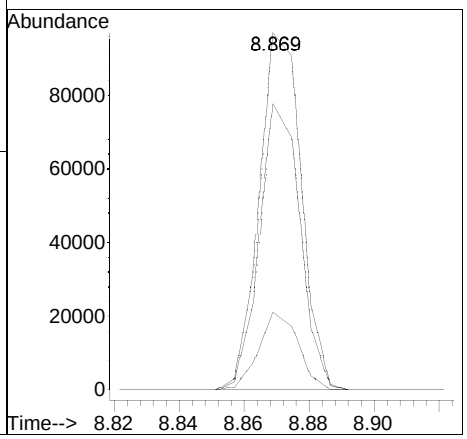


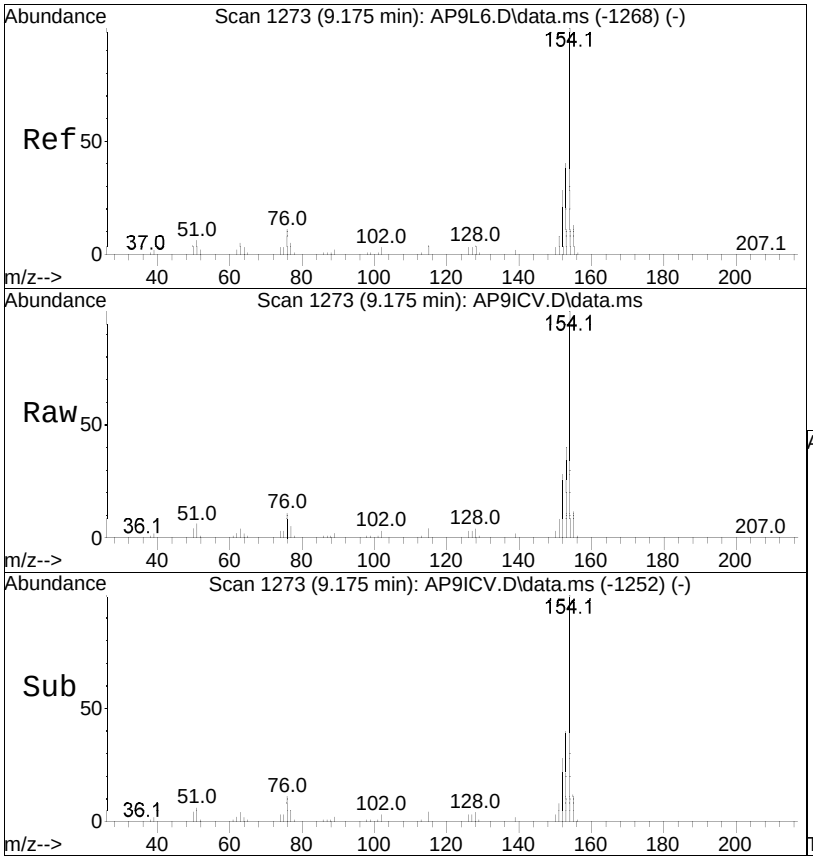


#60
1,2,4,5-Tetrachlorobenzene
Concen: 4.90 ug/ml
RT: 8.869 min Scan# 1221
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:216 Resp: 87005

Ion	Ratio	Lower	Upper
216	100		
214	77.3	63.7	95.5
179	20.5	19.0	28.6

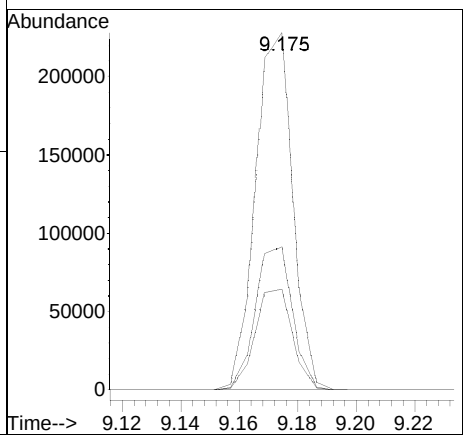


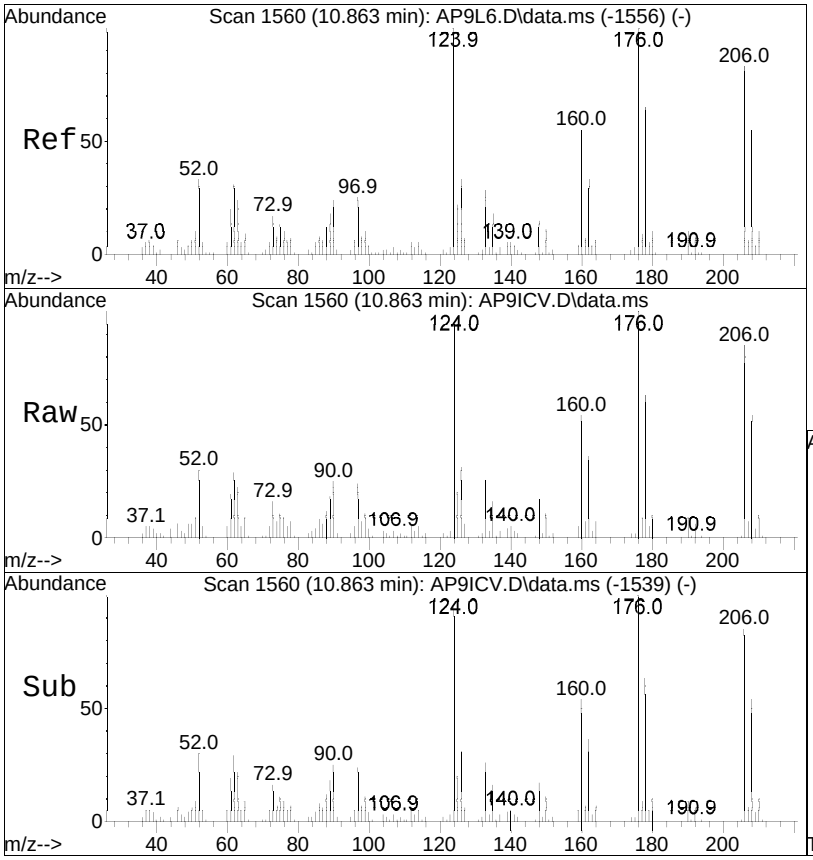


#61
Biphenyl
Concen: 4.89 ug/ml
RT: 9.175 min Scan# 1273
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:154 Resp: 200775

Ion	Ratio	Lower	Upper
154	100		
153	40.3	32.3	48.5
152	28.6	22.5	33.7

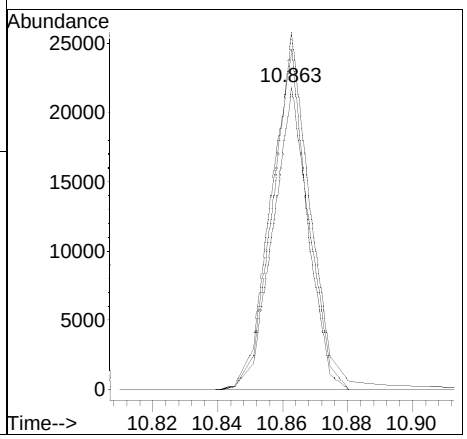


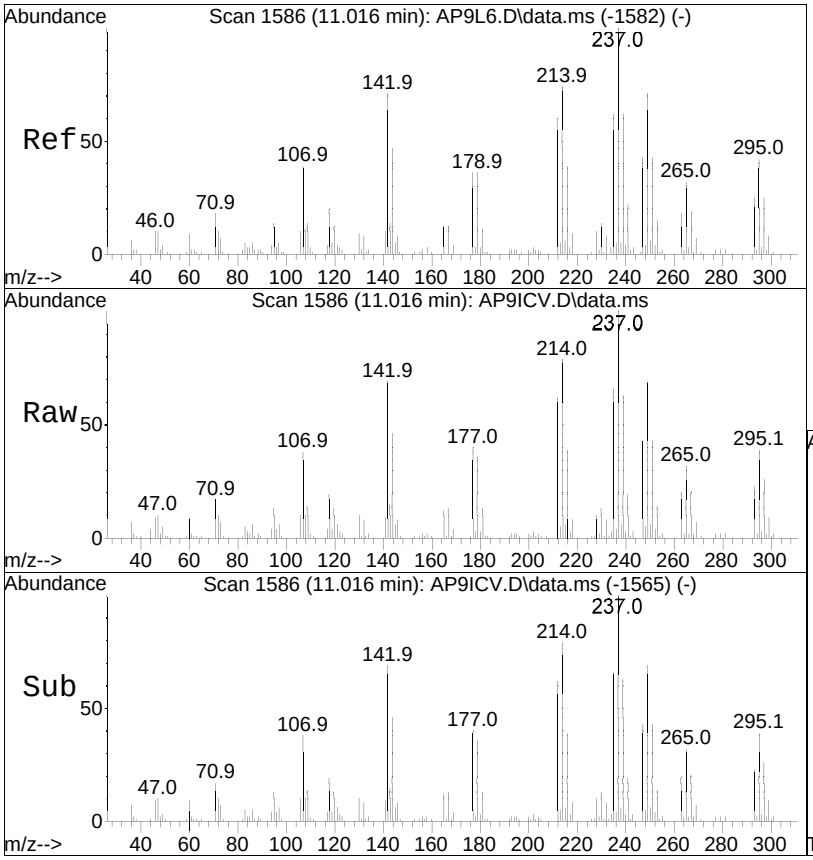


#83
Dichloran
Concen: 4.68 ug/ml
RT: 10.863 min Scan# 1560
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:206 Resp: 16902

Ion	Ratio	Lower	Upper
206	100		
176	122.7	104.6	157.0
124	111.4	130.5	195.7#

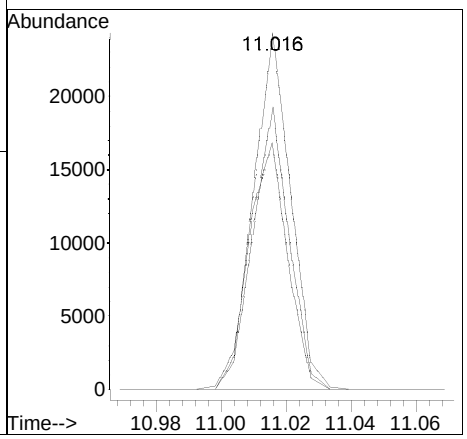


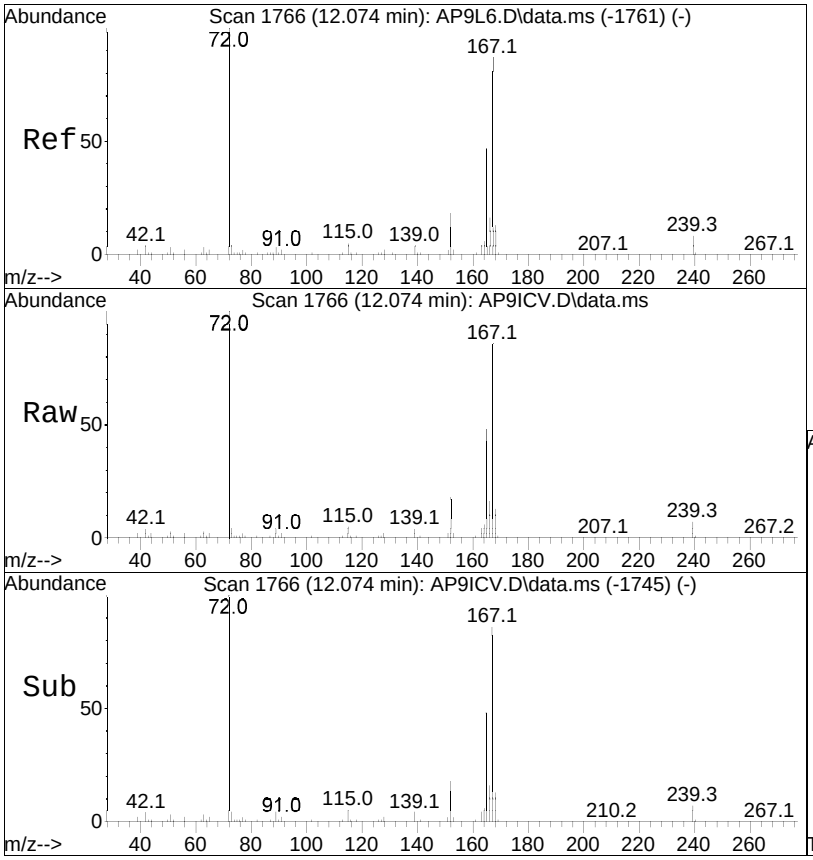


#84
Pentachloronitrobenzene
Concen: 4.80 ug/ml
RT: 11.016 min Scan# 1586
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:237 Resp: 19356

Ion	Ratio	Lower	Upper
237	100		
142	72.7	77.0	115.4#
214	77.0	58.2	87.4

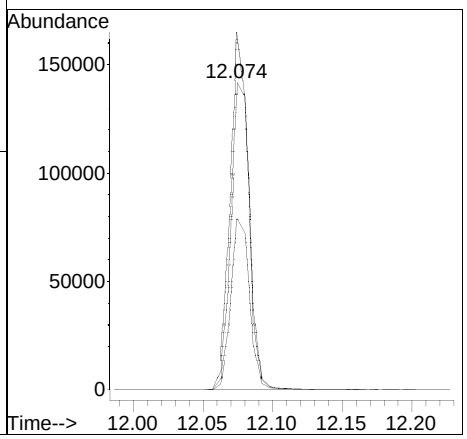




#98
Diphenamid
Concen: 5.32 ug/ml
RT: 12.074 min Scan# 1766
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:167 Resp: 133073

Ion	Ratio	Lower	Upper
167	100		
72	110.2	109.7	164.5
165	55.5	41.8	62.6



Manual Integration Report

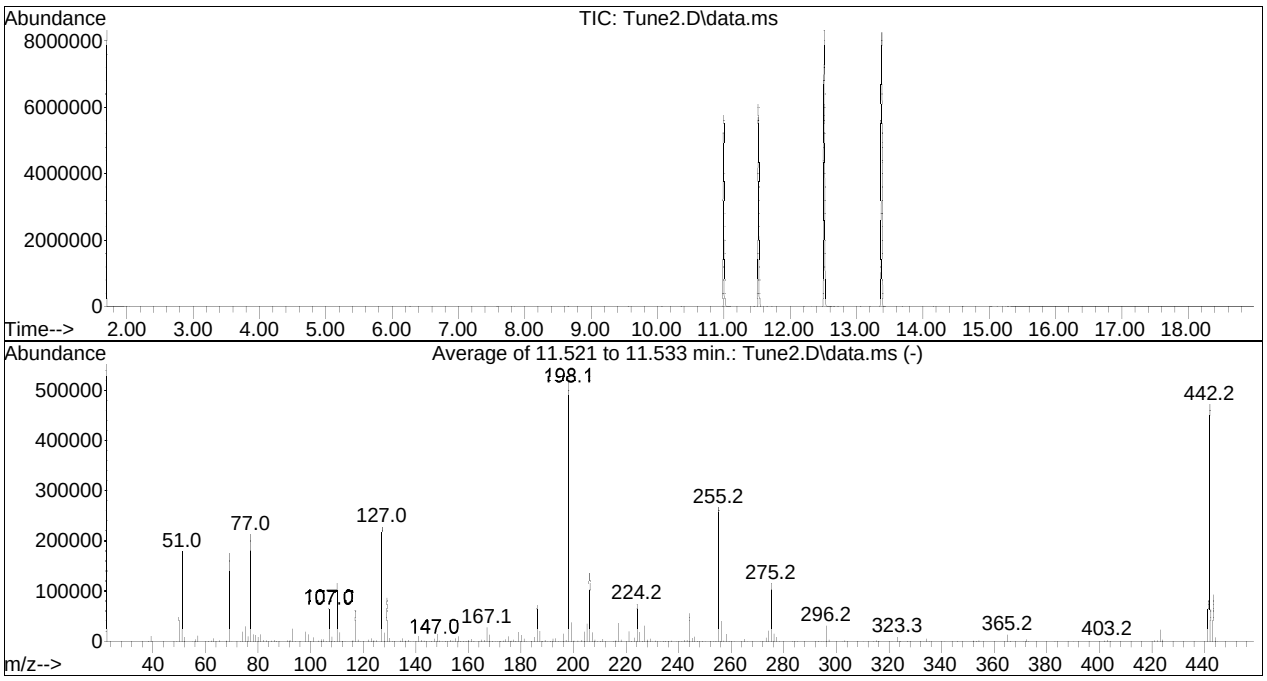
Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9ICV.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 3:39 am	Instrument	: SV107
Sample	: CQICV2,32,,AP9ICV Lot# 106	Quant Date	: 6/3/2024 4:28 pm

There are no manual integrations or false positives in this file.

Data Path : I:\8270\SV107\240602ical\
Data File : Tune2.D
Acq On : 3 Jun 2024 4:04 am
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 03 16:25:28 2024



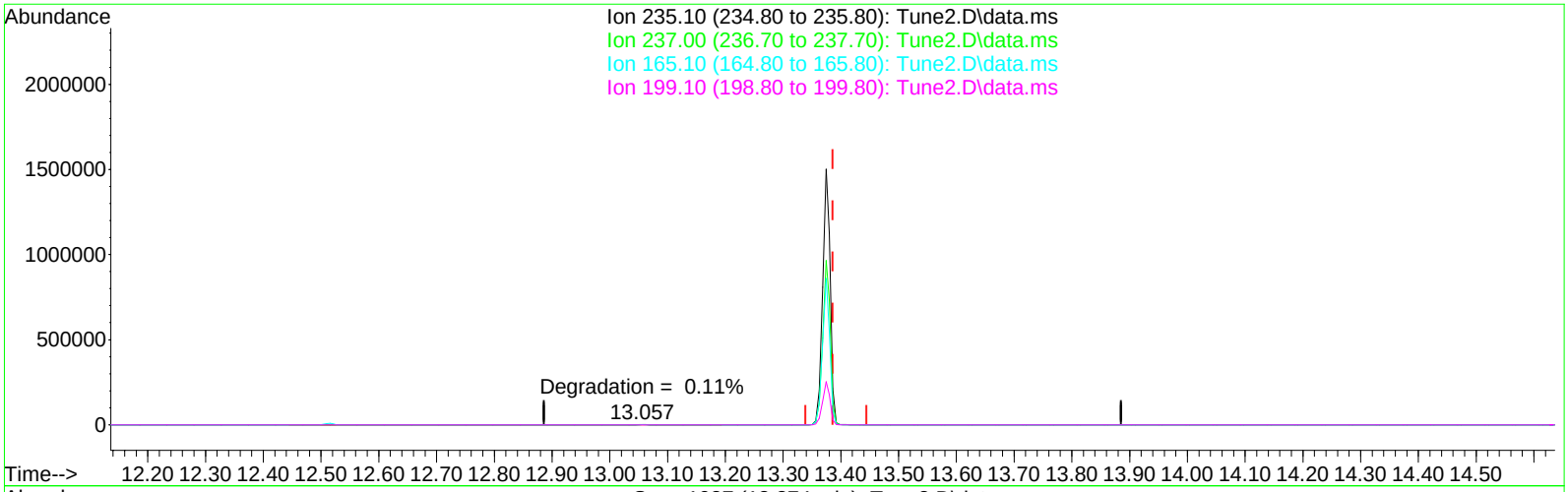
Spectrum Information: Average of 11.521 to 11.533 min.

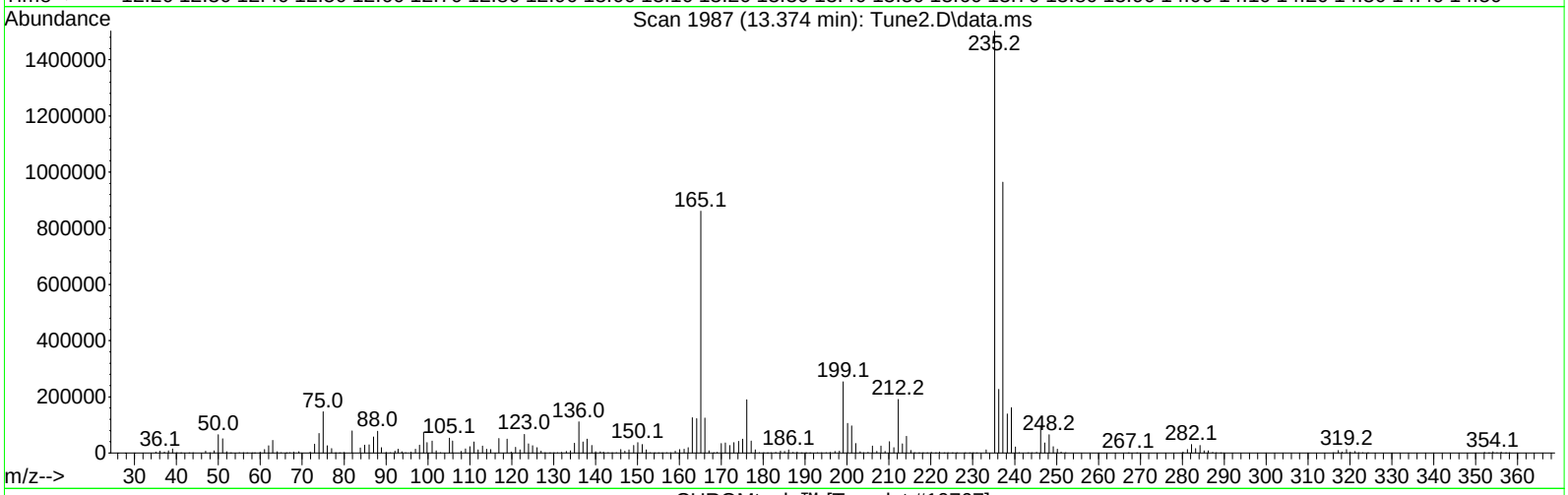
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.1	179126	PASS
68	69	0.00	2	1.6	2727	PASS
69	69	100	100	100.0	175083	PASS
70	69	0.00	2	0.5	958	PASS
127	198	10	80	43.3	227533	PASS
197	198	0.00	2	0.7	3814	PASS
198	198	100	100	100.0	525056	PASS
199	198	5	9	6.8	35925	PASS
275	198	10	60	21.9	115021	PASS
365	198	1	100	2.5	13285	PASS
441	442	0.01	24	17.1	80432	PASS
442	198	50	100	89.8	471531	PASS
443	442	15	24	19.6	92475	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune2.D
Acq On : 3 Jun 2024 4:04 am
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:05:04 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(6) DDT (T)

13.374min (-0.012) 225.28

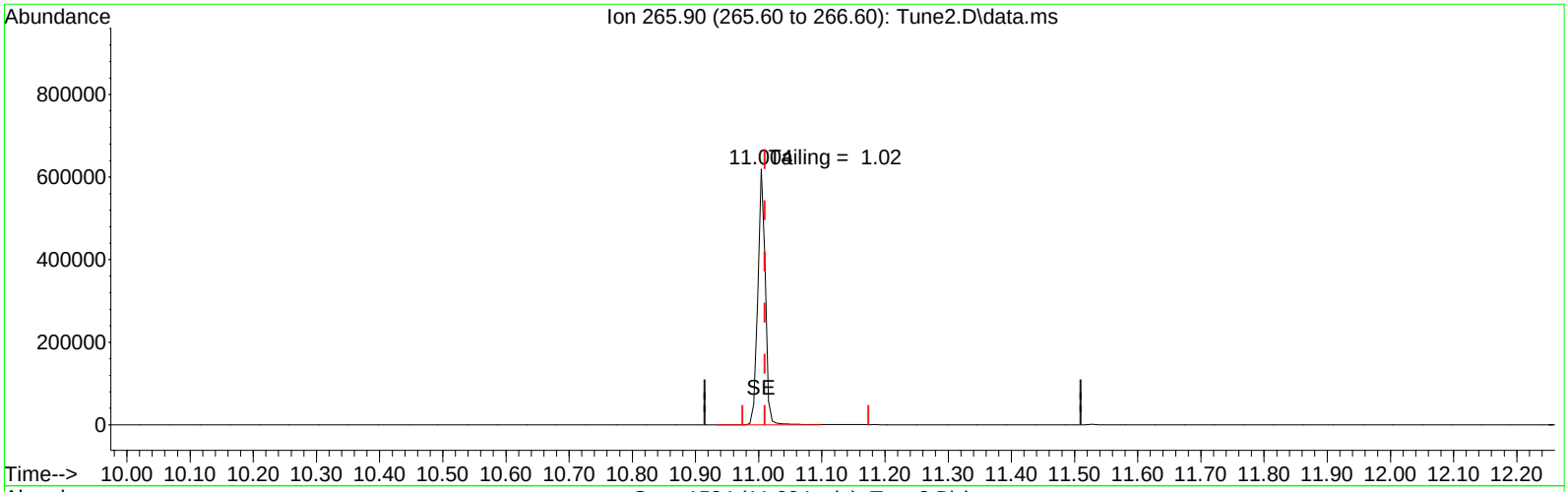
response 1373258

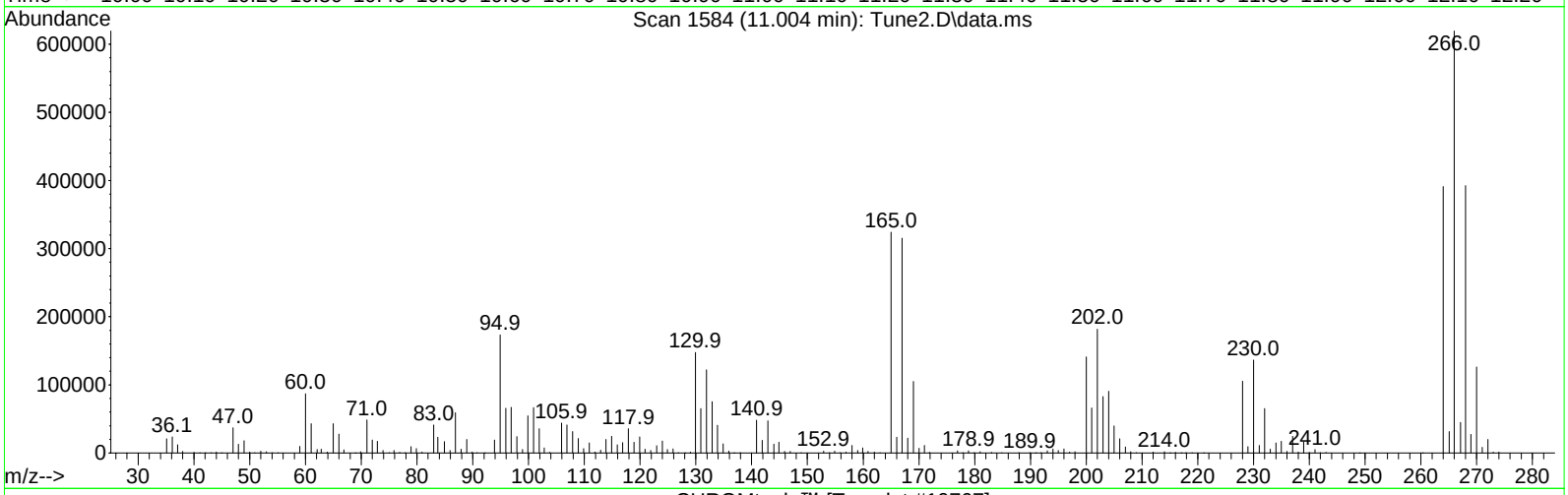
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	64.30	64.18
165.10	55.40	54.82
199.10	16.20	16.61

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune2.D
Acq On : 3 Jun 2024 4:04 am
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:05:04 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(1) Pentachlorophenol (T)

11.004min (-0.006) 246.25

response 517216

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

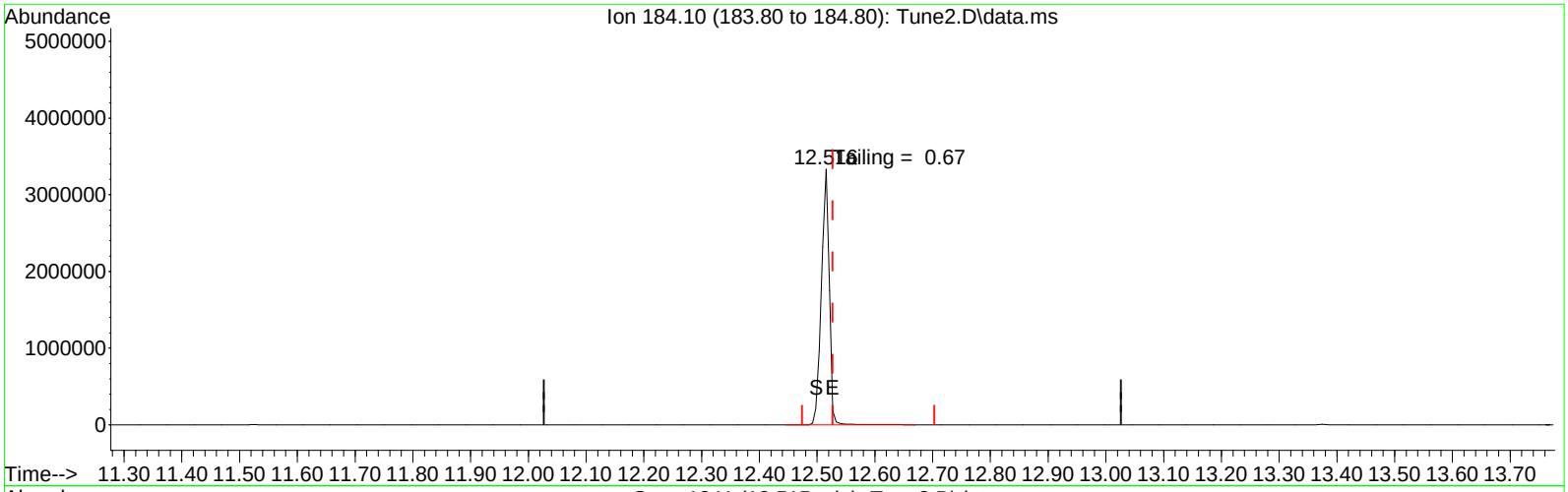
Duplicate Retention Times

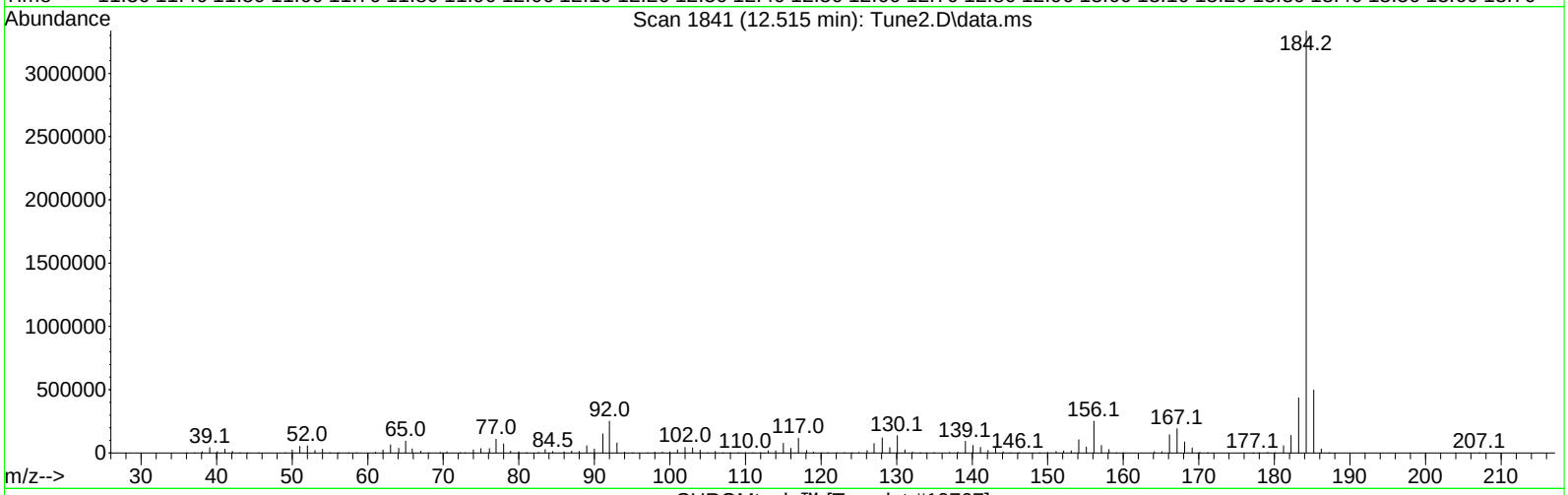
(2) DFTPP 198.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune2.D
Acq On : 3 Jun 2024 4:04 am
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:05:04 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(3) Benzidine (T)

12.515min (-0.011) 309.73

response 3153109

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL9.D
Acq On : 3 Jun 2024 4:29 am
Operator : SV107:jg
Sample : IL2,32,,ADPL50 Lot# 10709
Misc : WG1929644,,ical
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 03 16:08:07 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.528	152	47256	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery = 97.26%			
85) IS3_Acenaphthene-d10	9.728	164	107768	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery = 99.45%			
99) IS3_Phenanthrene-d10	11.169	188	235749	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery = 101.01%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	888155	51.448	ug/ml#	45
86) Atrazine	10.945	200	640804	48.965	ug/ml	96
100) n-Octadecane	11.145	57	1411913	65.046	ug/ml#	1
101) Parathion	11.963	109	364006	52.963	ug/ml	99
102) 3,3'-Dimethylbenzidine	13.263	212	2636452	58.961	ug/ml	98

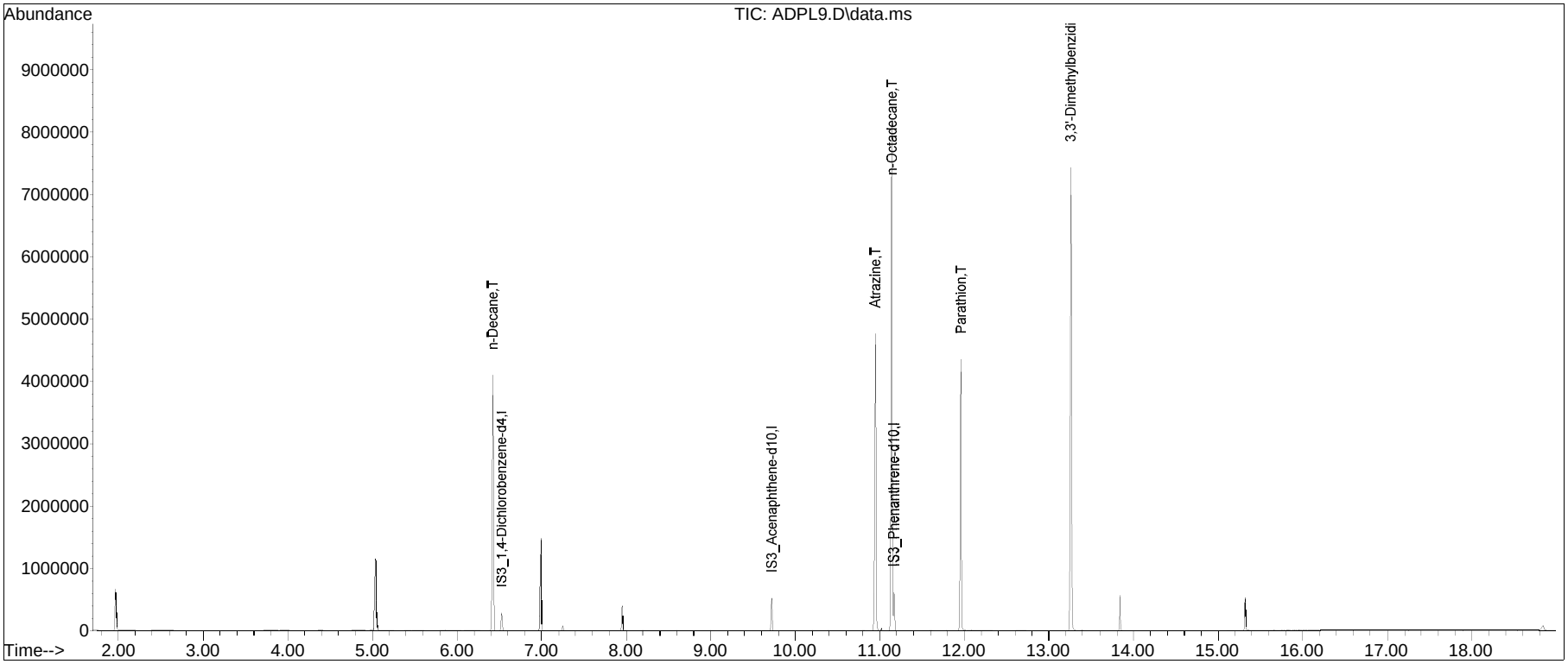
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL9.D
Acq On : 3 Jun 2024 4:29 am
Operator : SV107:jg
Sample : IL2,32,,ADPL50 Lot# 10709
Misc : WG1929644,,ical
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 03 16:08:07 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL9.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 4:29 am	Instrument	: SV107
Sample	: IL2,32,,ADPL50 Lot# 10709	Quant Date	: 6/3/2024 10:23 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL8.D
Acq On : 3 Jun 2024 4:54 am
Operator : SV107:jg
Sample : IL3,32,,ADPL25 Lot# 10710
Misc : WG1929644,,ical
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 03 16:07:48 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	51248	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	105.48%		
85) IS3_Acenaphthene-d10	9.727	164	116945	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	107.92%		
99) IS3_Phenanthrene-d10	11.169	188	253101	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	108.44%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	454019	24.251	ug/ml#	44
86) Atrazine	10.945	200	311783	26.312	ug/ml	96
100) n-Octadecane	11.145	57	687493	29.501	ug/ml#	1
101) Parathion	11.957	109	158582	26.950	ug/ml	98
102) 3,3'-Dimethylbenzidine	13.263	212	1265195	27.816	ug/ml	98

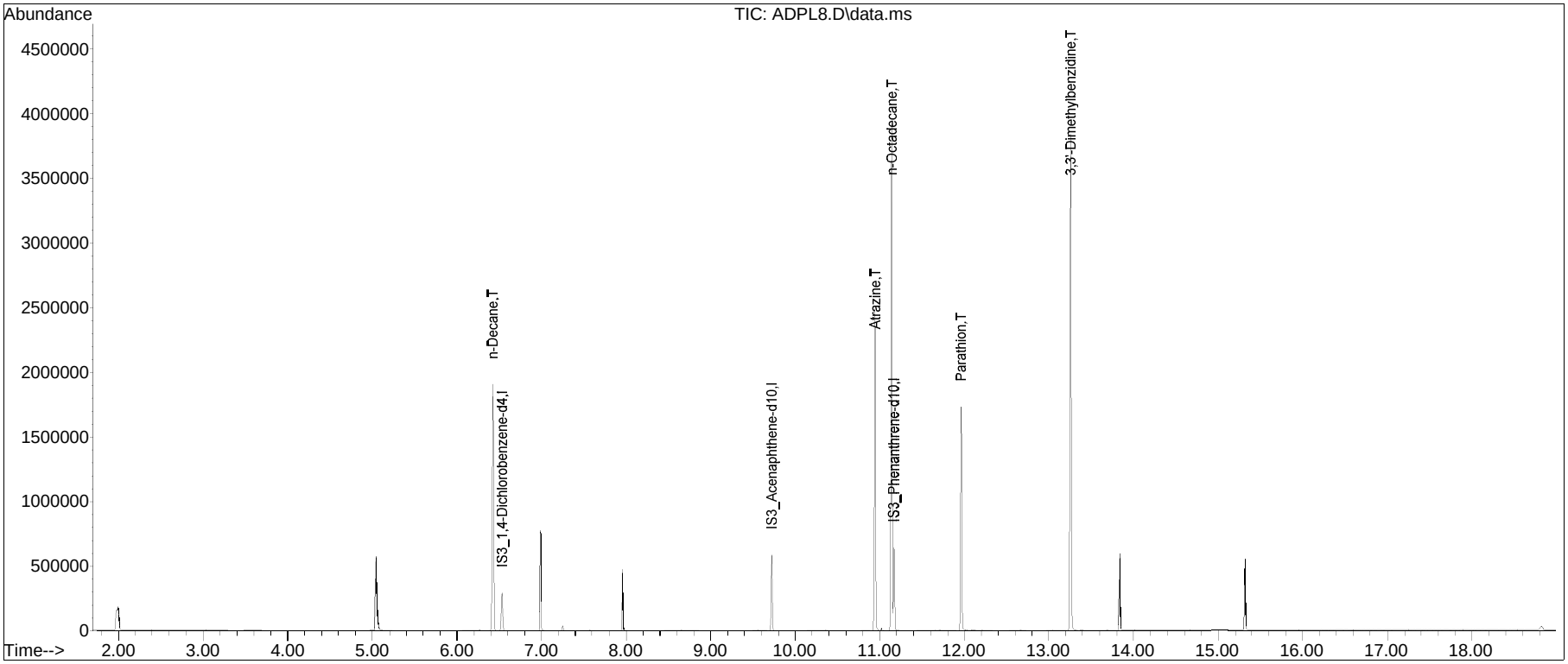
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL8.D
Acq On : 3 Jun 2024 4:54 am
Operator : SV107:jg
Sample : IL3,32,,ADPL25 Lot# 10710
Misc : WG1929644,,ical
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 03 16:07:48 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL8.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 4:54 am	Instrument	: SV107
Sample	: IL3,32,,ADPL25 Lot# 10710	Quant Date	: 6/3/2024 10:23 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL7.D
Acq On : 3 Jun 2024 5:19 am
Operator : SV107:jg
Sample : IL4,32,,ADPL10 Lot# 10711
Misc : WG1929644,,ical
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 03 16:07:29 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	51597	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	106.20%		
85) IS3_Acenaphthene-d10	9.728	164	112556	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	103.87%		
99) IS3_Phenanthrene-d10	11.169	188	243667	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	104.40%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	181344	9.621	ug/ml#	44
86) Atrazine	10.939	200	109374	11.099	ug/ml	96
100) n-Octadecane	11.139	57	260309	11.603	ug/ml#	1
101) Parathion	11.957	109	46804	10.070	ug/ml	99
102) 3,3'-Dimethylbenzidine	13.257	212	445526	10.874	ug/ml	98

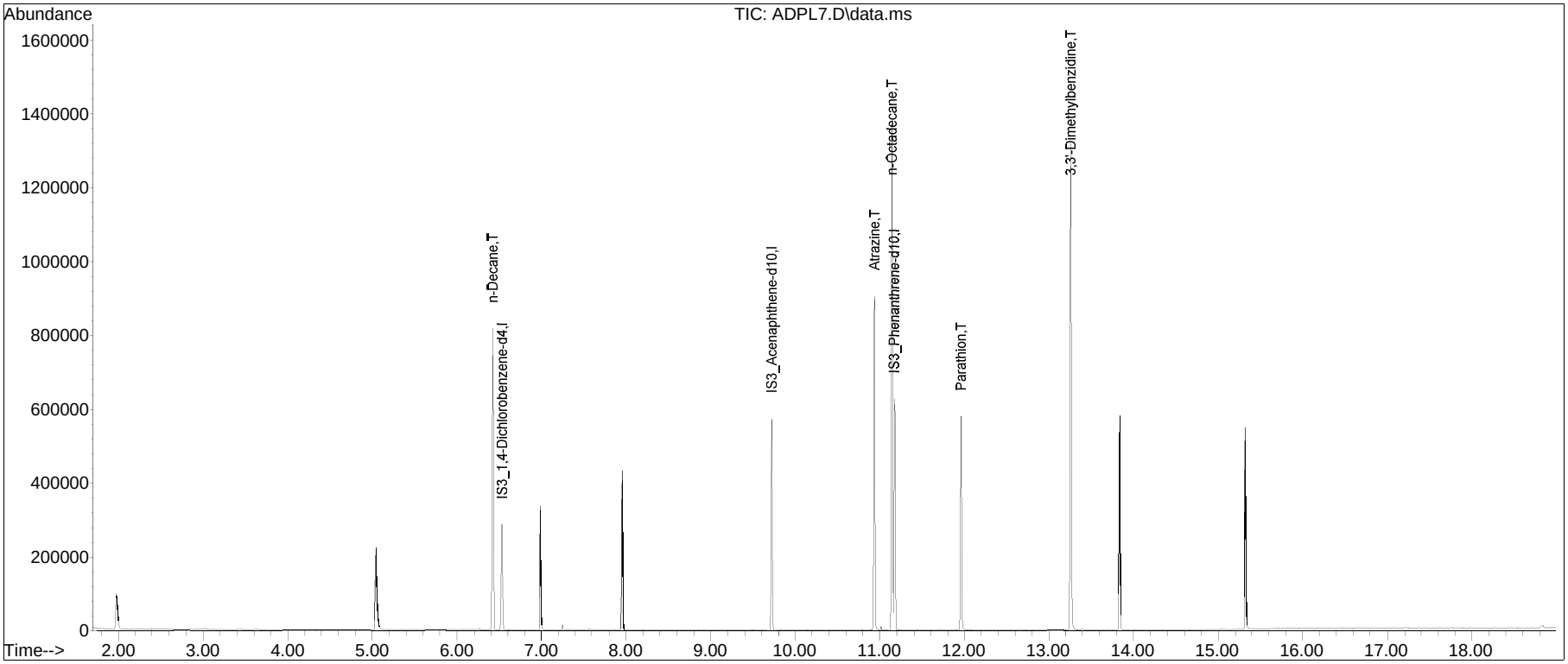
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL7.D
Acq On : 3 Jun 2024 5:19 am
Operator : SV107:jg
Sample : IL4,32,,ADPL10 Lot# 10711
Misc : WG1929644,,ical
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 03 16:07:29 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL7.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 5:19 am	Instrument	: SV107
Sample	: IL4,32,,ADPL10 Lot# 10711	Quant Date	: 6/3/2024 10:23 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL6.D
Acq On : 3 Jun 2024 5:45 am
Operator : SV107:jg
Sample : IL5,32,,ADPL5 Lot# 10712
Misc : WG1929644,,ical
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 03 16:07:12 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	48587	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	100.00%		
85) IS3_Acenaphthene-d10	9.728	164	108359	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	100.00%		
99) IS3_Phenanthrene-d10	11.174	188	233400	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	100.00%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	81218	4.576	ug/ml#	43
86) Atrazine	10.933	200	48202	5.430	ug/ml	96
100) n-Octadecane	11.139	57	115995	5.398	ug/ml#	1
101) Parathion	11.957	109	18001	4.531	ug/ml	96
102) 3,3'-Dimethylbenzidine	13.257	212	195495	5.424	ug/ml	99

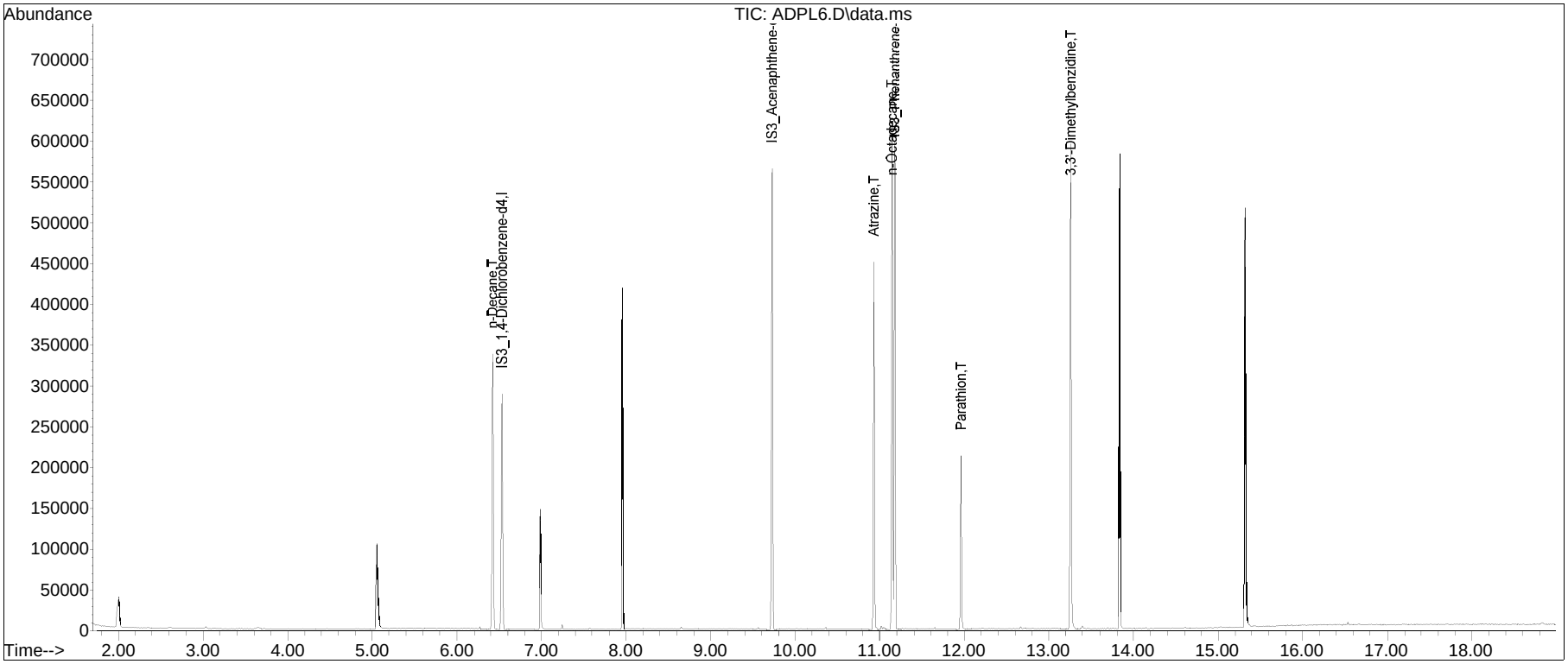
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL6.D
Acq On : 3 Jun 2024 5:45 am
Operator : SV107:jg
Sample : IL5,32,,ADPL5 Lot# 10712
Misc : WG1929644,,ical
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 03 16:07:12 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL6.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 5:45 am	Instrument	: SV107
Sample	: IL5,32,,ADPL5 Lot# 10712	Quant Date	: 6/3/2024 10:23 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL5.D
Acq On : 3 Jun 2024 6:10 am
Operator : SV107:jg
Sample : IL6,32,,ADPL2.5 Lot# 10713
Misc : WG1929644,,ical
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 03 16:06:54 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.533	152	48599	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	100.02%		
85) IS3_Acenaphthene-d10	9.727	164	105030	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	96.93%		
99) IS3_Phenanthrene-d10	11.168	188	227320	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	97.40%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	41542	2.340	ug/ml#	44
86) Atrazine	10.933	200	21586	2.630	ug/ml	96
100) n-Octadecane	11.145	57	53141	2.539	ug/ml#	1
101) Parathion	11.957	109	7173	2.132	ug/ml	94
102) 3,3'-Dimethylbenzidine	13.257	212	77675	2.666	ug/ml	99

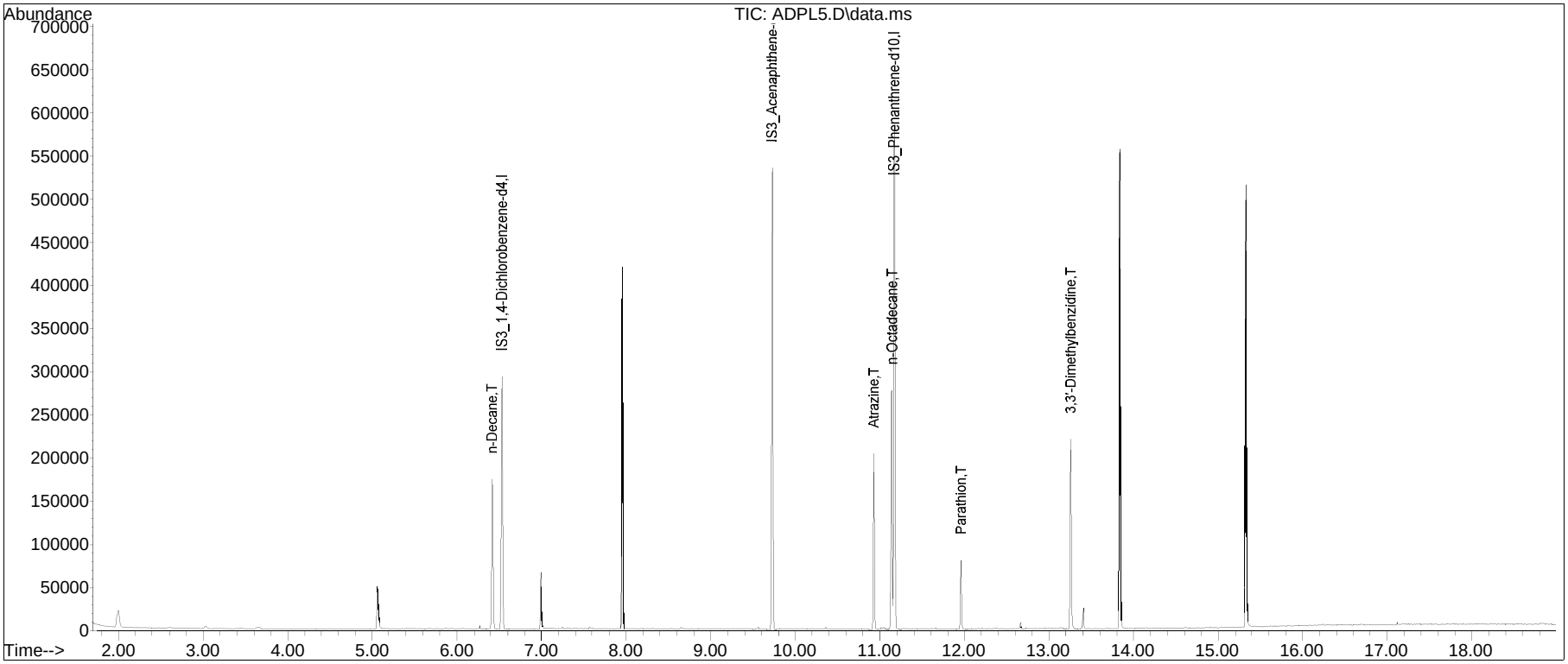
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL5.D
Acq On : 3 Jun 2024 6:10 am
Operator : SV107:jg
Sample : IL6,32,,ADPL2.5 Lot# 10713
Misc : WG1929644,,ical
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 03 16:06:54 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL5.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 6:10 am	Instrument	: SV107
Sample	: IL6,32,,ADPL2.5 Lot# 10713	Quant Date	: 6/3/2024 10:23 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL4.D
Acq On : 3 Jun 2024 6:35 am
Operator : SV107:jg
Sample : IL7,32,,ADPL1 Lot# 10714
Misc : WG1929644,,ical
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 03 16:06:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	46933	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery = 96.60%			
85) IS3_Acenaphthene-d10	9.727	164	101637	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery = 93.80%			
99) IS3_Phenanthrene-d10	11.169	188	214729	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery = 92.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	17888	1.043	ug/ml#	44
86) Atrazine	10.933	200	8768	1.170	ug/ml	96
100) n-Octadecane	11.139	57	22089	1.117	ug/ml#	1
101) Parathion	11.957	109	2809	1.119	ug/ml	97
102) 3,3'-Dimethylbenzidine	13.257	212	28638	1.502	ug/ml	99

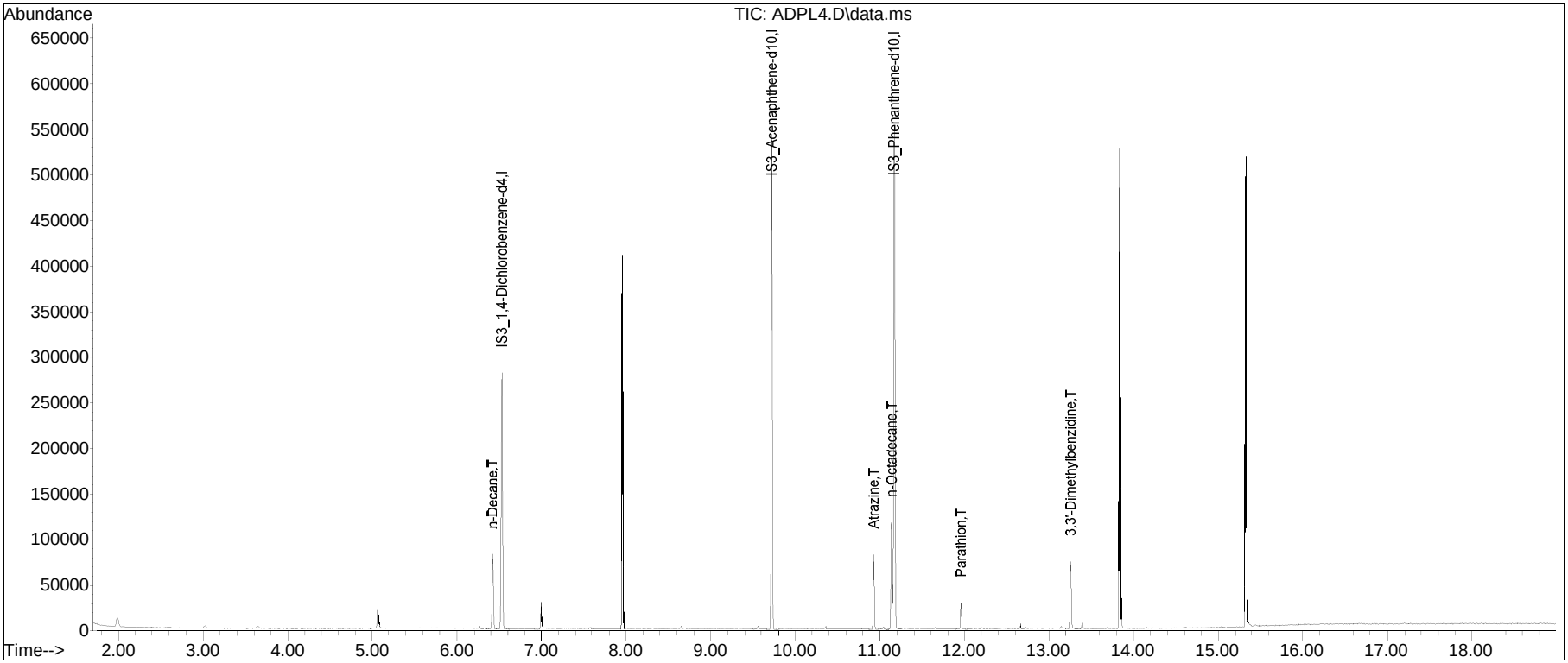
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL4.D
Acq On : 3 Jun 2024 6:35 am
Operator : SV107:jg
Sample : IL7,32,,ADPL1 Lot# 10714
Misc : WG1929644,,ical
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 03 16:06:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL4.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 6:35 am	Instrument	: SV107
Sample	: IL7,32,,ADPL1 Lot# 10714	Quant Date	: 6/3/2024 10:23 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL3.D
Acq On : 3 Jun 2024 7:00 am
Operator : SV107:jg
Sample : IL8,32,,ADPL0.5 Lot# 10715
Misc : WG1929644,,ical
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 03 16:05:40 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	48900	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	100.64%		
85) IS3_Acenaphthene-d10	9.727	164	108367	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	100.01%		
99) IS3_Phenanthrene-d10	11.169	188	232187	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	99.48%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	8935	0.500	ug/ml#	42
86) Atrazine	10.933	200	4033	0.556	ug/ml	94
100) n-Octadecane	11.139	57	10307	0.482	ug/ml#	1
101) Parathion	11.957	109	1161	0.668	ug/ml#	82
102) 3,3'-Dimethylbenzidine	13.257	212	10182	1.000	ug/ml	97

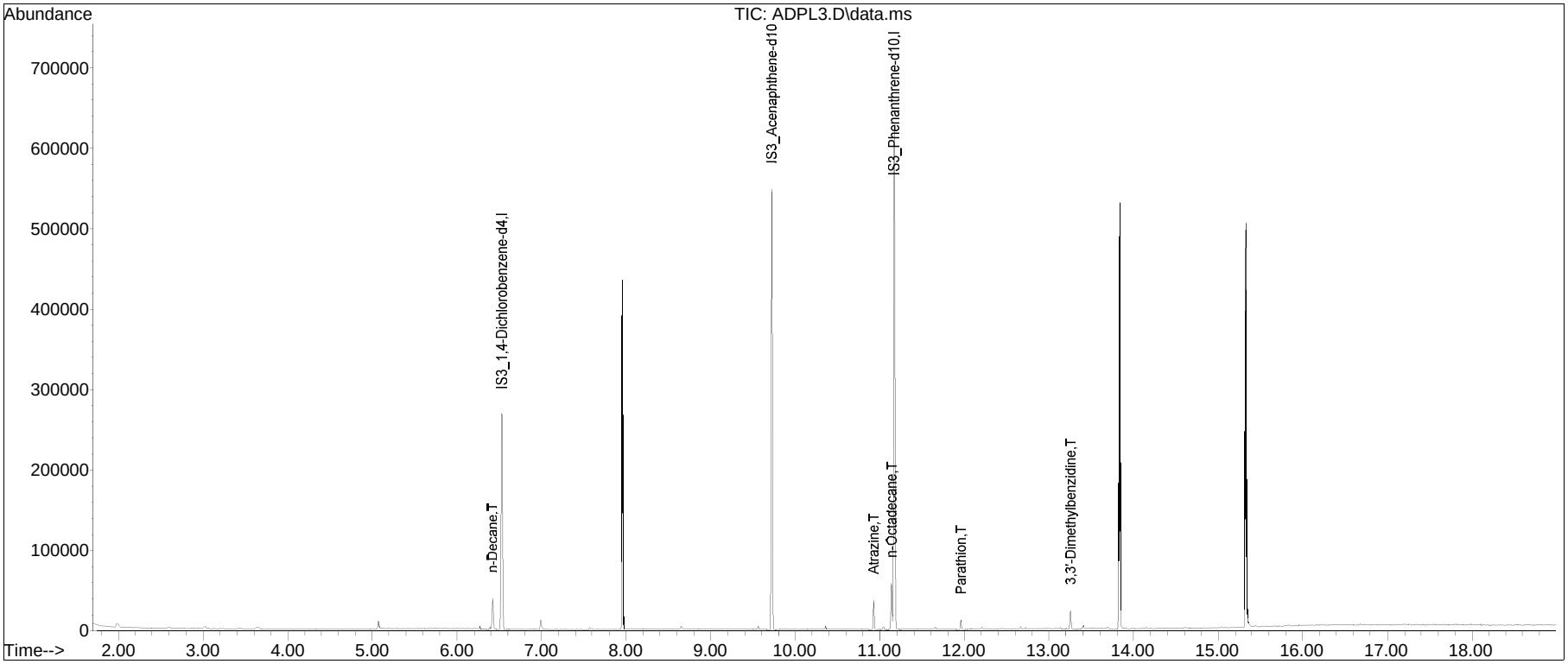
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL3.D
Acq On : 3 Jun 2024 7:00 am
Operator : SV107:jg
Sample : IL8,32,,ADPL0.5 Lot# 10715
Misc : WG1929644,,ical
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 03 16:05:40 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL3.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 7:00 am	Instrument	: SV107
Sample	: IL8,32,,ADPL0.5 Lot# 10715	Quant Date	: 6/3/2024 10:23 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL2.D
Acq On : 3 Jun 2024 7:25 am
Operator : SV107:jg
Sample : IL9,32,,ADPL0.2 Lot# 10716
Misc : WG1929644,,ical
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 03 16:04:28 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	51656	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	106.32%		
85) IS3_Acenaphthene-d10	9.727	164	110125	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	101.63%		
99) IS3_Phenanthrene-d10	11.169	188	232671	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	99.69%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	3838	0.203	ug/ml#	42
86) Atrazine	10.933	200	1581	0.267	ug/ml	92
100) n-Octadecane	11.139	57	3822	0.178	ug/ml#	1
101) Parathion	11.957	109	580	0.527	ug/ml#	80
102) 3,3'-Dimethylbenzidine	13.257	212	3243	0.833	ug/ml#	95

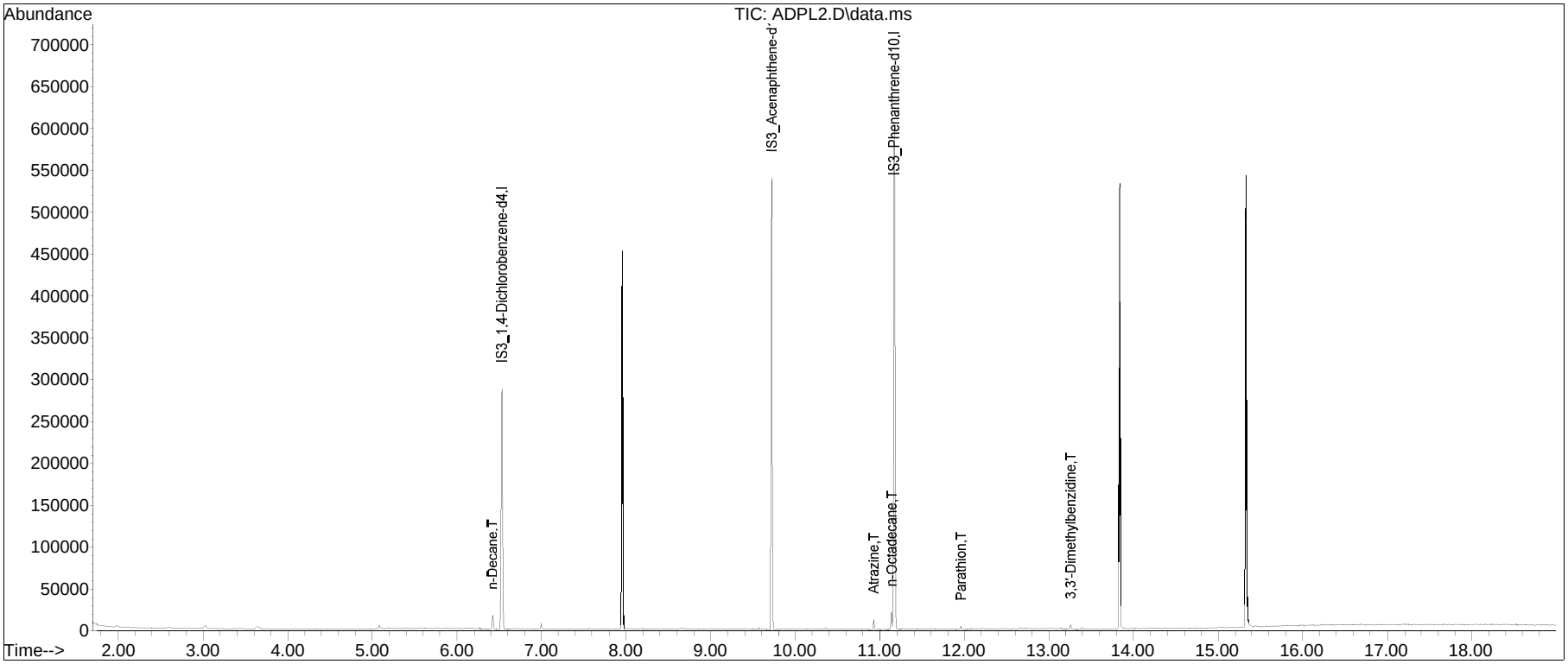
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL2.D
Acq On : 3 Jun 2024 7:25 am
Operator : SV107:jg
Sample : IL9,32,,ADPL0.2 Lot# 10716
Misc : WG1929644,,ical
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 03 16:04:28 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL2.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 7:25 am	Instrument	: SV107
Sample	: IL9,32,,ADPL0.2 Lot# 10716	Quant Date	: 6/3/2024 10:23 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL1.D
Acq On : 3 Jun 2024 7:50 am
Operator : SV107:jg
Sample : IL10,32,,ADPL0.1 Lot# 10717
Misc : WG1929644,,ical
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 03 16:04:10 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	47913	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	98.61%		
85) IS3_Acenaphthene-d10	9.728	164	103451	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	95.47%		
99) IS3_Phenanthrene-d10	11.169	188	219717	4.000	ug/ml	# 0.00
Standard Area 2 = 233400			Recovery =	94.14%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	1821	0.104	ug/ml	# 41
86) Atrazine	10.933	200	629	0.162	ug/ml	# 33
100) n-Octadecane	11.139	57	1799	0.089	ug/ml	# 1
101) Parathion	11.951	109	154M2	0.426	ug/ml	
102) 3,3'-Dimethylbenzidine	13.257	212	1095	0.783	ug/ml	# 62

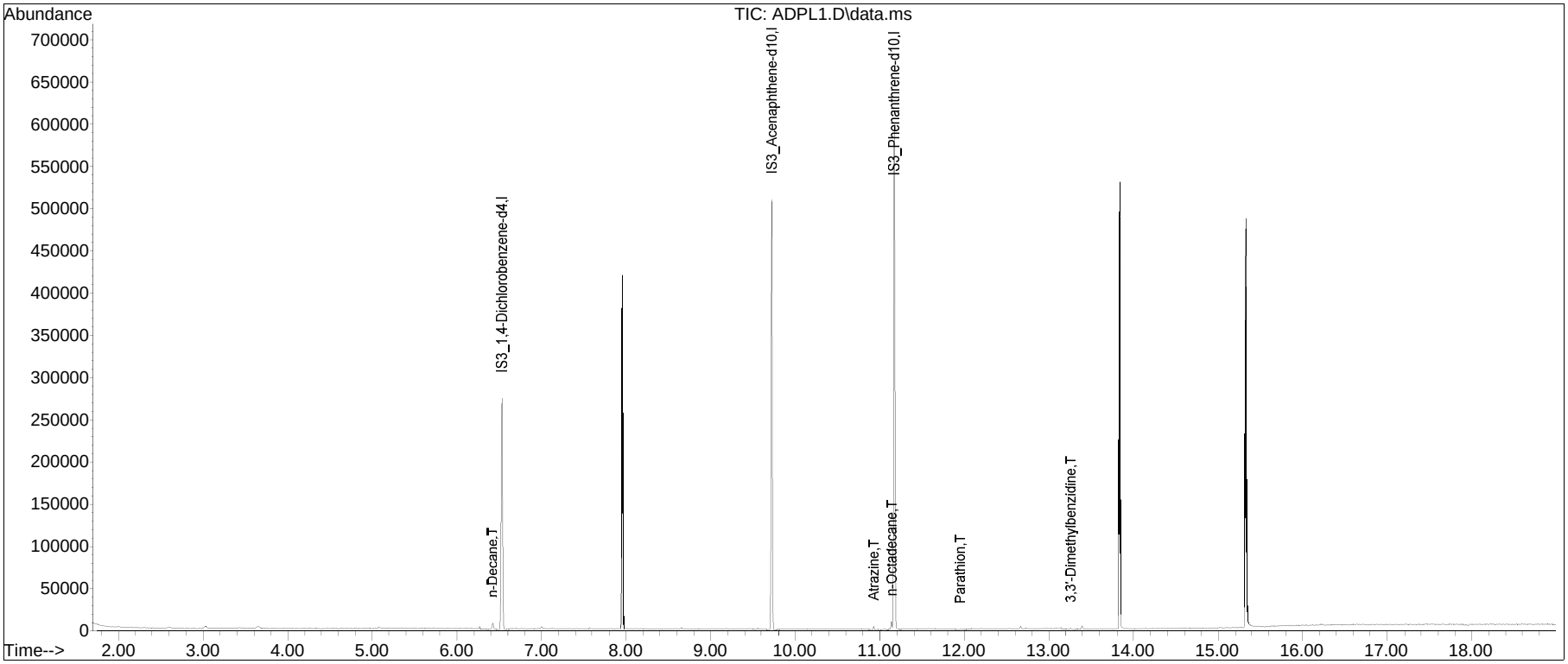
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL1.D
Acq On : 3 Jun 2024 7:50 am
Operator : SV107:jg
Sample : IL10,32,,ADPL0.1 Lot# 10717
Misc : WG1929644,,ical
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 03 16:04:10 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

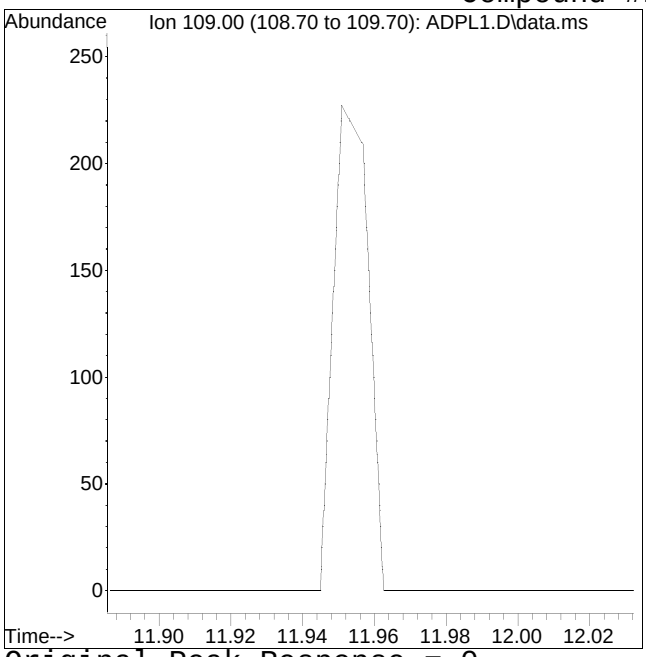
Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



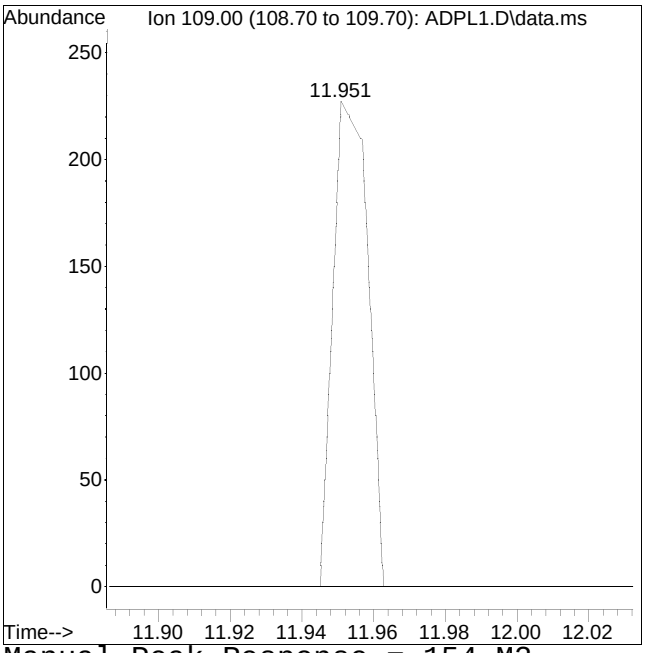
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ADPL1.D Operator : SV107:jg
Date Inj'd : 6/3/2024 7:50 am Instrument : SV107
Sample : IL10,32,,ADPL0.1 Lot# 1071 Quant Date : 6/3/2024 10:22 am

Compound #101: Parathion



Original Peak Response = 0



Manual Peak Response = 154 M2

M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240602ical\
Data File : ADPICV.D
Acq On : 3 Jun 2024 8:15 am
Operator : SV107:jg
Sample : CQICV3,32,,ADPICV Lot# 10690
Misc : WG1929644,,ical
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 03 16:27:51 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	103	0.00
33	T	n-Decane		1.447	1.410	2.6	109	0.00
85	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	104	0.00
86	T	Atrazine		0.347	0.330	4.9	97	0.00
99	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	105	0.00
100	T	n-Octadecane		0.393	0.408	-3.8	108	0.00
101	T	Parathion	*	5.000	3.951	21.0#	90	0.00
102	T	3,3'-Dimethylbenzidine		0.696	0.560	19.5	88	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPICV.D
Acq On : 3 Jun 2024 8:15 am
Operator : SV107:jg
Sample : CQICV3,32,,ADPICV Lot# 10690
Misc : WG1929644,,ical
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 03 16:27:51 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
32) IS3_1,4-Dichlorobenzen...	6.534	152	50098	4.000	ug/ml		0.00
Standard Area 2 = 48587			Recovery =	103.11%			
85) IS3_Acenaphthene-d10	9.727	164	112929	4.000	ug/ml		0.00
Standard Area 2 = 108359			Recovery =	104.22%			
99) IS3_Phenanthrene-d10	11.174	188	244668	4.000	ug/ml	#	0.00
Standard Area 2 = 233400			Recovery =	104.83%			
System Monitoring Compounds							
Target Compounds							Qvalue
33) n-Decane	6.422	57	88278	4.871	ug/ml	#	44
86) Atrazine	10.933	200	46602	4.755	ug/ml		95
100) n-Octadecane	11.139	57	124696	5.190	ug/ml	#	1
101) Parathion	11.957	109	16251	3.951	ug/ml		97
102) 3,3'-Dimethylbenzidine	13.262	212	171129	4.020	ug/ml		98

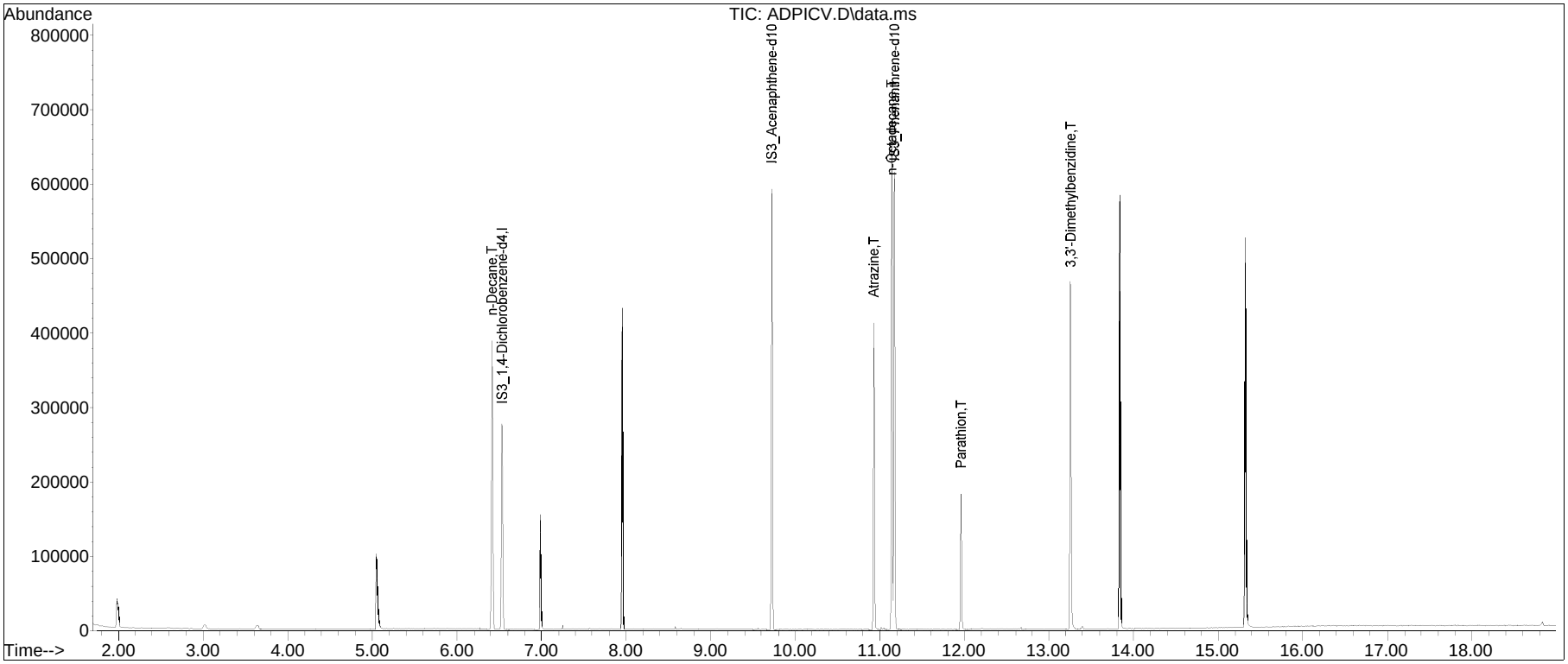
(#) = qualifier out of range (m) = manual integration (+) = signals summed

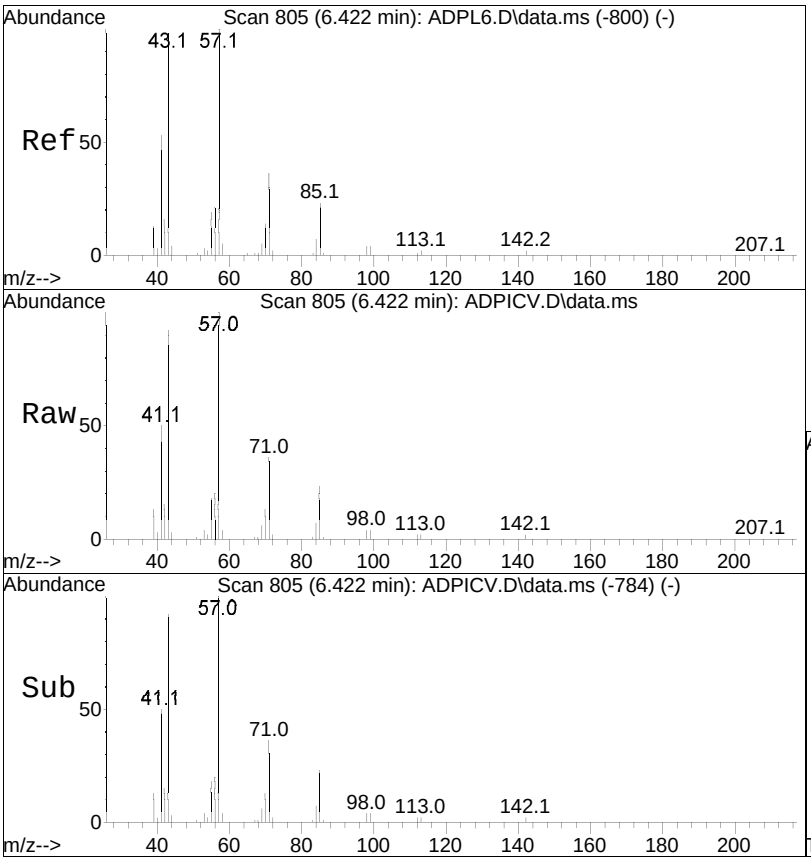
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPICV.D
Acq On : 3 Jun 2024 8:15 am
Operator : SV107:jg
Sample : CQICV3,32,,ADPICV Lot# 10690
Misc : WG1929644,,ical
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 03 16:27:51 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•

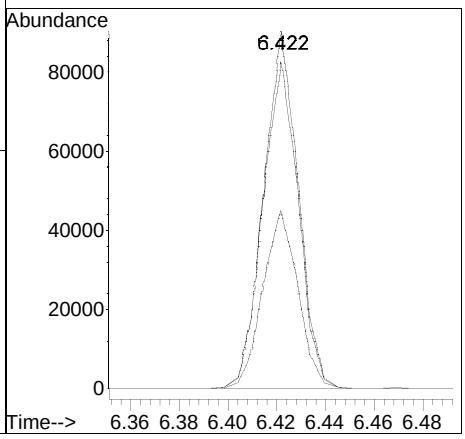


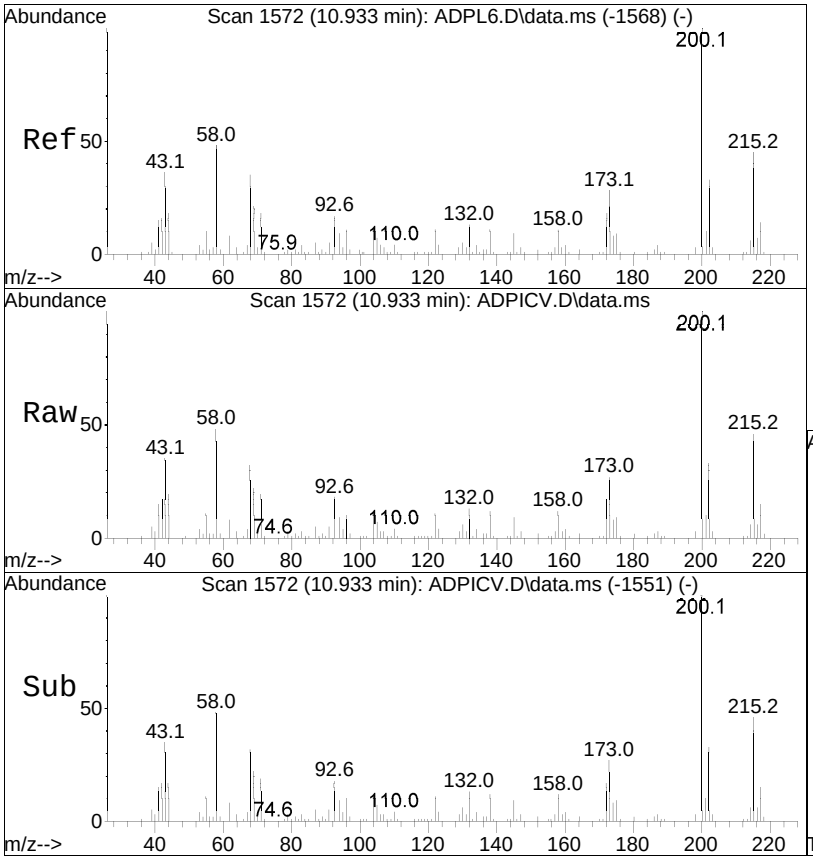


#33
n-Decane
Concen: 4.87 ug/ml
RT: 6.422 min Scan# 805
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 3 Jun 2024 8:15 am

Tgt Ion: 57 Resp: 88278

Ion	Ratio	Lower	Upper
57	100		
43	93.8	0.2	0.2#
41	50.7	0.2	0.2#

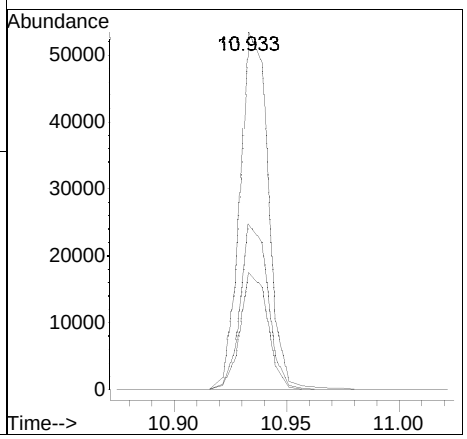


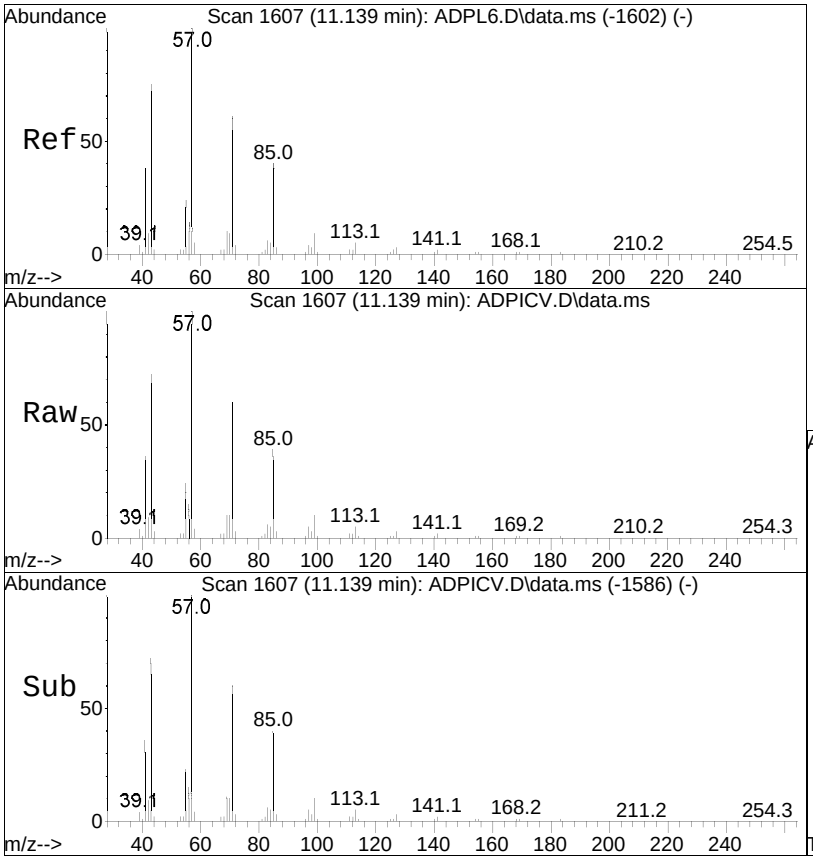


#86
Atrazine
Concen: 4.76 ug/ml
RT: 10.933 min Scan# 1572
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 3 Jun 2024 8:15 am

Tgt Ion:200 Resp: 46602

Ion	Ratio	Lower	Upper
200	100		
202	31.9	25.8	38.6
215	45.0	40.2	60.4

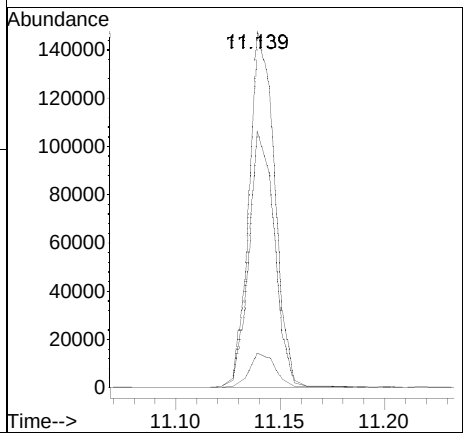


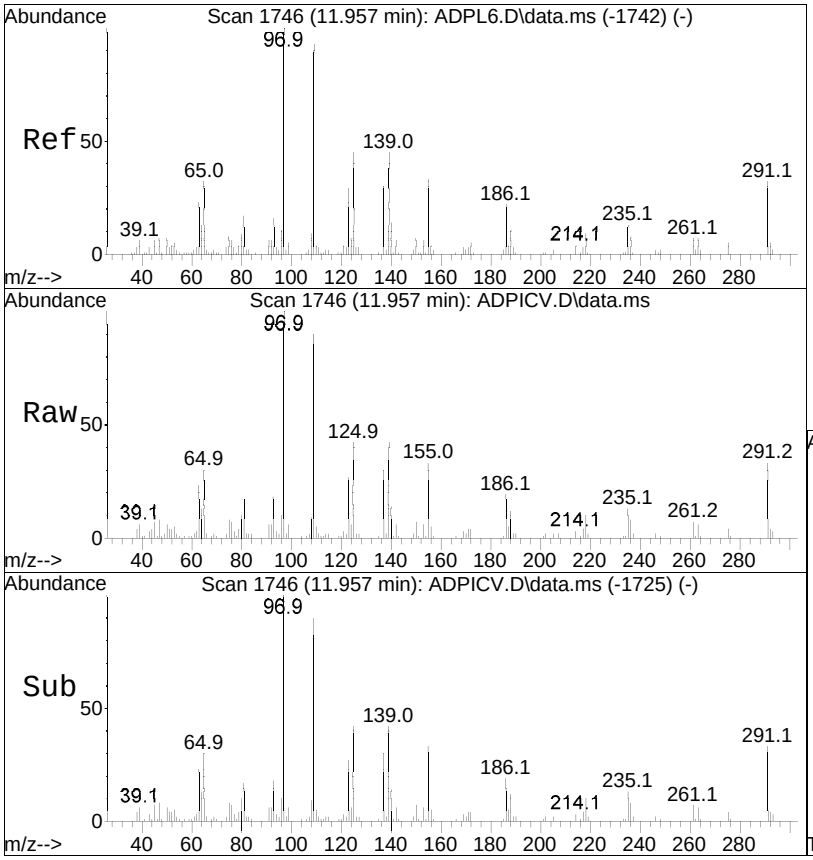


#100
n-Octadecane
Concen: 5.19 ug/ml
RT: 11.139 min Scan# 1607
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 3 Jun 2024 8:15 am

Tgt Ion: 57 Resp: 124696

Ion	Ratio	Lower	Upper
57	100		
43	72.2	9.0	13.6#
70	9.9	0.2	0.2#

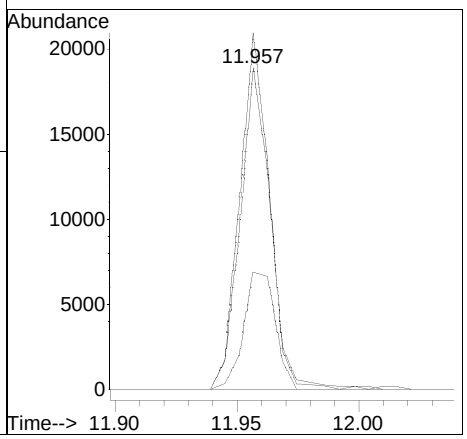


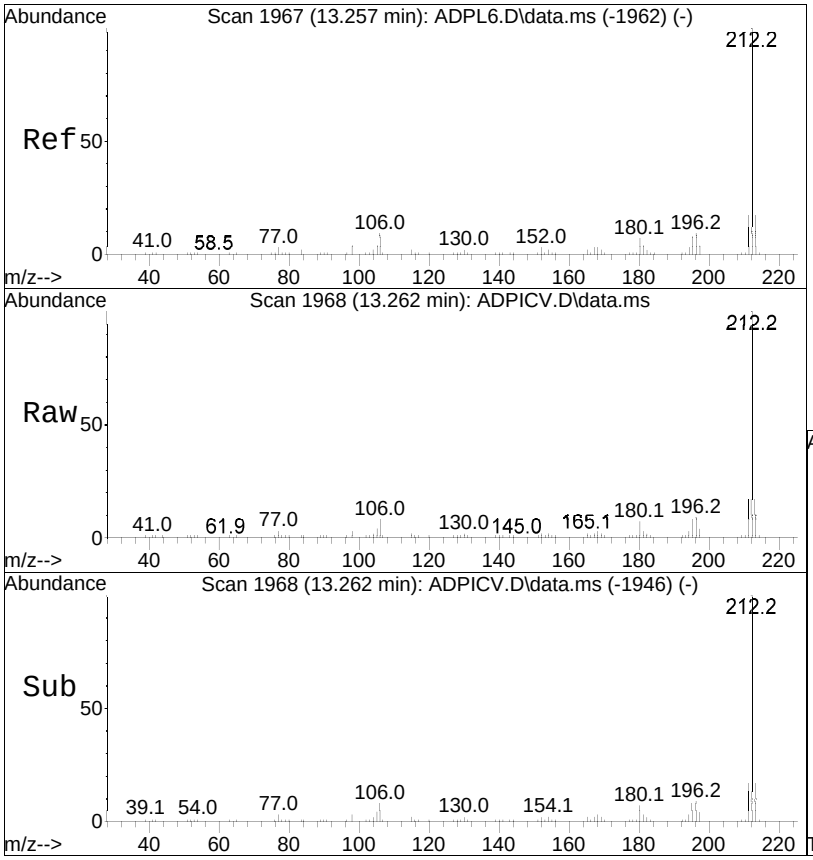


#101
Parathion
Concen: 3.95 ug/ml
RT: 11.957 min Scan# 1746
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 3 Jun 2024 8:15 am

Tgt Ion:109 Resp: 16251

Ion	Ratio	Lower	Upper
109	100		
97	107.2	87.4	131.2
291	38.3	34.2	51.2

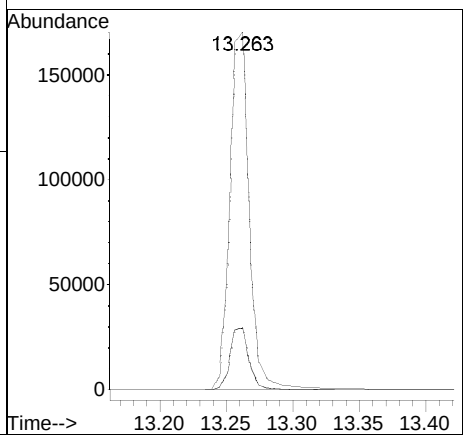




#102
3,3'-Dimethylbenzidine
Concen: 4.02 ug/ml
RT: 13.262 min Scan# 1968
Delta R.T. 0.005 min
Lab File: ADPICV.D
Acq: 3 Jun 2024 8:15 am

Tgt Ion:212 Resp: 171129

Ion	Ratio	Lower	Upper
212	100		
211	17.1	12.9	19.3
213	17.2	13.2	19.8



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPICV.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 8:15 am	Instrument	: SV107
Sample	: CQICV3,32,,ADPICV Lot# 106	Quant Date	: 6/3/2024 4:28 pm

There are no manual integrations or false positives in this file.

Evaluate Relative Error Report SV107

Method Path : I:\8270\SV107\240602ical\
Method File : FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 03 16:25:28 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
36	T Benzoic Acid	L	ug/ml	5.0	4.765	-4.7	2.50	2.683	7.3
65	T 2,4-Dinitrophenol	L	ug/ml	5.0	4.255	-14.9	1.00	1.308	30.8
67	T 2,4-Dinitrotoluene	L	ug/ml	5.0	4.264	-14.7	0.50	0.672	34.4
75	T 4,6-Dinitro-o-cresol	L	ug/ml	5.0	3.927	-21.5	0.50	0.735	47.0
83	T Dichloran	Q	ug/ml	5.0	4.317	-13.7	1.00	1.187	18.7
84	T Pentachloronitrobenzene	Q	ug/ml	5.0	4.537	-9.3	1.00	1.124	12.4
96	T Butyl benzyl phthalate	L	ug/ml	5.0	4.159	-16.8	0.50	0.670	34.0
101	T Parathion	Q	ug/ml	5.0	4.503	-9.9	0.50	0.593	18.6
107	T Bis(2-ethylhexyl)phthalate	L	ug/ml	5.0	4.326	-13.5	0.20	0.285	42.5
108	T Di-n-octylphthalate	L	ug/ml	5.0	4.163	-16.7	0.50	0.659	31.8

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
36	T Benzoic Acid	Linear	0.999239	0.000000	0.246525	-0.0877201
65	T 2,4-Dinitrophenol	Linear	0.992182	0.000000	0.171609	-0.0408051
67	T 2,4-Dinitrotoluene	Linear	0.994784	0.000000	0.417373	-0.0391465
75	T 4,6-Dinitro-o-cresol	Linear	0.991136	0.000000	0.230601	-0.0318046
83	T Dichloran	Quadratic	0.997786	0.004249	0.148025	-0.0234694
84	T Pentachloronitrobenzene	Quadratic	0.998992	0.002852	0.160738	-0.0192012
96	T Butyl benzyl phthalate	Linear	0.996221	0.000000	0.560774	-0.0556932
101	T Parathion	Quadratic	0.998691	0.004558	0.067987	-0.00517977
107	T Bis(2-ethylhexyl)phthalate	Linear	0.993524	0.000000	0.893249	-0.0402223
108	T Di-n-octylphthalate	Linear	0.991815	0.000000	1.53318	-0.162213

Response Factor Report Dakota

Method Path : I:\8270\Dakota\240531ical\
Method File : FS240531_14D_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Jun 05 17:45:08 2024
Response Via : Initial Calibration

Calibration Files
L1 =ADPL1.D L2 =ADPL2.D L3 =ADPL3.D L4 =ADPL4.D L5 =ADPL5.D L6 =ADPL6.D L7 =ADPL7.D
L8 =ADPL8.D L9 =ADPL9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------										
2)	t	N-Nitrosodimethylamine		0.597	0.697	0.555	0.633	0.620	0.652	0.673	0.718	0.643	8.34
3)	t	Pyridine	0.929	0.975	1.080	0.985	1.011	1.042	1.102	1.158	1.181	1.051	8.14
4)	S	2-Fluorophenol	1.113	0.992	0.994	0.905	0.932	0.952	1.018	1.041	1.081	1.003	6.79
5)	T	Aniline	1.681	1.816	1.630	1.404	1.488	1.596	1.653	1.656	1.700	1.625	7.40
6)	t	2-Chlorophenol	1.059	1.212	1.145	1.011	1.069	1.131	1.151	1.151	1.160	1.121	5.54
7)	S	Phenol-d6	1.072	1.411	1.263	1.105	1.167	1.233	1.277	1.320	1.349	1.244	9.03
8)	T	Phenol	1.360	1.452	1.355	1.264	1.330	1.396	1.441	1.465	1.476	1.393	5.14
9)	T	bis(2-Chloroethyl)ether	0.827	1.142	0.959	0.892	0.893	0.961	0.956	0.938	0.960	0.948	9.07
10)	T	1,3-Dichlorobenzene	1.477	1.532	1.540	1.291	1.355	1.375	1.419	1.386	1.419	1.422	5.80
11)	T	1,4-Dichlorobenzene	1.675	1.516	1.348	1.290	1.301	1.375	1.414	1.380	1.403	1.411	8.45
12)	T	1,2-Dichlorobenzene	1.415	1.526	1.388	1.239	1.293	1.371	1.384	1.330	1.330	1.364	5.96
13)	t	Benzyl alcohol	0.810	1.033	1.018	0.760	0.877	0.923	0.939	0.928	0.942	0.915	9.68
14)	T	bis(2-chloroisopropyl)ether	1.912	1.712	1.716	1.420	1.466	1.526	1.529	1.455	1.464	1.578	10.49
15)	T	2-Methylphenol	1.055	0.859	0.929	0.910	0.873	0.949	0.966	0.952	0.943	0.937	6.10
16)	T	Hexachloroethane		0.598	0.530	0.448	0.483	0.495	0.497	0.488	0.498	0.505	8.69
17)	T	n-Nitrosodi-n-propylamine	0.927	0.903	0.880	0.779	0.791	0.827	0.838	0.810	0.829	0.843	5.97
18)	T	3-Methylphenol/4-Methylphenol	1.003	1.050	1.083	0.960	0.982	1.036	1.039	1.033	1.012	1.022	3.64
19)	S	Nitrobenzene-d5	1.145	1.121	1.128	1.042	1.046	1.085	1.156	1.102	1.089	1.102	3.66
20)	T	Nitrobenzene	1.108	1.235	1.055	0.947	1.007	1.078	1.133	1.116	1.080	1.084	7.46
21)	T	Isophorone	2.238	1.985	2.154	2.074	2.004	2.100	2.155	2.108	2.080	2.100	3.71
22)	T	2-Nitrophenol		0.476	0.508	0.428	0.441	0.491	0.530	0.548	0.543	0.495	9.12
23)	T	2,4-Dimethylphenol	1.024	0.896	0.974	0.908	0.930	1.005	1.023	0.987	1.001	0.972	5.03
24)	T	bis(2-Chloroethoxy)methane	1.209	1.287	1.356	1.242	1.183	1.293	1.305	1.238	1.208	1.258	4.45
25)	T	2,4-Dichlorophenol	1.272	1.095	1.116	1.032	1.051	1.148	1.157	1.134	1.129	1.126	6.15
26)	T	1,2,4-Trichlorobenzene	1.345	1.418	1.458	1.278	1.280	1.372	1.382	1.320	1.312	1.352	4.54
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------										
28)	T	Benzaldehyde	0.889	1.087	1.067	0.956	0.937	0.844	0.961	0.943	0.948	0.959	8.00
29)	T	Acetophenone	1.630	1.366	1.691	1.604	1.597	1.530	1.656	1.630	1.636	1.593	6.03
30)	T	m-Toluidine	1.225	1.367	1.445	1.485	1.440	1.432	1.620	1.561	1.534	1.457	7.94
31)	T	2-Chloroaniline	1.373	1.338	1.521	1.435	1.420	1.389	1.543	1.481	1.468	1.441	4.75
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------										
33)	T	1,4-Dioxane	0.532	0.405	0.484	0.430	0.424	0.413	0.412	0.418	0.440	0.440	9.49
34)	T	n-Decane	1.089	1.363	1.228	1.211	1.067	1.086	1.131	1.124	1.177	1.164	8.04
35)	I	IS1_Naphthalene-d8	----------ISTD----------										
36)	T	Naphthalene	1.016	1.098	1.062	0.880	0.923	0.907	0.971	0.902	0.919	0.964	8.06
37)	T	Benzoic Acid				0.049	0.112	0.150	0.203	0.216	0.237	*L	0.9958
38)	T	4-Chloroaniline		0.125	0.123	0.116	0.114	0.106	0.121	0.117	0.120	0.118	5.12
39)	T	Hexachlorobutadiene	0.208	0.241	0.253	0.211	0.220	0.219	0.235	0.223	0.240	0.228	6.69
40)	T	p-Chloro-m-cresol	0.255	0.255	0.266	0.244	0.251	0.249	0.276	0.267	0.284	0.261	5.11
41)	T	2-Methylnaphthalene	0.720	0.740	0.725	0.634	0.667	0.650	0.706	0.667	0.701	0.690	5.31
42)	T	1-Methylnaphthalene	0.275	0.216	0.256	0.222	0.225	0.217	0.222	0.216	0.222	0.230	9.03
43)	T	Hexachlorocyclopentadiene	0.229	0.237	0.250	0.231	0.230	0.226	0.255	0.244	0.267	0.241	5.81
44)	T	2,4,6-Trichlorophenol	0.248	0.293	0.255	0.247	0.259	0.257	0.287	0.269	0.287	0.267	6.69
45)	T	2,4,5-Trichlorophenol	0.331	0.290	0.280	0.261	0.275	0.281	0.305	0.292	0.297	0.290	6.92

Response Factor Report Dakota

Method Path : I:\8270\Dakota\240531ical\
Method File : FS240531_14D_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Jun 05 17:45:08 2024
Response Via : Initial Calibration

Calibration Files
L1 =ADPL1.D L2 =ADPL2.D L3 =ADPL3.D L4 =ADPL4.D L5 =ADPL5.D L6 =ADPL6.D L7 =ADPL7.D
L8 =ADPL8.D L9 =ADPL9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
46)	S	2-Fluorobiphenyl	1.050	1.041	0.974	0.895	0.876	0.840	0.905	0.840	0.856	0.920	8.94
47)	T	2-Chloronaphthalene	0.834	0.789	0.826	0.715	0.740	0.720	0.761	0.716	0.729	0.759	6.17
48)	T	2-Nitroaniline			0.164	0.158	0.169	0.169	0.193	0.197	0.201	0.179	9.86
49)	T	1,4-Dinitrobenzene		0.082	0.073	0.062	0.079	0.075	0.083	0.090	0.093	0.080	12.49
50)	T	1,3-Dinitrobenzene	0.061	0.097	0.078	0.077	0.089	0.088	0.102	0.105	0.105	0.089	16.95
51)	T	Dimethyl phthalate	0.952	0.966	0.956	0.823	0.893	0.849	0.918	0.850	0.853	0.896	6.05
52)	T	Acenaphthylene	1.337	1.237	1.161	1.073	1.107	1.049	1.118	1.048	1.045	1.130	8.83
53)	T	2,6-Dinitrotoluene		0.170	0.132	0.151	0.149	0.146	0.168	0.172	0.170	0.157	9.43
54)	T	1,2-Dinitrobenzene		0.057	0.046	0.048	0.054	0.053	0.059	0.063	0.061	0.055	10.80
55)	I	IS2_Naphthalene-d8	----------ISTD----------										
56)	T	a-Terpineol	0.264	0.243	0.243	0.236	0.243	0.233	0.252	0.254	0.260	0.248	4.30
57)	T	3-Chloroaniline	0.163	0.123	0.129	0.134	0.140	0.127	0.138	0.135	0.139	0.136	8.42
58)	T	2,6-Dichlorophenol	0.325	0.321	0.313	0.307	0.306	0.310	0.332	0.325	0.330	0.319	3.10
59)	T	1-chloro-2-nitrobenzene	0.099	0.138	0.118	0.120	0.110	0.115	0.128	0.126	0.132	0.121	9.88
60)	T	Caprolactam				0.111	0.119	0.124	0.138	0.140	0.143	0.129	10.23
61)	T	1,2,4,5-Tetrachlorobenzene	0.462	0.507	0.464	0.443	0.429	0.424	0.446	0.431	0.433	0.449	5.79
62)	T	Biphenyl	1.000	1.012	0.985	0.910	0.889	0.871	0.940	0.891	0.879	0.931	5.92
63)	I	IS1_Acenaphthene-d10	----------ISTD----------										
64)	T	3-Nitroaniline	0.173	0.215	0.228	0.230	0.237	0.237	0.270	0.273	0.264	0.236	13.31
65)	T	Acenaphthene	1.093	1.103	1.053	0.965	0.953	0.912	0.988	0.942	0.923	0.993	7.32
66)	T	2,4-Dinitrophenol				0.084	0.102	0.114	0.139	0.151	0.148	*L	0.9982
67)	T	Dibenzofuran	1.690	1.823	1.893	1.644	1.649	1.557	1.671	1.570	1.488	1.665	7.65
68)	T	2,4-Dinitrotoluene	0.240	0.279	0.280	0.270	0.299	0.302	0.342	0.348	0.330	0.299	11.95
69)	T	4-Nitrophenol	0.173	0.188	0.196	0.191	0.207	0.210	0.232	0.231	0.214	0.205	9.52
70)	T	2,3,5,6-Tetrachlorophenol			0.368	0.338	0.357	0.355	0.398	0.385	0.383	0.369	5.62
71)	T	2,3,4,6-Tetrachlorophenol			0.343	0.334	0.362	0.342	0.369	0.373	0.366	0.355	4.38
72)	T	Diethyl phthalate	1.422	1.602	1.519	1.314	1.306	1.259	1.336	1.262	1.235	1.362	9.32
73)	T	Fluorene	1.327	1.548	1.398	1.328	1.287	1.227	1.326	1.257	1.210	1.323	7.75
74)	T	4-Chlorophenyl-phenylether	0.738	0.813	0.822	0.699	0.680	0.639	0.687	0.631	0.612	0.702	10.77
75)	T	4-Nitroaniline	0.213	0.274	0.241	0.214	0.252	0.261	0.285	0.274	0.251	0.252	10.12
76)	T	4,6-Dinitro-o-cresol				0.130	0.148	0.159	0.184	0.199	0.196	*L	0.9986
77)	T	NDPA/DPA	1.159	1.275	1.233	1.156	1.095	1.082	1.149	1.088	1.034	1.141	6.70
78)	T	Azobenzene	1.280	1.254	1.232	1.160	1.107	1.052	1.132	1.050	1.009	1.142	8.52
79)	S	2,4,6-Tribromophenol	0.152	0.162	0.179	0.193	0.189	0.187	0.207	0.206	0.205	0.187	10.38
80)	T	4-Bromophenyl-phenylether	0.466	0.459	0.484	0.426	0.411	0.407	0.433	0.421	0.419	0.436	6.19
81)	T	Hexachlorobenzene	0.532	0.564	0.535	0.506	0.492	0.450	0.493	0.477	0.472	0.502	7.17
82)	T	Pentachlorophenol				0.258	0.286	0.290	0.326	0.338	0.340	*L	0.9994
83)	I	IS2_Acenaphthene-d10	----------ISTD----------										
84)	T	Dichloran				0.131	0.147	0.139	0.174	0.185	0.202	*L	0.9951
85)	T	Pentachloronitrobenzene		0.137	0.153	0.127	0.152	0.162	0.177	0.185	0.192	0.160	14.29
86)	I	IS3_Acenaphthene-d10	----------ISTD----------										
87)	T	Atrazine	0.406	0.447	0.408	0.464	0.390	0.391	0.429	0.424	0.451	0.423	6.32
88)	I	IS1_Phenanthrene-d10	----------ISTD----------										
89)	T	Phenanthrene	1.071	1.185	1.052	0.983	0.974	0.923	1.010	0.924	0.902	1.003	8.94
90)	T	Anthracene	1.015	1.096	1.031	0.948	0.963	0.927	1.020	0.931	0.891	0.980	6.59

Response Factor Report Dakota

Method Path : I:\8270\Dakota\240531ical\
Method File : FS240531_14D_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Jun 05 17:45:08 2024
Response Via : Initial Calibration

Calibration Files
L1 =ADPL1.D L2 =ADPL2.D L3 =ADPL3.D L4 =ADPL4.D L5 =ADPL5.D L6 =ADPL6.D L7 =ADPL7.D
L8 =ADPL8.D L9 =ADPL9.D

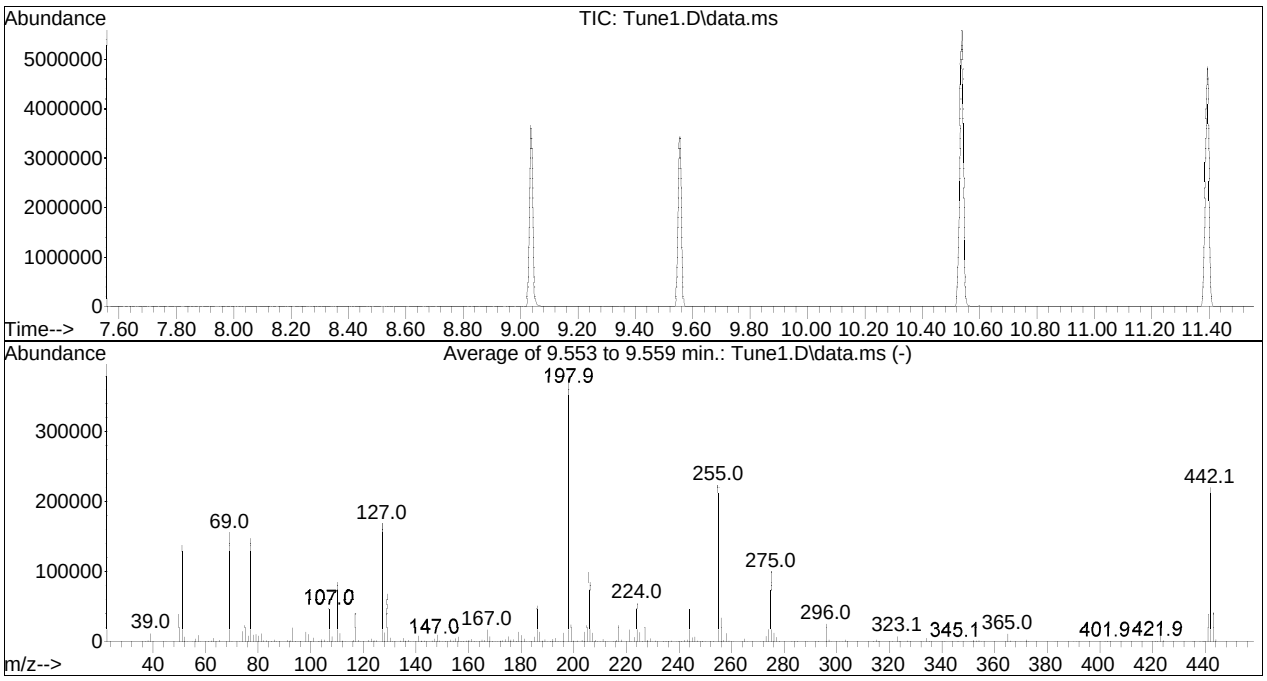
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD	
91)	T	Carbazole	1.119	1.030	1.005	0.882	0.907	0.883	0.963	0.892	0.858	0.949	9.21	
92)	T	Di-n-butylphthalate	1.061	1.075	1.052	0.962	1.005	0.981	1.106	1.019	1.023	1.032	4.47	
93)	T	Fluoranthene	1.586	1.471	1.273	1.184	1.207	1.162	1.293	1.194	1.147	1.280	11.86	
94)	T	Benzidine	0.569	0.699	0.689	0.662	0.750	0.758	0.854	0.818	0.800	0.733	12.05	
95)	T	Pyrene	1.638	1.555	1.407	1.274	1.291	1.224	1.343	1.222	1.140	1.344	12.15	
96)	S	4-Terphenyl-d14	1.164	1.153	1.072	0.950	0.952	0.925	0.989	0.917	0.890	1.001	10.29	
97)	T	Butyl benzyl phthalate	0.539	0.486	0.418	0.392	0.431	0.443	0.517	0.509	0.520	0.473	11.15	
98)	I	IS2_Phenanthrene-d10	----------ISTD----------											
99)	T	Diphenamid	0.469	0.452	0.494	0.432	0.445	0.455	0.488	0.494	0.509	0.471	5.60	
100)	I	IS3_Phenanthrene-d10	----------ISTD----------											
101)	T	n-Octadecane	0.326	0.333	0.308	0.365	0.299	0.308	0.323	0.330	0.335	0.325	6.01	
102)	T	Parathion			0.074	0.088	0.064	0.074	0.079	0.095	0.109		*Q	0.9989
103)	T	3,3'-Dimethylbenzidine			0.557	0.760	0.694	0.733	0.806	0.886	0.899		*Q	0.9990
104)	I	IS1_Chrysene-d12	----------ISTD----------											
105)	T	Benzo[a]anthracene	1.767	1.644	1.409	1.292	1.270	1.184	1.325	1.269	1.243	1.378	14.34	
106)	T	3,3'-Dichlorobenzidine	0.459	0.447	0.447	0.431	0.452	0.451	0.521	0.521	0.528	0.473	8.16	
107)	T	Chrysene		1.591	1.438	1.246	1.217	1.130	1.251	1.126	1.105	1.263	13.47	
108)	T	bis(2-Ethylhexyl)phthalate	0.717	0.634	0.638	0.599	0.621	0.630	0.732	0.688	0.736	0.666	7.86	
109)	T	Di-n-octylphthalate	1.053	1.061	1.075	0.944	1.040	1.071	1.299	1.295	1.389	1.136	13.29	
110)	T	Benzo(b)fluoranthene	1.729	1.651	1.449	1.275	1.268	1.254	1.390	1.362	1.384	1.418	11.88	
111)	T	Benzo(k)fluoranthene	1.622	1.523	1.434	1.295	1.317	1.155	1.328	1.254	1.281	1.357	10.66	
112)	T	Benzo(a)pyrene	1.401	1.444	1.262	1.142	1.165	1.137	1.271	1.243	1.296	1.262	8.58	
113)	I	IS1_Perylene-d12	----------ISTD----------											
114)	T	Indeno(1,2,3-cd)pyrene	1.206	1.272	1.109	1.102	1.094	1.146	1.220	1.255	1.271	1.186	6.23	
115)	T	Dibenzo[a,h]anthracene	1.119	1.126	1.206	1.018	1.048	1.009	1.137	1.081	1.055	1.089	5.86	
116)	T	Benzo(g,h,i)perylene	1.118	1.215	1.140	1.036	1.034	0.998	1.099	1.060	1.081	1.087	6.04	

(#) = Out of Range

Data Path : I:\8270\Dakota\240531ical\
Data File : Tune1.D
Acq On : 31 May 2024 5:39 pm
Operator : Dakota:mrg
Sample : Tune
Misc : WG1930266,,
ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Jun 05 17:45:08 2024



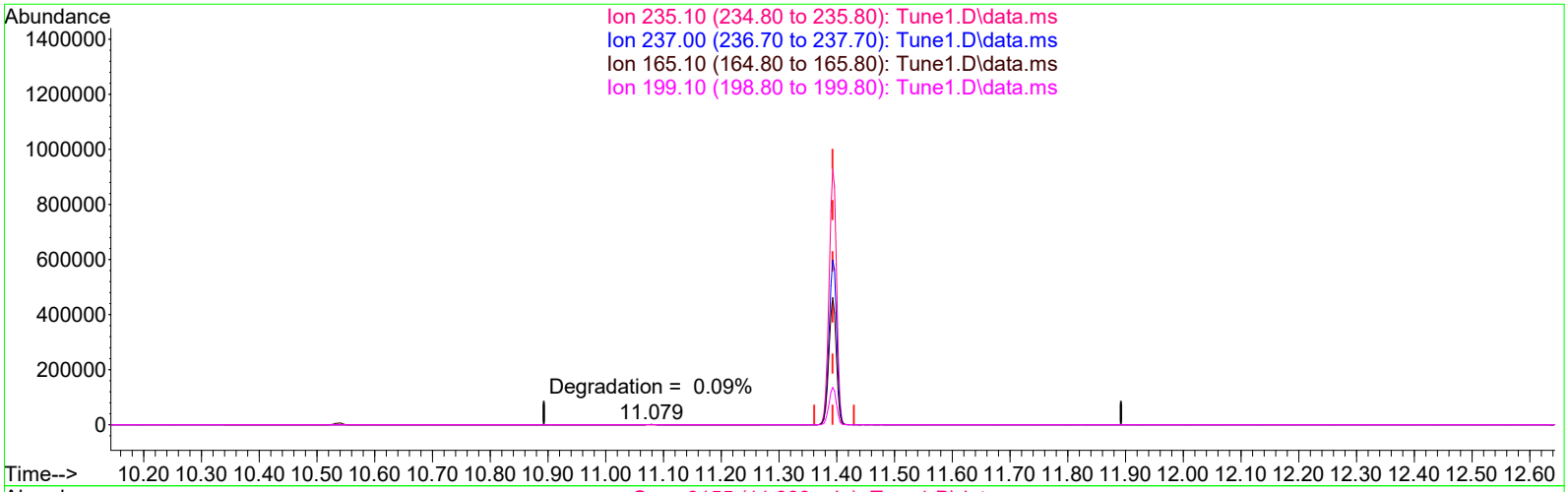
Spectrum Information: Average of 9.553 to 9.559 min.

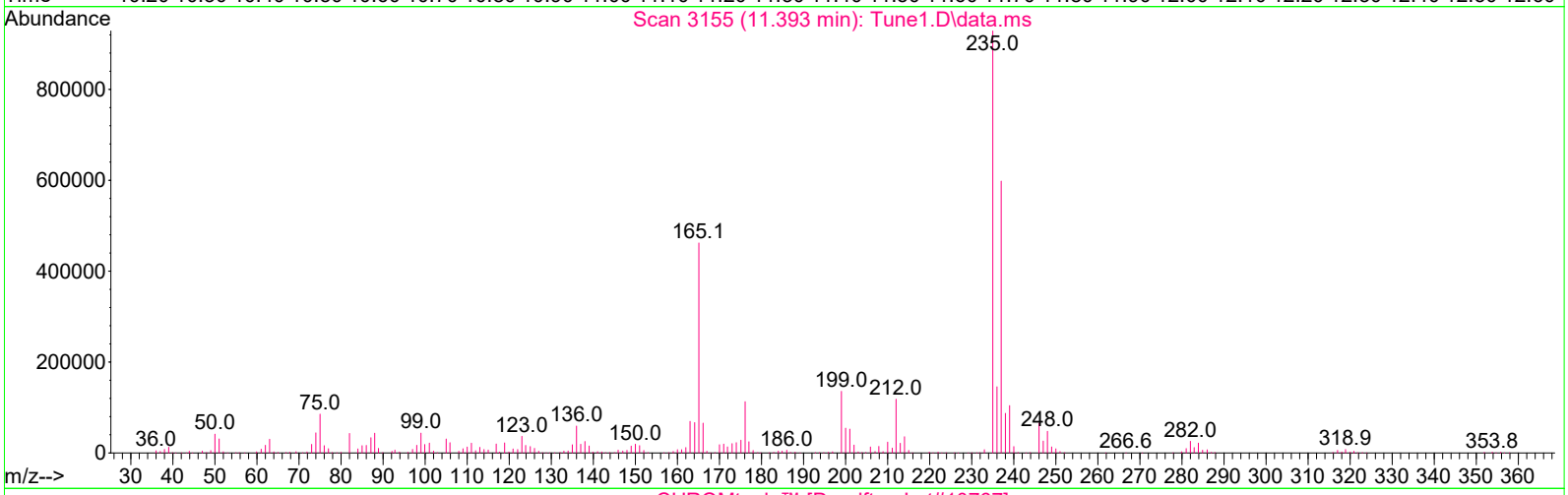
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.2	136605	PASS
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	155472	PASS
70	69	0.00	2	0.6	929	PASS
127	198	10	80	44.7	168741	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	377344	PASS
199	198	5	9	6.5	24469	PASS
275	198	10	60	26.3	99419	PASS
365	198	1	100	2.9	10999	PASS
441	442	0.01	24	17.6	38520	PASS
442	198	50	100	58.1	219285	PASS
443	442	15	24	19.1	41973	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240531ical\
Data File : Tune1.D
Acq On : 31 May 2024 5:39 pm
Operator : Dakota:mrg
Sample : Degdftpp Lot#10767
Misc : WG1930266
ALS Vial : 100 Sample Multiplier: 1

Quant Time: May 31 18:02:29 2024
Quant Method : I:\8270\Dakota\240531ical\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri May 31 12:01:17 2024
Response via : Initial Calibration





CHROMtools™ [Degdftpp Lot#10767]

(6) DDT (T)

11.393min (-0.000) 137.83

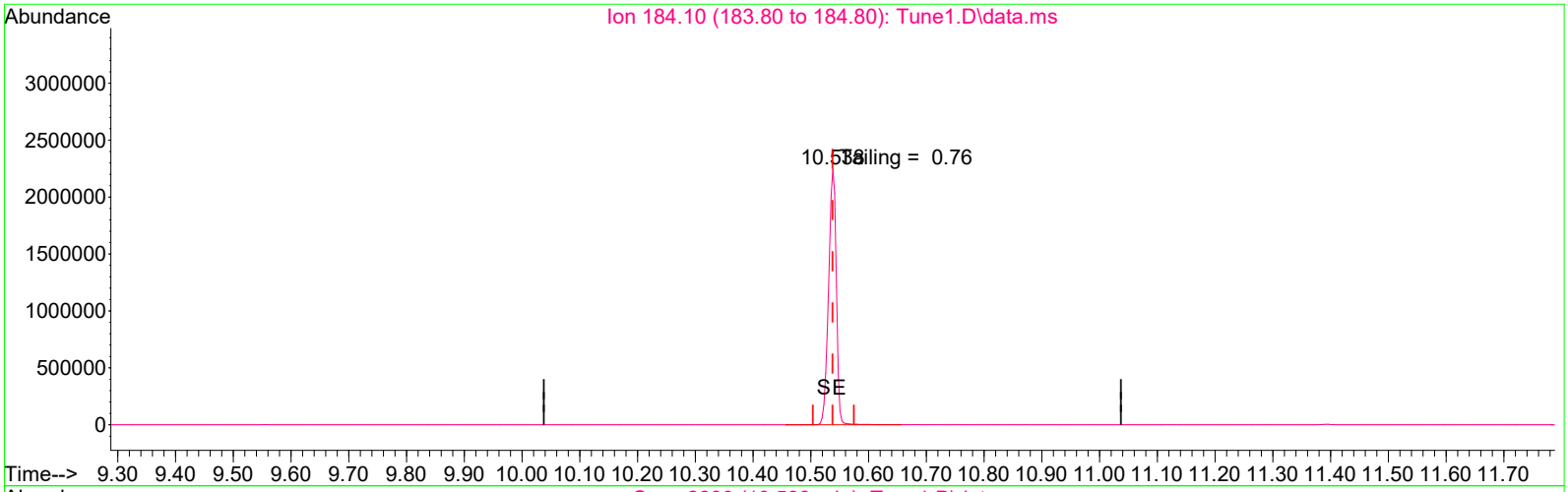
response 840165

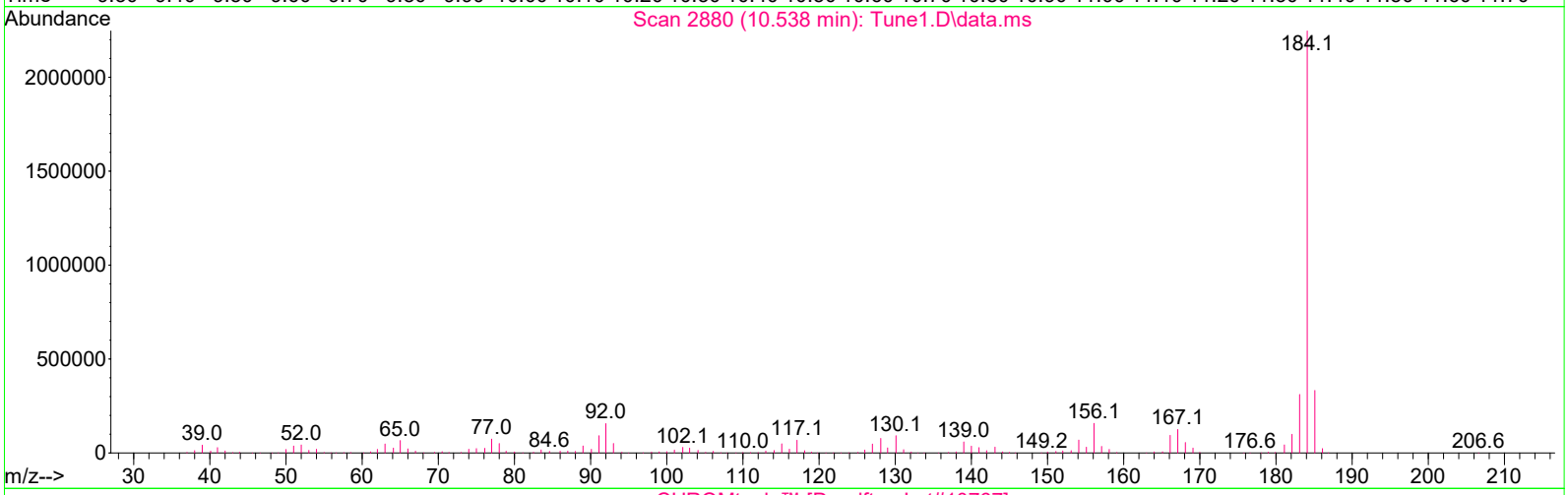
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	66.20	65.14
165.10	47.40	48.62
199.10	13.90	14.59

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240531ical\
Data File : Tune1.D
Acq On : 31 May 2024 5:39 pm
Operator : Dakota:mrg
Sample : Degdftpp Lot#10767
Misc : WG1930266
ALS Vial : 100 Sample Multiplier: 1

Quant Time: May 31 18:02:29 2024
Quant Method : I:\8270\Dakota\240531ical\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri May 31 12:01:17 2024
Response via : Initial Calibration





CHROMtools™ [Degdftpp Lot#10767]

(3) Benzidine (T)

10.538min (+ 0.000) 205.07

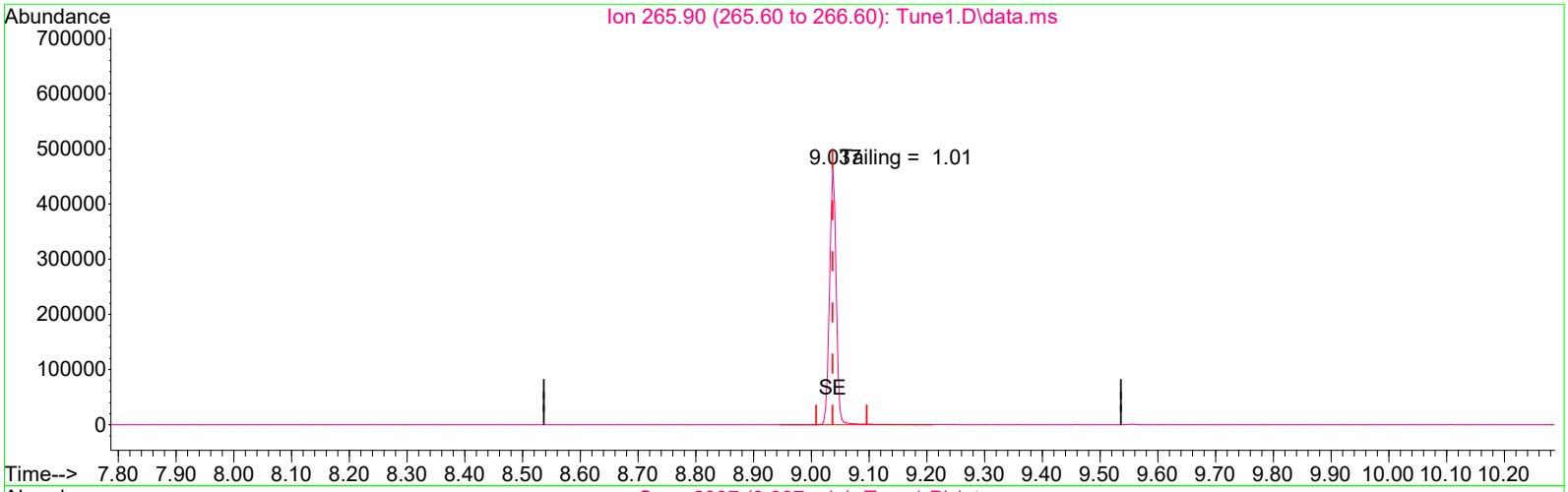
response 2087654

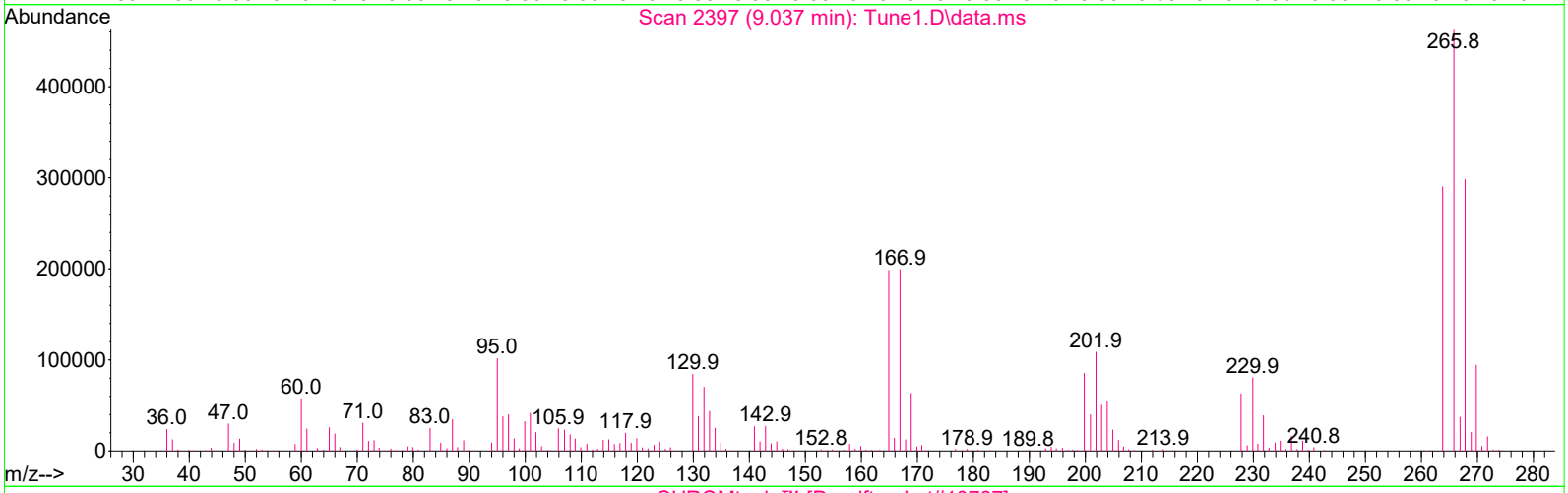
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240531ical\
Data File : Tune1.D
Acq On : 31 May 2024 5:39 pm
Operator : Dakota:mrg
Sample : Degdftpp Lot#10767
Misc : WG1930266
ALS Vial : 100 Sample Multiplier: 1

Quant Time: May 31 18:02:29 2024
Quant Method : I:\8270\Dakota\240531ical\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri May 31 12:01:17 2024
Response via : Initial Calibration





CHROMtools™ [Degdftpp Lot#10767]

(1) Pentachlorophenol (T)

9.037min (0.000) 175.96

response 369589

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL9.D
Acq On : 31 May 2024 6:03 pm
Operator : Dakota:mrg
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1930266
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 18:02:54 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:03:27 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.829	152	31028	4.000	ug/ml	0.00
Standard Area 1 = 30198			Recovery = 102.75%			
35) IS1_Naphthalene-d8	6.066	136	104036	4.000	ug/ml	0.00
Standard Area 1 = 112237			Recovery = 92.69%			
63) IS1_Acenaphthene-d10	7.772	164	71156	4.000	ug/ml	0.00
Standard Area 1 = 76464			Recovery = 93.06%			
88) IS1_Phenanthrene-d10	9.205	188	154504	4.000	ug/ml	0.00
Standard Area 1 = 170352			Recovery = 90.70%			
104) IS1_Chrysene-d12	11.859	240	150917	4.000	ug/ml	0.00
Standard Area 1 = 183196			Recovery = 82.38%			
113) IS1_Perylene-d12	13.323	264	191379	4.000	ug/ml	0.00
Standard Area 1 = 212317			Recovery = 90.14%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.561	112	419215	53.878	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 2693.90%#			
7) Phenol-d6	4.505	99	523031	54.204	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 2710.20%#			
19) Nitrobenzene-d5	5.369	82	422365	49.429	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 4942.90%#			
46) 2-Fluorobiphenyl	7.135	172	1113197	46.545	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 4654.50%#			
79) 2,4,6-Tribromophenol	8.540	330	182129	54.853	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 2742.65%#			
96) 4-Terphenyl-d14	10.787	244	1719705	44.465	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 4446.50%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.190	74	278658	55.844	ug/ml#	85
3) Pyridine	2.215	79	458177	56.174	ug/ml#	59
5) Aniline	4.508	93	659195	52.302	ug/ml#	46
6) 2-Chlorophenol	4.623	128	450008	51.744	ug/ml#	89
8) Phenol	4.518	94	572633	52.983	ug/ml#	44
9) Bis(2-chloroethyl)ether	4.589	93	372365	50.658	ug/ml	97
10) 1,3-Dichlorobenzene	4.773	146	550550	49.924	ug/ml	94
11) 1,4-Dichlorobenzene	4.844	146	544231	49.712	ug/ml	95
12) 1,2-Dichlorobenzene	4.990	146	516013	48.763	ug/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL9.D
Acq On : 31 May 2024 6:03 pm
Operator : Dakota:mrg
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1930266
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 18:02:54 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:03:27 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	4.978	79	365403	51.507	ug/ml	97
14) Bis(2-chloroisopropyl)...	5.118	45	567873	46.399	ug/ml#	52
15) 2-Methylphenol	5.102	108	365922	50.318	ug/ml	99
16) Hexachloroethane	5.320	117	193282	49.381	ug/ml#	47
17) n-Nitrosodi-n-propylamine	5.248	70	321426	49.180	ug/ml#	88
18) 3-Methylphenol/4-Methy...	5.261	108	392374	49.494	ug/ml	98
20) Nitrobenzene	5.388	77	418779	49.785	ug/ml	97
21) Isophorone	5.631	82	806772	49.533	ug/ml	95
22) 2-Nitrophenol	5.702	139	210414	54.748	ug/ml	88
23) 2,4-Dimethylphenol	5.774	107	388310	51.490	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.861	93	468507	48.012	ug/ml#	96
25) 2,4-Dichlorophenol	5.938	162	438063	50.151	ug/ml#	92
26) 1,2,4-Trichlorobenzene	6.019	180	508895	48.540	ug/ml	96
36) Naphthalene	6.084	128	1194699	47.631	ug/ml	98
37) Benzoic Acid	5.916	105	308304	51.836	ug/ml	94
38) 4-Chloroaniline	6.150	65	156411	51.036	ug/ml	81
39) Hexachlorobutadiene	6.230	225	311853	52.684	ug/ml	100
40) p-Chloro-m-cresol	6.644	107	369178	54.410	ug/ml	89
41) 2-Methylnaphthalene	6.765	142	912106	50.824	ug/ml	98
42) 1-Methylnaphthalene	6.858	115	288715	48.221	ug/ml	99
43) Hexachlorocyclopentadiene	6.933	237	347673	55.423	ug/ml	98
44) 2,4,6-Trichlorophenol	7.048	196	373632	53.824	ug/ml	99
45) 2,4,5-Trichlorophenol	7.079	196	386835	51.237	ug/ml	100
47) 2-Chloronaphthalene	7.231	162	948028	48.025	ug/ml	92
48) 2-Nitroaniline	7.343	138	260768	56.128	ug/ml	85
49) 1,4-Dinitrobenzene	7.474	168	120831	58.369	ug/ml	82
50) 1,3-Dinitrobenzene	7.551	168	136095	58.698	ug/ml#	1
51) Dimethyl phthalate	7.545	163	1109915	47.644	ug/ml#	97
52) Acenaphthylene	7.632	152	1358752	46.213	ug/ml	96
53) 2,6-Dinitrotoluene	7.589	165	221171	54.045	ug/ml#	79
54) 1,2-Dinitrobenzene	7.635	168	78768	54.811	ug/ml#	1
64) 3-Nitroaniline	7.744	138	234642	55.824	ug/ml	91
65) Acenaphthene	7.803	154	821300	46.510	ug/ml	89
66) 2,4-Dinitrophenol	7.843	184	131692	49.970	ug/ml#	80
67) Dibenzofuran	7.974	168	1323665	44.689	ug/ml	93
68) 2,4-Dinitrotoluene	7.977	165	293837	55.255	ug/ml	94
69) 4-Nitrophenol	7.927	65	189980	52.193	ug/ml#	82
70) 2,3,5,6-Tetrachlorophenol	8.061	232	340803	51.892	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL9.D
Acq On : 31 May 2024 6:03 pm
Operator : Dakota:mrg
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1930266
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 18:02:54 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:03:27 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	8.101	232	325598	51.505	ug/ml		99
72)	Diethyl phthalate	8.235	149	1098530	45.348	ug/ml		98
73)	Fluorene	8.307	166	1076198	45.726	ug/ml		93
74)	4-Chlorophenyl phenyl ...	8.319	204	544565	43.586	ug/ml	#	85
75)	4-Nitroaniline	8.341	138	223372	49.883	ug/ml	#	84
76)	4,6-Dinitro-o-cresol	8.372	198	174129	49.993	ug/ml	#	56
77)	NDPA/DPA	8.437	169	919651	45.295	ug/ml		92
78)	Azobenzene	8.471	77	897879	44.207	ug/ml		96
80)	4-Bromophenyl phenyl e...	8.788	248	372671M3	48.030	ug/ml		
81)	Hexachlorobenzene	8.844	284	419461	46.941	ug/ml	#	81
82)	Pentachlorophenol	9.037	266	301999	50.242	ug/ml		98
89)	Phenanthrene	9.230	178	1742101	44.984	ug/ml		98
90)	Anthracene	9.279	178	1721075	45.456	ug/ml		96
91)	Carbazole	9.444	167	1656754	45.202	ug/ml		96
92)	Di-n-butylphthalate	9.823	149	1975930	49.591	ug/ml		97
93)	Fluoranthene	10.386	202	2215732	44.824	ug/ml	#	89
94)	Benzidine	10.535	184	1544919	54.549	ug/ml	#	93
95)	Pyrene	10.603	202	2202175	42.419	ug/ml		96
97)	Butyl benzyl phthalate	11.312	149	1004124	54.993	ug/ml		86
105)	Benzo(a)anthracene	11.847	228	2344713	45.095	ug/ml		96
106)	3,3'-Dichlorobenzidine	11.844	252	996013	55.813	ug/ml	#	95
107)	Chrysene	11.887	228	2084305	43.742	ug/ml		96
108)	Bis(2-ethylhexyl)phtha...	11.949	149	1388136	55.228	ug/ml	#	94
109)	Di-n-octylphthalate	12.630	149	2620429	61.114	ug/ml	#	75
110)	Benzo(b)fluoranthene	12.963	252	2611403	48.811	ug/ml	#	91
111)	Benzo(k)fluoranthene	12.994	252	2416982M3	47.218	ug/ml		
112)	Benzo(a)pyrene	13.280	252	2444830M2	51.338	ug/ml		
114)	Indeno(1,2,3-cd)pyrene	14.296	276	3040142M6	53.568	ug/mL		
115)	Dibenzo(a,h)anthracene	14.315	278	2524486	48.467	ug/ml	#	88
116)	Benzo(ghi)perylene	14.517	276	2585120	49.722	ug/ml	#	84

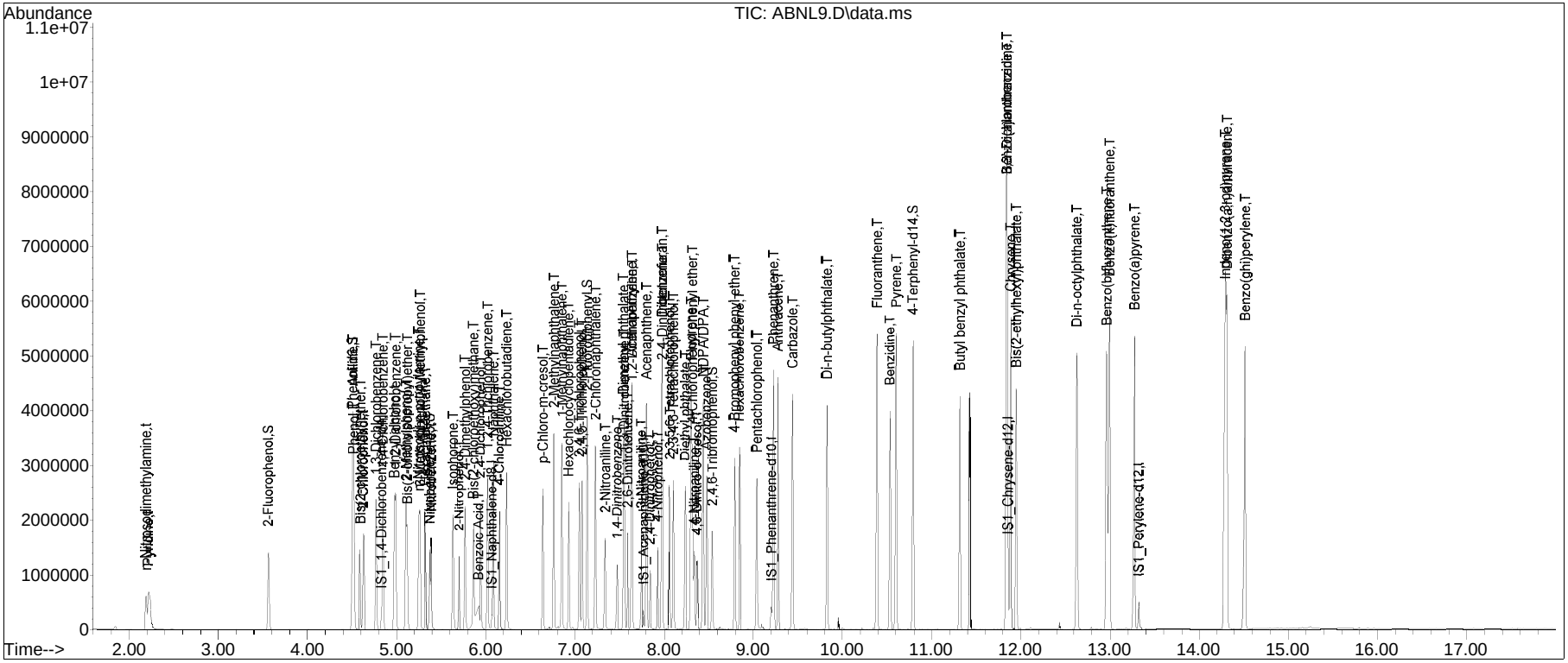
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL9.D
Acq On : 31 May 2024 6:03 pm
Operator : Dakota:mrg
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1930266
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 05 18:02:54 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:03:27 2024
Response via : Initial Calibration

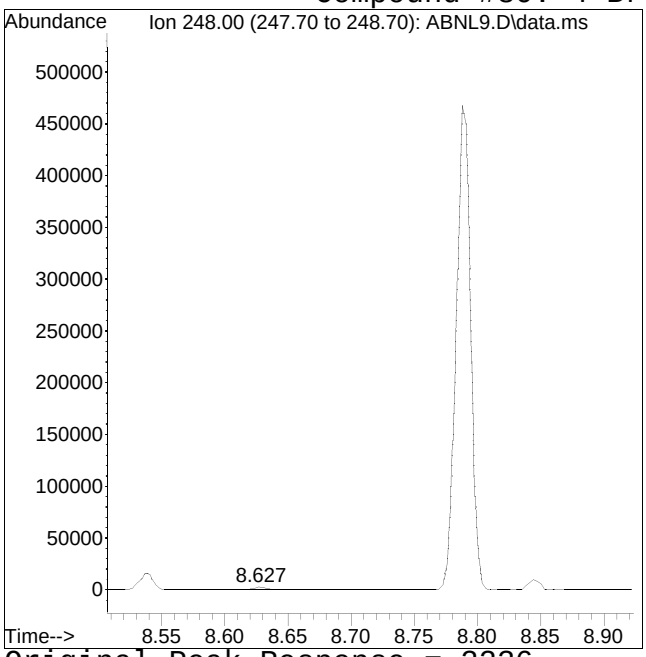
Sub List : ABNical - ABN ical sublistcal\AP9L6.D•

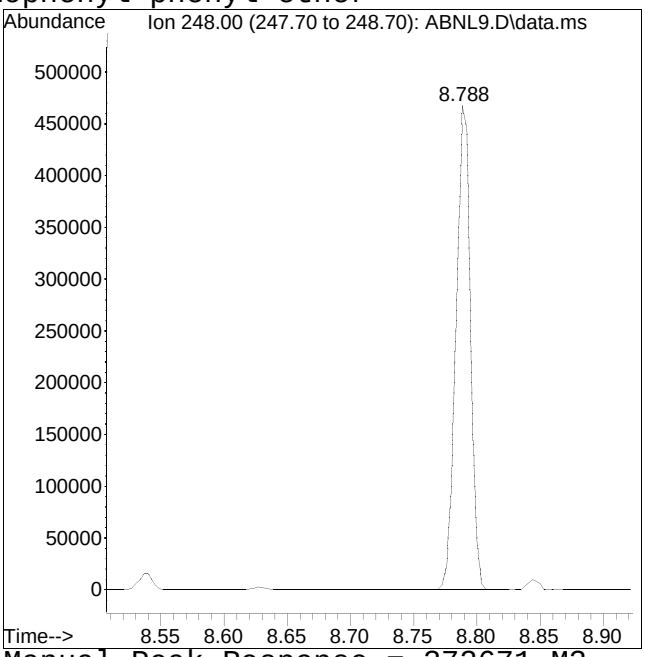


Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL9.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 6:03 pm Instrument : Dakota
Sample : IL2,32,,ABNL50 Lot# 10691 Quant Date : 6/5/2024 6:03 pm

Compound #80: 4-Bromophenyl phenyl ether



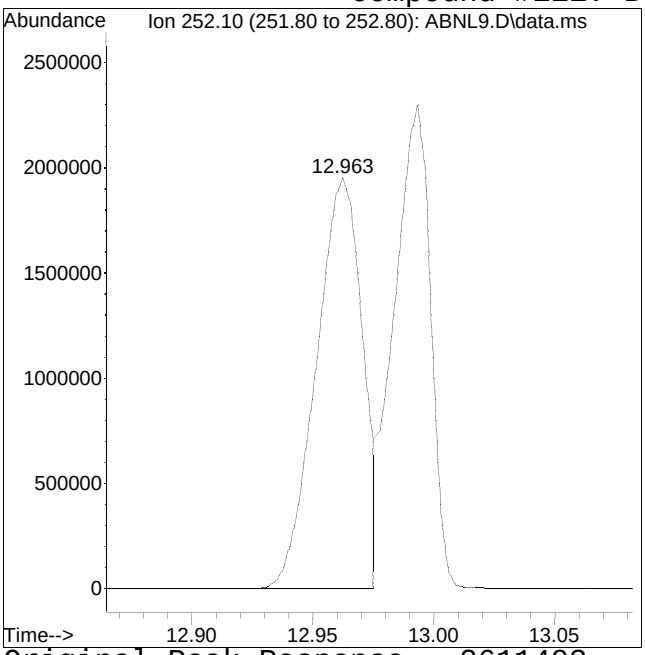


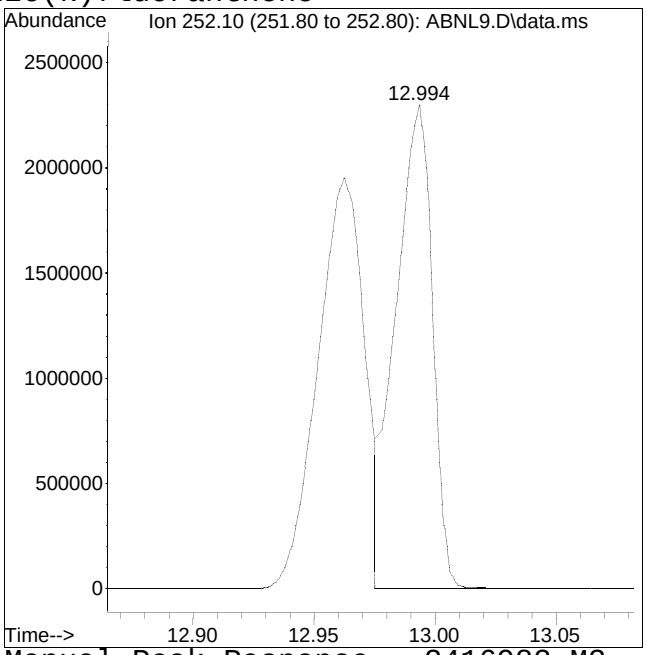
Original Peak Response = 2236 Manual Peak Response = 372671 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL9.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 6:03 pm Instrument : Dakota
Sample : IL2,32,,ABNL50 Lot# 10691 Quant Date : 6/5/2024 6:03 pm

Compound #111: Benzo(k)fluoranthene



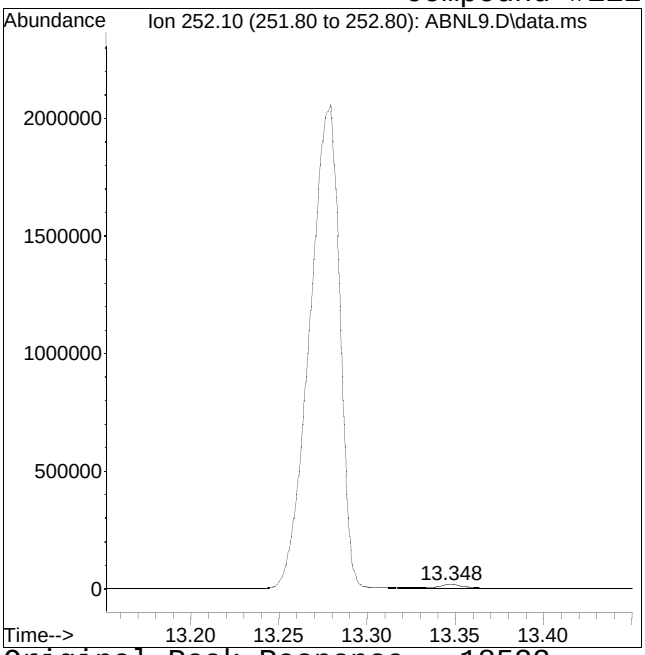


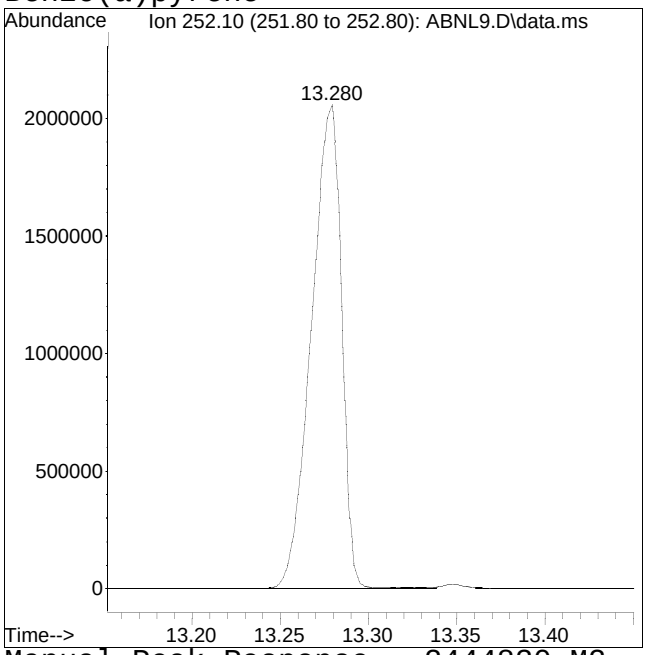
Original Peak Response = 2611403 Manual Peak Response = 2416982 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL9.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 6:03 pm Instrument : Dakota
Sample : IL2,32,,ABNL50 Lot# 10691 Quant Date : 6/5/2024 6:03 pm

Compound #112: Benzo(a)pyrene



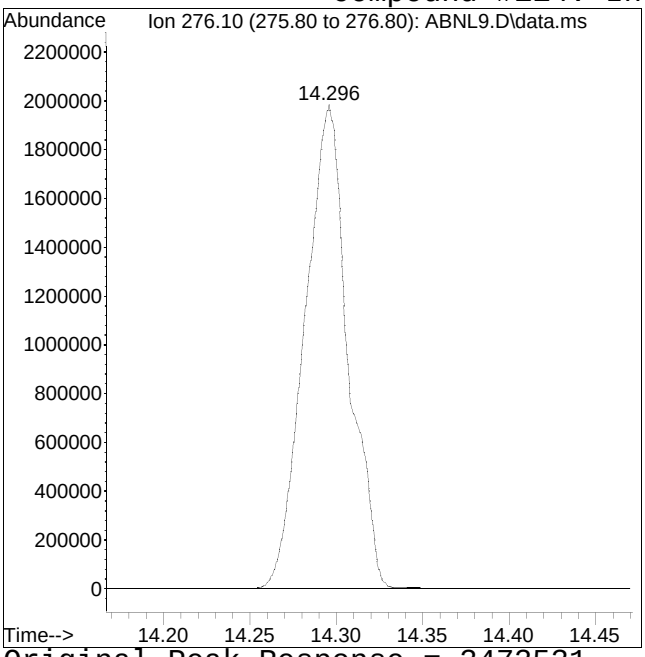


Original Peak Response = 18522 Manual Peak Response = 2444830 M2
M2 = Peak not found by automatic integration algorithm.

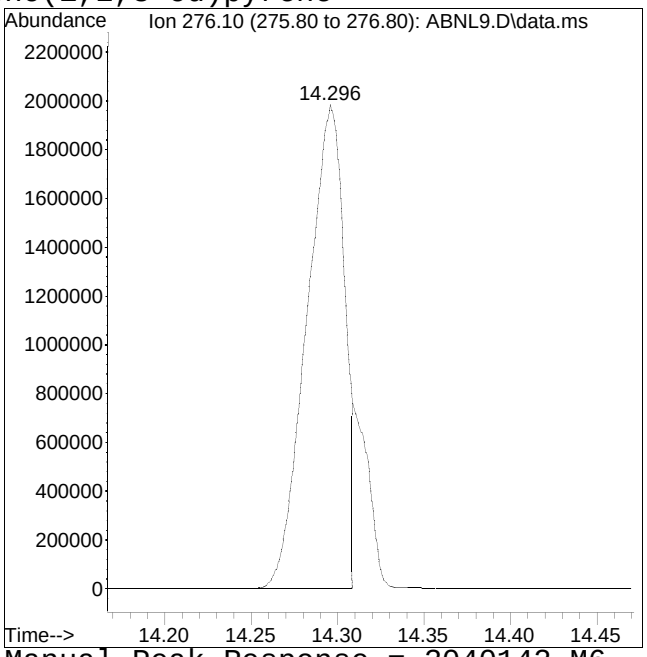
Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL9.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 6:03 pm Instrument : Dakota
Sample : IL2,32,,ABNL50 Lot# 10691 Quant Date : 6/5/2024 6:03 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 3473531



Manual Peak Response = 3040142 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL8.D
Acq On : 31 May 2024 6:26 pm
Operator : Dakota:mrg
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1930266
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 18:02:14 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:02:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.825	152	28793	4.000	ug/ml	0.00
Standard Area 1 = 30198			Recovery = 95.35%			
35) IS1_Naphthalene-d8	6.063	136	103116	4.000	ug/ml	0.00
Standard Area 1 = 112237			Recovery = 91.87%			
63) IS1_Acenaphthene-d10	7.769	164	68122	4.000	ug/ml	0.00
Standard Area 1 = 76464			Recovery = 89.09%			
88) IS1_Phenanthrene-d10	9.205	188	155719	4.000	ug/ml	0.00
Standard Area 1 = 170352			Recovery = 91.41%			
104) IS1_Chrysene-d12	11.853	240	164396	4.000	ug/ml	0.00
Standard Area 1 = 183196			Recovery = 89.74%			
113) IS1_Perylene-d12	13.320	264	196531	4.000	ug/ml	0.00
Standard Area 1 = 212317			Recovery = 92.56%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.557	112	187271	25.937	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1296.85%#			
7) Phenol-d6	4.499	99	237524	26.527	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1326.35%#			
19) Nitrobenzene-d5	5.366	82	198305	25.009	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2500.90%#			
46) 2-Fluorobiphenyl	7.132	172	541378	22.838	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2283.80%#			
79) 2,4,6-Tribromophenol	8.537	330	87514	27.531	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1376.55%#			
96) 4-Terphenyl-d14	10.784	244	892685	22.901	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2290.10%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.184	74	121184	26.171	ug/ml#	85
3) Pyridine	2.215	79	208453M1	27.541	ug/ml	
5) Aniline	4.505	93	297954	25.476	ug/ml#	45
6) 2-Chlorophenol	4.623	128	207063	25.657	ug/ml#	88
8) Phenol	4.512	94	263648	26.288	ug/ml#	46
9) Bis(2-chloroethyl)ether	4.586	93	168872	24.757	ug/ml	98
10) 1,3-Dichlorobenzene	4.770	146	249353	24.367	ug/ml	94
11) 1,4-Dichlorobenzene	4.841	146	248343	24.446	ug/ml	94
12) 1,2-Dichlorobenzene	4.990	146	239362	24.376	ug/ml	94

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL8.D
Acq On : 31 May 2024 6:26 pm
Operator : Dakota:mrg
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1930266
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 18:02:14 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:02:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	4.975	79	166925	25.356	ug/ml	97
14) Bis(2-chloroisopropyl)...	5.115	45	261822	23.053	ug/ml#	53
15) 2-Methylphenol	5.099	108	171276	25.380	ug/ml	99
16) Hexachloroethane	5.320	117	87786	24.169	ug/ml#	48
17) n-Nitrosodi-n-propylamine	5.242	70	145780	24.037	ug/ml#	88
18) 3-Methylphenol/4-Methy...	5.254	108	185900	25.270	ug/ml	99
20) Nitrobenzene	5.385	77	200911	25.739	ug/ml	95
21) Isophorone	5.624	82	379281	25.094	ug/ml	95
22) 2-Nitrophenol	5.699	139	98670	27.666	ug/ml	88
23) 2,4-Dimethylphenol	5.770	107	177669	25.388	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.857	93	222815	24.606	ug/ml#	98
25) 2,4-Dichlorophenol	5.935	162	204143	25.185	ug/ml#	91
26) 1,2,4-Trichlorobenzene	6.016	180	237573	24.419	ug/ml#	96
36) Naphthalene	6.081	128	581300	23.383	ug/ml	99
37) Benzoic Acid	5.879	105	138888	24.137	ug/ml	94
38) 4-Chloroaniline	6.150	65	75464	24.843	ug/ml	81
39) Hexachlorobutadiene	6.230	225	143458	24.452	ug/ml	99
40) p-Chloro-m-cresol	6.641	107	172218	25.608	ug/ml	87
41) 2-Methylnaphthalene	6.762	142	429940	24.171	ug/ml	97
42) 1-Methylnaphthalene	6.855	115	139144	23.447	ug/ml	99
43) Hexachlorocyclopentadiene	6.933	237	157459	25.325	ug/ml	99
44) 2,4,6-Trichlorophenol	7.045	196	173411	25.204	ug/ml	98
45) 2,4,5-Trichlorophenol	7.076	196	187872	25.106	ug/ml	100
47) 2-Chloronaphthalene	7.228	162	461599	23.592	ug/ml#	91
48) 2-Nitroaniline	7.337	138	126990	27.577	ug/ml	85
49) 1,4-Dinitrobenzene	7.467	168	57863	28.201	ug/ml	86
50) 1,3-Dinitrobenzene	7.545	168	67958	29.572	ug/ml#	1
51) Dimethyl phthalate	7.539	163	547842	23.726	ug/ml#	97
52) Acenaphthylene	7.629	152	675578	23.182	ug/ml	97
53) 2,6-Dinitrotoluene	7.582	165	111101	27.391	ug/ml#	78
54) 1,2-Dinitrobenzene	7.626	168	40876	28.697	ug/ml#	1
64) 3-Nitroaniline	7.738	138	116398	28.926	ug/ml	93
65) Acenaphthene	7.800	154	401044	23.722	ug/ml	89
66) 2,4-Dinitrophenol	7.837	184	64161	25.731	ug/ml#	78
67) Dibenzofuran	7.971	168	668597	23.578	ug/ml	92
68) 2,4-Dinitrotoluene	7.971	165	147995	29.069	ug/ml	93
69) 4-Nitrophenol	7.921	65	98214	28.184	ug/ml#	81
70) 2,3,5,6-Tetrachlorophenol	8.058	232	163822	26.055	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL8.D
Acq On : 31 May 2024 6:26 pm
Operator : Dakota:mrg
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1930266
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 18:02:14 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:02:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2,3,4,6-Tetrachlorophenol	8.098	232	158676	26.218	ug/ml	98
72) Diethyl phthalate	8.229	149	537201	23.164	ug/ml	99
73) Fluorene	8.300	166	535253	23.755	ug/ml	92
74) 4-Chlorophenyl phenyl ...	8.316	204	268786	22.471	ug/ml#	84
75) 4-Nitroaniline	8.328	138	116655	27.211	ug/ml#	83
76) 4,6-Dinitro-o-cresol	8.363	198	84855	25.687	ug/ml#	57
77) NDPA/DPA	8.434	169	463320	23.836	ug/ml	93
78) Azobenzene	8.468	77	446887	22.982	ug/ml	96
80) 4-Bromophenyl phenyl e...	8.788	248	179399M3	24.151	ug/ml	
81) Hexachlorobenzene	8.841	284	203196	23.752	ug/ml#	82
82) Pentachlorophenol	9.034	266	144016	25.197	ug/ml	98
89) Phenanthrene	9.227	178	899661	23.049	ug/ml	99
90) Anthracene	9.276	178	905746	23.735	ug/ml	98
91) Carbazole	9.441	167	868180	23.502	ug/ml	98
92) Di-n-butylphthalate	9.823	149	991730	24.696	ug/ml	98
93) Fluoranthene	10.380	202	1161970	23.323	ug/ml#	90
94) Benzidine	10.529	184	795932	27.884	ug/ml#	94
95) Pyrene	10.600	202	1189781	22.739	ug/ml	98
97) Butyl benzyl phthalate	11.309	149	495305	26.915	ug/ml	85
105) Benzo(a)anthracene	11.844	228	1303749	23.019	ug/ml	98
106) 3,3'-Dichlorobenzidine	11.837	252	535663	27.556	ug/ml#	95
107) Chrysene	11.881	228	1156861	22.288	ug/ml	97
108) Bis(2-ethylhexyl)phtha...	11.946	149	706967	25.821	ug/ml#	92
109) Di-n-octylphthalate	12.627	149	1330933	28.495	ug/ml#	74
110) Benzo(b)fluoranthene	12.956	252	1399119	24.007	ug/ml#	92
111) Benzo(k)fluoranthene	12.984	252	1288048	23.100	ug/ml#	91
112) Benzo(a)pyrene	13.270	252	1276741	24.612	ug/ml#	91
114) Indeno(1,2,3-cd)pyrene	14.287	276	1541453M6	26.449	ug/mL	
115) Dibenzo(a,h)anthracene	14.302	278	1327555	24.819	ug/ml#	88
116) Benzo(ghi)perylene	14.504	276	1302087	24.388	ug/ml#	84

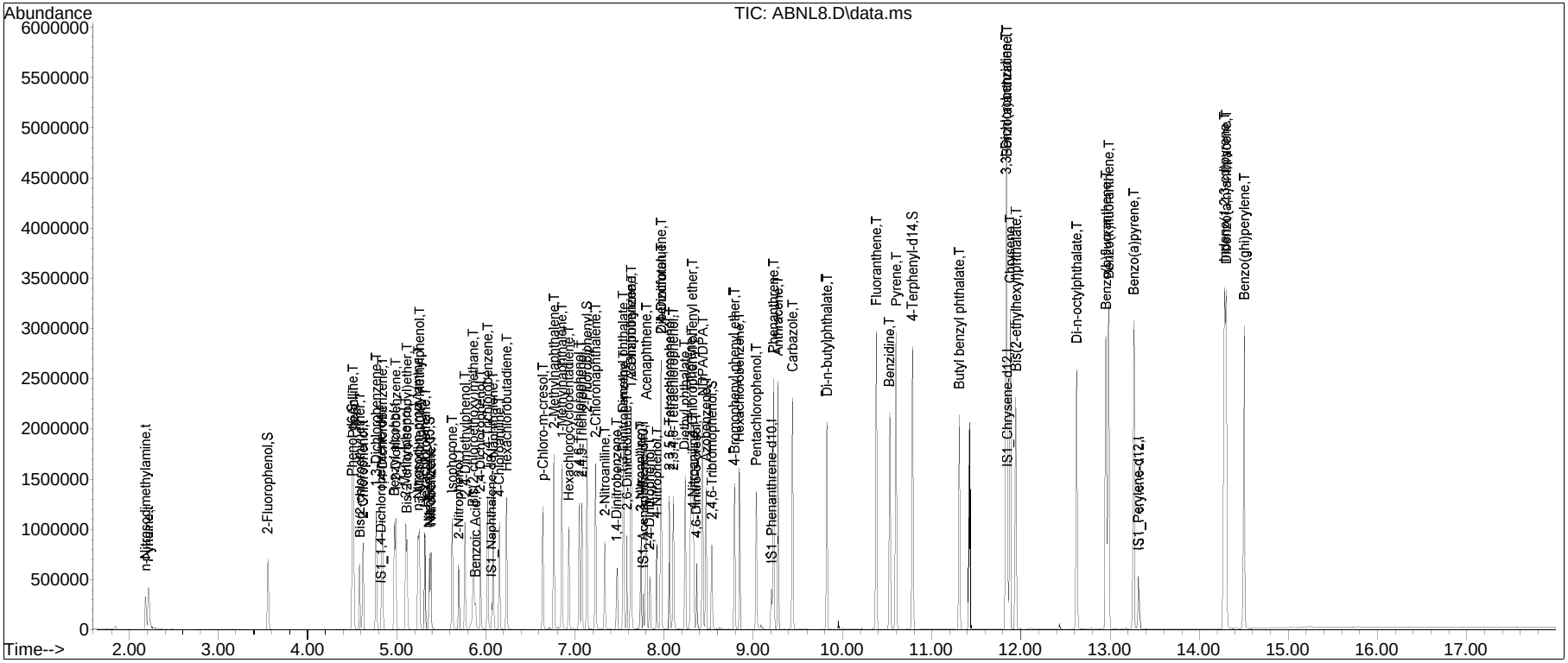
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL8.D
Acq On : 31 May 2024 6:26 pm
Operator : Dakota:mrg
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1930266
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 18:02:14 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:02:47 2024
Response via : Initial Calibration

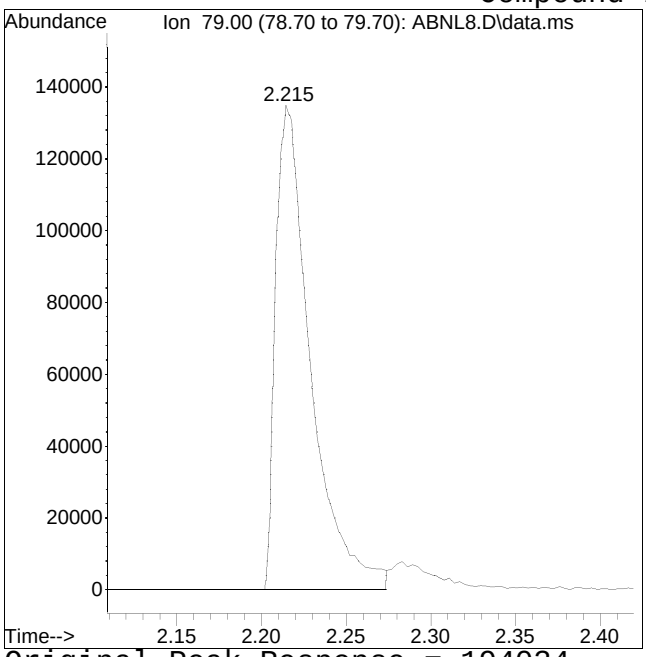
Sub List : ABNical - ABN ical sublistcal\AP9L6.D•

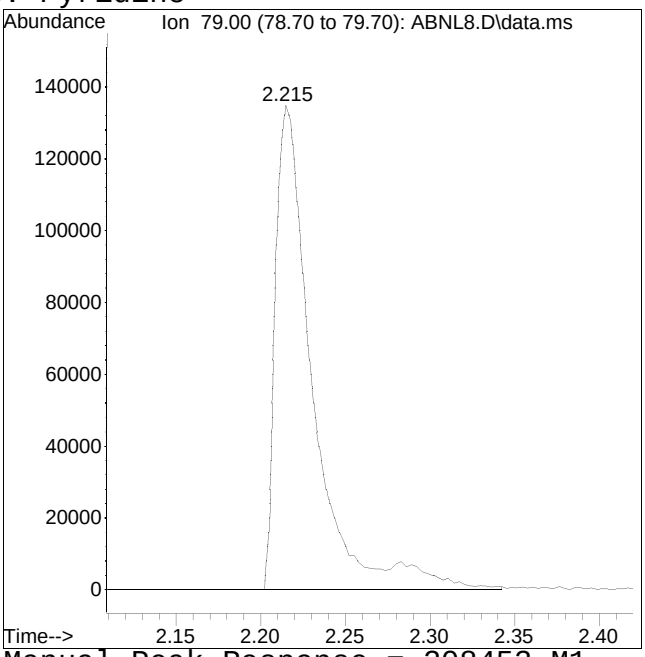


Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL8.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 6:26 pm Instrument : Dakota
Sample : IL3,32,,ABNL25 Lot# 10692 Quant Date : 6/5/2024 6:02 pm

Compound #3: Pyridine



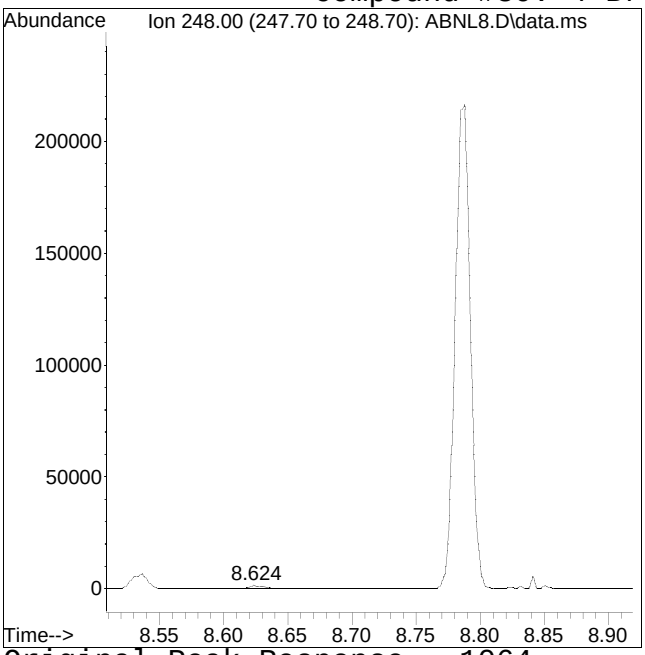


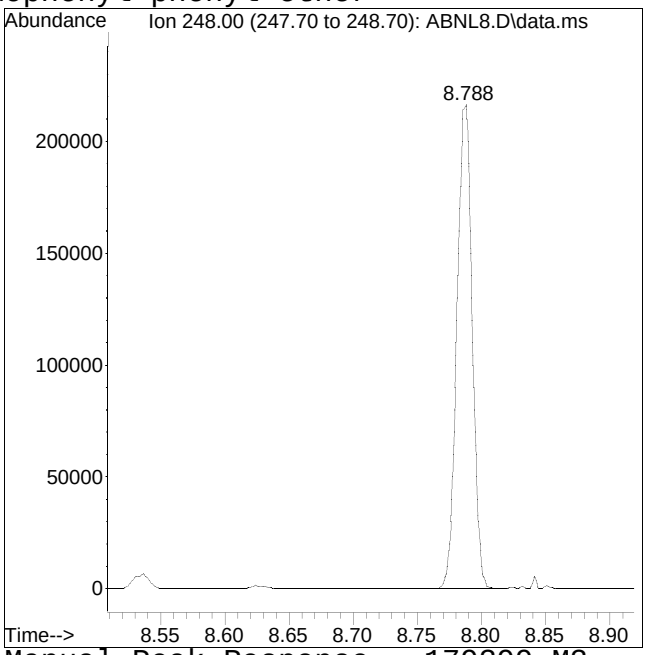
Original Peak Response = 194034 Manual Peak Response = 208453 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL8.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 6:26 pm Instrument : Dakota
Sample : IL3,32,,ABNL25 Lot# 10692 Quant Date : 6/5/2024 6:02 pm

Compound #80: 4-Bromophenyl phenyl ether





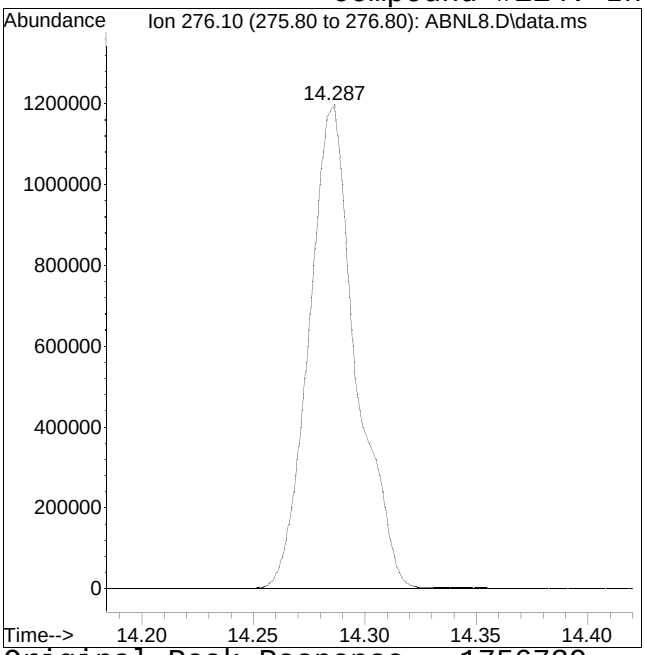
Original Peak Response = 1064 Manual Peak Response = 179399 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

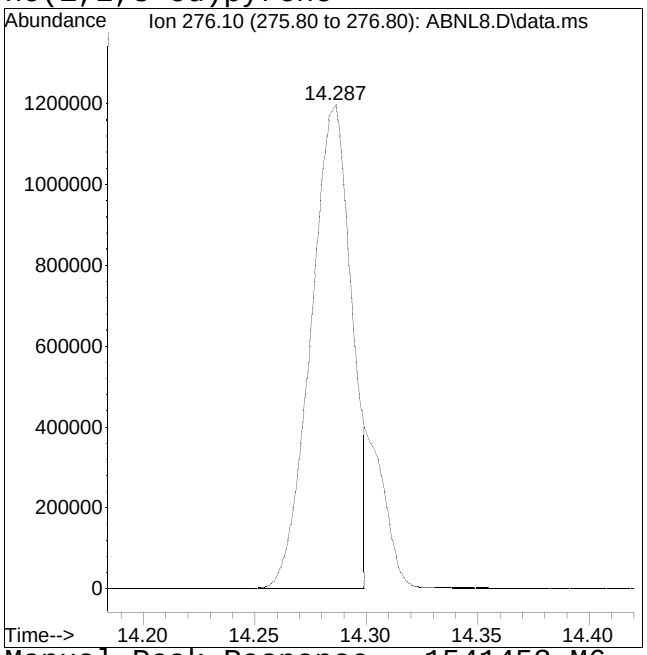
Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL8.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 6:26 pm Instrument : Dakota
Sample : IL3,32,,ABNL25 Lot# 10692 Quant Date : 6/5/2024 6:02 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 1756739



Manual Peak Response = 1541453 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL7.D
Acq On : 31 May 2024 6:50 pm
Operator : Dakota:mrg
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1930266
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 01 16:38:00 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 01 16:33:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.825	152	30276	4.000	ug/ml	# 0.00
Standard Area 1 = 30198			Recovery = 100.26%			
34) IS1_Naphthalene-d8	6.063	136	105590	4.000	ug/ml	0.00
Standard Area 1 = 112237			Recovery = 94.08%			
62) IS1_Acenaphthene-d10	7.769	164	71304	4.000	ug/ml	0.00
Standard Area 1 = 76464			Recovery = 93.25%			
87) IS1_Phenanthrene-d10	9.202	188	154659	4.000	ug/ml	0.00
Standard Area 1 = 170352			Recovery = 90.79%			
103) IS1_Chrysene-d12	11.850	240	163789	4.000	ug/ml	0.00
Standard Area 1 = 183196			Recovery = 89.41%			
112) IS1_Perylene-d12	13.317	264	193565	4.000	ug/ml	0.00
Standard Area 1 = 212317			Recovery = 91.17%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.561	112	77074	10.152	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 507.60%#			
7) Phenol-d6	4.499	99	96636	10.264	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 513.20%#			
19) Nitrobenzene-d5	5.366	82	87510	10.496	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 1049.60%#			
45) 2-Fluorobiphenyl	7.132	172	238975	9.845	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 984.50%#			
78) 2,4,6-Tribromophenol	8.533	330	36943	11.103	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 555.15%#			
95) 4-Terphenyl-d14	10.781	244	382254	9.874	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 987.40%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.190	74	49348	10.135	ug/ml	88
3) Pyridine	2.221	79	83400	10.479	ug/ml#	57
5) Aniline	4.505	93	125083	10.171	ug/ml#	48
6) 2-Chlorophenol	4.620	128	87109	10.265	ug/ml#	88
8) Phenol	4.512	94	109069	10.342	ug/ml#	47
9) Bis(2-chloroethyl)ether	4.586	93	72368	10.090	ug/ml	97
10) 1,3-Dichlorobenzene	4.773	146	107413	9.982	ug/ml	95
11) 1,4-Dichlorobenzene	4.844	146	106999	10.017	ug/ml	95
12) 1,2-Dichlorobenzene	4.990	146	104792	10.149	ug/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL7.D
Acq On : 31 May 2024 6:50 pm
Operator : Dakota:mrg
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1930266
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 01 16:38:00 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 01 16:33:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	4.975	79	71105	10.272	ug/ml	97
14) Bis(2-chloroisopropyl)...	5.115	45	115726	9.691	ug/ml#	54
15) 2-Methylphenol	5.099	108	73131	10.306	ug/ml	98
16) Hexachloroethane	5.320	117	37638	9.855	ug/ml#	46
17) n-Nitrosodi-n-propylamine	5.239	70	63420	9.945	ug/ml#	88
18) 3-Methylphenol/4-Methy...	5.254	108	78639	10.166	ug/ml	97
20) Nitrobenzene	5.385	77	85791	10.452	ug/ml	96
21) Isophorone	5.624	82	163125	10.264	ug/ml	94
22) 2-Nitrophenol	5.699	139	40089	10.690	ug/ml	88
23) 2,4-Dimethylphenol	5.767	107	77454	10.526	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.857	93	98784	10.375	ug/ml	97
25) 2,4-Dichlorophenol	5.935	162	87551	10.272	ug/ml#	92
26) 1,2,4-Trichlorobenzene	6.016	180	104568	10.222	ug/ml#	96
35) Naphthalene	6.081	128	256417	10.073	ug/ml	99
36) Benzoic Acid	5.851	105	53503	9.741	ug/ml	95
37) 4-Chloroaniline	6.146	65	31987	10.284	ug/ml	78
38) Hexachlorobutadiene	6.230	225	61949	10.311	ug/ml	99
39) p-Chloro-m-cresol	6.641	107	72904	10.587	ug/ml	88
40) 2-Methylnaphthalene	6.762	142	186331	10.230	ug/ml	98
41) 1-Methylnaphthalene	6.855	115	58538	9.633	ug/ml	95
42) Hexachlorocyclopentadiene	6.933	237	67255	10.563	ug/ml	100
43) 2,4,6-Trichlorophenol	7.045	196	75659	10.739	ug/ml	99
44) 2,4,5-Trichlorophenol	7.076	196	80553	10.512	ug/ml	100
46) 2-Chloronaphthalene	7.228	162	200953	10.030	ug/ml#	91
47) 2-Nitroaniline	7.337	138	50955	10.806	ug/ml	86
48) 1,4-Dinitrobenzene	7.464	168	21832	10.391	ug/ml	88
49) 1,3-Dinitrobenzene	7.542	168	27038	11.490	ug/ml#	1
50) Dimethyl phthalate	7.536	163	242414	10.253	ug/ml#	98
51) Acenaphthylene	7.626	152	295011	9.886	ug/ml	96
52) 2,6-Dinitrotoluene	7.579	165	44357	10.679	ug/ml#	80
53) 1,2-Dinitrobenzene	7.623	168	15581	10.682	ug/ml#	1
63) 3-Nitroaniline	7.735	138	48165	11.435	ug/ml	91
64) Acenaphthene	7.800	154	176172	9.956	ug/ml	89
65) 2,4-Dinitrophenol	7.834	184	24802	9.889	ug/ml#	81
66) Dibenzofuran	7.968	168	297932	10.038	ug/ml	89
67) 2,4-Dinitrotoluene	7.965	165	60904	11.429	ug/ml	93
68) 4-Nitrophenol	7.918	65	41275	11.316	ug/ml#	87
69) 2,3,5,6-Tetrachlorophenol	8.055	232	71002	10.789	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL7.D
Acq On : 31 May 2024 6:50 pm
Operator : Dakota:mrg
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1930266
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 01 16:38:00 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 01 16:33:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	8.098	232	65697	10.371	ug/ml	98
71)	Diethyl phthalate	8.226	149	238121	9.809	ug/ml	99
72)	Fluorene	8.300	166	236308	10.019	ug/ml	93
73)	4-Chlorophenyl phenyl ...	8.316	204	122388	9.775	ug/ml#	82
74)	4-Nitroaniline	8.322	138	50819	11.325	ug/ml#	82
75)	4,6-Dinitro-o-cresol	8.359	198	32881	9.817	ug/ml#	57
76)	NDPA/DPA	8.431	169	204904	10.071	ug/ml	93
77)	Azobenzene	8.465	77	201743	9.912	ug/ml	97
79)	4-Bromophenyl phenyl e...	8.785	248	77176	9.926	ug/ml#	79
80)	Hexachlorobenzene	8.841	284	87962	9.823	ug/ml#	81
81)	Pentachlorophenol	9.031	266	58105	9.921	ug/ml	98
88)	Phenanthrene	9.223	178	390436	10.072	ug/ml	100
89)	Anthracene	9.273	178	394203	10.401	ug/ml	99
90)	Carbazole	9.438	167	372222	10.145	ug/ml	98
91)	Di-n-butylphthalate	9.820	149	427585	10.721	ug/ml	98
92)	Fluoranthene	10.380	202	500108	10.107	ug/ml#	90
93)	Benzidine	10.526	184	330205	11.647	ug/ml#	94
94)	Pyrene	10.597	202	519425	9.995	ug/ml	99
96)	Butyl benzyl phthalate	11.306	149	199712	10.927	ug/ml#	84
104)	Benzo(a)anthracene	11.837	228	542648	9.616	ug/ml	98
105)	3,3'-Dichlorobenzidine	11.834	252	213261	11.011	ug/ml#	95
106)	Chrysene	11.875	228	512229	9.905	ug/ml	99
107)	Bis(2-ethylhexyl)phtha...	11.943	149	299828	10.991	ug/ml#	91
108)	Di-n-octylphthalate	12.624	149	532101	11.434	ug/ml#	73
109)	Benzo(b)fluoranthene	12.950	252	569177	9.803	ug/ml#	92
110)	Benzo(k)fluoranthene	12.978	252	543849	9.790	ug/ml#	92
111)	Benzo(a)pyrene	13.264	252	520485	10.071	ug/ml#	91
113)	Indeno(1,2,3-cd)pyrene	14.277	276	590551M6	10.288	ug/mL	
114)	Dibenzo(a,h)anthracene	14.296	278	550045	10.441	ug/ml#	88
115)	Benzo(ghi)perylene	14.495	276	531935	10.116	ug/ml#	84

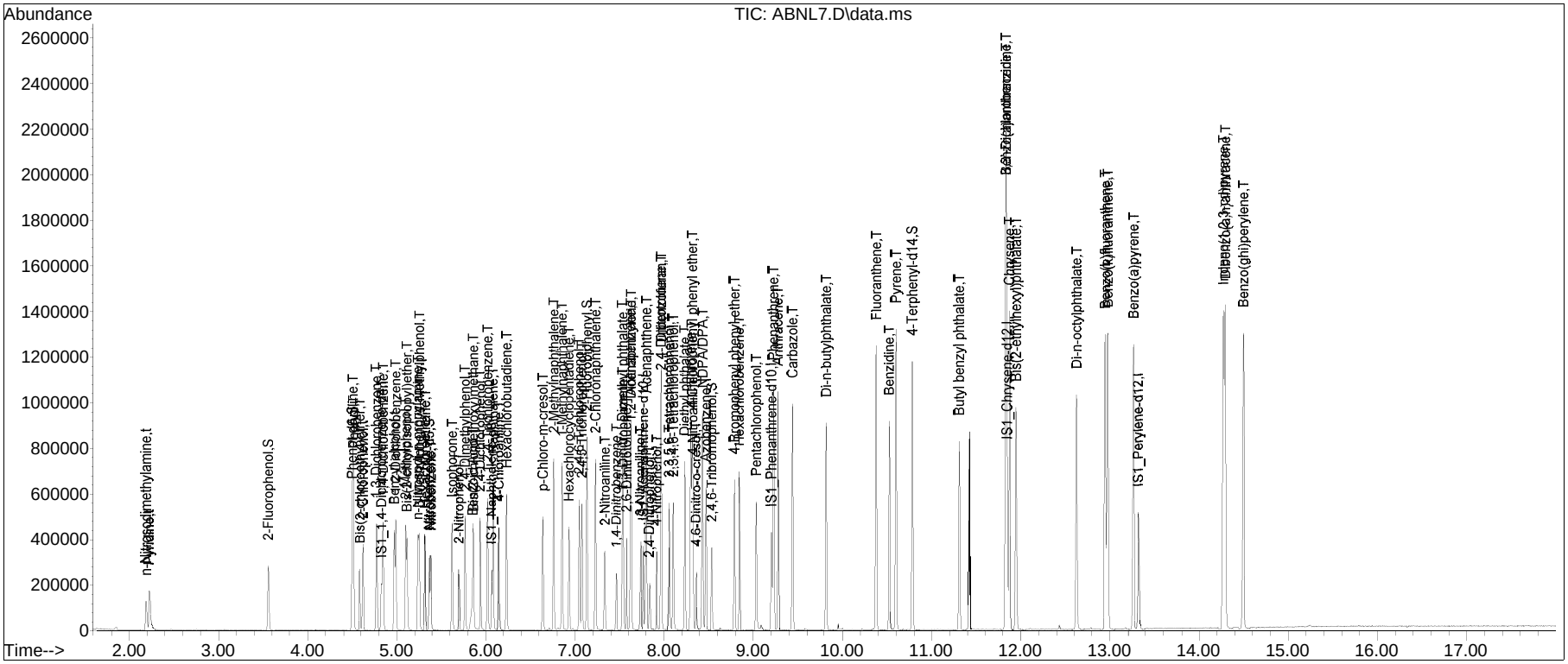
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL7.D
Acq On : 31 May 2024 6:50 pm
Operator : Dakota:mrg
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1930266
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 01 16:38:00 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 01 16:33:04 2024
Response via : Initial Calibration

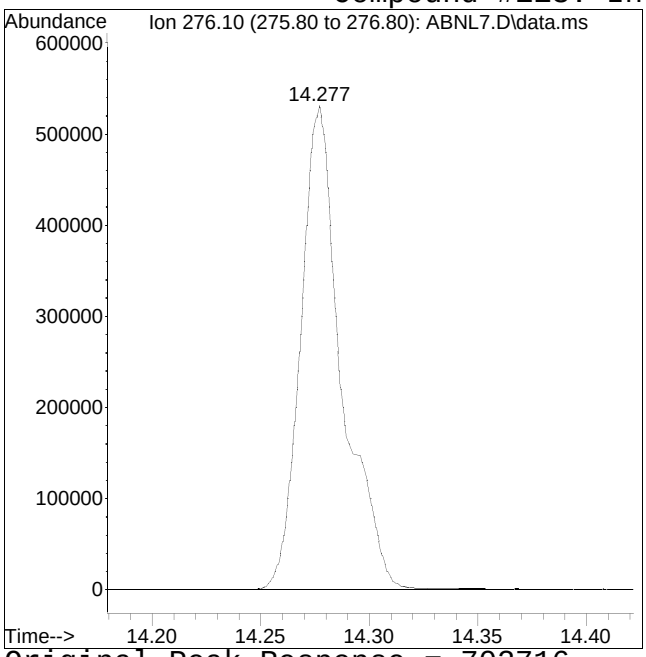
Sub List : ABNical - ABN ical sublistcal\AP9L6.D•



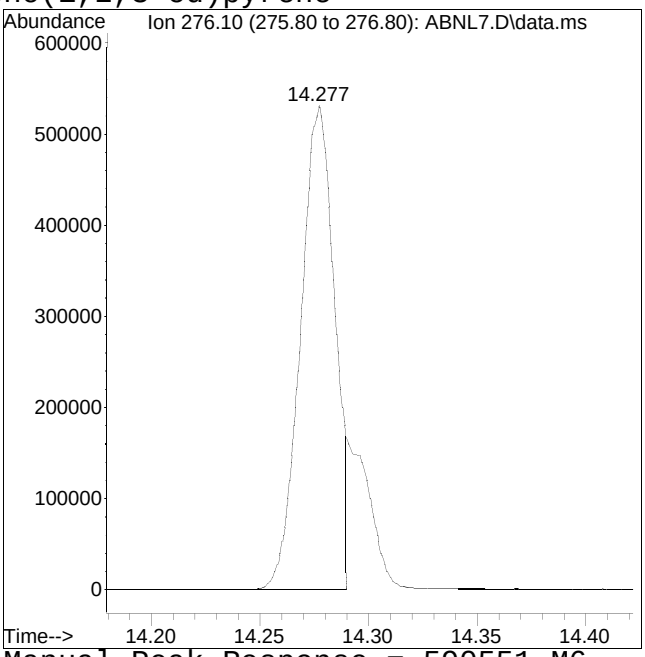
Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531RVTDakota.m
Data File : ABNL7.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 6:50 pm Instrument : Dakota
Sample : IL4,32,,ABNL10 Lot# 10693 Quant Date : 6/1/2024 4:38 pm

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 702716



Manual Peak Response = 590551 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL6.D
Acq On : 31 May 2024 7:16 pm
Operator : Dakota:mrg
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1930266
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 05 17:56:05 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:56:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.825	152	30198	4.000	ug/ml	0.00
Standard Area 1 = 30198			Recovery = 100.00%			
35) IS1_Naphthalene-d8	6.063	136	112237	4.000	ug/ml	0.00
Standard Area 1 = 112237			Recovery = 100.00%			
63) IS1_Acenaphthene-d10	7.769	164	76464	4.000	ug/ml	0.00
Standard Area 1 = 76464			Recovery = 100.00%			
88) IS1_Phenanthrene-d10	9.202	188	170352	4.000	ug/ml	0.00
Standard Area 1 = 170352			Recovery = 100.00%			
104) IS1_Chrysene-d12	11.847	240	183196	4.000	ug/ml	0.00
Standard Area 1 = 183196			Recovery = 100.00%			
113) IS1_Perylene-d12	13.320	264	212317	4.000	ug/ml	0.00
Standard Area 1 = 212317			Recovery = 100.00%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.560	112	35940	4.746	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 237.30%#			
7) Phenol-d6	4.499	99	46530	4.955	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 247.75%#			
19) Nitrobenzene-d5	5.366	82	40959	4.925	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 492.50%#			
46) 2-Fluorobiphenyl	7.129	172	117840	4.567	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 456.70%#			
79) 2,4,6-Tribromophenol	8.530	330	17858	5.005	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 250.25%#			
96) 4-Terphenyl-d14	10.781	244	196906	4.618	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 461.80%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.190	74	23404	4.819	ug/ml#	86
3) Pyridine	2.227	79	39315	4.953	ug/ml#	60
5) Aniline	4.505	93	60261	4.913	ug/ml#	45
6) 2-Chlorophenol	4.620	128	42708	5.046	ug/ml#	90
8) Phenol	4.512	94	52699	5.010	ug/ml#	44
9) Bis(2-chloroethyl)ether	4.586	93	36257	5.068	ug/ml	98
10) 1,3-Dichlorobenzene	4.770	146	51906	4.836	ug/ml	93
11) 1,4-Dichlorobenzene	4.844	146	51905	4.872	ug/ml	92
12) 1,2-Dichlorobenzene	4.990	146	51765	5.026	ug/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL6.D
Acq On : 31 May 2024 7:16 pm
Operator : Dakota:mrg
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1930266
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 05 17:56:05 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:56:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	4.975	79	34843	5.046	ug/ml	96
14) Bis(2-chloroisopropyl)...	5.115	45	57601	4.836	ug/ml#	55
15) 2-Methylphenol	5.099	108	35819	5.061	ug/ml	99
16) Hexachloroethane	5.320	117	18690	4.906	ug/ml#	49
17) n-Nitrosodi-n-propylamine	5.242	70	31228	4.909	ug/ml#	86
18) 3-Methylphenol/4-Methy...	5.251	108	39112	5.069	ug/ml	100
20) Nitrobenzene	5.385	77	40687	4.970	ug/ml	95
21) Isophorone	5.624	82	79271	5.001	ug/ml#	94
22) 2-Nitrophenol	5.699	139	18522	4.952	ug/ml	88
23) 2,4-Dimethylphenol	5.767	107	37932	5.168	ug/ml	97
24) Bis(2-chloroethoxy)met...	5.854	93	48823	5.141	ug/ml#	96
25) 2,4-Dichlorophenol	5.935	162	43333	5.097	ug/ml#	92
26) 1,2,4-Trichlorobenzene	6.016	180	51789	5.076	ug/ml#	97
36) Naphthalene	6.081	128	127316	4.705	ug/ml	99
37) Benzoic Acid	5.836	105	20989	4.263	ug/ml	92
38) 4-Chloroaniline	6.146	65	14891	4.504	ug/ml#	69
39) Hexachlorobutadiene	6.230	225	30683	4.805	ug/ml	99
40) p-Chloro-m-cresol	6.641	107	34894	4.767	ug/ml#	86
41) 2-Methylnaphthalene	6.762	142	91193	4.710	ug/ml	97
42) 1-Methylnaphthalene	6.855	115	30480	4.719	ug/ml	99
43) Hexachlorocyclopentadiene	6.933	237	31753	4.692	ug/ml	98
44) 2,4,6-Trichlorophenol	7.045	196	36123	4.824	ug/ml	99
45) 2,4,5-Trichlorophenol	7.076	196	39459	4.845	ug/ml	97
47) 2-Chloronaphthalene	7.228	162	100961	4.741	ug/ml#	91
48) 2-Nitroaniline	7.334	138	23719	4.732	ug/ml	88
49) 1,4-Dinitrobenzene	7.464	168	10513	4.707	ug/ml	85
50) 1,3-Dinitrobenzene	7.542	168	12354	4.939	ug/ml#	1
51) Dimethyl phthalate	7.533	163	119124	4.740	ug/ml#	98
52) Acenaphthylene	7.626	152	147151	4.639	ug/ml	98
53) 2,6-Dinitrotoluene	7.576	165	20485	4.640	ug/ml#	84
54) 1,2-Dinitrobenzene	7.620	168	7391	4.767	ug/ml#	1
64) 3-Nitroaniline	7.735	138	22689	5.023	ug/ml	96
65) Acenaphthene	7.800	154	87199	4.595	ug/ml	88
66) 2,4-Dinitrophenol	7.834	184	10929	4.425	ug/ml#	82
67) Dibenzofuran	7.968	168	148856	4.677	ug/ml	90
68) 2,4-Dinitrotoluene	7.965	165	28851	5.049	ug/ml	93
69) 4-Nitrophenol	7.915	65	20108	5.141	ug/ml#	91
70) 2,3,5,6-Tetrachlorophenol	8.055	232	33965	4.813	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL6.D
Acq On : 31 May 2024 7:16 pm
Operator : Dakota:mrg
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1930266
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 05 17:56:05 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:56:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	8.098	232	32642	4.805	ug/ml	97
72)	Diethyl phthalate	8.223	149	120344	4.623	ug/ml	99
73)	Fluorene	8.300	166	117246	4.636	ug/ml	92
74)	4-Chlorophenyl phenyl ...	8.316	204	61049	4.547	ug/ml#	81
75)	4-Nitroaniline	8.322	138	24923	5.179	ug/ml	83
76)	4,6-Dinitro-o-cresol	8.356	198	15150	4.496	ug/ml#	59
77)	NDPA/DPA	8.431	169	103429	4.741	ug/ml	94
78)	Azobenzene	8.465	77	100519	4.605	ug/ml	98
80)	4-Bromophenyl phenyl e...	8.785	248	38868	4.662	ug/ml#	80
81)	Hexachlorobenzene	8.841	284	42966	4.474	ug/ml#	82
82)	Pentachlorophenol	9.031	266	27726	4.603	ug/ml	99
89)	Phenanthrene	9.223	178	196510	4.602	ug/ml	100
90)	Anthracene	9.273	178	197472	4.730	ug/ml	98
91)	Carbazole	9.438	167	188095	4.654	ug/ml	99
92)	Di-n-butylphthalate	9.820	149	208920	4.756	ug/ml	98
93)	Fluoranthene	10.377	202	247407	4.539	ug/ml#	90
94)	Benzidine	10.526	184	161417	5.169	ug/ml#	94
95)	Pyrene	10.597	202	260727	4.555	ug/ml	100
97)	Butyl benzyl phthalate	11.306	149	94311	4.685	ug/ml#	84
105)	Benzo(a)anthracene	11.837	228	271129	4.296	ug/ml	99
106)	3,3'-Dichlorobenzidine	11.834	252	103335	4.770	ug/ml#	95
107)	Chrysene	11.875	228	258788	4.474	ug/ml	99
108)	Bis(2-ethylhexyl)phtha...	11.946	149	144165	4.725	ug/ml#	92
109)	Di-n-octylphthalate	12.624	149	245157	4.710	ug/ml#	73
110)	Benzo(b)fluoranthene	12.947	252	287111	4.421	ug/ml#	92
111)	Benzo(k)fluoranthene	12.975	252	264572	4.258	ug/ml#	92
112)	Benzo(a)pyrene	13.264	252	260356	4.504	ug/ml#	91
114)	Indeno(1,2,3-cd)pyrene	14.274	276	304234M6	4.832	ug/mL	
115)	Dibenzo(a,h)anthracene	14.296	278	267674	4.632	ug/ml#	88
116)	Benzo(ghi)perylene	14.492	276	264760	4.590	ug/ml#	83

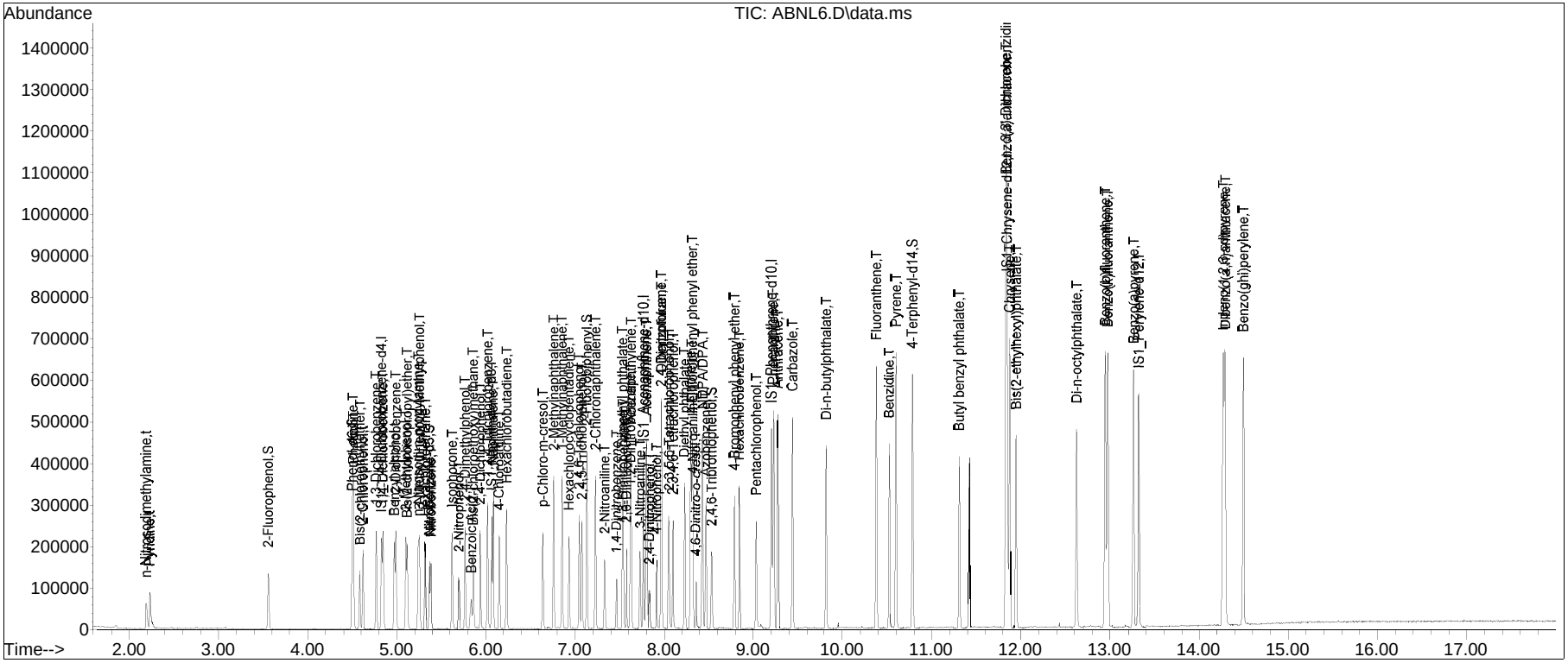
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL6.D
Acq On : 31 May 2024 7:16 pm
Operator : Dakota:mrg
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1930266
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 05 17:56:05 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:56:39 2024
Response via : Initial Calibration

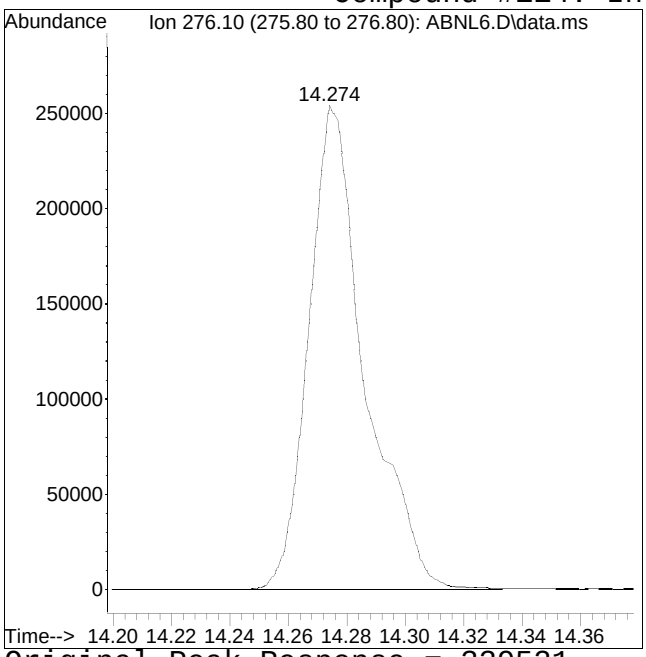
Sub List : ABNical - ABN ical sublistcal\AP9L6.D•



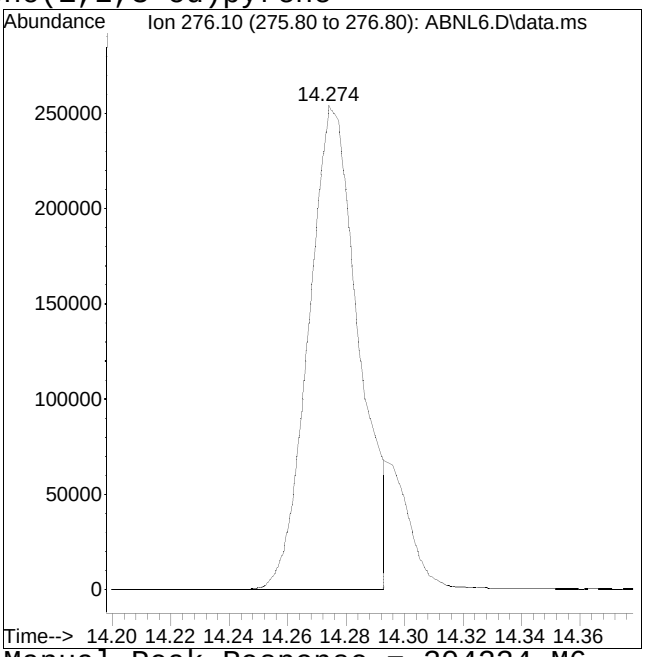
Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL6.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 7:16 pm Instrument : Dakota
Sample : IL5,32,,ABNL5 Lot# 10694 Quant Date : 6/5/2024 5:56 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 339521



Manual Peak Response = 304234 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL5.D
Acq On : 31 May 2024 7:41 pm
Operator : Dakota:mrg
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1930266
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 17:53:22 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:53:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.828	152	31178	4.000	ug/ml	0.00
Standard Area 1 = 30198			Recovery = 103.25%			
35) IS1_Naphthalene-d8	6.062	136	107080	4.000	ug/ml	# 0.00
Standard Area 1 = 112237			Recovery = 95.41%			
63) IS1_Acenaphthene-d10	7.769	164	72967	4.000	ug/ml	0.00
Standard Area 1 = 76464			Recovery = 95.43%			
88) IS1_Phenanthrene-d10	9.202	188	166258	4.000	ug/ml	0.00
Standard Area 1 = 170352			Recovery = 97.60%			
104) IS1_Chrysene-d12	11.847	240	177077	4.000	ug/ml	0.00
Standard Area 1 = 183196			Recovery = 96.66%			
113) IS1_Perylene-d12	13.320	264	206728	4.000	ug/ml	0.00
Standard Area 1 = 212317			Recovery = 97.37%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.560	112	18163	2.323	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 116.15%#			
7) Phenol-d6	4.496	99	22740	2.345	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 117.25%#			
19) Nitrobenzene-d5	5.366	82	20379	2.373	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 237.30%#			
46) 2-Fluorobiphenyl	7.128	172	58595	2.380	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 238.00%#			
79) 2,4,6-Tribromophenol	8.533	330	8611	2.529	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 126.45%#			
96) 4-Terphenyl-d14	10.781	244	98921	2.377	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 237.70%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.196	74	12329	2.459	ug/ml	82
3) Pyridine	2.233	79	19708	2.405	ug/ml#	60
5) Aniline	4.505	93	28995	2.289	ug/ml#	46
6) 2-Chlorophenol	4.620	128	20833	2.384	ug/ml#	88
8) Phenol	4.508	94	25917	2.386	ug/ml#	47
9) Bis(2-chloroethyl)ether	4.586	93	17394	2.355	ug/ml	96
10) 1,3-Dichlorobenzene	4.769	146	26411	2.383	ug/ml	96
11) 1,4-Dichlorobenzene	4.844	146	25350	2.304	ug/ml	95
12) 1,2-Dichlorobenzene	4.990	146	25197	2.370	ug/ml	92

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL5.D
Acq On : 31 May 2024 7:41 pm
Operator : Dakota:mrg
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1930266
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 17:53:22 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:53:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	4.975	79	17084	2.397	ug/ml	97
14) Bis(2-chloroisopropyl)...	5.114	45	28568	2.323	ug/ml#	56
15) 2-Methylphenol	5.099	108	17017	2.329	ug/ml	97
16) Hexachloroethane	5.320	117	9409	2.392	ug/ml#	43
17) n-Nitrosodi-n-propylamine	5.242	70	15420	2.348	ug/ml#	88
18) 3-Methylphenol/4-Methy...	5.251	108	19134	2.402	ug/ml	100
20) Nitrobenzene	5.385	77	19617	2.321	ug/ml	95
21) Isophorone	5.624	82	39057	2.386	ug/ml	94
22) 2-Nitrophenol	5.699	139	8599	2.227	ug/ml	90
23) 2,4-Dimethylphenol	5.767	107	18128	2.392	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.854	93	23053	2.351	ug/ml#	96
25) 2,4-Dichlorophenol	5.935	162	20481	2.333	ug/ml#	92
26) 1,2,4-Trichlorobenzene	6.016	180	24945	2.368	ug/ml#	95
36) Naphthalene	6.081	128	61784	2.393	ug/ml	99
37) Benzoic Acid	5.823	105	7468	2.253	ug/ml	89
38) 4-Chloroaniline	6.149	65	7618	2.415	ug/ml	77
39) Hexachlorobutadiene	6.230	225	14726	2.417	ug/ml	97
40) p-Chloro-m-cresol	6.641	107	16820	2.408	ug/ml#	83
41) 2-Methylnaphthalene	6.762	142	44653	2.417	ug/ml	95
42) 1-Methylnaphthalene	6.855	115	15075	2.446	ug/ml	98
43) Hexachlorocyclopentadiene	6.933	237	15424	2.389	ug/ml	99
44) 2,4,6-Trichlorophenol	7.045	196	17329	2.425	ug/ml	98
45) 2,4,5-Trichlorophenol	7.076	196	18416	2.370	ug/ml	98
47) 2-Chloronaphthalene	7.228	162	49545	2.438	ug/ml#	91
48) 2-Nitroaniline	7.334	138	11318	2.367	ug/ml	87
49) 1,4-Dinitrobenzene	7.464	168	5319	2.496	ug/ml	83
50) 1,3-Dinitrobenzene	7.539	168	5938	2.488	ug/ml#	1
51) Dimethyl phthalate	7.533	163	59760	2.492	ug/ml#	96
52) Acenaphthylene	7.626	152	74109	2.449	ug/ml	97
53) 2,6-Dinitrotoluene	7.579	165	9999	2.374	ug/ml#	79
54) 1,2-Dinitrobenzene	7.620	168	3641	2.462	ug/ml#	1
64) 3-Nitroaniline	7.731	138	10788	2.503	ug/ml#	93
65) Acenaphthene	7.800	154	43481	2.401	ug/ml	90
66) 2,4-Dinitrophenol	7.834	184	4649	2.312	ug/ml#	82
67) Dibenzofuran	7.968	168	75182	2.475	ug/ml	91
68) 2,4-Dinitrotoluene	7.965	165	13641	2.501	ug/ml	93
69) 4-Nitrophenol	7.915	65	9446	2.531	ug/ml#	87
70) 2,3,5,6-Tetrachlorophenol	8.058	232	16275	2.417	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL5.D
Acq On : 31 May 2024 7:41 pm
Operator : Dakota:mrg
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1930266
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 17:53:22 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:53:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	8.098	232	16520	2.548	ug/ml	99
72)	Diethyl phthalate	8.223	149	59582	2.399	ug/ml	99
73)	Fluorene	8.300	166	58701	2.432	ug/ml	92
74)	4-Chlorophenyl phenyl ...	8.316	204	31022	2.421	ug/ml#	83
75)	4-Nitroaniline	8.319	138	11508	2.506	ug/ml#	82
76)	4,6-Dinitro-o-cresol	8.359	198	6756	2.361	ug/ml#	61
77)	NDPA/DPA	8.428	169	49933	2.398	ug/ml	89
78)	Azobenzene	8.465	77	50479	2.424	ug/ml	95
80)	4-Bromophenyl phenyl e...	8.785	248	18735	2.355	ug/ml#	78
81)	Hexachlorobenzene	8.841	284	22437	2.449	ug/ml#	80
82)	Pentachlorophenol	9.031	266	13029	2.439	ug/ml	97
89)	Phenanthrene	9.223	178	101199	2.428	ug/ml	99
90)	Anthracene	9.273	178	100081	2.456	ug/ml	99
91)	Carbazole	9.438	167	94281	2.390	ug/ml	99
92)	Di-n-butylphthalate	9.820	149	104433	2.436	ug/ml	98
93)	Fluoranthene	10.376	202	125374	2.357	ug/ml#	91
94)	Benzidine	10.526	184	77980	2.559	ug/ml#	94
95)	Pyrene	10.597	202	134176	2.402	ug/ml	98
97)	Butyl benzyl phthalate	11.306	149	44823	2.281	ug/ml#	84
105)	Benzo(a)anthracene	11.837	228	140577	2.304	ug/ml	99
106)	3,3'-Dichlorobenzidine	11.834	252	50043	2.390	ug/ml#	97
107)	Chrysene	11.875	228	134652	2.408	ug/ml	99
108)	Bis(2-ethylhexyl)phtha...	11.946	149	68750	2.331	ug/ml#	92
109)	Di-n-octylphthalate	12.624	149	115108	2.288	ug/ml#	74
110)	Benzo(b)fluoranthene	12.947	252	140349	2.236	ug/ml#	93
111)	Benzo(k)fluoranthene	12.975	252	145715	2.426	ug/ml#	92
112)	Benzo(a)pyrene	13.264	252	128890	2.307	ug/ml#	92
114)	Indeno(1,2,3-cd)pyrene	14.274	276	141370M6	2.306	ug/mL	
115)	Dibenzo(a,h)anthracene	14.293	278	135372	2.406	ug/ml#	88
116)	Benzo(ghi)perylene	14.492	276	133591	2.379	ug/ml#	84

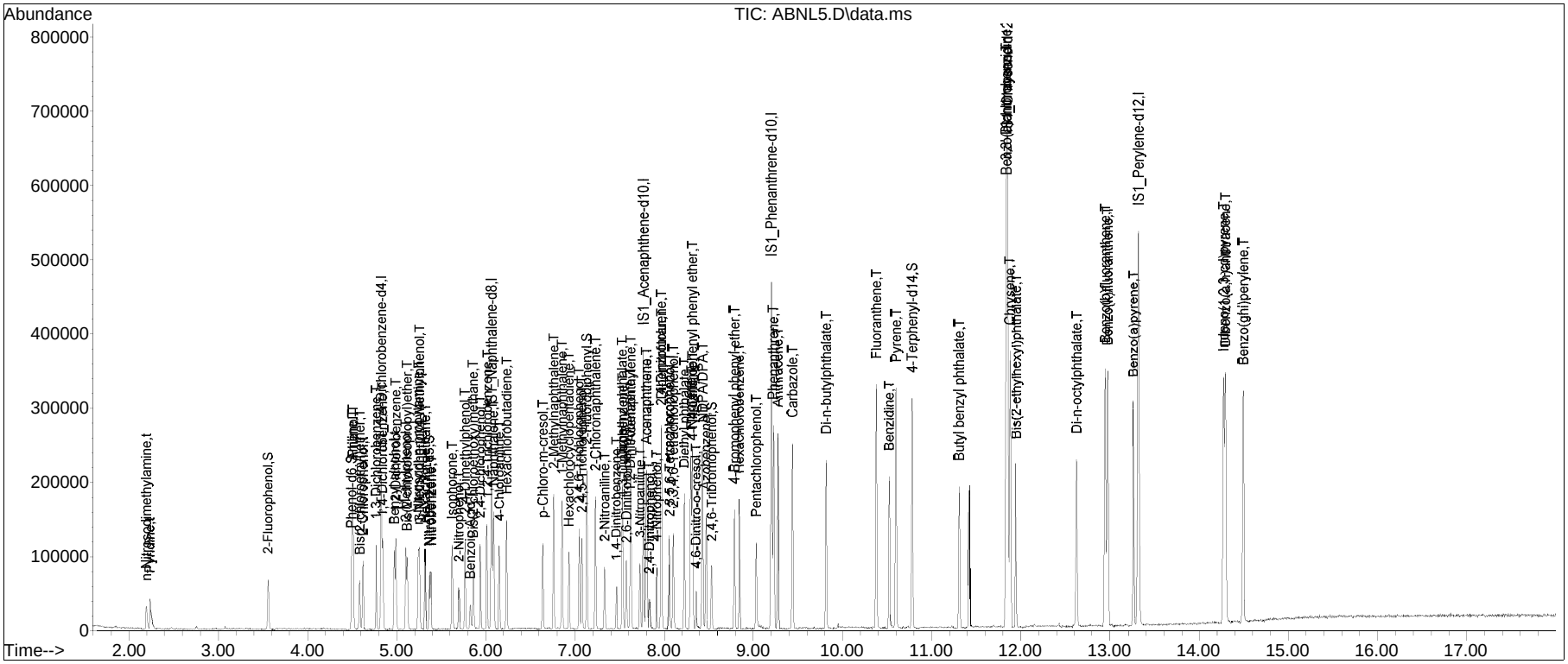
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL5.D
Acq On : 31 May 2024 7:41 pm
Operator : Dakota:mrg
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1930266
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 17:53:22 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:53:56 2024
Response via : Initial Calibration

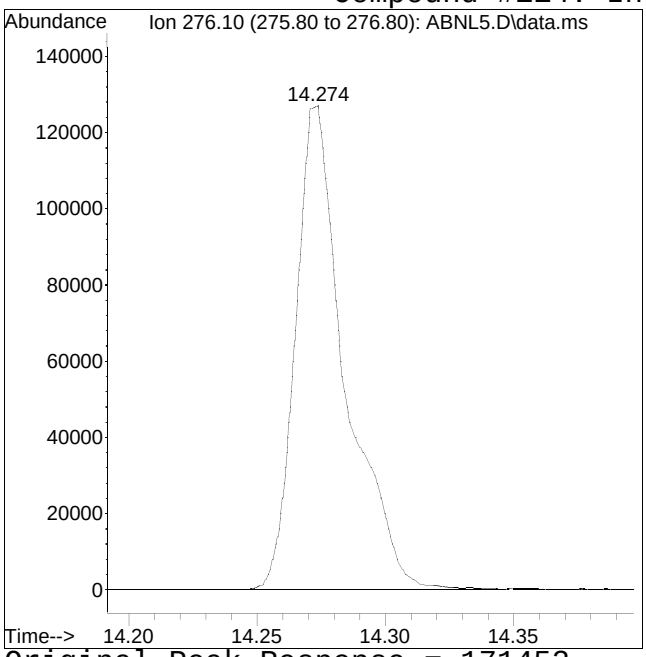
Sub List : ABNical - ABN ical sublistcal\AP9L6.D•



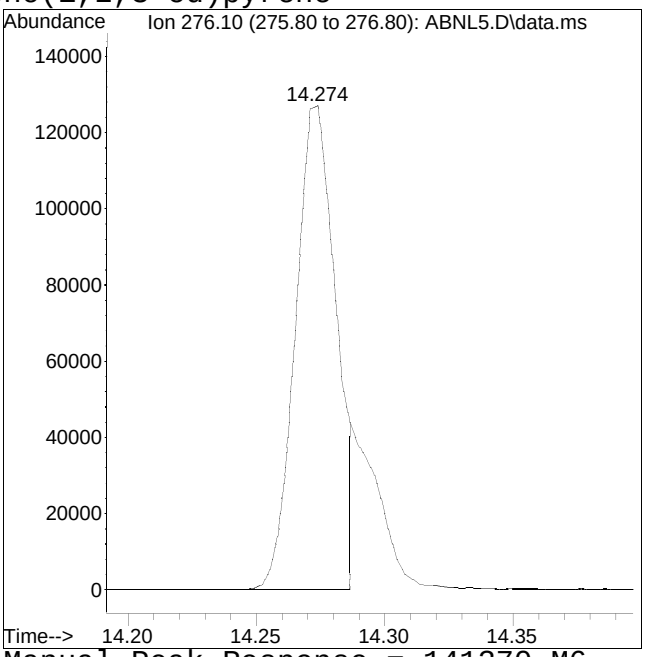
Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL5.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 7:41 pm Instrument : Dakota
Sample : IL6,32,,ABNL2.5 Lot# 10695Quant Date : 6/5/2024 5:53 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 171452



Manual Peak Response = 141370 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL4.D
Acq On : 31 May 2024 8:06 pm
Operator : Dakota:mrg
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1930266
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 17:53:03 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:53:33 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.825	152	30352	4.000	ug/ml	0.00
Standard Area 1 = 30198			Recovery = 100.51%			
35) IS1_Naphthalene-d8	6.062	136	108061	4.000	ug/ml	# 0.00
Standard Area 1 = 112237			Recovery = 96.28%			
63) IS1_Acenaphthene-d10	7.769	164	72015	4.000	ug/ml	0.00
Standard Area 1 = 76464			Recovery = 94.18%			
88) IS1_Phenanthrene-d10	9.202	188	165500	4.000	ug/ml	0.00
Standard Area 1 = 170352			Recovery = 97.15%			
104) IS1_Chrysene-d12	11.847	240	168029	4.000	ug/ml	0.00
Standard Area 1 = 183196			Recovery = 91.72%			
113) IS1_Perylene-d12	13.317	264	196634	4.000	ug/ml	0.00
Standard Area 1 = 212317			Recovery = 92.61%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.560	112	6868	0.902	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 45.10%			
7) Phenol-d6	4.499	99	8384	0.888	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 44.40%			
19) Nitrobenzene-d5	5.366	82	7909	0.946	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 94.60%			
46) 2-Fluorobiphenyl	7.129	172	24172	0.973	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 97.30%			
79) 2,4,6-Tribromophenol	8.530	330	3476	1.034	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 51.70%			
96) 4-Terphenyl-d14	10.781	244	39306	0.949	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 94.90%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.202	74	4212	0.863	ug/ml#	87
3) Pyridine	2.246	79	7471M1	0.936	ug/ml	
5) Aniline	4.508	93	10652	0.864	ug/ml#	48
6) 2-Chlorophenol	4.620	128	7673	0.902	ug/ml#	88
8) Phenol	4.512	94	9591	0.907	ug/ml#	50
9) Bis(2-chloroethyl)ether	4.586	93	6770	0.942	ug/ml	94
10) 1,3-Dichlorobenzene	4.773	146	9795	0.908	ug/ml	96
11) 1,4-Dichlorobenzene	4.844	146	9788	0.914	ug/ml	97
12) 1,2-Dichlorobenzene	4.990	146	9403	0.908	ug/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL4.D
Acq On : 31 May 2024 8:06 pm
Operator : Dakota:mrg
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1930266
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 17:53:03 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:53:33 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	4.975	79	5767	0.831	ug/ml	89
14) Bis(2-chloroisopropyl)...	5.118	45	10775	0.900	ug/ml#	84
15) 2-Methylphenol	5.102	108	6907	0.971	ug/ml	95
16) Hexachloroethane	5.320	117	3399	0.888	ug/ml#	42
17) n-Nitrosodi-n-propylamine	5.245	70	5910	0.924	ug/ml#	84
18) 3-Methylphenol/4-Methy...	5.251	108	7282	0.939	ug/ml	93
20) Nitrobenzene	5.385	77	7187	0.873	ug/ml	100
21) Isophorone	5.624	82	15738	0.988	ug/ml#	92
22) 2-Nitrophenol	5.702	139	3245	0.863	ug/ml#	86
23) 2,4-Dimethylphenol	5.767	107	6893	0.934	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.854	93	9427	0.988	ug/ml#	96
25) 2,4-Dichlorophenol	5.935	162	7832	0.917	ug/ml#	88
26) 1,2,4-Trichlorobenzene	6.016	180	9694	0.945	ug/ml	96
36) Naphthalene	6.081	128	23772	0.912	ug/ml	99
37) Benzoic Acid	5.817	105	1333	1.270	ug/ml	94
38) 4-Chloroaniline	6.146	65	3131	0.984	ug/ml	85
39) Hexachlorobutadiene	6.230	225	5695	0.926	ug/ml	97
40) p-Chloro-m-cresol	6.641	107	6595	0.936	ug/ml#	83
41) 2-Methylnaphthalene	6.759	142	17128	0.919	ug/ml	95
42) 1-Methylnaphthalene	6.855	115	6003	0.965	ug/ml	97
43) Hexachlorocyclopentadiene	6.930	237	6244	0.958	ug/ml	97
44) 2,4,6-Trichlorophenol	7.045	196	6663	0.924	ug/ml	99
45) 2,4,5-Trichlorophenol	7.073	196	7040	0.898	ug/ml	99
47) 2-Chloronaphthalene	7.228	162	19325	0.942	ug/ml	91
48) 2-Nitroaniline	7.334	138	4258	0.882	ug/ml	91
49) 1,4-Dinitrobenzene	7.464	168	1663	0.773	ug/ml	98
50) 1,3-Dinitrobenzene	7.542	168	2079	0.863	ug/ml#	1
51) Dimethyl phthalate	7.533	163	22247	0.919	ug/ml#	97
52) Acenaphthylene	7.626	152	28979	0.949	ug/ml	96
53) 2,6-Dinitrotoluene	7.576	165	4080	0.960	ug/ml#	78
54) 1,2-Dinitrobenzene	7.620	168	1308	0.876	ug/ml#	1
64) 3-Nitroaniline	7.735	138	4148	0.975	ug/ml#	88
65) Acenaphthene	7.800	154	17372	0.972	ug/ml	89
66) 2,4-Dinitrophenol	7.837	184	1512	1.173	ug/ml#	53
67) Dibenzofuran	7.968	168	29594	0.987	ug/ml	90
68) 2,4-Dinitrotoluene	7.968	165	4857	0.902	ug/ml	94
69) 4-Nitrophenol	7.912	65	3437	0.933	ug/ml#	92
70) 2,3,5,6-Tetrachlorophenol	8.058	232	6091	0.916	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL4.D
Acq On : 31 May 2024 8:06 pm
Operator : Dakota:mrg
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1930266
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 17:53:03 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:53:33 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	8.098	232	6009	0.939	ug/ml		98
72)	Diethyl phthalate	8.223	149	23664	0.965	ug/ml		98
73)	Fluorene	8.300	166	23907	1.004	ug/ml		94
74)	4-Chlorophenyl phenyl ...	8.316	204	12592	0.996	ug/ml	#	82
75)	4-Nitroaniline	8.319	138	3851	0.850	ug/ml	#	87
76)	4,6-Dinitro-o-cresol	8.359	198	2348	1.147	ug/ml	#	59
77)	NDPA/DPA	8.431	169	20819	1.013	ug/ml		93
78)	Azobenzene	8.465	77	20887	1.016	ug/ml		97
80)	4-Bromophenyl phenyl e...	8.788	248	7668	0.976	ug/ml	#	81
81)	Hexachlorobenzene	8.838	284	9103	1.007	ug/ml	#	81
82)	Pentachlorophenol	9.034	266	4651	1.099	ug/ml		98
89)	Phenanthrene	9.223	178	40662	0.980	ug/ml		99
90)	Anthracene	9.273	178	39211	0.967	ug/ml		98
91)	Carbazole	9.438	167	36486	0.929	ug/ml		97
92)	Di-n-butylphthalate	9.820	149	39805	0.933	ug/ml		98
93)	Fluoranthene	10.377	202	48976	0.925	ug/ml	#	90
94)	Benzidine	10.526	184	27390	0.903	ug/ml	#	94
95)	Pyrene	10.597	202	52725	0.948	ug/ml		100
97)	Butyl benzyl phthalate	11.306	149	16205	0.829	ug/ml		88
105)	Benzo(a)anthracene	11.837	228	54264	0.937	ug/ml		99
106)	3,3'-Dichlorobenzidine	11.831	252	18090	0.910	ug/ml	#	96
107)	Chrysene	11.875	228	52326	0.986	ug/ml		99
108)	Bis(2-ethylhexyl)phtha...	11.943	149	25179	0.900	ug/ml	#	91
109)	Di-n-octylphthalate	12.624	149	39663	0.831	ug/ml	#	75
110)	Benzo(b)fluoranthene	12.944	252	53561	0.899	ug/ml	#	91
111)	Benzo(k)fluoranthene	12.972	252	54416	0.955	ug/ml	#	93
112)	Benzo(a)pyrene	13.261	252	47957	0.904	ug/ml	#	93
114)	Indeno(1,2,3-cd)pyrene	14.271	276	54192M6	0.929	ug/mL		
115)	Dibenzo(a,h)anthracene	14.293	278	50044	0.935	ug/ml	#	88
116)	Benzo(ghi)perylene	14.492	276	50923	0.953	ug/ml	#	84

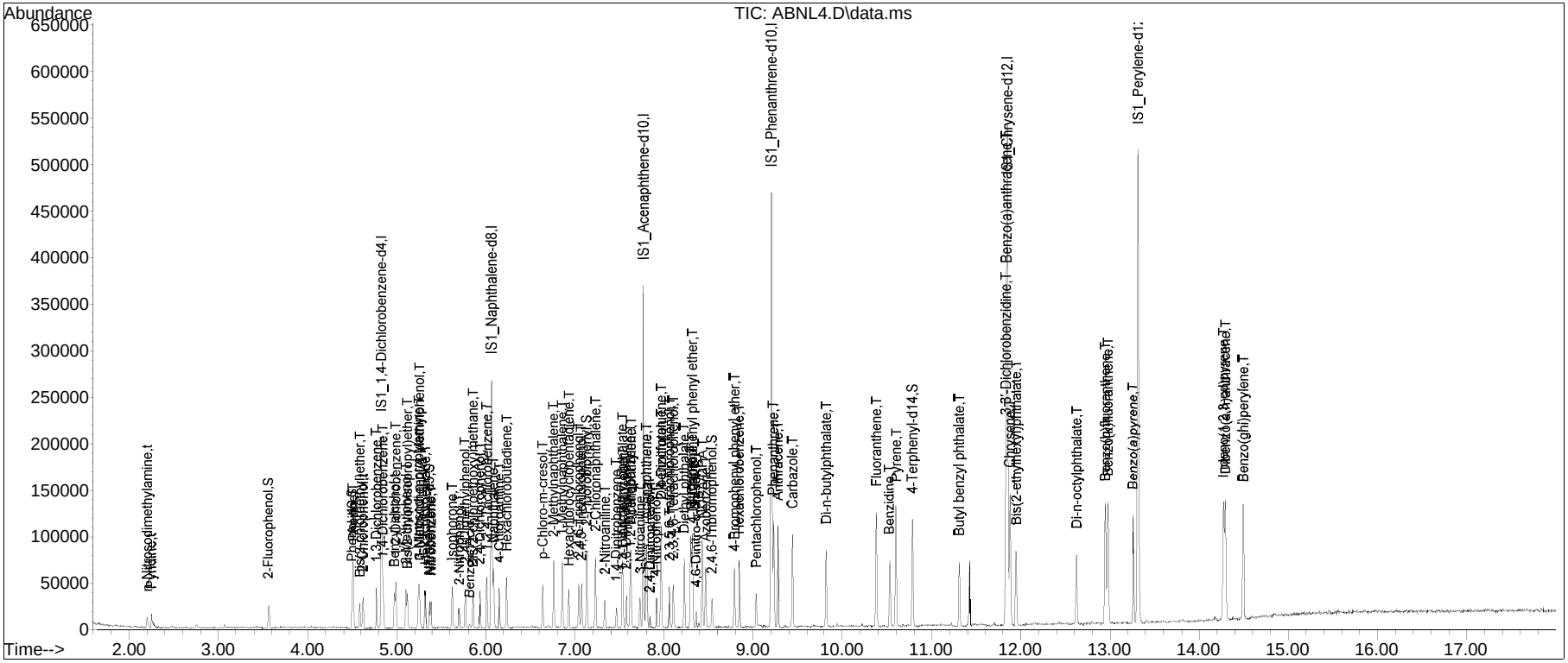
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL4.D
Acq On : 31 May 2024 8:06 pm
Operator : Dakota:mrg
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1930266
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 17:53:03 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:53:33 2024
Response via : Initial Calibration

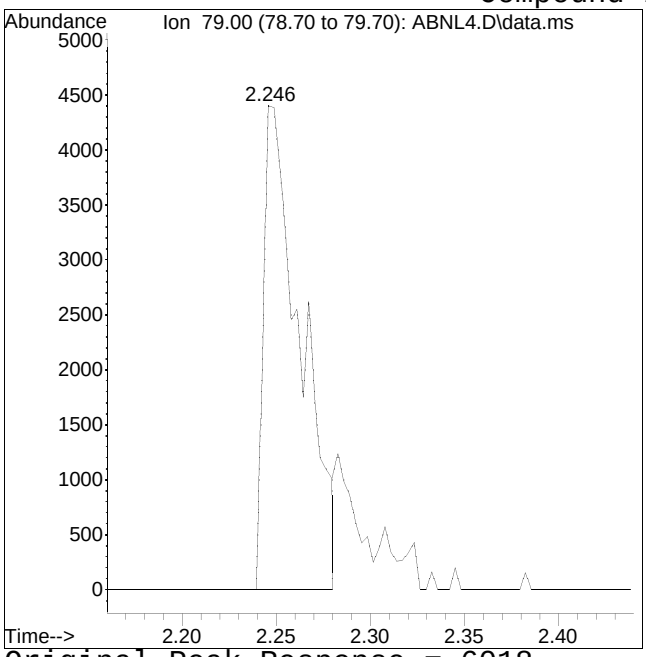
Sub List : ABNical - ABN ical sublistcal\AP9L6.D•



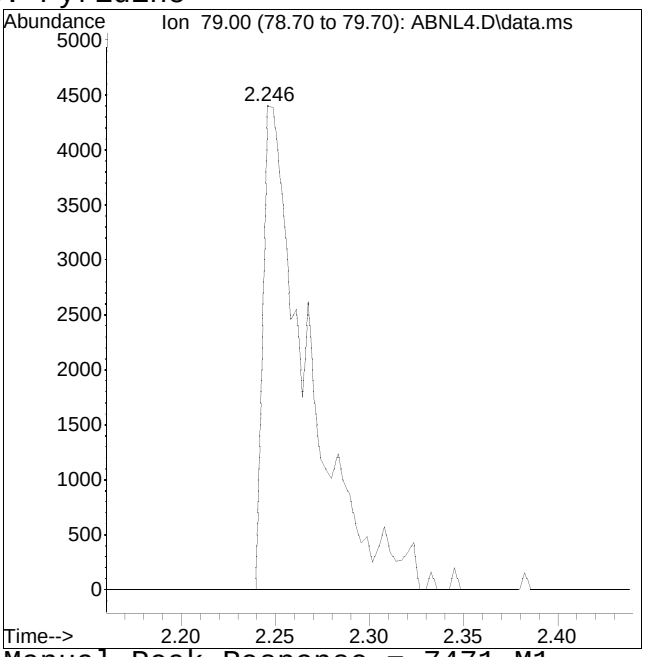
Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL4.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 8:06 pm Instrument : Dakota
Sample : IL7,32,,ABNL1 Lot# 10696 Quant Date : 6/5/2024 5:53 pm

Compound #3: Pyridine



Original Peak Response = 6018



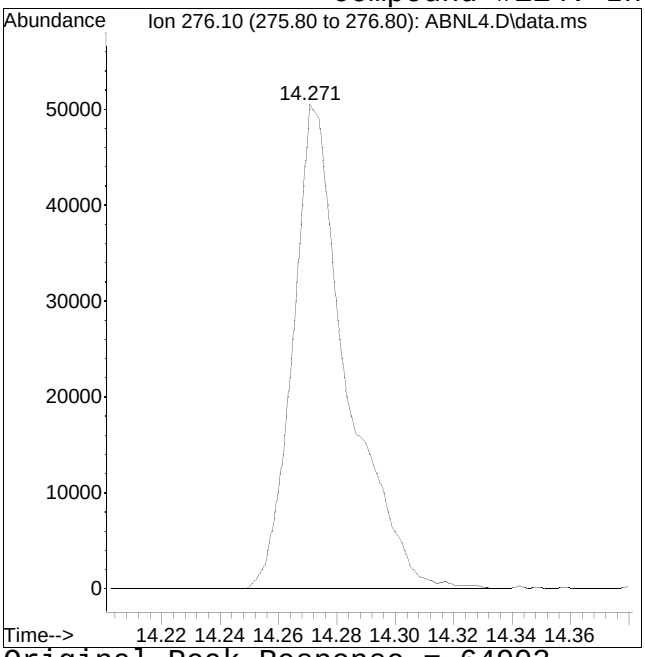
Manual Peak Response = 7471 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

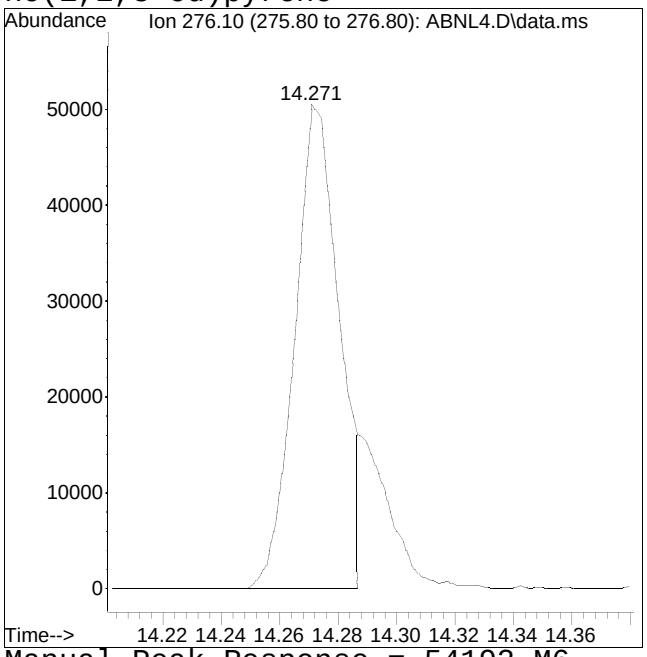
Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL4.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 8:06 pm Instrument : Dakota
Sample : IL7,32,,ABNL1 Lot# 10696 Quant Date : 6/5/2024 5:53 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 64903



Manual Peak Response = 54192 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL3.D
Acq On : 31 May 2024 8:32 pm
Operator : Dakota:mrg
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1930266
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 17:52:44 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:53:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.825	152	31152	4.000	ug/ml	0.00
Standard Area 1 = 30198			Recovery = 103.16%			
35) IS1_Naphthalene-d8	6.062	136	106818	4.000	ug/ml	0.00
Standard Area 1 = 112237			Recovery = 95.17%			
63) IS1_Acenaphthene-d10	7.769	164	70021	4.000	ug/ml	0.00
Standard Area 1 = 76464			Recovery = 91.57%			
88) IS1_Phenanthrene-d10	9.202	188	157610	4.000	ug/ml	0.00
Standard Area 1 = 170352			Recovery = 92.52%			
104) IS1_Chrysene-d12	11.847	240	159378	4.000	ug/ml	0.00
Standard Area 1 = 183196			Recovery = 87.00%			
113) IS1_Perylene-d12	13.320	264	188454	4.000	ug/ml	0.00
Standard Area 1 = 212317			Recovery = 88.76%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.560	112	3869	0.495	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 24.75%			
7) Phenol-d6	4.499	99	4917	0.508	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 25.40%			
19) Nitrobenzene-d5	5.366	82	4391	0.512	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 51.20%			
46) 2-Fluorobiphenyl	7.132	172	13004	0.530	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 53.00%			
79) 2,4,6-Tribromophenol	8.533	330	1570	0.481	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 24.05%			
96) 4-Terphenyl-d14	10.781	244	21111	0.535	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 53.50%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.199	74	2716	0.542	ug/ml#	67
3) Pyridine	2.258	79	4206M1	0.514	ug/ml	
5) Aniline	4.508	93	6346	0.502	ug/ml#	43
6) 2-Chlorophenol	4.623	128	4459	0.511	ug/ml	90
8) Phenol	4.511	94	5276	0.486	ug/ml#	36
9) Bis(2-chloroethyl)ether	4.589	93	3735	0.506	ug/ml	99
10) 1,3-Dichlorobenzene	4.773	146	5998M3	0.542	ug/ml	
11) 1,4-Dichlorobenzene	4.844	146	5249M3	0.478	ug/ml	
12) 1,2-Dichlorobenzene	4.990	146	5404	0.509	ug/ml	92

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL3.D
Acq On : 31 May 2024 8:32 pm
Operator : Dakota:mrg
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1930266
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 17:52:44 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:53:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	4.975	79	3966	0.557	ug/ml	93
14) Bis(2-chloroisopropyl)...	5.118	45	6684	0.544	ug/ml#	54
15) 2-Methylphenol	5.099	108	3619	0.496	ug/ml	93
16) Hexachloroethane	5.320	117	2062	0.525	ug/ml#	46
17) n-Nitrosodi-n-propylamine	5.245	70	3425	0.522	ug/ml#	85
18) 3-Methylphenol/4-Methy...	5.257	108	4218	0.530	ug/ml	95
20) Nitrobenzene	5.385	77	4109	0.487	ug/ml#	84
21) Isophorone	5.627	82	8387	0.513	ug/ml#	93
22) 2-Nitrophenol	5.699	139	1978	0.513	ug/ml#	70
23) 2,4-Dimethylphenol	5.767	107	3794	0.501	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.854	93	5280	0.539	ug/ml#	91
25) 2,4-Dichlorophenol	5.938	162	4344	0.495	ug/ml#	93
26) 1,2,4-Trichlorobenzene	6.016	180	5676	0.539	ug/ml	96
36) Naphthalene	6.081	128	14185	0.551	ug/ml	98
37) Benzoic Acid	0.000		0	N.D.		
38) 4-Chloroaniline	6.149	65	1648	0.524	ug/ml	82
39) Hexachlorobutadiene	6.230	225	3377	0.556	ug/ml	97
40) p-Chloro-m-cresol	6.644	107	3556	0.510	ug/ml	91
41) 2-Methylnaphthalene	6.759	142	9677	0.525	ug/ml	97
42) 1-Methylnaphthalene	6.855	115	3422	0.557	ug/ml	91
43) Hexachlorocyclopentadiene	6.933	237	3342	0.519	ug/ml#	93
44) 2,4,6-Trichlorophenol	7.045	196	3408M3	0.478	ug/ml	
45) 2,4,5-Trichlorophenol	7.076	196	3740	0.482	ug/ml	97
47) 2-Chloronaphthalene	7.228	162	11028	0.544	ug/ml#	88
48) 2-Nitroaniline	7.337	138	2190	0.459	ug/ml#	84
49) 1,4-Dinitrobenzene	7.464	168	973	0.458	ug/ml	99
50) 1,3-Dinitrobenzene	7.542	168	1035	0.435	ug/ml#	1
51) Dimethyl phthalate	7.533	163	12763	0.534	ug/ml#	93
52) Acenaphthylene	7.626	152	15496	0.513	ug/ml	98
53) 2,6-Dinitrotoluene	7.579	165	1761	0.419	ug/ml	90
54) 1,2-Dinitrobenzene	7.620	168	617	0.418	ug/ml#	1
64) 3-Nitroaniline	7.731	138	1992	0.482	ug/ml#	82
65) Acenaphthene	7.800	154	9219	0.531	ug/ml	84
66) 2,4-Dinitrophenol	7.834	184	600	0.841	ug/ml#	25
67) Dibenzofuran	7.968	168	16567	0.568	ug/ml	92
68) 2,4-Dinitrotoluene	7.965	165	2454	0.469	ug/ml#	90
69) 4-Nitrophenol	7.915	65	1712	0.478	ug/ml#	93
70) 2,3,5,6-Tetrachlorophenol	8.058	232	3217	0.498	ug/ml	92

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL3.D
Acq On : 31 May 2024 8:32 pm
Operator : Dakota:mrg
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1930266
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 17:52:44 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:53:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	8.098	232	3000	0.482	ug/ml		94
72)	Diethyl phthalate	8.223	149	13296	0.558	ug/ml		98
73)	Fluorene	8.297	166	12236	0.528	ug/ml		85
74)	4-Chlorophenyl phenyl ...	8.316	204	7192	0.585	ug/ml	#	77
75)	4-Nitroaniline	8.319	138	2113	0.480	ug/ml	#	84
76)	4,6-Dinitro-o-cresol	8.356	198	978	0.770	ug/ml	#	1
77)	NDPA/DPA	8.428	169	10788	0.540	ug/ml	#	91
78)	Azobenzene	8.465	77	10781	0.539	ug/ml		96
80)	4-Bromophenyl phenyl e...	8.785	248	4233	0.554	ug/ml	#	81
81)	Hexachlorobenzene	8.841	284	4682	0.532	ug/ml	#	85
82)	Pentachlorophenol	9.037	266	2001	0.676	ug/ml		94
89)	Phenanthrene	9.223	178	20728	0.525	ug/ml		97
90)	Anthracene	9.273	178	20319	0.526	ug/ml		97
91)	Carbazole	9.438	167	19803	0.530	ug/ml		100
92)	Di-n-butylphthalate	9.820	149	20716	0.510	ug/ml		99
93)	Fluoranthene	10.376	202	25087	0.498	ug/ml	#	89
94)	Benzidine	10.526	184	13570	0.470	ug/ml	#	92
95)	Pyrene	10.597	202	27724	0.523	ug/ml		98
97)	Butyl benzyl phthalate	11.306	149	8236	0.442	ug/ml		93
105)	Benzo(a)anthracene	11.837	228	28074	0.511	ug/ml		99
106)	3,3'-Dichlorobenzidine	11.834	252	8896	0.472	ug/ml	#	88
107)	Chrysene	11.871	228	28654	0.569	ug/ml		99
108)	Bis(2-ethylhexyl)phtha...	11.943	149	12717	0.479	ug/ml	#	95
109)	Di-n-octylphthalate	12.624	149	21416	0.473	ug/ml	#	76
110)	Benzo(b)fluoranthene	12.947	252	28858	0.511	ug/ml	#	93
111)	Benzo(k)fluoranthene	12.972	252	28576	0.529	ug/ml	#	93
112)	Benzo(a)pyrene	13.261	252	25132	0.500	ug/ml	#	93
114)	Indeno(1,2,3-cd)pyrene	14.274	276	26132M6	0.468	ug/mL		
115)	Dibenzo(a,h)anthracene	14.293	278	28407	0.554	ug/ml	#	90
116)	Benzo(ghi)perylene	14.489	276	26844	0.524	ug/ml	#	86

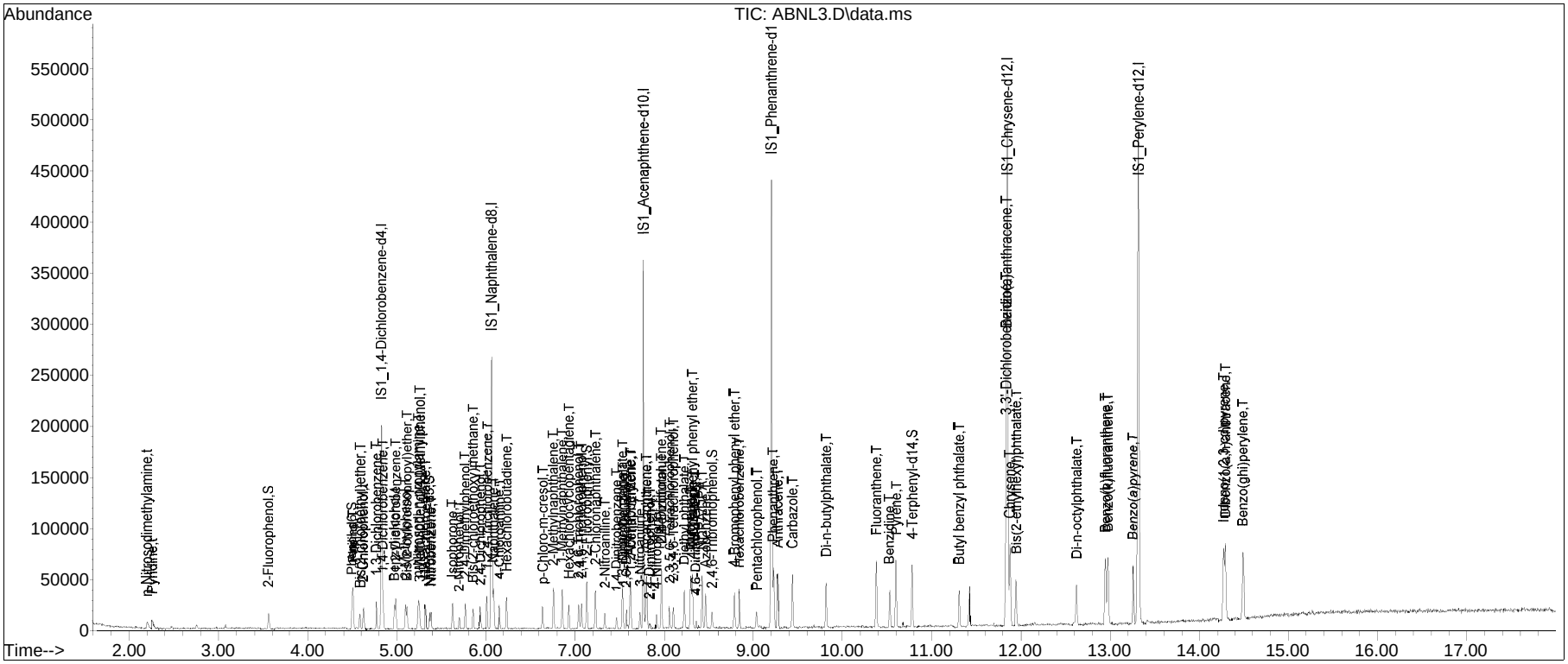
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL3.D
Acq On : 31 May 2024 8:32 pm
Operator : Dakota:mrg
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1930266
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 17:52:44 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:53:17 2024
Response via : Initial Calibration

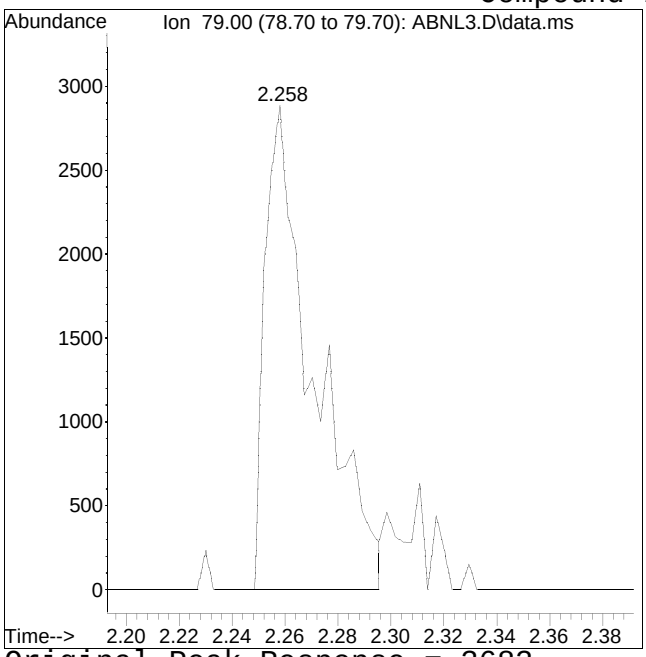
Sub List : ABNical - ABN ical sublistcal\AP9L6.D•

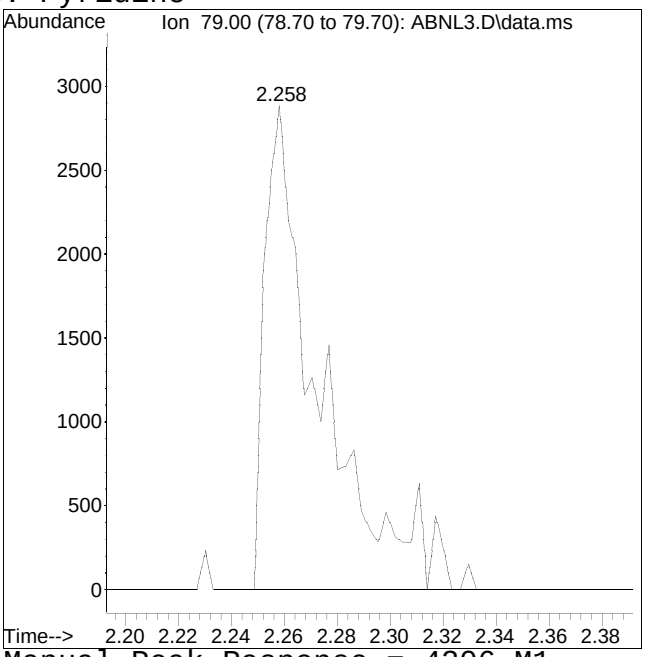


Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL3.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 8:32 pm Instrument : Dakota
Sample : IL8,32,,ABNL0.5 Lot# 10697Quant Date : 6/5/2024 5:53 pm

Compound #3: Pyridine



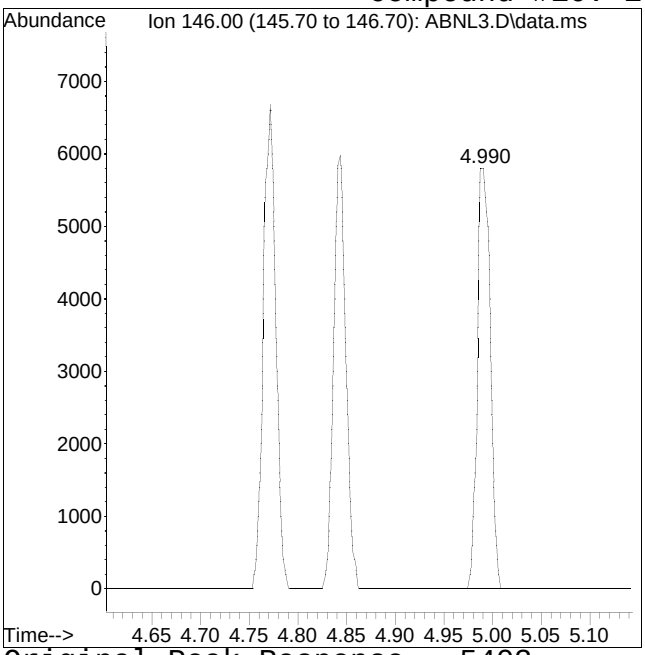


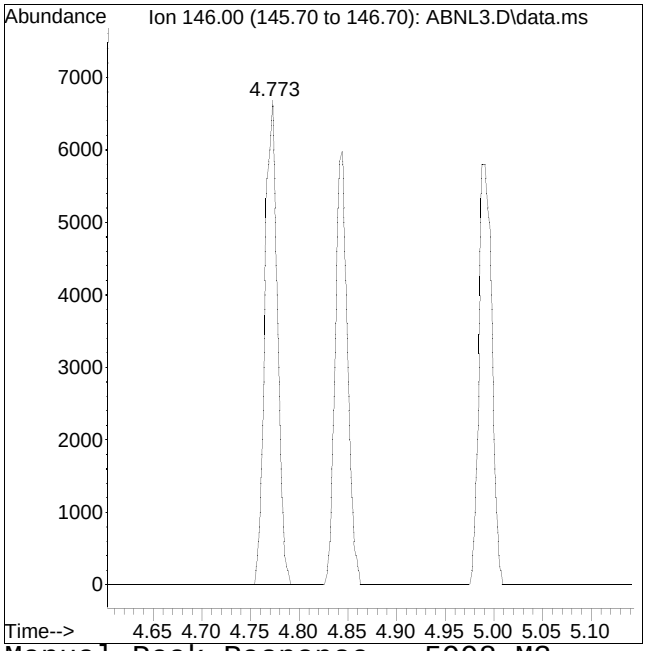
Original Peak Response = 3683 Manual Peak Response = 4206 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL3.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 8:32 pm Instrument : Dakota
Sample : IL8,32,,ABNL0.5 Lot# 10697Quant Date : 6/5/2024 5:53 pm

Compound #10: 1,3-Dichlorobenzene





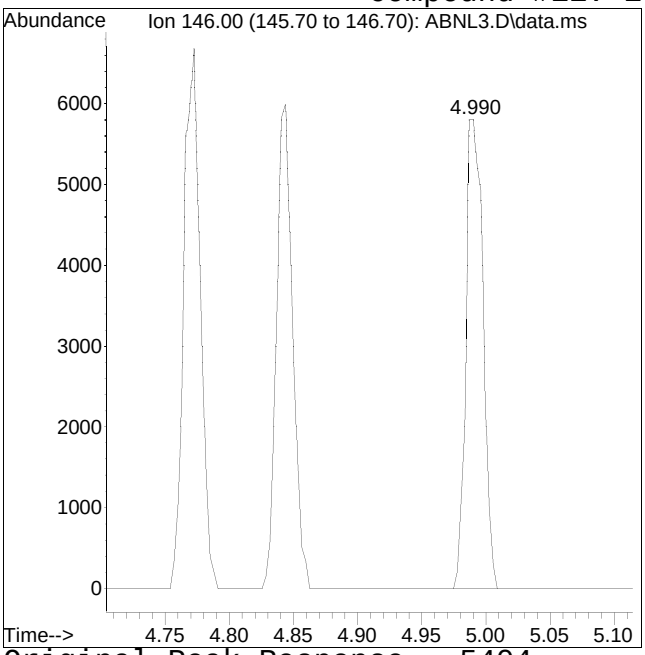
Original Peak Response = 5403 Manual Peak Response = 5998 M3

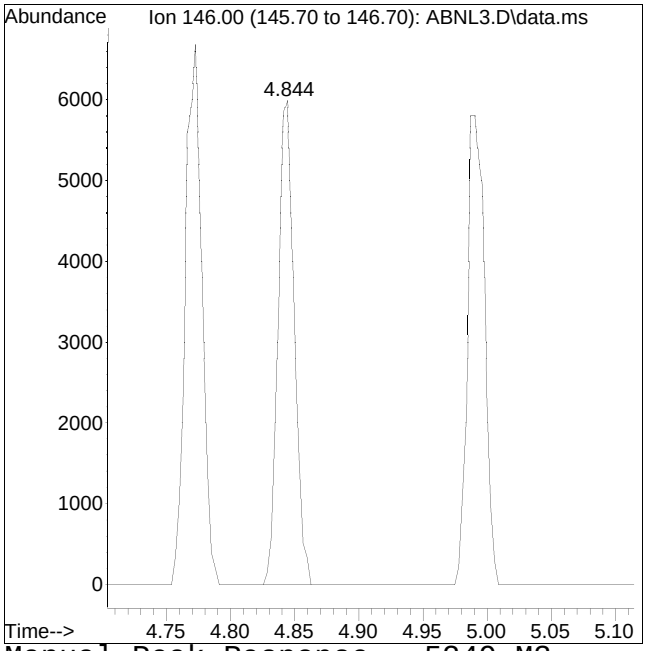
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL3.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 8:32 pm Instrument : Dakota
Sample : IL8,32,,ABNL0.5 Lot# 10697Quant Date : 6/5/2024 5:53 pm

Compound #11: 1,4-Dichlorobenzene





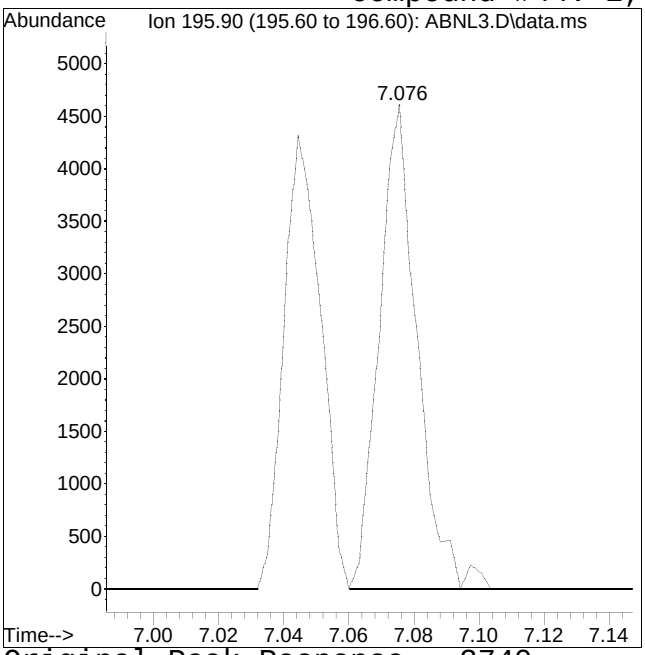
Original Peak Response = 5404 Manual Peak Response = 5249 M3

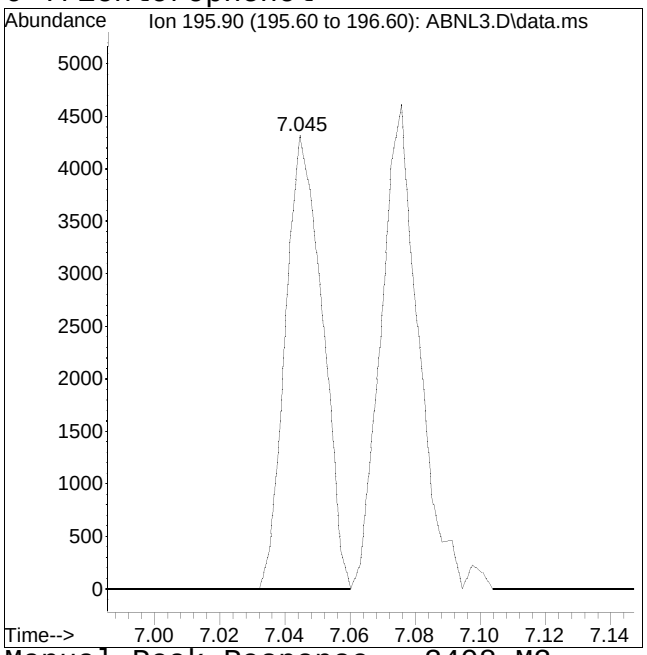
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL3.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 8:32 pm Instrument : Dakota
Sample : IL8,32,,ABNL0.5 Lot# 10697Quant Date : 6/5/2024 5:53 pm

Compound #44: 2,4,6-Trichlorophenol





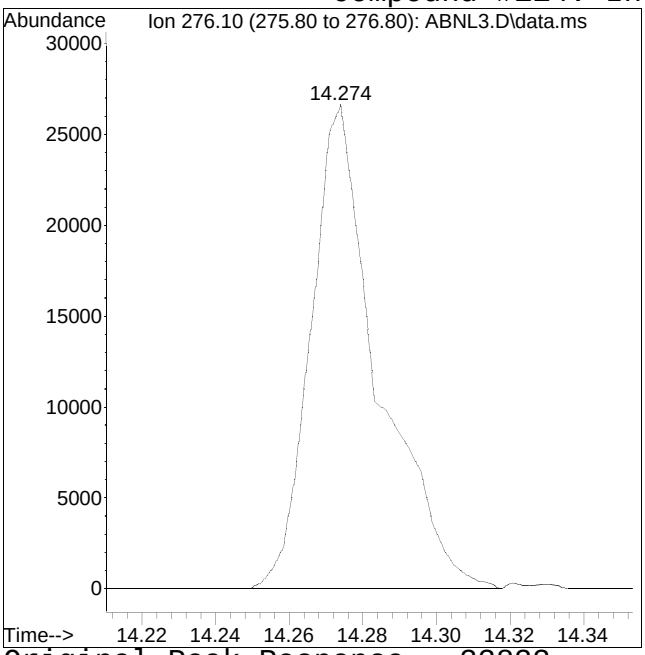
Original Peak Response = 3740 Manual Peak Response = 3408 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

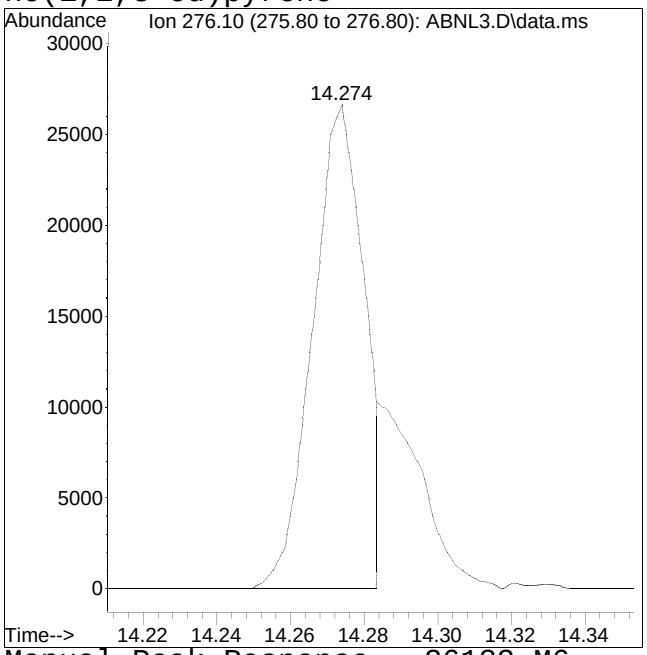
Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL3.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 8:32 pm Instrument : Dakota
Sample : IL8,32,,ABNL0.5 Lot# 10697Quant Date : 6/5/2024 5:53 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 33833



Manual Peak Response = 26132 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL2.D
Acq On : 31 May 2024 8:54 pm
Operator : Dakota:mrg
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1930266
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 17:46:31 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:47:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.826	152	28803	4.000	ug/ml	0.00
Standard Area 1 = 30198			Recovery = 95.38%			
35) IS1_Naphthalene-d8	6.063	136	101577	4.000	ug/ml	# 0.00
Standard Area 1 = 112237			Recovery = 90.50%			
63) IS1_Acenaphthene-d10	7.766	164	68982	4.000	ug/ml	0.00
Standard Area 1 = 76464			Recovery = 90.22%			
88) IS1_Phenanthrene-d10	9.199	188	157688	4.000	ug/ml	0.00
Standard Area 1 = 170352			Recovery = 92.57%			
104) IS1_Chrysene-d12	11.844	240	164945	4.000	ug/ml	0.00
Standard Area 1 = 183196			Recovery = 90.04%			
113) IS1_Perylene-d12	13.317	264	200359	4.000	ug/ml	0.00
Standard Area 1 = 212317			Recovery = 94.37%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.557	112	1429	0.198	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 9.90%#			
7) Phenol-d6	4.499	99	2032	0.227	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 11.35%#			
19) Nitrobenzene-d5	5.366	82	1615	0.204	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 20.40%#			
46) 2-Fluorobiphenyl	7.129	172	5285	0.226	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 22.60%#			
79) 2,4,6-Tribromophenol	8.530	330	559	0.174	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 8.70%#			
96) 4-Terphenyl-d14	10.778	244	9092	0.230	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 23.00%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.208	74	860	0.186	ug/ml#	88
3) Pyridine	2.268	79	1404	0.185	ug/ml#	33
5) Aniline	4.508	93	2616	0.224	ug/ml#	51
6) 2-Chlorophenol	4.623	128	1746	0.216	ug/ml#	78
8) Phenol	4.515	94	2091	0.208	ug/ml#	40
9) Bis(2-chloroethyl)ether	4.589	93	1645	0.241	ug/ml#	83
10) 1,3-Dichlorobenzene	4.773	146	2207	0.216	ug/ml	93
11) 1,4-Dichlorobenzene	4.841	146	2183M3	0.215	ug/ml	
12) 1,2-Dichlorobenzene	4.990	146	2198	0.224	ug/ml	91

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL2.D
Acq On : 31 May 2024 8:54 pm
Operator : Dakota:mrg
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1930266
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 17:46:31 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:47:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	4.978	79	1488	0.226	ug/ml	88
14) Bis(2-chloroisopropyl)...	5.115	45	2465	0.217	ug/ml#	52
15) 2-Methylphenol	5.099	108	1237	0.183	ug/ml#	74
16) Hexachloroethane	5.320	117	861	0.237	ug/ml#	57
17) n-Nitrosodi-n-propylamine	5.245	70	1300	0.214	ug/ml#	59
18) 3-Methylphenol/4-Methy...	5.254	108	1512	0.205	ug/ml#	94
20) Nitrobenzene	5.385	77	1778	0.228	ug/ml#	82
21) Isophorone	5.627	82	2858	0.189	ug/ml#	65
22) 2-Nitrophenol	5.699	139	685	0.192	ug/ml#	31
23) 2,4-Dimethylphenol	5.767	107	1290	0.184	ug/ml#	78
24) Bis(2-chloroethoxy)met...	5.854	93	1853	0.205	ug/ml#	86
25) 2,4-Dichlorophenol	5.935	162	1577	0.194	ug/ml	86
26) 1,2,4-Trichlorobenzene	6.013	180	2042	0.210	ug/ml	94
36) Naphthalene	6.081	128	5579	0.228	ug/ml	99
37) Benzoic Acid	0.000		0	N.D.		
38) 4-Chloroaniline	6.146	65	634	0.212	ug/ml#	70
39) Hexachlorobutadiene	6.230	225	1224	0.212	ug/ml	97
40) p-Chloro-m-cresol	6.638	107	1294	0.195	ug/ml#	79
41) 2-Methylnaphthalene	6.759	142	3757	0.214	ug/ml	90
42) 1-Methylnaphthalene	6.852	115	1099M3	0.188	ug/ml	
43) Hexachlorocyclopentadiene	6.930	237	1205	0.197	ug/ml#	94
44) 2,4,6-Trichlorophenol	7.051	196	1488M3	0.220	ug/ml	
45) 2,4,5-Trichlorophenol	7.076	196	1474	0.200	ug/ml	98
47) 2-Chloronaphthalene	7.225	162	4009	0.208	ug/ml	91
48) 2-Nitroaniline	7.337	138	803	0.177	ug/ml	88
49) 1,4-Dinitrobenzene	7.461	168	419M2	0.207	ug/ml	
50) 1,3-Dinitrobenzene	7.542	168	495M2	0.219	ug/ml	
51) Dimethyl phthalate	7.533	163	4906	0.216	ug/ml#	93
52) Acenaphthylene	7.626	152	6283	0.219	ug/ml	96
53) 2,6-Dinitrotoluene	7.576	165	863	0.216	ug/ml#	47
54) 1,2-Dinitrobenzene	7.623	168	291M2	0.207	ug/ml	
64) 3-Nitroaniline	7.728	138	740	0.182	ug/ml#	52
65) Acenaphthene	7.800	154	3806	0.222	ug/ml	90
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	7.965	168	6286	0.219	ug/ml	90
68) 2,4-Dinitrotoluene	7.965	165	964	0.187	ug/ml	90
69) 4-Nitrophenol	7.915	65	650	0.184	ug/ml#	68
70) 2,3,5,6-Tetrachlorophenol	8.055	232	1277	0.201	ug/ml	90

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL2.D
Acq On : 31 May 2024 8:54 pm
Operator : Dakota:mrg
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1930266
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 17:46:31 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:47:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	8.098	232	1129M3	0.184	ug/ml	
72)	Diethyl phthalate	8.220	149	5526	0.235	ug/ml	95
73)	Fluorene	8.297	166	5340	0.234	ug/ml	99
74)	4-Chlorophenyl phenyl ...	8.313	204	2805	0.232	ug/ml#	78
75)	4-Nitroaniline	8.316	138	944	0.217	ug/ml#	72
76)	4,6-Dinitro-o-cresol	0.000		0	N.D.		
77)	NDPA/DPA	8.425	169	4398	0.223	ug/ml	95
78)	Azobenzene	8.462	77	4326	0.220	ug/ml#	77
80)	4-Bromophenyl phenyl e...	8.785	248	1583	0.210	ug/ml#	75
81)	Hexachlorobenzene	8.838	284	1947	0.225	ug/ml#	80
82)	Pentachlorophenol	9.034	266	647	0.450	ug/ml#	19
89)	Phenanthrene	9.223	178	9345	0.236	ug/ml	99
90)	Anthracene	9.273	178	8645M3	0.224	ug/ml	
91)	Carbazole	9.435	167	8124	0.217	ug/ml#	97
92)	Di-n-butylphthalate	9.817	149	8475	0.208	ug/ml#	93
93)	Fluoranthene	10.373	202	11599	0.230	ug/ml#	91
94)	Benzidine	10.523	184	5515	0.191	ug/ml#	83
95)	Pyrene	10.594	202	12263	0.231	ug/ml	96
97)	Butyl benzyl phthalate	11.303	149	3830	0.206	ug/ml#	87
105)	Benzo(a)anthracene	11.837	228	13558	0.239	ug/ml	100
106)	3,3'-Dichlorobenzidine	11.831	252	3688	0.189	ug/ml	97
107)	Chrysene	11.868	228	13123	0.252	ug/ml	95
108)	Bis(2-ethylhexyl)phtha...	11.943	149	5227	0.190	ug/ml#	94
109)	Di-n-octylphthalate	12.621	149	8750	0.187	ug/ml#	81
110)	Benzo(b)fluoranthene	12.944	252	13620	0.233	ug/ml#	93
111)	Benzo(k)fluoranthene	12.969	252	12563	0.225	ug/ml#	88
112)	Benzo(a)pyrene	13.261	252	11911	0.229	ug/ml#	91
114)	Indeno(1,2,3-cd)pyrene	14.271	276	12739M6	0.214	ug/mL	
115)	Dibenzo(a,h)anthracene	14.287	278	11280	0.207	ug/ml#	89
116)	Benzo(ghi)perylene	14.489	276	12175	0.224	ug/ml#	85

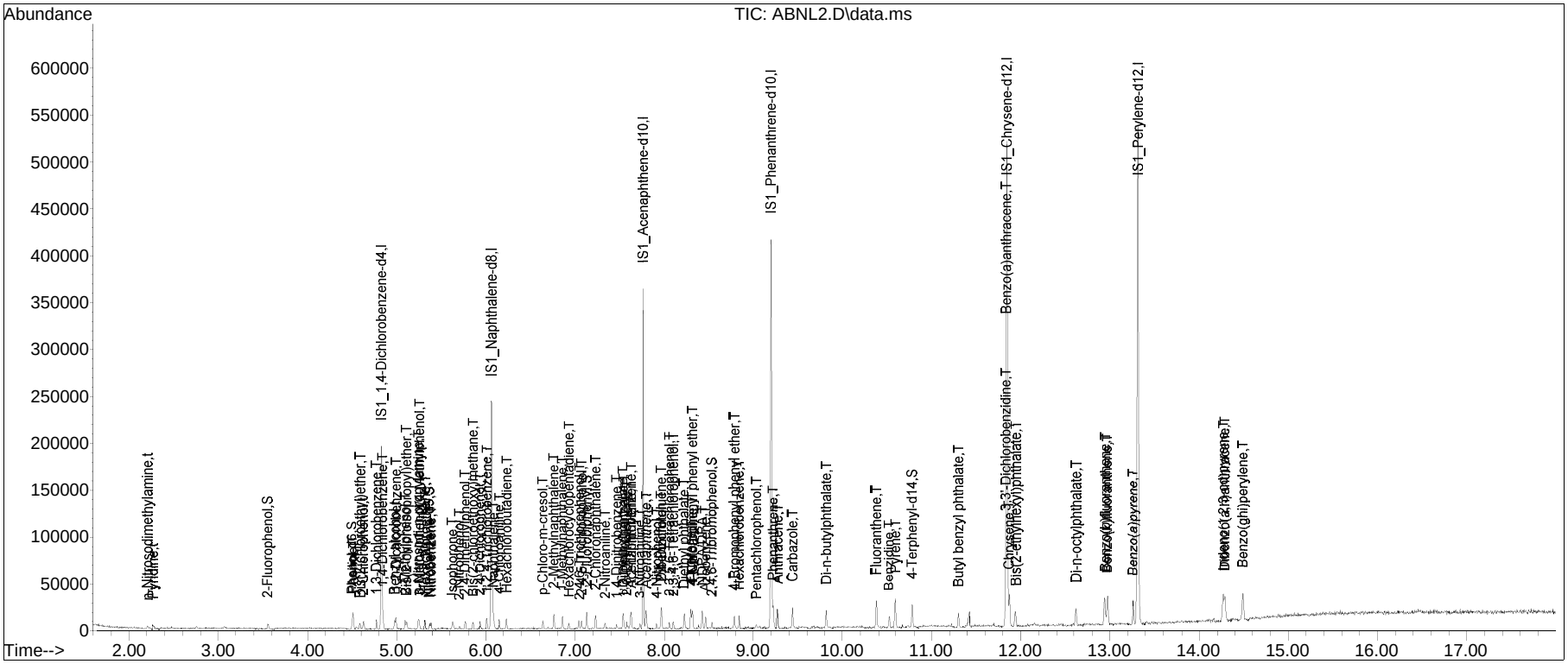
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL2.D
Acq On : 31 May 2024 8:54 pm
Operator : Dakota:mrg
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1930266
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 17:46:31 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:47:05 2024
Response via : Initial Calibration

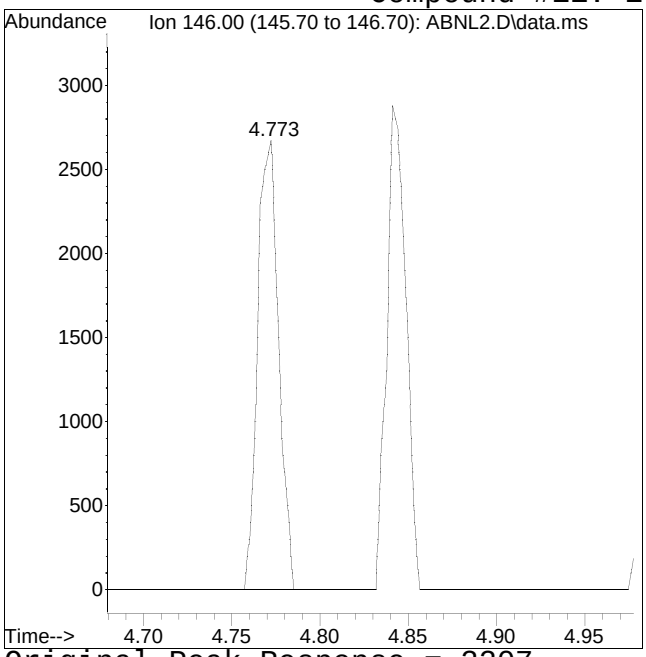
Sub List : ABNical - ABN ical sublistcal\AP9L6.D•

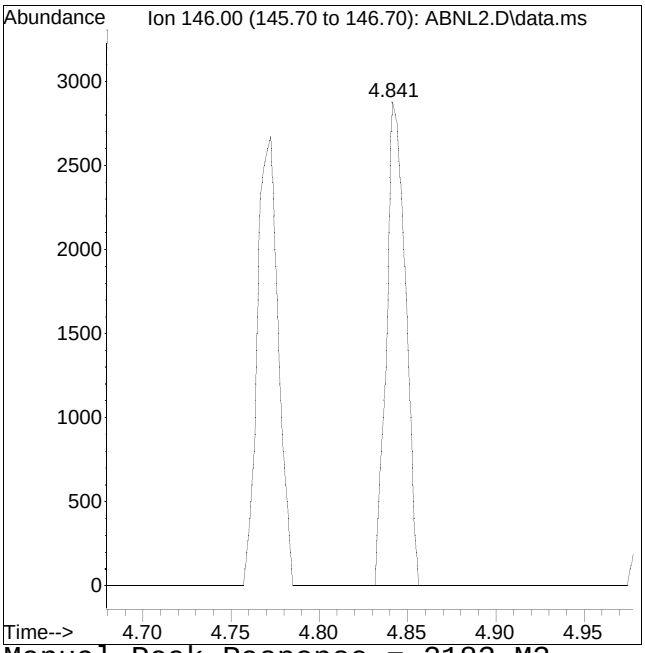


Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL2.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 8:54 pm Instrument : Dakota
Sample : IL9,32,,ABNL0.2 Lot# 10698Quant Date : 6/5/2024 5:47 pm

Compound #11: 1,4-Dichlorobenzene





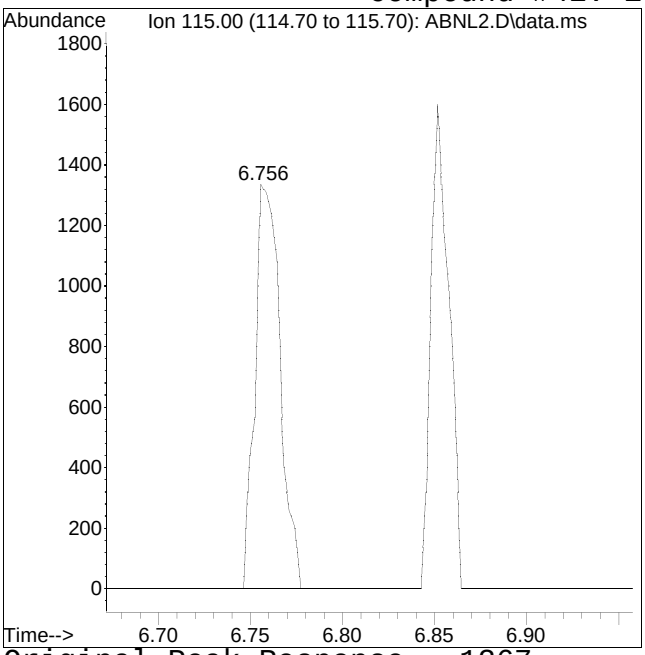
Original Peak Response = 2207 Manual Peak Response = 2183 M3

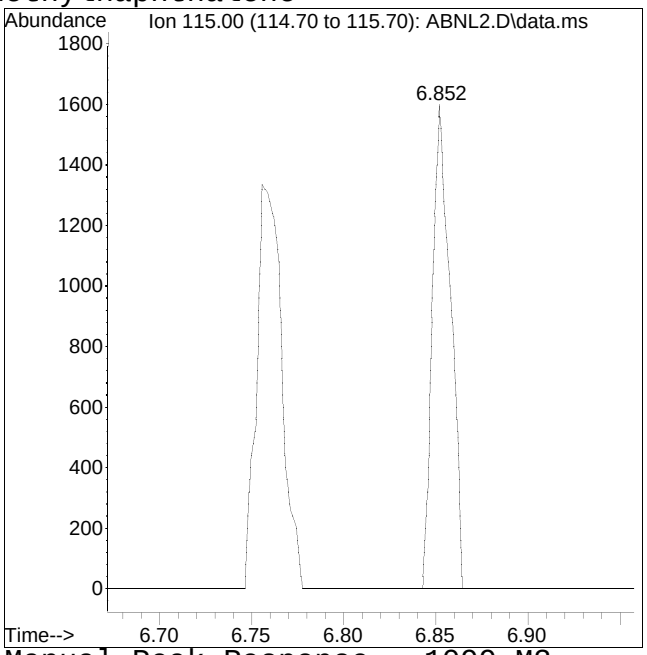
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL2.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 8:54 pm Instrument : Dakota
Sample : IL9,32,,ABNL0.2 Lot# 10698Quant Date : 6/5/2024 5:47 pm

Compound #42: 1-Methylnaphthalene





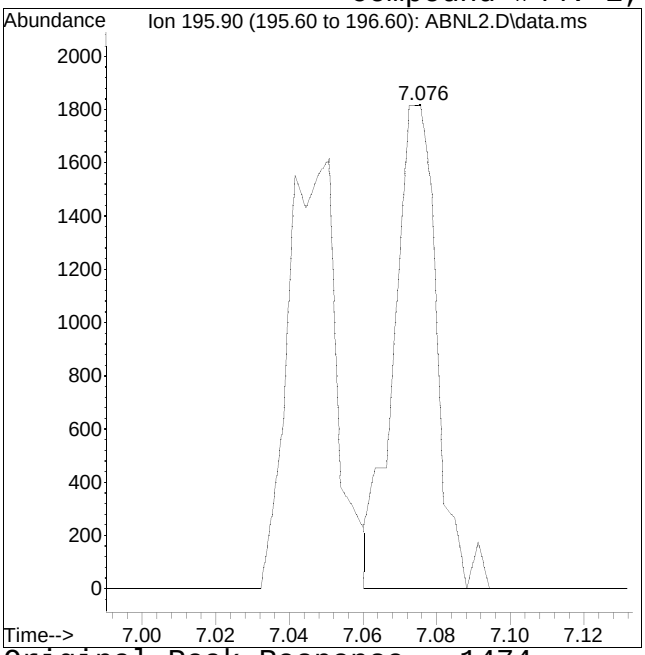
Original Peak Response = 1267 Manual Peak Response = 1099 M3

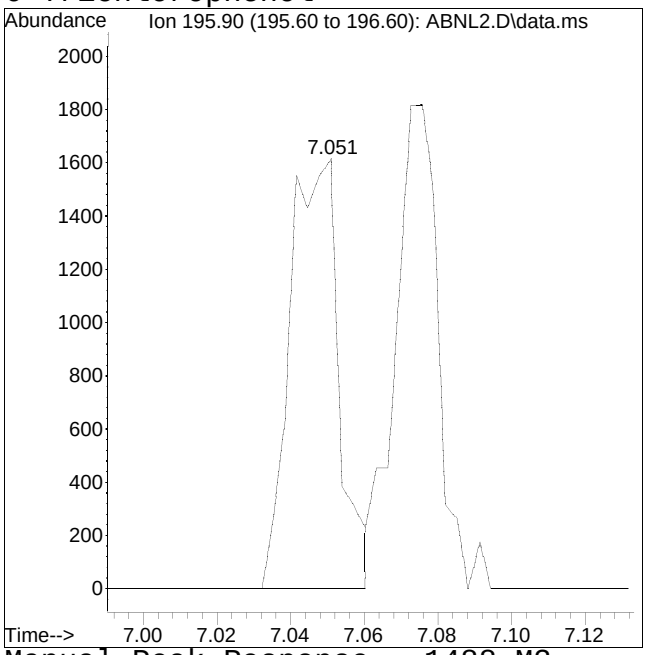
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL2.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 8:54 pm Instrument : Dakota
Sample : IL9,32,,ABNL0.2 Lot# 10698Quant Date : 6/5/2024 5:47 pm

Compound #44: 2,4,6-Trichlorophenol





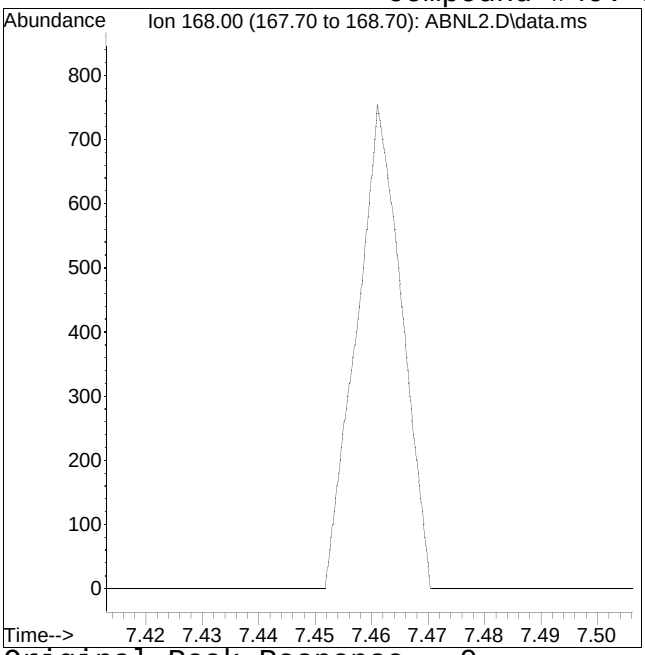
Original Peak Response = 1474 Manual Peak Response = 1488 M3

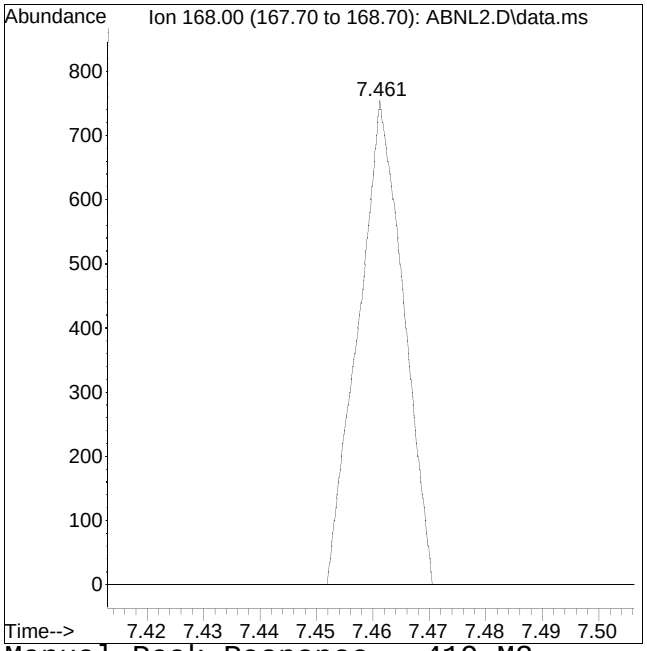
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL2.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 8:54 pm Instrument : Dakota
Sample : IL9,32,,ABNL0.2 Lot# 10698Quant Date : 6/5/2024 5:47 pm

Compound #49: 1,4-Dinitrobenzene



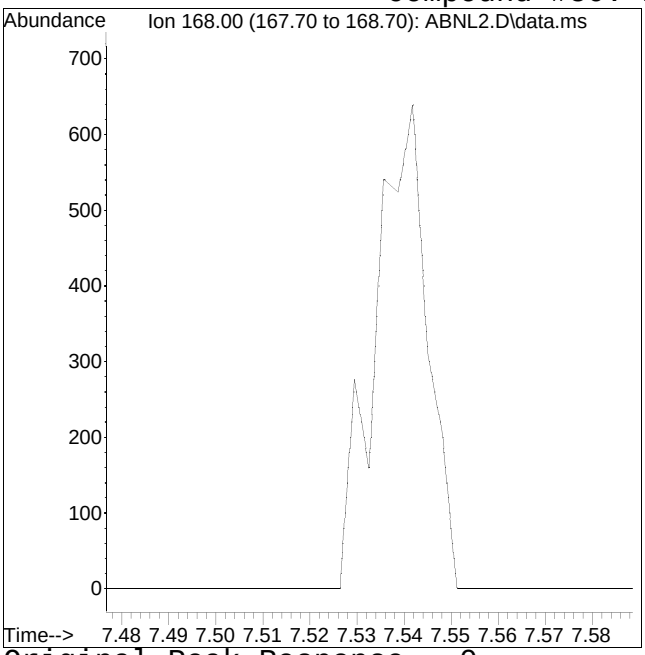


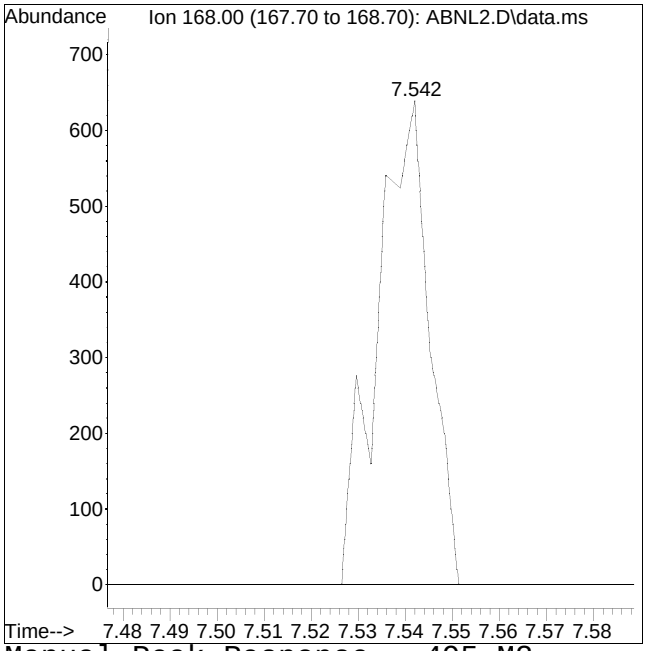
Original Peak Response = 0 Manual Peak Response = 419 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL2.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 8:54 pm Instrument : Dakota
Sample : IL9,32,,ABNL0.2 Lot# 10698Quant Date : 6/5/2024 5:47 pm

Compound #50: 1,3-Dinitrobenzene



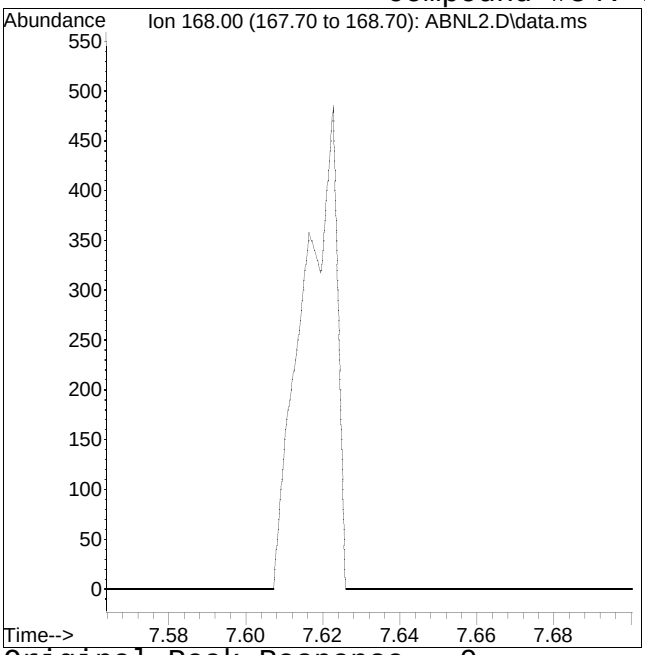


Original Peak Response = 0 Manual Peak Response = 495 M2
M2 = Peak not found by automatic integration algorithm.

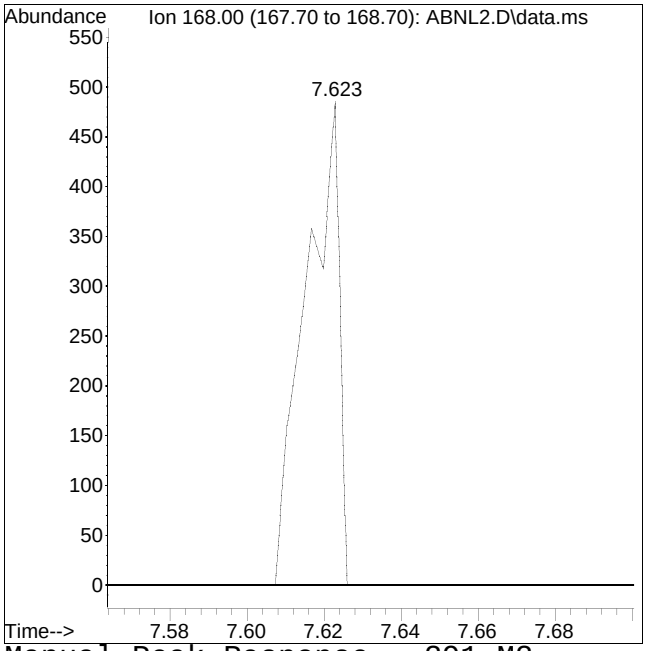
Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL2.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 8:54 pm Instrument : Dakota
Sample : IL9,32,,ABNL0.2 Lot# 10698Quant Date : 6/5/2024 5:47 pm

Compound #54: 1,2-Dinitrobenzene



Original Peak Response = 0



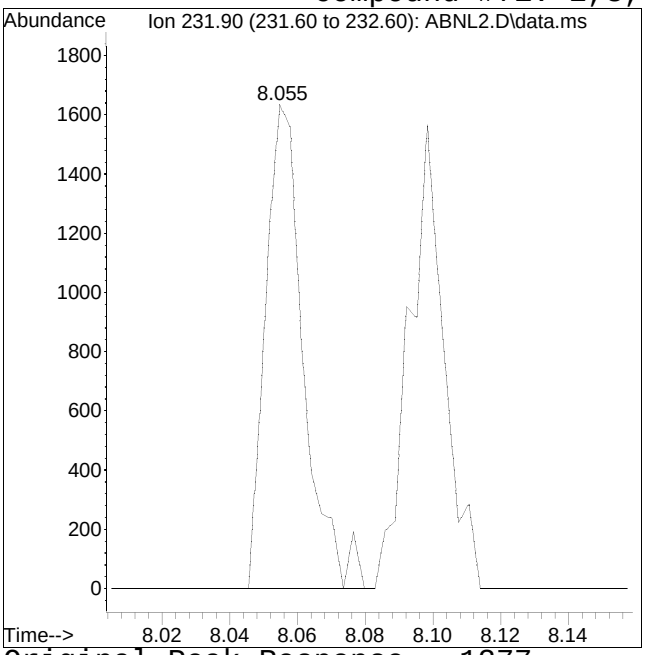
Manual Peak Response = 291 M2

M2 = Peak not found by automatic integration algorithm.

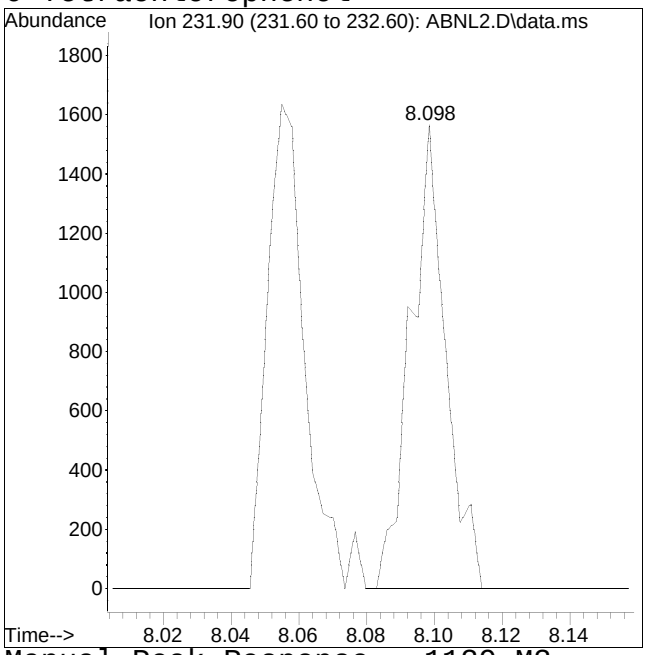
Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL2.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 8:54 pm Instrument : Dakota
Sample : IL9,32,,ABNL0.2 Lot# 10698Quant Date : 6/5/2024 5:47 pm

Compound #71: 2,3,4,6-Tetrachlorophenol



Original Peak Response = 1277



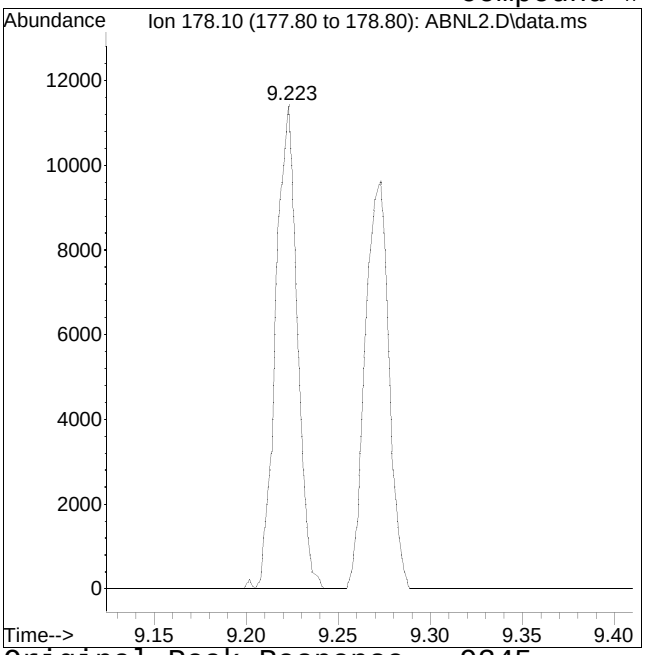
Manual Peak Response = 1129 M3

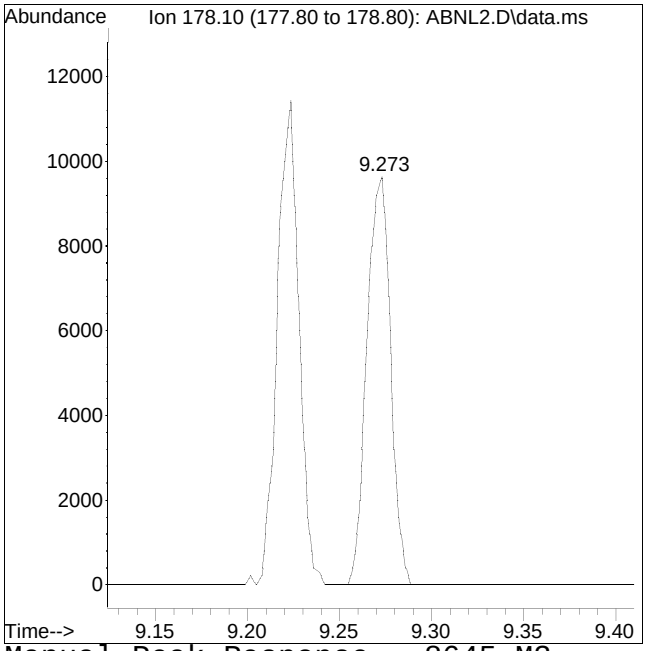
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL2.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 8:54 pm Instrument : Dakota
Sample : IL9,32,,ABNL0.2 Lot# 10698Quant Date : 6/5/2024 5:47 pm

Compound #90: Anthracene





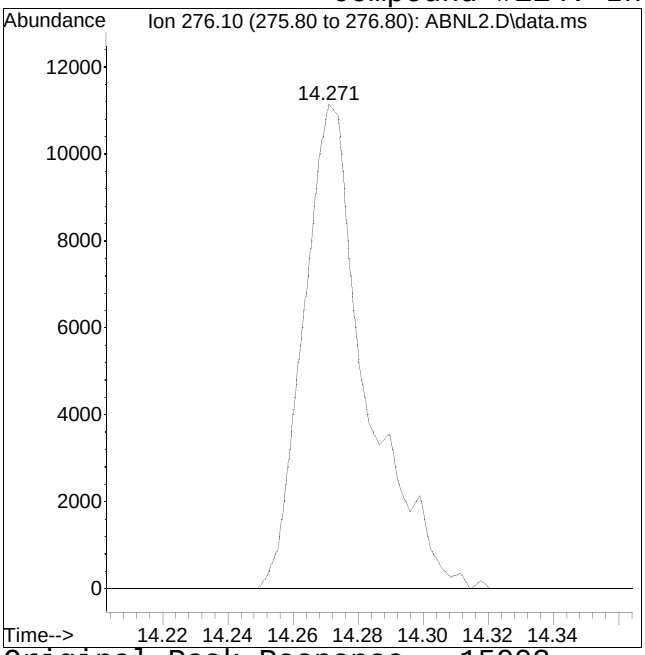
Original Peak Response = 9345 Manual Peak Response = 8645 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

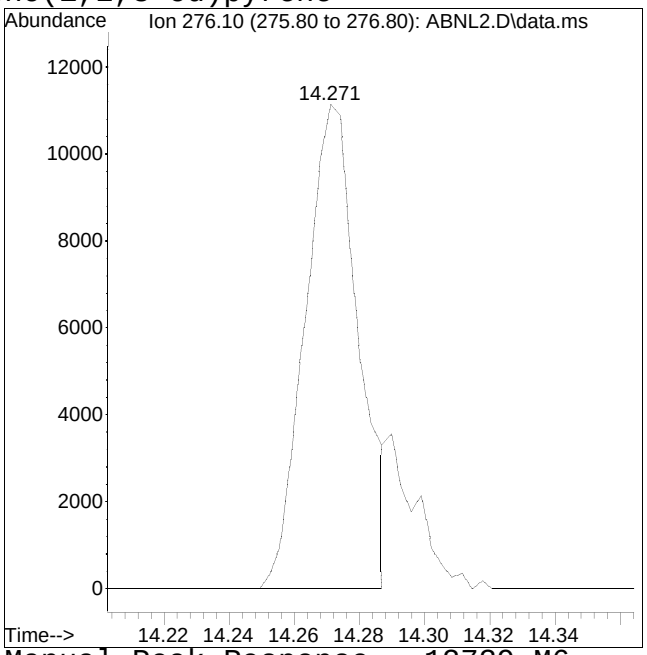
Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL2.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 8:54 pm Instrument : Dakota
Sample : IL9,32,,ABNL0.2 Lot# 10698Quant Date : 6/5/2024 5:47 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 15003



Manual Peak Response = 12739 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL1.D
Acq On : 31 May 2024 9:16 pm
Operator : Dakota:mrg
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1930266
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 17:46:08 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:46:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.826	152	28580	4.000 ug/ml	0.00
Standard Area 1 = 30198			Recovery = 94.64%		
35) IS1_Naphthalene-d8	6.060	136	100887	4.000 ug/ml	# 0.00
Standard Area 1 = 112237			Recovery = 89.89%		
63) IS1_Acenaphthene-d10	7.766	164	68103	4.000 ug/ml	0.00
Standard Area 1 = 76464			Recovery = 89.07%		
88) IS1_Phenanthrene-d10	9.199	188	152109	4.000 ug/ml	0.00
Standard Area 1 = 170352			Recovery = 89.29%		
104) IS1_Chrysene-d12	11.844	240	157999	4.000 ug/ml	0.00
Standard Area 1 = 183196			Recovery = 86.25%		
113) IS1_Perylene-d12	13.317	264	189504	4.000 ug/ml	0.00
Standard Area 1 = 212317			Recovery = 89.26%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.564	112	795	0.111 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 5.55%#		
7) Phenol-d6	4.499	99	766	0.086 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 4.30%#		
19) Nitrobenzene-d5	5.370	82	818	0.104 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 10.40%#		
46) 2-Fluorobiphenyl	7.126	172	2648	0.114 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 11.40%#		
79) 2,4,6-Tribromophenol	8.534	330	259M2	0.082 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 4.10%#		
96) 4-Terphenyl-d14	10.781	244	4426	0.116 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 11.60%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	0.000		0	N.D.	
3) Pyridine	2.286	79	664M2	0.088 ug/ml	
5) Aniline	4.509	93	1201	0.103 ug/ml#	46
6) 2-Chlorophenol	4.624	128	757	0.094 ug/ml#	30
8) Phenol	4.512	94	972	0.098 ug/ml#	34
9) Bis(2-chloroethyl)ether	4.586	93	591	0.087 ug/ml#	79
10) 1,3-Dichlorobenzene	4.773	146	1055	0.104 ug/ml#	68
11) 1,4-Dichlorobenzene	4.841	146	1197	0.119 ug/ml#	67

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL1.D
Acq On : 31 May 2024 9:16 pm
Operator : Dakota:mrg
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1930266
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 17:46:08 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:46:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
12) 1,2-Dichlorobenzene	4.990	146	1011	0.104	ug/ml#	69
13) Benzyl alcohol	4.978	79	579	0.089	ug/ml#	33
14) Bis(2-chloroisopropyl)...	5.121	45	1366	0.121	ug/ml#	43
15) 2-Methylphenol	5.102	108	754	0.113	ug/ml#	84
16) Hexachloroethane	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	5.245	70	662	0.110	ug/ml#	59
18) 3-Methylphenol/4-Methy...	5.255	108	717	0.098	ug/ml#	97
20) Nitrobenzene	5.385	77	792	0.102	ug/ml#	39
21) Isophorone	5.627	82	1599	0.107	ug/ml#	65
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	5.767	107	732	0.105	ug/ml#	69
24) Bis(2-chloroethoxy)met...	5.854	93	864	0.096	ug/ml#	50
25) 2,4-Dichlorophenol	5.938	162	909	0.113	ug/ml#	25
26) 1,2,4-Trichlorobenzene	6.013	180	961	0.100	ug/ml#	69
36) Naphthalene	6.078	128	2562	0.105	ug/ml#	45
37) Benzoic Acid	0.000		0	N.D.		
38) 4-Chloroaniline	6.150	65	472M2	0.159	ug/ml	
39) Hexachlorobutadiene	6.227	225	524	0.091	ug/ml#	18
40) p-Chloro-m-cresol	6.641	107	644	0.098	ug/ml#	78
41) 2-Methylnaphthalene	6.759	142	1816	0.104	ug/ml	97
42) 1-Methylnaphthalene	6.855	115	693	0.119	ug/ml	88
43) Hexachlorocyclopentadiene	6.933	237	577	0.095	ug/ml#	27
44) 2,4,6-Trichlorophenol	7.045	196	625	0.093	ug/ml#	76
45) 2,4,5-Trichlorophenol	7.079	196	835	0.114	ug/ml#	70
47) 2-Chloronaphthalene	7.228	162	2103	0.110	ug/ml#	89
48) 2-Nitroaniline	7.334	138	262M2	0.058	ug/ml	
49) 1,4-Dinitrobenzene	7.467	168	96M2	0.048	ug/ml	
50) 1,3-Dinitrobenzene	7.539	168	154M2	0.068	ug/ml	
51) Dimethyl phthalate	7.536	163	2401	0.106	ug/ml#	77
52) Acenaphthylene	7.626	152	3372	0.118	ug/ml#	85
53) 2,6-Dinitrotoluene	0.000		0	N.D. d		
54) 1,2-Dinitrobenzene	7.617	168	40M2	0.029	ug/ml	
64) 3-Nitroaniline	7.729	138	294M2	0.073	ug/ml	
65) Acenaphthene	7.797	154	1861	0.110	ug/ml#	79
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	7.968	168	2878	0.102	ug/ml#	77
68) 2,4-Dinitrotoluene	7.965	165	409M3	0.080	ug/ml	
69) 4-Nitrophenol	7.912	65	295M2	0.085	ug/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL1.D
Acq On : 31 May 2024 9:16 pm
Operator : Dakota:mrg
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1930266
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 17:46:08 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:46:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 2,3,5,6-Tetrachlorophenol	8.055	232	411M3	0.065	ug/ml	
71) 2,3,4,6-Tetrachlorophenol	8.102	232	502	0.083	ug/ml#	18
72) Diethyl phthalate	8.220	149	2421	0.104	ug/ml#	61
73) Fluorene	8.297	166	2259	0.100	ug/ml#	83
74) 4-Chlorophenyl phenyl ...	8.313	204	1256	0.105	ug/ml#	68
75) 4-Nitroaniline	8.319	138	363M2	0.085	ug/ml	
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	8.428	169	1974	0.102	ug/ml#	88
78) Azobenzene	8.462	77	2180	0.112	ug/ml#	56
80) 4-Bromophenyl phenyl e...	8.785	248	794	0.107	ug/ml#	43
81) Hexachlorobenzene	8.838	284	906	0.106	ug/ml#	33
82) Pentachlorophenol	0.000		0	N.D.		
89) Phenanthrene	9.220	178	4071M3	0.107	ug/ml	
90) Anthracene	9.273	178	3859	0.104	ug/ml	96
91) Carbazole	9.435	167	4257	0.118	ug/ml	97
92) Di-n-butylphthalate	9.817	149	4036	0.103	ug/ml#	79
93) Fluoranthene	10.377	202	6033	0.124	ug/ml#	90
94) Benzidine	10.526	184	2162	0.078	ug/ml#	68
95) Pyrene	10.594	202	6228	0.122	ug/ml	95
97) Butyl benzyl phthalate	11.306	149	2051	0.114	ug/ml#	80
105) Benzo(a)anthracene	11.837	228	6979	0.128	ug/ml	96
106) 3,3'-Dichlorobenzidine	11.834	252	1813	0.097	ug/ml#	78
107) Chrysene	11.872	228	6864	0.138	ug/ml	95
108) Bis(2-ethylhexyl)phtha...	11.940	149	2833	0.108	ug/ml#	83
109) Di-n-octylphthalate	12.618	149	4161	0.093	ug/ml#	85
110) Benzo(b)fluoranthene	12.941	252	6830	0.122	ug/ml#	89
111) Benzo(k)fluoranthene	12.972	252	6408	0.120	ug/ml#	92
112) Benzo(a)pyrene	13.261	252	5535	0.111	ug/ml#	91
114) Indeno(1,2,3-cd)pyrene	14.271	276	5712M6	0.102	ug/mL	
115) Dibenzo(a,h)anthracene	14.290	278	5301	0.103	ug/ml#	83
116) Benzo(ghi)perylene	14.489	276	5296	0.103	ug/ml#	86

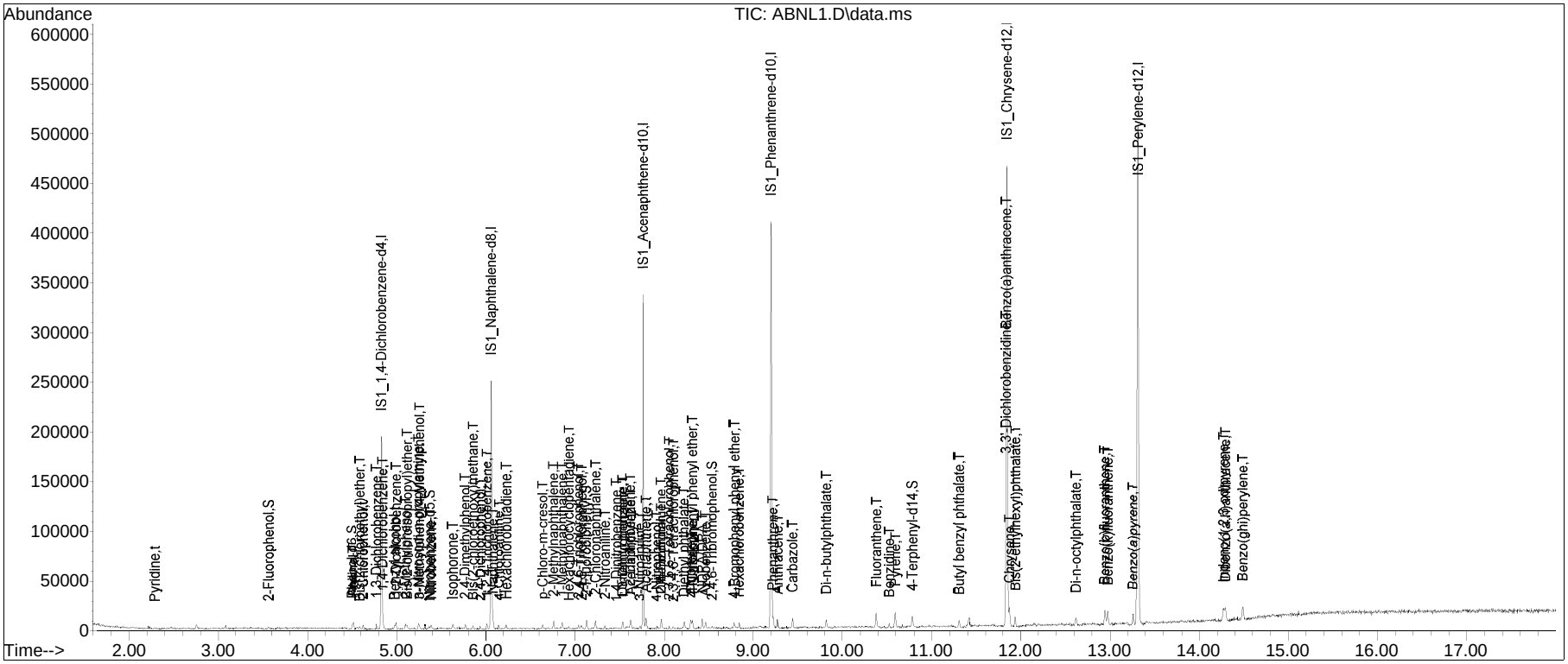
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNL1.D
Acq On : 31 May 2024 9:16 pm
Operator : Dakota:mrg
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1930266
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 17:46:08 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:46:41 2024
Response via : Initial Calibration

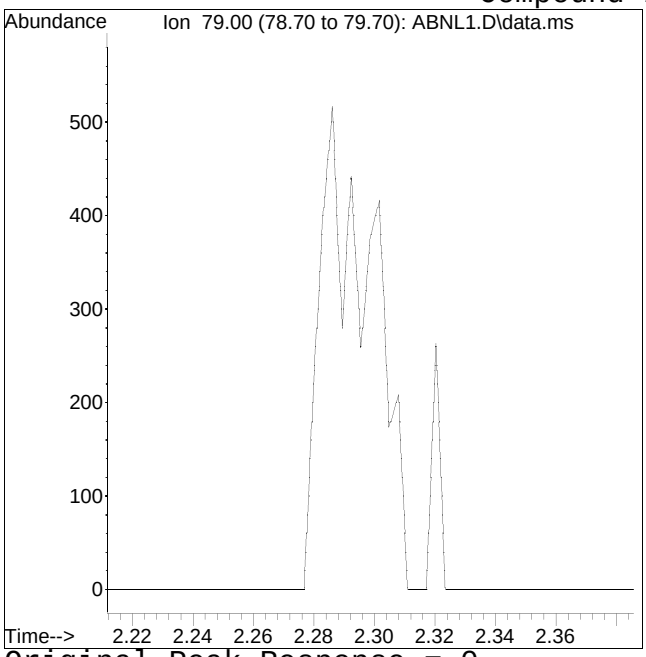
Sub List : ABNical - ABN ical sublistcal\AP9L6.D•



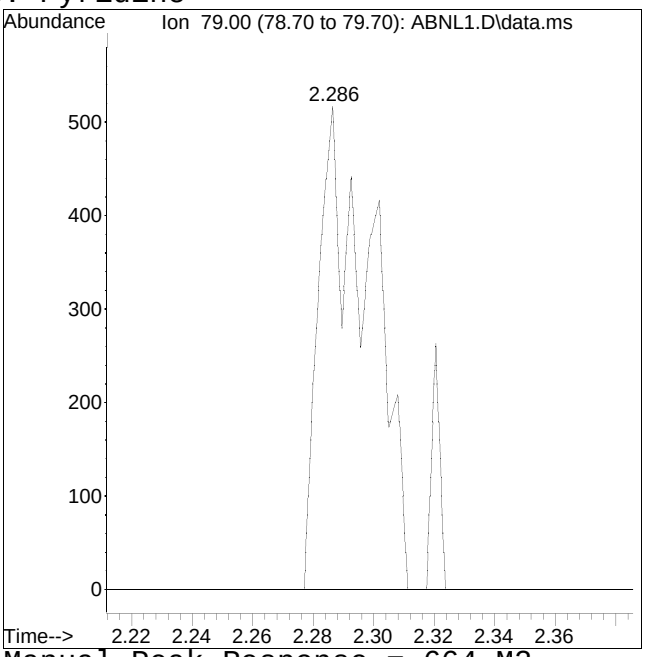
Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL1.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 9:16 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1069Quant Date : 6/5/2024 5:46 pm

Compound #3: Pyridine



Original Peak Response = 0



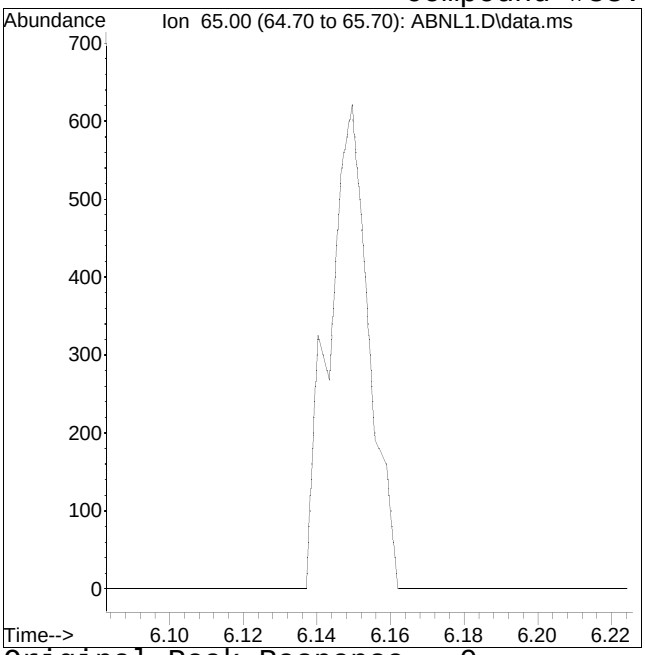
Manual Peak Response = 664 M2

M2 = Peak not found by automatic integration algorithm.

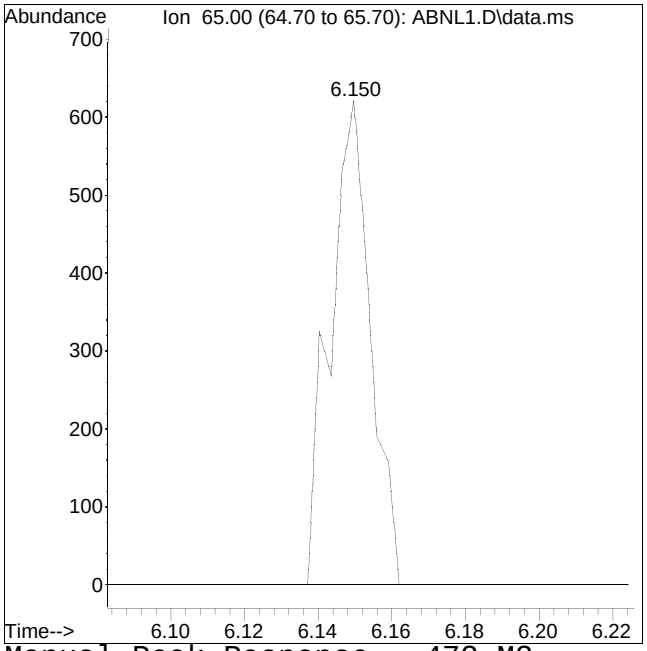
Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL1.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 9:16 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1069Quant Date : 6/5/2024 5:46 pm

Compound #38: 4-Chloroaniline



Original Peak Response = 0



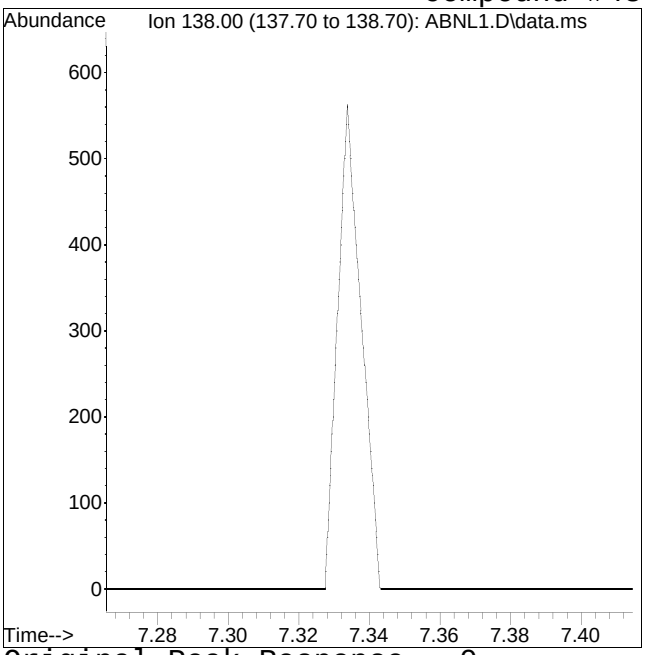
Manual Peak Response = 472 M2

M2 = Peak not found by automatic integration algorithm.

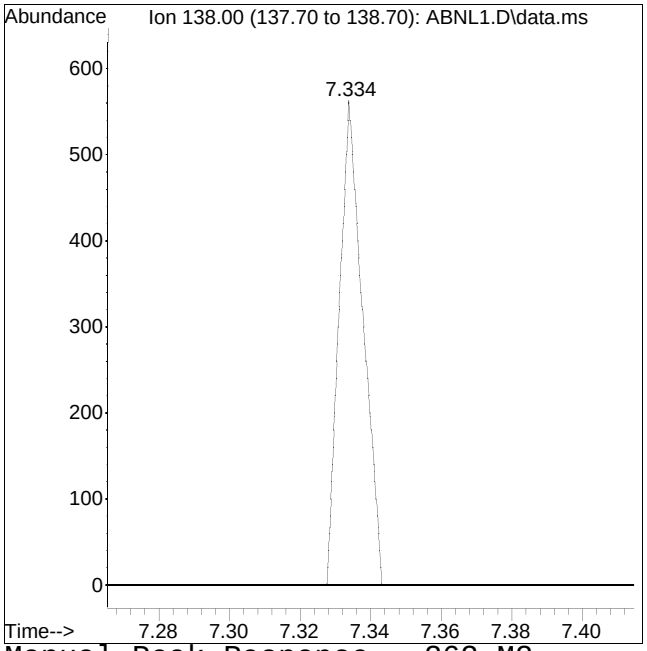
Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL1.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 9:16 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1069Quant Date : 6/5/2024 5:46 pm

Compound #48: 2-Nitroaniline



Original Peak Response = 0



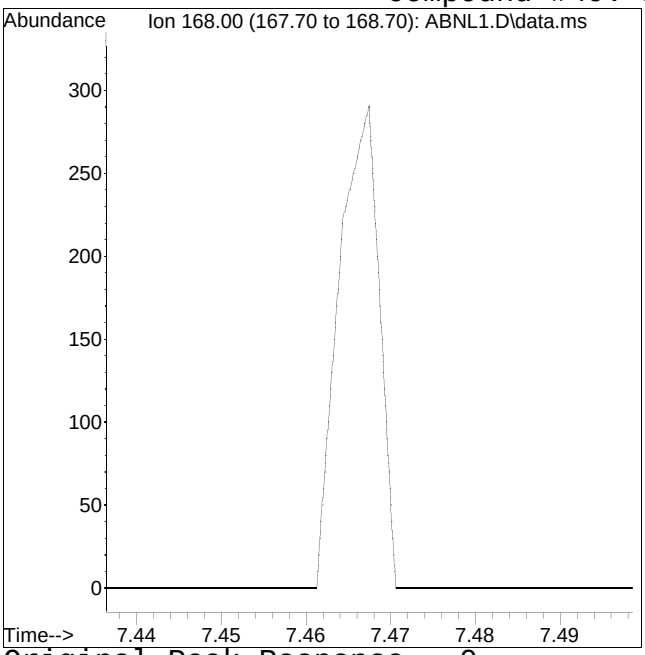
Manual Peak Response = 262 M2

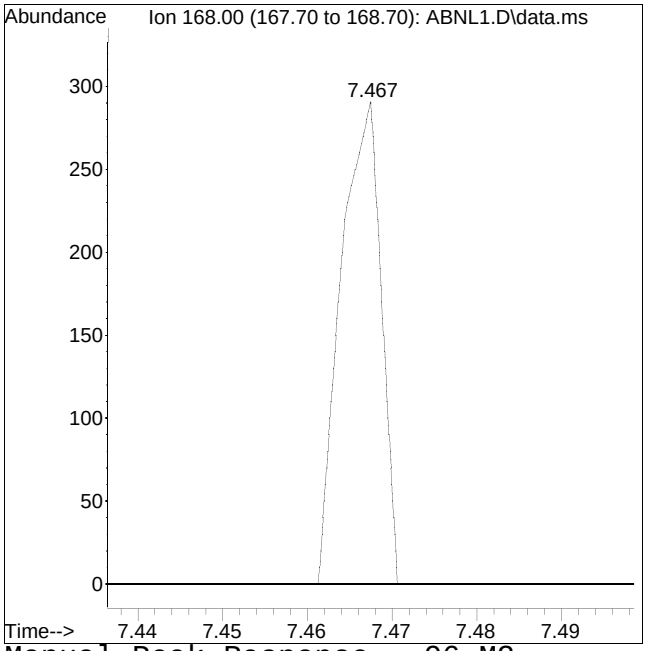
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL1.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 9:16 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1069Quant Date : 6/5/2024 5:46 pm

Compound #49: 1,4-Dinitrobenzene



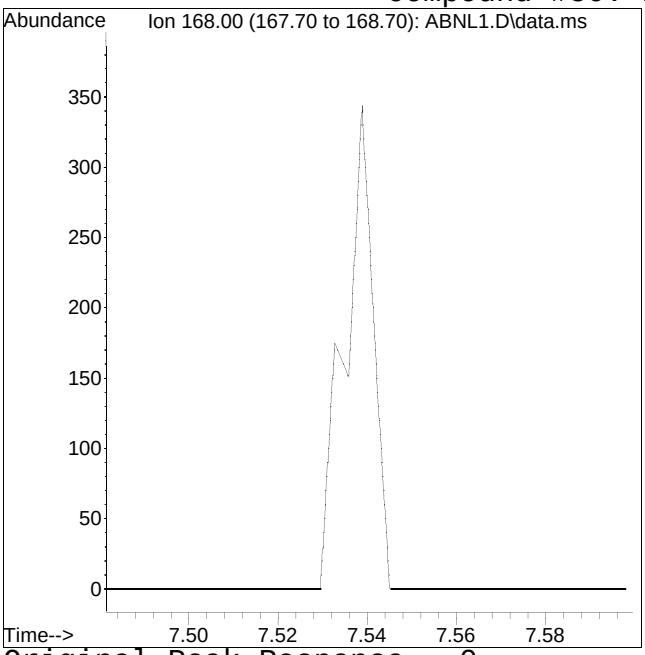


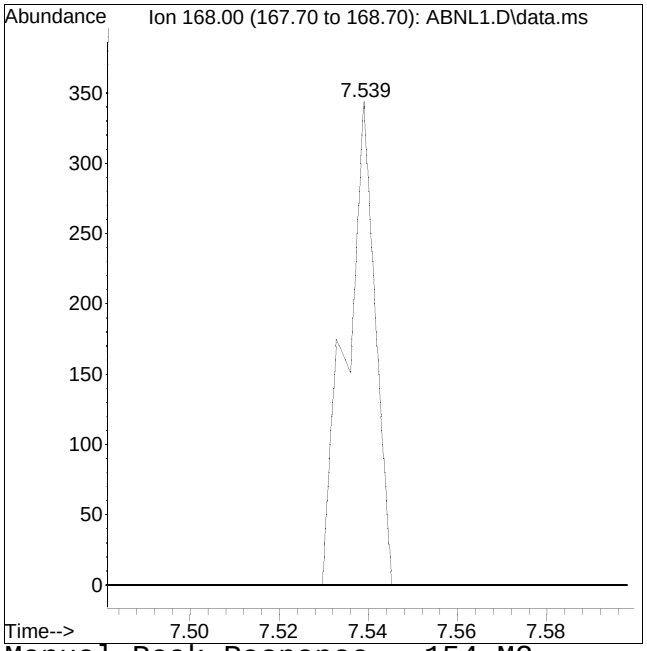
Original Peak Response = 0 Manual Peak Response = 96 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL1.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 9:16 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1069Quant Date : 6/5/2024 5:46 pm

Compound #50: 1,3-Dinitrobenzene



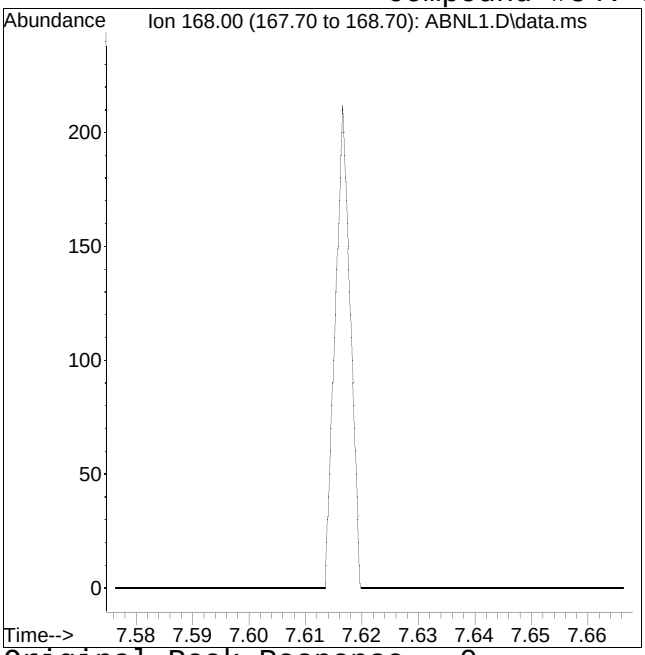


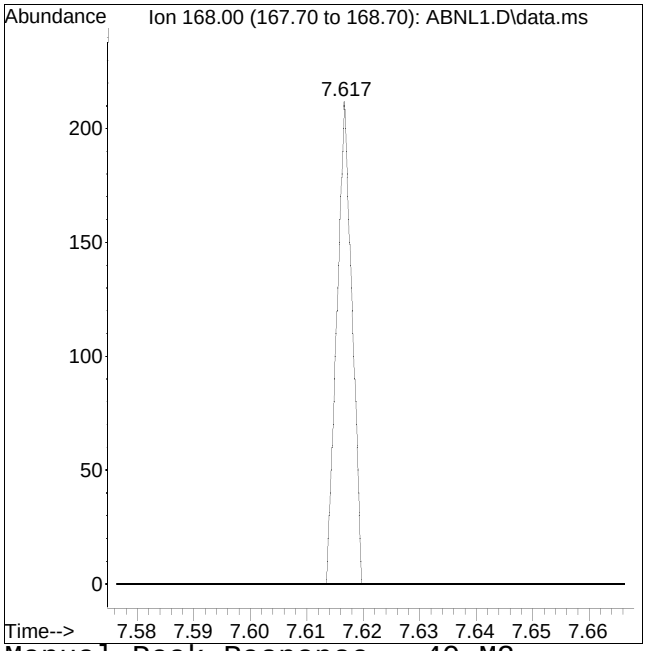
Original Peak Response = 0 Manual Peak Response = 154 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL1.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 9:16 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1069Quant Date : 6/5/2024 5:46 pm

Compound #54: 1,2-Dinitrobenzene



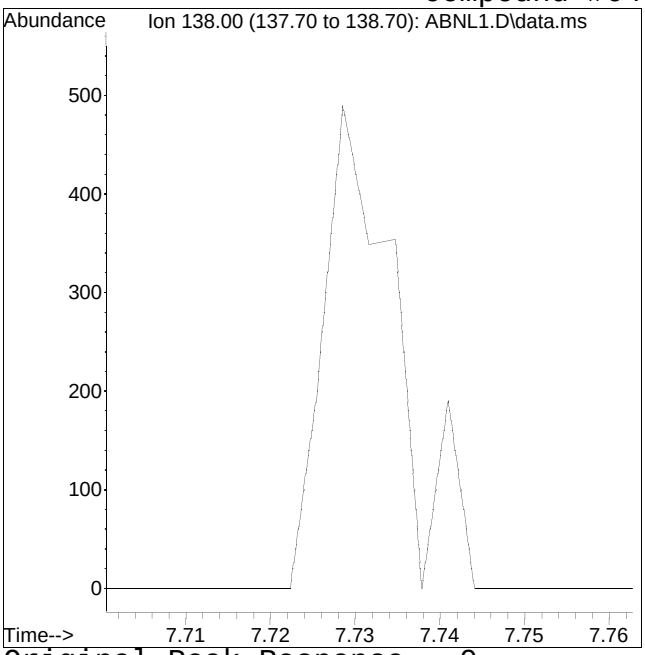


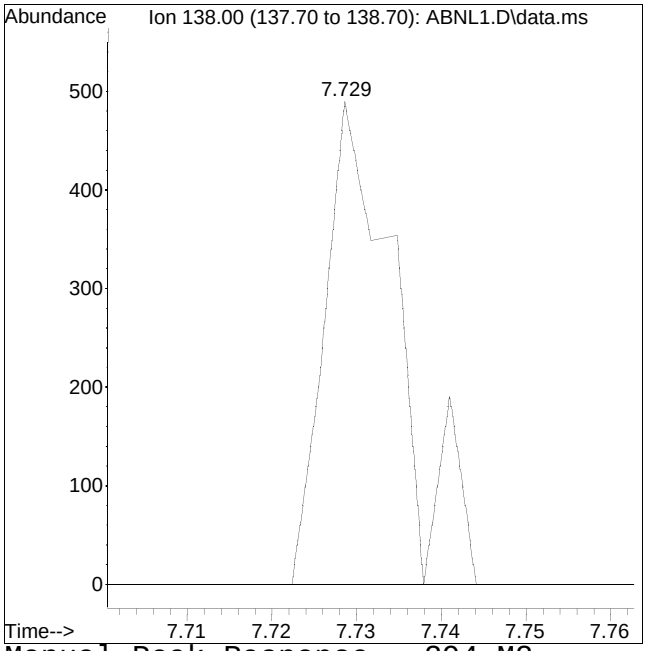
Original Peak Response = 0 Manual Peak Response = 40 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL1.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 9:16 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1069Quant Date : 6/5/2024 5:46 pm

Compound #64: 3-Nitroaniline



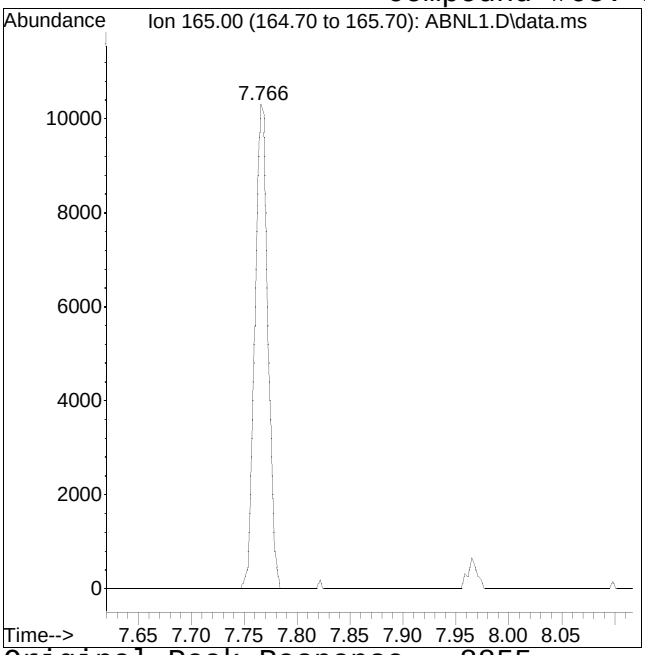


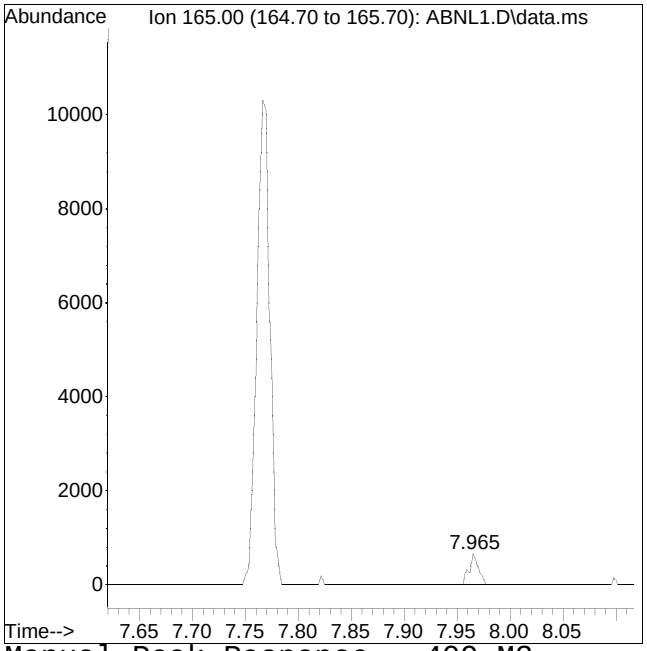
Original Peak Response = 0 Manual Peak Response = 294 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL1.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 9:16 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1069Quant Date : 6/5/2024 5:46 pm

Compound #68: 2,4-Dinitrotoluene



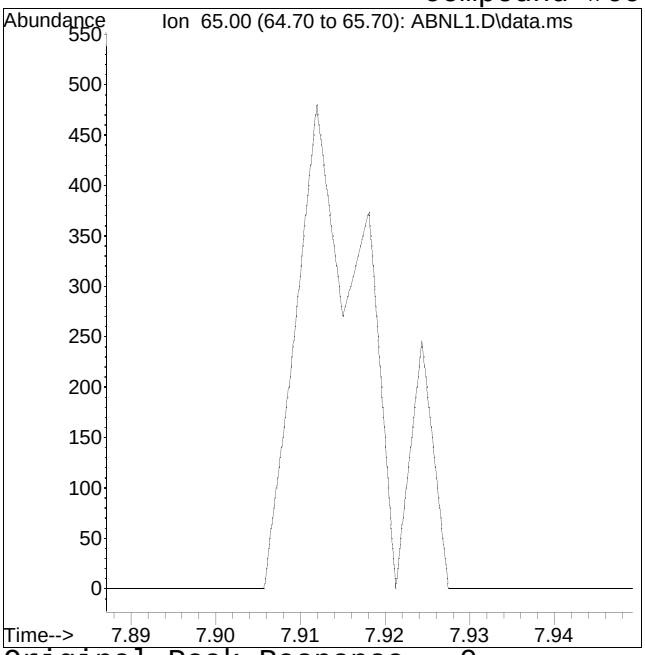


Original Peak Response = 8855 Manual Peak Response = 409 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

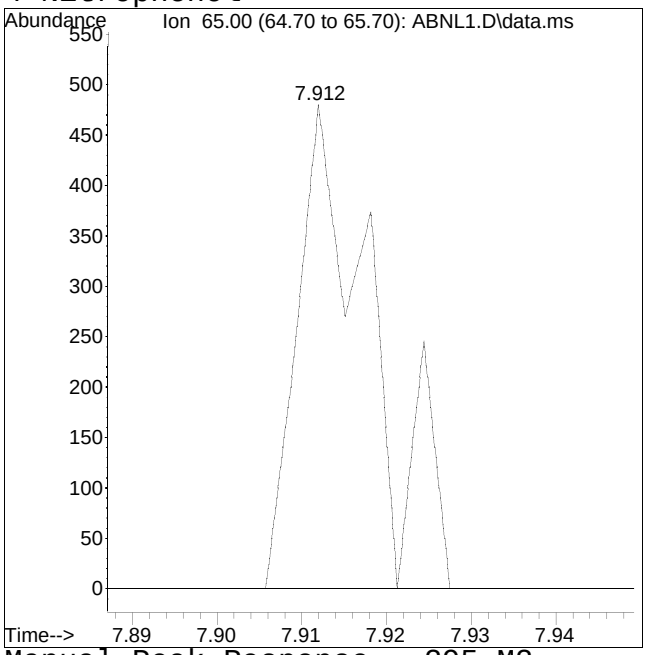
Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL1.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 9:16 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1069Quant Date : 6/5/2024 5:46 pm

Compound #69: 4-Nitrophenol



Original Peak Response = 0



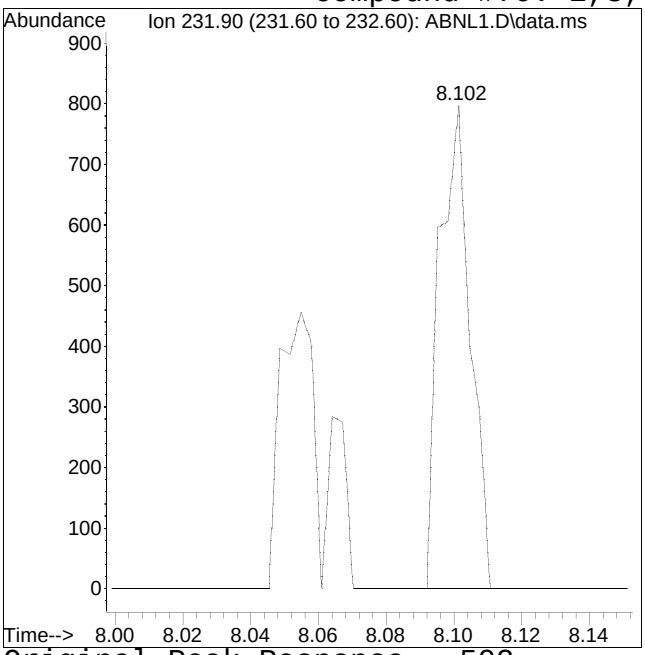
Manual Peak Response = 295 M2

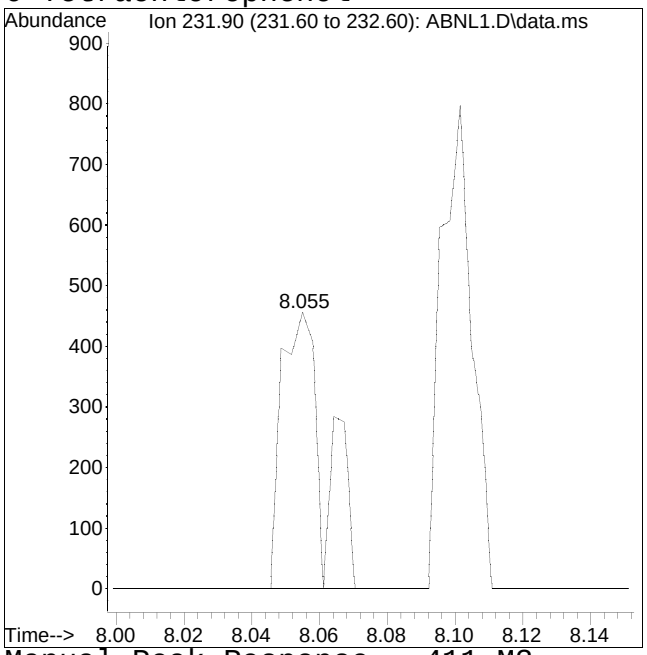
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL1.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 9:16 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1069Quant Date : 6/5/2024 5:46 pm

Compound #70: 2,3,5,6-Tetrachlorophenol





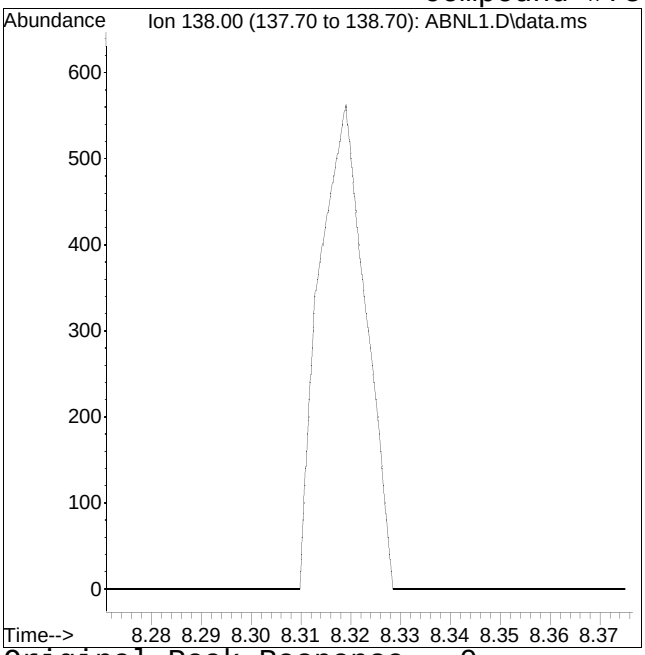
Original Peak Response = 502 Manual Peak Response = 411 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

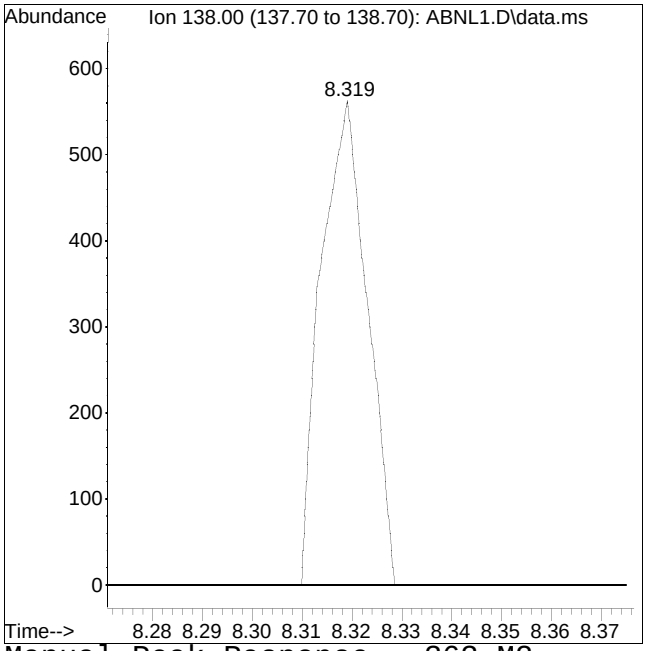
Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL1.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 9:16 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1069Quant Date : 6/5/2024 5:46 pm

Compound #75: 4-Nitroaniline



Original Peak Response = 0



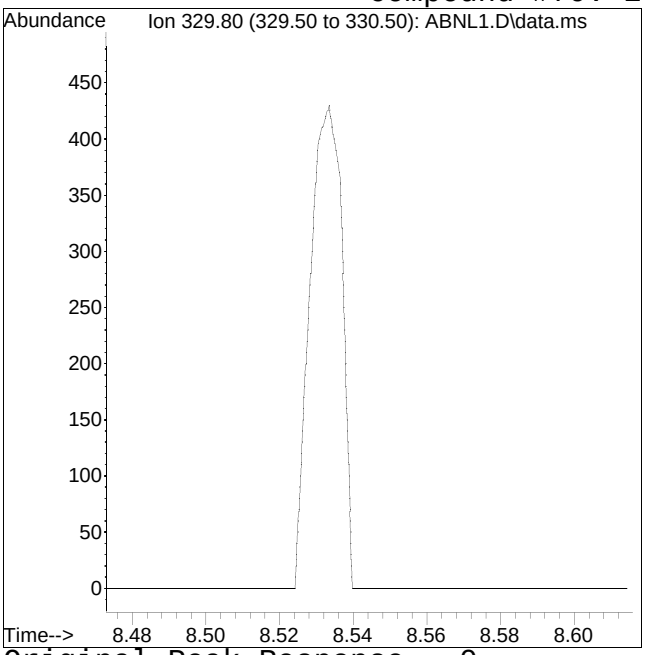
Manual Peak Response = 363 M2

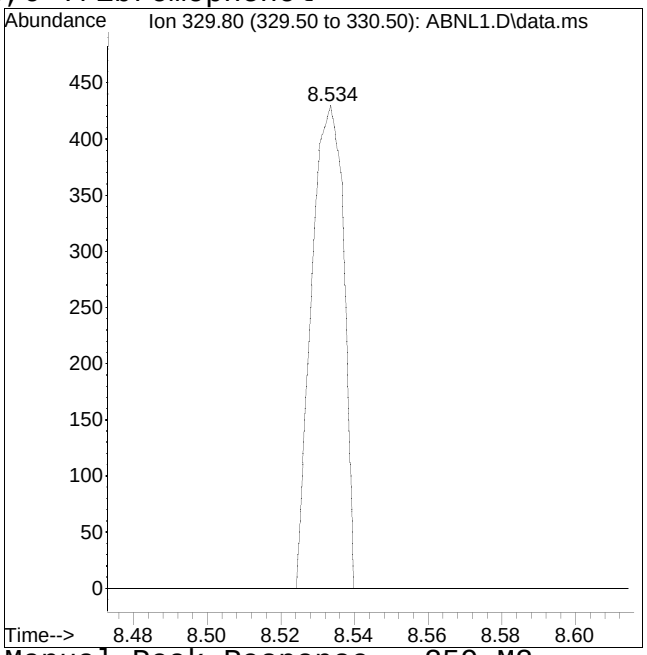
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL1.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 9:16 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1069Quant Date : 6/5/2024 5:46 pm

Compound #79: 2,4,6-Tribromophenol



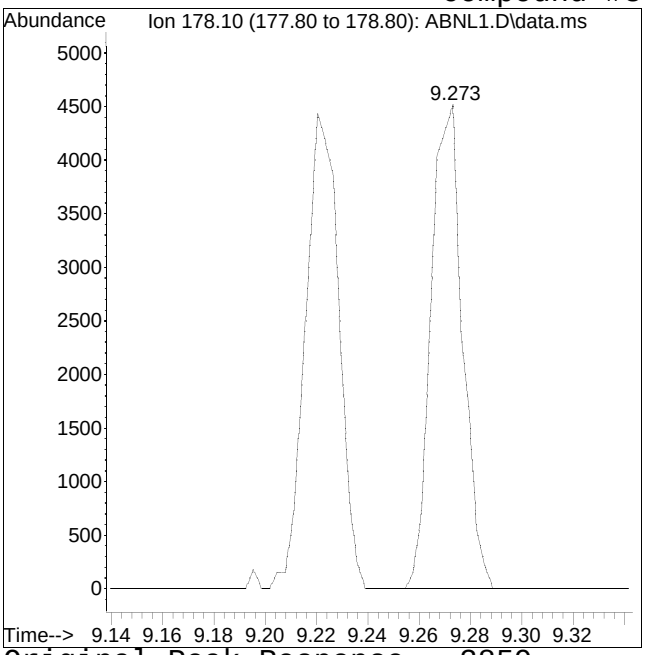


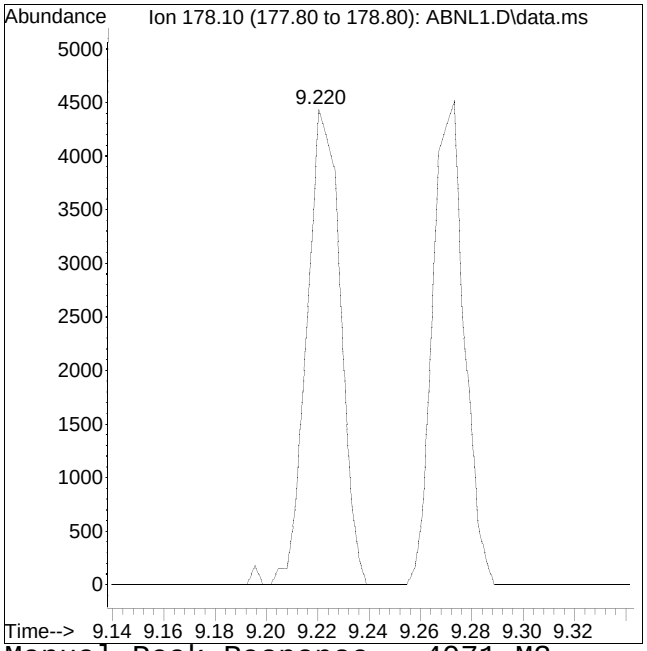
Original Peak Response = 0 Manual Peak Response = 259 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL1.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 9:16 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1069Quant Date : 6/5/2024 5:46 pm

Compound #89: Phenanthrene





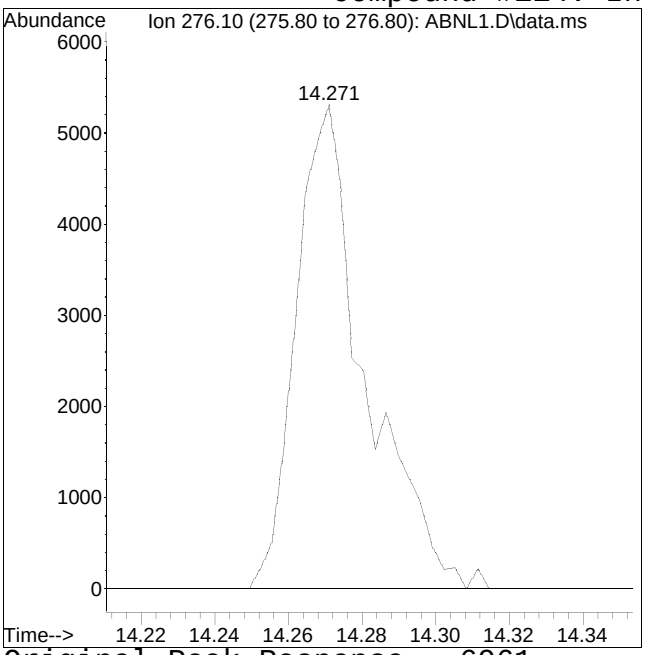
Original Peak Response = 3859 Manual Peak Response = 4071 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

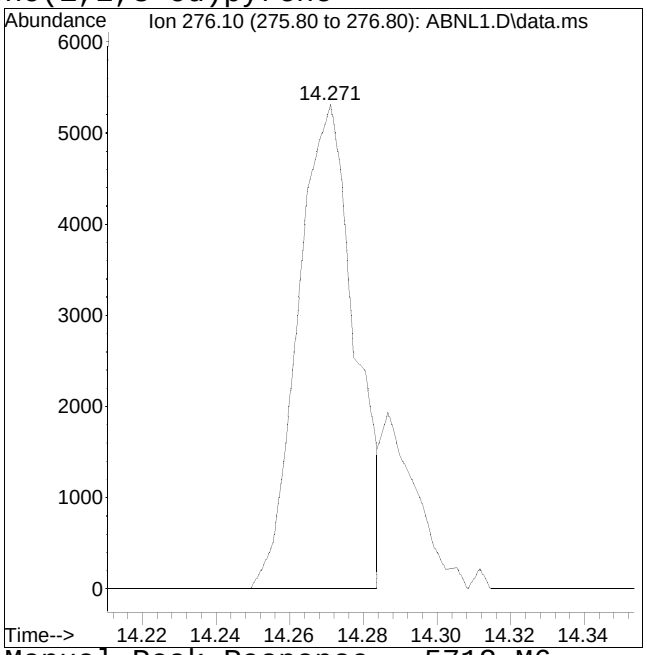
Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNL1.D Operator : Dakota:mrg
Date Inj'd : 5/31/2024 9:16 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1069Quant Date : 6/5/2024 5:46 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 6961



Manual Peak Response = 5712 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : AP9L9.D
Acq On : 31 May 2024 9:39 pm
Operator : Dakota:mrg
Sample : IL2,32,,AP9L50 Lot# 10700
Misc : WG1930266
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 18:14:31 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:15:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	4.825	152	31388	4.000	ug/ml		0.00
Standard Area 3 = 30508			Recovery = 102.88%				
55) IS2_Naphthalene-d8	6.062	136	108388	4.000	ug/ml	#	0.00
Standard Area 3 = 104918			Recovery = 103.31%				
83) IS2_Acenaphthene-d10	7.769	164	72558	4.000	ug/ml		0.00
Standard Area 3 = 69949			Recovery = 103.73%				
98) IS2_Phenanthrene-d10	9.202	188	160463	4.000	ug/ml		0.00
Standard Area 3 = 160290			Recovery = 100.11%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	4.393	105	372132	49.439	ug/ml		98
29) Acetophenone	5.226	105	641947	51.345	ug/ml	#	81
30) m-Toluidine	5.307	106	601676	52.642	ug/ml		94
31) 2-Chloroaniline	5.668	127	575822	50.933	ug/ml	#	93
56) a-Terpineol	6.118	59	352503	52.555	ug/ml	#	76
57) 3-Chloroaniline	6.131	65	188716	51.058	ug/ml		94
58) 2,6-Dichlorophenol	6.159	162	447013	51.753	ug/ml	#	83
59) 1-chloro-2-nitrobenzene	6.414	111	178786	54.731	ug/ml	#	1
60) Caprolactam	6.466	55	194135	55.515	ug/ml	#	71
61) 1,2,4,5-Tetrachloroben...	6.930	216	587198	48.261	ug/ml		98
62) Biphenyl	7.222	154	1191151	47.233	ug/ml		96
84) Dichloran	8.900	206	182926	52.056	ug/ml	#	64
85) Pentachloronitrobenzene	9.049	237	174391	59.900	ug/ml	#	81
99) Diphenamid	10.103	167	1019943	53.985	ug/ml	#	73

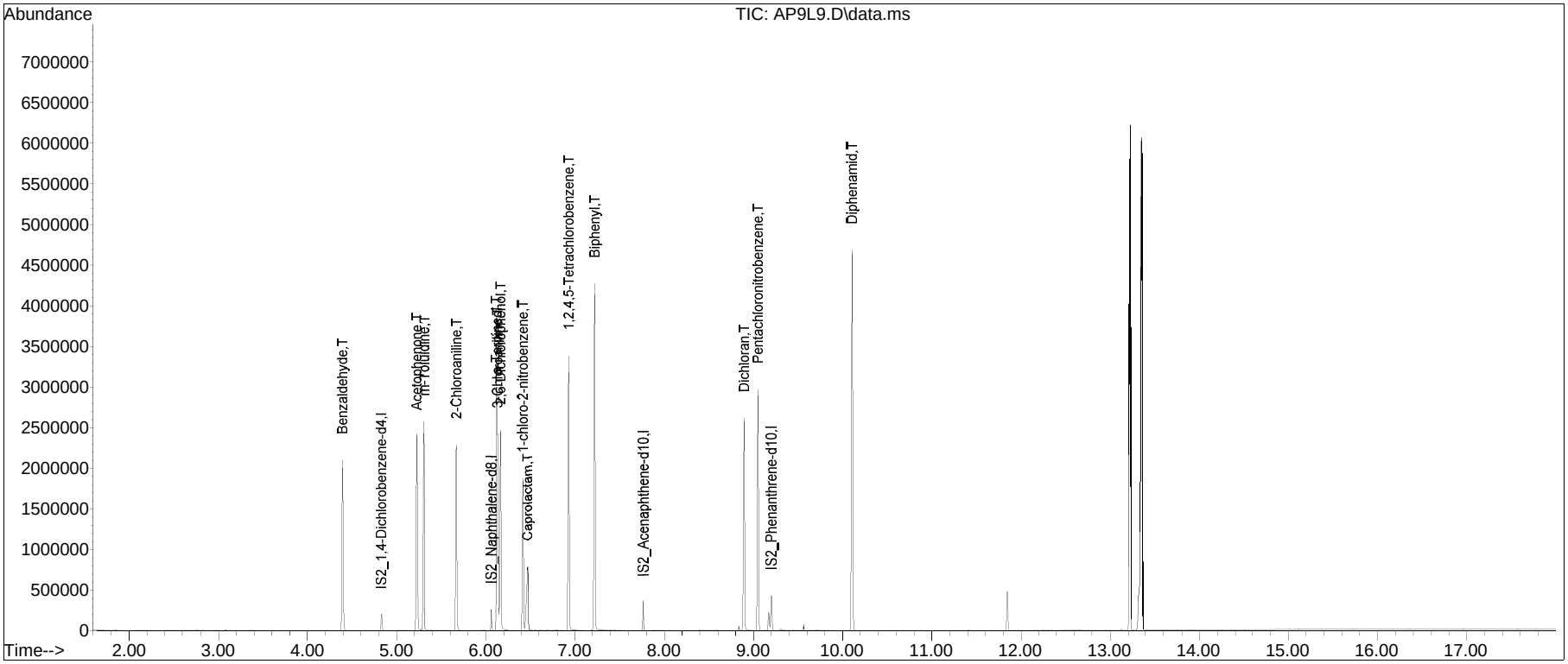
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : AP9L9.D
Acq On : 31 May 2024 9:39 pm
Operator : Dakota:mrg
Sample : IL2,32,,AP9L50 Lot# 10700
Misc : WG1930266
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 18:14:31 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:15:01 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240531ical\	QMethod	: FS240531_14D_Dakota.m
Data File	: AP9L9.D	Operator	: Dakota:mrg
Date Inj'd	: 5/31/2024 9:39 pm	Instrument	: Dakota
Sample	: IL2,32,,AP9L50 Lot# 10700	Quant Date	: 6/5/2024 6:15 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : AP9L8.D
Acq On : 31 May 2024 10:01 pm
Operator : Dakota:mrg
Sample : IL3,32,,AP9L25 Lot# 10701
Misc : WG1930266
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 18:14:12 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:14:42 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.826	152	29371	4.000	ug/ml	0.00
Standard Area 3 = 30508			Recovery = 96.27%			
55) IS2_Naphthalene-d8	6.063	136	104575	4.000	ug/ml	0.00
Standard Area 3 = 104918			Recovery = 99.67%			
83) IS2_Acenaphthene-d10	7.766	164	69495	4.000	ug/ml	0.00
Standard Area 3 = 69949			Recovery = 99.35%			
98) IS2_Phenanthrene-d10	9.199	188	155571	4.000	ug/ml	0.00
Standard Area 3 = 160290			Recovery = 97.06%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.394	105	173162	24.585	ug/ml	97
29) Acetophenone	5.223	105	299154	25.570	ug/ml#	80
30) m-Toluidine	5.304	106	286560	26.794	ug/ml	93
31) 2-Chloroaniline	5.665	127	271810	25.693	ug/ml#	92
56) a-Terpineol	6.115	59	166016	25.654	ug/ml#	76
57) 3-Chloroaniline	6.128	65	88275	24.754	ug/ml	97
58) 2,6-Dichlorophenol	6.159	162	212246	25.469	ug/ml#	83
59) 1-chloro-2-nitrobenzene	6.411	111	82356	26.131	ug/ml#	1
60) Caprolactam	6.454	55	91324	27.068	ug/ml#	74
61) 1,2,4,5-Tetrachloroben...	6.930	216	281744	24.000	ug/ml#	98
62) Biphenyl	7.222	154	582141	23.925	ug/ml	96
84) Dichloran	8.897	206	80281	24.163	ug/ml#	64
85) Pentachloronitrobenzene	9.046	237	80254	28.781	ug/ml#	80
99) Diphenamid	10.100	167	480799	26.249	ug/ml#	74

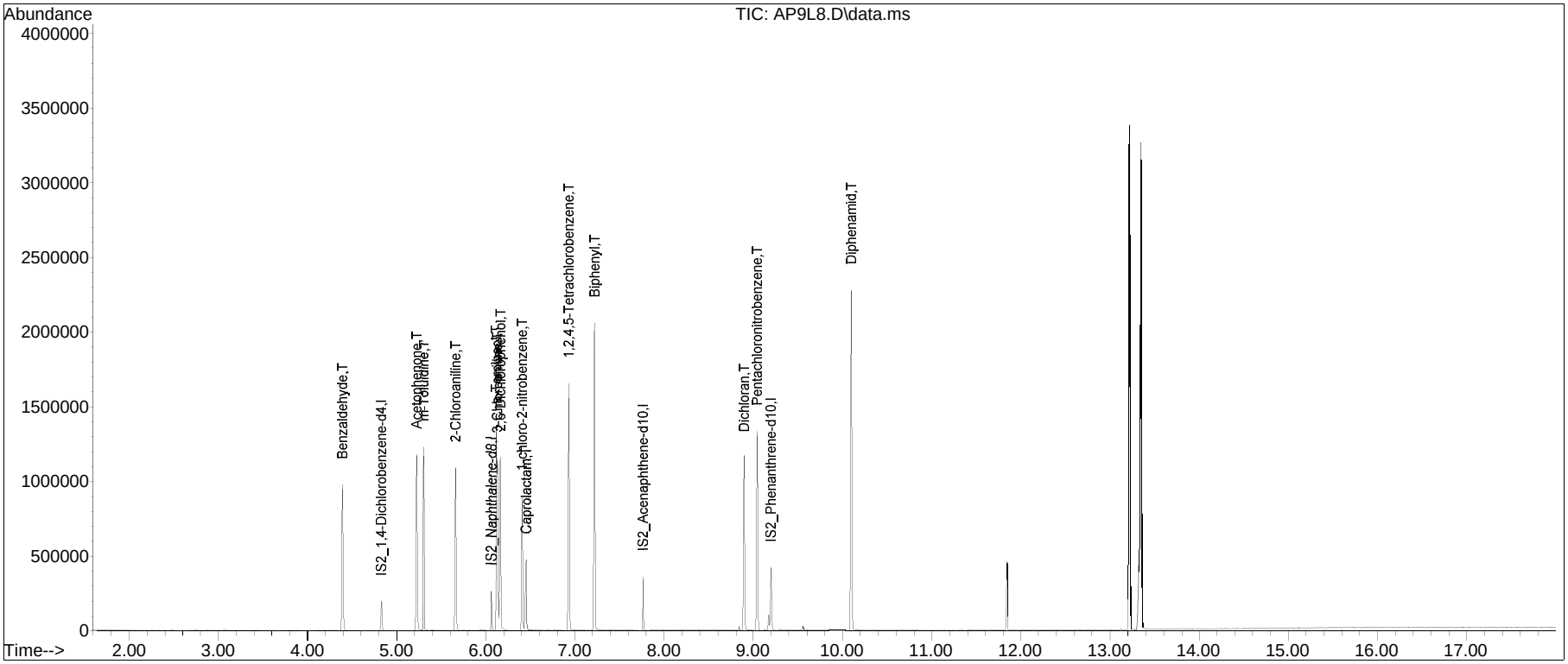
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : AP9L8.D
Acq On : 31 May 2024 10:01 pm
Operator : Dakota:mrg
Sample : IL3,32,,AP9L25 Lot# 10701
Misc : WG1930266
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 18:14:12 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:14:42 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240531ical\	QMethod	: FS240531_14D_Dakota.m
Data File	: AP9L8.D	Operator	: Dakota:mrg
Date Inj'd	: 5/31/2024 10:01 pm	Instrument	: Dakota
Sample	: IL3,32,,AP9L25 Lot# 10701	Quant Date	: 6/5/2024 6:14 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : AP9L7.D
Acq On : 31 May 2024 10:24 pm
Operator : Dakota:mrg
Sample : IL4,32,,AP9L10 Lot# 10702
Misc : WG1930266
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 05 18:13:51 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:14:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.826	152	29148	4.000	ug/ml	0.00
Standard Area 3 = 30508			Recovery = 95.54%			
55) IS2_Naphthalene-d8	6.063	136	105687	4.000	ug/ml	0.00
Standard Area 3 = 104918			Recovery = 100.73%			
83) IS2_Acenaphthene-d10	7.766	164	71230	4.000	ug/ml	0.00
Standard Area 3 = 69949			Recovery = 101.83%			
98) IS2_Phenanthrene-d10	9.199	188	165106	4.000	ug/ml	0.00
Standard Area 3 = 160290			Recovery = 103.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.394	105	70060	10.023	ug/ml	98
29) Acetophenone	5.223	105	120667	10.393	ug/ml#	80
30) m-Toluidine	5.304	106	118073	11.124	ug/ml	91
31) 2-Chloroaniline	5.665	127	112407	10.707	ug/ml#	92
56) a-Terpineol	6.115	59	66702	10.199	ug/ml#	75
57) 3-Chloroaniline	6.128	65	36354	10.087	ug/ml	99
58) 2,6-Dichlorophenol	6.156	162	87740	10.418	ug/ml#	84
59) 1-chloro-2-nitrobenzene	6.411	111	33814	10.616	ug/ml#	1
60) Caprolactam	6.445	55	36511	10.708	ug/ml#	71
61) 1,2,4,5-Tetrachloroben...	6.930	216	117716	9.922	ug/ml#	97
62) Biphenyl	7.222	154	248285	10.097	ug/ml	98
84) Dichloran	8.894	206	31044	9.473	ug/ml#	66
85) Pentachloronitrobenzene	9.046	237	31453	11.005	ug/ml#	82
99) Diphenamid	10.100	167	201388	10.360	ug/ml#	74

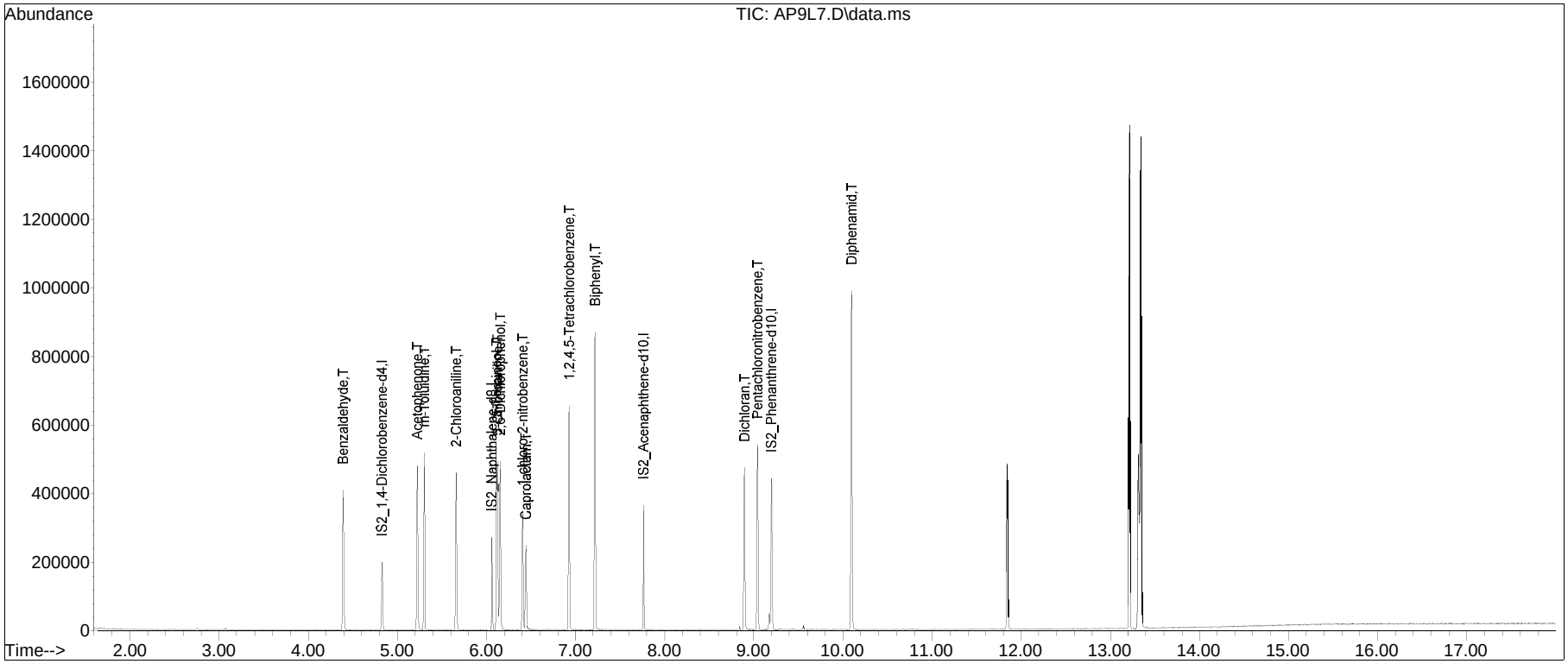
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : AP9L7.D
Acq On : 31 May 2024 10:24 pm
Operator : Dakota:mrg
Sample : IL4,32,,AP9L10 Lot# 10702
Misc : WG1930266
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 05 18:13:51 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:14:22 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240531ical\	QMethod	: FS240531_14D_Dakota.m
Data File	: AP9L7.D	Operator	: Dakota:mrg
Date Inj'd	: 5/31/2024 10:24 pm	Instrument	: Dakota
Sample	: IL4,32,,AP9L10 Lot# 10702	Quant Date	: 6/5/2024 6:14 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : AP9L6.D
Acq On : 31 May 2024 10:46 pm
Operator : Dakota:mrg
Sample : IL5,32,,AP9L5 Lot# 10703
Misc : WG1930266
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 05 18:13:27 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:13:59 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.829	152	30508	4.000	ug/ml	0.00
Standard Area 3 = 30508			Recovery = 100.00%			
55) IS2_Naphthalene-d8	6.062	136	104918	4.000	ug/ml	0.00
Standard Area 3 = 104918			Recovery = 100.00%			
83) IS2_Acenaphthene-d10	7.766	164	69949	4.000	ug/ml	0.00
Standard Area 3 = 69949			Recovery = 100.00%			
98) IS2_Phenanthrene-d10	9.199	188	160290	4.000	ug/ml	0.00
Standard Area 3 = 160290			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.396	105	32182	4.399	ug/ml	100
29) Acetophenone	5.223	105	58331	4.800	ug/ml#	79
30) m-Toluidine	5.304	106	54614	4.916	ug/ml	91
31) 2-Chloroaniline	5.668	127	52962	4.820	ug/ml#	92
56) a-Terpineol	6.112	59	30506	4.699	ug/ml#	79
57) 3-Chloroaniline	6.128	65	16635	4.649	ug/ml	98
58) 2,6-Dichlorophenol	6.156	162	40666	4.864	ug/ml#	84
59) 1-chloro-2-nitrobenzene	6.411	111	15024	4.751	ug/ml#	1
60) Caprolactam	6.442	55	16214	4.790	ug/ml#	73
61) 1,2,4,5-Tetrachloroben...	6.930	216	55648	4.725	ug/ml	98
62) Biphenyl	7.219	154	114255	4.680	ug/ml	96
84) Dichloran	8.894	206	12138	4.117	ug/ml#	71
85) Pentachloronitrobenzene	9.046	237	14153	5.043	ug/ml#	78
99) Diphenamid	10.100	167	91255	4.835	ug/ml#	73

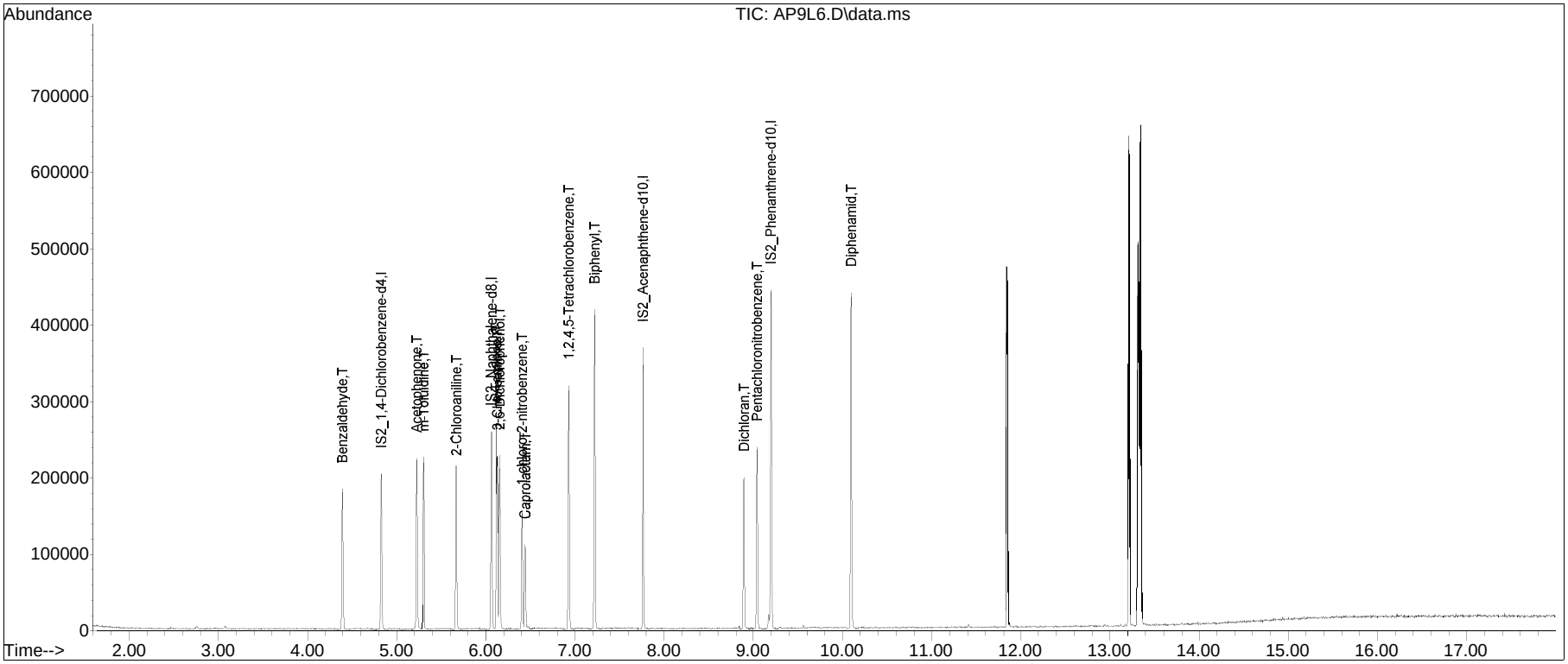
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : AP9L6.D
Acq On : 31 May 2024 10:46 pm
Operator : Dakota:mrg
Sample : IL5,32,,AP9L5 Lot# 10703
Misc : WG1930266
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 05 18:13:27 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:13:59 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240531ical\	QMethod	: FS240531_14D_Dakota.m
Data File	: AP9L6.D	Operator	: Dakota:mrg
Date Inj'd	: 5/31/2024 10:46 pm	Instrument	: Dakota
Sample	: IL5,32,,AP9L5 Lot# 10703	Quant Date	: 6/5/2024 6:13 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : AP9L5.D
Acq On : 31 May 2024 11:08 pm
Operator : Dakota:mrg
Sample : IL6,32,,AP9L2.5 Lot# 10704
Misc : WG1930266
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 01 16:43:26 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 01 16:33:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.826	152	28847	4.000	ug/ml	0.00
Standard Area 3 = 30508			Recovery = 94.56%			
54) IS2_Naphthalene-d8	6.063	136	104781	4.000	ug/ml	0.00
Standard Area 3 = 104918			Recovery = 99.87%			
82) IS2_Acenaphthene-d10	7.766	164	69412	4.000	ug/ml	0.00
Standard Area 3 = 69949			Recovery = 99.23%			
97) IS2_Phenanthrene-d10	9.199	188	164926	4.000	ug/ml	0.00
Standard Area 3 = 160290			Recovery = 102.89%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.397	105	16886	2.441	ug/ml	99
29) Acetophenone	5.223	105	28800	2.506	ug/ml#	79
30) m-Toluidine	5.304	106	25964	2.472	ug/ml	95
31) 2-Chloroaniline	5.665	127	25595	2.463	ug/ml#	93
55) a-Terpineol	6.112	59	15924	2.456	ug/ml#	76
56) 3-Chloroaniline	6.128	65	9171	2.567	ug/ml	89
57) 2,6-Dichlorophenol	6.156	162	20028	2.399	ug/ml#	86
58) 1-chloro-2-nitrobenzene	6.411	111	7198	2.279	ug/ml#	1
59) Caprolactam	6.439	55	7776	2.300	ug/ml#	77
60) 1,2,4,5-Tetrachloroben...	6.927	216	28117	2.390	ug/ml#	96
61) Biphenyl	7.219	154	58217	2.388	ug/ml	97
83) Dichloran	8.891	206	6377	2.449	ug/ml#	67
84) Pentachloronitrobenzene	9.046	237	6581	2.363	ug/ml#	83
98) Diphenamid	10.100	167	45832	2.360	ug/ml#	74

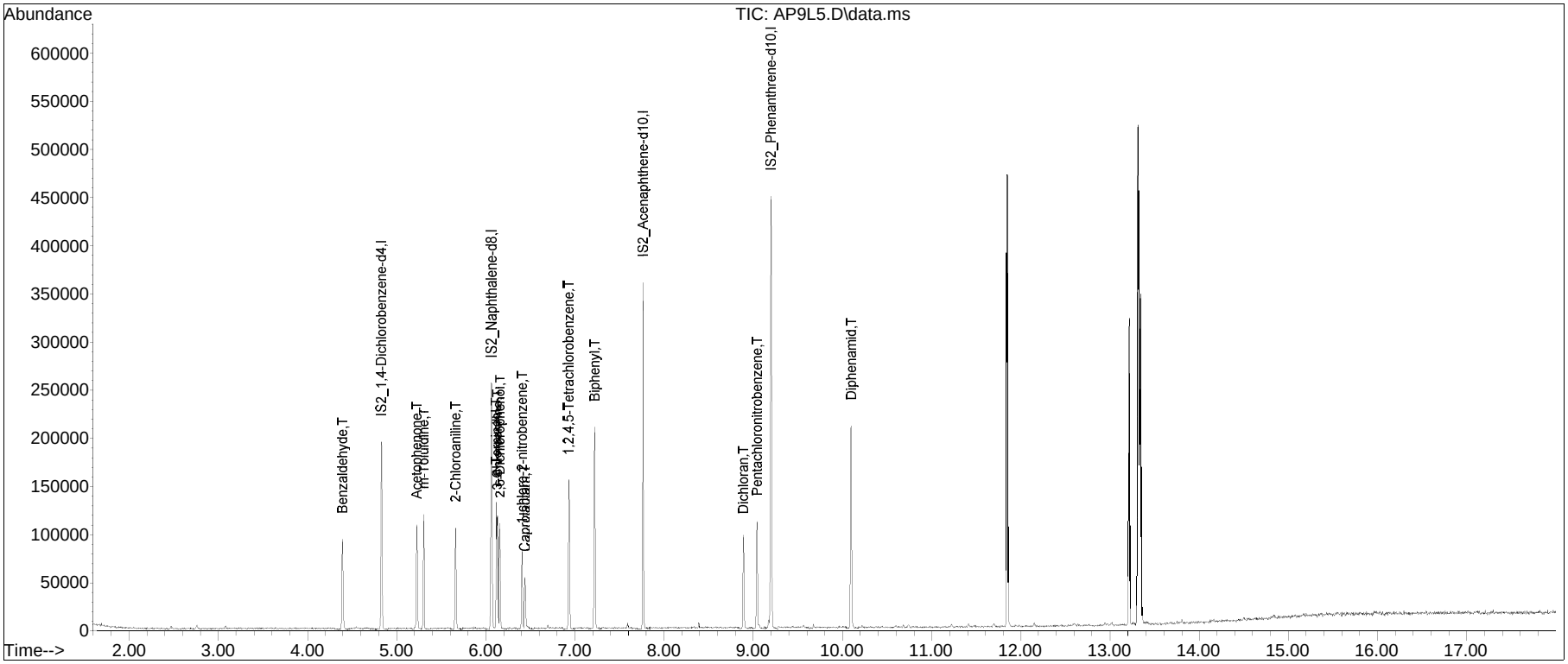
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : AP9L5.D
Acq On : 31 May 2024 11:08 pm
Operator : Dakota:mrg
Sample : IL6,32,,AP9L2.5 Lot# 10704
Misc : WG1930266
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 01 16:43:26 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 01 16:33:04 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240531ical\	QMethod	: FS240531RVTDakota.m
Data File	: AP9L5.D	Operator	: Dakota:mrg
Date Inj'd	: 5/31/2024 11:08 pm	Instrument	: Dakota
Sample	: IL6,32,,AP9L2.5 Lot# 10704	Quant Date	: 6/1/2024 4:44 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : AP9L4.D
Acq On : 31 May 2024 11:30 pm
Operator : Dakota:mrg
Sample : IL7,32,,AP9L1 Lot# 10705
Misc : WG1930266
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 05 18:10:12 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:10:44 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.826	152	28814	4.000	ug/ml	0.00
Standard Area 3 = 30508			Recovery = 94.45%			
55) IS2_Naphthalene-d8	6.063	136	103876	4.000	ug/ml	0.00
Standard Area 3 = 104918			Recovery = 99.01%			
83) IS2_Acenaphthene-d10	7.766	164	66474	4.000	ug/ml	0.00
Standard Area 3 = 69949			Recovery = 95.03%			
98) IS2_Phenanthrene-d10	9.199	188	156203	4.000	ug/ml	0.00
Standard Area 3 = 160290			Recovery = 97.45%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.397	105	6889	0.997	ug/ml	95
29) Acetophenone	5.226	105	11556	1.007	ug/ml#	83
30) m-Toluidine	5.304	106	10697	1.020	ug/ml	89
31) 2-Chloroaniline	5.665	127	10338	0.996	ug/ml#	92
56) a-Terpineol	6.115	59	6126	0.953	ug/ml#	66
57) 3-Chloroaniline	6.125	65	3489	0.985	ug/ml	97
58) 2,6-Dichlorophenol	6.156	162	7981	0.964	ug/ml#	85
59) 1-chloro-2-nitrobenzene	6.411	111	3124	0.998	ug/ml#	1
60) Caprolactam	6.442	55	2876	0.858	ug/ml#	86
61) 1,2,4,5-Tetrachloroben...	6.927	216	11517	0.988	ug/ml#	95
62) Biphenyl	7.219	154	23641	0.978	ug/ml	97
84) Dichloran	8.894	206	2178	1.242	ug/ml#	73
85) Pentachloronitrobenzene	9.046	237	2105	0.789	ug/ml#	86
99) Diphenamid	10.100	167	16879	0.918	ug/ml#	75

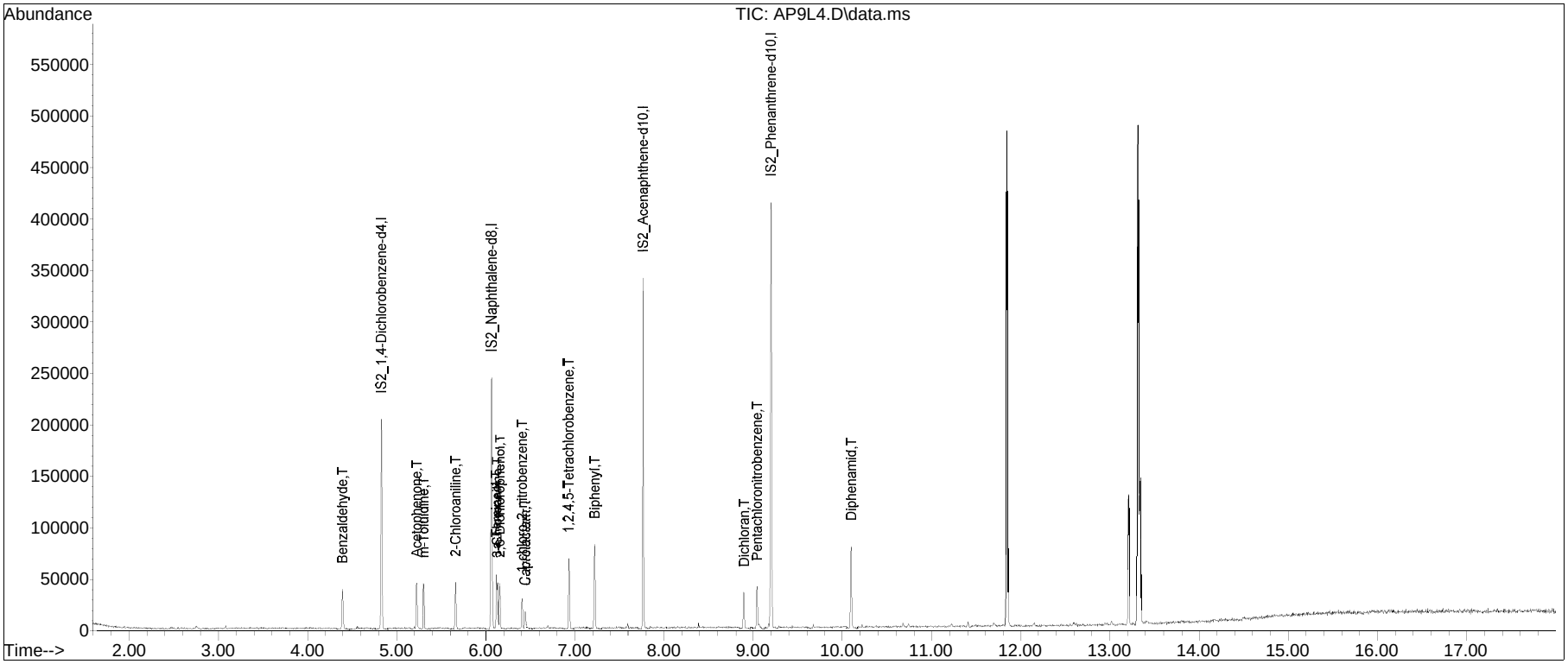
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : AP9L4.D
Acq On : 31 May 2024 11:30 pm
Operator : Dakota:mrg
Sample : IL7,32,,AP9L1 Lot# 10705
Misc : WG1930266
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 05 18:10:12 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:10:44 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240531ical\	QMethod	: FS240531_14D_Dakota.m
Data File	: AP9L4.D	Operator	: Dakota:mrg
Date Inj'd	: 5/31/2024 11:30 pm	Instrument	: Dakota
Sample	: IL7,32,,AP9L1 Lot# 10705	Quant Date	: 6/5/2024 6:10 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : AP9L3.D
Acq On : 31 May 2024 11:53 pm
Operator : Dakota:mrg
Sample : IL8,32,,AP9L0.5 Lot# 10706
Misc : WG1930266
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 05 18:09:54 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:10:26 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.825	152	27003	4.000	ug/ml	0.00
Standard Area 3 = 30508			Recovery = 88.51%			
55) IS2_Naphthalene-d8	6.059	136	99039	4.000	ug/ml	0.00
Standard Area 3 = 104918			Recovery = 94.40%			
83) IS2_Acenaphthene-d10	7.766	164	64204	4.000	ug/ml	0.00
Standard Area 3 = 69949			Recovery = 91.79%			
98) IS2_Phenanthrene-d10	9.199	188	150127	4.000	ug/ml	0.00
Standard Area 3 = 160290			Recovery = 93.66%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.397	105	3603	0.556	ug/ml	95
29) Acetophenone	5.223	105	5707	0.531	ug/ml#	80
30) m-Toluidine	5.304	106	4878	0.496	ug/ml	95
31) 2-Chloroaniline	5.665	127	5135	0.528	ug/ml#	90
56) a-Terpineol	6.112	59	3011	0.491	ug/ml#	67
57) 3-Chloroaniline	6.125	65	1594	0.472	ug/ml	90
58) 2,6-Dichlorophenol	6.156	162	3879	0.491	ug/ml#	84
59) 1-chloro-2-nitrobenzene	6.407	111	1459	0.489	ug/ml#	1
60) Caprolactam	6.445	55	918	0.287	ug/ml#	25
61) 1,2,4,5-Tetrachloroben...	6.930	216	5750	0.517	ug/ml#	97
62) Biphenyl	7.219	154	12191	0.529	ug/ml	99
84) Dichloran	8.891	206	1124	0.931	ug/ml#	72
85) Pentachloronitrobenzene	9.046	237	1227	0.476	ug/ml#	79
99) Diphenamid	10.100	167	9268	0.524	ug/ml#	72

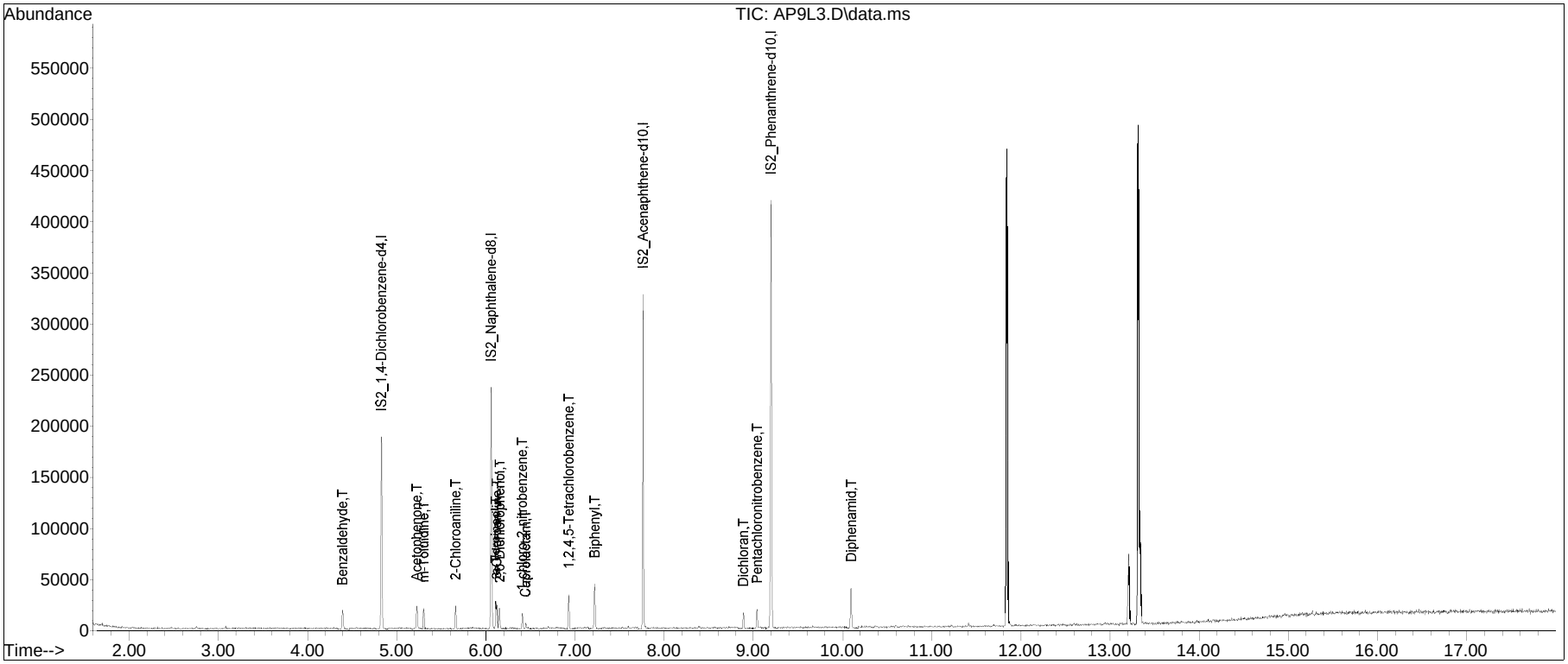
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : AP9L3.D
Acq On : 31 May 2024 11:53 pm
Operator : Dakota:mrg
Sample : IL8,32,,AP9L0.5 Lot# 10706
Misc : WG1930266
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 05 18:09:54 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:10:26 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240531ical\	QMethod	: FS240531_14D_Dakota.m
Data File	: AP9L3.D	Operator	: Dakota:mrg
Date Inj'd	: 5/31/2024 11:53 pm	Instrument	: Dakota
Sample	: IL8,32,,AP9L0.5 Lot# 10706	Quant Date	: 6/5/2024 6:10 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : AP9L2.D
Acq On : 1 Jun 2024 12:15 am
Operator : Dakota:mrg
Sample : IL9,32,,AP9L0.2 Lot# 10707
Misc : WG1930266
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 05 18:06:39 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:07:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.826	152	30237	4.000	ug/ml	0.00
Standard Area 3 = 30508			Recovery = 99.11%			
55) IS2_Naphthalene-d8	6.059	136	110459	4.000	ug/ml	0.00
Standard Area 3 = 104918			Recovery = 105.28%			
83) IS2_Acenaphthene-d10	7.766	164	70703	4.000	ug/ml	0.00
Standard Area 3 = 69949			Recovery = 101.08%			
98) IS2_Phenanthrene-d10	9.199	188	169515	4.000	ug/ml	0.00
Standard Area 3 = 160290			Recovery = 105.76%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.397	105	1643	0.227	ug/ml	94
29) Acetophenone	5.223	105	2065	0.171	ug/ml#	78
30) m-Toluidine	5.304	106	2066	0.188	ug/ml#	87
31) 2-Chloroaniline	5.665	127	2023	0.186	ug/ml	98
56) a-Terpineol	6.112	59	1340	0.196	ug/ml#	66
57) 3-Chloroaniline	6.128	65	679	0.180	ug/ml#	74
58) 2,6-Dichlorophenol	6.156	162	1772	0.201	ug/ml#	82
59) 1-chloro-2-nitrobenzene	6.411	111	760	0.228	ug/ml#	1
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	6.927	216	2801	0.226	ug/ml#	72
62) Biphenyl	7.219	154	5588	0.217	ug/ml	99
84) Dichloran	8.891	206	415M2	0.693	ug/ml	
85) Pentachloronitrobenzene	9.043	237	485M2	0.171	ug/ml	
99) Diphenamid	10.097	167	3832	0.192	ug/ml#	72

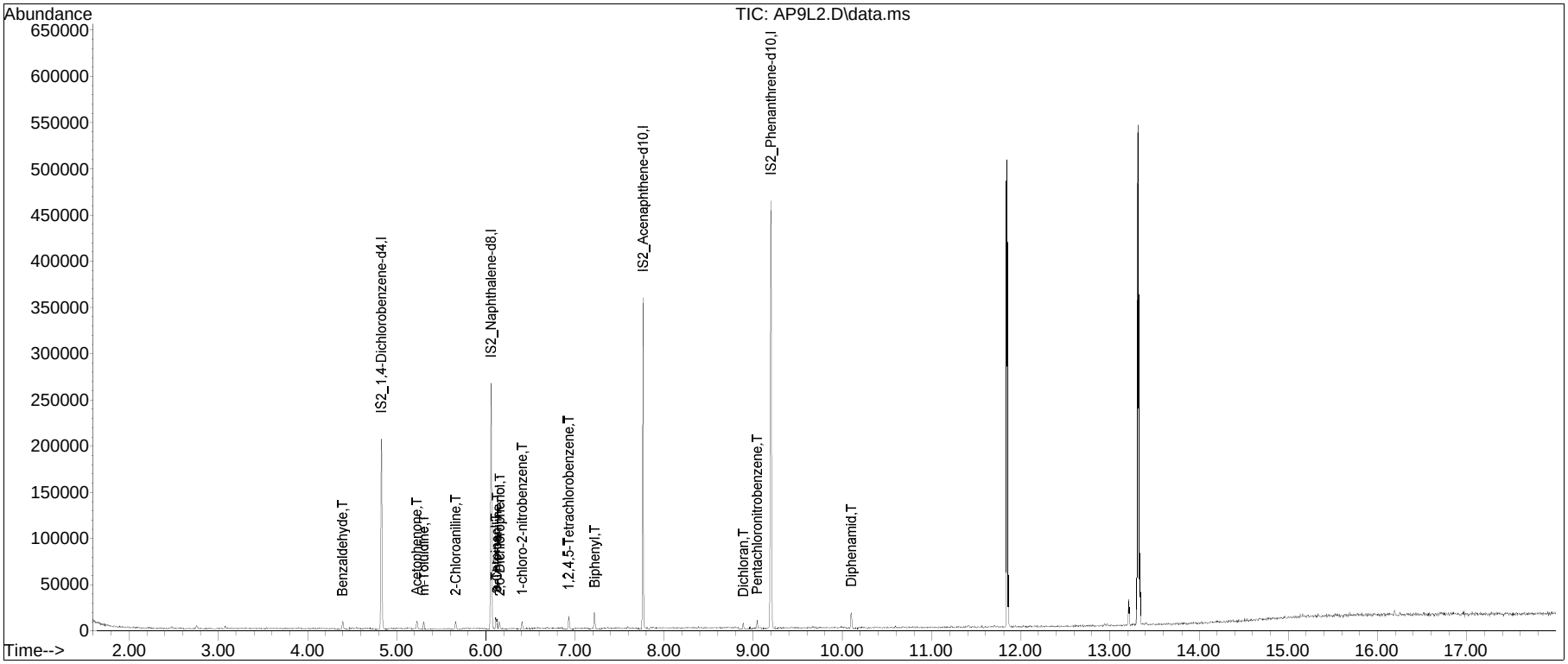
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : AP9L2.D
Acq On : 1 Jun 2024 12:15 am
Operator : Dakota:mrg
Sample : IL9,32,,AP9L0.2 Lot# 10707
Misc : WG1930266
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 05 18:06:39 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:07:12 2024
Response via : Initial Calibration

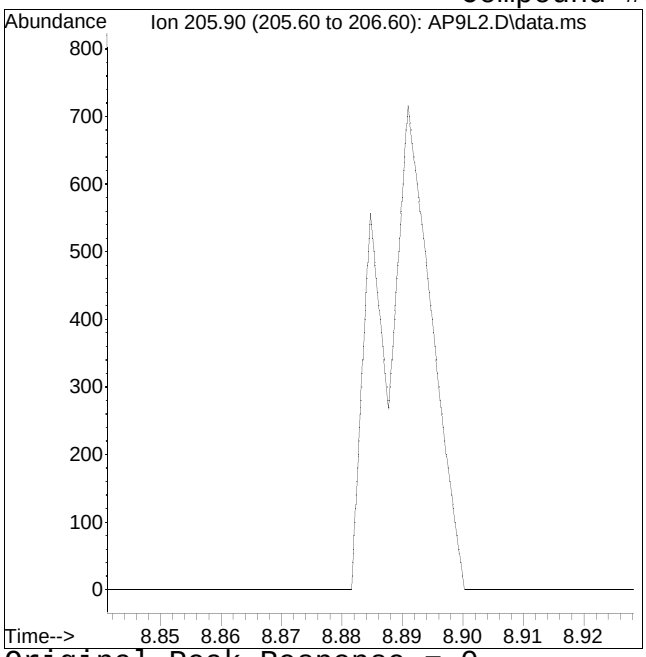
Sub List : AP9ical - AP9 ical sublistcal\AP9L6.D•



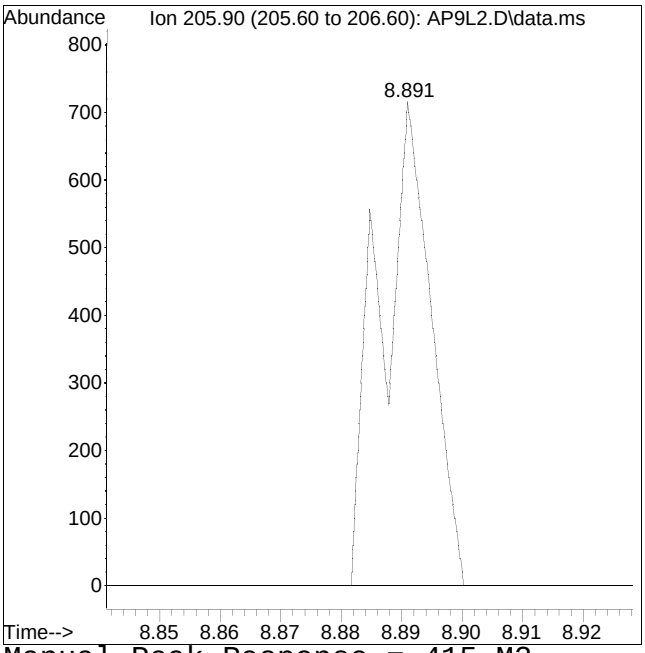
Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : AP9L2.D Operator : Dakota:mrg
Date Inj'd : 6/1/2024 12:15 am Instrument : Dakota
Sample : IL9,32,,AP9L0.2 Lot# 10707Quant Date : 6/5/2024 6:07 pm

Compound #84: Dichloran



Original Peak Response = 0



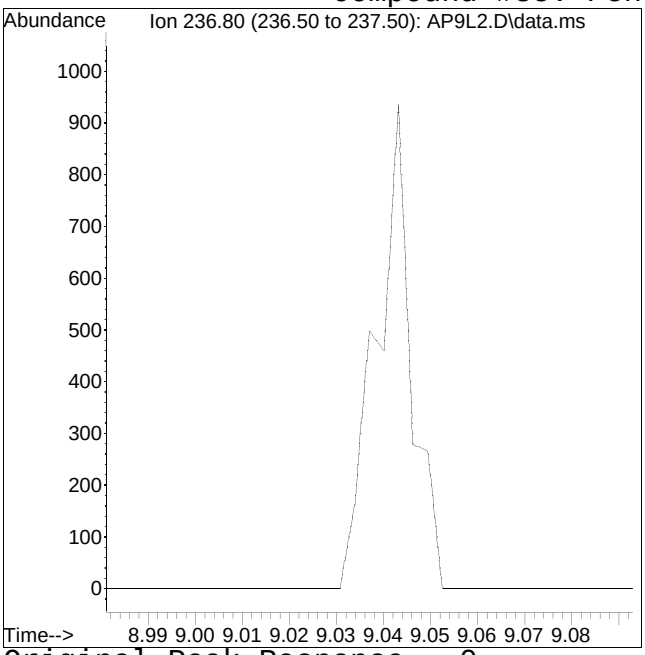
Manual Peak Response = 415 M2

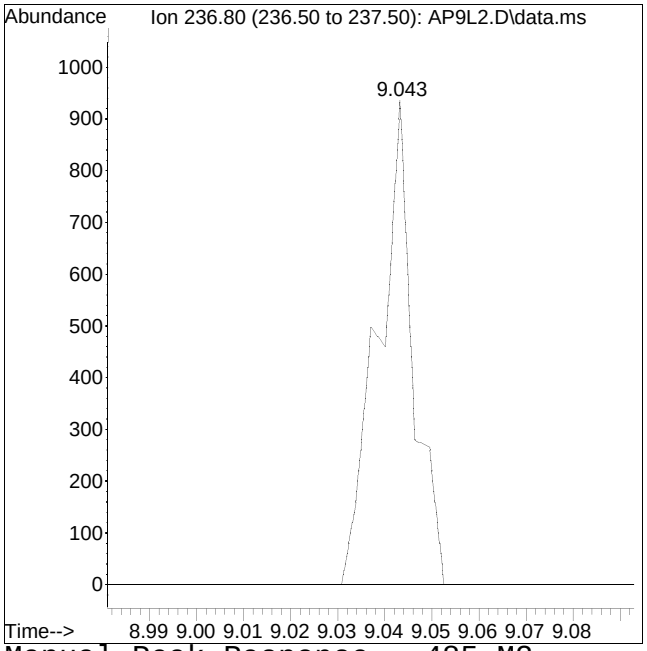
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : AP9L2.D Operator : Dakota:mrg
Date Inj'd : 6/1/2024 12:15 am Instrument : Dakota
Sample : IL9,32,,AP9L0.2 Lot# 10707Quant Date : 6/5/2024 6:07 pm

Compound #85: Pentachloronitrobenzene





Original Peak Response = 0 Manual Peak Response = 485 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : AP9L1.D
Acq On : 1 Jun 2024 12:37 am
Operator : Dakota:mrg
Sample : IL10,32,,AP9L0.1 Lot# 10708
Misc : WG1930266
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 05 18:05:39 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:06:10 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	4.826	152	27359	4.000	ug/ml		0.00
Standard Area 3 = 30508			Recovery = 89.68%				
55) IS2_Naphthalene-d8	6.059	136	97567	4.000	ug/ml	#	0.00
Standard Area 3 = 104918			Recovery = 92.99%				
83) IS2_Acenaphthene-d10	7.763	164	63261	4.000	ug/ml		0.00
Standard Area 3 = 69949			Recovery = 90.44%				
98) IS2_Phenanthrene-d10	9.199	188	151741	4.000	ug/ml		0.00
Standard Area 3 = 160290			Recovery = 94.67%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	4.400	105	608	0.093	ug/ml		97
29) Acetophenone	5.226	105	1115	0.102	ug/ml	#	39
30) m-Toluidine	5.307	106	838	0.084	ug/ml	#	85
31) 2-Chloroaniline	5.662	127	939	0.095	ug/ml	#	42
56) a-Terpineol	6.109	59	643	0.106	ug/ml	#	32
57) 3-Chloroaniline	6.128	65	397M2	0.119	ug/ml		
58) 2,6-Dichlorophenol	6.156	162	792	0.102	ug/ml	#	15
59) 1-chloro-2-nitrobenzene	6.411	111	241M2	0.082	ug/ml		
60) Caprolactam	0.000		0	N.D.			
61) 1,2,4,5-Tetrachloroben...	6.927	216	1128	0.103	ug/ml	#	81
62) Biphenyl	7.219	154	2438	0.107	ug/ml		97
84) Dichloran	0.000		0	N.D.			
85) Pentachloronitrobenzene	0.000		0	N.D.			
99) Diphenamid	10.097	167	1781	0.100	ug/ml	#	64

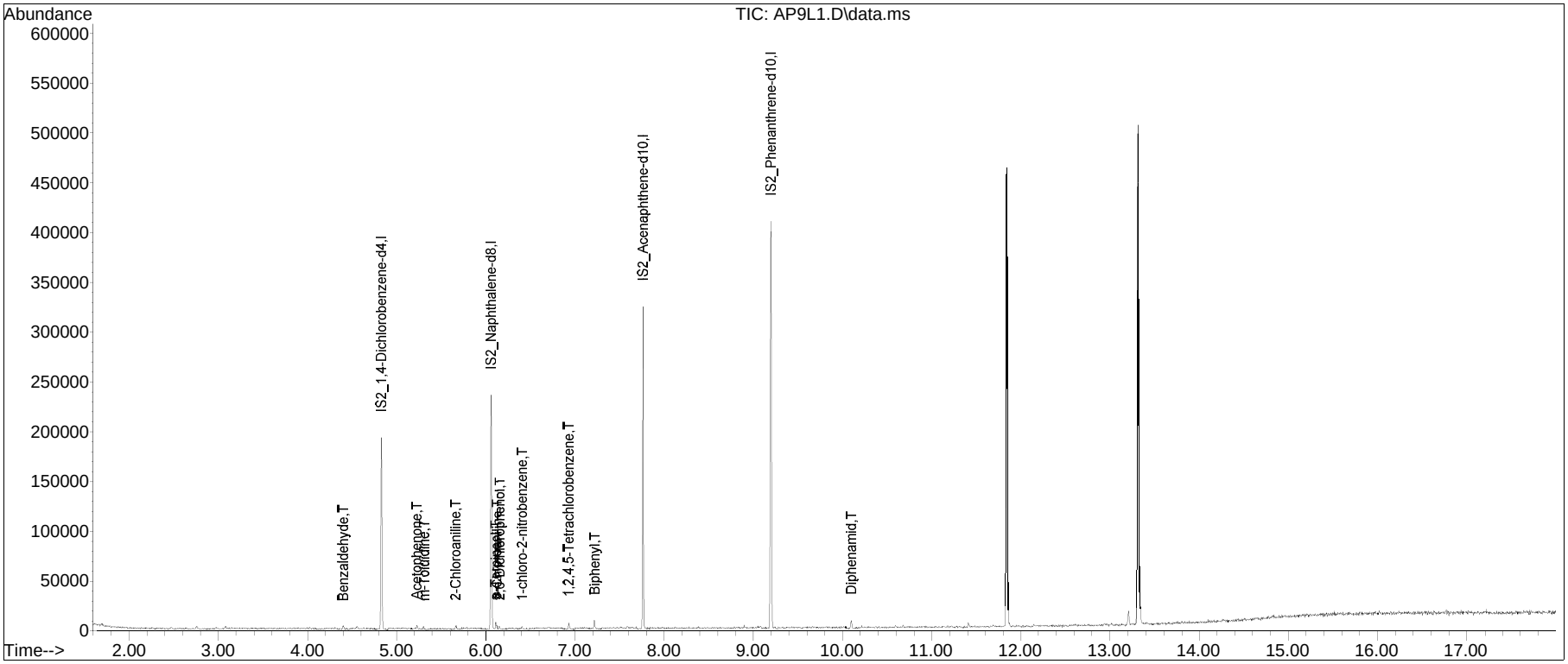
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : AP9L1.D
Acq On : 1 Jun 2024 12:37 am
Operator : Dakota:mrg
Sample : IL10,32,,AP9L0.1 Lot# 10708
Misc : WG1930266
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 05 18:05:39 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:06:10 2024
Response via : Initial Calibration

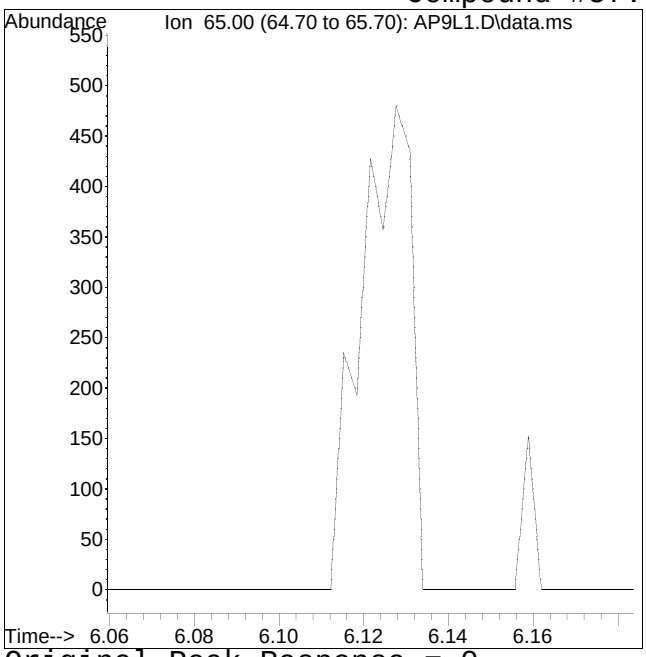
Sub List : AP9ical - AP9 ical sublistcal\AP9L6.D•



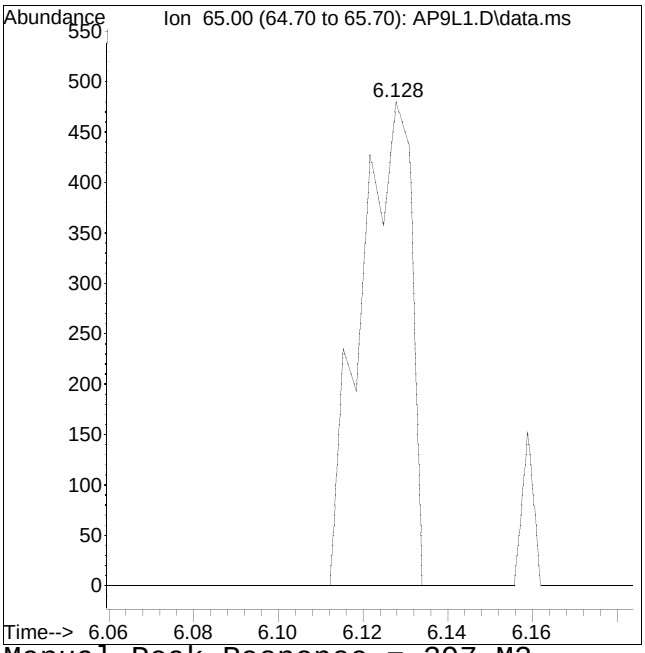
Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : AP9L1.D Operator : Dakota:mrg
Date Inj'd : 6/1/2024 12:37 am Instrument : Dakota
Sample : IL10,32,,AP9L0.1 Lot# 1070Quant Date : 6/5/2024 6:06 pm

Compound #57: 3-Chloroaniline



Original Peak Response = 0



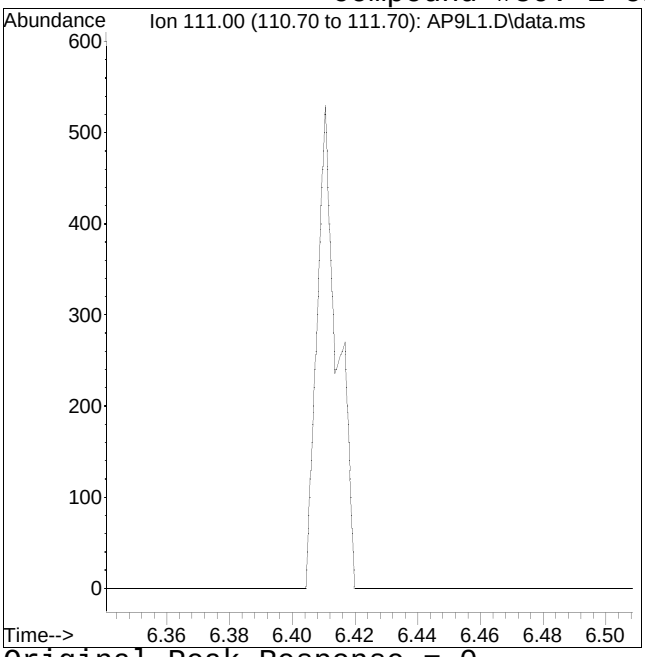
Manual Peak Response = 397 M2

M2 = Peak not found by automatic integration algorithm.

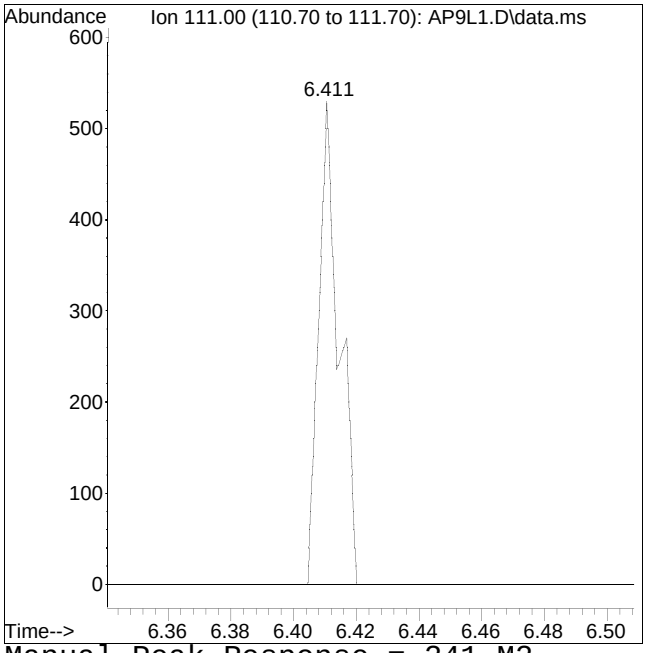
Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : AP9L1.D Operator : Dakota:mrg
Date Inj'd : 6/1/2024 12:37 am Instrument : Dakota
Sample : IL10,32,,AP9L0.1 Lot# 1070Quant Date : 6/5/2024 6:06 pm

Compound #59: 1-chloro-2-nitrobenzene



Original Peak Response = 0



Manual Peak Response = 241 M2

M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNICV.D
Acq On : 1 Jun 2024 1:00 am
Operator : Dakota:mrg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1930266
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 05 17:45:53 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:46:27 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	98	0.00
2	t	n-Nitrosodimethylamine		0.643	0.693	-7.8	109	0.00
3	t	Pyridine		1.051	1.114	-6.0	105	0.01
4	S	2-Fluorophenol		1.003	1.050	-4.7	108	0.00
5	T	Aniline		1.625	1.754	-7.9	107	0.00
6	t	2-Chlorophenol		1.121	1.192	-6.3	103	0.00
7	S	Phenol-d6		1.244	1.378	-10.8	109	0.00
8	T	Phenol		1.393	1.549	-11.2	108	0.00
9	T	Bis(2-chloroethyl)ether		0.948	1.032	-8.9	105	0.00
10	T	1,3-Dichlorobenzene		1.422	1.512	-6.3	107	0.00
11	T	1,4-Dichlorobenzene		1.411	1.548	-9.7	110	0.00
12	T	1,2-Dichlorobenzene		1.364	1.463	-7.3	104	0.00
13	t	Benzyl alcohol		0.915	1.008	-10.2	107	0.00
14	T	Bis(2-chloroisopropyl)ether		1.578	1.654	-4.8	106	0.00
15	T	2-Methylphenol		0.937	1.037	-10.7	107	0.00
16	T	Hexachloroethane		0.505	0.537	-6.3	106	0.00
17	T	n-Nitrosodi-n-propylamine		0.843	0.892	-5.8	105	0.00
18	T	3-Methylphenol/4-Methylphen		1.022	1.077	-5.4	102	0.00
19	S	Nitrobenzene-d5		1.102	1.145	-3.9	103	0.00
20	T	Nitrobenzene		1.084	1.181	-8.9	107	0.00
21	T	Isophorone		2.100	2.273	-8.2	106	0.00
22	T	2-Nitrophenol		0.495	0.510	-3.0	102	0.00
23	T	2,4-Dimethylphenol		0.972	1.020	-4.9	99	0.00
24	T	Bis(2-chloroethoxy)methane		1.258	1.404	-11.6	106	0.00
25	T	2,4-Dichlorophenol		1.126	1.218	-8.2	104	0.00
26	T	1,2,4-Trichlorobenzene		1.352	1.510	-11.7	108	0.00
35	I	IS1_Naphthalene-d8		1.000	1.000	0.0	96	0.00
36	T	Naphthalene		0.964	1.005	-4.3	106	0.00
37	T	Benzoic Acid	*	5.000	4.289	14.2	96	-0.02
38	T	4-Chloroaniline		0.118	0.122	-3.4	110	0.00
39	T	Hexachlorobutadiene		0.228	0.248	-8.8	108	0.00
40	T	p-Chloro-m-cresol		0.261	0.278	-6.5	107	0.00
41	T	2-Methylnaphthalene		0.690	0.733	-6.2	108	0.00
42	T	1-Methylnaphthalene		0.230	0.231	-0.4	102	0.00
43	T	Hexachlorocyclopentadiene		0.241	0.273	-13.3	115	0.00
44	T	2,4,6-Trichlorophenol		0.267	0.285	-6.7	106	0.00
45	T	2,4,5-Trichlorophenol		0.290	0.309	-6.6	105	0.00
46	S	2-Fluorobiphenyl		0.920	0.984	-7.0	112	0.00

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNICV.D
Acq On : 1 Jun 2024 1:00 am
Operator : Dakota:mrg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1930266
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 05 17:45:53 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:46:27 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
47	T	2-Chloronaphthalene		0.759	0.803	-5.8	107	0.00
48	T	2-Nitroaniline		0.179	0.191	-6.7	108	0.00
49	T	1,4-Dinitrobenzene		0.080	0.081	-1.3	103	0.00
50	T	1,3-Dinitrobenzene		0.089	0.098	-10.1	106	0.00
51	T	Dimethyl phthalate		0.896	0.981	-9.5	110	0.00
52	T	Acenaphthylene		1.130	1.229	-8.8	112	0.00
53	T	2,6-Dinitrotoluene		0.157	0.179	-14.0	117	0.00
54	T	1,2-Dinitrobenzene		0.055	0.060	-9.1	109	0.00
63	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	93	0.00
64	T	3-Nitroaniline		0.236	0.284	-20.3#	111	0.00
65	T	Acenaphthene		0.993	1.067	-7.5	108	0.00
66	T	2,4-Dinitrophenol	*	5.000	5.126	-2.5	110	0.00
67	T	Dibenzofuran		1.665	1.839	-10.5	109	0.00
68	T	2,4-Dinitrotoluene		0.299	0.348	-16.4	107	0.00
69	T	4-Nitrophenol		0.205	0.232	-13.2	102	0.00
70	T	2,3,5,6-Tetrachlorophenol		0.369	0.422	-14.4	110	0.00
71	T	2,3,4,6-Tetrachlorophenol		0.355	0.417	-17.5	113	0.00
72	T	Diethyl phthalate		1.362	1.475	-8.3	108	0.00
73	T	Fluorene		1.323	1.439	-8.8	109	0.00
74	T	4-Chlorophenyl phenyl ether		0.702	0.744	-6.0	108	0.00
75	T	4-Nitroaniline		0.252	0.297	-17.9	106	0.00
76	T	4,6-Dinitro-o-cresol	*	5.000	5.297	-5.9	111	0.00
77	T	NDPA/DPA		1.141	1.253	-9.8	107	0.00
78	T	Azobenzene		1.142	1.231	-7.8	108	0.00
79	S	2,4,6-Tribromophenol		0.187	0.219	-17.1	109	0.00
80	T	4-Bromophenyl phenyl ether		0.436	0.471	-8.0	107	0.00
81	T	Hexachlorobenzene		0.502	0.526	-4.8	108	0.00
82	T	Pentachlorophenol	*	5.000	5.095	-1.9	103	0.00
88	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	95	0.00
89	T	Phenanthrene		1.003	1.068	-6.5	110	0.00
90	T	Anthracene		0.980	1.081	-10.3	111	0.00
91	T	Carbazole		0.949	1.007	-6.1	109	0.00
92	T	Di-n-butylphthalate		1.032	1.129	-9.4	110	0.00
93	T	Fluoranthene		1.280	1.367	-6.8	112	0.00
94	T	Benzidine		0.733	0.854	-16.5	107	0.00
95	T	Pyrene		1.344	1.424	-6.0	111	0.00
96	S	4-Terphenyl-d14		1.001	1.064	-6.3	110	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNICV.D
Acq On : 1 Jun 2024 1:00 am
Operator : Dakota:mrg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1930266
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 05 17:45:53 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:46:27 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
97	T	Butyl benzyl phthalate	0.473	0.506	-7.0	109	0.00
104	I	IS1_Chrysene-d12	1.000	1.000	0.0	92	0.00
105	T	Benzo(a)anthracene	1.378	1.424	-3.3	111	0.00
106	T	3,3'-Dichlorobenzidine	0.473	0.527	-11.4	107	0.00
107	T	Chrysene	1.263	1.340	-6.1	109	0.00
108	T	Bis(2-ethylhexyl)phthalate	0.666	0.749	-12.5	109	0.00
109	T	Di-n-octylphthalate	1.136	1.292	-13.7	111	0.00
110	T	Benzo(b)fluoranthene	1.418	1.456	-2.7	107	0.00
111	T	Benzo(k)fluoranthene	1.357	1.423	-4.9	113	0.00
112	T	Benzo(a)pyrene	1.262	1.376	-9.0	111	0.00
113	I	IS1_Perylene-d12	1.000	1.000	0.0	90	0.00
114	T	Indeno(1,2,3-cd)pyrene	1.186	1.309	-10.4	103	0.00
115	T	Dibenzo(a,h)anthracene	1.089	1.224	-12.4	110	0.00
116	T	Benzo(ghi)perylene	1.087	1.176	-8.2	107	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNICV.D
Acq On : 1 Jun 2024 1:00 am
Operator : Dakota:mrg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1930266
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 05 17:45:53 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:46:27 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.825	152	29527	4.000	ug/ml	0.00
Standard Area 1 = 30198			Recovery = 97.78%			
35) IS1_Naphthalene-d8	6.059	136	107197	4.000	ug/ml	0.00
Standard Area 1 = 112237			Recovery = 95.51%			
63) IS1_Acenaphthene-d10	7.766	164	70822	4.000	ug/ml	0.00
Standard Area 1 = 76464			Recovery = 92.62%			
88) IS1_Phenanthrene-d10	9.199	188	162165	4.000	ug/ml	0.00
Standard Area 1 = 170352			Recovery = 95.19%			
104) IS1_Chrysene-d12	11.844	240	168532	4.000	ug/ml	0.00
Standard Area 1 = 183196			Recovery = 92.00%			
113) IS1_Perylene-d12	13.314	264	192045	4.000	ug/ml	0.00
Standard Area 1 = 212317			Recovery = 90.45%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.564	112	38766	5.236	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 261.80%#			
7) Phenol-d6	4.499	99	50854	5.538	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 276.90%#			
19) Nitrobenzene-d5	5.363	82	42244	5.195	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 519.50%#			
46) 2-Fluorobiphenyl	7.129	172	131818	5.349	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 534.90%#			
79) 2,4,6-Tribromophenol	8.530	330	19418	5.876	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 293.80%#			
96) 4-Terphenyl-d14	10.777	244	215726	5.314	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 531.40%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.196	74	25564	5.383	ug/ml#	86
3) Pyridine	2.233	79	41123	5.298	ug/ml#	58
5) Aniline	4.508	93	64722	5.396	ug/ml#	47
6) 2-Chlorophenol	4.620	128	43998	5.316	ug/ml#	90
8) Phenol	4.512	94	57171	5.559	ug/ml#	48
9) Bis(2-chloroethyl)ether	4.586	93	38088	5.445	ug/ml	97
10) 1,3-Dichlorobenzene	4.773	146	55792	5.316	ug/ml	93
11) 1,4-Dichlorobenzene	4.844	146	57153	5.486	ug/ml	93
12) 1,2-Dichlorobenzene	4.990	146	54014	5.364	ug/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNICV.D
Acq On : 1 Jun 2024 1:00 am
Operator : Dakota:mrg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1930266
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 05 17:45:53 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:46:27 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	4.975	79	37220	5.513	ug/ml	98
14) Bis(2-chloroisopropyl)...	5.115	45	61063	5.243	ug/ml#	55
15) 2-Methylphenol	5.099	108	38265	5.529	ug/ml	99
16) Hexachloroethane	5.320	117	19824	5.322	ug/ml#	45
17) n-Nitrosodi-n-propylamine	5.239	70	32937	5.296	ug/ml#	87
18) 3-Methylphenol/4-Methy...	5.251	108	39769	5.272	ug/ml	100
20) Nitrobenzene	5.382	77	43606	5.447	ug/ml	95
21) Isophorone	5.621	82	83894	5.413	ug/ml	95
22) 2-Nitrophenol	5.699	139	18839	5.151	ug/ml	90
23) 2,4-Dimethylphenol	5.767	107	37646	5.246	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.854	93	51818	5.580	ug/ml#	95
25) 2,4-Dichlorophenol	5.935	162	44941	5.407	ug/ml#	92
26) 1,2,4-Trichlorobenzene	6.016	180	55744	5.587	ug/ml#	96
36) Naphthalene	6.081	128	134653	5.210	ug/ml	98
37) Benzoic Acid	5.836	105	20208	4.289	ug/ml	86
38) 4-Chloroaniline	6.146	65	16371	5.184	ug/ml	76
39) Hexachlorobutadiene	6.227	225	33265	5.454	ug/ml	98
40) p-Chloro-m-cresol	6.637	107	37190	5.319	ug/ml	87
41) 2-Methylnaphthalene	6.759	142	98236	5.312	ug/ml	96
42) 1-Methylnaphthalene	6.852	115	30983	5.022	ug/ml	93
43) Hexachlorocyclopentadiene	6.930	237	36600	5.662	ug/ml	99
44) 2,4,6-Trichlorophenol	7.042	196	38248	5.347	ug/ml	99
45) 2,4,5-Trichlorophenol	7.073	196	41338	5.314	ug/ml	100
47) 2-Chloronaphthalene	7.225	162	107540	5.287	ug/ml#	91
48) 2-Nitroaniline	7.331	138	25660	5.360	ug/ml#	83
49) 1,4-Dinitrobenzene	7.464	168	10826	5.075	ug/ml	90
50) 1,3-Dinitrobenzene	7.539	168	13074	5.473	ug/ml#	1
51) Dimethyl phthalate	7.530	163	131396	5.474	ug/ml#	98
52) Acenaphthylene	7.623	152	164677	5.436	ug/ml	99
53) 2,6-Dinitrotoluene	7.576	165	23920	5.673	ug/ml#	77
54) 1,2-Dinitrobenzene	7.620	168	8060	5.443	ug/ml#	1
64) 3-Nitroaniline	7.732	138	25185	6.020	ug/ml	91
65) Acenaphthene	7.797	154	94451	5.374	ug/ml	87
66) 2,4-Dinitrophenol	7.831	184	11985	5.126	ug/ml#	83
67) Dibenzofuran	7.965	168	162823	5.523	ug/ml	90
68) 2,4-Dinitrotoluene	7.962	165	30807	5.820	ug/ml	93
69) 4-Nitrophenol	7.912	65	20509	5.661	ug/ml#	84
70) 2,3,5,6-Tetrachlorophenol	8.052	232	37315	5.709	ug/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNICV.D
Acq On : 1 Jun 2024 1:00 am
Operator : Dakota:mrg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1930266
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 05 17:45:53 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:46:27 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	8.095	232	36878	5.861	ug/ml	98
72)	Diethyl phthalate	8.220	149	130573	5.416	ug/ml	100
73)	Fluorene	8.297	166	127425	5.440	ug/ml	91
74)	4-Chlorophenyl phenyl ...	8.313	204	65870	5.297	ug/ml#	83
75)	4-Nitroaniline	8.316	138	26329	5.907	ug/ml#	83
76)	4,6-Dinitro-o-cresol	8.353	198	16837	5.297	ug/ml#	60
77)	NDPA/DPA	8.425	169	110910	5.488	ug/ml	92
78)	Azobenzene	8.462	77	108935	5.389	ug/ml	97
80)	4-Bromophenyl phenyl e...	8.782	248	41669	5.396	ug/ml#	79
81)	Hexachlorobenzene	8.838	284	46550	5.234	ug/ml#	82
82)	Pentachlorophenol	9.028	266	28641	5.095	ug/ml	97
89)	Phenanthrene	9.220	178	216545	5.327	ug/ml	98
90)	Anthracene	9.270	178	219062	5.512	ug/ml	99
91)	Carbazole	9.435	167	204152	5.307	ug/ml	98
92)	Di-n-butylphthalate	9.817	149	228840	5.472	ug/ml	98
93)	Fluoranthene	10.373	202	277175	5.342	ug/ml#	90
94)	Benzidine	10.523	184	173118	5.824	ug/ml#	94
95)	Pyrene	10.591	202	288564	5.296	ug/ml	99
97)	Butyl benzyl phthalate	11.303	149	102655	5.357	ug/ml	85
105)	Benzo(a)anthracene	11.834	228	299973	5.166	ug/ml	99
106)	3,3'-Dichlorobenzidine	11.828	252	111080	5.574	ug/ml#	95
107)	Chrysene	11.872	228	282265	5.305	ug/ml	99
108)	Bis(2-ethylhexyl)phtha...	11.940	149	157846	5.624	ug/ml#	92
109)	Di-n-octylphthalate	12.617	149	272203	5.685	ug/ml#	73
110)	Benzo(b)fluoranthene	12.944	252	306810	5.135	ug/ml#	92
111)	Benzo(k)fluoranthene	12.969	252	299712	5.243	ug/ml#	92
112)	Benzo(a)pyrene	13.258	252	289885	5.451	ug/ml#	91
114)	Indeno(1,2,3-cd)pyrene	14.271	276	314139M6	5.516	ug/mL	
115)	Dibenzo(a,h)anthracene	14.287	278	293839	5.622	ug/ml#	88
116)	Benzo(ghi)perylene	14.489	276	282202	5.409	ug/ml#	83

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ABNICV.D
Acq On : 1 Jun 2024 1:00 am
Operator : Dakota:mrg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1930266
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 05 17:45:53 2024
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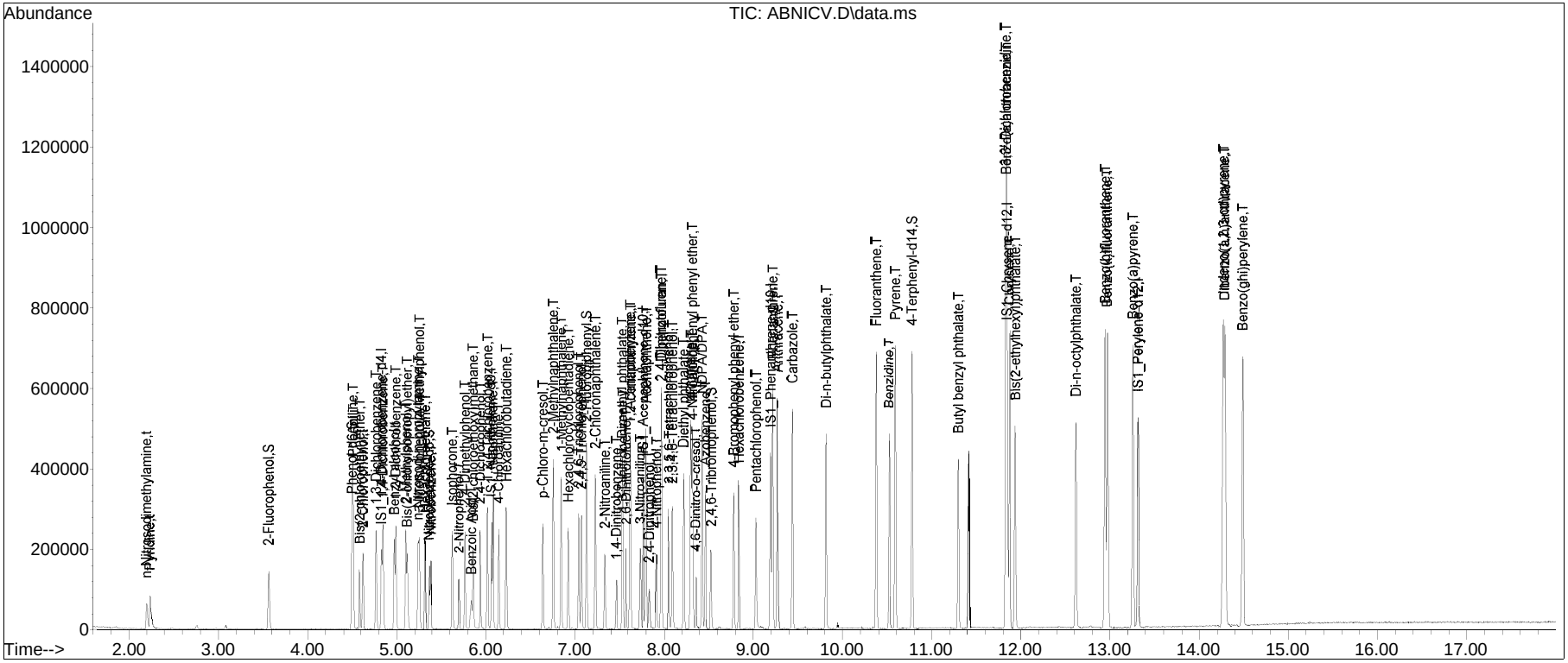
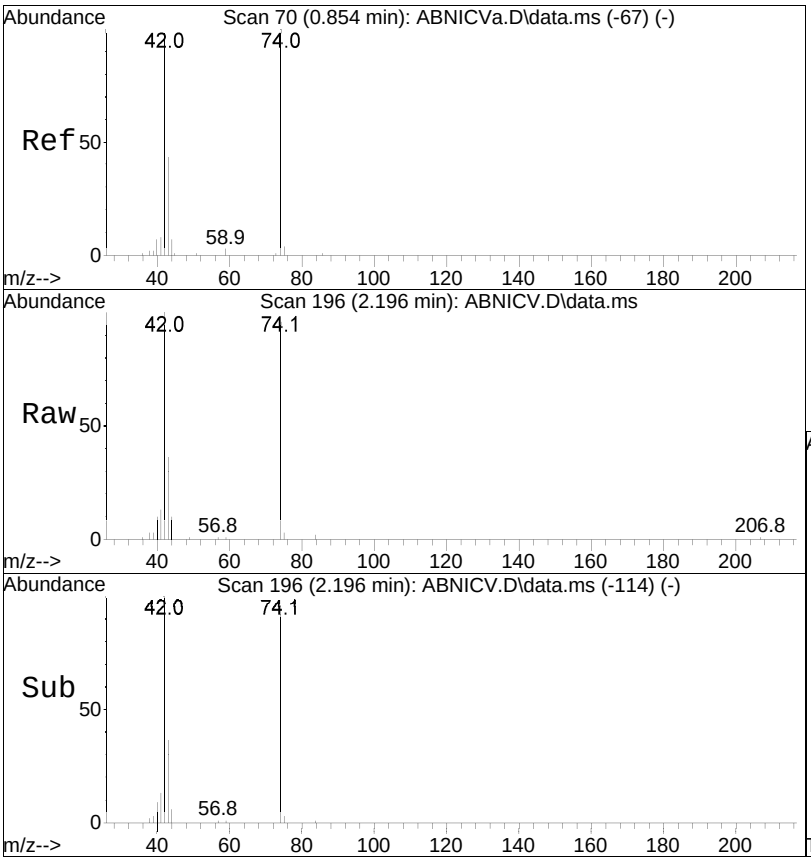
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 17:46:27 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistcal\AP9L6.D•

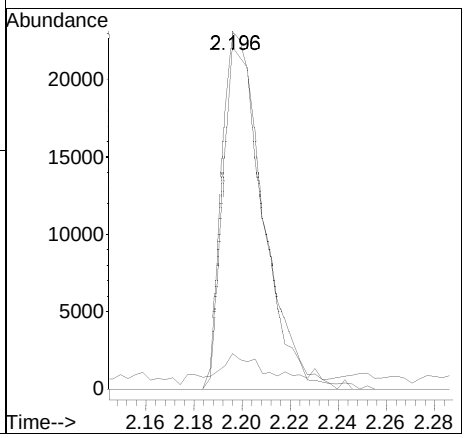


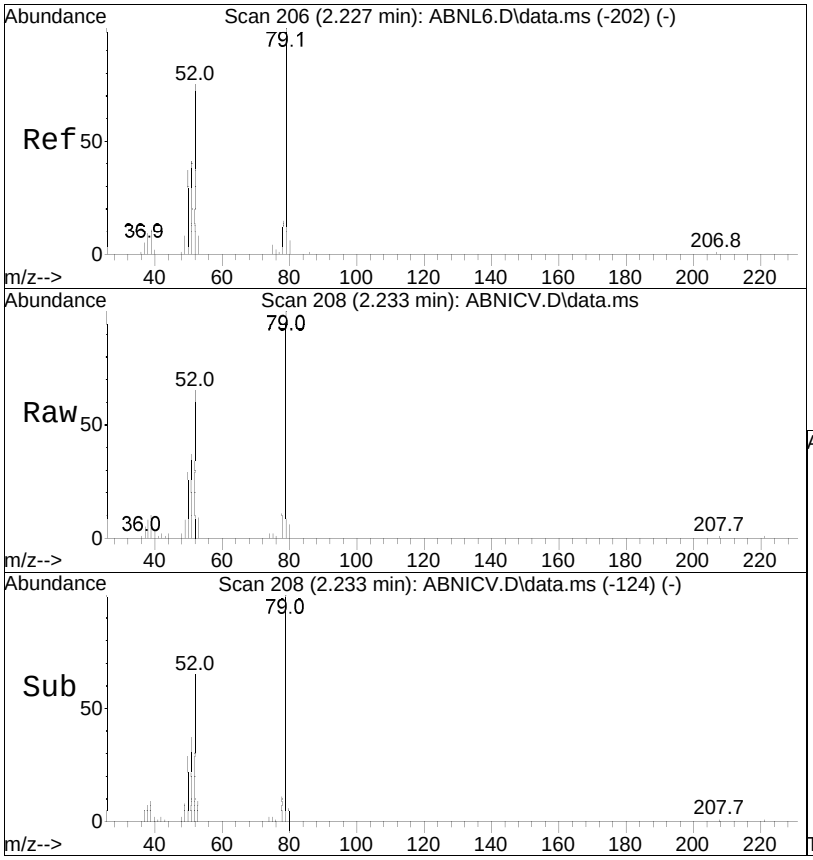


#2
n-Nitrosodimethylamine
Concen: 5.38 ug/ml
RT: 2.196 min Scan# 196
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion: 74 Resp: 25564

Ion	Ratio	Lower	Upper
74	100		
42	108.1	100.0	150.0
44	5.4	6.7	10.1#

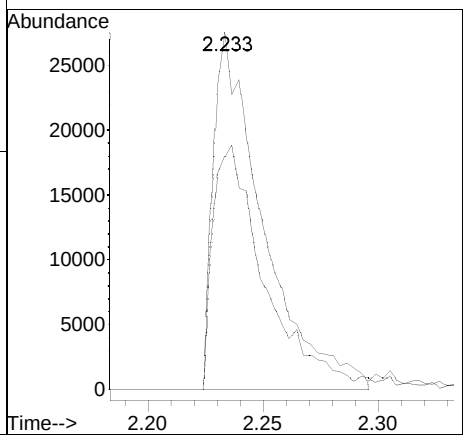


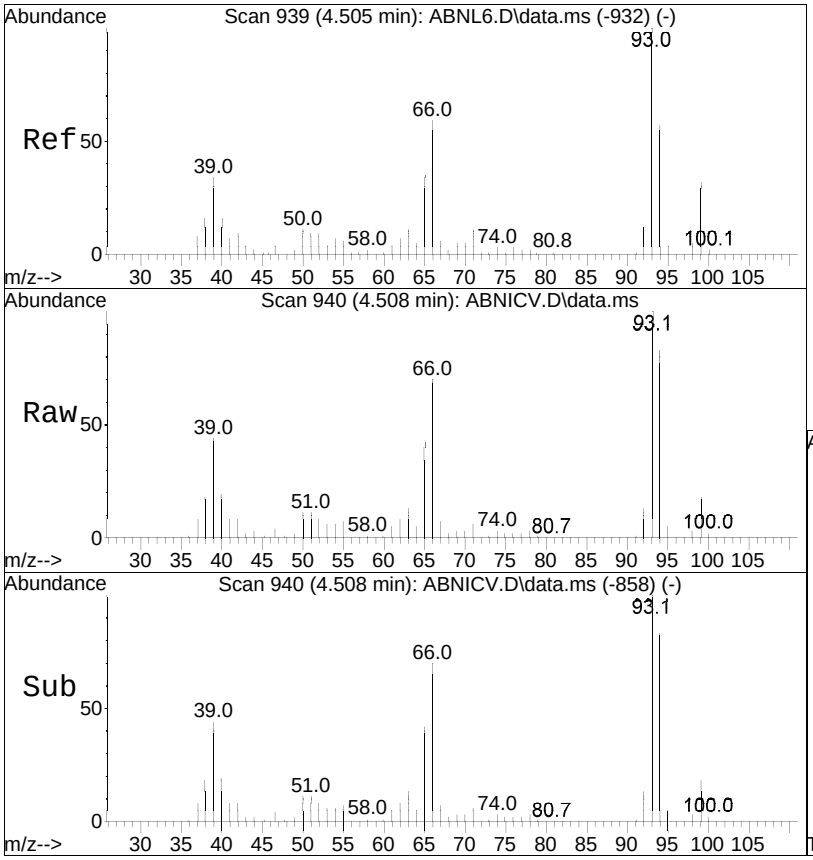


#3
Pyridine
Concen: 5.30 ug/ml
RT: 2.233 min Scan# 208
Delta R.T. 0.012 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion: 79 Resp: 41123

Ion	Ratio	Lower	Upper
79	100		
52	70.8	93.1	139.7#

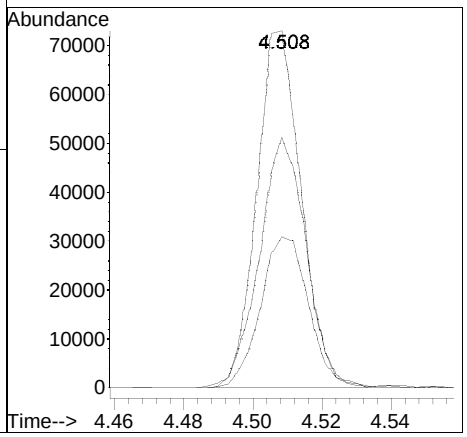


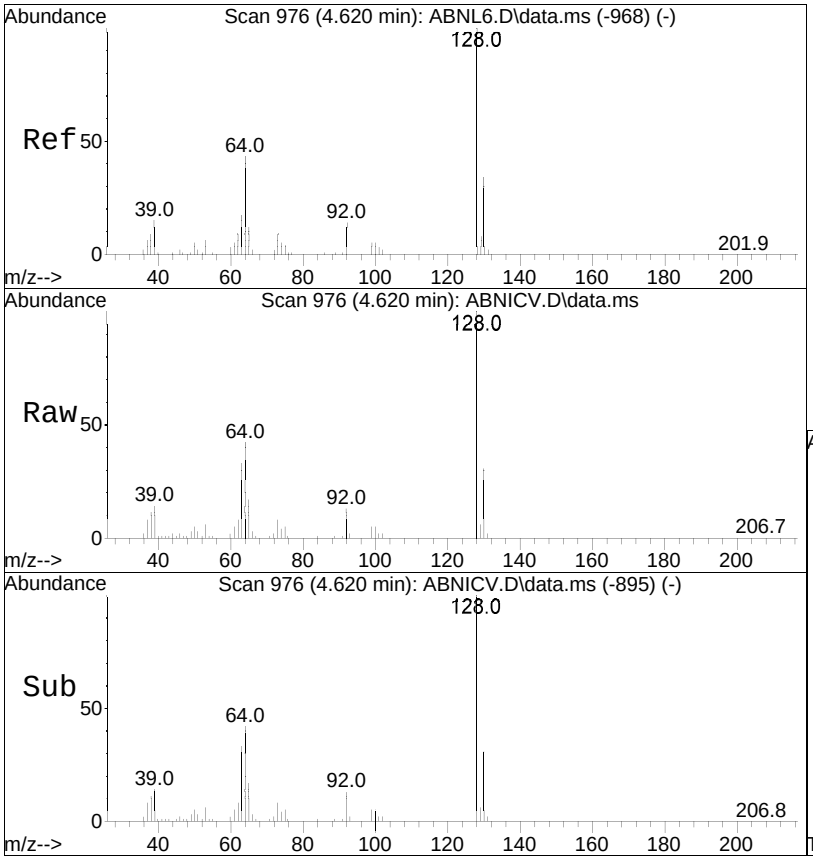


#5
Aniline
Concen: 5.40 ug/ml
RT: 4.508 min Scan# 940
Delta R.T. 0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion: 93 Resp: 64722

Ion	Ratio	Lower	Upper
93	100		
66	74.4	32.6	49.0#
65	46.0	17.6	26.4#

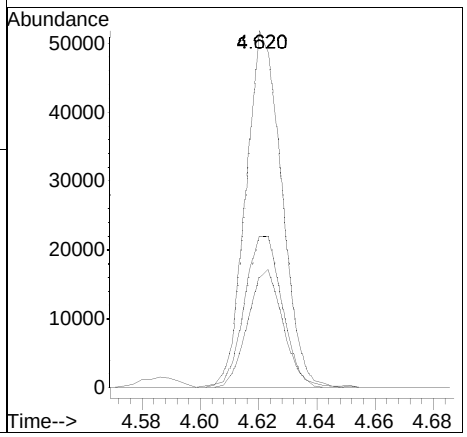


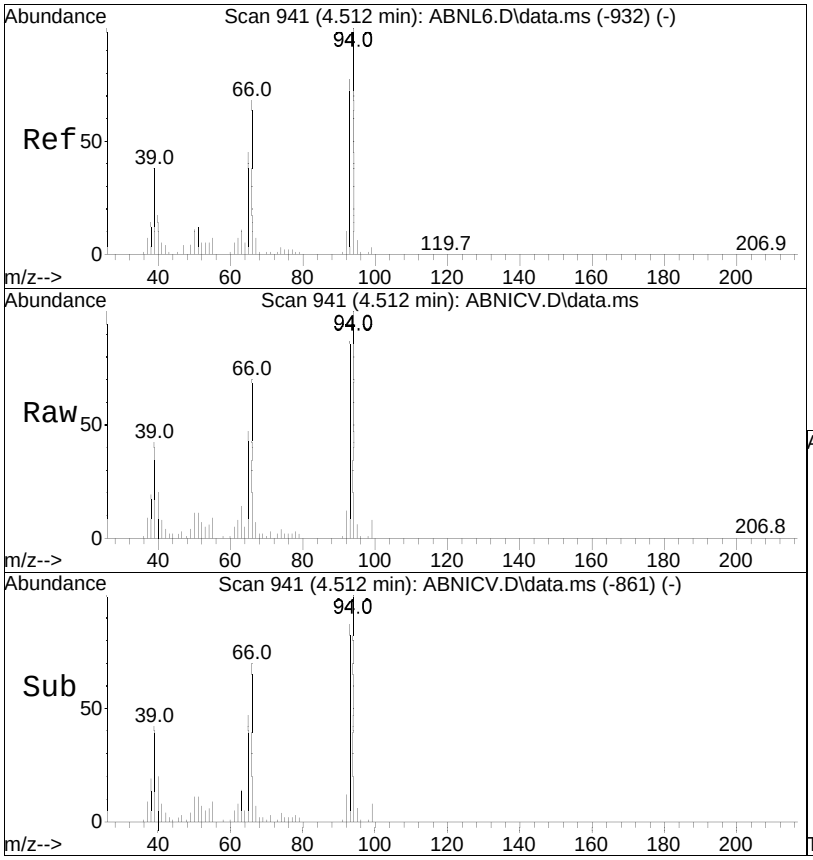


#6
2-Chlorophenol
Concen: 5.32 ug/ml
RT: 4.620 min Scan# 976
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:128 Resp: 43998

Ion	Ratio	Lower	Upper
128	100		
64	45.0	45.1	67.7#
130	32.5	26.2	39.4

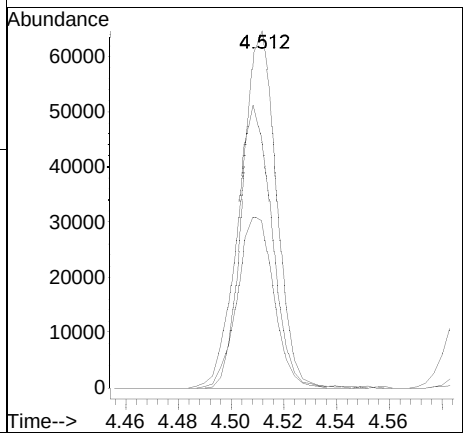


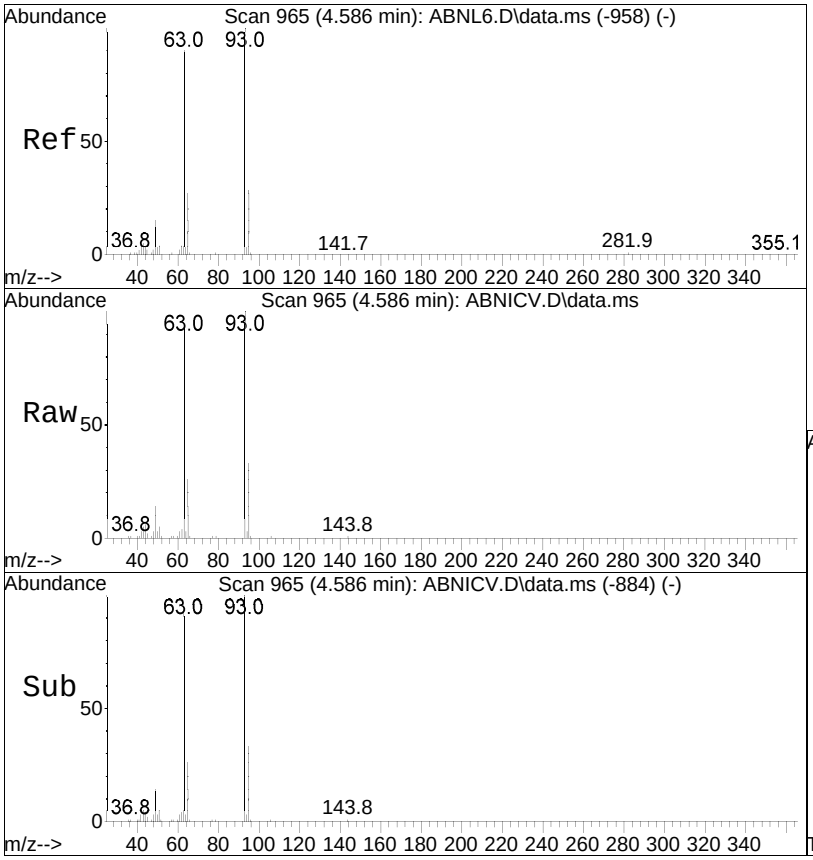


#8
Phenol
Concen: 5.56 ug/ml
RT: 4.512 min Scan# 941
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion: 94 Resp: 57171

Ion	Ratio	Lower	Upper
94	100		
65	52.1	26.0	39.0#
66	84.2	33.8	50.8#

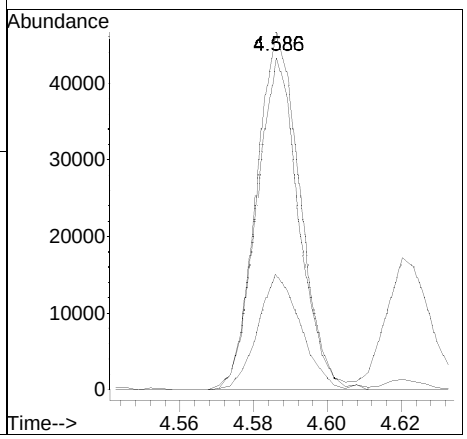


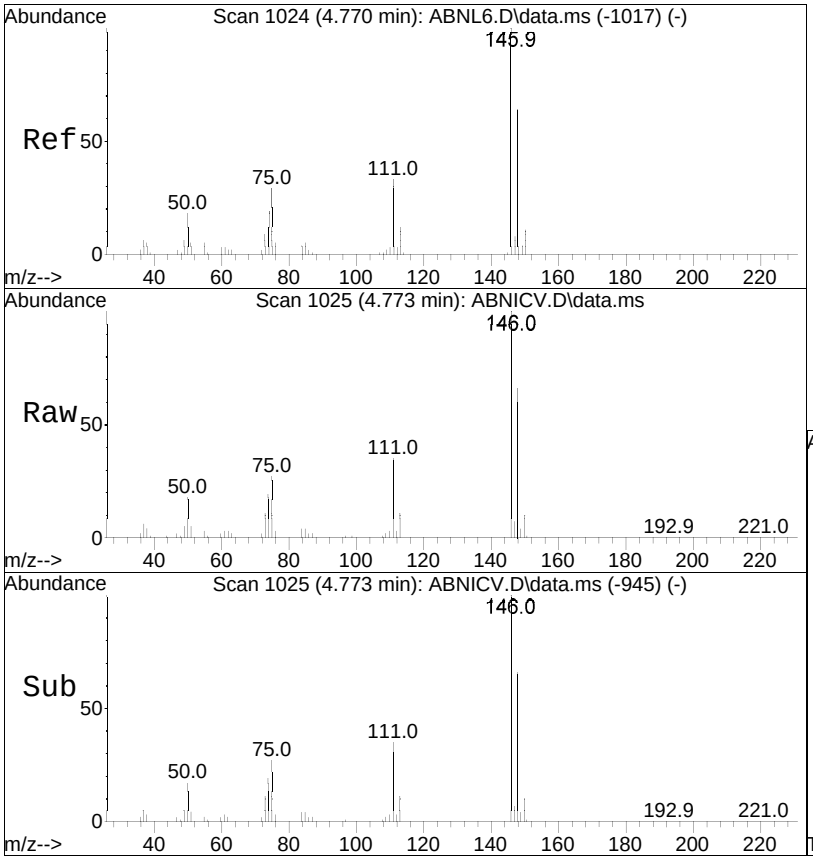


#9
Bis(2-chloroethyl)ether
Concen: 5.45 ug/ml
RT: 4.586 min Scan# 965
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion: 93 Resp: 38088

Ion	Ratio	Lower	Upper
93	100		
63	89.9	74.6	111.8
95	32.2	25.9	38.9

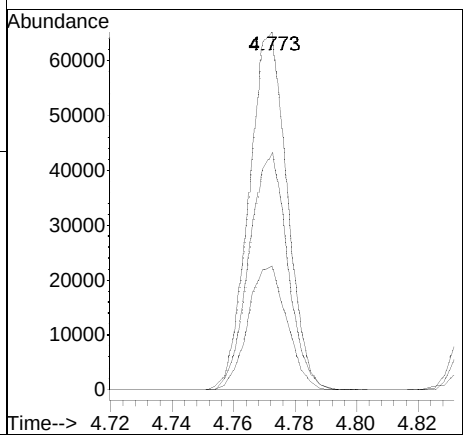


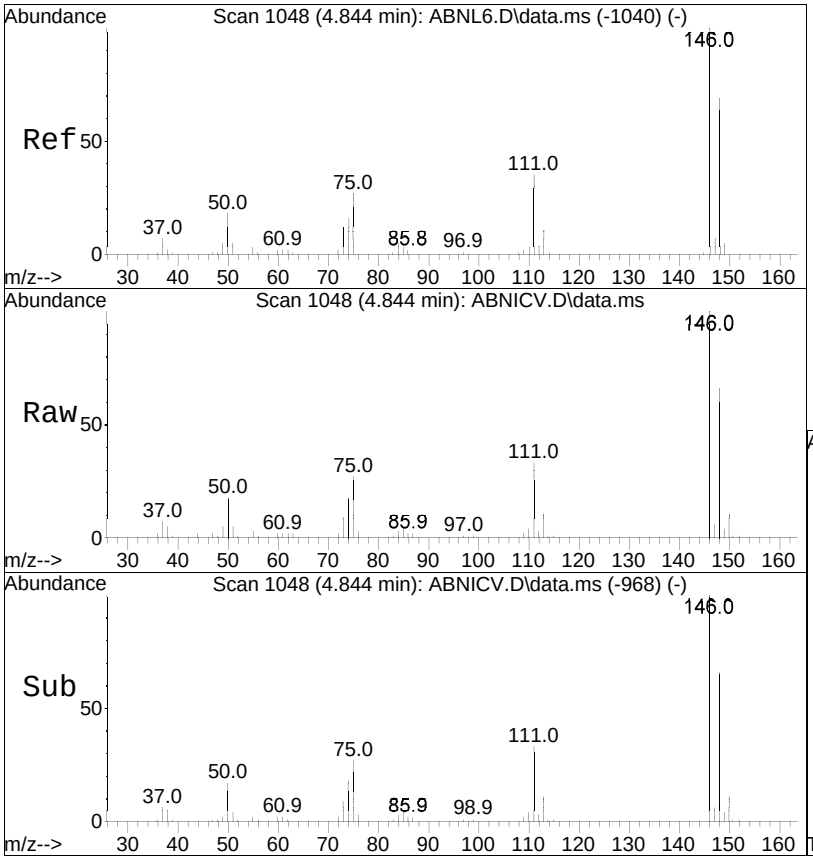


#10
1,3-Dichlorobenzene
Concen: 5.32 ug/ml
RT: 4.773 min Scan# 1025
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:146 Resp: 55792

Ion	Ratio	Lower	Upper
146	100		
111	35.6	34.3	51.5
148	66.9	50.8	76.2

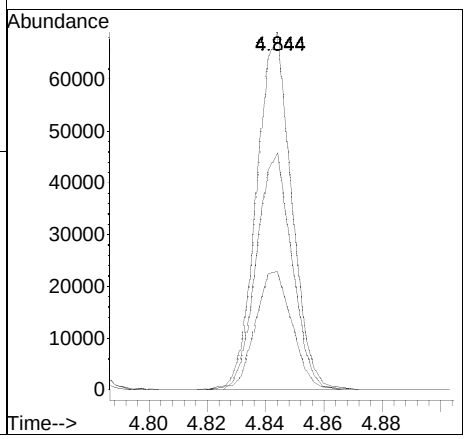


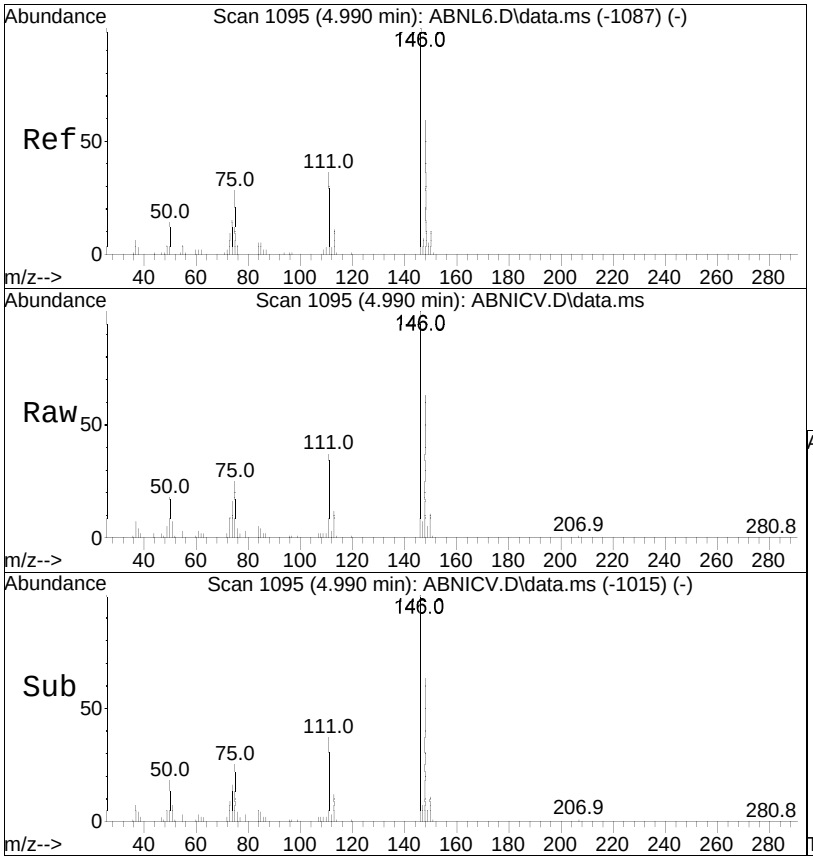


#11
1,4-Dichlorobenzene
Concen: 5.49 ug/ml
RT: 4.844 min Scan# 1048
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:146 Resp: 57153

Ion	Ratio	Lower	Upper
146	100		
148	67.3	50.7	76.1
111	35.1	33.4	50.0

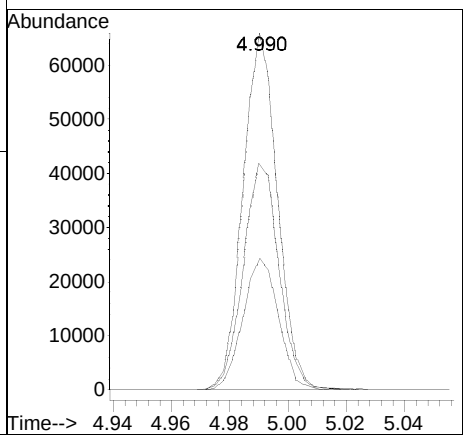


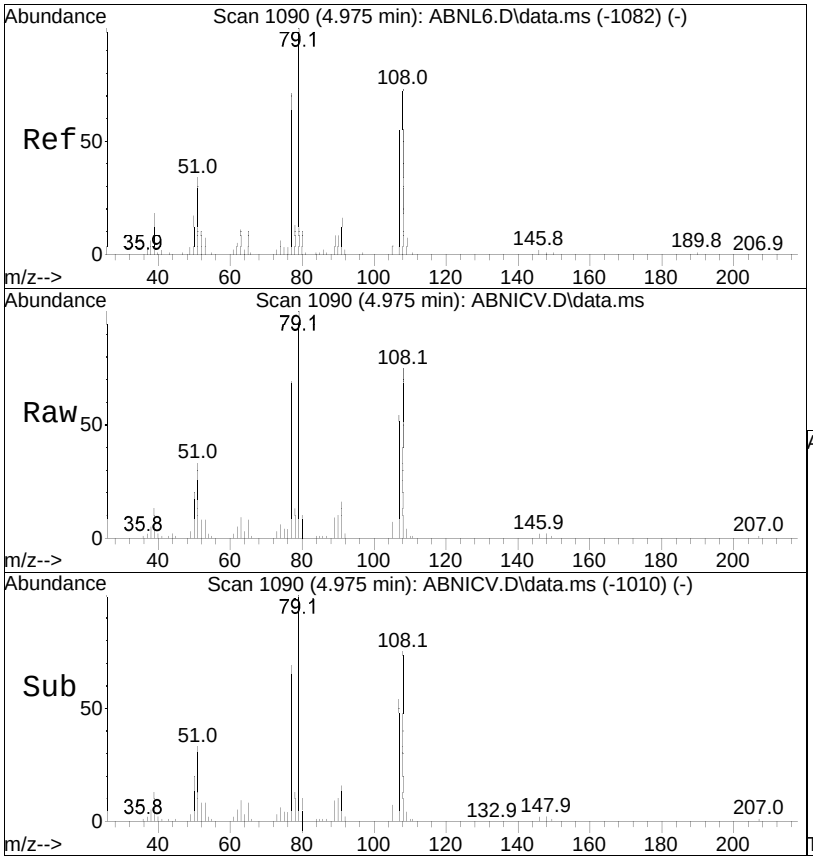


#12
1,2-Dichlorobenzene
Concen: 5.36 ug/ml
RT: 4.990 min Scan# 1095
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:146 Resp: 54014

Ion	Ratio	Lower	Upper
146	100		
111	38.2	34.6	52.0
148	65.8	50.2	75.4

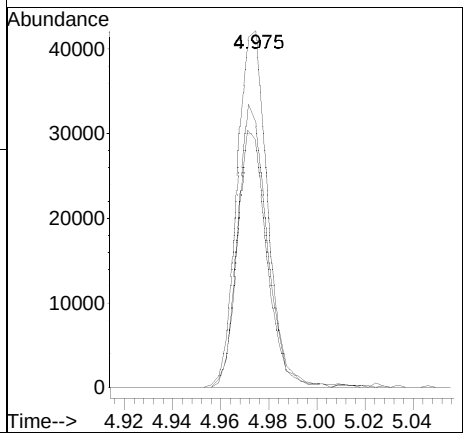


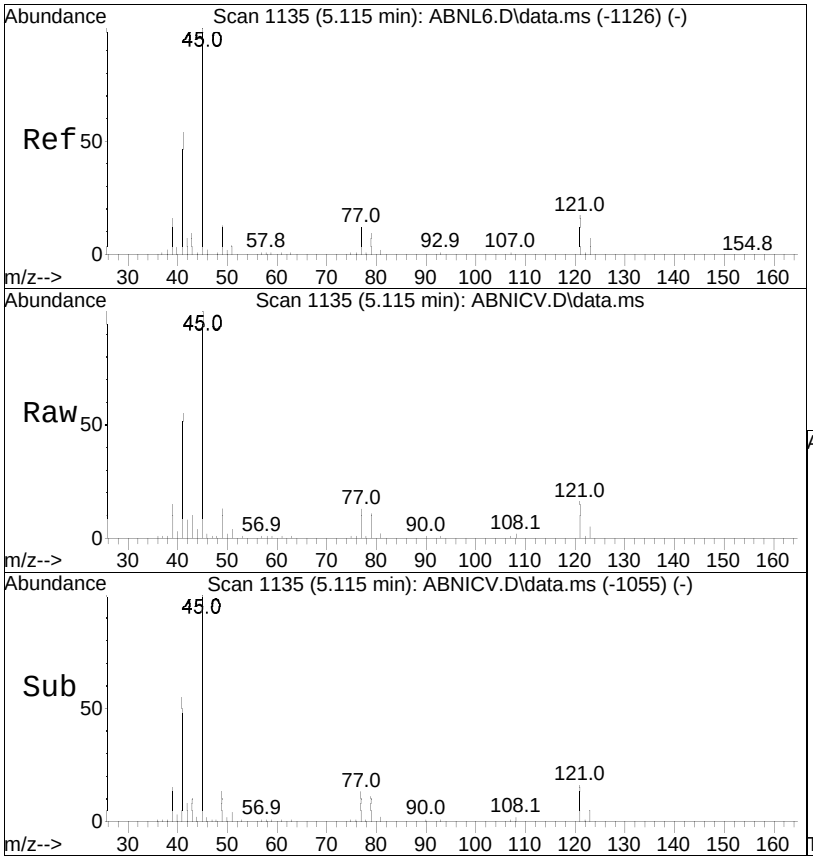


#13
Benzyl alcohol
Concen: 5.51 ug/ml
RT: 4.975 min Scan# 1090
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion: 79 Resp: 37220

Ion	Ratio	Lower	Upper
79	100		
77	69.3	54.9	82.3
108	75.8	63.1	94.7

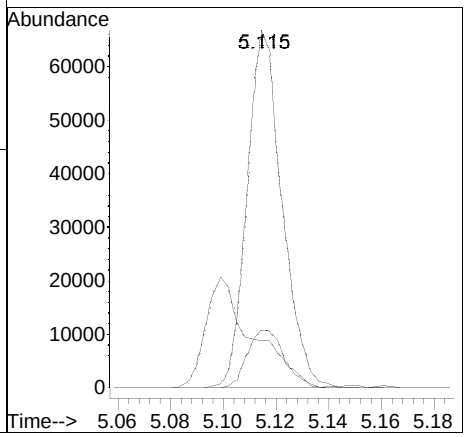


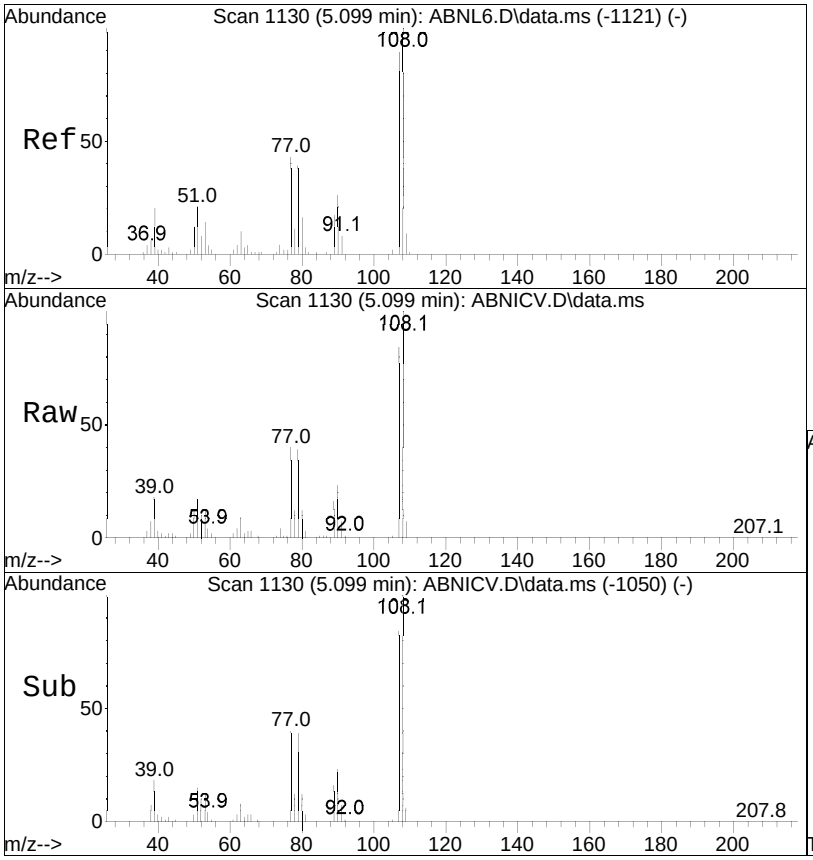


#14
Bis(2-chloroisopropyl)ether
Concen: 5.24 ug/ml
RT: 5.115 min Scan# 1135
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion: 45 Resp: 61063

Ion	Ratio	Lower	Upper
45	100		
121	17.2	9.8	14.6#
77	41.7	6.1	9.1#

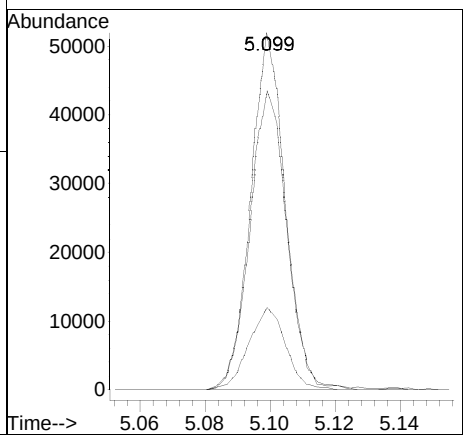


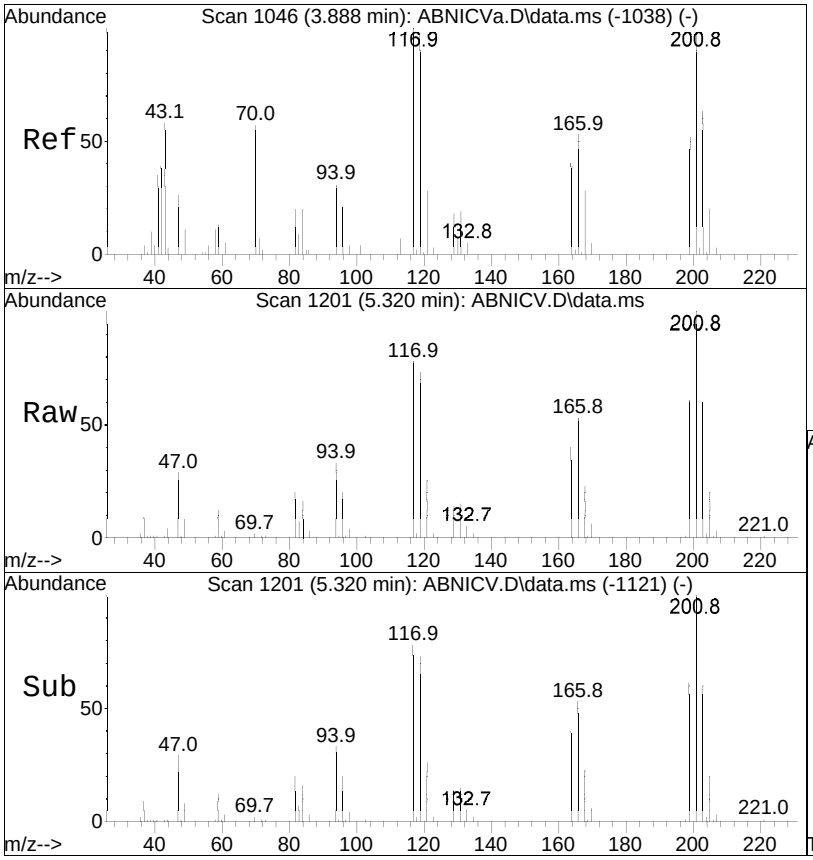


#15
2-Methylphenol
Concen: 5.53 ug/ml
RT: 5.099 min Scan# 1130
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:108 Resp: 38265

Ion	Ratio	Lower	Upper
108	100		
107	89.4	70.7	106.1
90	24.6	18.7	28.1

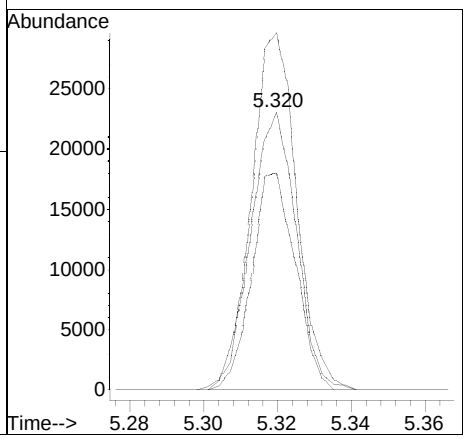


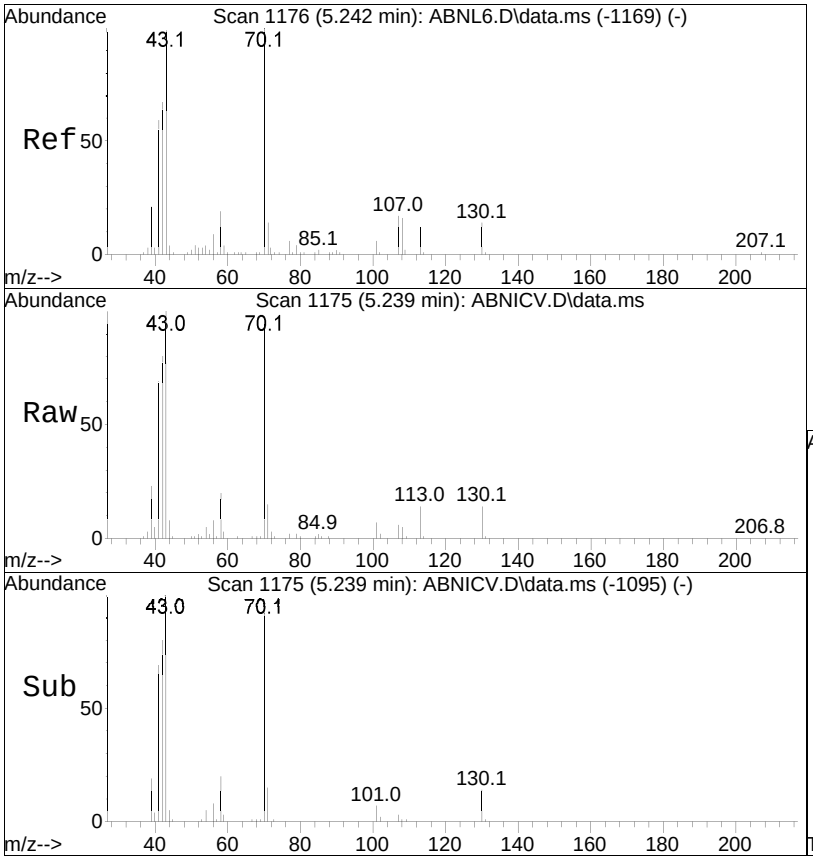


#16
Hexachloroethane
Concen: 5.32 ug/ml
RT: 5.320 min Scan# 1201
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:117 Resp: 19824

Ion	Ratio	Lower	Upper
117	100		
201	126.3	58.6	87.8#
199	74.5	36.9	55.3#

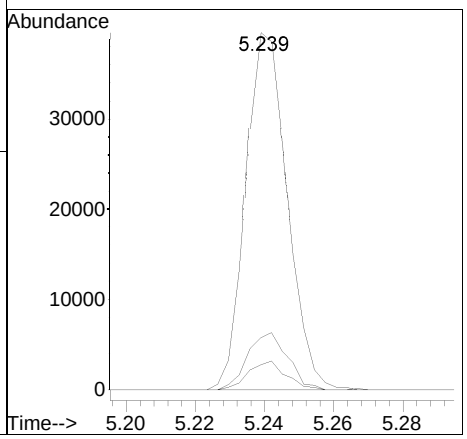


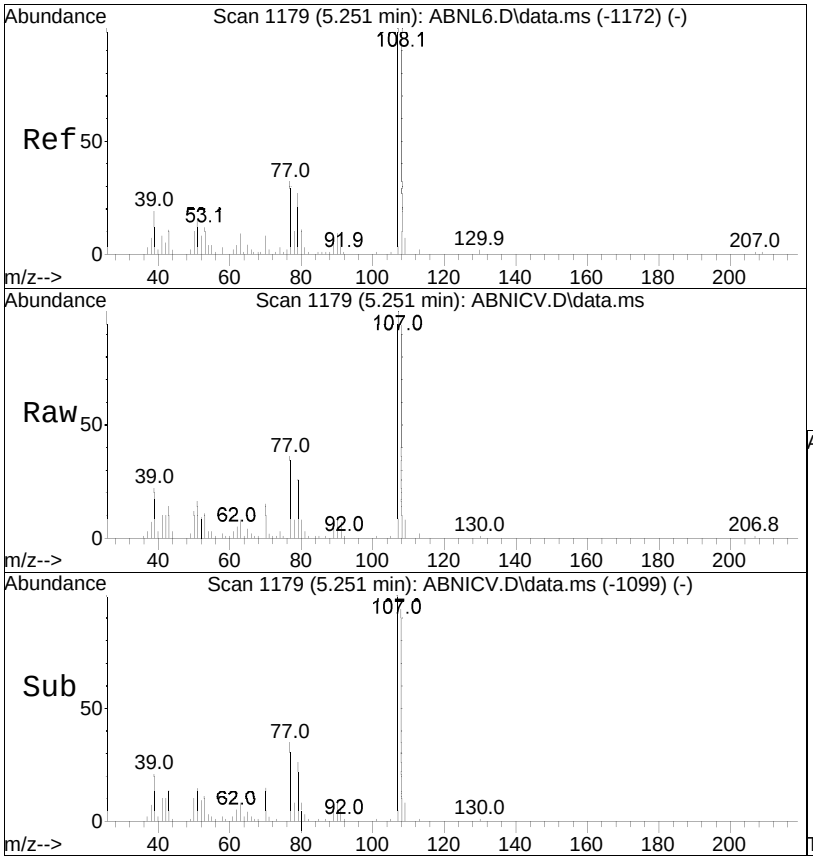


#17
n-Nitrosodi-n-propylamine
Concen: 5.30 ug/ml
RT: 5.239 min Scan# 1175
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion: 70 Resp: 32937

Ion	Ratio	Lower	Upper
70	100		
130	15.4	18.2	27.4#
101	7.3	7.8	11.8#

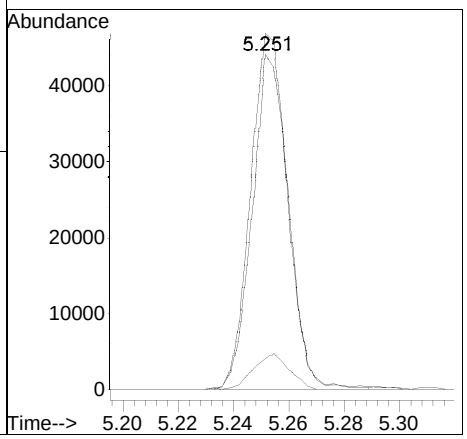


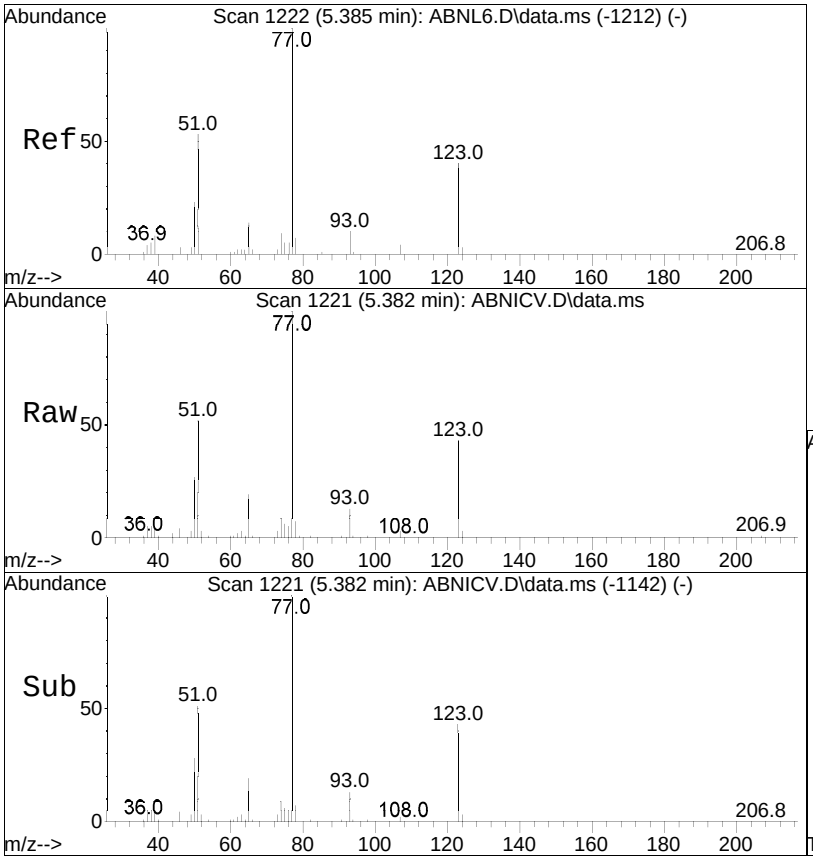


#18
3-Methylphenol/4-Methylphenol
Concen: 5.27 ug/ml
RT: 5.251 min Scan# 1179
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:108 Resp: 39769

Ion	Ratio	Lower	Upper
108	100		
107	110.5	88.6	132.8
90	10.8	8.8	13.2

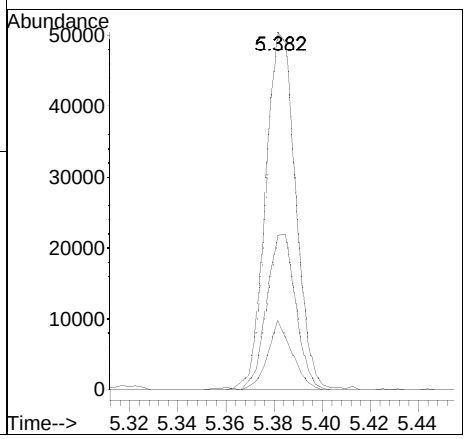


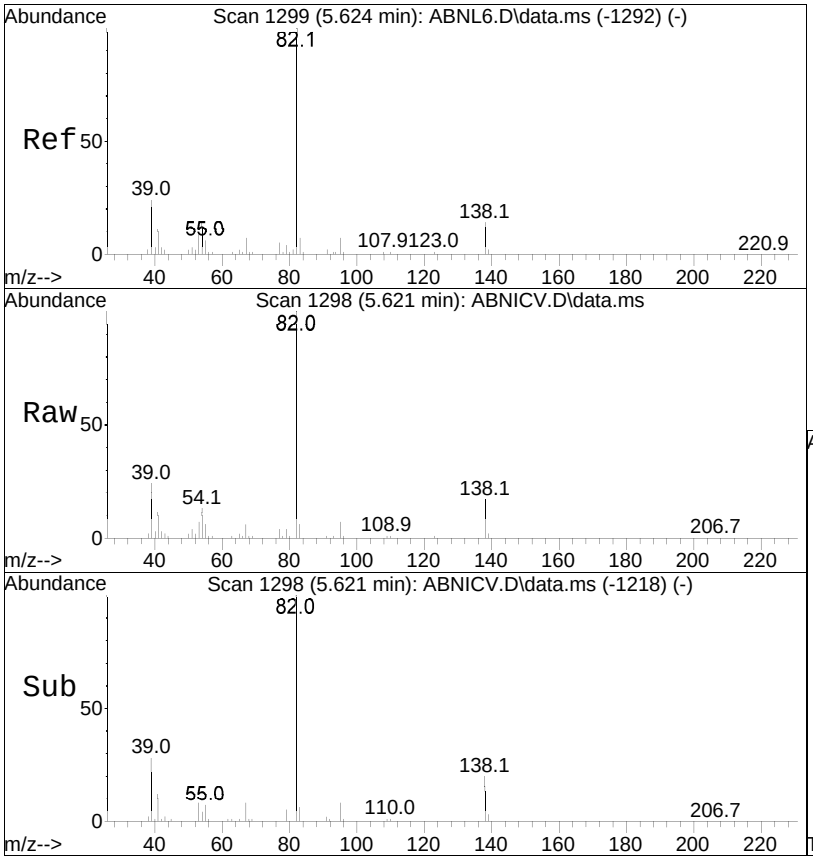


#20
Nitrobenzene
Concen: 5.45 ug/ml
RT: 5.382 min Scan# 1221
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion: 77 Resp: 43606

Ion	Ratio	Lower	Upper
77	100		
123	41.8	36.3	54.5
65	15.9	11.6	17.4

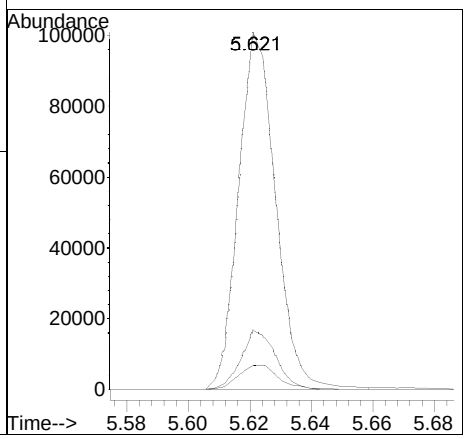


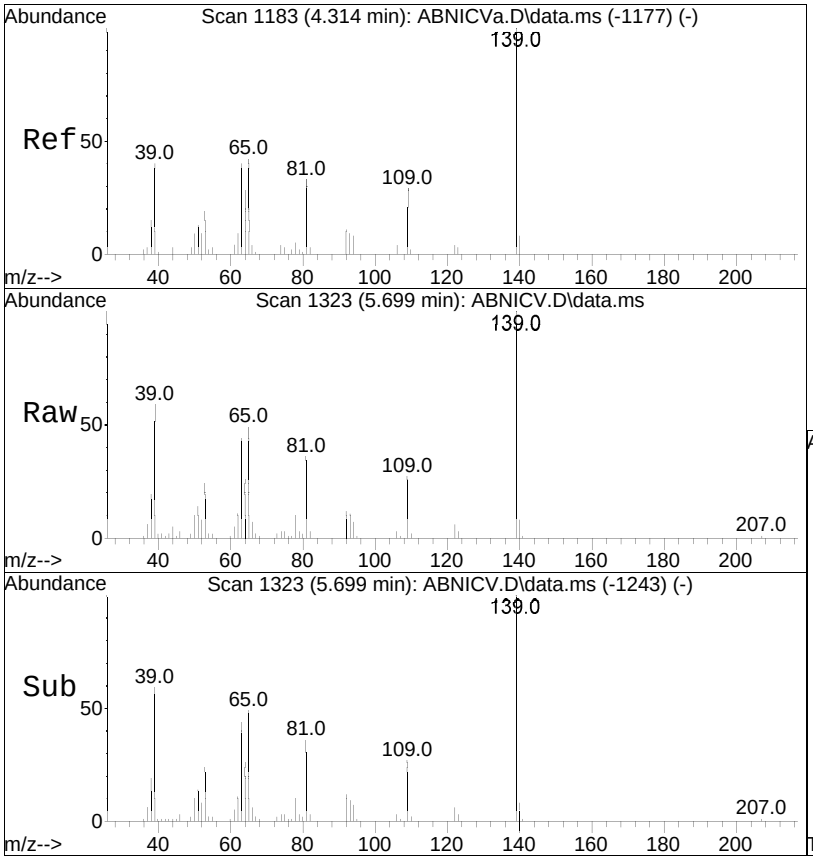


#21
Isophorone
Concen: 5.41 ug/ml
RT: 5.621 min Scan# 1298
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion: 82 Resp: 83894

Ion	Ratio	Lower	Upper
82	100		
138	15.7	14.7	22.1
95	7.3	5.2	7.8

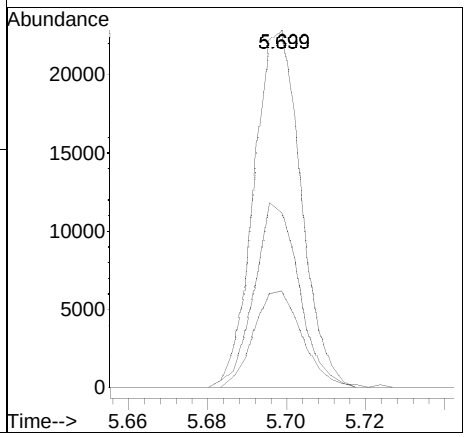


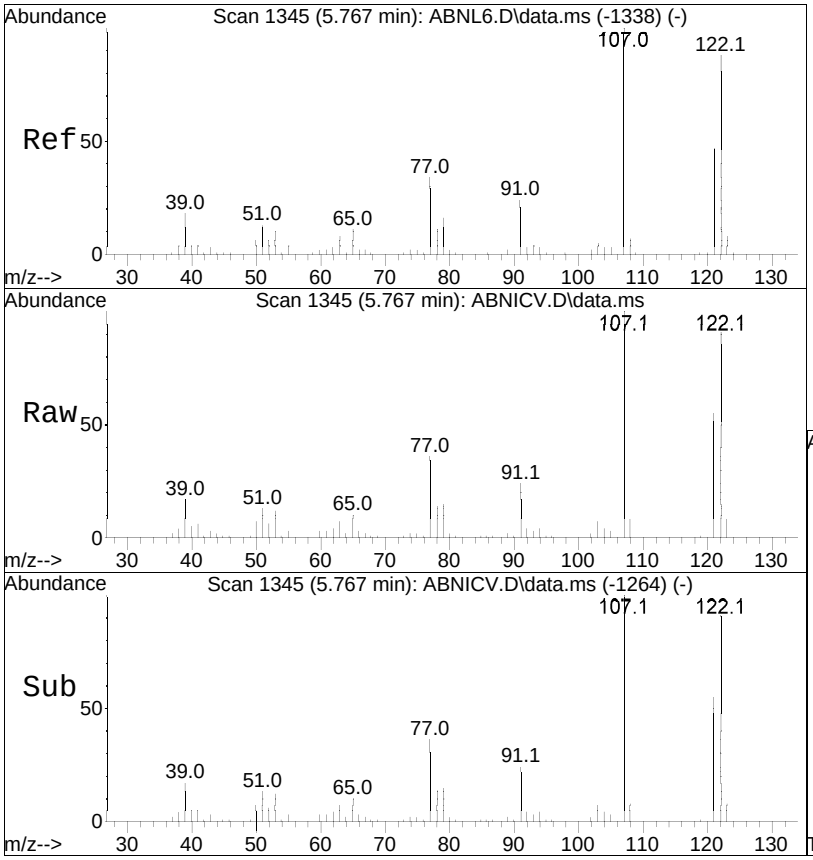


#22
2-Nitrophenol
Concen: 5.15 ug/ml
RT: 5.699 min Scan# 1323
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:139 Resp: 18839

Ion	Ratio	Lower	Upper
139	100		
109	28.2	19.4	29.0
65	49.4	46.1	69.1

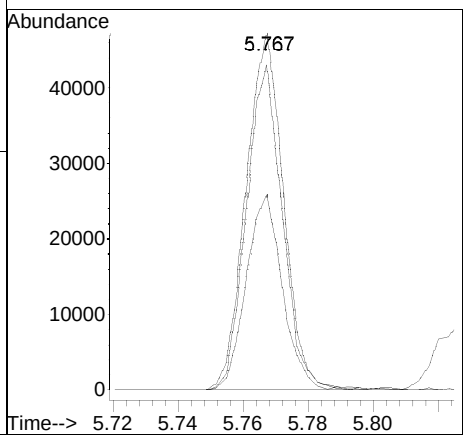


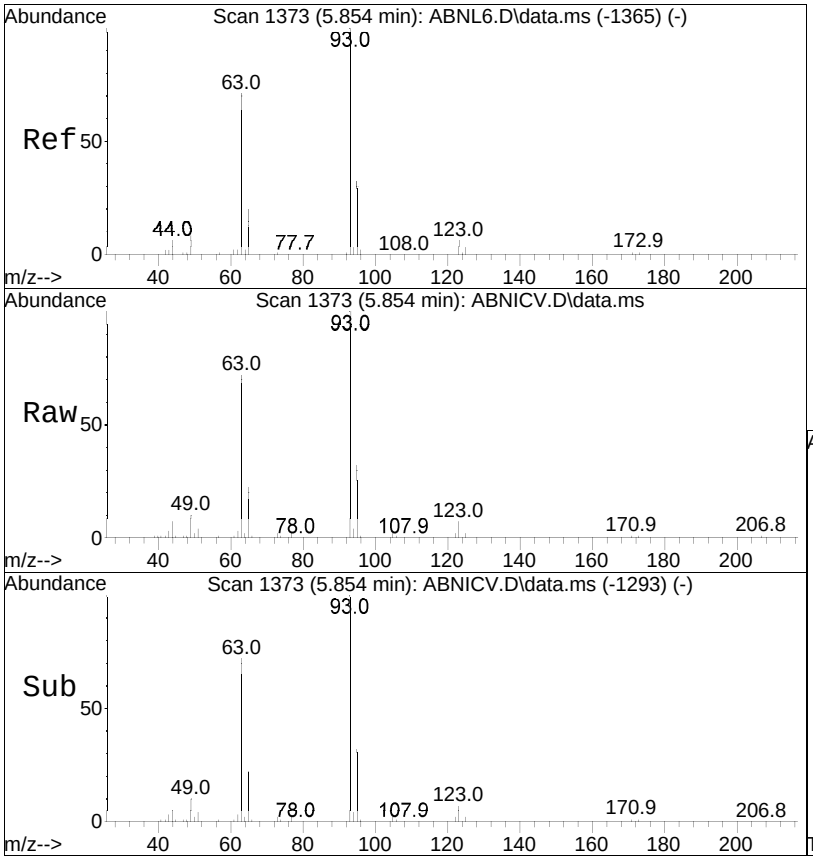


#23
2,4-Dimethylphenol
Concen: 5.25 ug/ml
RT: 5.767 min Scan# 1345
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:107 Resp: 37646

Ion	Ratio	Lower	Upper
107	100		
121	53.1	40.0	60.0
122	86.9	70.2	105.4

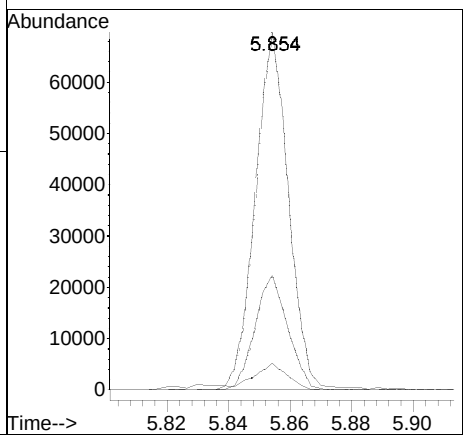


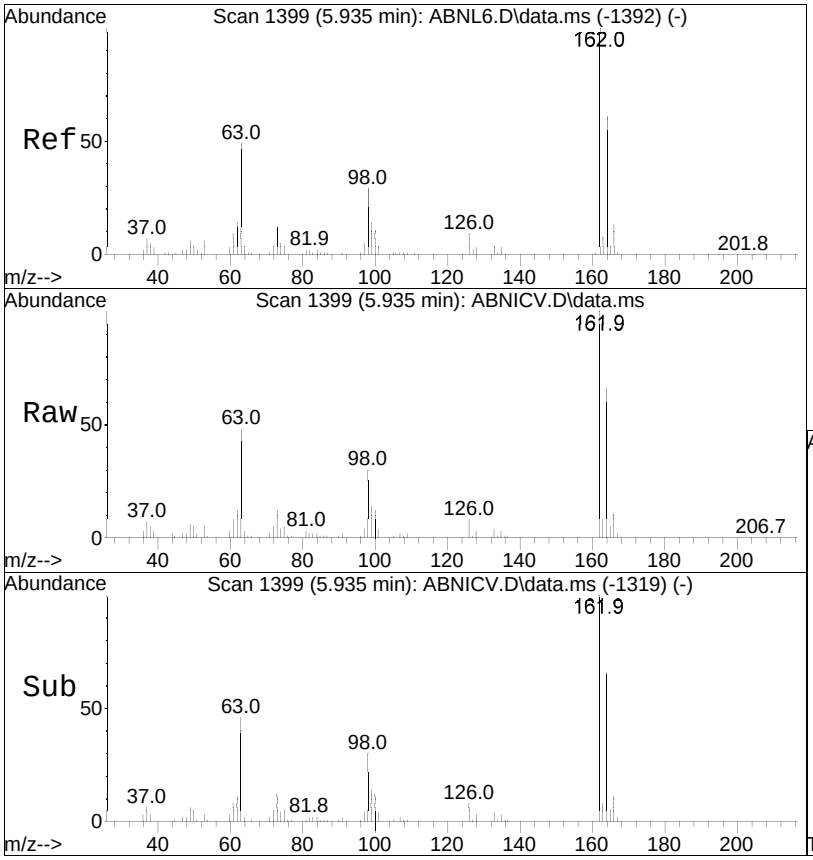


#24
Bis(2-chloroethoxy)methane
Concen: 5.58 ug/ml
RT: 5.854 min Scan# 1373
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion: 93 Resp: 51818

Ion	Ratio	Lower	Upper
93	100		
95	31.8	25.8	38.8
123	7.2	10.1	15.1#

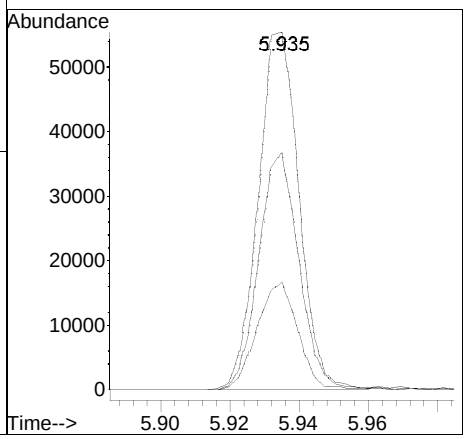


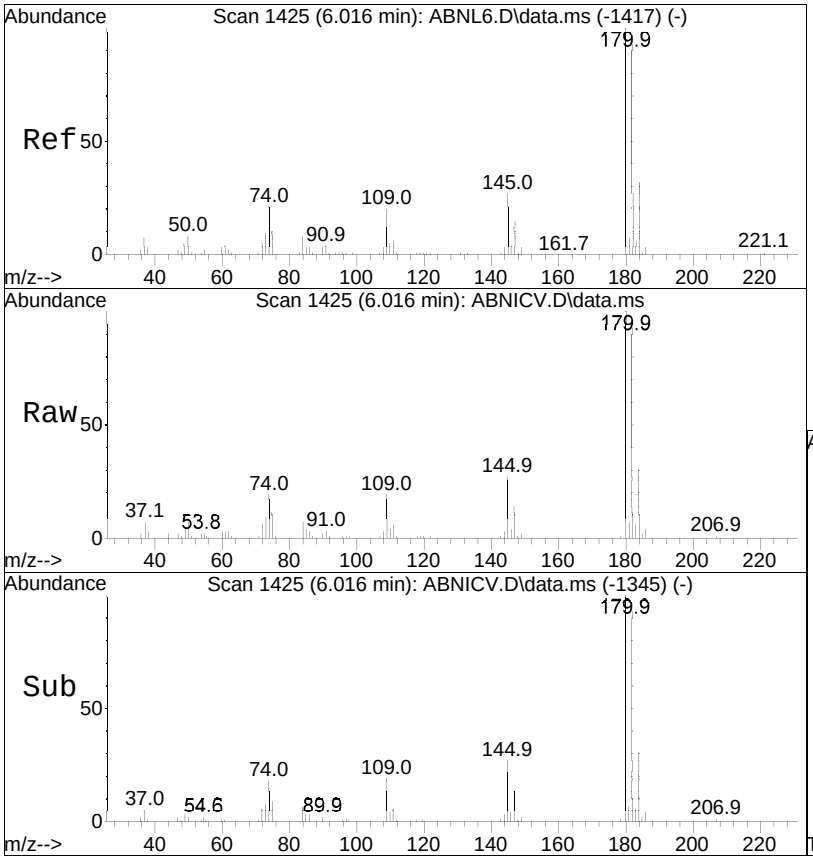


#25
2,4-Dichlorophenol
Concen: 5.41 ug/ml
RT: 5.935 min Scan# 1399
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:162 Resp: 44941

Ion	Ratio	Lower	Upper
162	100		
164	65.6	51.0	76.4
98	30.3	32.2	48.2#

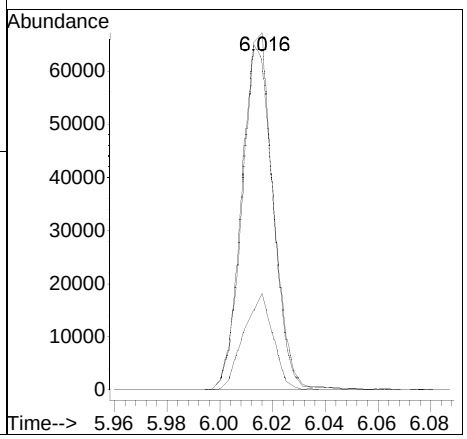


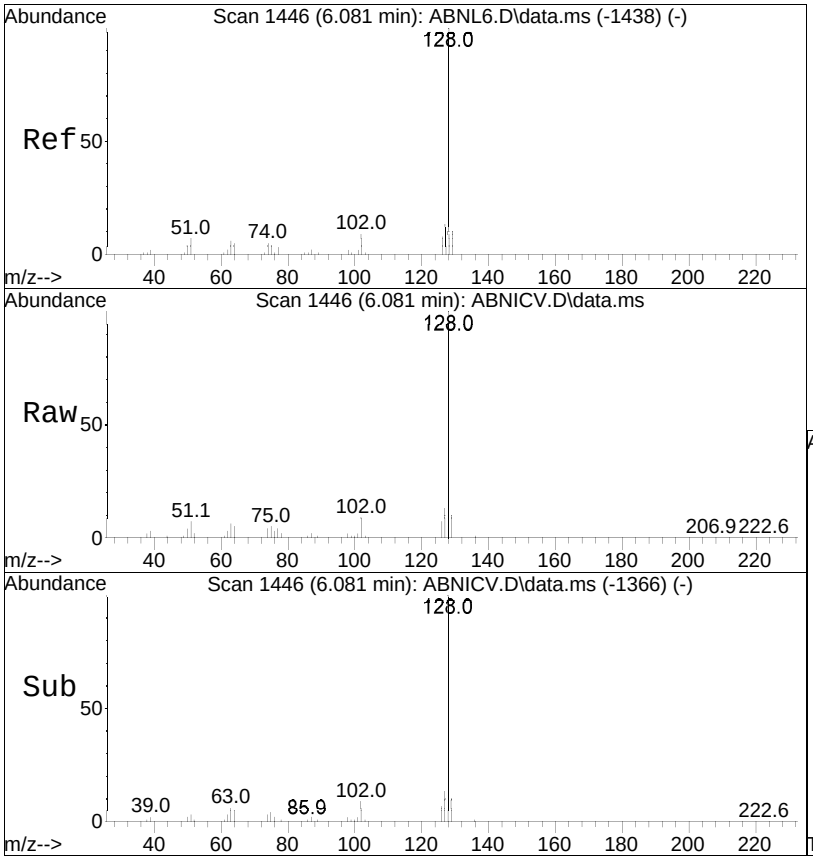


#26
1,2,4-Trichlorobenzene
Concen: 5.59 ug/ml
RT: 6.016 min Scan# 1425
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:180 Resp: 55744

Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.0	114.0
145	25.3	25.7	38.5#

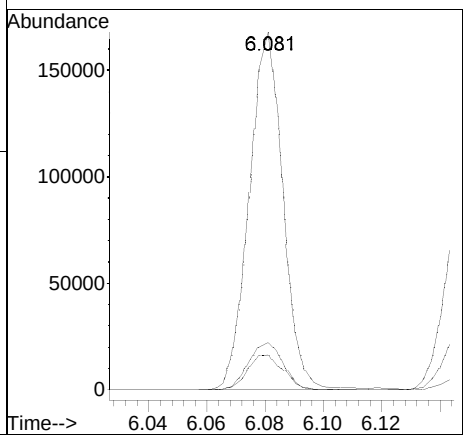


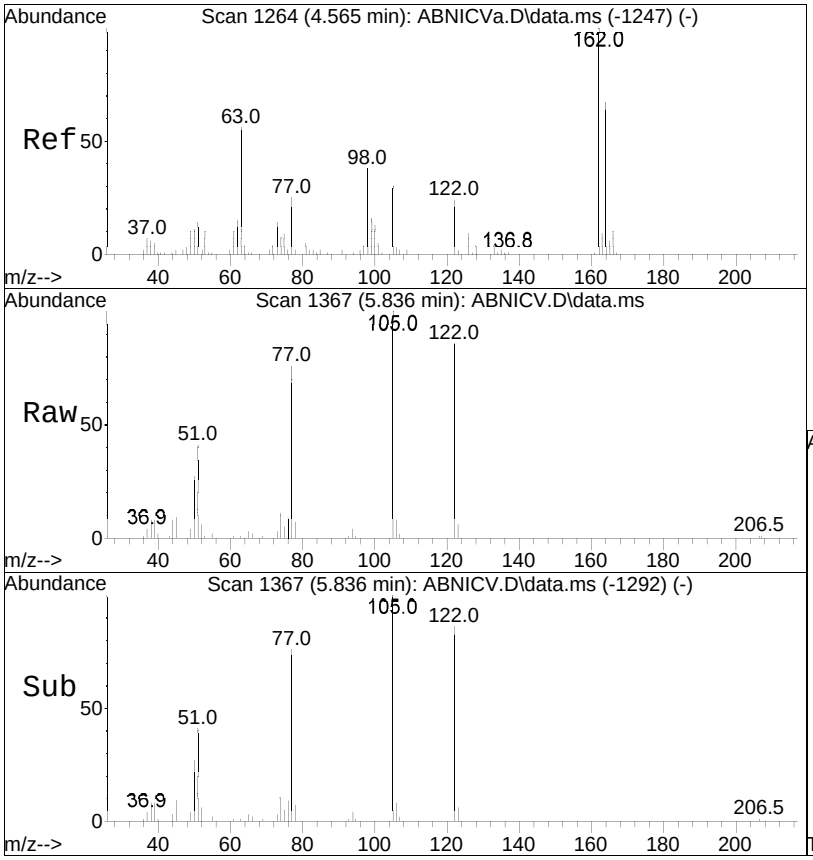


#36
Naphthalene
Concen: 5.21 ug/ml
RT: 6.081 min Scan# 1446
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:128 Resp: 134653

Ion	Ratio	Lower	Upper
128	100		
129	10.4	8.7	13.1
127	13.8	10.3	15.5

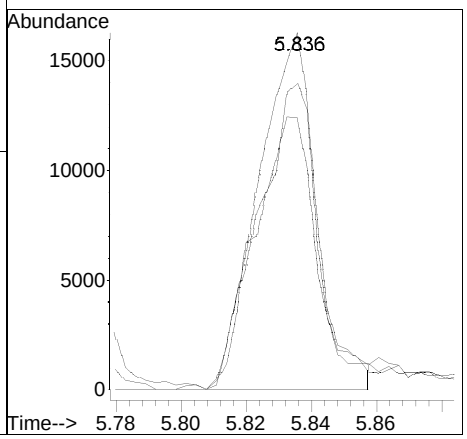


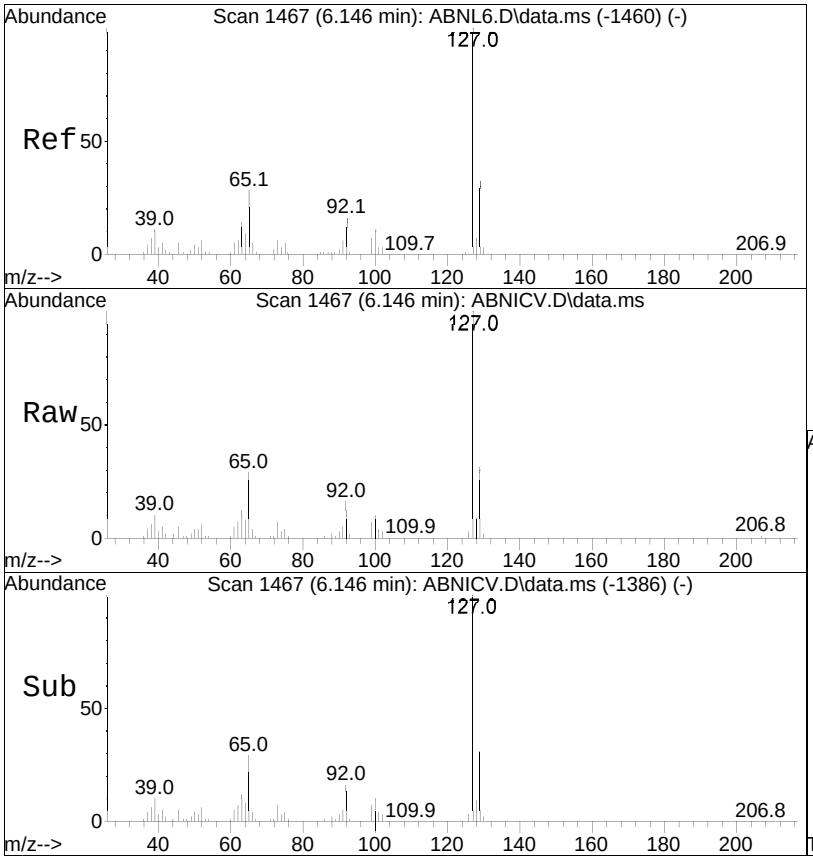


#37
Benzoic Acid
Concen: 4.29 ug/ml
RT: 5.836 min Scan# 1367
Delta R.T. -0.015 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:105 Resp: 20208

Ion	Ratio	Lower	Upper
105	100		
122	89.6	59.9	89.9
77	83.4	60.1	90.1

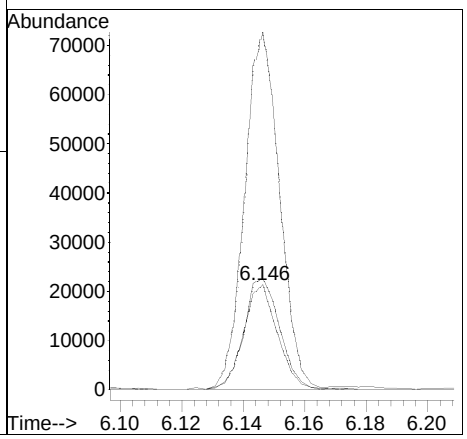


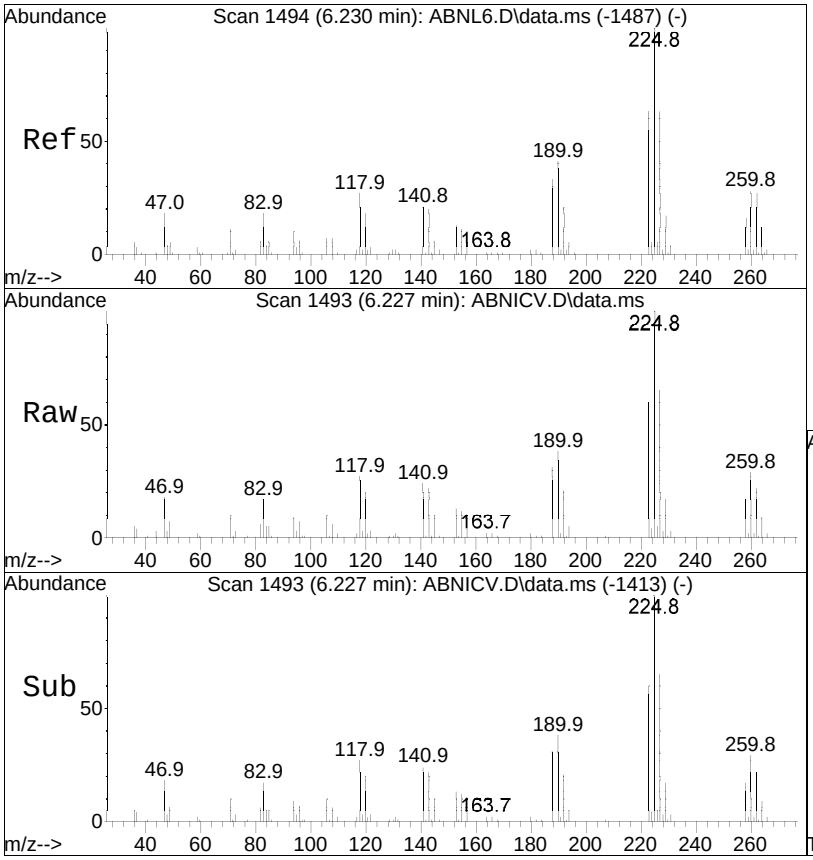


#38
4-Chloroaniline
Concen: 5.18 ug/ml
RT: 6.146 min Scan# 1467
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion: 65 Resp: 16371

Ion	Ratio	Lower	Upper
65	100		
127	348.0	237.6	356.4
129	110.7	76.3	114.5

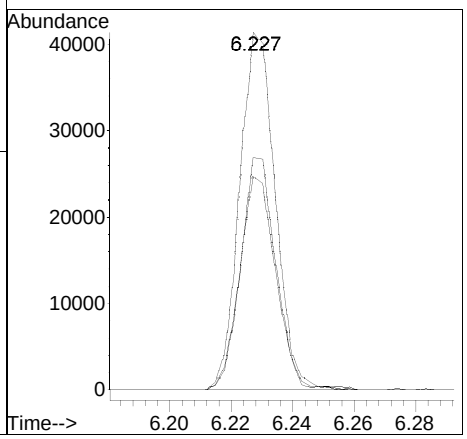


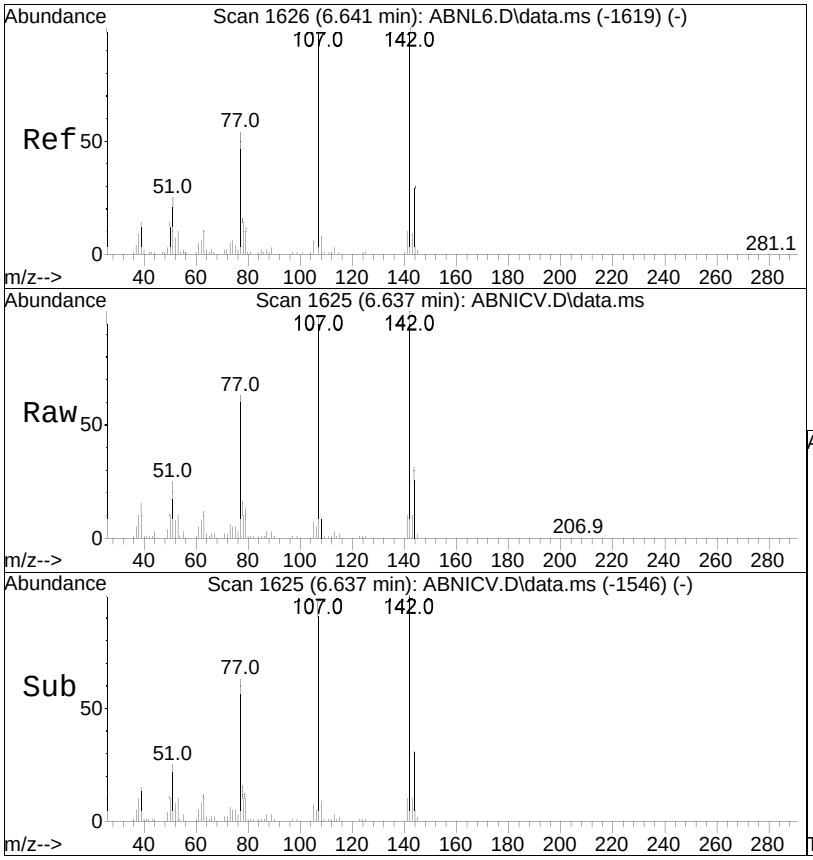


#39
Hexachlorobutadiene
Concen: 5.45 ug/ml
RT: 6.227 min Scan# 1493
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:225 Resp: 33265

Ion	Ratio	Lower	Upper
225	100		
223	60.8	50.3	75.5
227	64.0	52.2	78.2

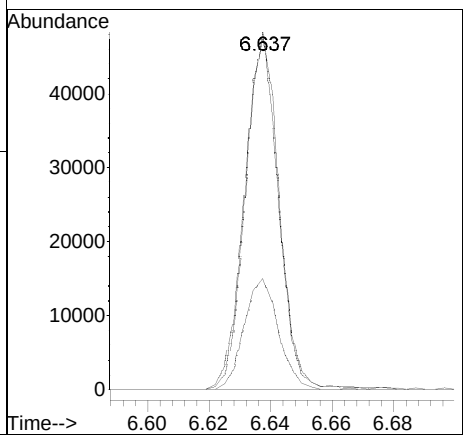


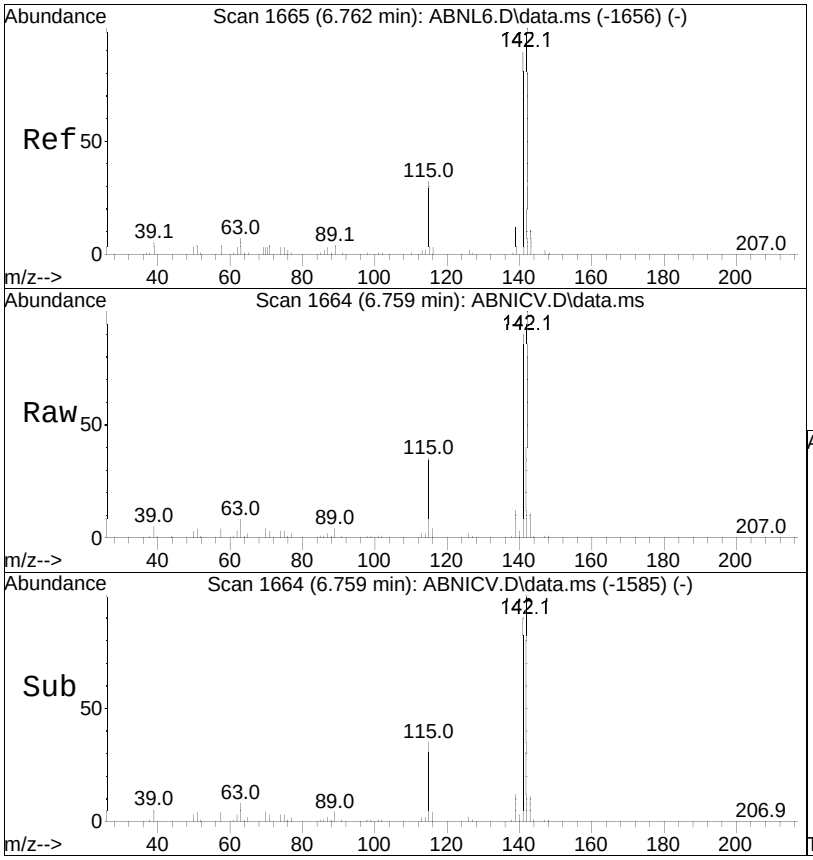


#40
p-Chloro-m-cresol
Concen: 5.32 ug/ml
RT: 6.637 min Scan# 1625
Delta R.T. -0.004 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:107 Resp: 37190

Ion	Ratio	Lower	Upper
107	100		
144	31.0	20.9	31.3
142	94.9	66.1	99.1

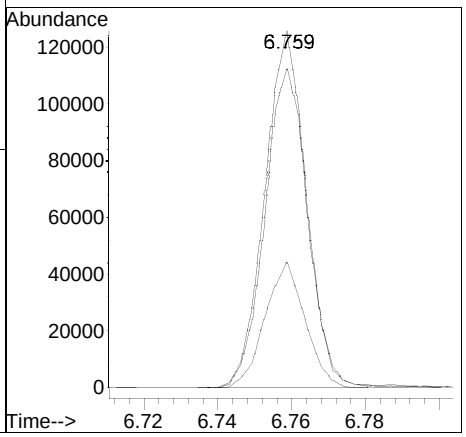


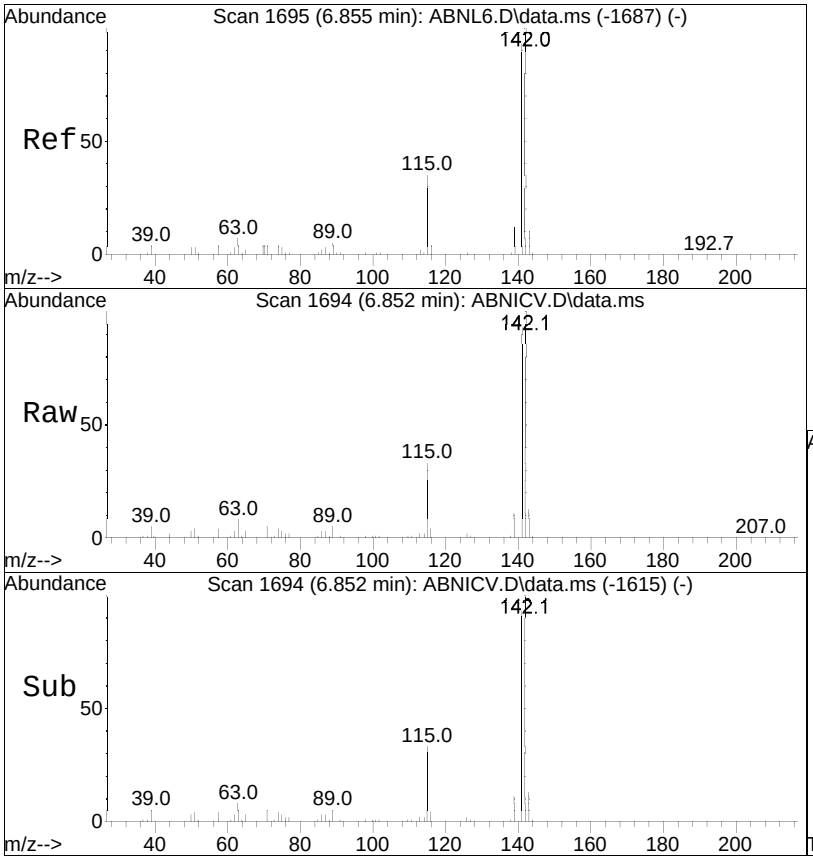


#41
2-Methylnaphthalene
Concen: 5.31 ug/ml
RT: 6.759 min Scan# 1664
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:142 Resp: 98236

Ion	Ratio	Lower	Upper
142	100		
141	92.0	69.6	104.4
115	34.4	26.6	40.0

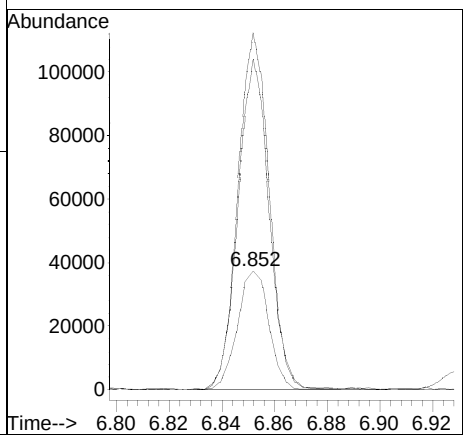


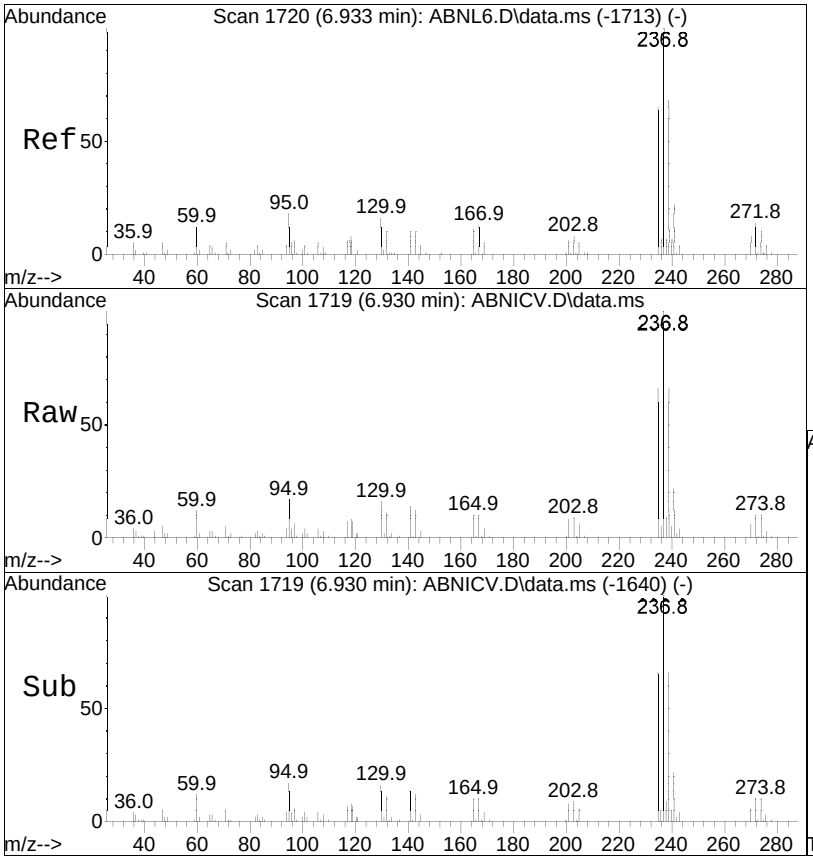


#42
1-Methylnaphthalene
Concen: 5.02 ug/ml
RT: 6.852 min Scan# 1694
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:115 Resp: 30983

Ion	Ratio	Lower	Upper
115	100		
141	272.4	207.8	311.6
142	296.0	226.8	340.2

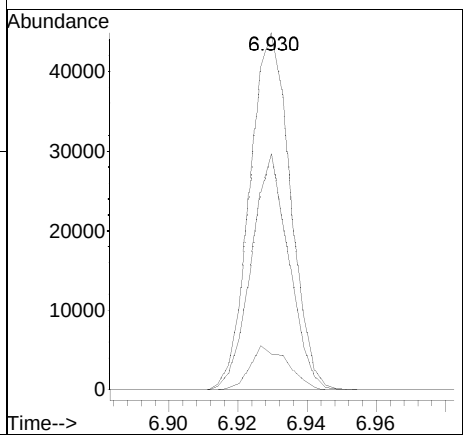


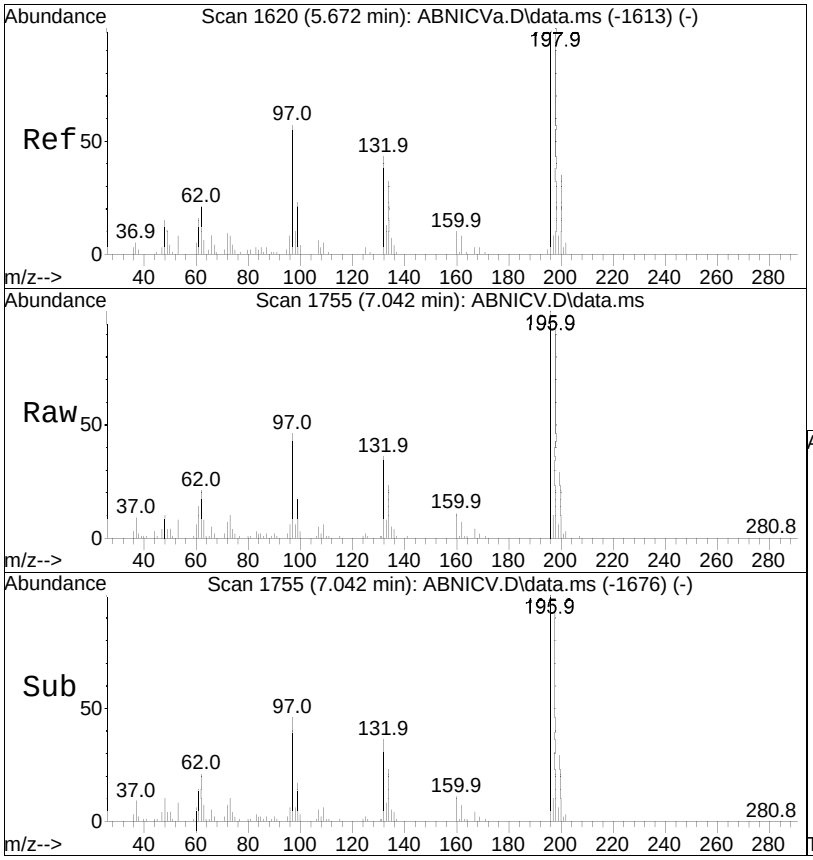


#43
Hexachlorocyclopentadiene
Concen: 5.66 ug/ml
RT: 6.930 min Scan# 1719
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:237 Resp: 36600

Ion	Ratio	Lower	Upper
237	100		
235	61.7	49.7	74.5
272	11.6	9.8	14.6

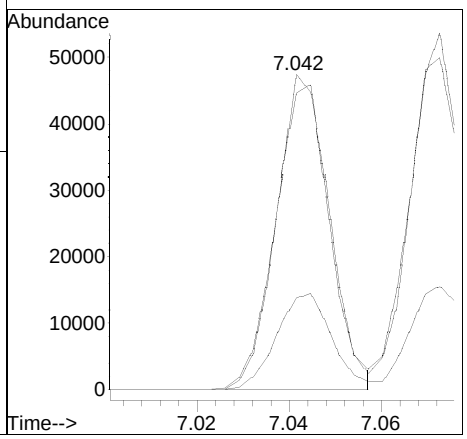


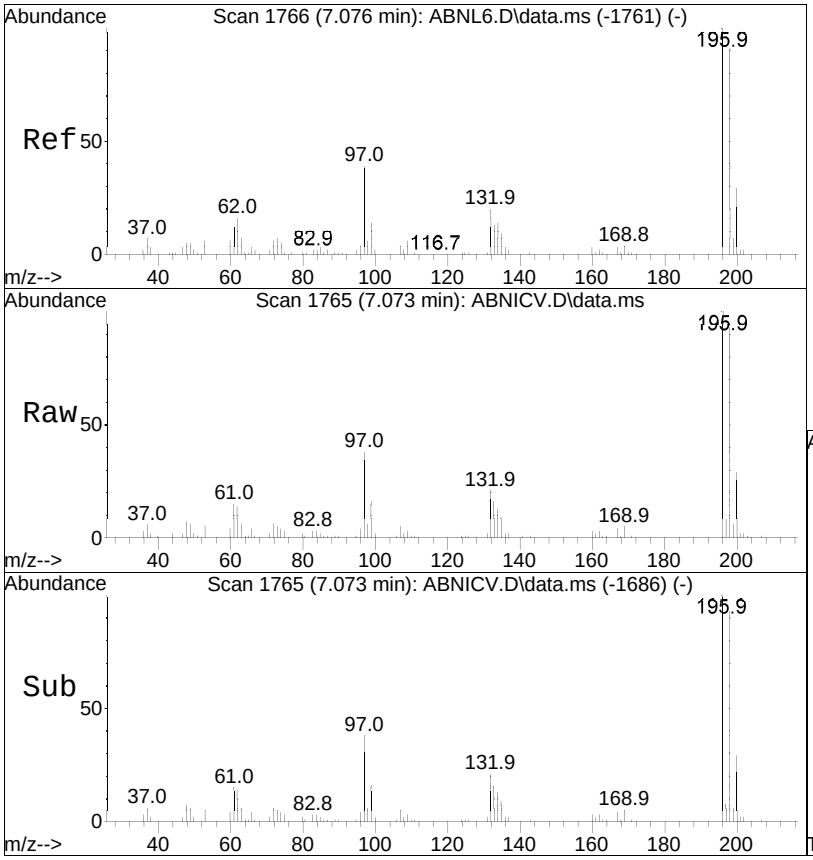


#44
2,4,6-Trichlorophenol
Concen: 5.35 ug/ml
RT: 7.042 min Scan# 1755
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:196 Resp: 38248

Ion	Ratio	Lower	Upper
196	100		
198	96.4	77.5	116.3
200	31.4	23.8	35.6

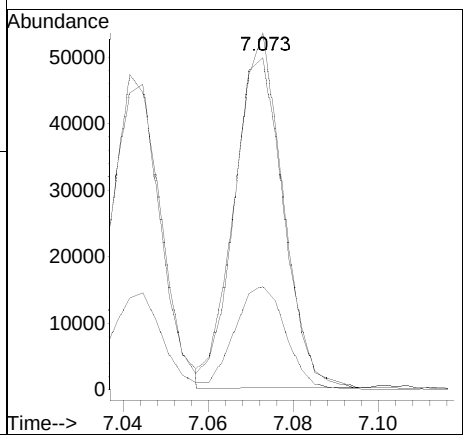


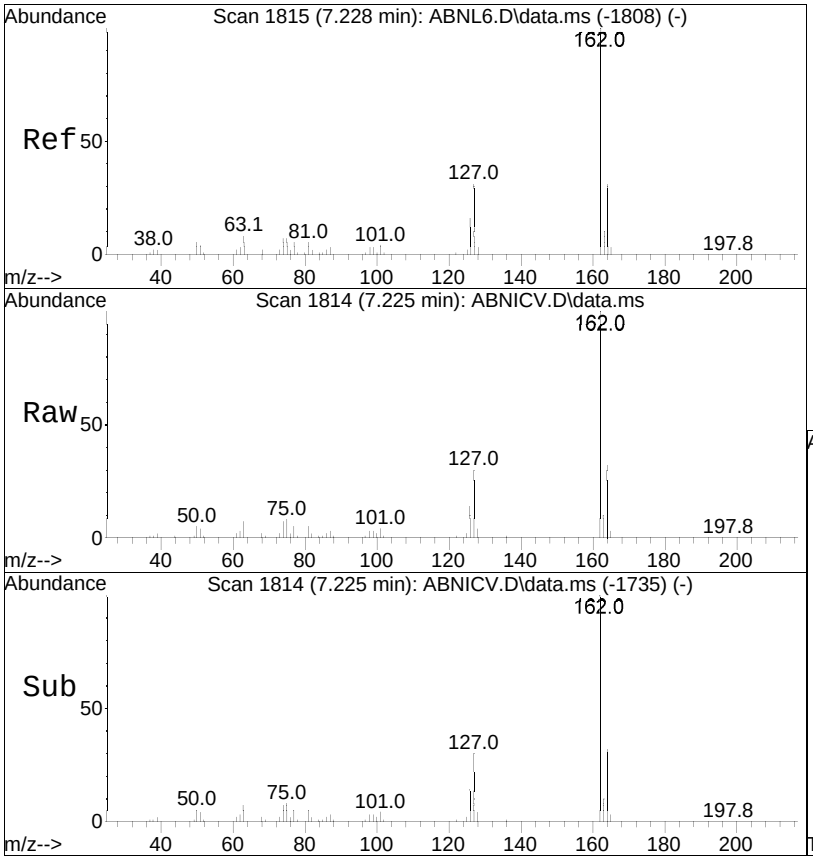


#45
2,4,5-Trichlorophenol
Concen: 5.31 ug/ml
RT: 7.073 min Scan# 1765
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:196 Resp: 41338

Ion	Ratio	Lower	Upper
196	100		
200	31.7	25.4	38.0
198	97.9	78.0	117.0

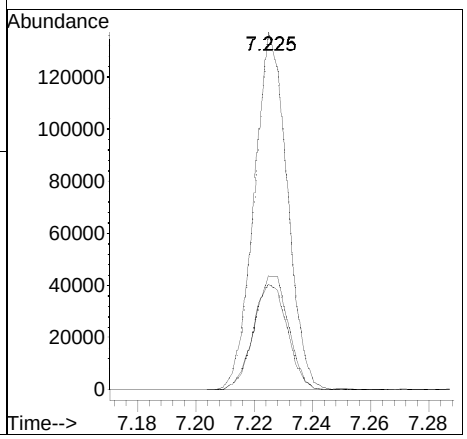


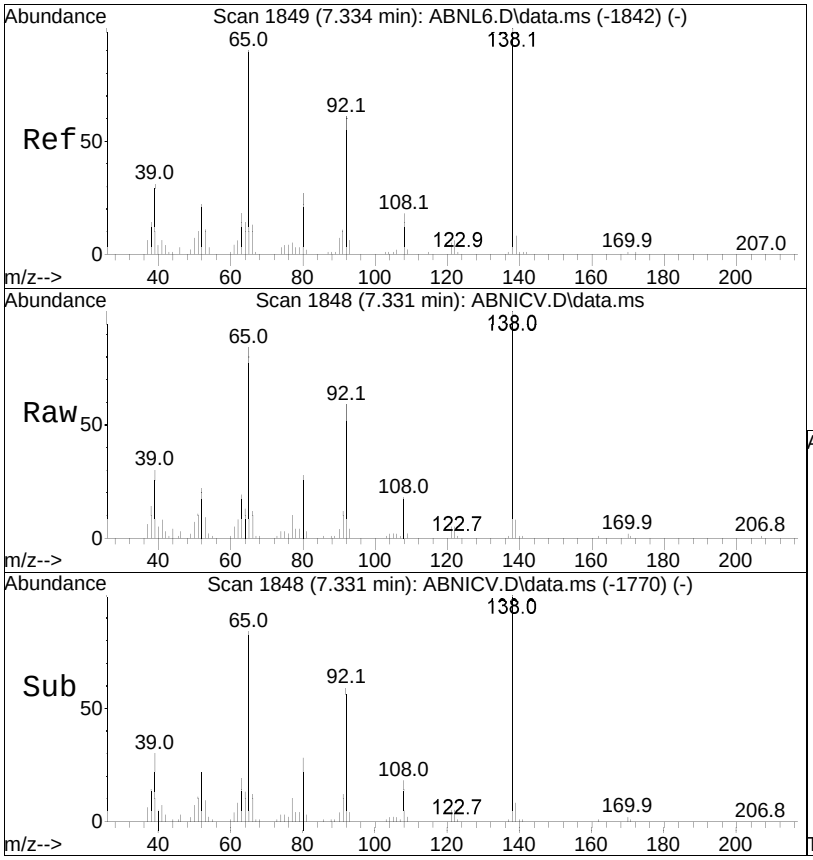


#47
2-Chloronaphthalene
Concen: 5.29 ug/ml
RT: 7.225 min Scan# 1814
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:162 Resp: 107540

Ion	Ratio	Lower	Upper
162	100		
127	31.0	32.2	48.4#
164	33.2	25.7	38.5

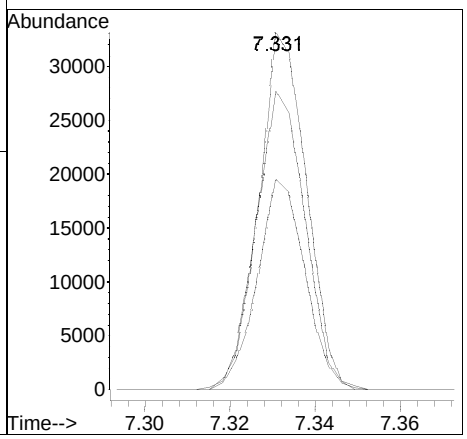


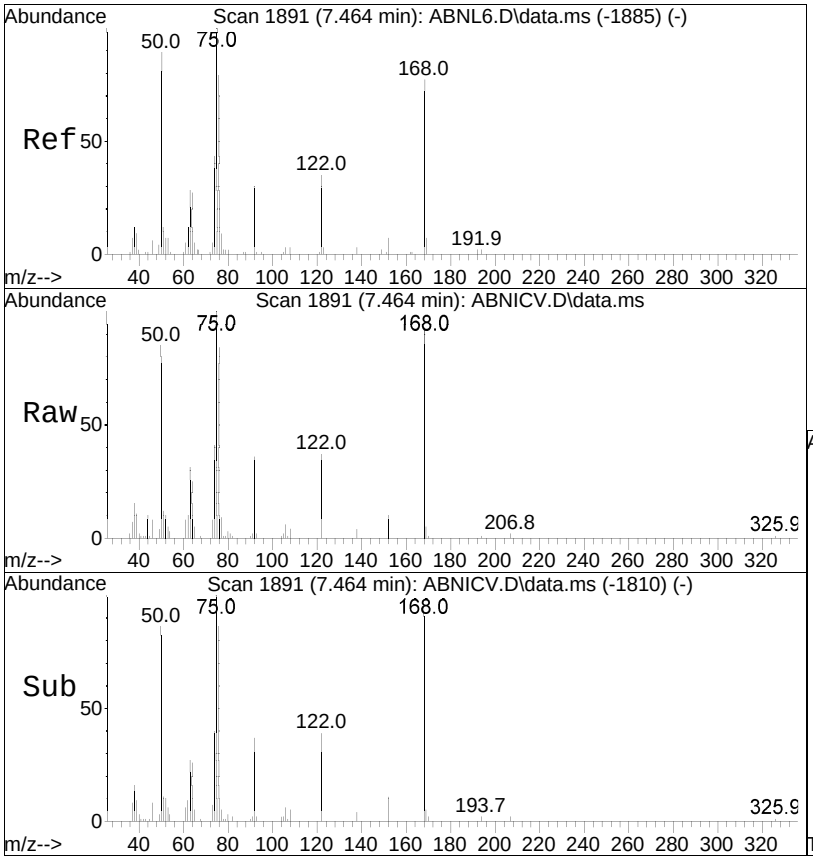


#48
2-Nitroaniline
Concen: 5.36 ug/ml
RT: 7.331 min Scan# 1848
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:138 Resp: 25660

Ion	Ratio	Lower	Upper
138	100		
92	59.1	53.5	80.3
65	86.0	86.3	129.5#

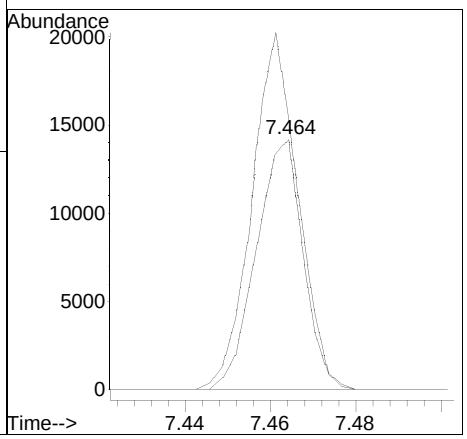


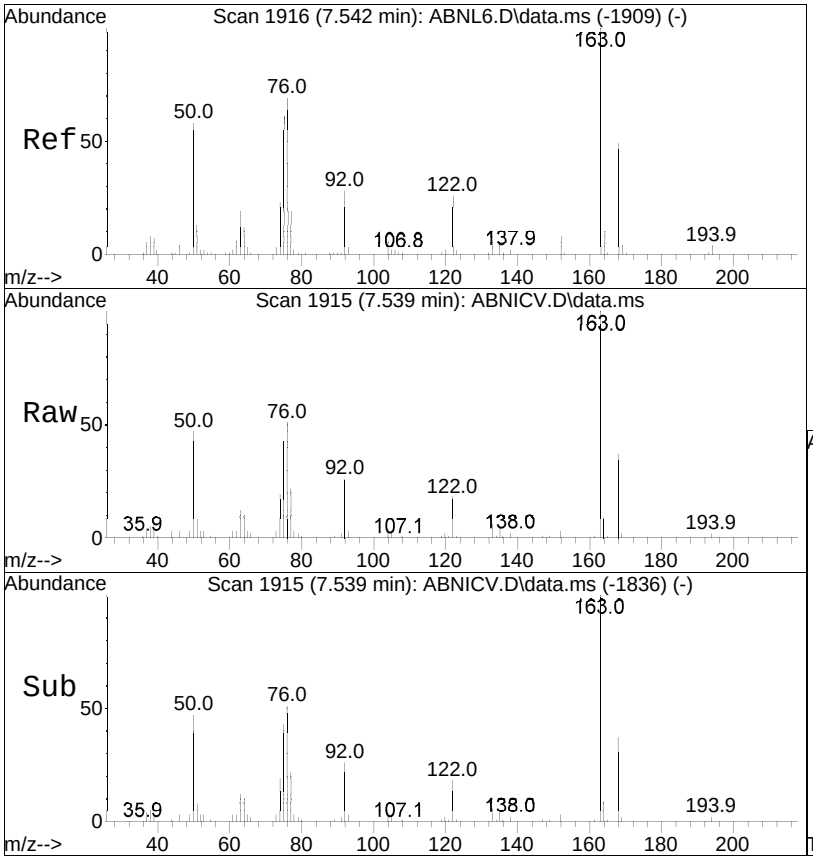


#49
1,4-Dinitrobenzene
Concen: 5.08 ug/ml
RT: 7.464 min Scan# 1891
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:168 Resp: 10826

Ion	Ratio	Lower	Upper
168	100		
75	140.1	121.8	182.8

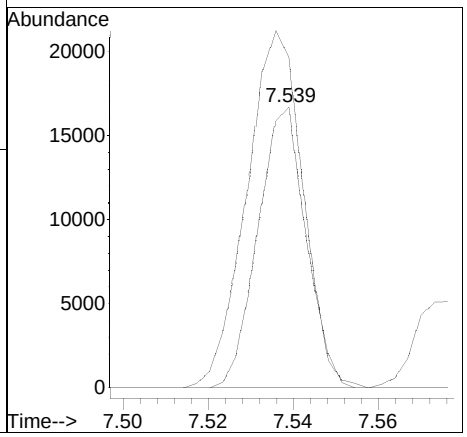


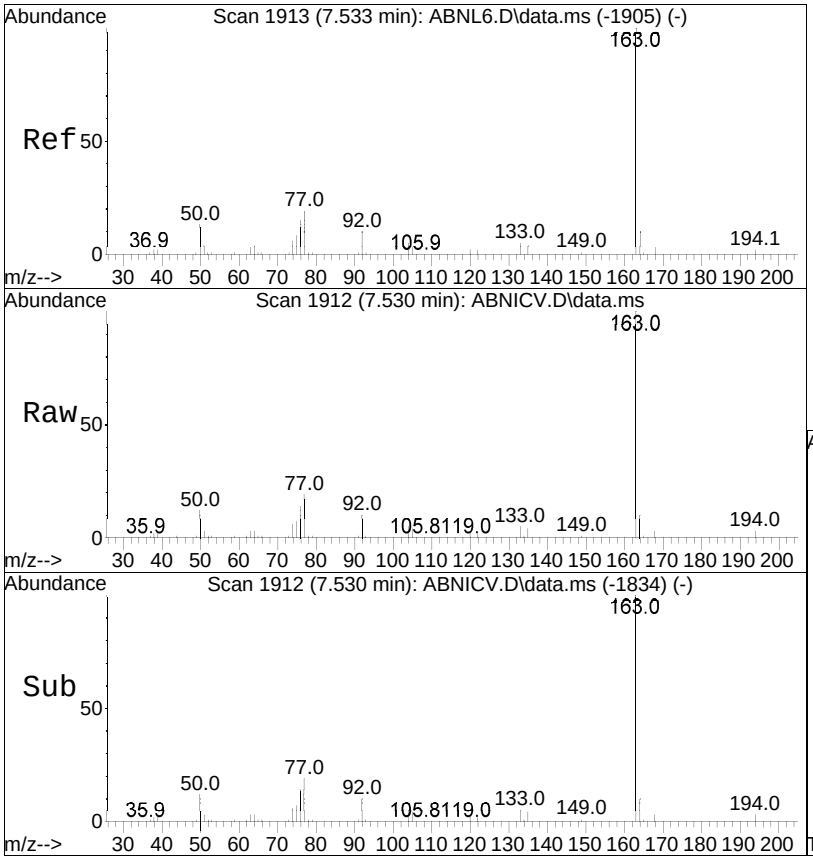


#50
1,3-Dinitrobenzene
Concen: 5.47 ug/ml
RT: 7.539 min Scan# 1915
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:168 Resp: 13074

Ion	Ratio	Lower	Upper
168	100		
75	148.7	22.7	34.1#

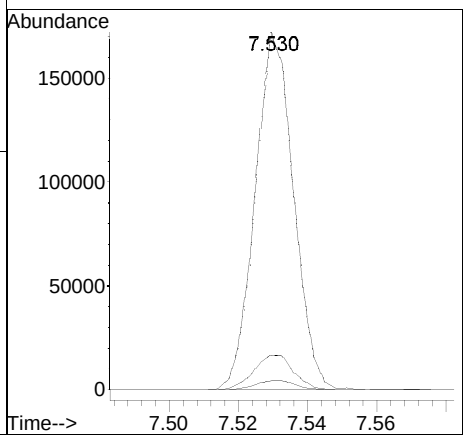


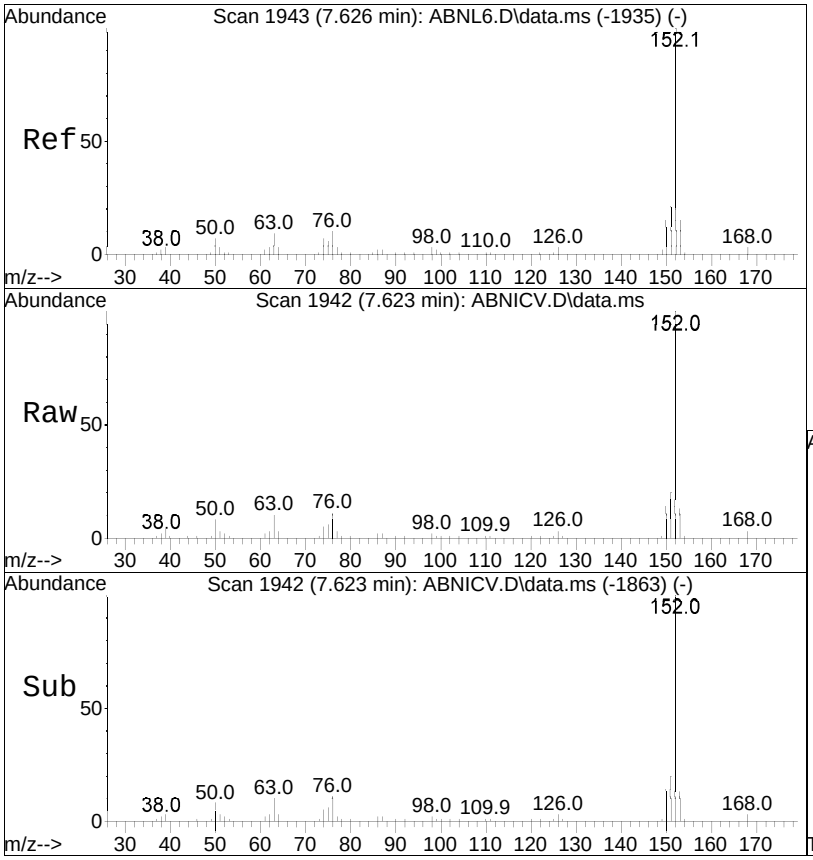


#51
Dimethyl phthalate
Concen: 5.47 ug/ml
RT: 7.530 min Scan# 1912
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:163 Resp: 131396

Ion	Ratio	Lower	Upper
163	100		
194	2.7	3.5	5.3#
164	10.1	7.9	11.9

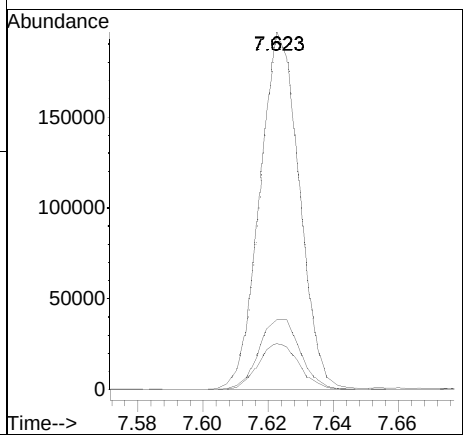


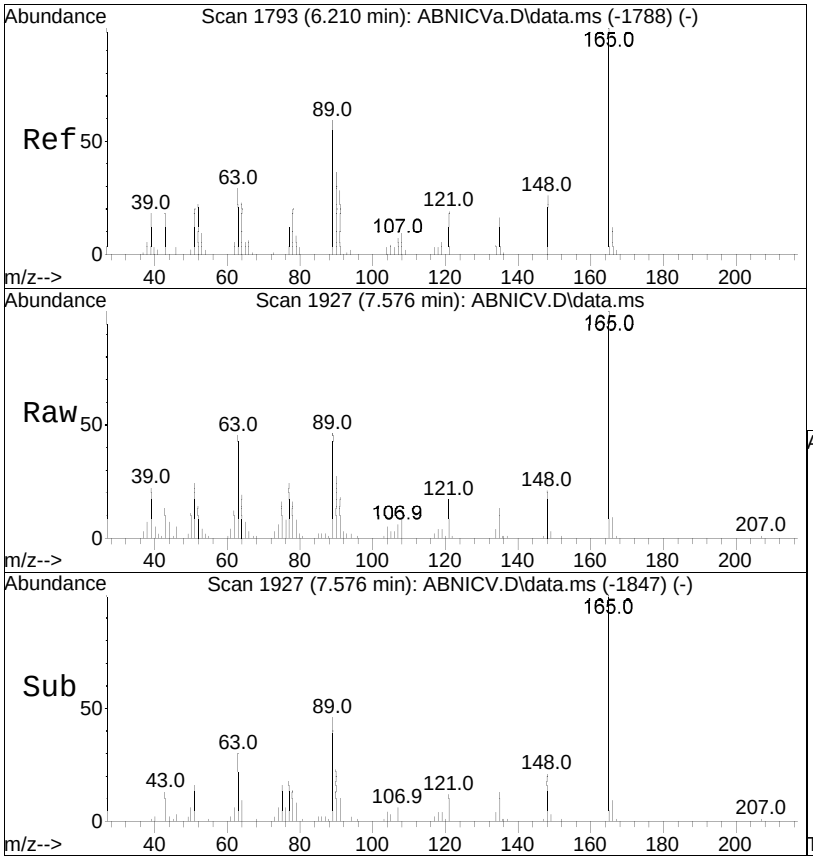


#52
Acenaphthylene
Concen: 5.44 ug/ml
RT: 7.623 min Scan# 1942
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:152 Resp: 164677

Ion	Ratio	Lower	Upper
152	100		
151	20.5	15.8	23.6
153	13.3	10.5	15.7

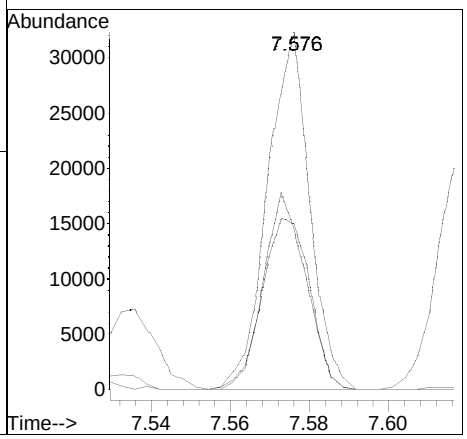


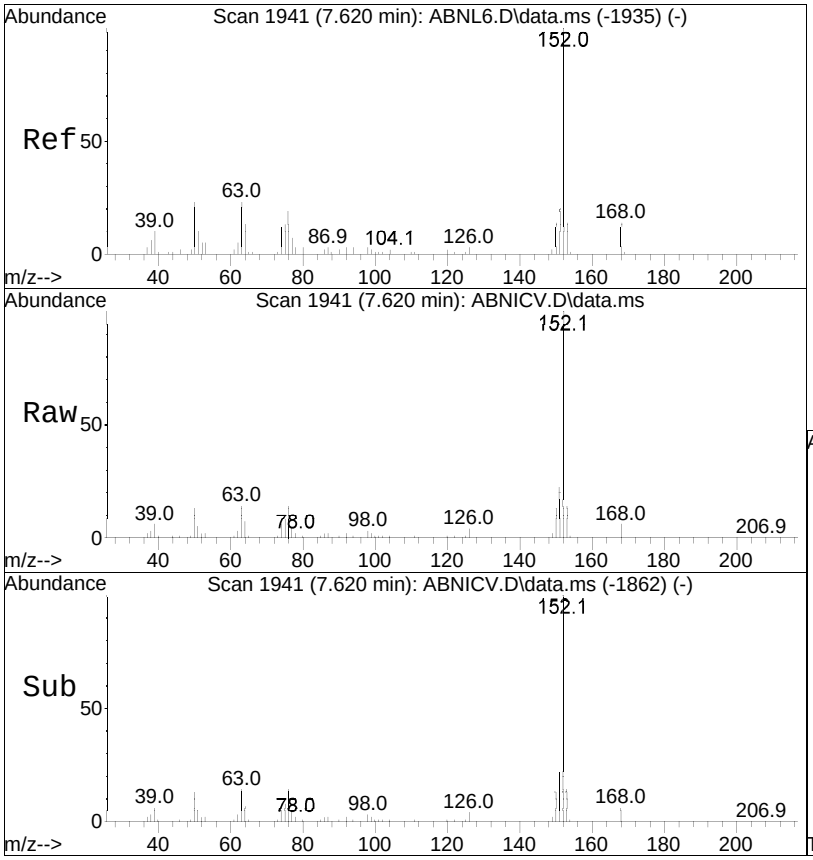


#53
2,6-Dinitrotoluene
Concen: 5.67 ug/ml
RT: 7.576 min Scan# 1927
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:165 Resp: 23920

Ion	Ratio	Lower	Upper
165	100		
89	54.1	54.2	81.2#
63	55.5	64.2	96.2#

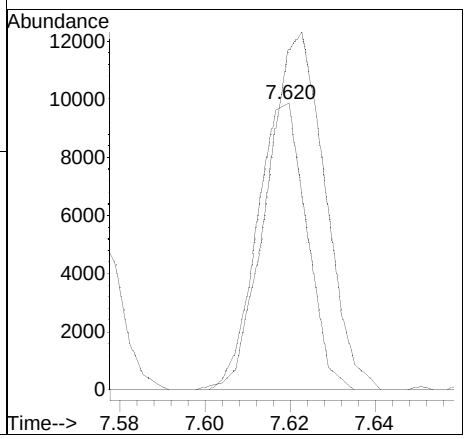


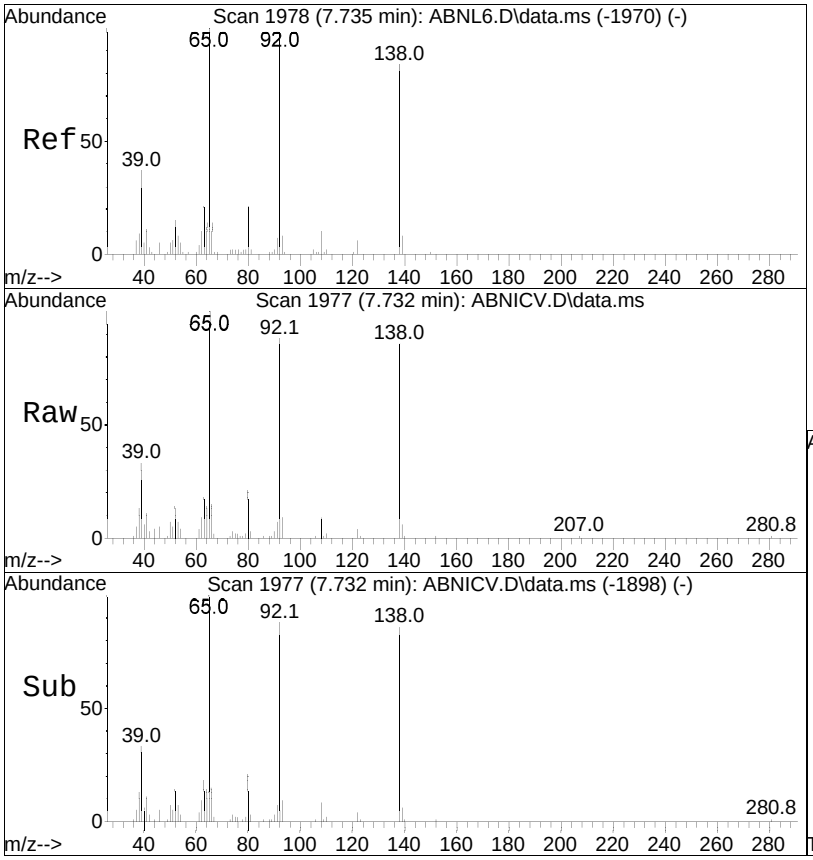


#54
1,2-Dinitrobenzene
Concen: 5.44 ug/ml
RT: 7.620 min Scan# 1941
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:168 Resp: 8060

Ion	Ratio	Lower	Upper
168	100		
75	143.6	30.9	46.3#

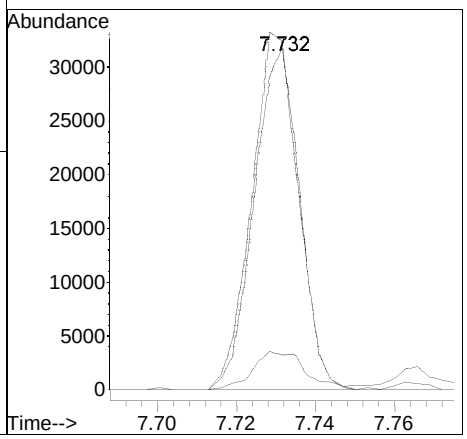


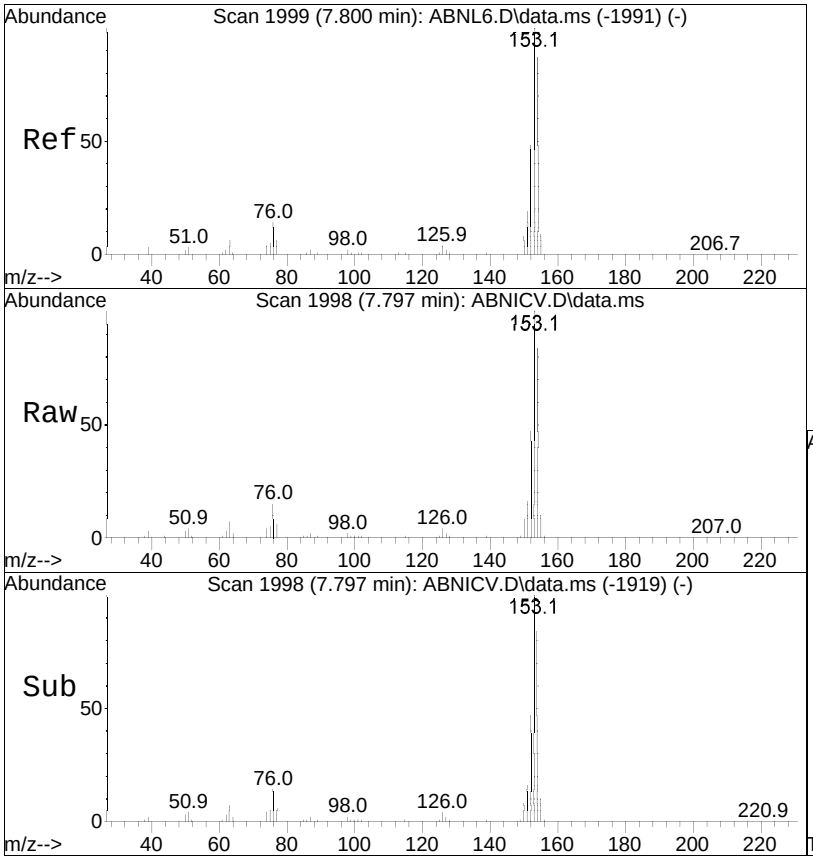


#64
3-Nitroaniline
Concen: 6.02 ug/ml
RT: 7.732 min Scan# 1977
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:138 Resp: 25185

Ion	Ratio	Lower	Upper
138	100		
92	106.2	93.4	140.2
108	13.4	9.5	14.3

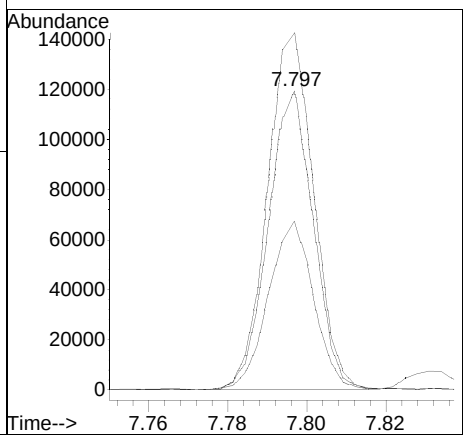


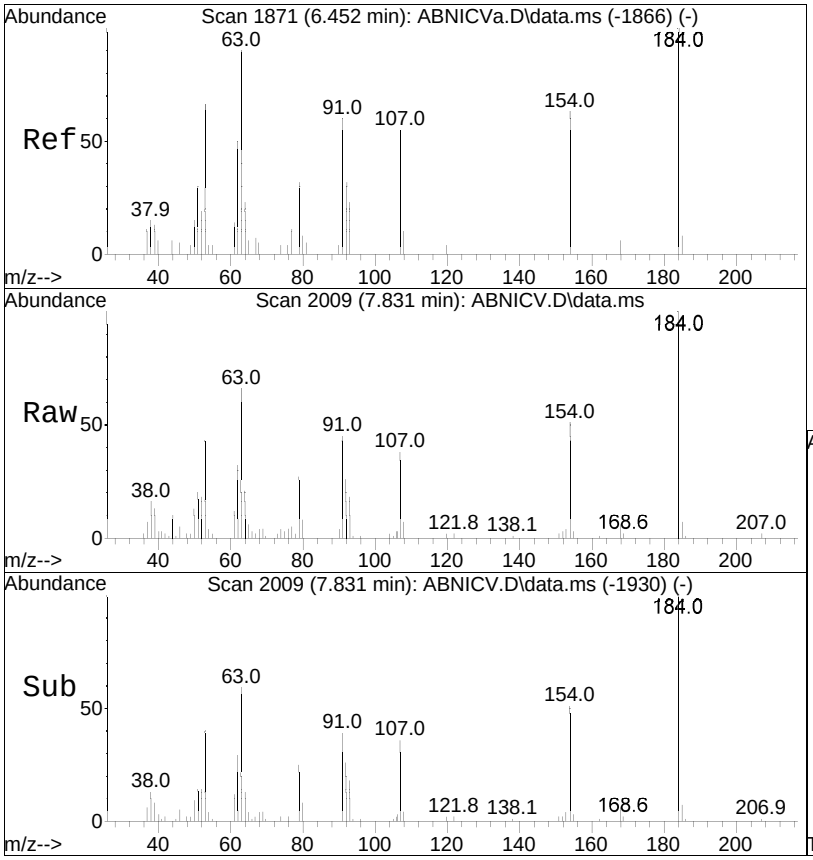


#65
Acenaphthene
Concen: 5.37 ug/ml
RT: 7.797 min Scan# 1998
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:154 Resp: 94451

Ion	Ratio	Lower	Upper
154	100		
153	122.7	85.3	127.9
152	57.1	41.4	62.0

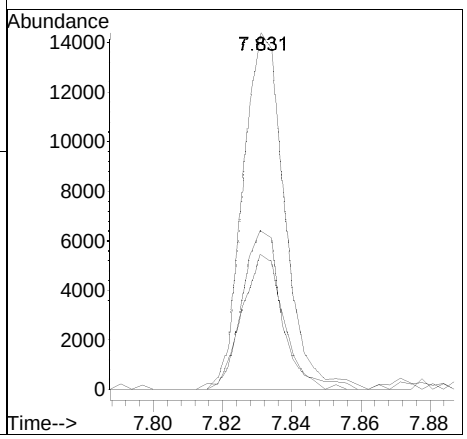


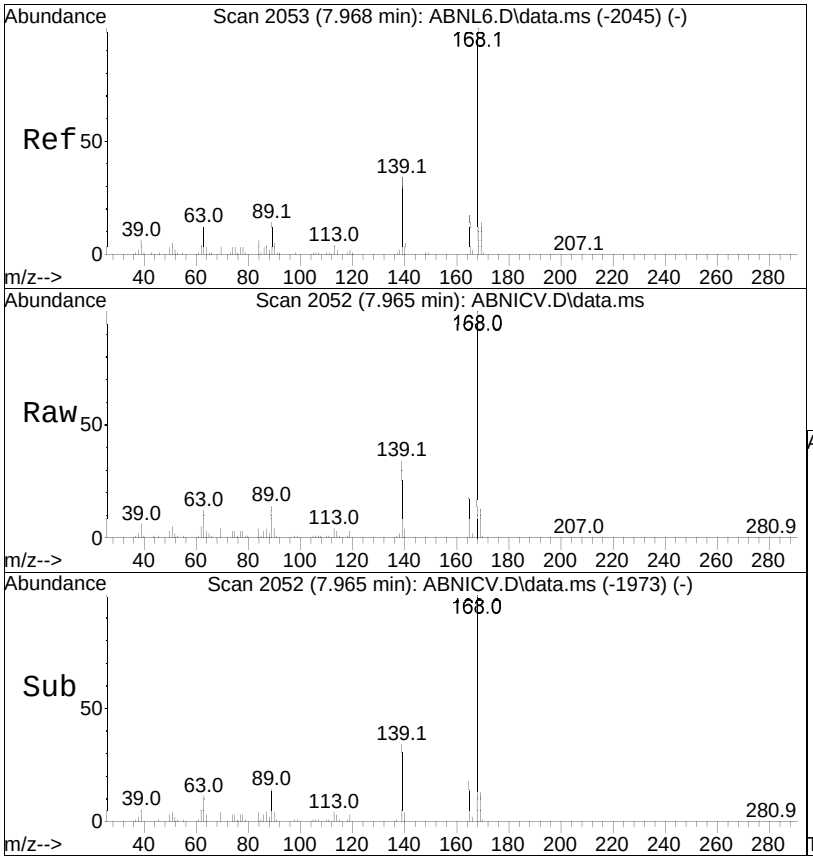


#66
2,4-Dinitrophenol
Concen: 5.13 ug/ml
RT: 7.831 min Scan# 2009
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:184 Resp: 11985

Ion	Ratio	Lower	Upper
184	100		
107	38.0	37.7	56.5
91	43.5	46.3	69.5#

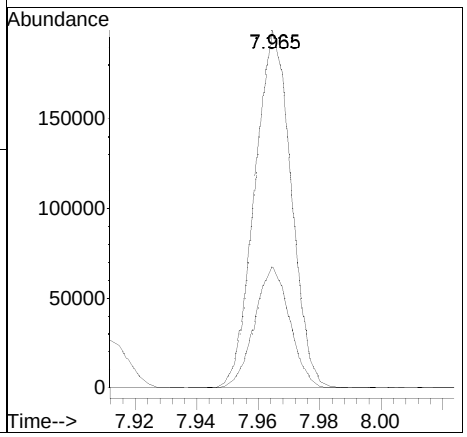


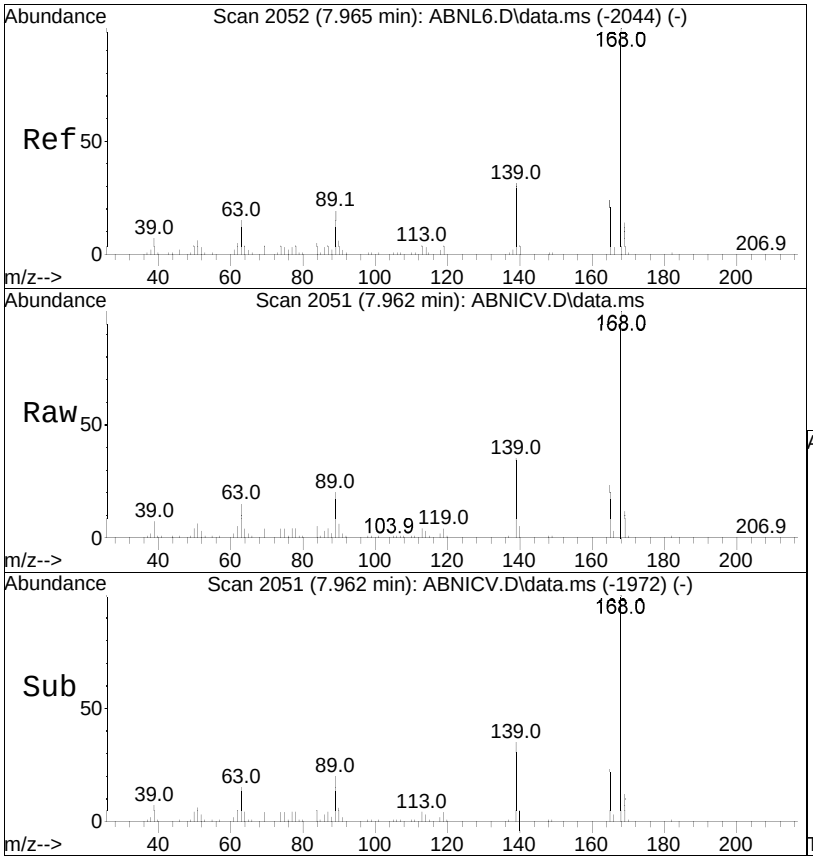


#67
Dibenzofuran
Concen: 5.52 ug/ml
RT: 7.965 min Scan# 2052
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:168 Resp: 162823

Ion	Ratio	Lower	Upper
168	100		
139	33.0	31.4	47.2

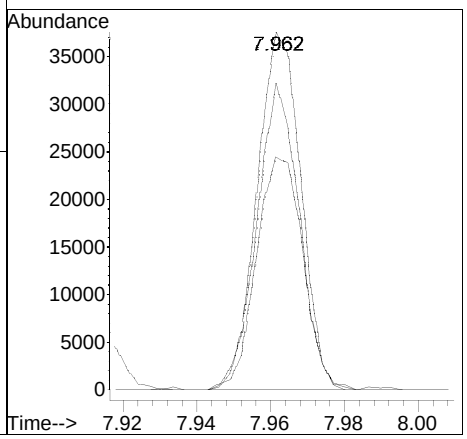


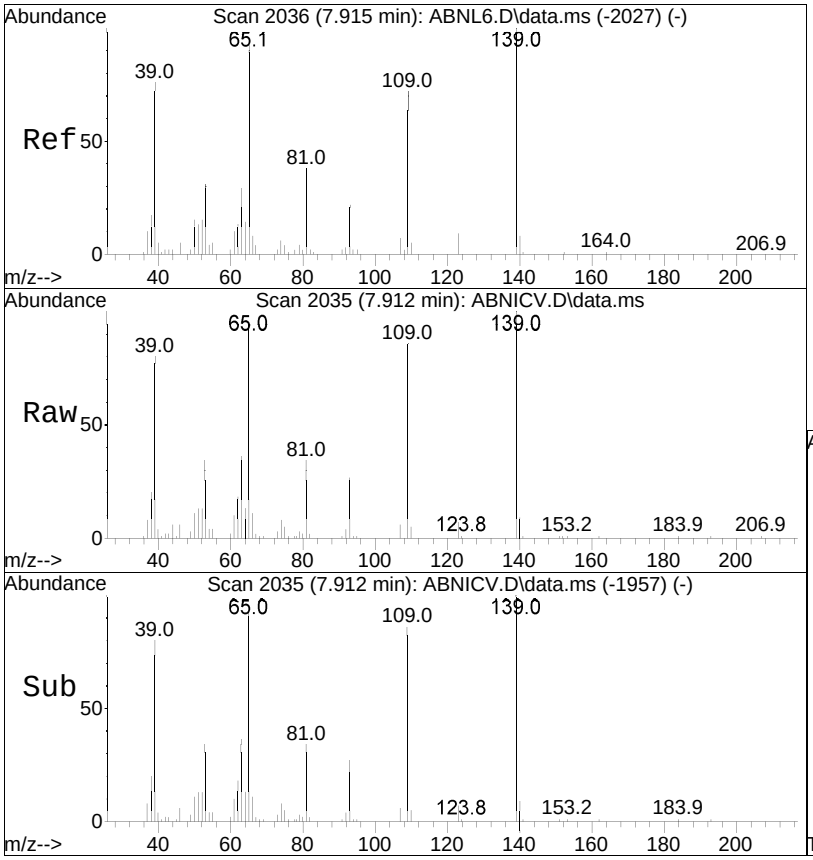


#68
2,4-Dinitrotoluene
Concen: 5.82 ug/ml
RT: 7.962 min Scan# 2051
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:165 Resp: 30807

Ion	Ratio	Lower	Upper
165	100		
89	82.3	72.0	108.0
63	69.4	52.7	79.1

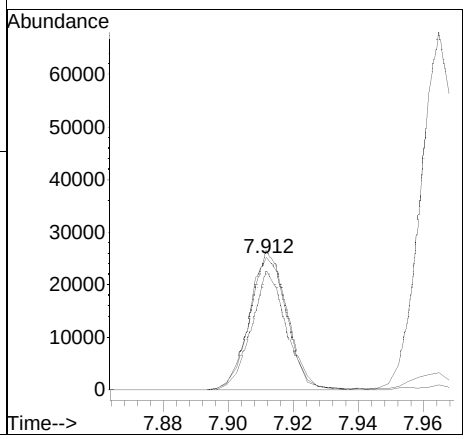


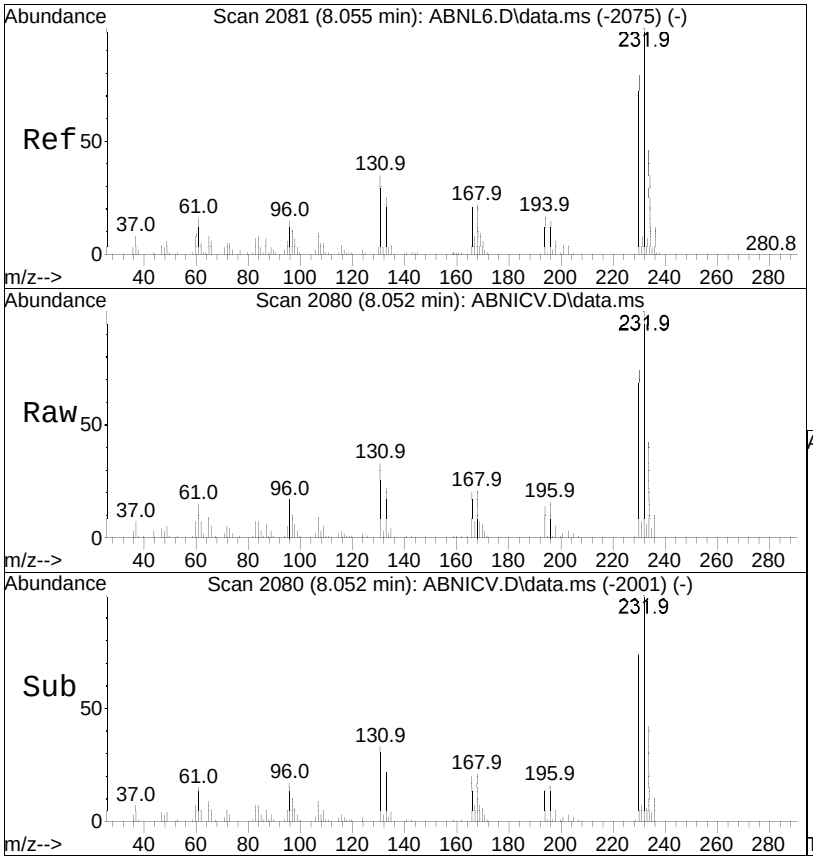


#69
4-Nitrophenol
Concen: 5.66 ug/ml
RT: 7.912 min Scan# 2035
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion: 65 Resp: 20509

Ion	Ratio	Lower	Upper
65	100		
109	82.8	47.4	71.2#
139	101.8	76.6	115.0

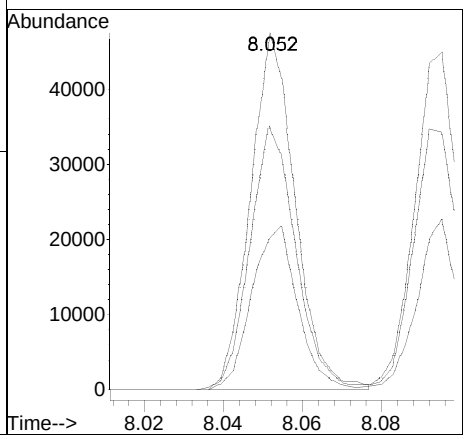


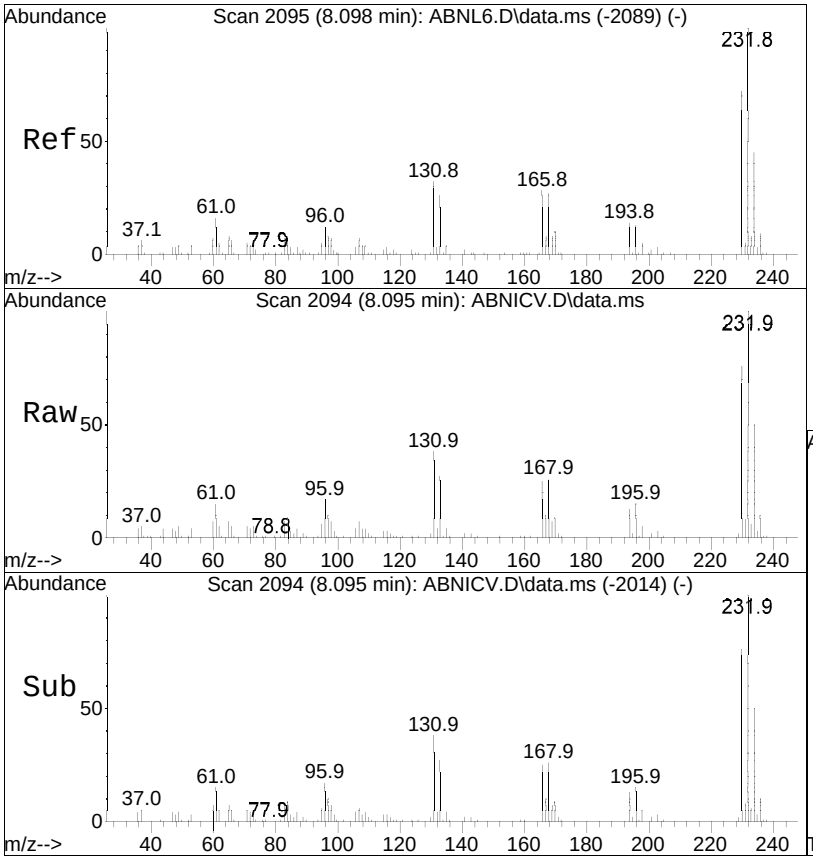


#70
2,3,5,6-Tetrachlorophenol
Concen: 5.71 ug/ml
RT: 8.052 min Scan# 2080
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:232 Resp: 37315

Ion	Ratio	Lower	Upper
232	100		
230	75.7	64.2	96.4
234	47.2	38.1	57.1

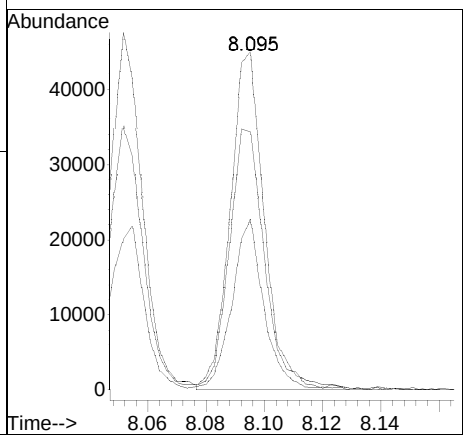


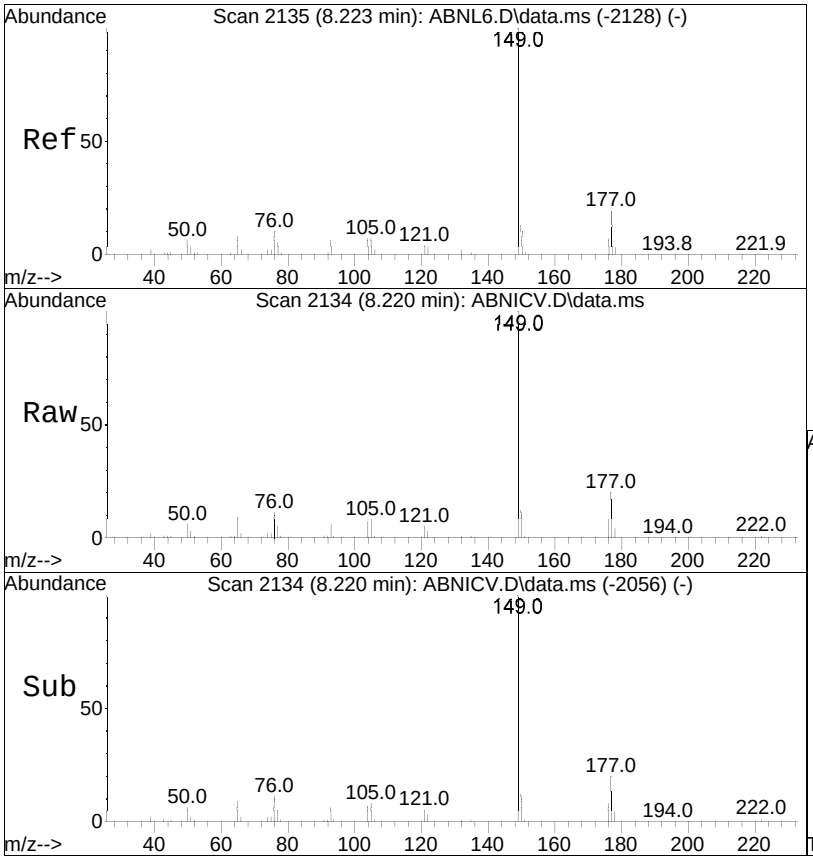


#71
2,3,4,6-Tetrachlorophenol
Concen: 5.86 ug/ml
RT: 8.095 min Scan# 2094
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:232 Resp: 36878

Ion	Ratio	Lower	Upper
232	100		
230	77.6	61.8	92.8
234	47.6	36.2	54.2

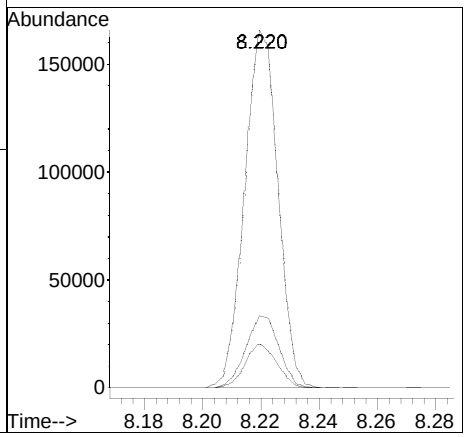


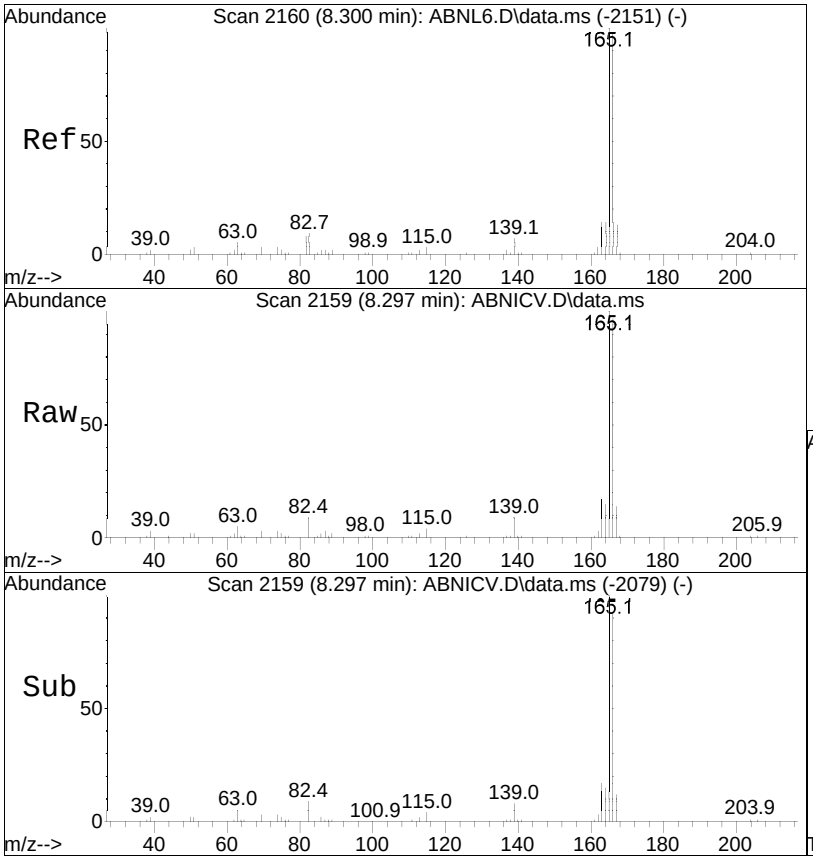


#72
Diethyl phthalate
Concen: 5.42 ug/ml
RT: 8.220 min Scan# 2134
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:149 Resp: 130573

Ion	Ratio	Lower	Upper
149	100		
177	20.2	16.1	24.1
150	11.7	9.4	14.2

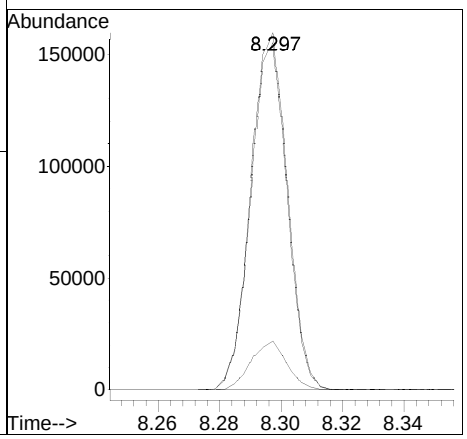


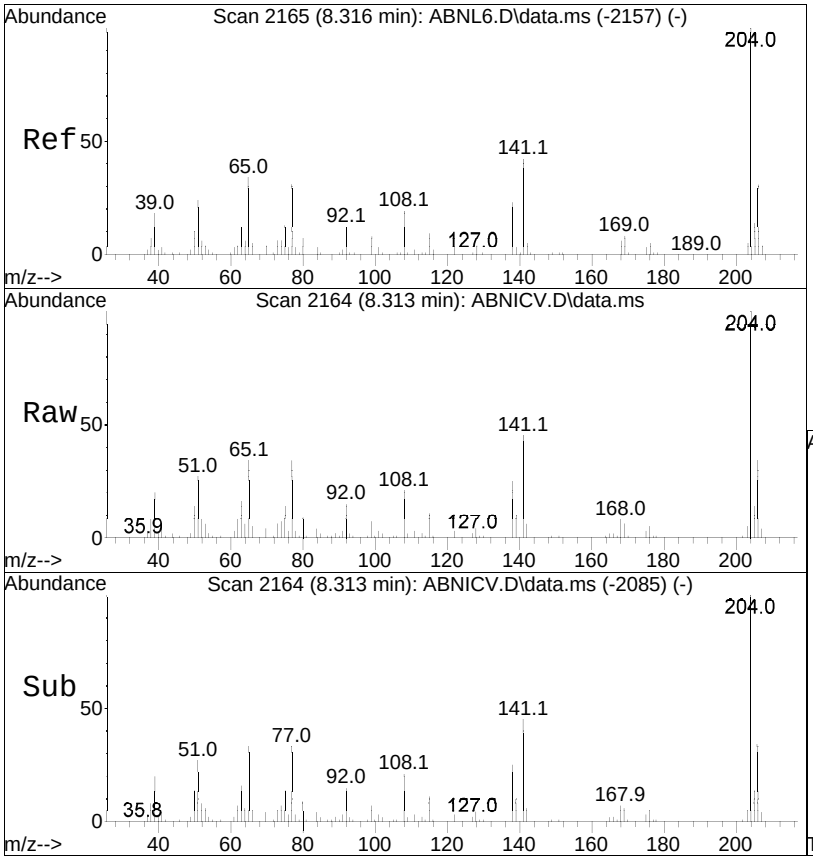


#73
Fluorene
Concen: 5.44 ug/ml
RT: 8.297 min Scan# 2159
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:166 Resp: 127425

Ion	Ratio	Lower	Upper
166	100		
165	104.5	76.2	114.2
167	14.0	10.6	15.8

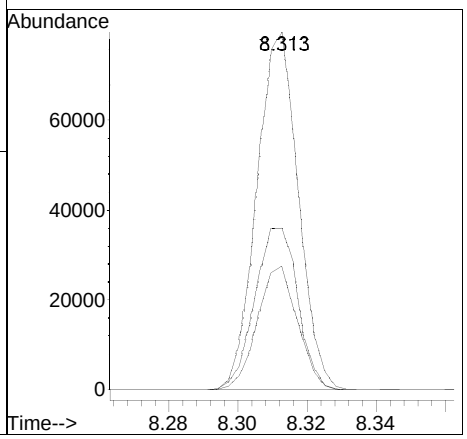


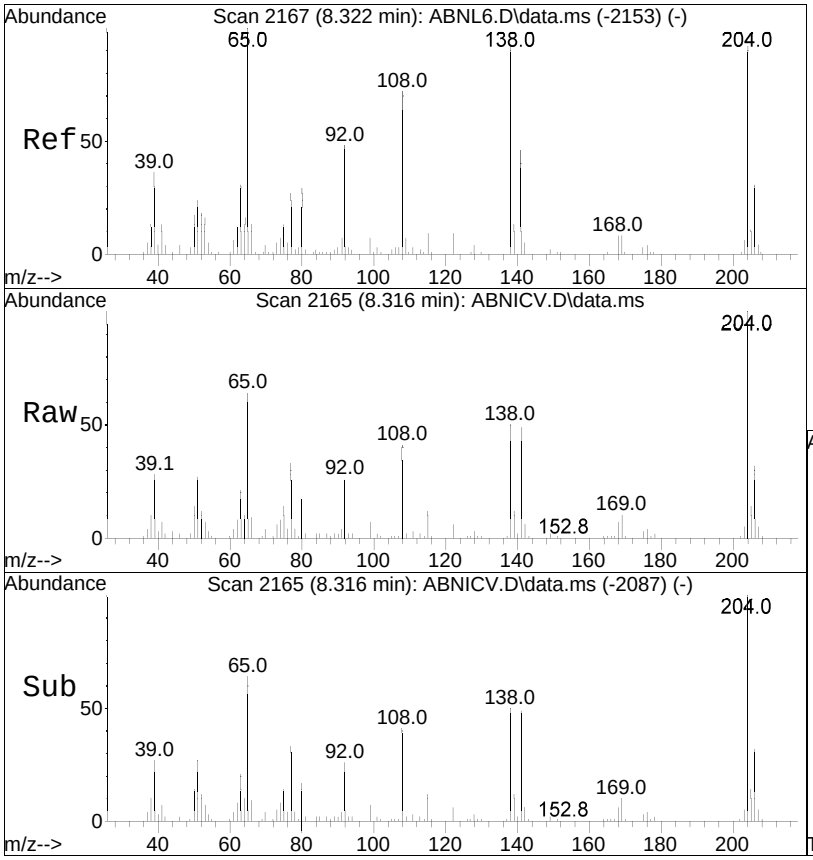


#74
4-Chlorophenyl phenyl ether
Concen: 5.30 ug/ml
RT: 8.313 min Scan# 2164
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:204 Resp: 65870

Ion	Ratio	Lower	Upper
204	100		
206	33.6	25.8	38.6
141	47.3	53.6	80.4#

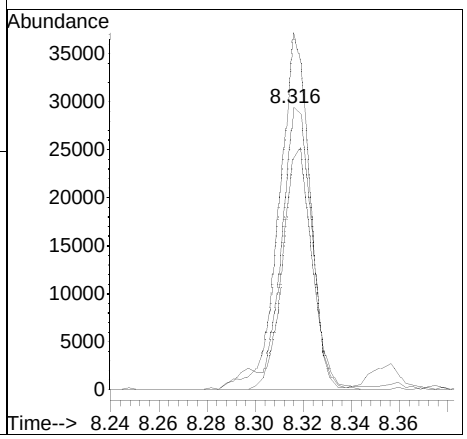


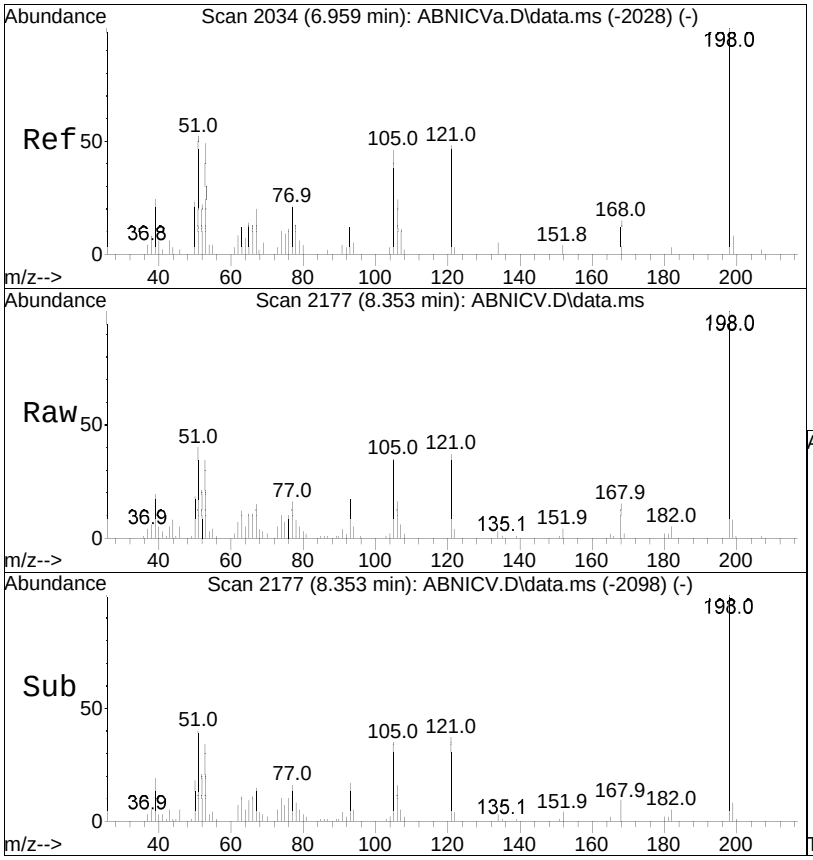


#75
4-Nitroaniline
Concen: 5.91 ug/ml
RT: 8.316 min Scan# 2165
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:138 Resp: 26329

Ion	Ratio	Lower	Upper
138	100		
108	81.3	52.1	78.1#
65	124.9	115.0	172.6

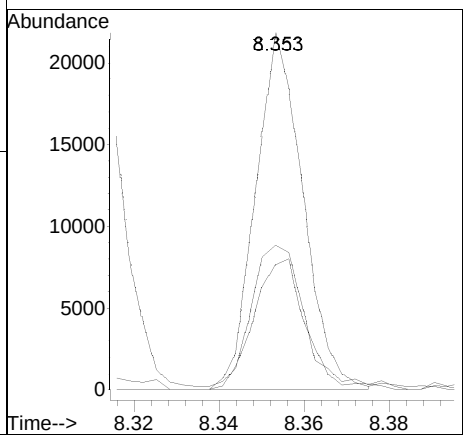


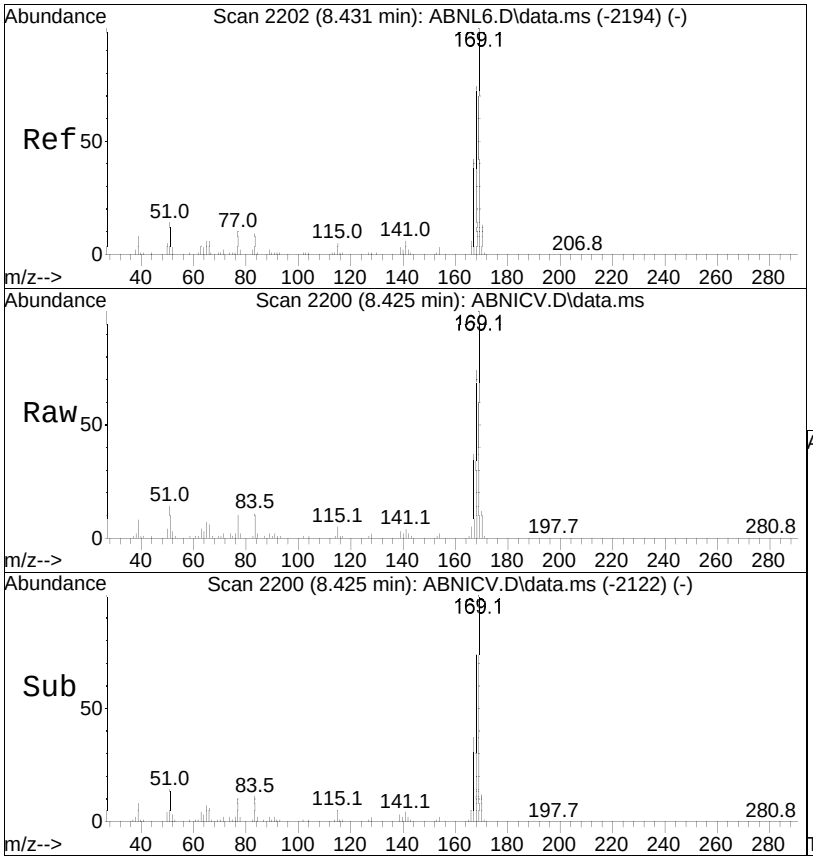


#76
4,6-Dinitro-o-cresol
Concen: 5.30 ug/ml
RT: 8.353 min Scan# 2177
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:198 Resp: 16837

Ion	Ratio	Lower	Upper
198	100		
51	46.5	76.0	114.0#
105	39.9	45.6	68.4#

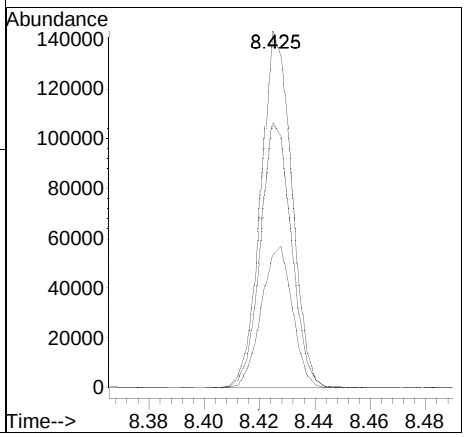


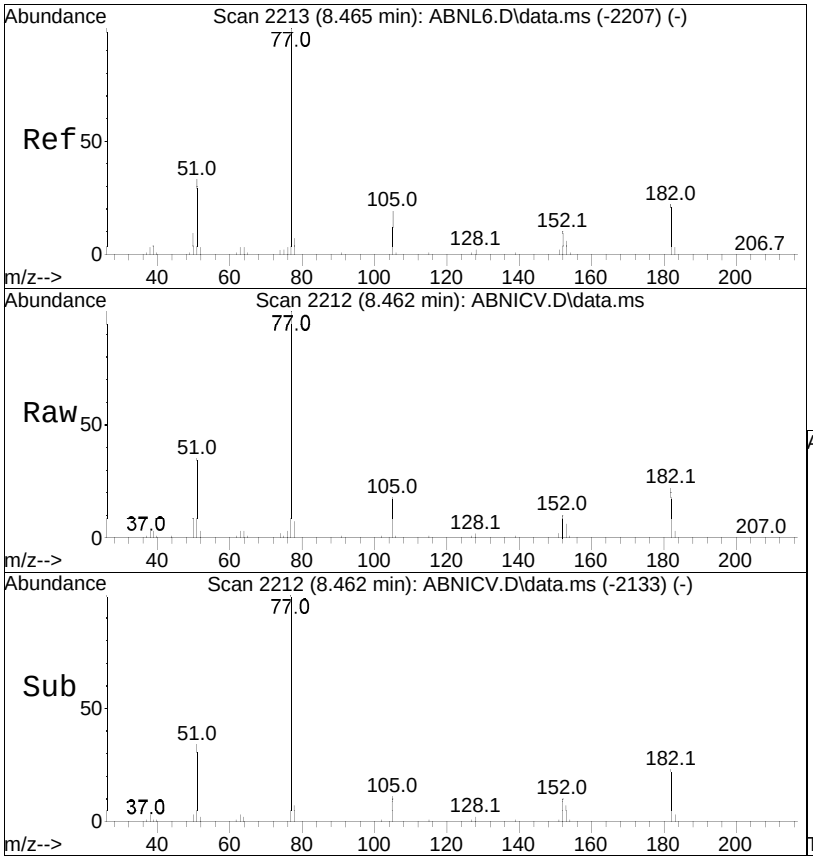


#77
NDPA/DPA
Concen: 5.49 ug/ml
RT: 8.425 min Scan# 2200
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:169 Resp: 110910

Ion	Ratio	Lower	Upper
169	100		
168	74.4	54.0	81.0
167	40.0	28.6	42.8

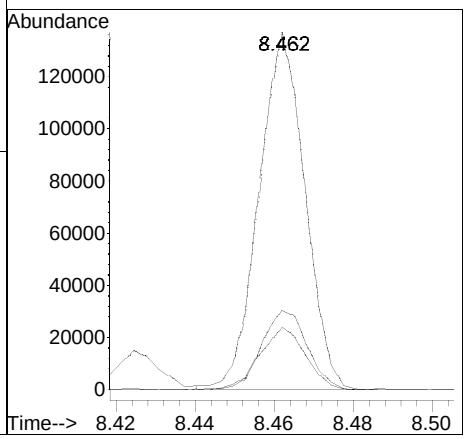


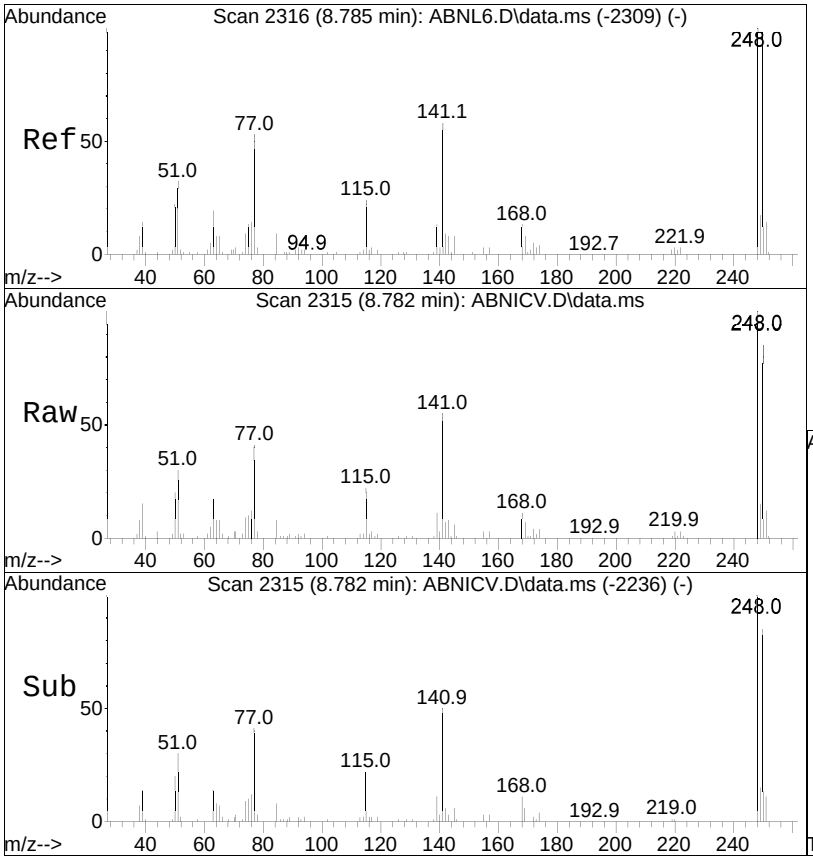


#78
Azobenzene
Concen: 5.39 ug/ml
RT: 8.462 min Scan# 2212
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion: 77 Resp: 108935

Ion	Ratio	Lower	Upper
77	100		
182	22.6	17.4	26.2
105	17.6	15.4	23.2

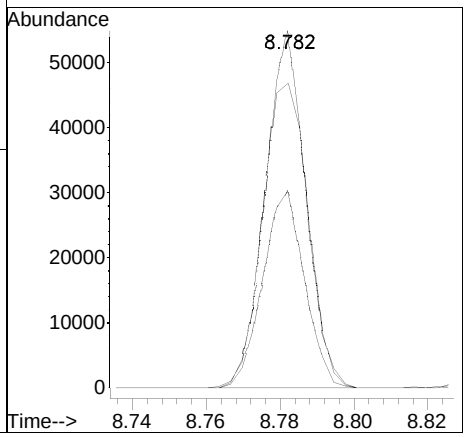


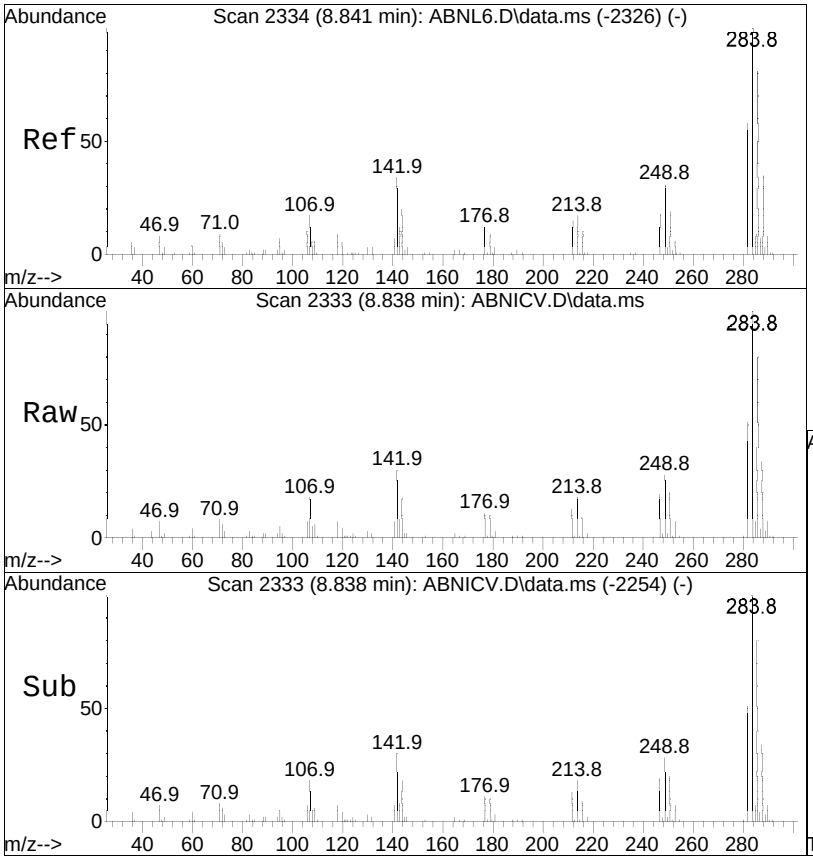


#80
4-Bromophenyl phenyl ether
Concen: 5.40 ug/ml
RT: 8.782 min Scan# 2315
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:248 Resp: 41669

Ion	Ratio	Lower	Upper
248	100		
141	56.7	76.6	114.8#
250	95.2	77.3	115.9

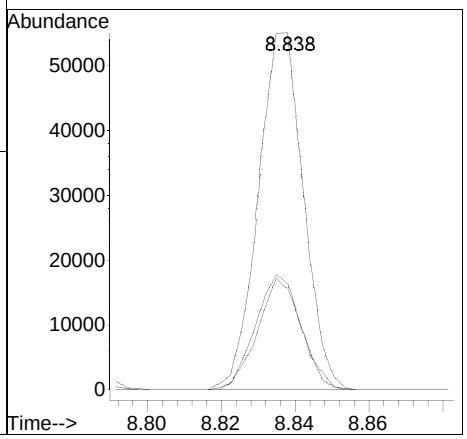


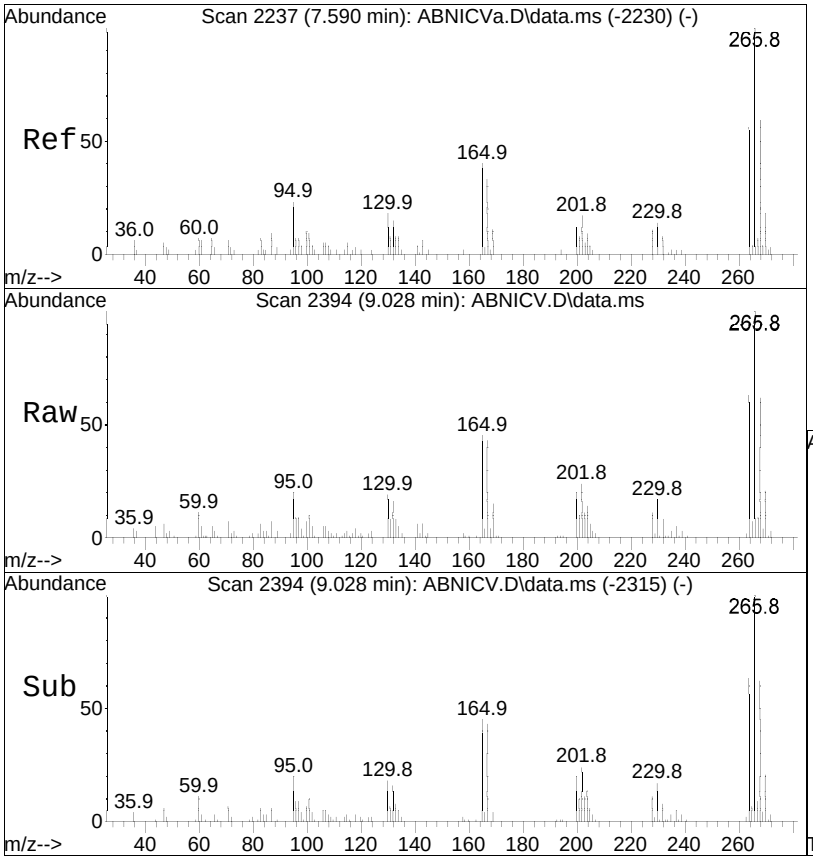


#81
Hexachlorobenzene
Concen: 5.23 ug/ml
RT: 8.838 min Scan# 2333
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:284 Resp: 46550

Ion	Ratio	Lower	Upper
284	100		
142	32.6	41.9	62.9#
249	30.5	24.1	36.1

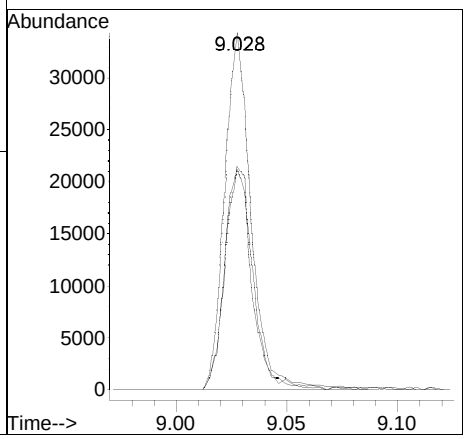


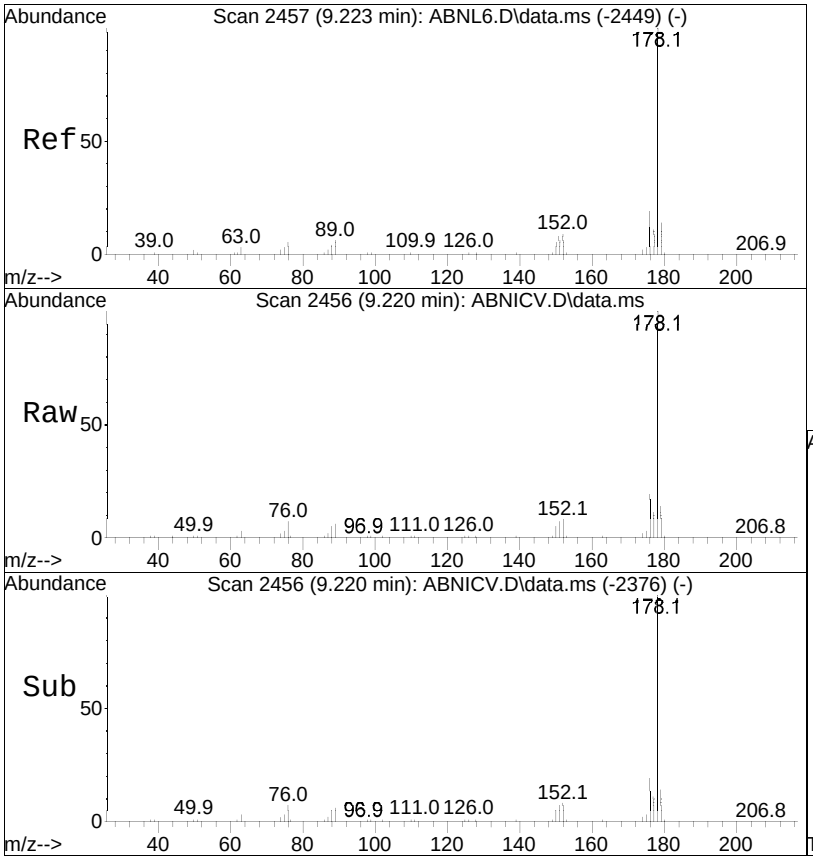


#82
Pentachlorophenol
Concen: 5.09 ug/ml
RT: 9.028 min Scan# 2394
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:266 Resp: 28641

Ion	Ratio	Lower	Upper
266	100		
264	63.9	49.7	74.5
268	66.4	50.5	75.7

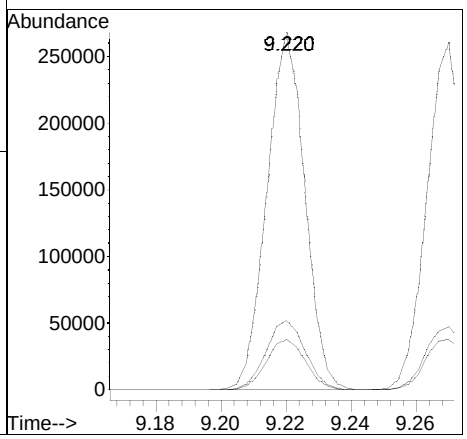


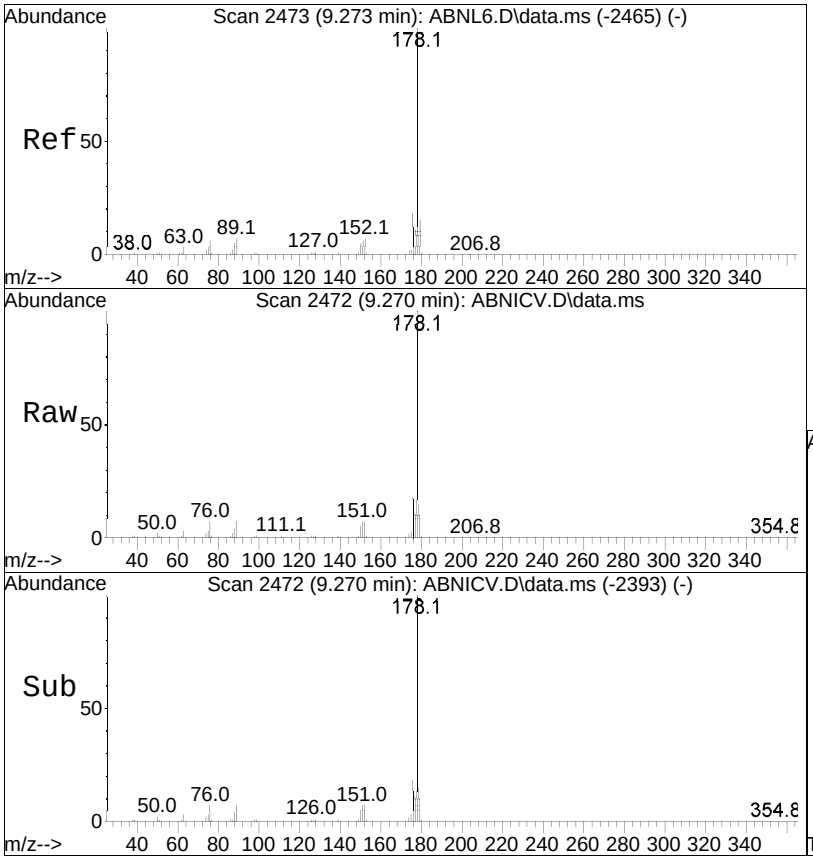


#89
Phenanthrene
Concen: 5.33 ug/ml
RT: 9.220 min Scan# 2456
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:178 Resp: 216545

Ion	Ratio	Lower	Upper
178	100		
179	14.6	12.2	18.2
176	20.0	15.4	23.2

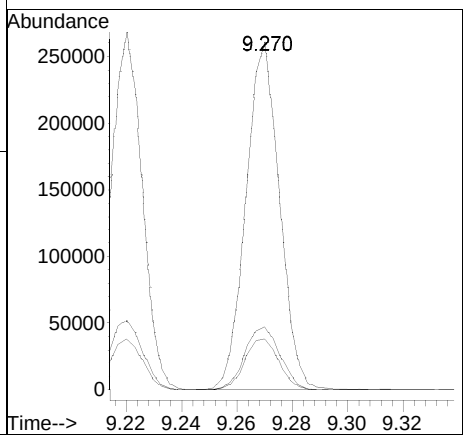


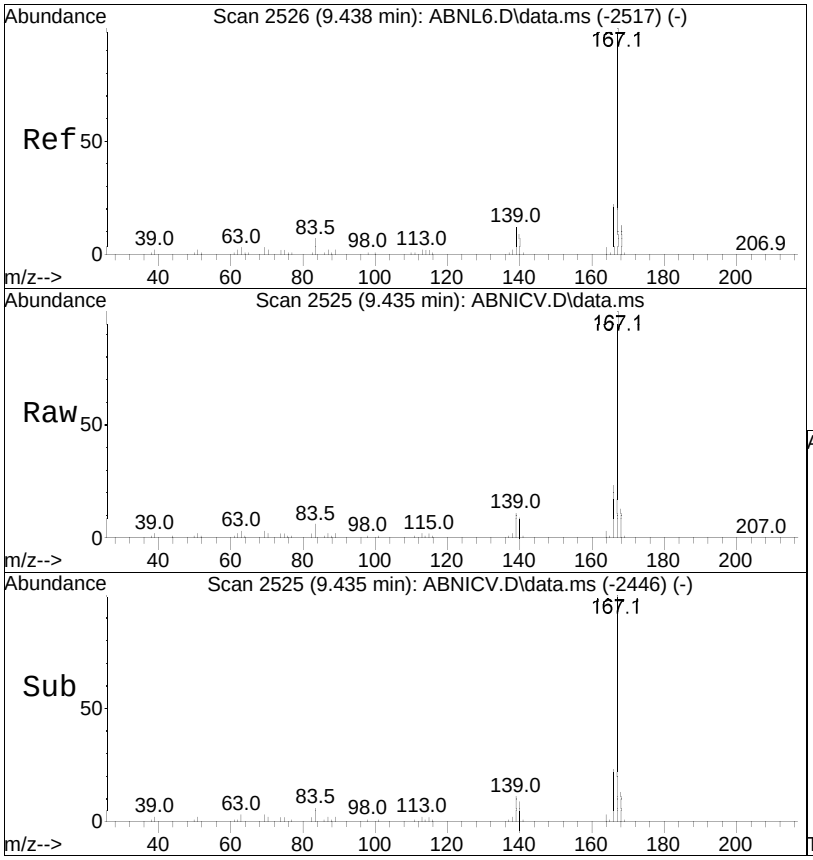


#90
Anthracene
Concen: 5.51 ug/ml
RT: 9.270 min Scan# 2472
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:178 Resp: 219062

Ion	Ratio	Lower	Upper
178	100		
179	15.0	12.0	18.0
176	19.1	14.6	22.0

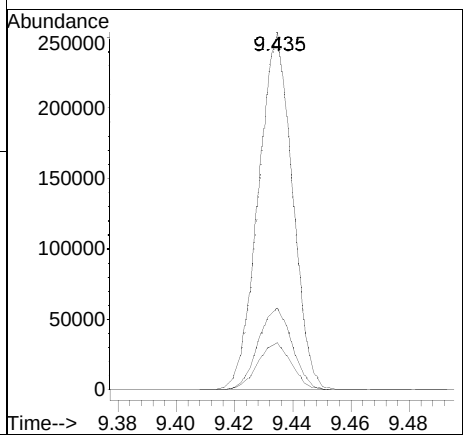


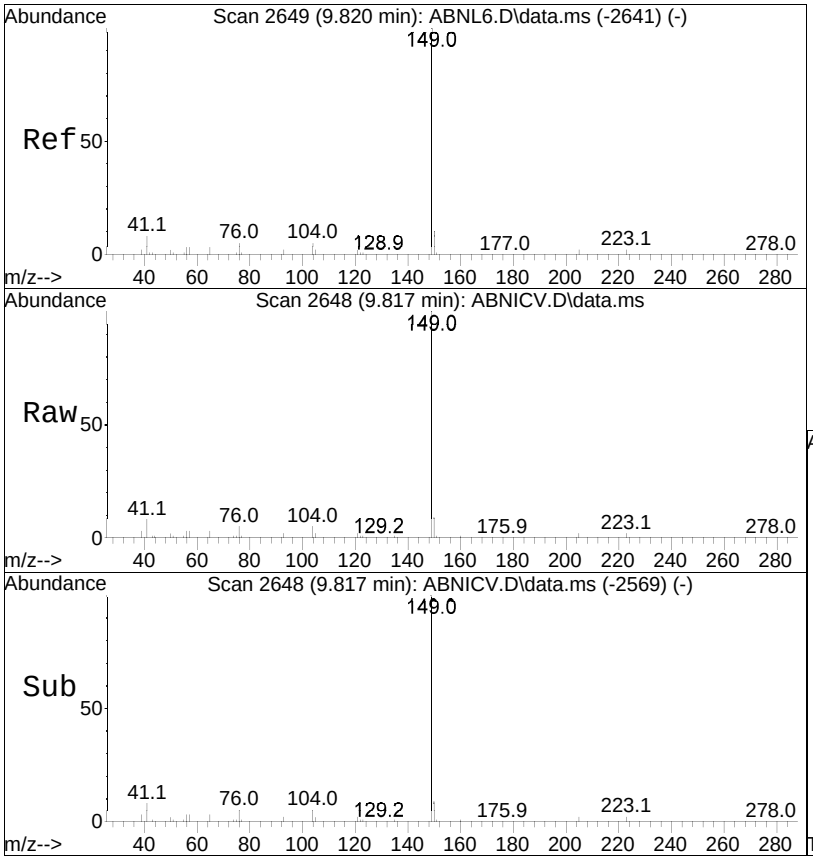


#91
Carbazole
Concen: 5.31 ug/ml
RT: 9.435 min Scan# 2525
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:167 Resp: 204152

Ion	Ratio	Lower	Upper
167	100		
168	13.3	10.6	15.8
166	23.0	17.4	26.0

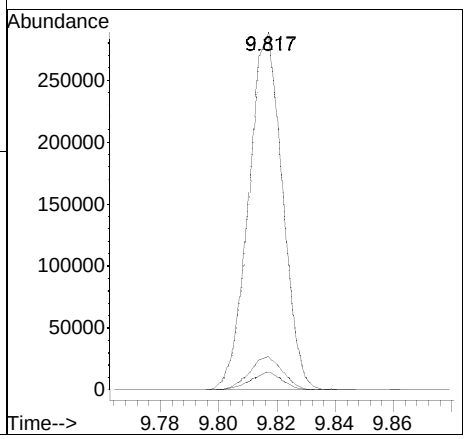


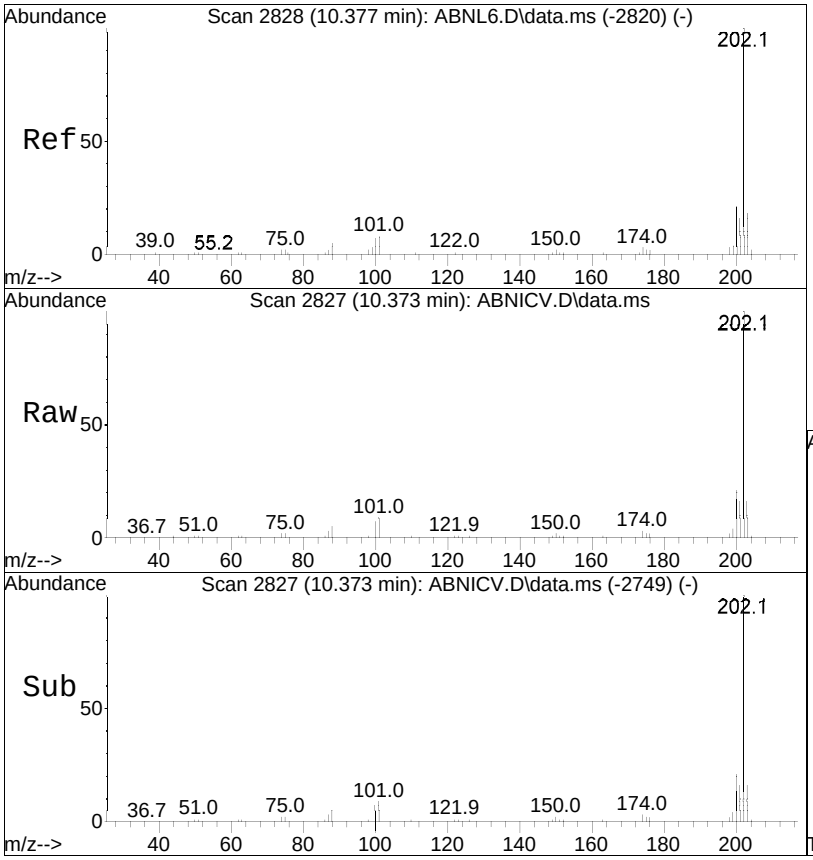


#92
Di-n-butylphthalate
Concen: 5.47 ug/ml
RT: 9.817 min Scan# 2648
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:149 Resp: 228840

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.0	10.6
104	4.8	4.5	6.7

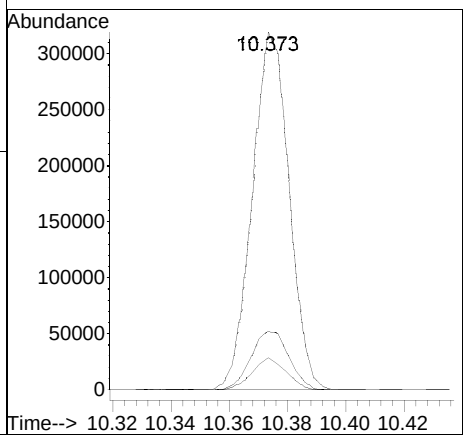


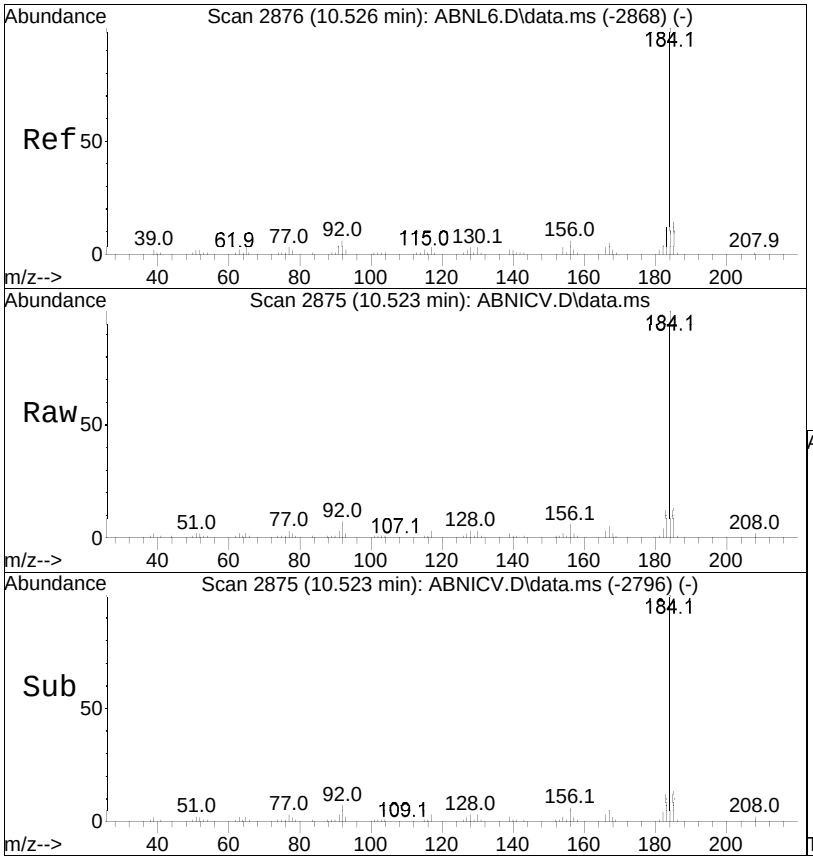


#93
Fluoranthene
Concen: 5.34 ug/ml
RT: 10.373 min Scan# 2827
Delta R.T. -0.007 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:202 Resp: 277175

Ion	Ratio	Lower	Upper
202	100		
101	8.4	13.5	20.3#
203	17.0	13.6	20.4

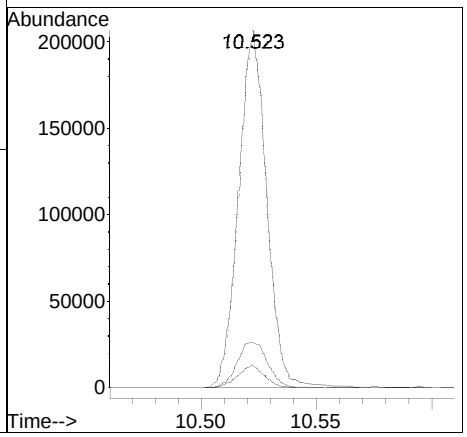


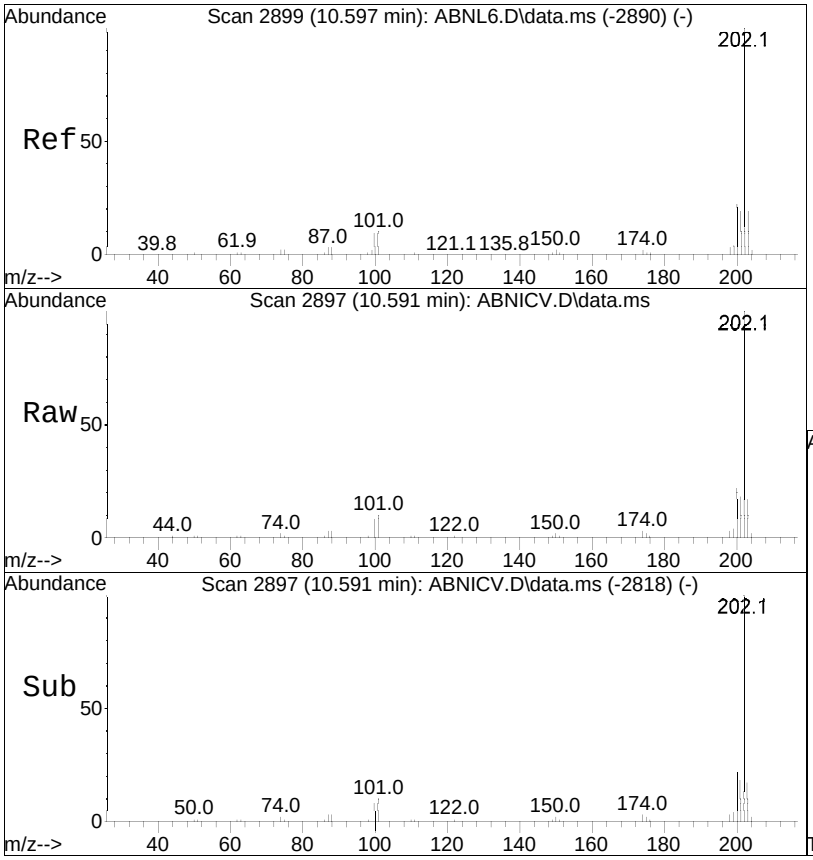


#94
Benzidine
Concen: 5.82 ug/ml
RT: 10.523 min Scan# 2875
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:184 Resp: 173118

Ion	Ratio	Lower	Upper
184	100		
92	6.1	9.1	13.7#
185	14.0	11.1	16.7

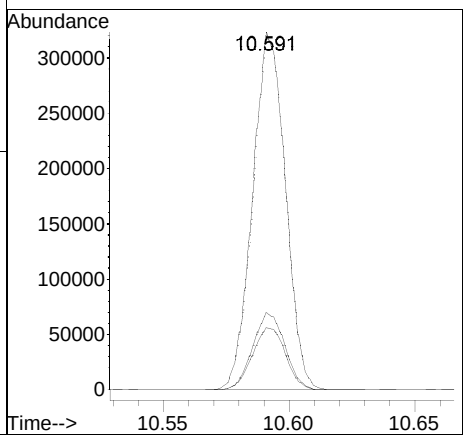


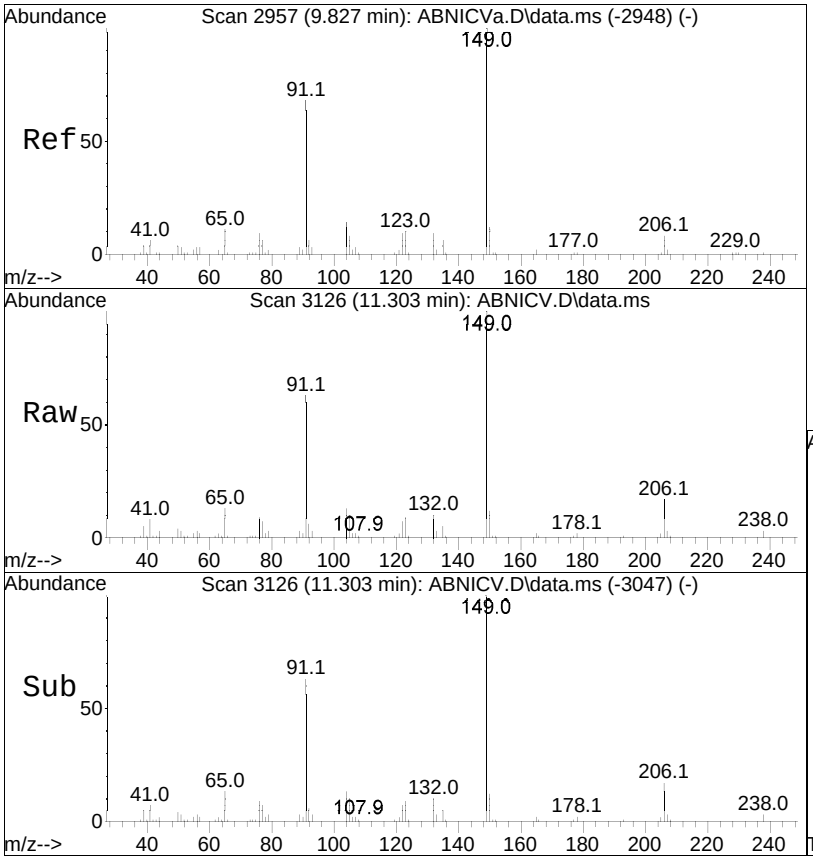


#95
Pyrene
Concen: 5.30 ug/ml
RT: 10.591 min Scan# 2897
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:202 Resp: 288564

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.7	25.1
203	17.7	14.2	21.4

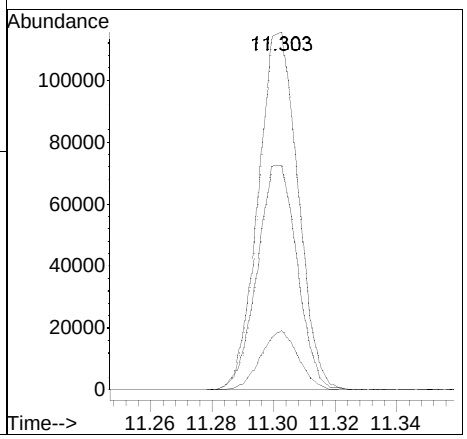


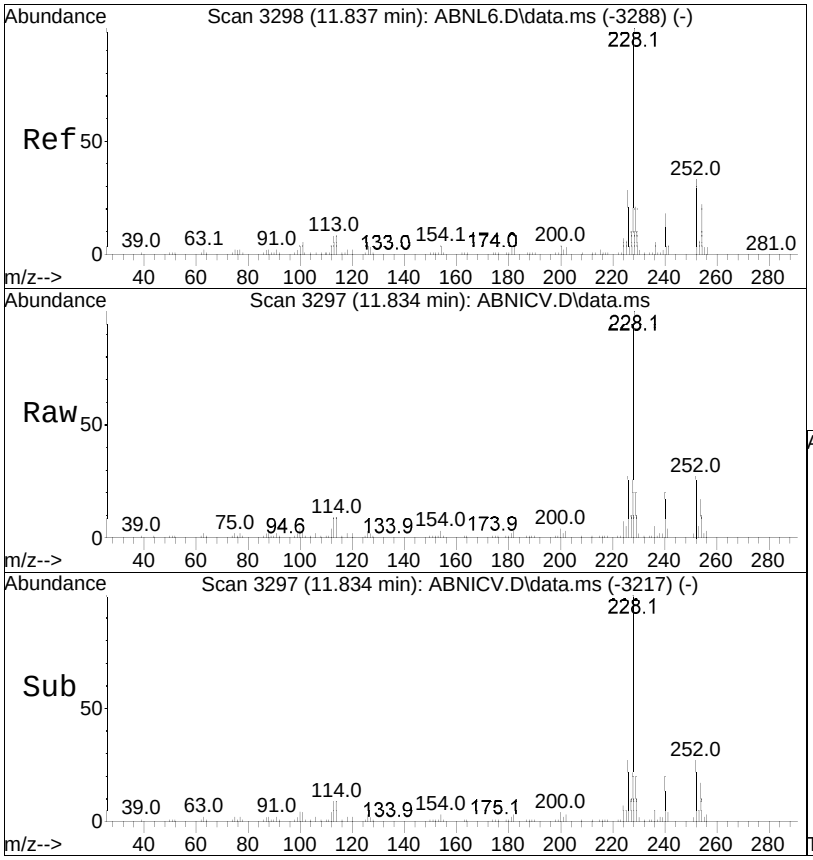


#97
Butyl benzyl phthalate
Concen: 5.36 ug/ml
RT: 11.303 min Scan# 3126
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:149 Resp: 102655

Ion	Ratio	Lower	Upper
149	100		
91	63.4	63.3	94.9
206	15.8	13.9	20.9

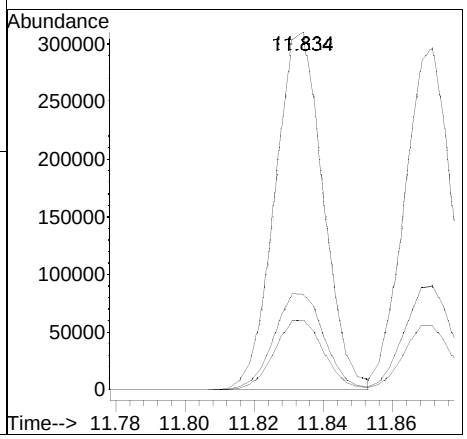


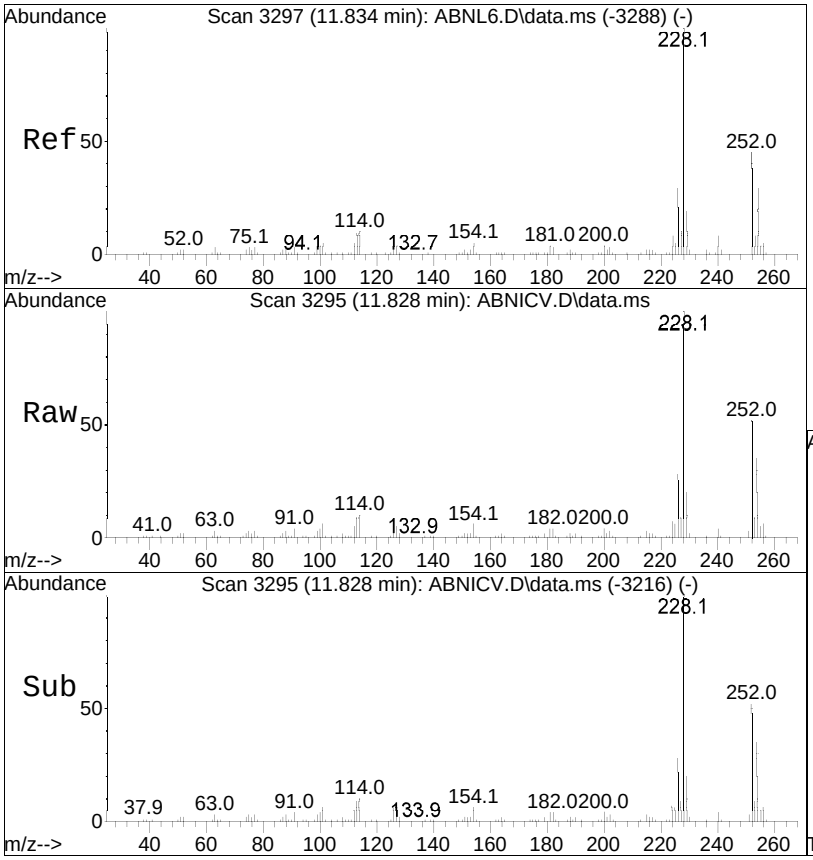


#105
Benzo(a)anthracene
Concen: 5.17 ug/ml
RT: 11.834 min Scan# 3297
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:228 Resp: 299973

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.2	33.4
229	20.0	15.6	23.4

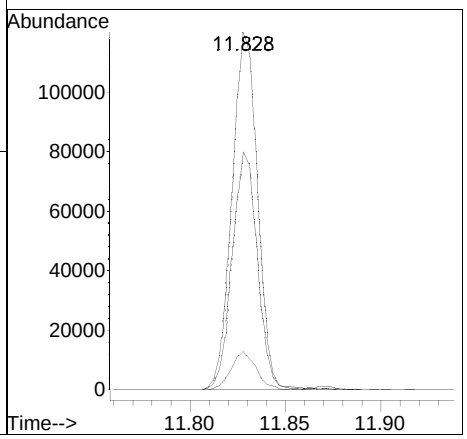


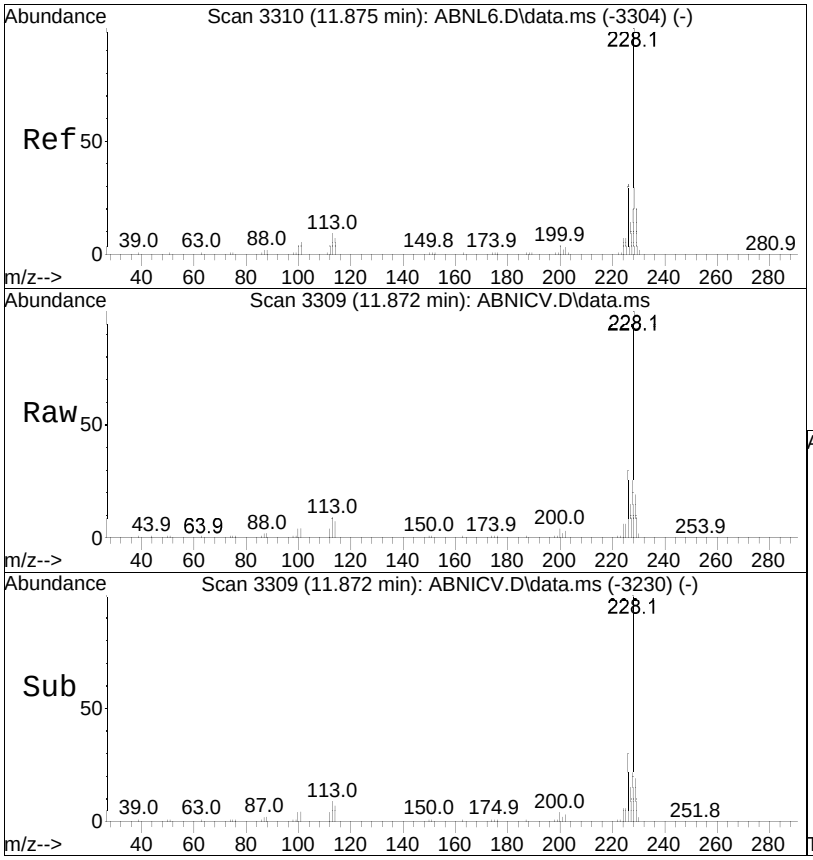


#106
3,3'-Dichlorobenzidine
Concen: 5.57 ug/ml
RT: 11.828 min Scan# 3295
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:252 Resp: 111080

Ion	Ratio	Lower	Upper
252	100		
126	10.6	14.5	21.7#
254	65.5	51.2	76.8

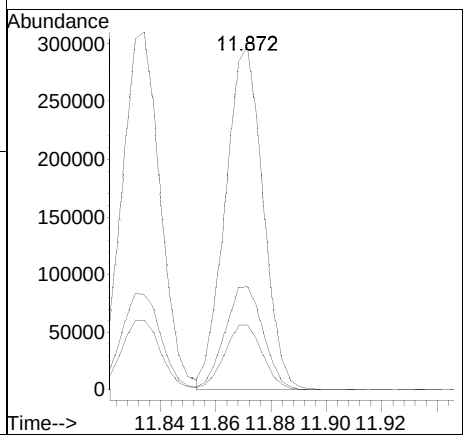


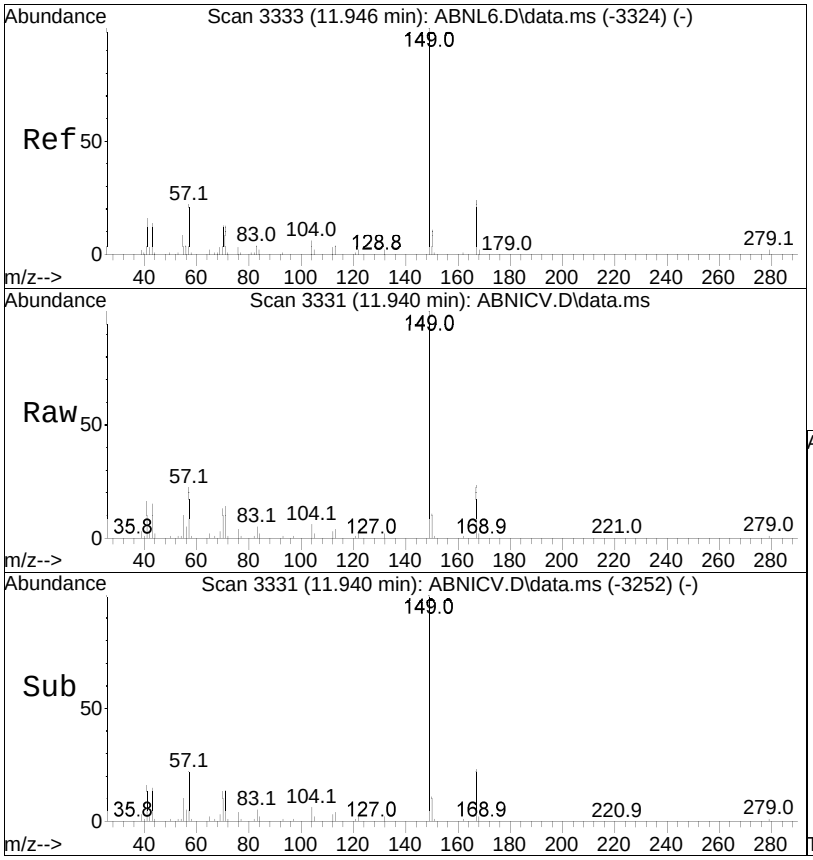


#107
Chrysene
Concen: 5.30 ug/ml
RT: 11.872 min Scan# 3309
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:228 Resp: 282265

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.0	36.0
229	19.0	15.8	23.8

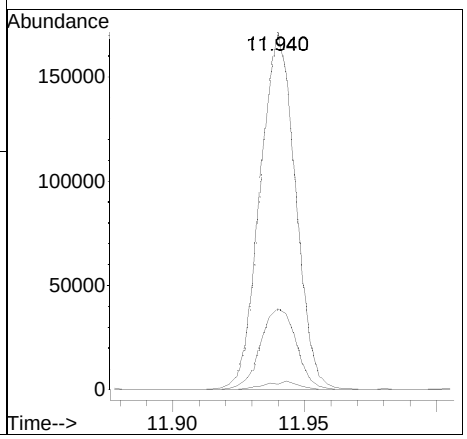


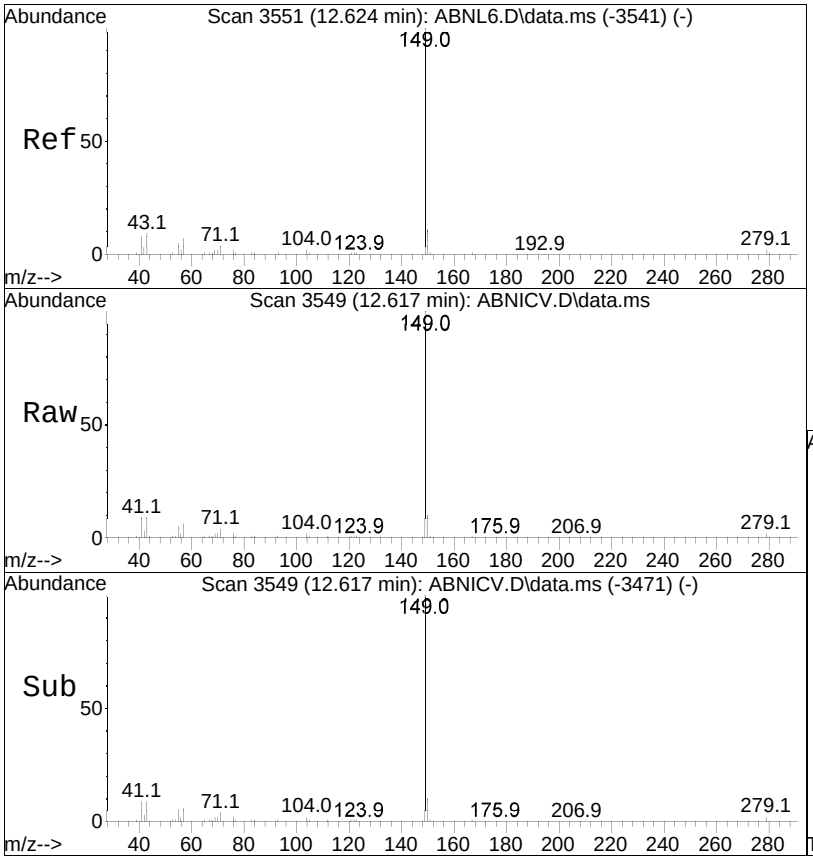


#108
Bis(2-ethylhexyl)phthalate
Concen: 5.62 ug/ml
RT: 11.940 min Scan# 3331
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:149 Resp: 157846

Ion	Ratio	Lower	Upper
149	100		
167	23.0	22.1	33.1
279	1.9	3.0	4.4#

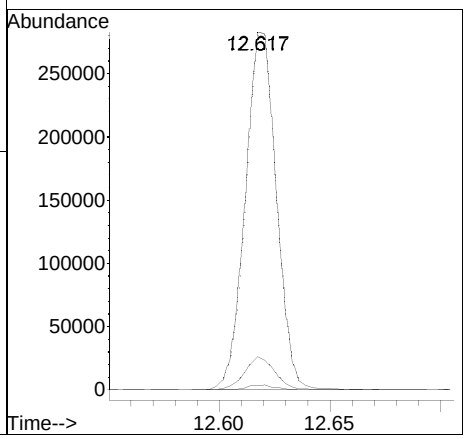


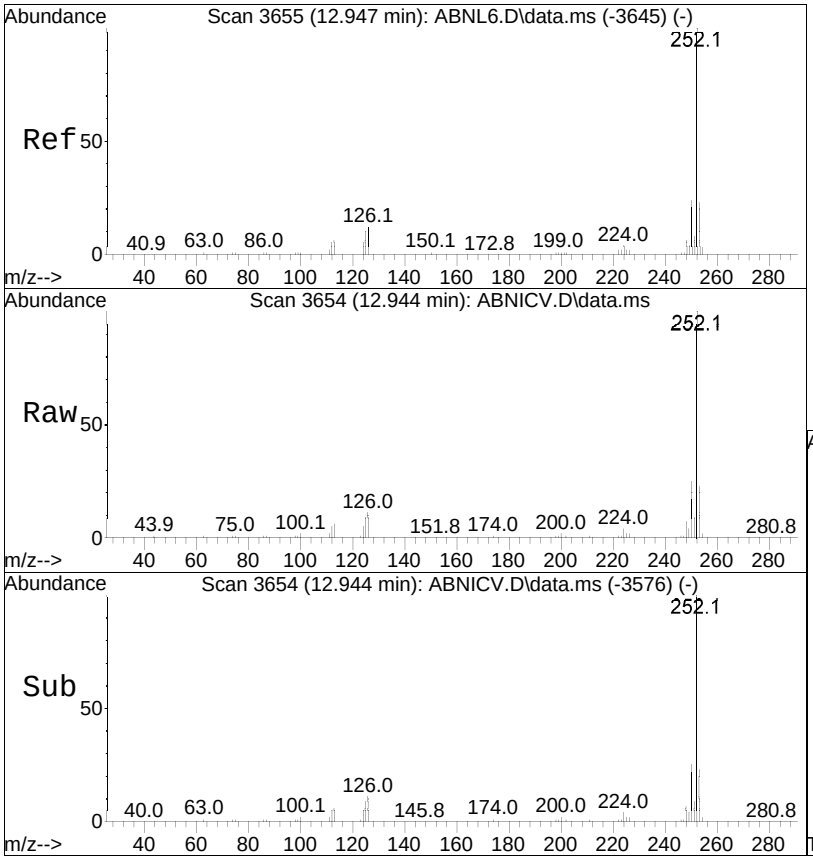


#109
Di-n-octylphthalate
Concen: 5.68 ug/ml
RT: 12.617 min Scan# 3549
Delta R.T. -0.007 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:149 Resp: 272203

Ion	Ratio	Lower	Upper
149	100		
43	9.3	18.8	28.2#
167	1.3	1.3	1.9#

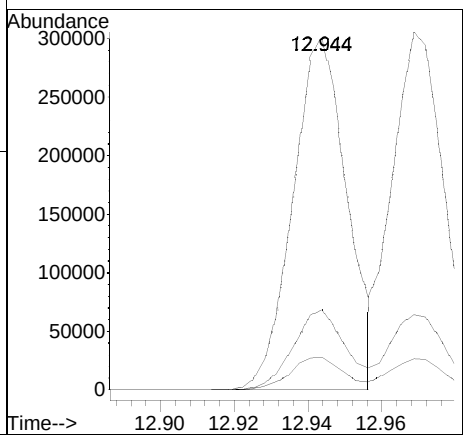


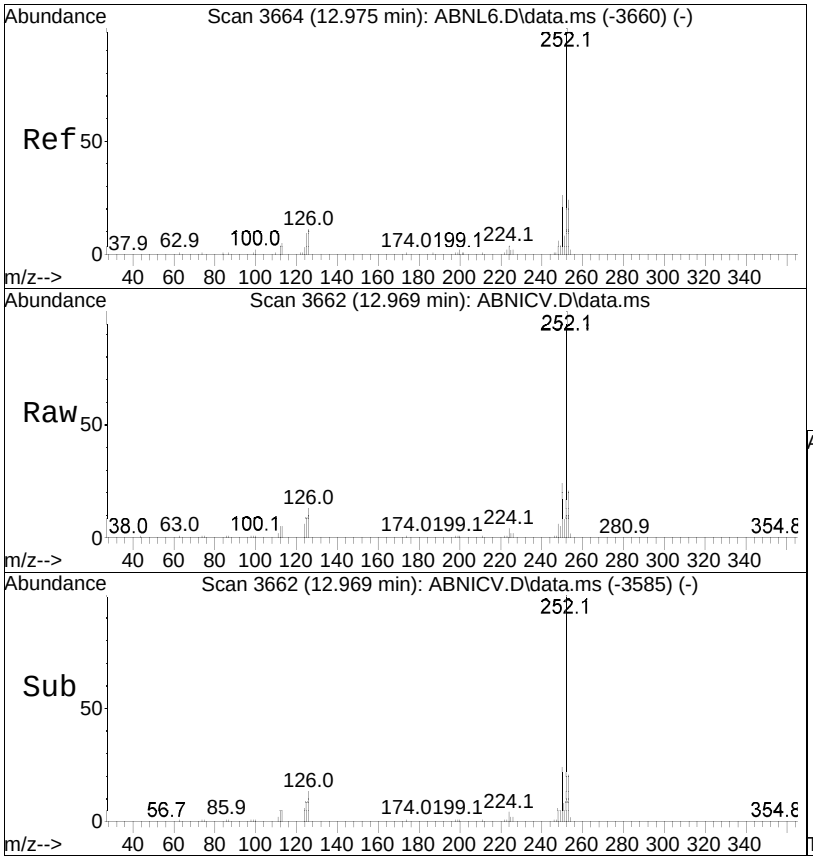


#110
Benzo(b)fluoranthene
Concen: 5.14 ug/ml
RT: 12.944 min Scan# 3654
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:252 Resp: 306810

Ion	Ratio	Lower	Upper
252	100		
125	9.3	13.3	19.9#
253	22.1	17.1	25.7

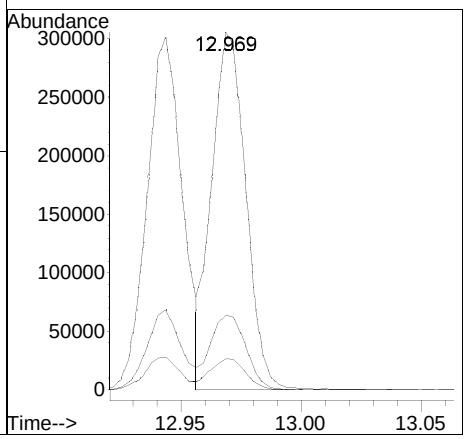


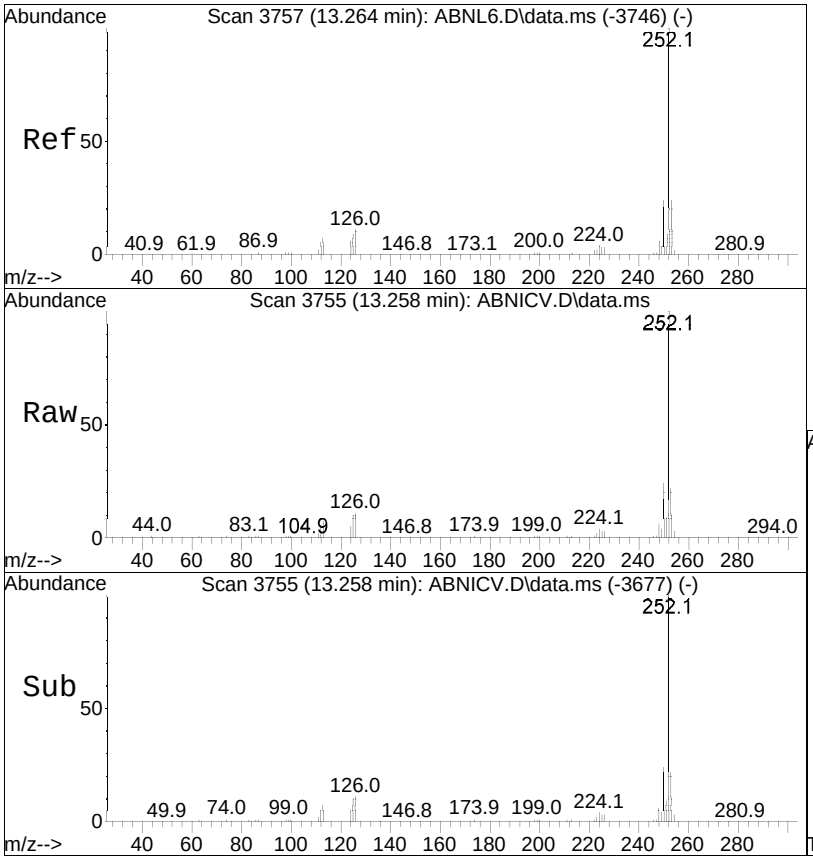


#111
Benzo(k)fluoranthene
Concen: 5.24 ug/ml
RT: 12.969 min Scan# 3662
Delta R.T. -0.009 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:252 Resp: 299712

Ion	Ratio	Lower	Upper
252	100		
125	8.9	13.0	19.6#
253	21.8	16.8	25.2

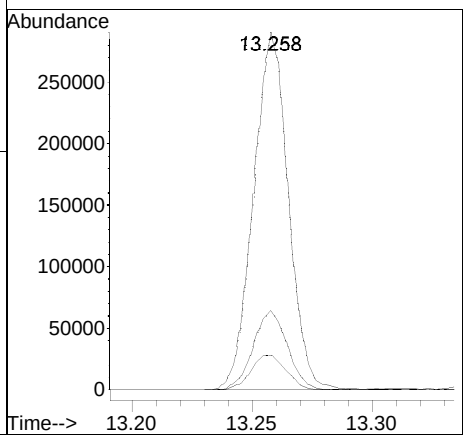


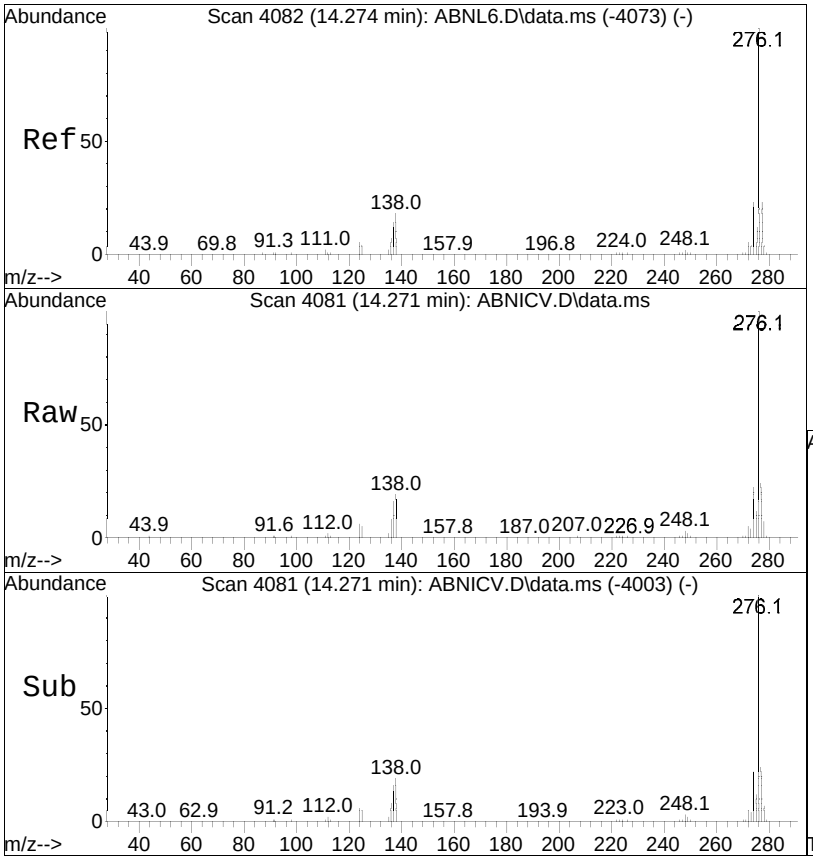


#112
Benzo(a)pyrene
Concen: 5.45 ug/ml
RT: 13.258 min Scan# 3755
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:252 Resp: 289885

Ion	Ratio	Lower	Upper
252	100		
125	10.0	14.2	21.2#
253	22.0	16.9	25.3

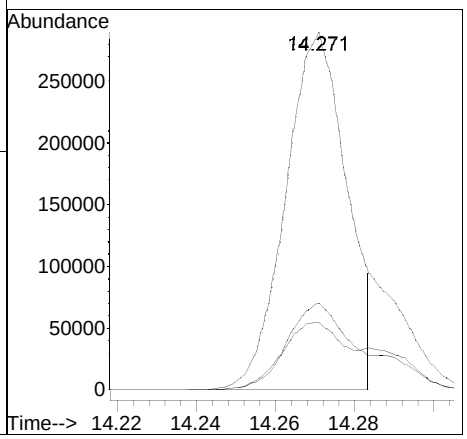


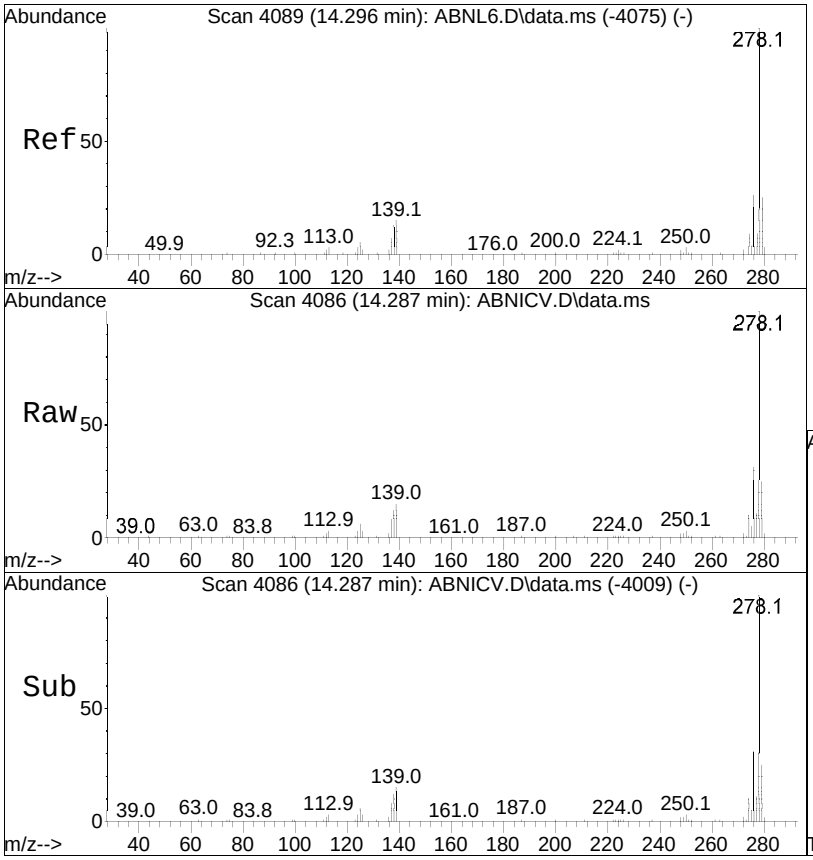


#114
Indeno(1,2,3-cd)pyrene
Concen: 5.52 ug/mL M6
RT: 14.271 min Scan# 4081
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:276 Resp: 314139

Ion	Ratio	Lower	Upper
276	100		
138	28.3	25.1	37.7
277	30.9	18.6	28.0#

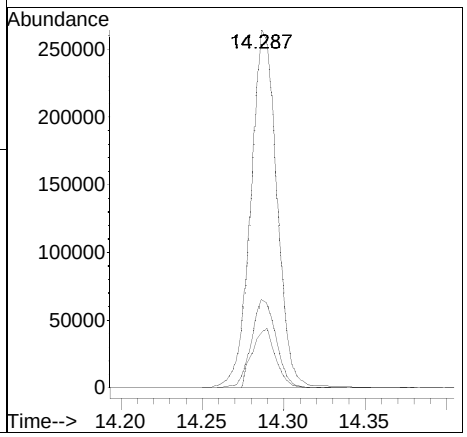


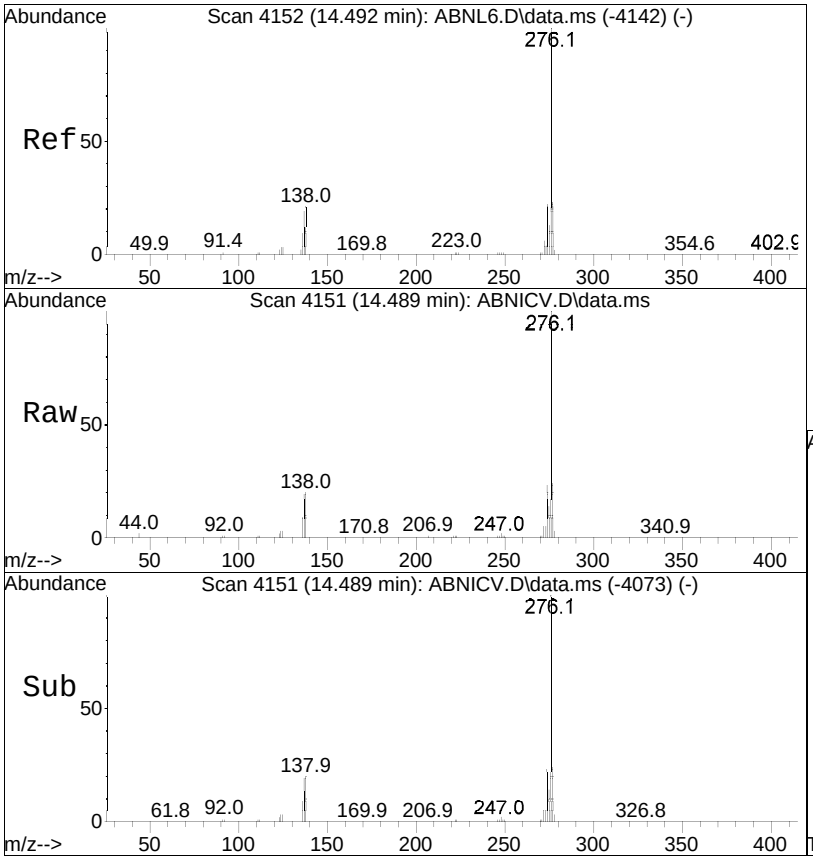


#115
Dibenzo(a,h)anthracene
Concen: 5.62 ug/ml
RT: 14.287 min Scan# 4086
Delta R.T. -0.009 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:278 Resp: 293839

Ion	Ratio	Lower	Upper
278	100		
139	14.9	20.8	31.2#
279	23.5	18.3	27.5

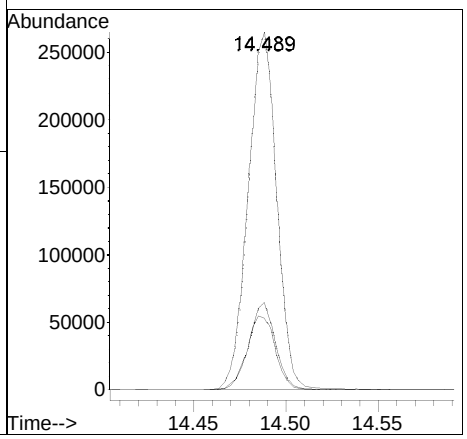




#116
Benzo(ghi)perylene
Concen: 5.41 ug/ml
RT: 14.489 min Scan# 4151
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 1 Jun 2024 1:00 am

Tgt Ion:276 Resp: 282202

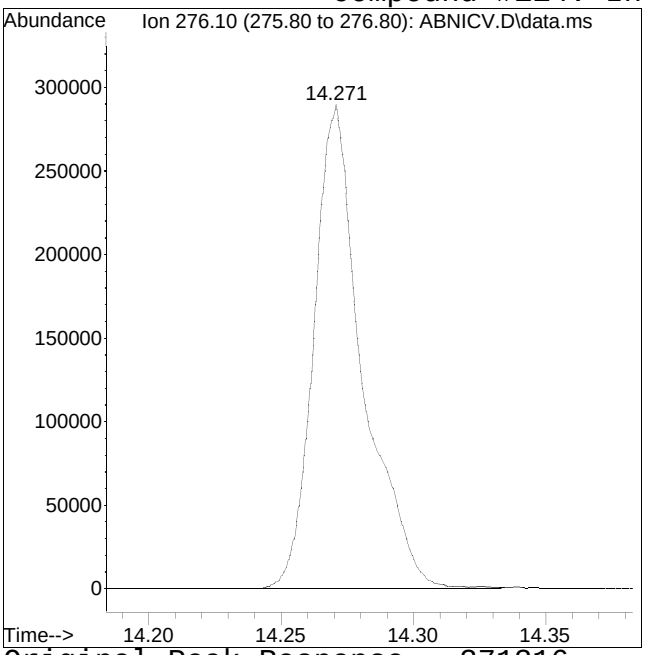
Ion	Ratio	Lower	Upper
276	100		
138	20.8	29.2	43.8#
277	23.0	18.8	28.2



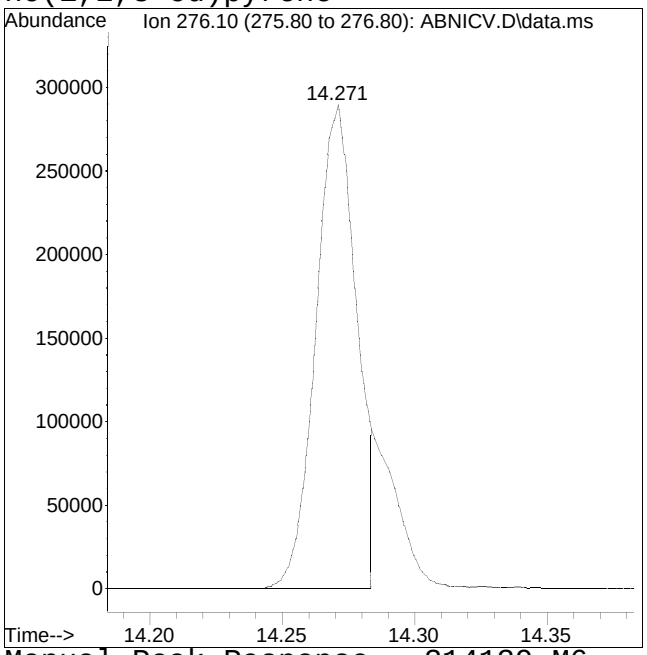
Manual Integration Report

Data Path : I:\8270\Dakota\240531ical\QMethod : FS240531_14D_Dakota.m
Data File : ABNICV.D Operator : Dakota:mrg
Date Inj'd : 6/1/2024 1:00 am Instrument : Dakota
Sample : CQICV1,32,,ABNICV Lot# 106Quant Date : 6/5/2024 5:46 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 371316



Manual Peak Response = 314139 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240531ical\
Data File : AP9ICV.D
Acq On : 1 Jun 2024 1:22 am
Operator : Dakota:mrg
Sample : CQICV2,32,,AP9ICV Lot# 10689
Misc : WG1930266
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 05 18:03:25 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:03:57 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	95	0.00
28	T	Benzaldehyde		0.959	0.924	3.6	104	0.00
29	T	Acetophenone		1.593	1.635	-2.6	102	0.00
30	T	m-Toluidine		1.457	1.501	-3.0	100	0.00
31	T	2-Chloroaniline		1.441	1.451	-0.7	99	0.00
55	I	IS2_Naphthalene-d8		1.000	1.000	0.0	98	0.00
56	T	a-Terpineol		0.248	0.241	2.8	102	0.00
57	T	3-Chloroaniline		0.136	0.138	-1.5	106	0.00
58	T	2,6-Dichlorophenol		0.319	0.331	-3.8	105	0.00
59	T	1-chloro-2-nitrobenzene		0.121	0.123	-1.7	105	0.00
60	T	Caprolactam		0.129	0.129	0.0	103	0.00
61	T	1,2,4,5-Tetrachlorobenzene		0.449	0.444	1.1	103	0.00
62	T	Biphenyl		0.931	0.893	4.1	101	0.00
83	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	98	0.00
84	T	Dichloran	*	5.000	4.676	6.5	113	0.00
85	T	Pentachloronitrobenzene		0.160	0.165	-3.1	100	0.00
98	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	101	0.00
99	T	Diphenamid		0.471	0.454	3.6	101	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : AP9ICV.D
Acq On : 1 Jun 2024 1:22 am
Operator : Dakota:mrg
Sample : CQICV2,32,,AP9ICV Lot# 10689
Misc : WG1930266
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 05 18:03:25 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:03:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.826	152	29018	4.000	ug/ml	0.00
Standard Area 3 = 30508			Recovery = 95.12%			
55) IS2_Naphthalene-d8	6.060	136	102993	4.000	ug/ml	0.00
Standard Area 3 = 104918			Recovery = 98.17%			
83) IS2_Acenaphthene-d10	7.766	164	68508	4.000	ug/ml	0.00
Standard Area 3 = 69949			Recovery = 97.94%			
98) IS2_Phenanthrene-d10	9.199	188	162617	4.000	ug/ml	0.00
Standard Area 3 = 160290			Recovery = 101.45%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.397	105	33511	4.816	ug/ml	98
29) Acetophenone	5.223	105	59305	5.131	ug/ml#	80
30) m-Toluidine	5.304	106	54437	5.152	ug/ml	96
31) 2-Chloroaniline	5.665	127	52644	5.037	ug/ml#	92
56) a-Terpineol	6.112	59	31074	4.876	ug/ml#	69
57) 3-Chloroaniline	6.128	65	17708	5.042	ug/ml	94
58) 2,6-Dichlorophenol	6.156	162	42595	5.190	ug/ml#	81
59) 1-chloro-2-nitrobenzene	6.408	111	15815	5.095	ug/ml#	1
60) Caprolactam	6.439	55	16664	5.015	ug/ml#	71
61) 1,2,4,5-Tetrachloroben...	6.927	216	57189	4.946	ug/ml#	95
62) Biphenyl	7.219	154	115010	4.799	ug/ml	97
84) Dichloran	8.891	206	13766	4.676	ug/ml#	67
85) Pentachloronitrobenzene	9.046	237	14138	5.143	ug/ml#	80
99) Diphenamid	10.097	167	92186	4.815	ug/ml#	74

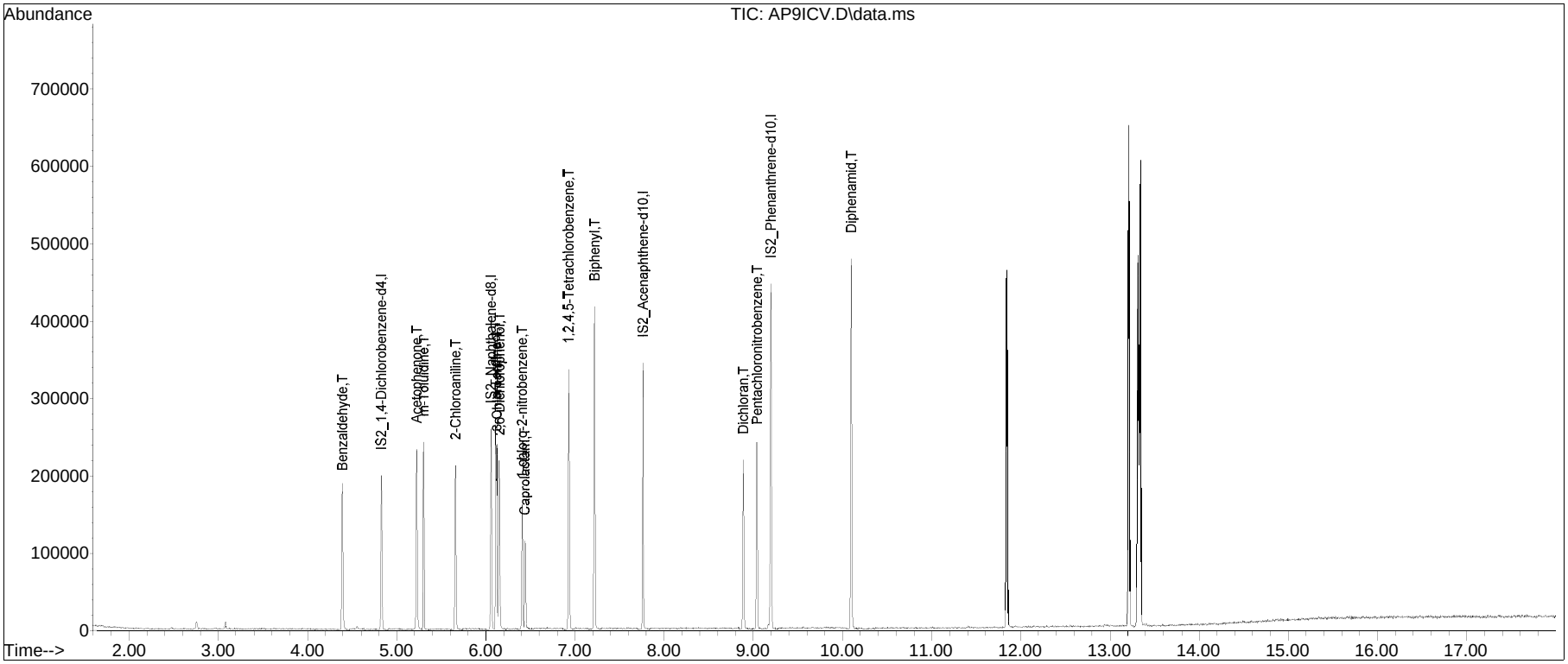
(#) = qualifier out of range (m) = manual integration (+) = signals summed

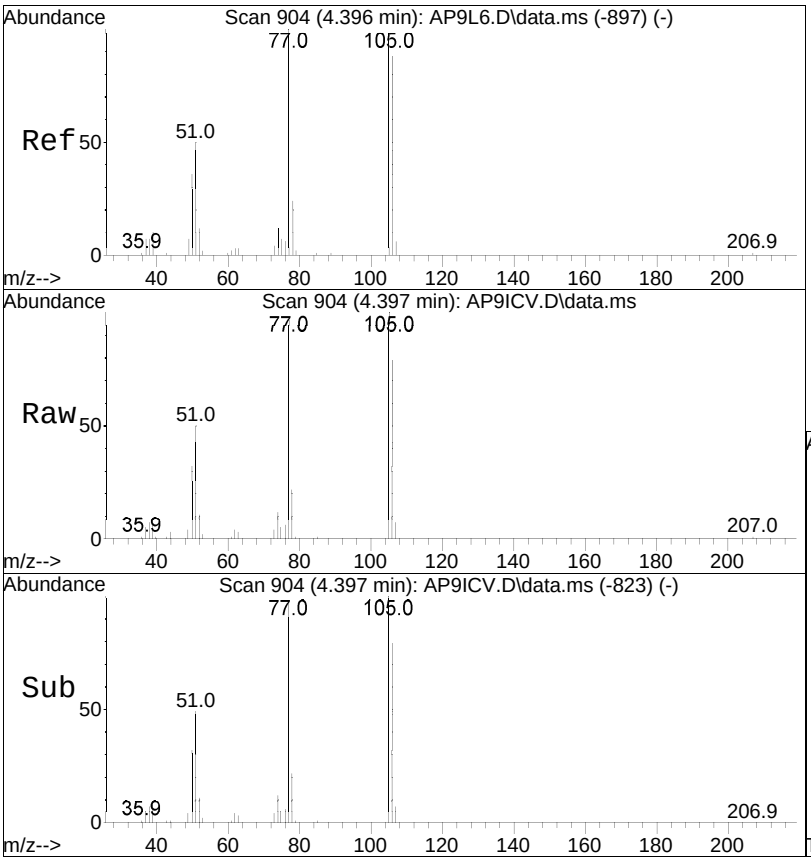
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : AP9ICV.D
Acq On : 1 Jun 2024 1:22 am
Operator : Dakota:mrg
Sample : CQICV2,32,,AP9ICV Lot# 10689
Misc : WG1930266
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 05 18:03:25 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:03:57 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L6.D•

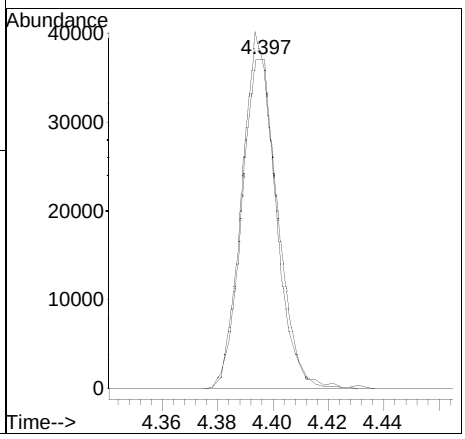


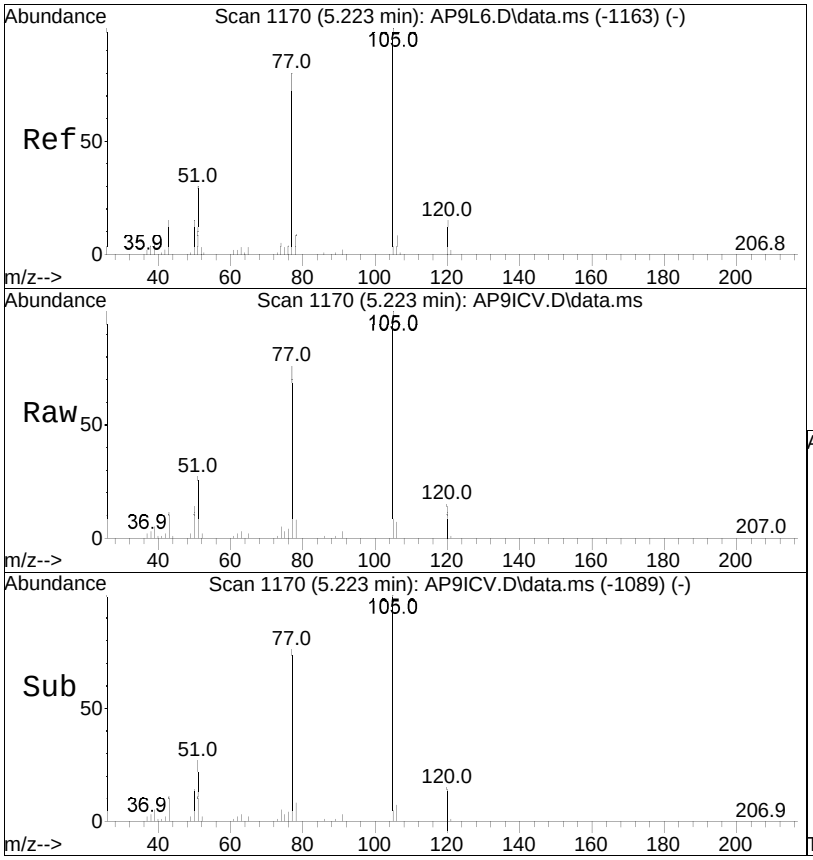


#28
Benzaldehyde
Concen: 4.82 ug/ml
RT: 4.397 min Scan# 904
Delta R.T. 0.001 min
Lab File: AP9ICV.D
Acq: 1 Jun 2024 1:22 am

Tgt Ion:105 Resp: 33511

Ion	Ratio	Lower	Upper
105	100		
77	100.7	82.2	123.4

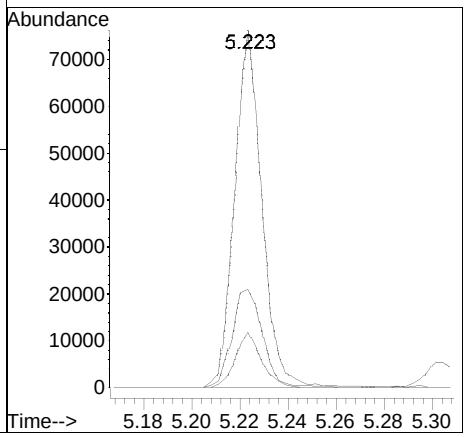


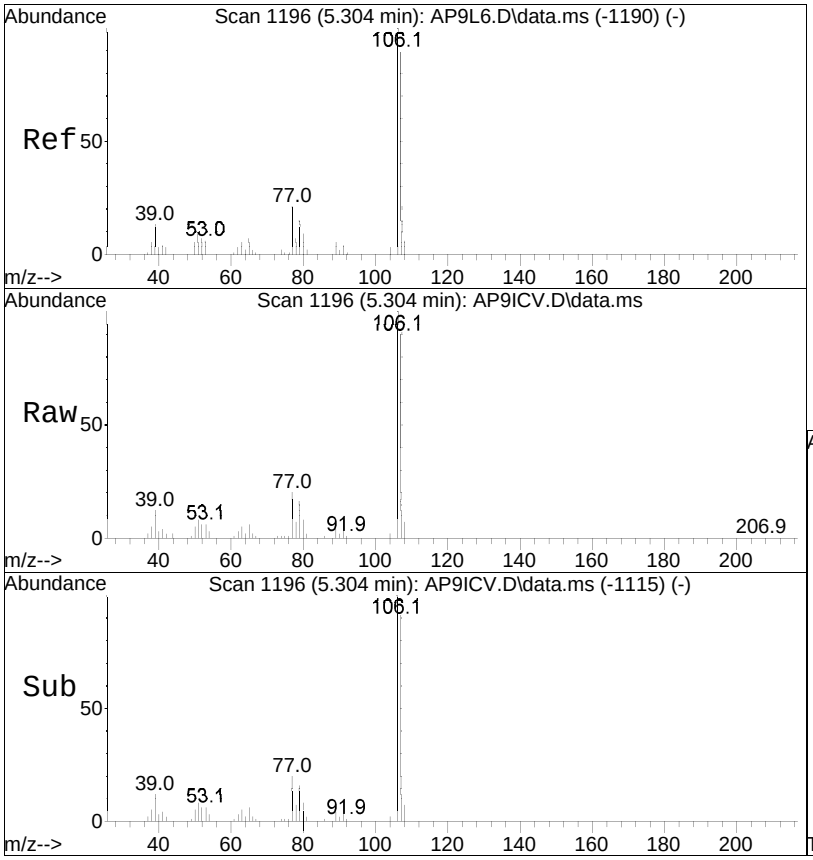


#29
Acetophenone
Concen: 5.13 ug/ml
RT: 5.223 min Scan# 1170
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 1 Jun 2024 1:22 am

Tgt Ion:105 Resp: 59305

Ion	Ratio	Lower	Upper
105	100		
120	14.8	20.5	30.7#
51	30.8	34.9	52.3#

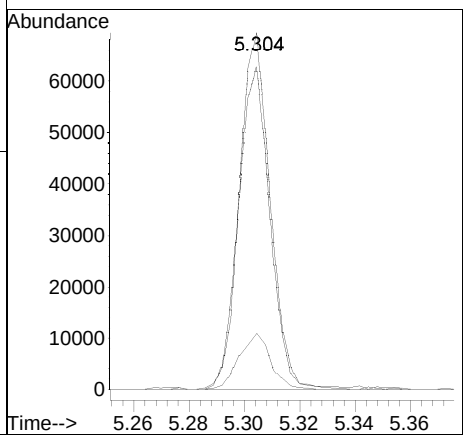


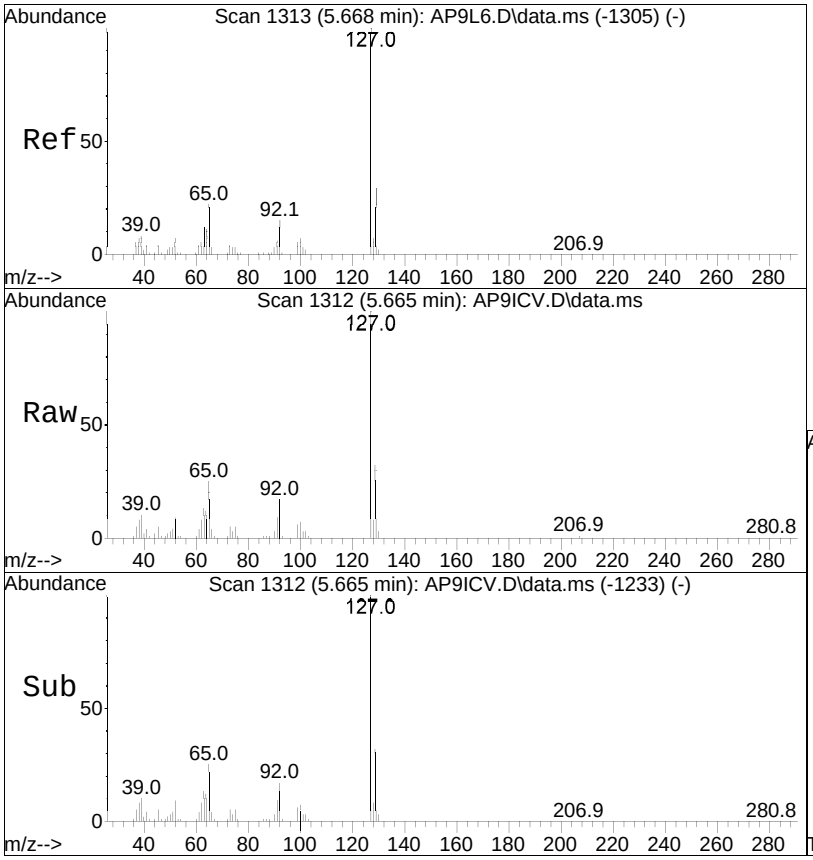


#30
m-Toluidine
Concen: 5.15 ug/ml
RT: 5.304 min Scan# 1196
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 1 Jun 2024 1:22 am

Tgt Ion:106 Resp: 54437

Ion	Ratio	Lower	Upper
106	100		
107	90.4	75.7	113.5
79	15.9	11.8	17.8

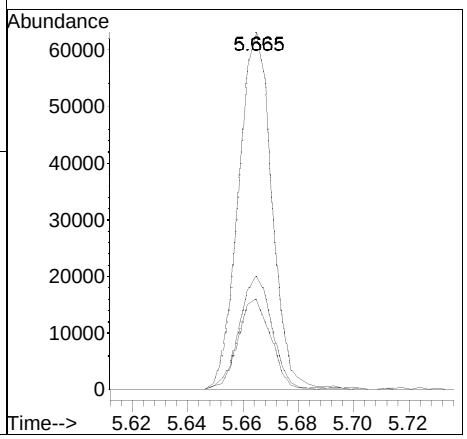


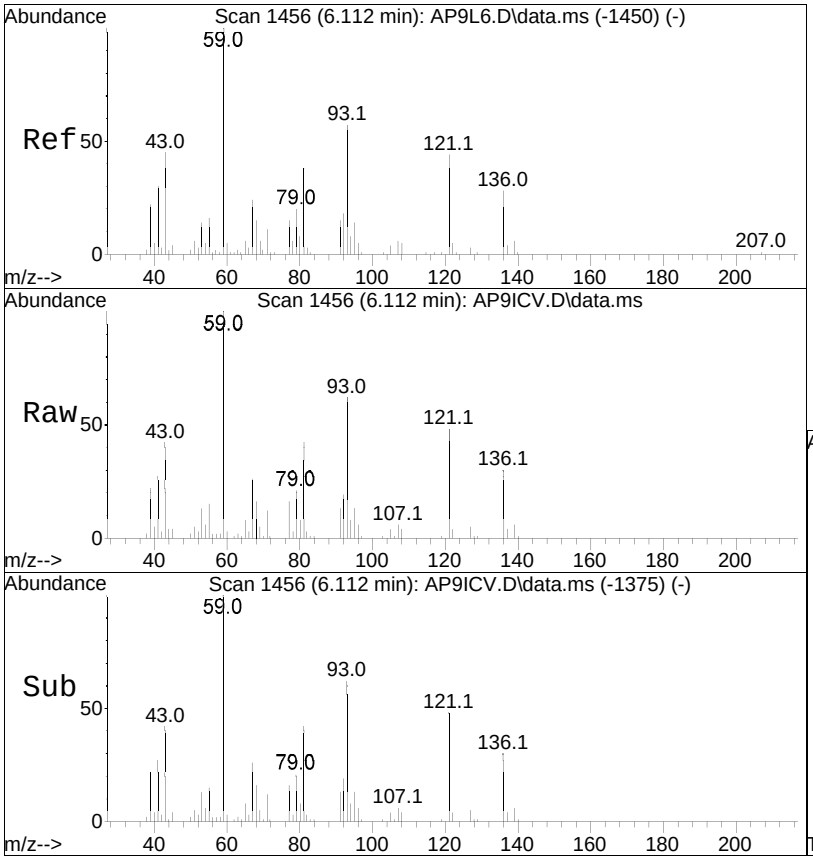


#31
2-Chloroaniline
Concen: 5.04 ug/ml
RT: 5.665 min Scan# 1312
Delta R.T. -0.003 min
Lab File: AP9ICV.D
Acq: 1 Jun 2024 1:22 am

Tgt Ion:127 Resp: 52644

Ion	Ratio	Lower	Upper
127	100		
129	31.1	25.9	38.9
65	24.9	26.3	39.5#

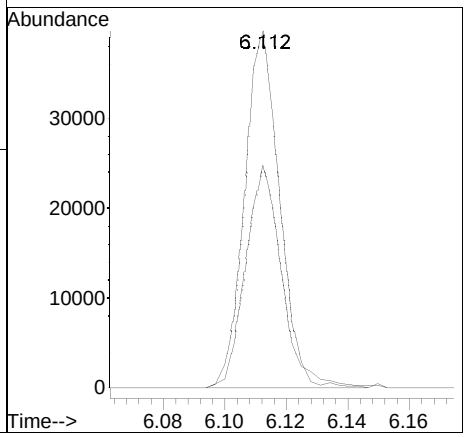


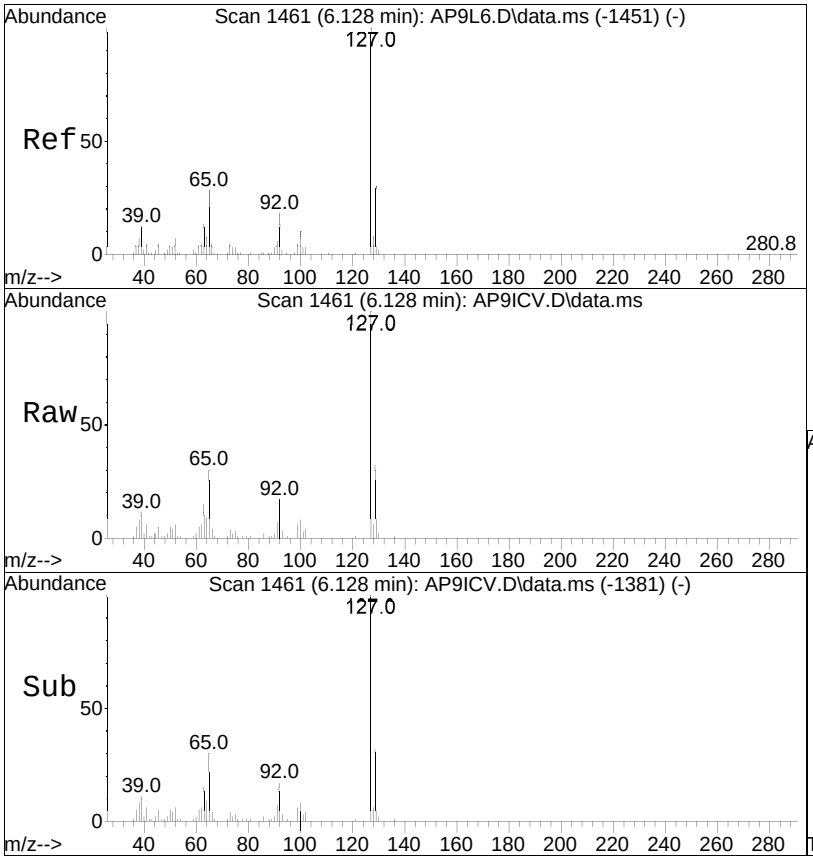


#56
a-Terpineol
Concen: 4.88 ug/ml
RT: 6.112 min Scan# 1456
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 1 Jun 2024 1:22 am

Tgt Ion: 59 Resp: 31074

Ion	Ratio	Lower	Upper
59	100		
93	64.9	35.6	53.4#

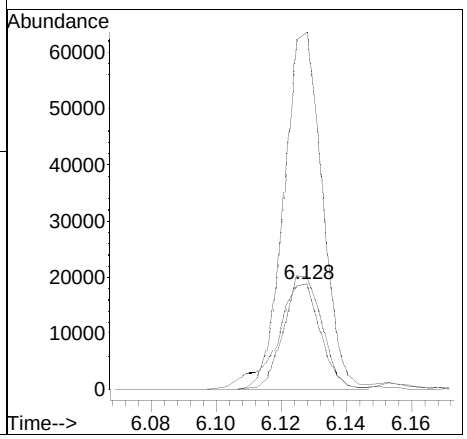


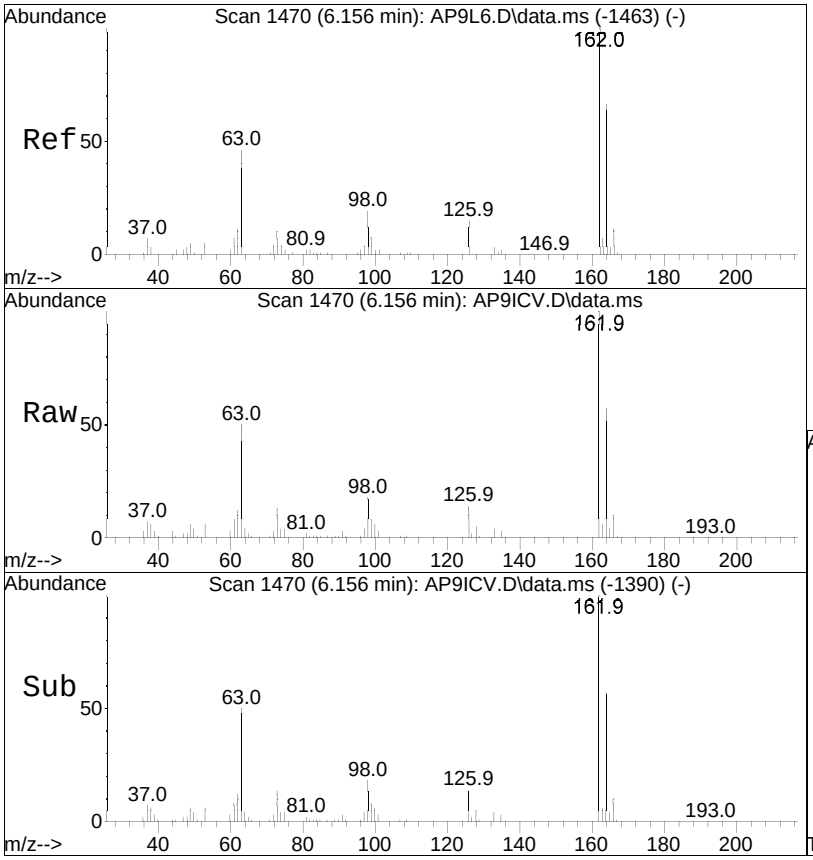


#57
3-Chloroaniline
Concen: 5.04 ug/ml
RT: 6.128 min Scan# 1461
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 1 Jun 2024 1:22 am

Tgt Ion: 65 Resp: 17708

Ion	Ratio	Lower	Upper
65	100		
127	291.0	243.2	364.8
129	94.4	78.8	118.2

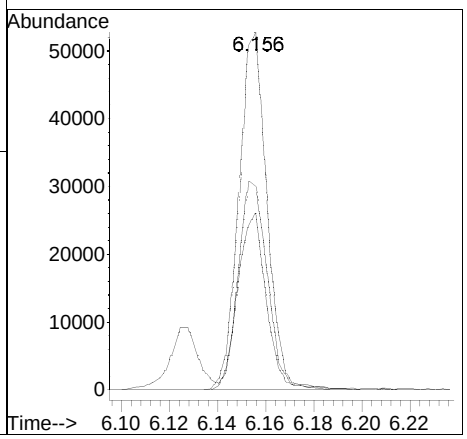


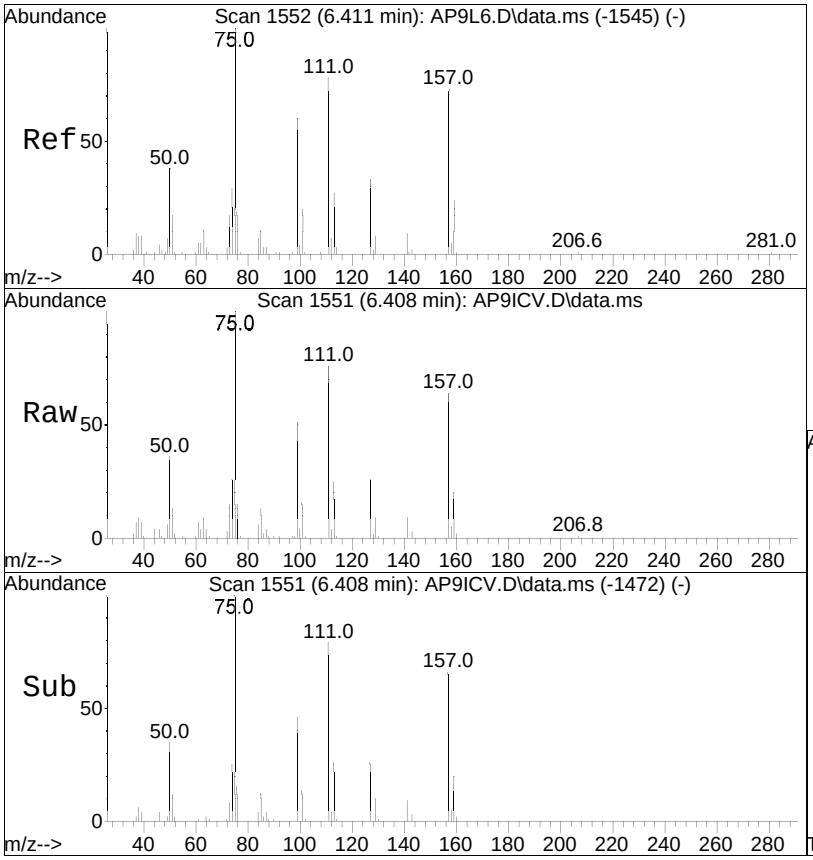


#58
2,6-Dichlorophenol
Concen: 5.19 ug/ml
RT: 6.156 min Scan# 1470
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 1 Jun 2024 1:22 am

Tgt Ion:162 Resp: 42595

Ion	Ratio	Lower	Upper
162	100		
164	60.5	51.1	76.7
63	49.9	60.8	91.2#

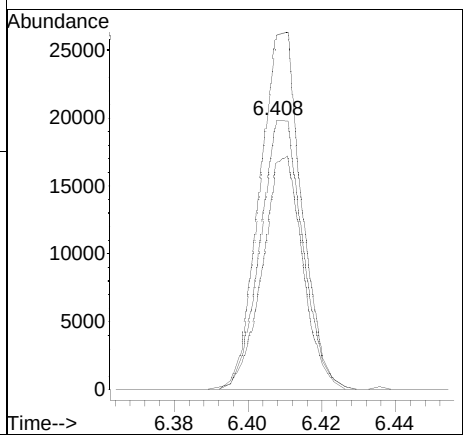


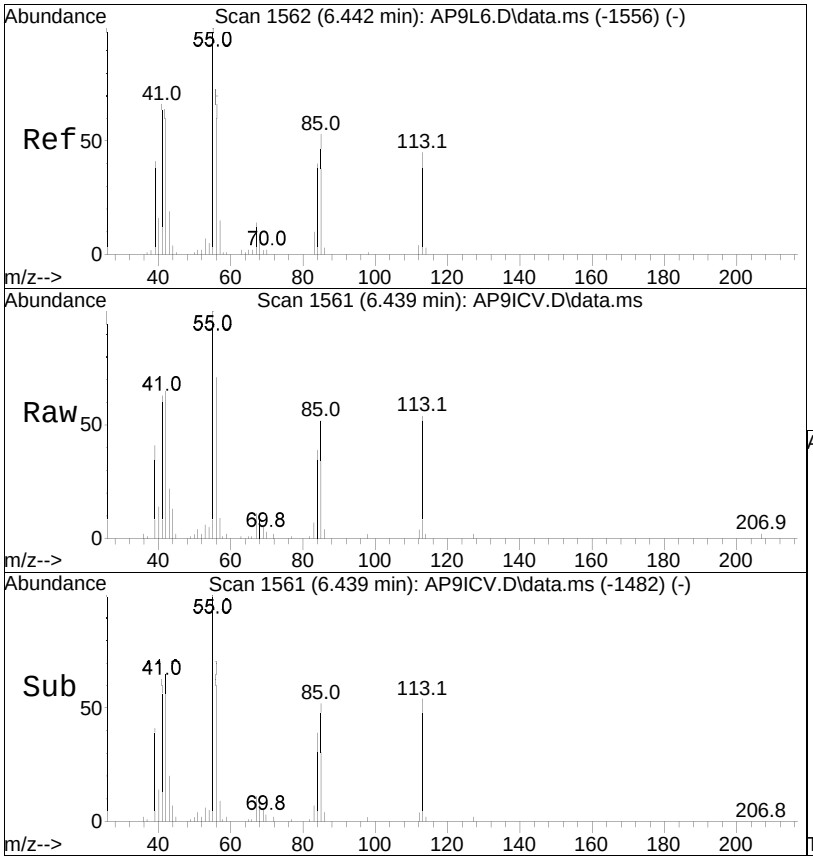


#59
1-chloro-2-nitrobenzene
Concen: 5.09 ug/ml
RT: 6.408 min Scan# 1551
Delta R.T. -0.003 min
Lab File: AP9ICV.D
Acq: 1 Jun 2024 1:22 am

Tgt Ion:111 Resp: 15815

Ion	Ratio	Lower	Upper
111	100		
157	82.1	0.0	0.0#
75	130.5	28.2	42.2#

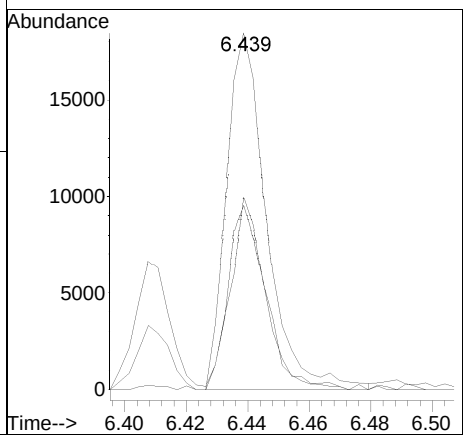


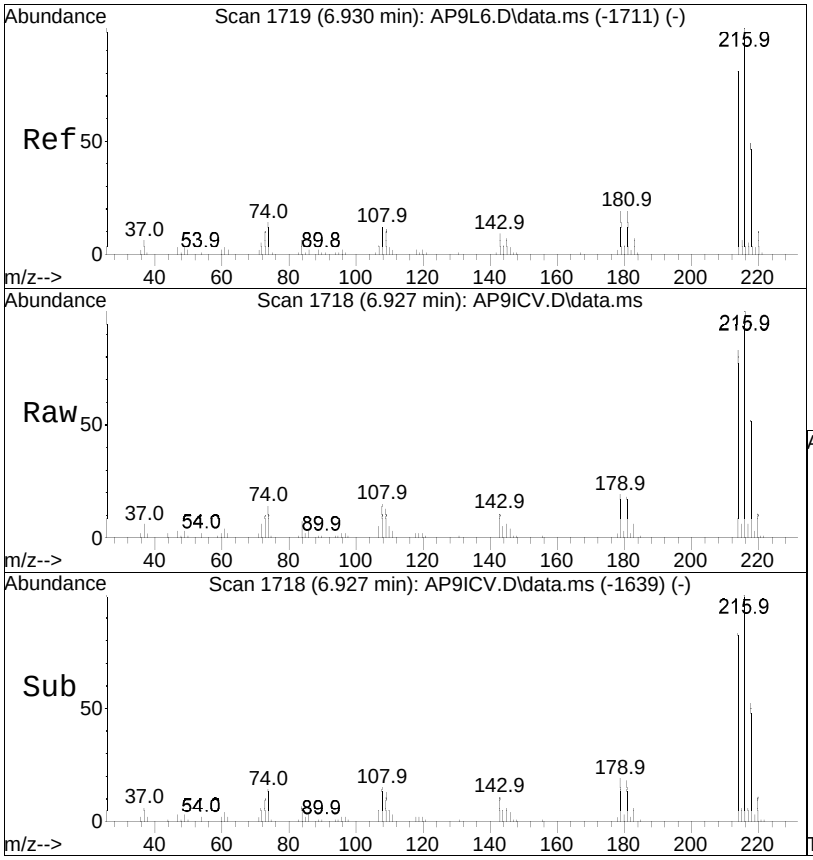


#60
Caprolactam
Concen: 5.01 ug/ml
RT: 6.439 min Scan# 1561
Delta R.T. -0.003 min
Lab File: AP9ICV.D
Acq: 1 Jun 2024 1:22 am

Tgt Ion: 55 Resp: 16664

Ion	Ratio	Lower	Upper
55	100		
85	48.2	19.8	29.6#
113	47.5	29.6	44.4#

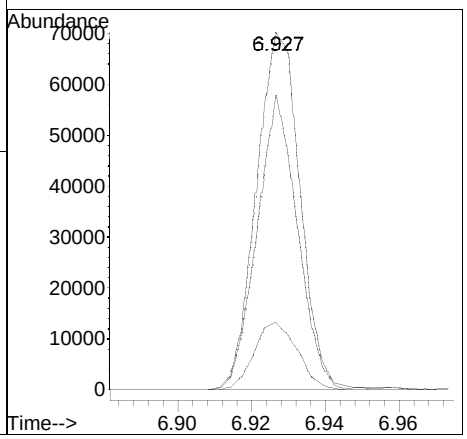


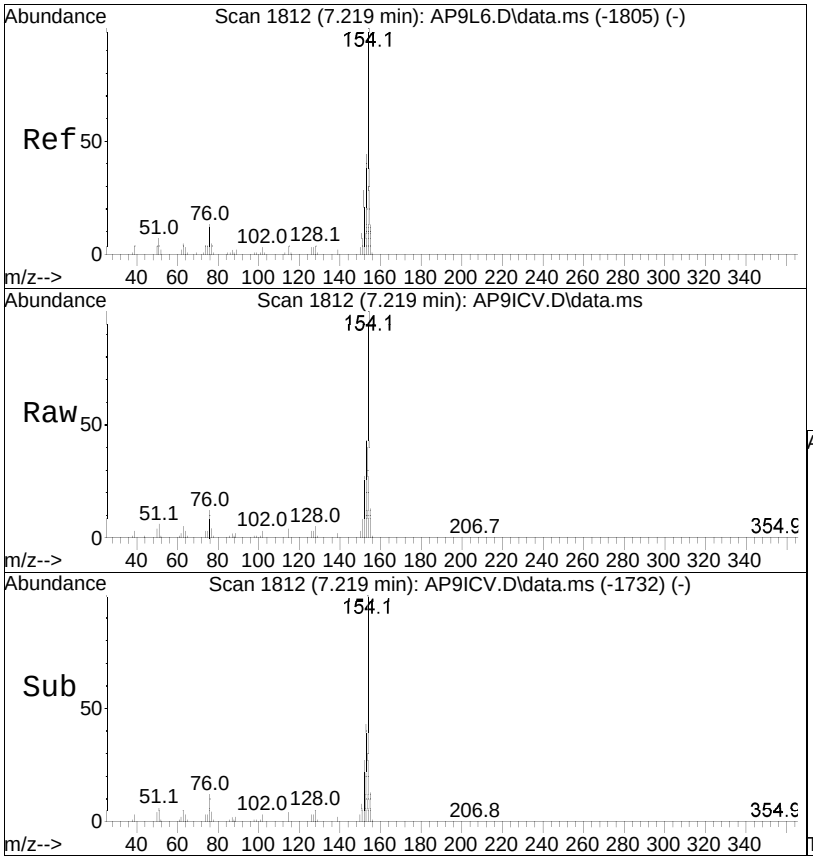


#61
1,2,4,5-Tetrachlorobenzene
Concen: 4.95 ug/ml
RT: 6.927 min Scan# 1718
Delta R.T. -0.003 min
Lab File: AP9ICV.D
Acq: 1 Jun 2024 1:22 am

Tgt Ion:216 Resp: 57189

Ion	Ratio	Lower	Upper
216	100		
214	76.4	63.7	95.5
179	18.8	19.0	28.6#

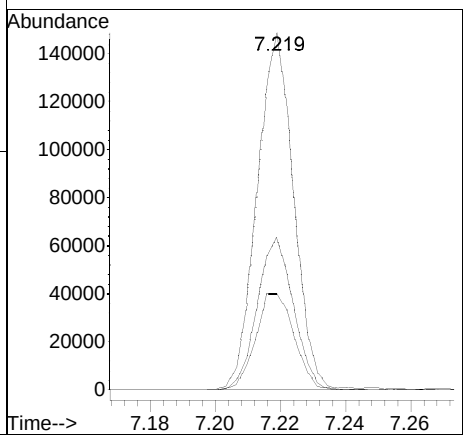


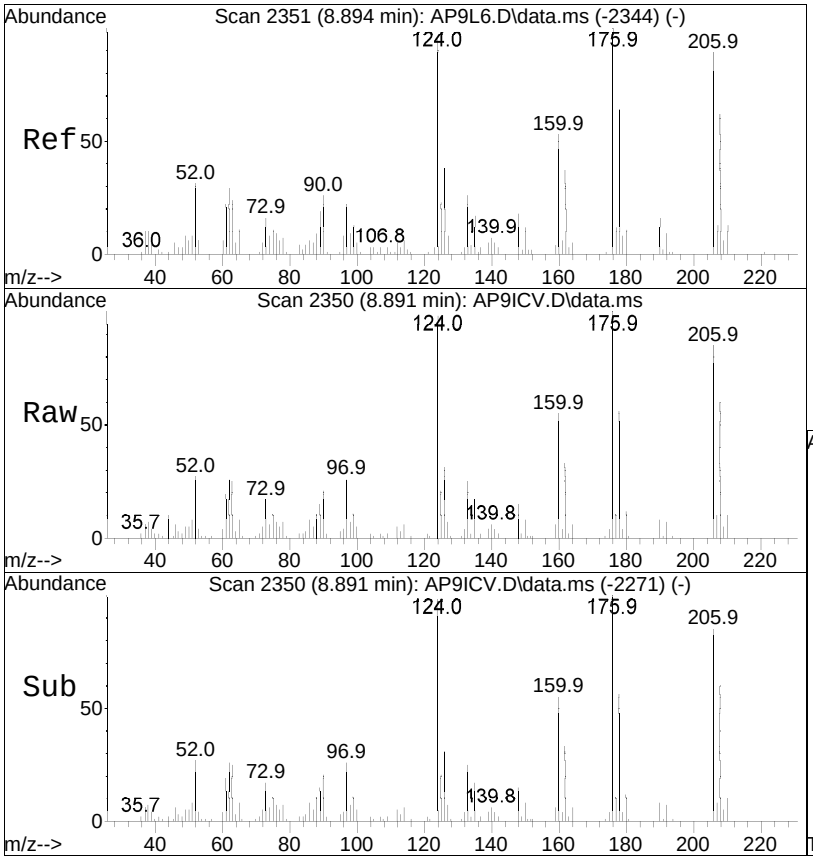


#62
Biphenyl
Concen: 4.80 ug/ml
RT: 7.219 min Scan# 1812
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 1 Jun 2024 1:22 am

Tgt Ion:154 Resp: 115010

Ion	Ratio	Lower	Upper
154	100		
153	42.5	32.3	48.5
152	28.8	22.5	33.7

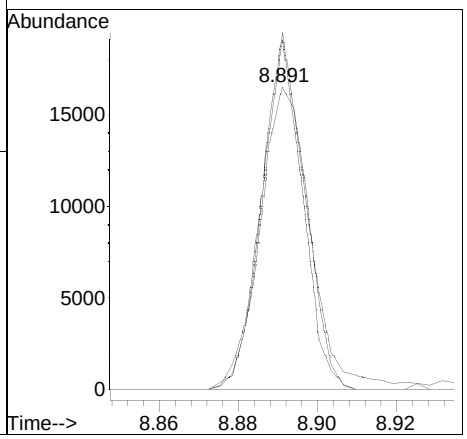


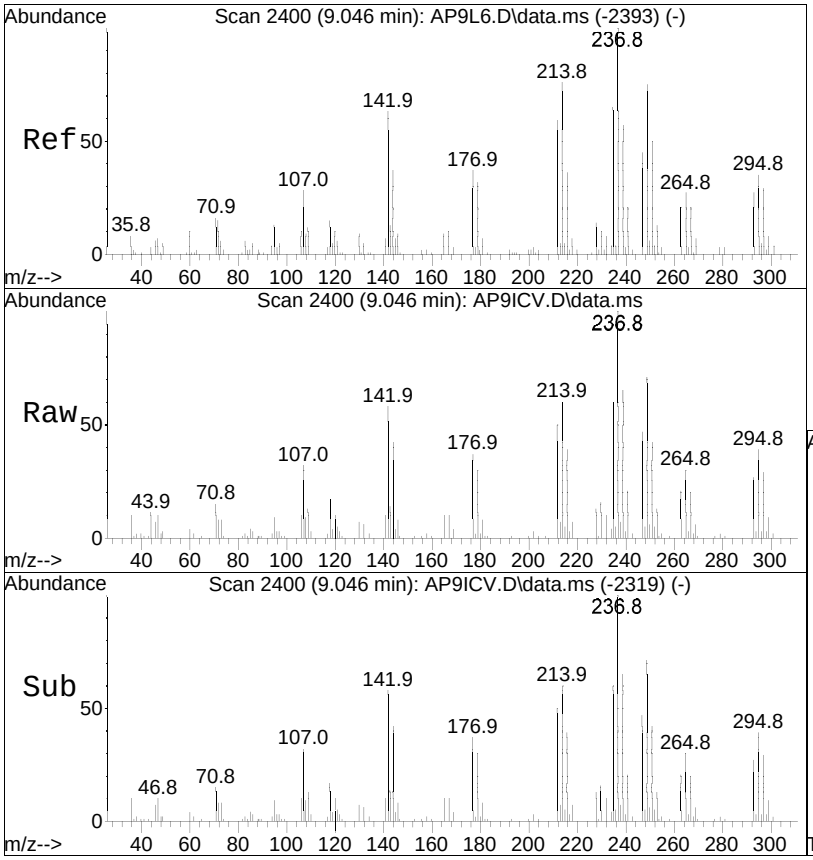


#84
Dichloran
Concen: 4.68 ug/ml
RT: 8.891 min Scan# 2350
Delta R.T. -0.003 min
Lab File: AP9ICV.D
Acq: 1 Jun 2024 1:22 am

Tgt Ion:206 Resp: 13766

Ion	Ratio	Lower	Upper
206	100		
176	112.4	104.6	157.0
124	100.6	130.5	195.7#

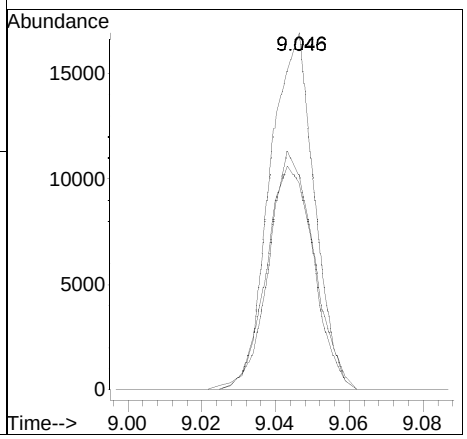


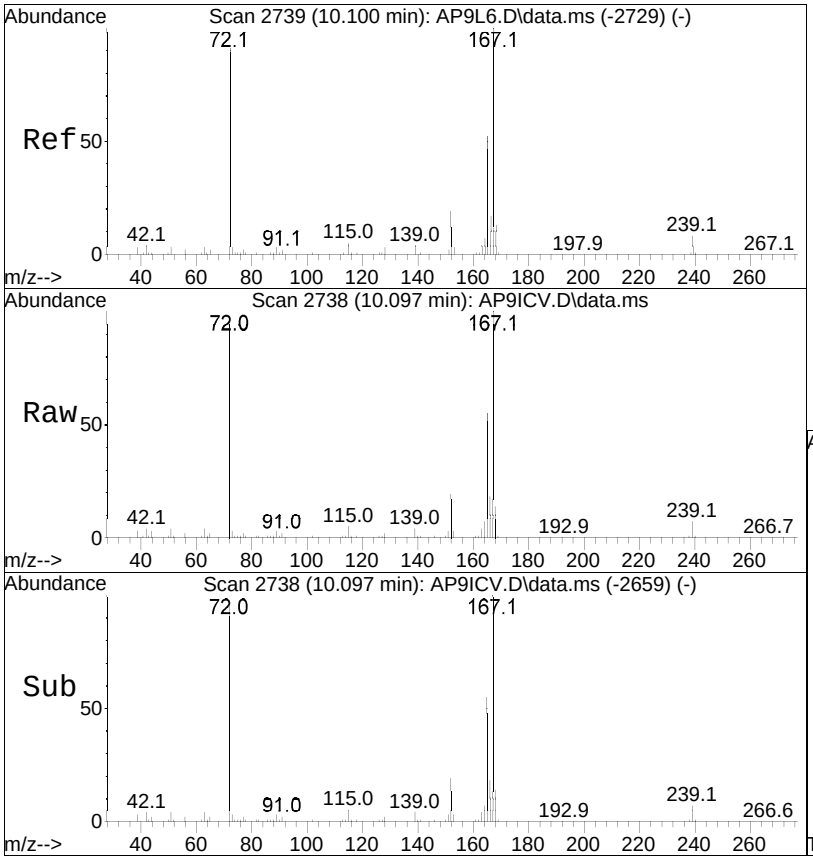


#85
Pentachloronitrobenzene
Concen: 5.14 ug/ml
RT: 9.046 min Scan# 2400
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 1 Jun 2024 1:22 am

Tgt Ion:237 Resp: 14138

Ion	Ratio	Lower	Upper
237	100		
142	66.8	77.0	115.4#
214	67.6	58.2	87.4

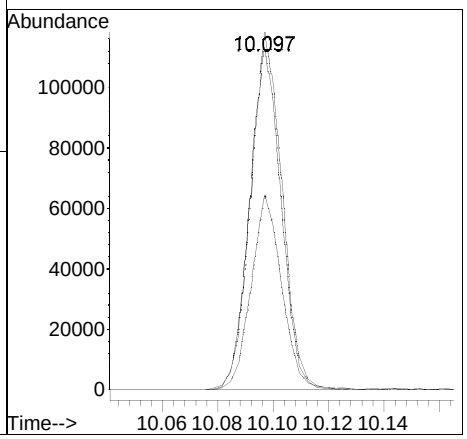




#99
Diphenamid
Concen: 4.81 ug/ml
RT: 10.097 min Scan# 2738
Delta R.T. -0.003 min
Lab File: AP9ICV.D
Acq: 1 Jun 2024 1:22 am

Tgt Ion:167 Resp: 92186

Ion	Ratio	Lower	Upper
167	100		
72	95.6	109.7	164.5#
165	53.5	41.8	62.6



Manual Integration Report

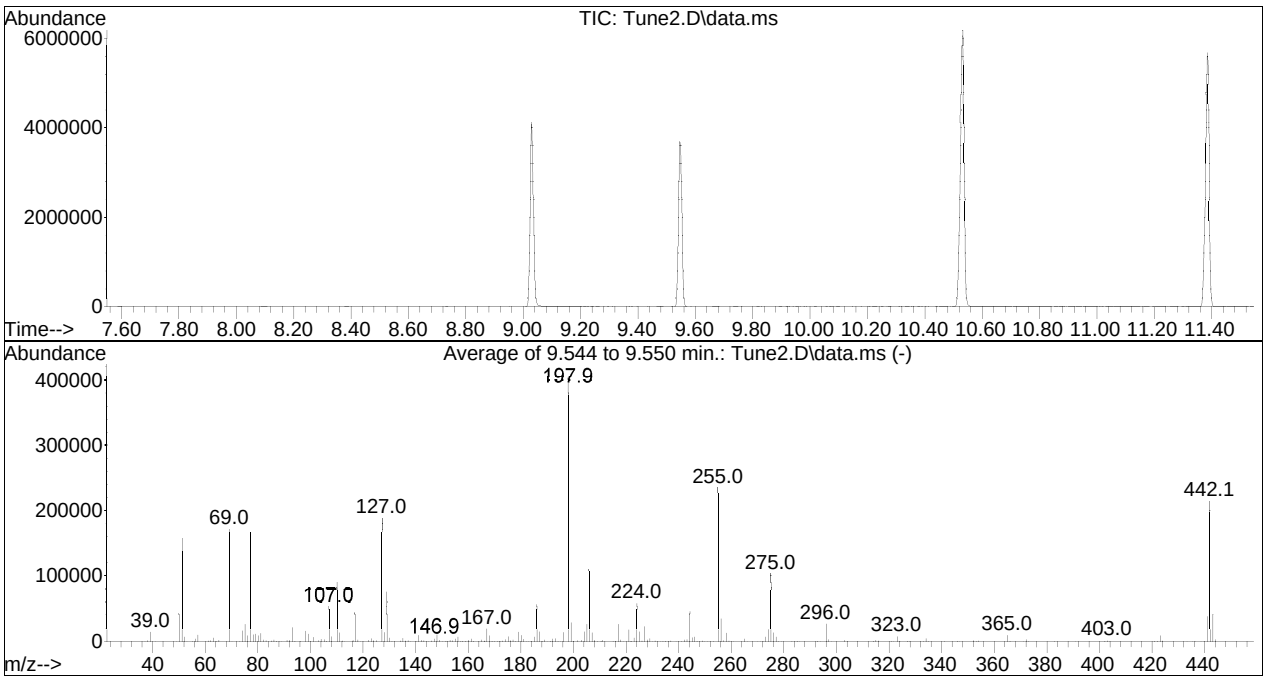
Data Path	: I:\8270\Dakota\240531ical\	QMethod	: FS240531_14D_Dakota.m
Data File	: AP9ICV.D	Operator	: Dakota:mrg
Date Inj'd	: 6/1/2024 1:22 am	Instrument	: Dakota
Sample	: CQICV2,32,,AP9ICV Lot# 106	Quant Date	: 6/5/2024 6:03 pm

There are no manual integrations or false positives in this file.

Data Path : I:\8270\Dakota\240531ical\
Data File : Tune2.D
Acq On : 1 Jun 2024 1:44 am
Operator : Dakota:mrg
Sample : Tune
Misc : WG1930266,,
ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Jun 05 17:45:08 2024



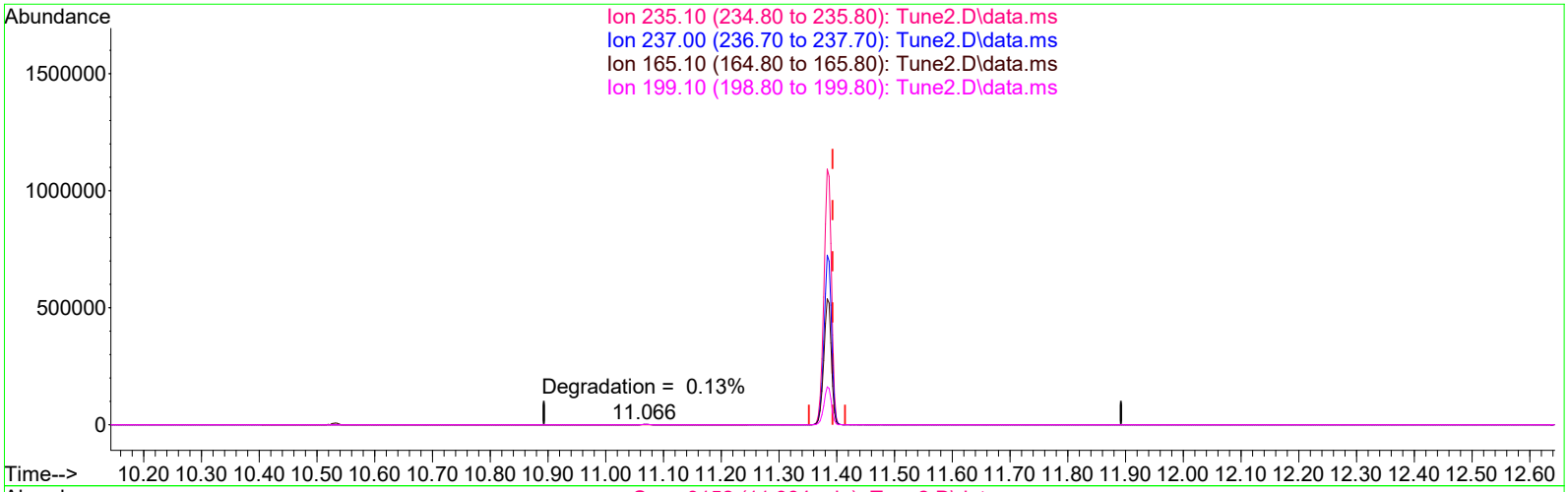
Spectrum Information: Average of 9.544 to 9.550 min.

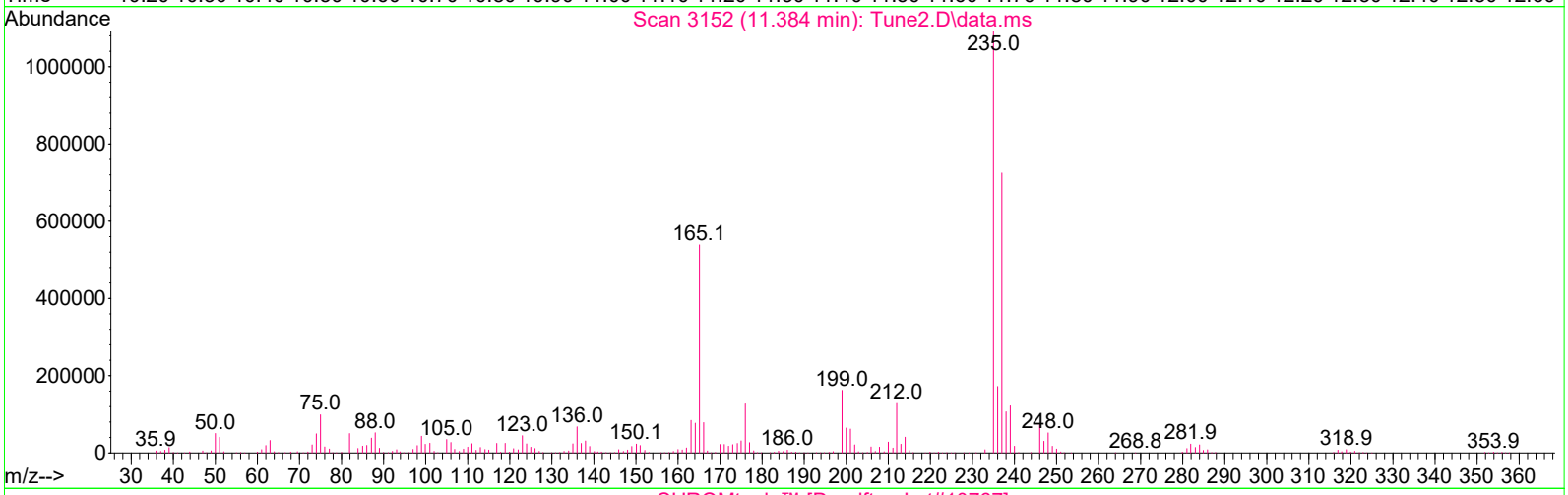
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	38.8	156715	PASS
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	171328	PASS
70	69	0.00	2	0.4	690	PASS
127	198	10	80	46.7	188224	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	403435	PASS
199	198	5	9	7.0	28261	PASS
275	198	10	60	25.7	103736	PASS
365	198	1	100	2.4	9696	PASS
441	442	0.01	24	17.1	36731	PASS
442	198	50	100	53.1	214315	PASS
443	442	15	24	19.0	40773	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240531ical\
Data File : Tune2.D
Acq On : 1 Jun 2024 1:44 am
Operator : Dakota:mrg
Sample : Degdftpp Lot#10767
Misc : WG1930266
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 01 16:10:15 2024
Quant Method : I:\8270\Dakota\240531ical\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri May 31 12:01:17 2024
Response via : Initial Calibration





CHROMtools™ [Degdftpp Lot#10767]

(6) DDT (T)

11.384min (-0.009) 163.27

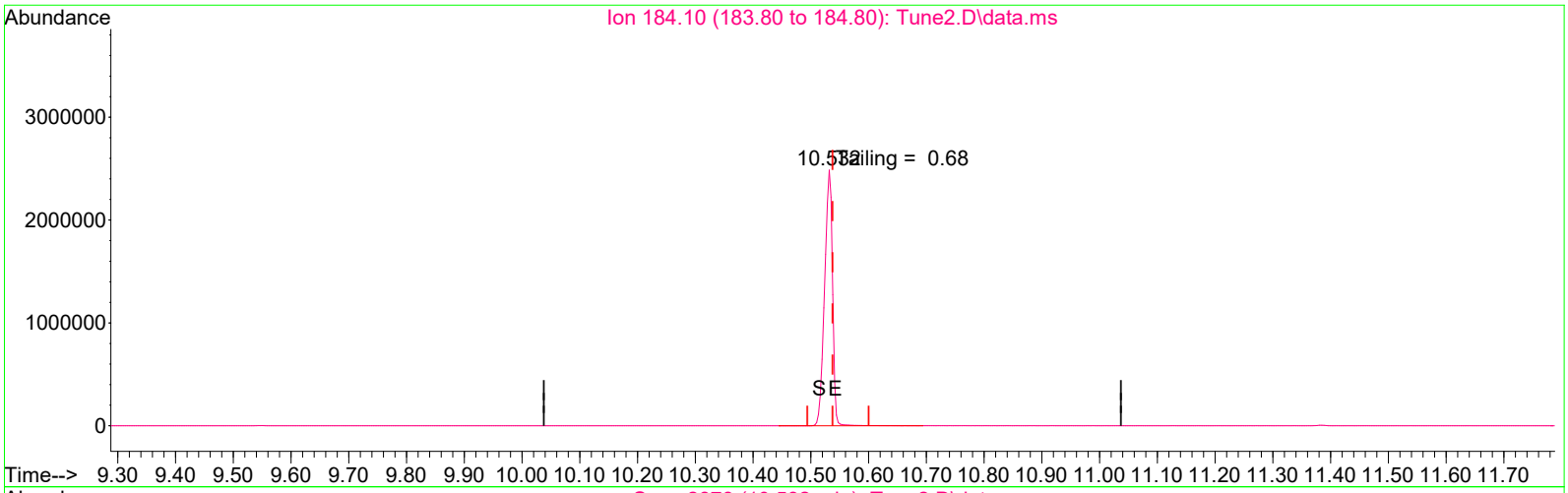
response 995255

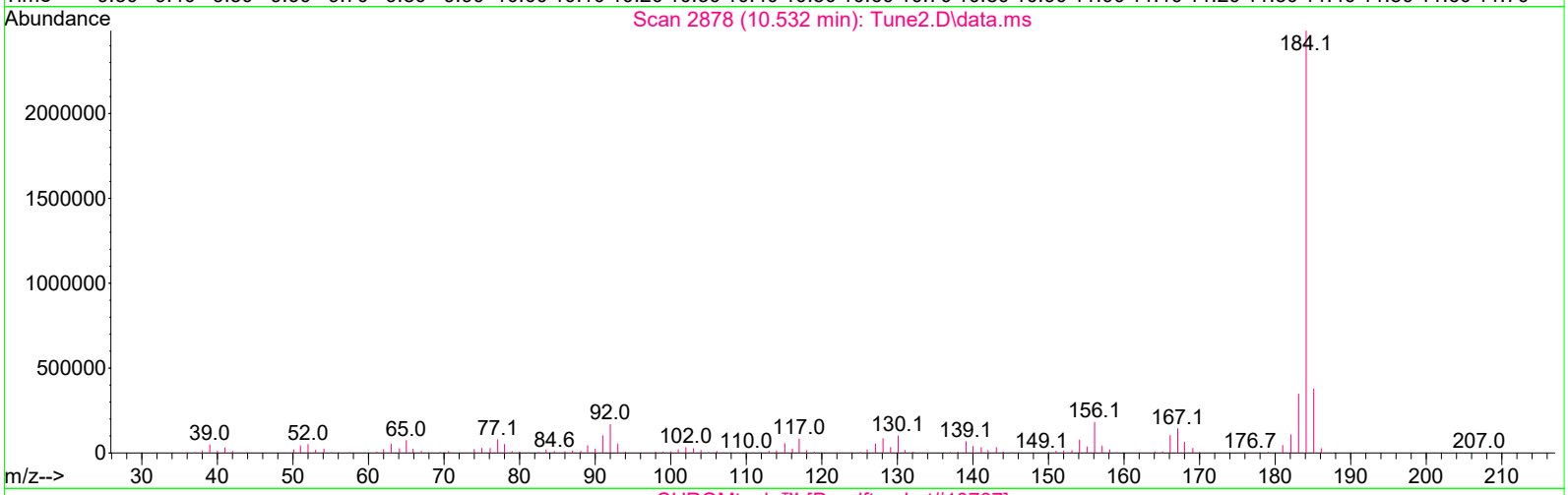
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	66.20	65.58
165.10	47.40	48.38
199.10	13.90	14.71

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240531ical\
Data File : Tune2.D
Acq On : 1 Jun 2024 1:44 am
Operator : Dakota:mrg
Sample : Degdftpp Lot#10767
Misc : WG1930266
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 01 16:10:15 2024
Quant Method : I:\8270\Dakota\240531ical\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri May 31 12:01:17 2024
Response via : Initial Calibration





CHROMtools™ [Degdftpp Lot#10767]

(3) Benzidine (T)

10.532min (-0.006) 233.08

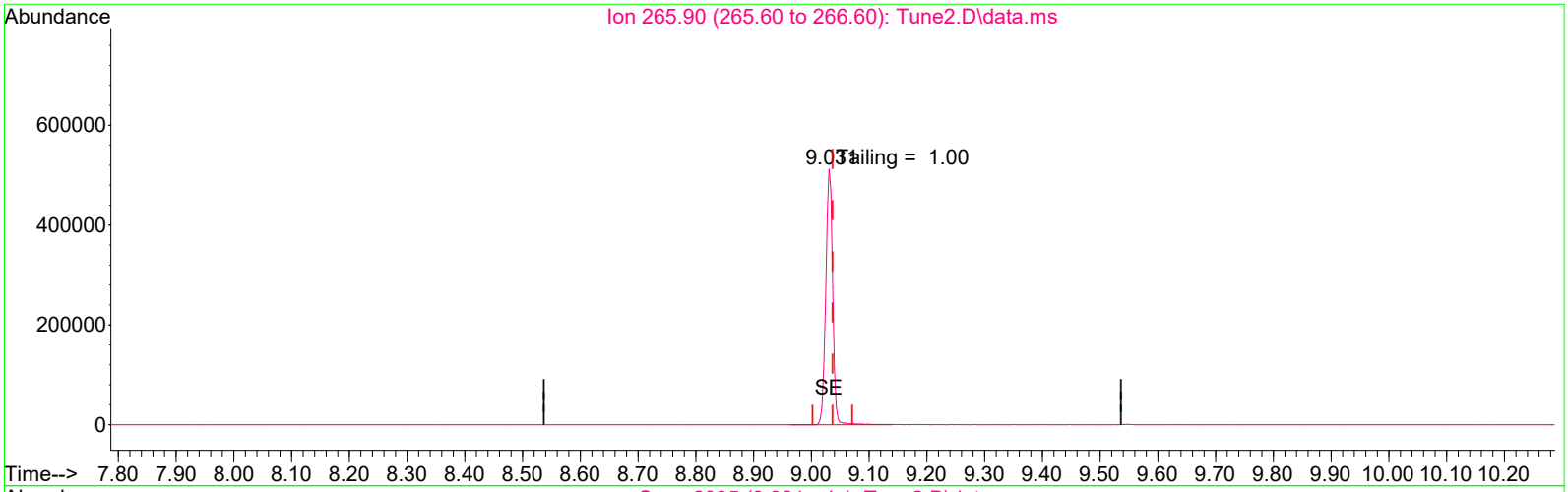
response 2372815

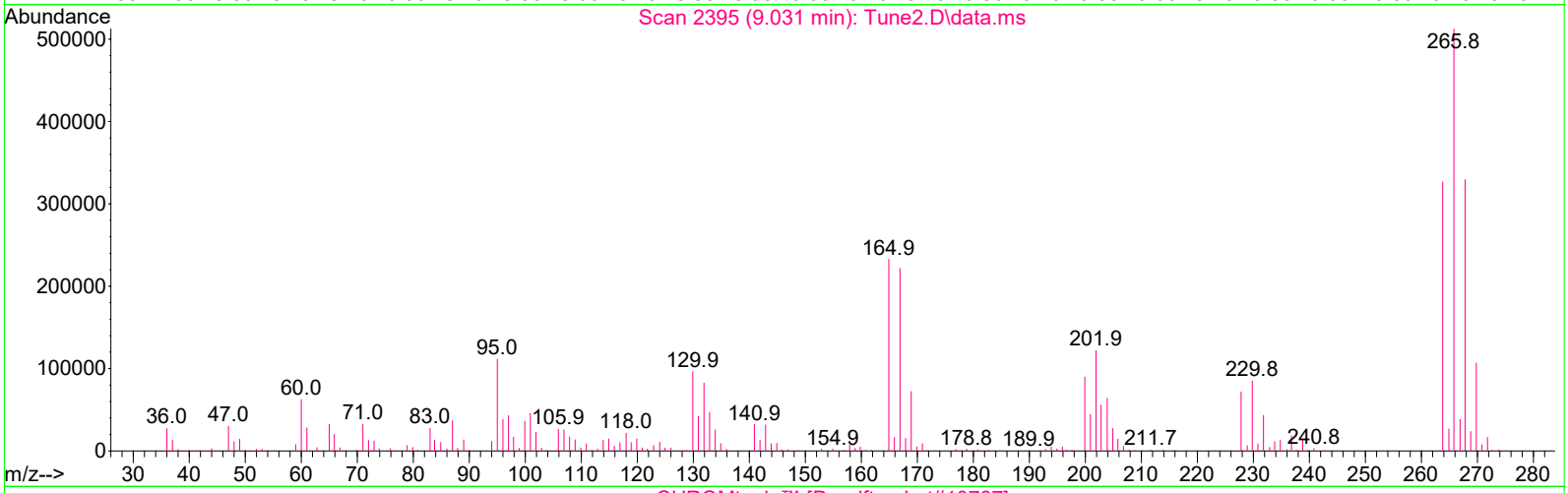
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240531ical\
Data File : Tune2.D
Acq On : 1 Jun 2024 1:44 am
Operator : Dakota:mrg
Sample : Degdftpp Lot#10767
Misc : WG1930266
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 01 16:10:15 2024
Quant Method : I:\8270\Dakota\240531ical\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri May 31 12:01:17 2024
Response via : Initial Calibration





CHROMtools™ [Degdftpp Lot#10767]

(1) Pentachlorophenol (T)

9.031min (-0.006) 201.72

response 423684

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ADPL9.D
Acq On : 1 Jun 2024 2:07 am
Operator : Dakota:mrg
Sample : IL2,32,,ADPL50 Lot# 10709
Misc : WG1930266
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 05 18:12:57 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:13:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.826	152	27680	4.000	ug/ml	0.00
Standard Area 2 = 31871			Recovery =	86.85%		
86) IS3_Acenaphthene-d10	7.766	164	71407	4.000	ug/ml	0.00
Standard Area 2 = 75943			Recovery =	94.03%		
100) IS3_Phenanthrene-d10	9.199	188	158564	4.000	ug/ml	0.00
Standard Area 2 = 177659			Recovery =	89.25%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.920	88	152395	50.071	ug/ml#	31
34) n-Decane	4.714	57	407295	50.570	ug/ml#	29
87) Atrazine	8.969	200	402341	53.238	ug/ml	92
101) n-Octadecane	9.168	57	664045	51.515	ug/ml#	1
102) Parathion	9.982	109	216694	49.751	ug/ml	98
103) 3,3'-Dimethylbenzidine	11.275	212	1781903	49.657	ug/ml	97

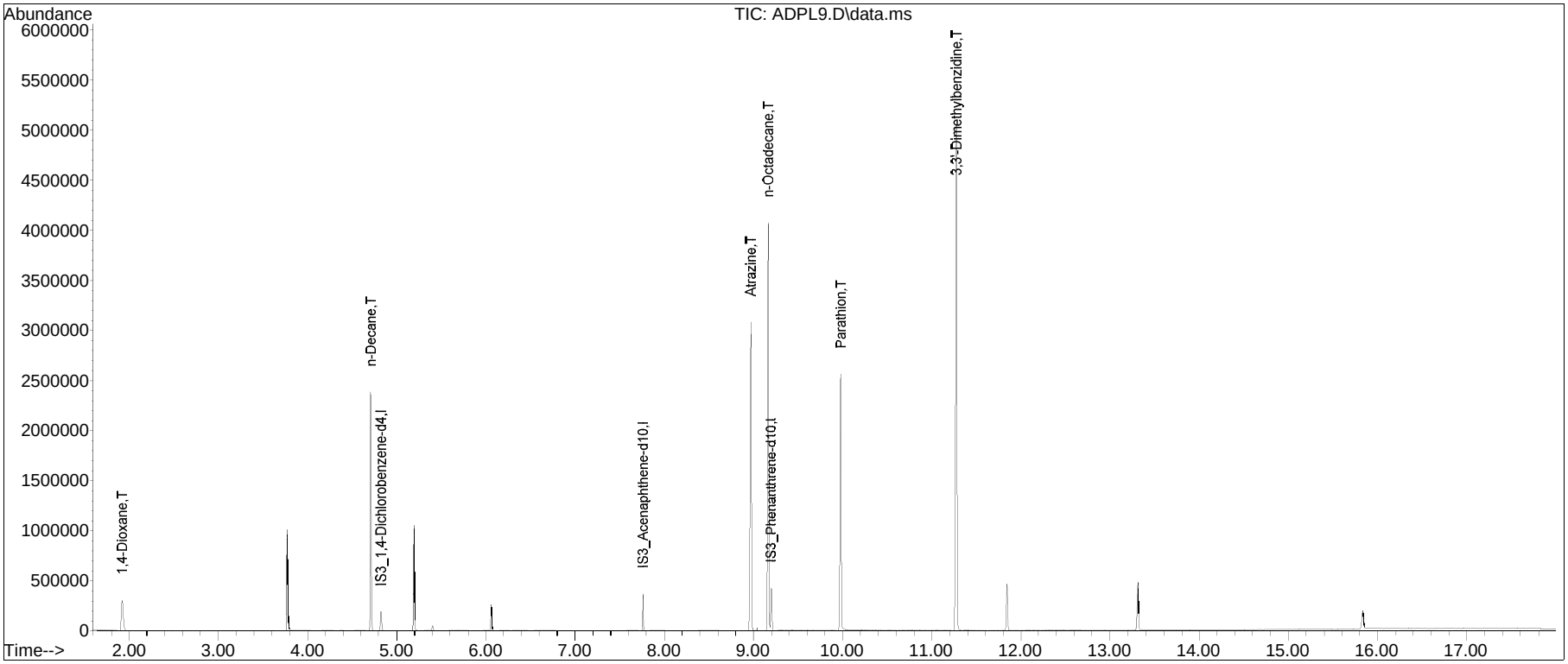
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ADPL9.D
Acq On : 1 Jun 2024 2:07 am
Operator : Dakota:mrg
Sample : IL2,32,,ADPL50 Lot# 10709
Misc : WG1930266
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 05 18:12:57 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:13:29 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistcal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240531ical\	QMethod	: FS240531_14D_Dakota.m
Data File	: ADPL9.D	Operator	: Dakota:mrg
Date Inj'd	: 6/1/2024 2:07 am	Instrument	: Dakota
Sample	: IL2,32,,ADPL50 Lot# 10709	Quant Date	: 6/5/2024 6:13 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ADPL8.D
Acq On : 1 Jun 2024 2:37 am
Operator : Dakota:mrg
Sample : IL3,32,,ADPL25 Lot# 10710
Misc : WG1930266
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 05 18:12:47 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:13:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.825	152	29429	4.000	ug/ml	0.00
Standard Area 2 = 31871			Recovery = 92.34%			
86) IS3_Acenaphthene-d10	7.766	164	71225	4.000	ug/ml	0.00
Standard Area 2 = 75943			Recovery = 93.79%			
100) IS3_Phenanthrene-d10	9.199	188	157460	4.000	ug/ml	0.00
Standard Area 2 = 177659			Recovery = 88.63%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.919	88	76888	23.761	ug/ml#	30
34) n-Decane	4.714	57	206709	24.140	ug/ml#	29
87) Atrazine	8.965	200	188903	25.059	ug/ml	92
101) n-Octadecane	9.164	57	324459	25.347	ug/ml#	1
102) Parathion	9.979	109	93722	25.775	ug/ml	97
103) 3,3'-Dimethylbenzidine	11.269	212	871654	25.879	ug/ml	98

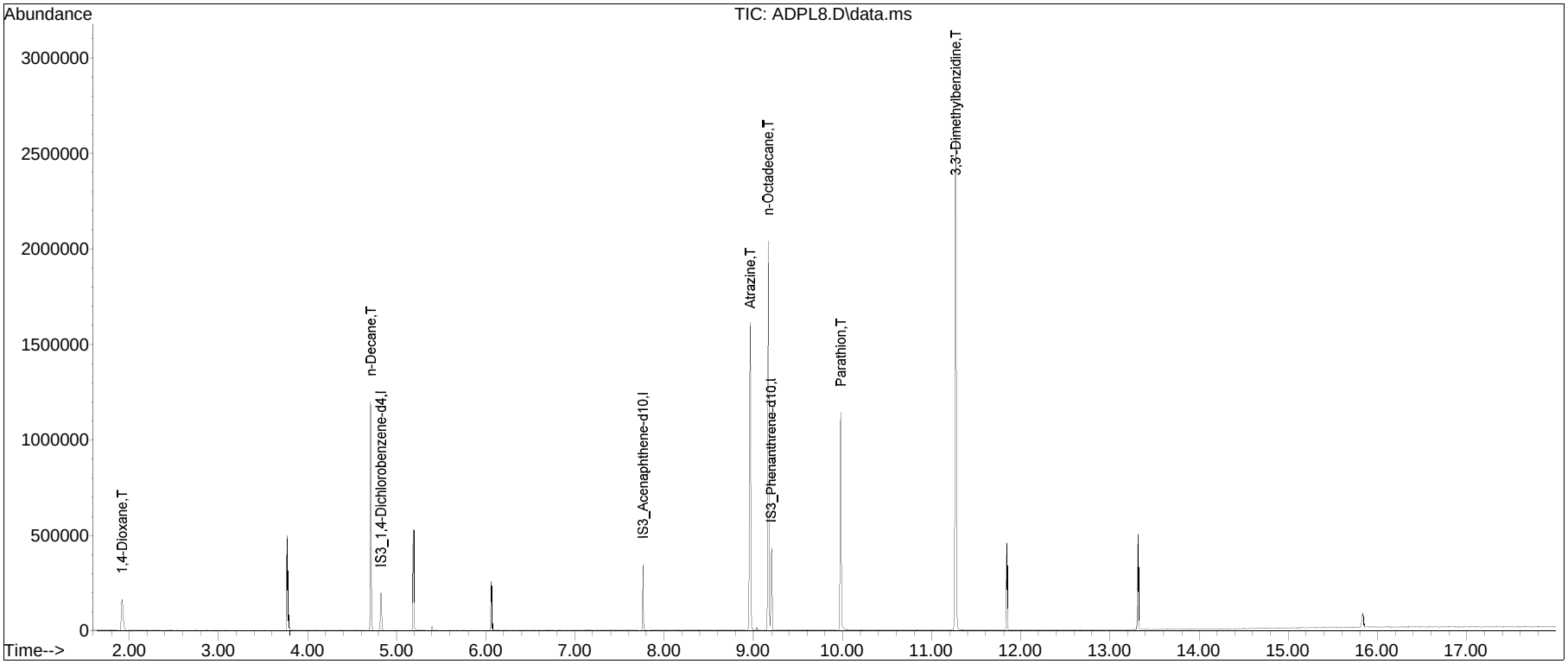
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ADPL8.D
Acq On : 1 Jun 2024 2:37 am
Operator : Dakota:mrg
Sample : IL3,32,,ADPL25 Lot# 10710
Misc : WG1930266
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 05 18:12:47 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:13:19 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistcal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240531ical\	QMethod	: FS240531_14D_Dakota.m
Data File	: ADPL8.D	Operator	: Dakota:mrg
Date Inj'd	: 6/1/2024 2:37 am	Instrument	: Dakota
Sample	: IL3,32,,ADPL25 Lot# 10710	Quant Date	: 6/5/2024 6:13 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ADPL7.D
Acq On : 1 Jun 2024 2:51 am
Operator : Dakota:mrg
Sample : IL4,32,,ADPL10 Lot# 10711
Misc : WG1930266
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 05 18:12:36 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:13:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.825	152	29786	4.000	ug/ml	0.00
Standard Area 2 = 31871			Recovery = 93.46%			
86) IS3_Acenaphthene-d10	7.766	164	68609	4.000	ug/ml	0.00
Standard Area 2 = 75943			Recovery = 90.34%			
100) IS3_Phenanthrene-d10	9.199	188	164655	4.000	ug/ml	0.00
Standard Area 2 = 177659			Recovery = 92.68%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.923	88	30678	9.367	ug/ml#	27
34) n-Decane	4.714	57	84202	9.715	ug/ml#	29
87) Atrazine	8.962	200	73533	10.127	ug/ml	93
101) n-Octadecane	9.164	57	133082	9.942	ug/ml#	1
102) Parathion	9.976	109	32519	9.788	ug/ml	95
103) 3,3'-Dimethylbenzidine	11.265	212	331919	9.889	ug/ml	98

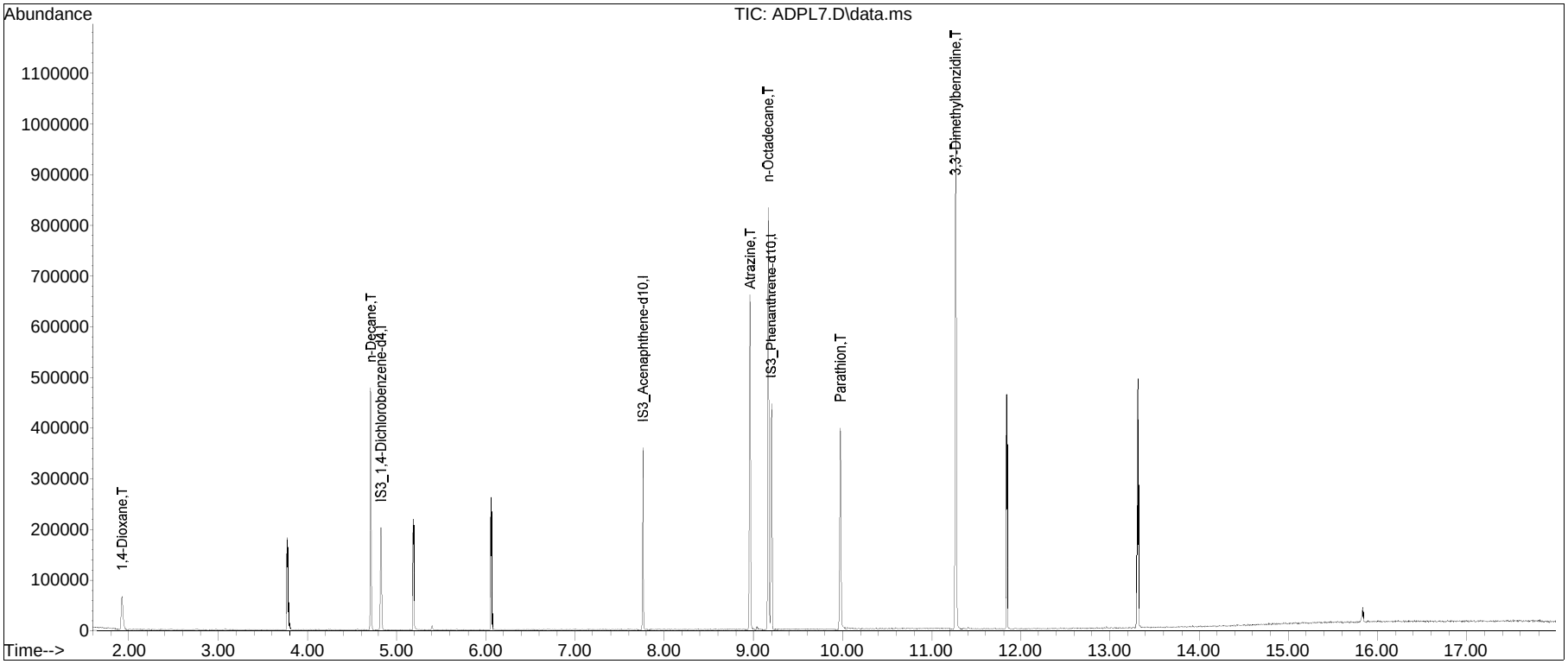
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ADPL7.D
Acq On : 1 Jun 2024 2:51 am
Operator : Dakota:mrg
Sample : IL4,32,,ADPL10 Lot# 10711
Misc : WG1930266
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 05 18:12:36 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:13:08 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistcal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240531ical\	QMethod	: FS240531_14D_Dakota.m
Data File	: ADPL7.D	Operator	: Dakota:mrg
Date Inj'd	: 6/1/2024 2:51 am	Instrument	: Dakota
Sample	: IL4,32,,ADPL10 Lot# 10711	Quant Date	: 6/5/2024 6:13 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ADPL6.D
Acq On : 1 Jun 2024 3:13 am
Operator : Dakota:mrg
Sample : IL5,32,,ADPL5 Lot# 10712
Misc : WG1930266
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 05 18:12:26 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:12:57 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.826	152	31871	4.000	ug/ml	0.00
Standard Area 2 = 31871			Recovery =	100.00%		
86) IS3_Acenaphthene-d10	7.766	164	75943	4.000	ug/ml	0.00
Standard Area 2 = 75943			Recovery =	100.00%		
100) IS3_Phenanthrene-d10	9.199	188	177659	4.000	ug/ml	0.00
Standard Area 2 = 177659			Recovery =	100.00%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.932	88	16460	4.697	ug/ml#	27
34) n-Decane	4.711	57	43271	4.666	ug/ml#	27
87) Atrazine	8.959	200	37117	4.618	ug/ml	92
101) n-Octadecane	9.165	57	68302	4.729	ug/ml#	1
102) Parathion	9.976	109	16416	4.795	ug/ml	96
103) 3,3'-Dimethylbenzidine	11.266	212	162836	4.645	ug/ml	99

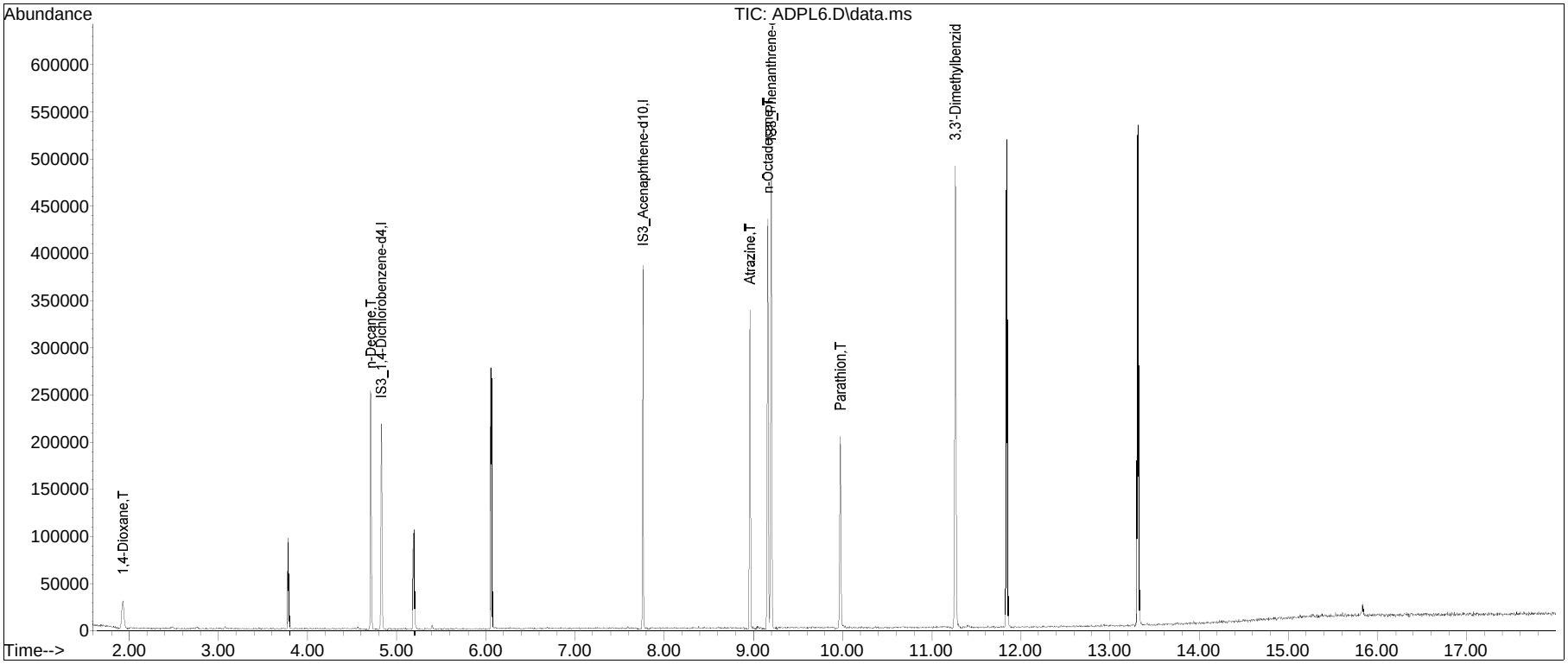
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ADPL6.D
Acq On : 1 Jun 2024 3:13 am
Operator : Dakota:mrg
Sample : IL5,32,,ADPL5 Lot# 10712
Misc : WG1930266
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 05 18:12:26 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:12:57 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistcal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240531ical\	QMethod	: FS240531_14D_Dakota.m
Data File	: ADPL6.D	Operator	: Dakota:mrg
Date Inj'd	: 6/1/2024 3:13 am	Instrument	: Dakota
Sample	: IL5,32,,ADPL5 Lot# 10712	Quant Date	: 6/5/2024 6:12 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ADPL5.D
Acq On : 1 Jun 2024 3:36 am
Operator : Dakota:mrg
Sample : IL6,32,,ADPL2.5 Lot# 10713
Misc : WG1930266
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 05 18:12:15 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:12:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.826	152	28176	4.000	ug/ml	0.00
Standard Area 2 = 31871			Recovery = 88.41%			
86) IS3_Acenaphthene-d10	7.766	164	67987	4.000	ug/ml	0.00
Standard Area 2 = 75943			Recovery = 89.52%			
100) IS3_Phenanthrene-d10	9.199	188	159781	4.000	ug/ml	0.00
Standard Area 2 = 177659			Recovery = 89.94%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.919	88	7464	2.409	ug/ml#	30
34) n-Decane	4.714	57	18782	2.291	ug/ml#	27
87) Atrazine	8.959	200	16552	2.300	ug/ml	92
101) n-Octadecane	9.164	57	29870	2.300	ug/ml#	1
102) Parathion	9.976	109	6422	2.137	ug/ml	91
103) 3,3'-Dimethylbenzidine	11.266	212	69295	2.300	ug/ml	99

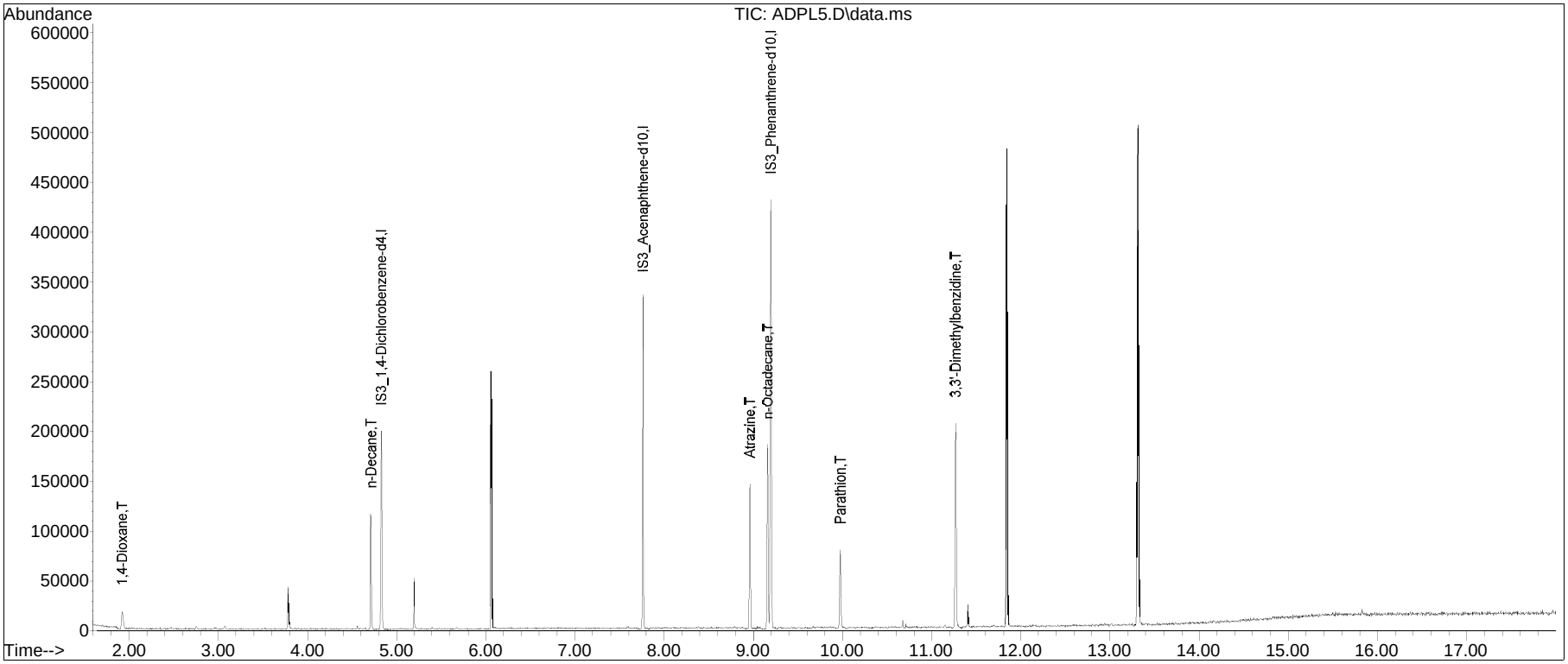
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ADPL5.D
Acq On : 1 Jun 2024 3:36 am
Operator : Dakota:mrg
Sample : IL6,32,,ADPL2.5 Lot# 10713
Misc : WG1930266
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 05 18:12:15 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:12:47 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistcal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240531ical\	QMethod	: FS240531_14D_Dakota.m
Data File	: ADPL5.D	Operator	: Dakota:mrg
Date Inj'd	: 6/1/2024 3:36 am	Instrument	: Dakota
Sample	: IL6,32,,ADPL2.5 Lot# 10713	Quant Date	: 6/5/2024 6:12 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ADPL4.D
Acq On : 1 Jun 2024 3:58 am
Operator : Dakota:mrg
Sample : IL7,32,,ADPL1 Lot# 10714
Misc : WG1930266,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 05 18:12:05 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:12:37 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.825	152	30180	4.000	ug/ml	0.00
Standard Area 2 = 31871			Recovery = 94.69%			
86) IS3_Acenaphthene-d10	7.766	164	68718	4.000	ug/ml	0.00
Standard Area 2 = 75943			Recovery = 90.49%			
100) IS3_Phenanthrene-d10	9.199	188	163030	4.000	ug/ml	0.00
Standard Area 2 = 177659			Recovery = 91.77%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.932	88	3248	0.979	ug/ml#	42
34) n-Decane	4.710	57	9138	1.041	ug/ml#	29
87) Atrazine	8.959	200	7974	1.096	ug/ml	94
101) n-Octadecane	9.164	57	14870	1.122	ug/ml#	1
102) Parathion	9.976	109	3599	1.183	ug/ml	95
103) 3,3'-Dimethylbenzidine	11.265	212	30973	1.106	ug/ml	98

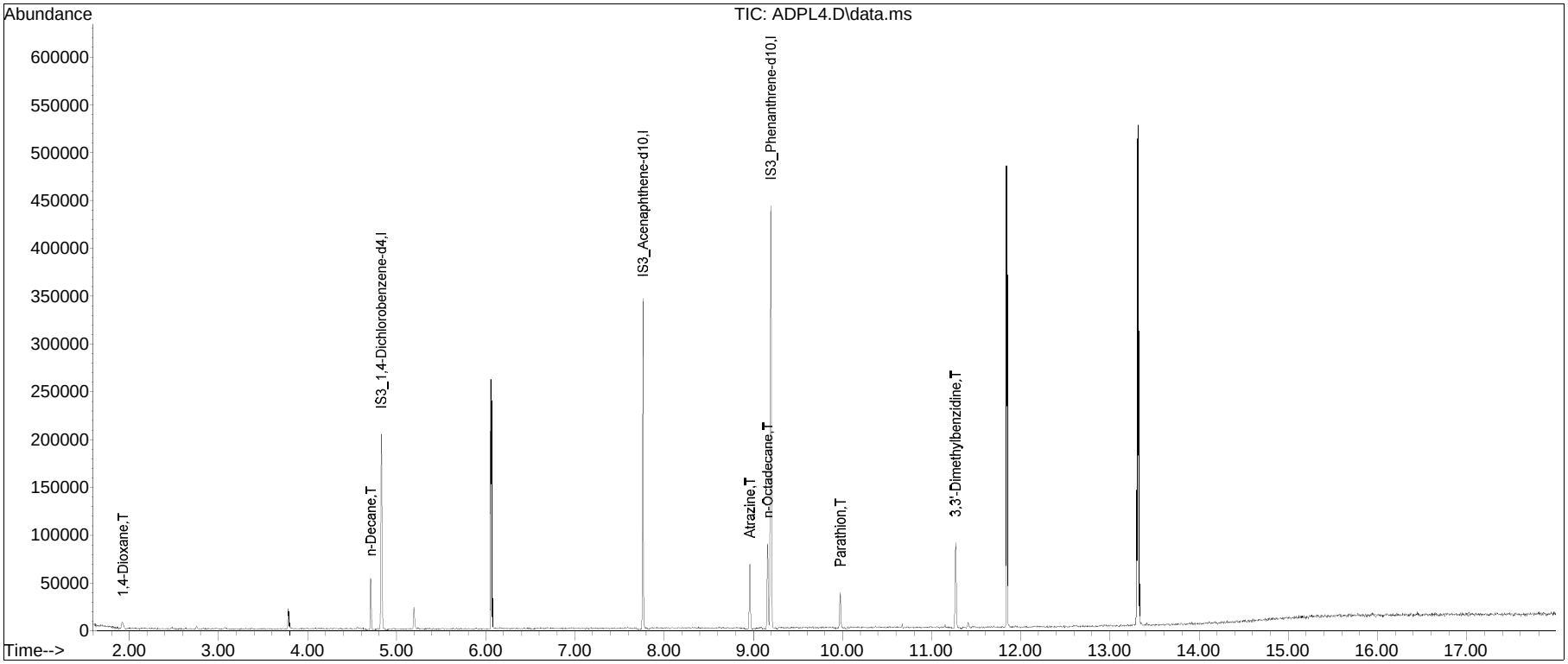
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ADPL4.D
Acq On : 1 Jun 2024 3:58 am
Operator : Dakota:mrg
Sample : IL7,32,,ADPL1 Lot# 10714
Misc : WG1930266,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 05 18:12:05 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:12:37 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistcal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240531ical\	QMethod	: FS240531_14D_Dakota.m
Data File	: ADPL4.D	Operator	: Dakota:mrg
Date Inj'd	: 6/1/2024 3:58 am	Instrument	: Dakota
Sample	: IL7,32,,ADPL1 Lot# 10714	Quant Date	: 6/5/2024 6:12 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ADPL3.D
Acq On : 1 Jun 2024 4:20 am
Operator : Dakota:mrg
Sample : IL8,32,,ADPL0.5 Lot# 10715
Misc : WG1930266
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 05 18:11:55 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:12:27 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.826	152	28435	4.000	ug/ml	0.00
Standard Area 2 = 31871			Recovery = 89.22%			
86) IS3_Acenaphthene-d10	7.763	164	67458	4.000	ug/ml	0.00
Standard Area 2 = 75943			Recovery = 88.83%			
100) IS3_Phenanthrene-d10	9.195	188	164499	4.000	ug/ml	0.00
Standard Area 2 = 177659			Recovery = 92.59%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.926	88	1719	0.550	ug/ml#	25
34) n-Decane	4.714	57	4365	0.528	ug/ml#	27
87) Atrazine	8.959	200	3444	0.482	ug/ml	91
101) n-Octadecane	9.161	57	6329	0.473	ug/ml#	1
102) Parathion	9.976	109	1527	0.499	ug/ml	92
103) 3,3'-Dimethylbenzidine	11.265	212	11463	0.514	ug/ml	99

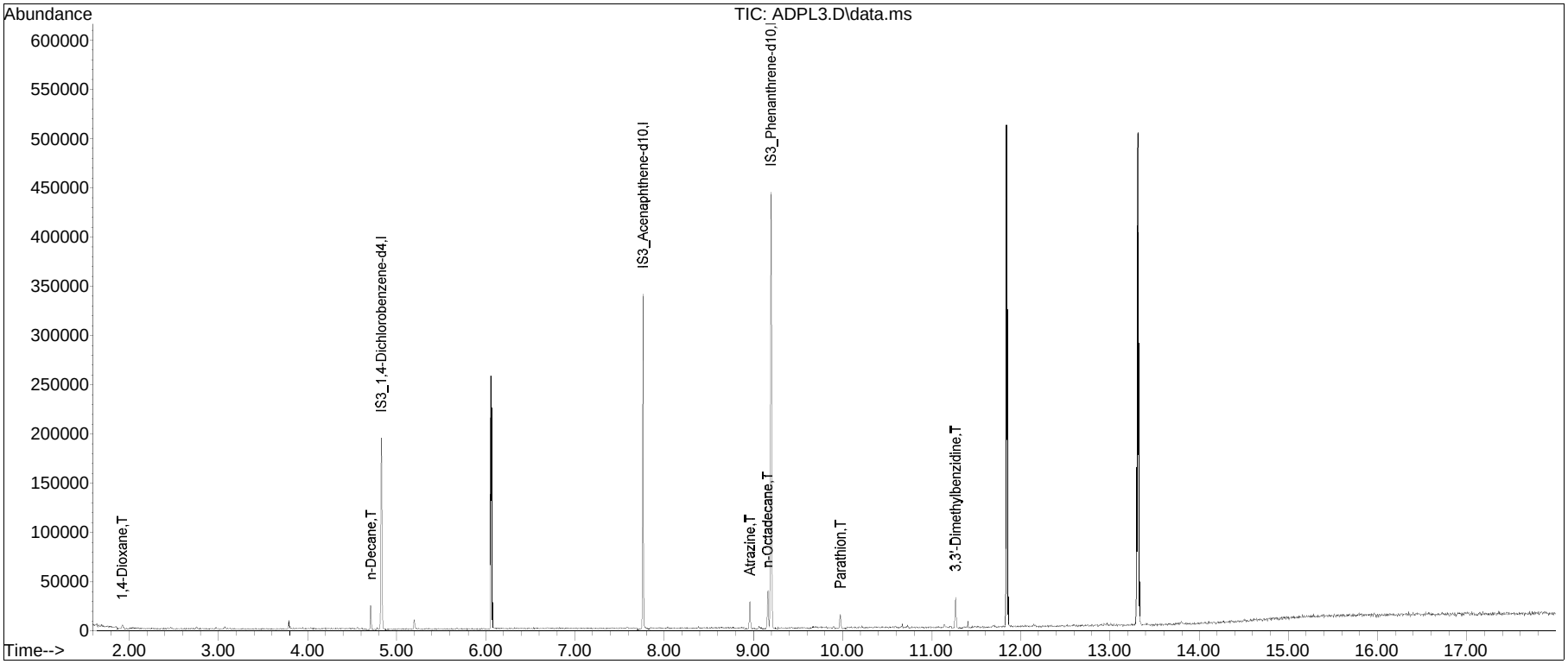
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ADPL3.D
Acq On : 1 Jun 2024 4:20 am
Operator : Dakota:mrg
Sample : IL8,32,,ADPL0.5 Lot# 10715
Misc : WG1930266
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 05 18:11:55 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:12:27 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistcal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240531ical\	QMethod	: FS240531_14D_Dakota.m
Data File	: ADPL3.D	Operator	: Dakota:mrg
Date Inj'd	: 6/1/2024 4:20 am	Instrument	: Dakota
Sample	: IL8,32,,ADPL0.5 Lot# 10715	Quant Date	: 6/5/2024 6:12 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ADPL2.D
Acq On : 1 Jun 2024 4:43 am
Operator : Dakota:mrg
Sample : IL9,32,,ADPL0.2 Lot# 10716
Misc : WG1930266
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 05 18:11:45 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.826	152	31817	4.000	ug/ml	0.00
Standard Area 2 = 31871			Recovery = 99.83%			
86) IS3_Acenaphthene-d10	7.763	164	70595	4.000	ug/ml	0.00
Standard Area 2 = 75943			Recovery = 92.96%			
100) IS3_Phenanthrene-d10	9.196	188	169437	4.000	ug/ml	0.00
Standard Area 2 = 177659			Recovery = 95.37%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.935	88	644	0.184	ug/ml#	56
34) n-Decane	4.714	57	2168	0.234	ug/ml#	33
87) Atrazine	8.956	200	1578	0.211	ug/ml#	69
101) n-Octadecane	9.161	57	2823	0.205	ug/ml#	1
102) Parathion	9.973	109	656	0.207	ug/ml#	73
103) 3,3'-Dimethylbenzidine	11.262	212	3974	0.286	ug/ml#	78

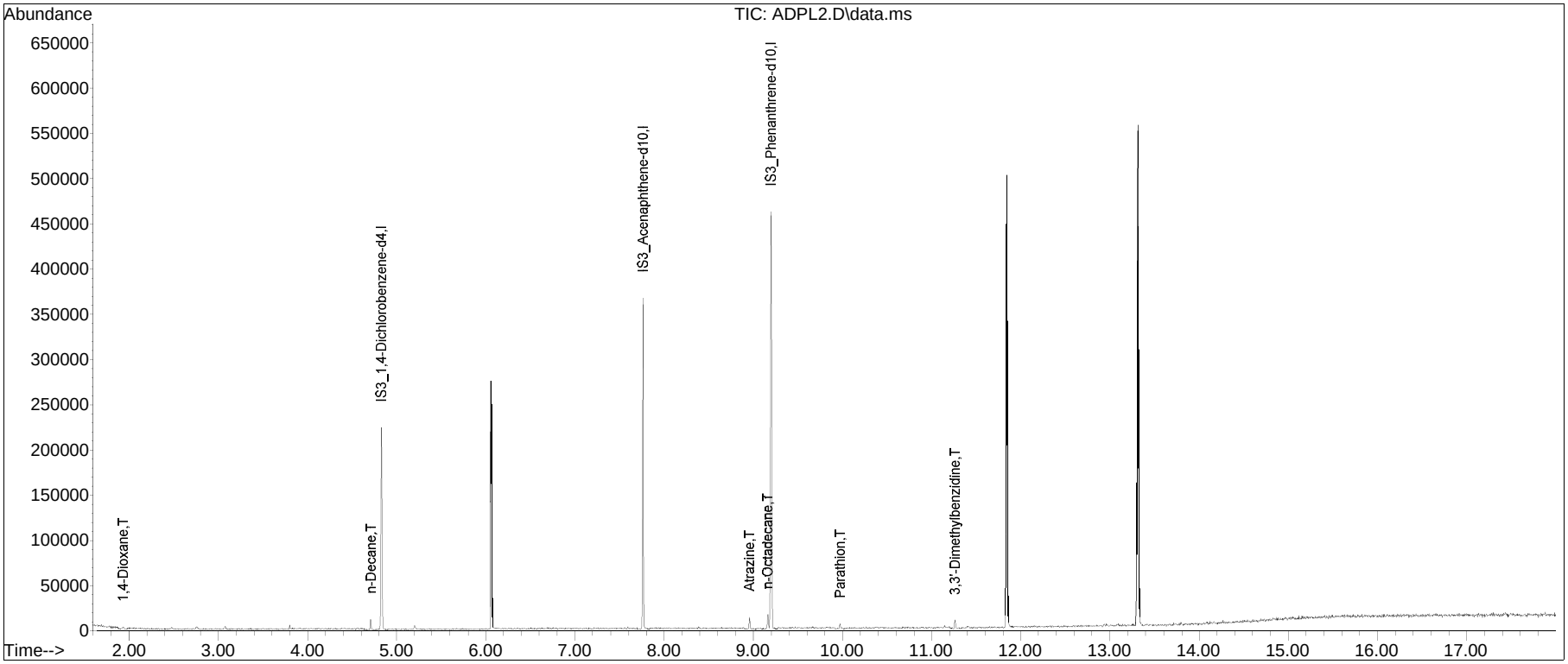
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ADPL2.D
Acq On : 1 Jun 2024 4:43 am
Operator : Dakota:mrg
Sample : IL9,32,,ADPL0.2 Lot# 10716
Misc : WG1930266
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 05 18:11:45 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:12:17 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistcal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240531ical\	QMethod	: FS240531_14D_Dakota.m
Data File	: ADPL2.D	Operator	: Dakota:mrg
Date Inj'd	: 6/1/2024 4:43 am	Instrument	: Dakota
Sample	: IL9,32,,ADPL0.2 Lot# 10716	Quant Date	: 6/5/2024 6:12 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ADPL1.D
Acq On : 1 Jun 2024 5:05 am
Operator : Dakota:mrg
Sample : IL10,32,,ADPL0.1 Lot# 10717
Misc : WG1930266
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 05 18:11:35 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:12:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.826	152	32630	4.000	ug/ml	0.00
Standard Area 2 = 31871			Recovery =	102.38%		
86) IS3_Acenaphthene-d10	7.766	164	73281	4.000	ug/ml	0.00
Standard Area 2 = 75943			Recovery =	96.49%		
100) IS3_Phenanthrene-d10	9.196	188	171765	4.000	ug/ml	0.00
Standard Area 2 = 177659			Recovery =	96.68%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	0.000		0	N.D.	d	
34) n-Decane	4.714	57	888	0.094	ug/ml	# 7
87) Atrazine	8.956	200	744	0.096	ug/ml	# 33
101) n-Octadecane	9.164	57	1400	0.100	ug/ml	# 1
102) Parathion	0.000		0	N.D.		
103) 3,3'-Dimethylbenzidine	11.266	212	1475	0.213	ug/ml	# 62

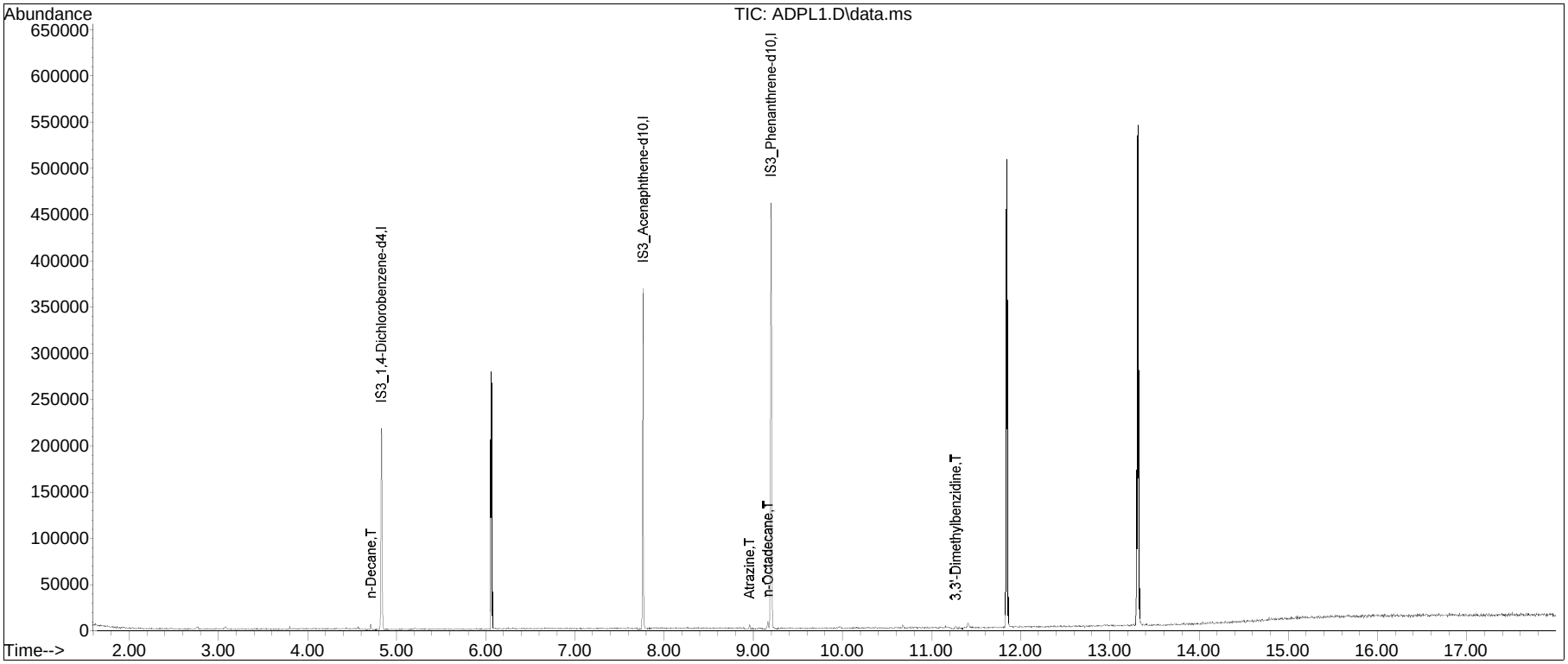
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ADPL1.D
Acq On : 1 Jun 2024 5:05 am
Operator : Dakota:mrg
Sample : IL10,32,,ADPL0.1 Lot# 10717
Misc : WG1930266
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 05 18:11:35 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 18:12:07 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistcal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240531ical\	QMethod	: FS240531_14D_Dakota.m
Data File	: ADPL1.D	Operator	: Dakota:mrg
Date Inj'd	: 6/1/2024 5:05 am	Instrument	: Dakota
Sample	: IL10,32,,ADPL0.1 Lot# 1071	Quant Date	: 6/5/2024 6:12 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240531ical\
Data File : ADPICV.D
Acq On : 1 Jun 2024 5:27 am
Operator : Dakota:mrg
Sample : CQICV3,32,,ADPICV Lot# 10690
Misc : WG1930266
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 03 12:04:44 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 12:04:53 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	94	0.00
33	T	1,4-Dioxane		0.440	0.407	7.5	92	0.00
34	T	n-Decane		1.164	1.072	7.9	92	0.00
86	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	95	0.00
87	T	Atrazine		0.423	0.370	12.5	90	0.00
100	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	96	0.00
101	T	n-Octadecane		0.325	0.307	5.5	95	0.00
102	T	Parathion	*	5.000	4.352	13.0	86	0.00
103	T	3,3'-Dimethylbenzidine	*	5.000	4.381	12.4	90	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240531ical\
Data File : ADPICV.D
Acq On : 1 Jun 2024 5:27 am
Operator : Dakota:mrg
Sample : CQICV3,32,,ADPICV Lot# 10690
Misc : WG1930266
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 03 12:04:44 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 12:04:53 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240531ical\ABNL6.D
: 2 - I:\8270\Dakota\240531ical\ADPL6.D
: 3 - I:\8270\Dakota\240531ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.825	152	29809	4.000	ug/ml	0.00
Standard Area 2 = 31871			Recovery = 93.53%			
86) IS3_Acenaphthene-d10	7.763	164	71963	4.000	ug/ml	0.00
Standard Area 2 = 75943			Recovery = 94.76%			
100) IS3_Phenanthrene-d10	9.195	188	169885	4.000	ug/ml	0.00
Standard Area 2 = 177659			Recovery = 95.62%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.929	88	15180	4.631	ug/ml#	25
34) n-Decane	4.714	57	39935	4.604	ug/ml#	27
87) Atrazine	8.959	200	33279	4.369	ug/ml	93
101) n-Octadecane	9.164	57	65101	4.714	ug/ml#	1
102) Parathion	9.976	109	14189	4.352	ug/ml	96
103) 3,3'-Dimethylbenzidine	11.265	212	146418	4.381	ug/ml	98

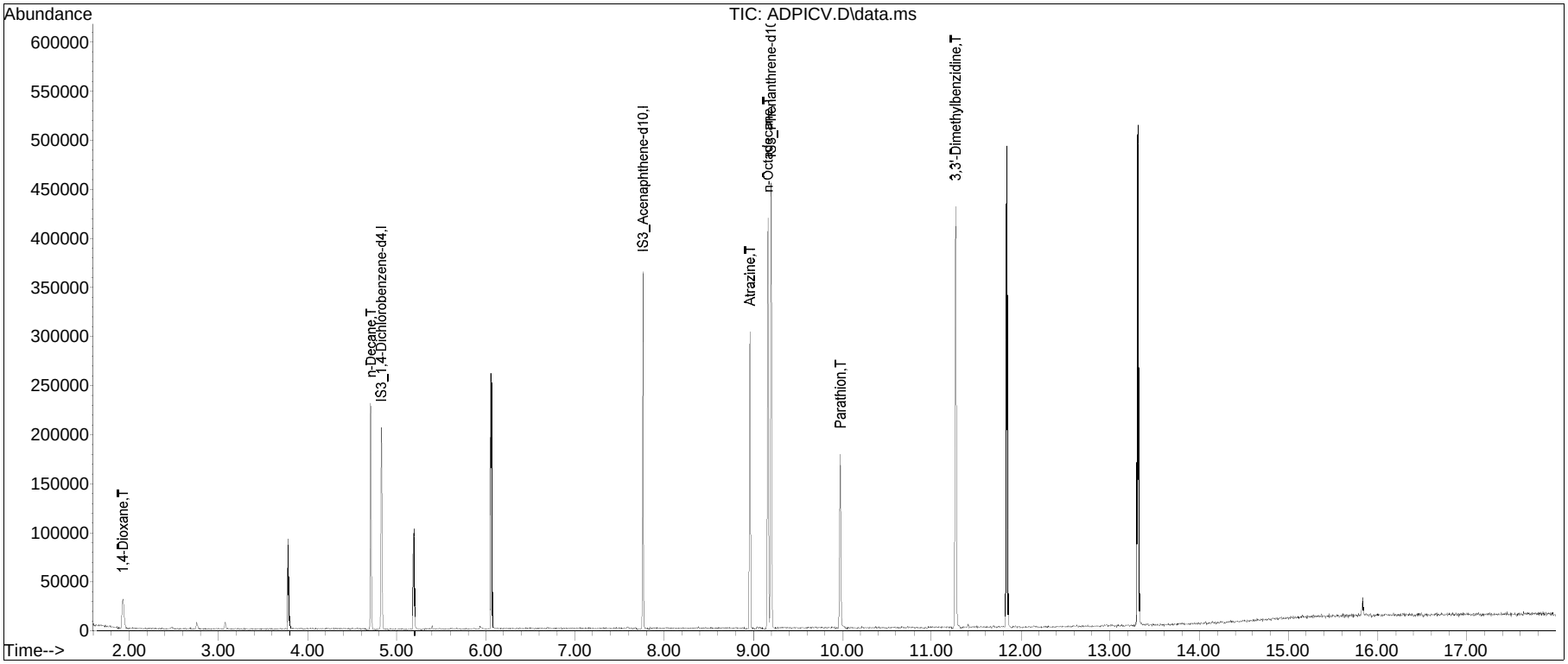
(#) = qualifier out of range (m) = manual integration (+) = signals summed

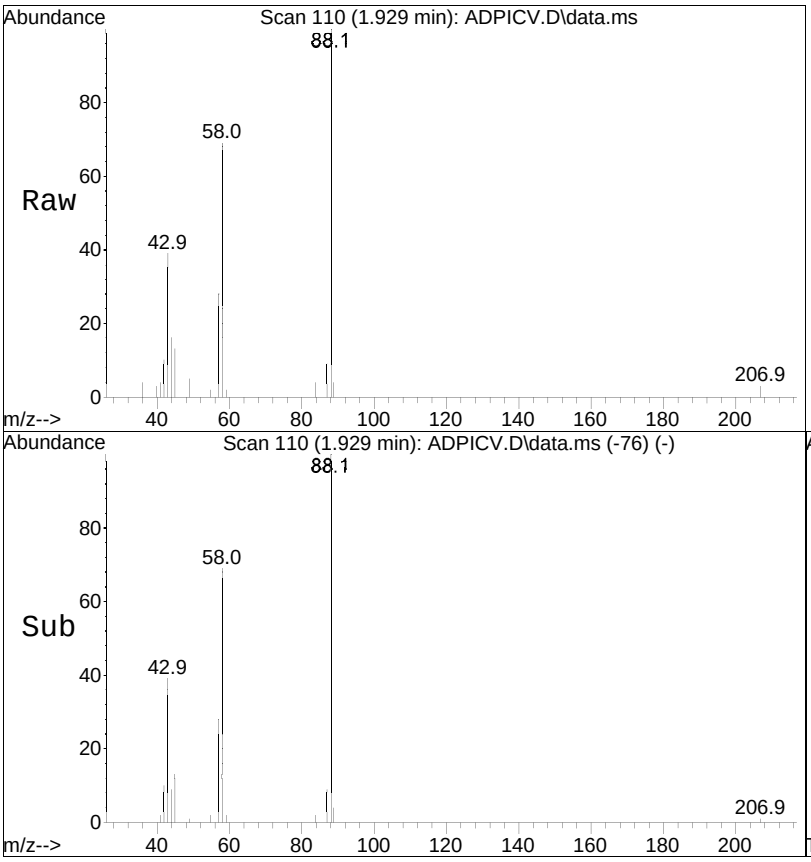
Quantitation Report (QT Reviewed)

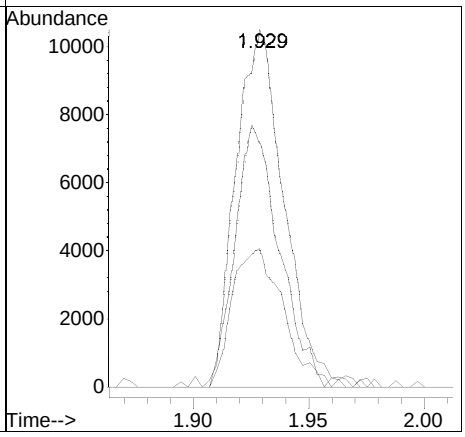
Data Path : I:\8270\Dakota\240531ical\
Data File : ADPICV.D
Acq On : 1 Jun 2024 5:27 am
Operator : Dakota:mrg
Sample : CQICV3,32,,ADPICV Lot# 10690
Misc : WG1930266
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 03 12:04:44 2024
Quant Method : I:\8270\Dakota\240531ical\FS240531_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 12:04:53 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistcal\AP9L6.D•



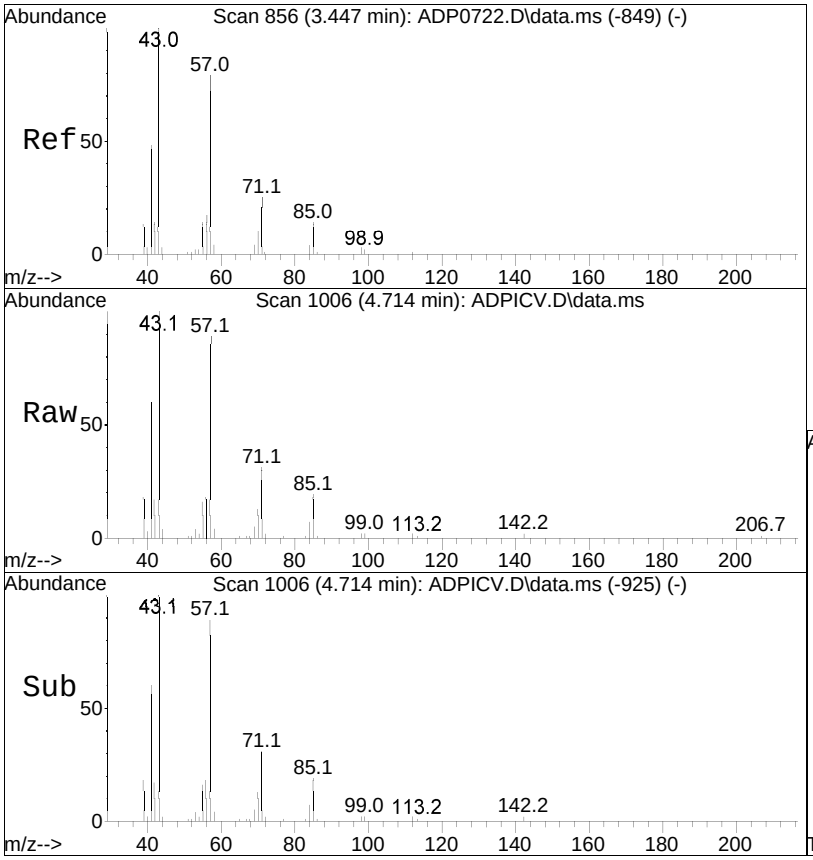




#33
1,4-Dioxane
Concen: 4.63 ug/ml
RT: 1.929 min Scan# 110
Delta R.T. 0.006 min
Lab File: ADPICV.D
Acq: 1 Jun 2024 5:27 am

Tgt Ion: 88 Resp: 15180

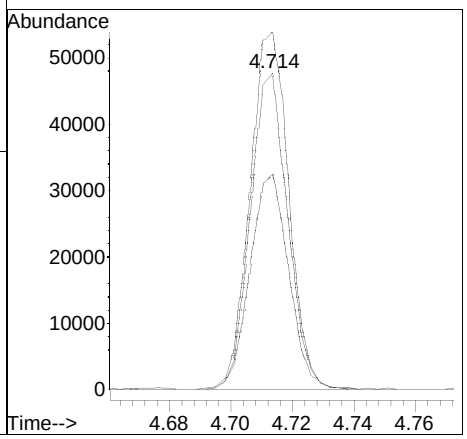
Ion	Ratio	Lower	Upper
88	100		
58	68.2	16.0	24.0#
43	40.5	16.0	24.0#

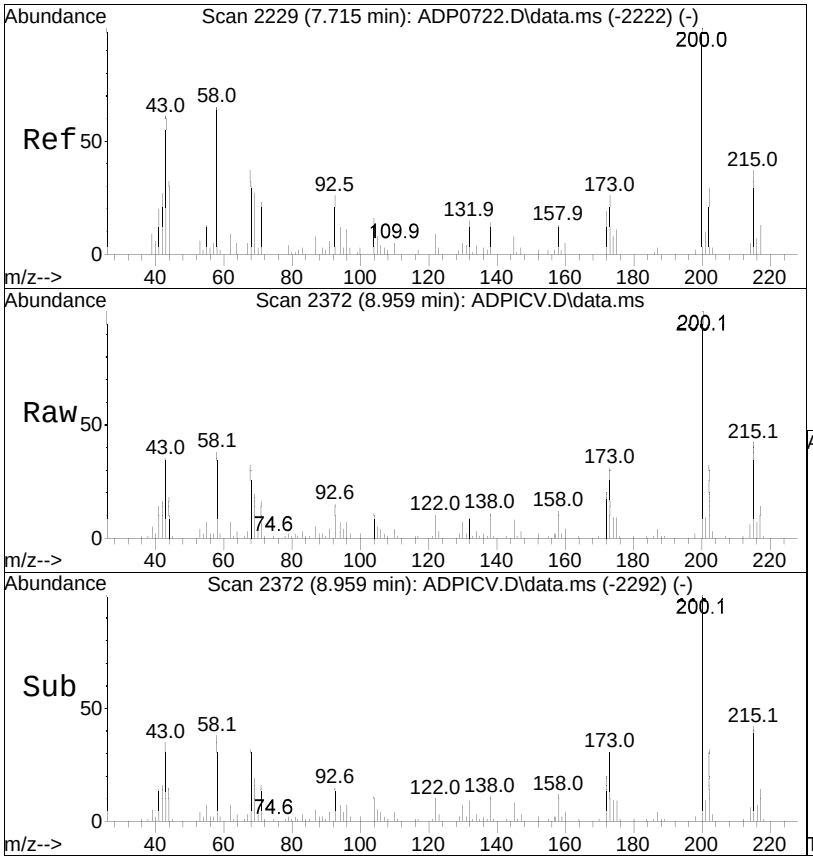


#34
n-Decane
Concen: 4.60 ug/ml
RT: 4.714 min Scan# 1006
Delta R.T. 0.003 min
Lab File: ADPICV.D
Acq: 1 Jun 2024 5:27 am

Tgt Ion: 57 Resp: 39935

Ion	Ratio	Lower	Upper
57	100		
43	117.4	0.2	0.2#
41	70.5	0.2	0.2#

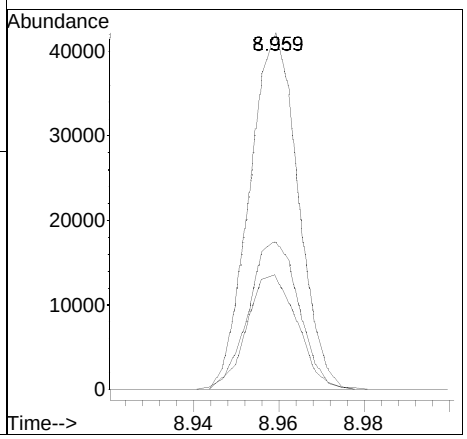


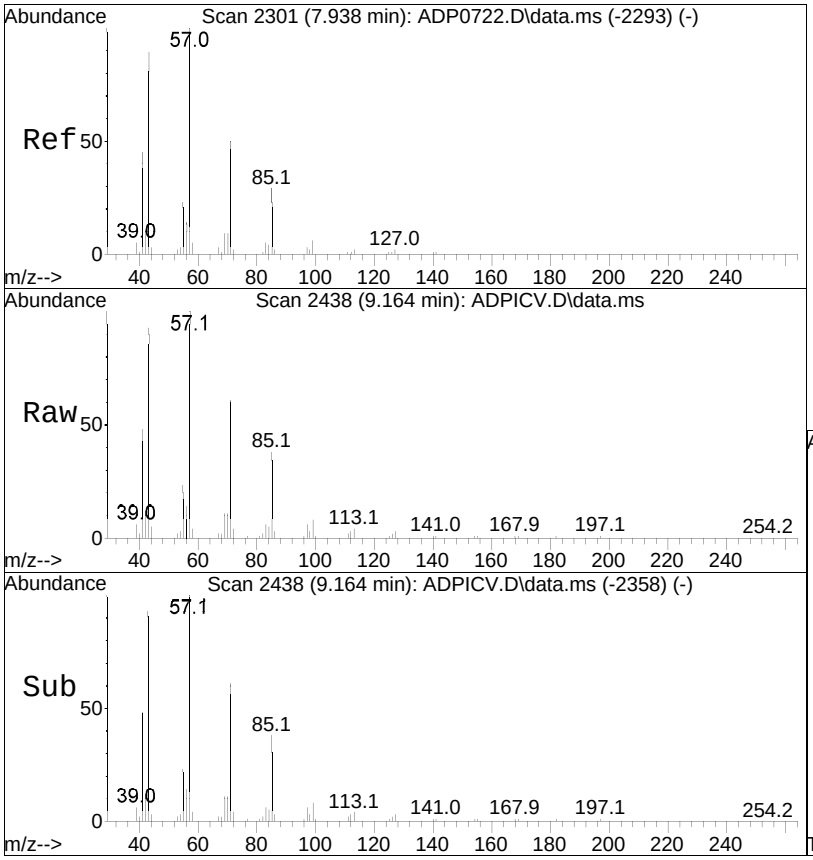


#87
Atrazine
Concen: 4.37 ug/ml
RT: 8.959 min Scan# 2372
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 1 Jun 2024 5:27 am

Tgt Ion:200 Resp: 33279

Ion	Ratio	Lower	Upper
200	100		
202	33.5	25.8	38.6
215	43.1	40.2	60.4

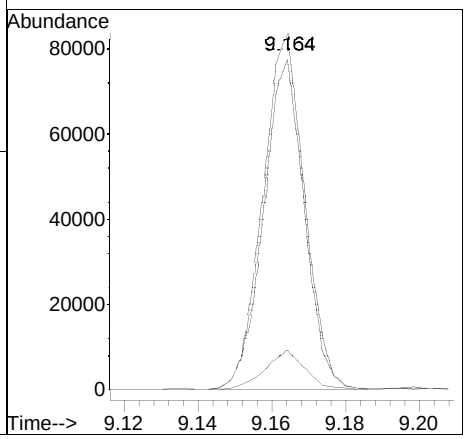


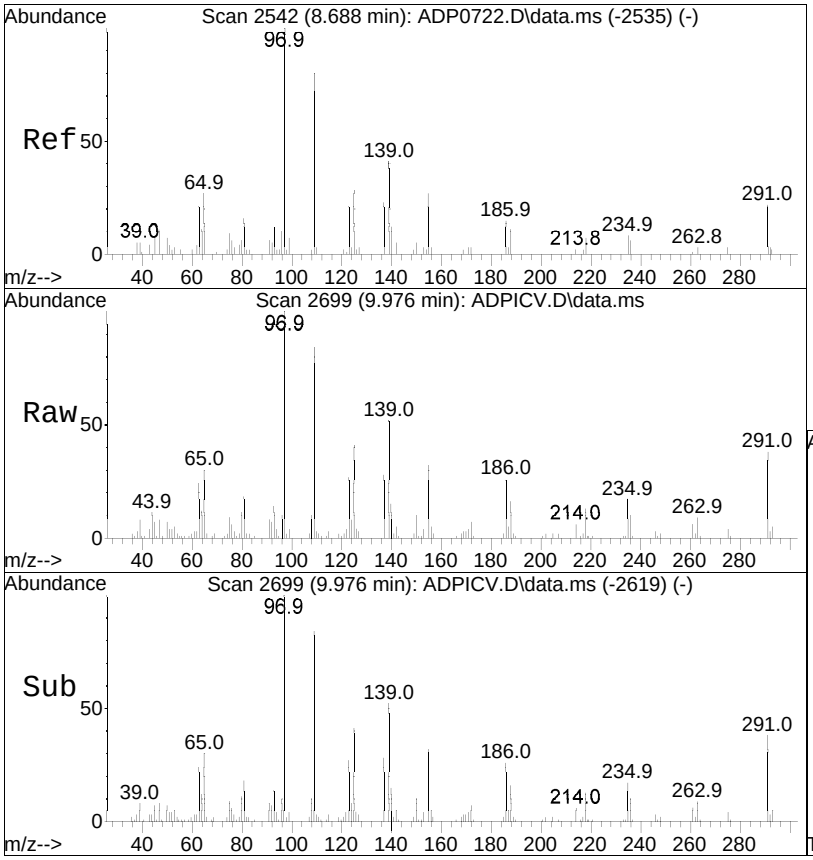


#101
n-Octadecane
Concen: 4.71 ug/ml
RT: 9.164 min Scan# 2438
Delta R.T. -0.001 min
Lab File: ADPICV.D
Acq: 1 Jun 2024 5:27 am

Tgt Ion: 57 Resp: 65101

Ion	Ratio	Lower	Upper
57	100		
43	90.6	9.0	13.6#
70	10.5	0.2	0.2#

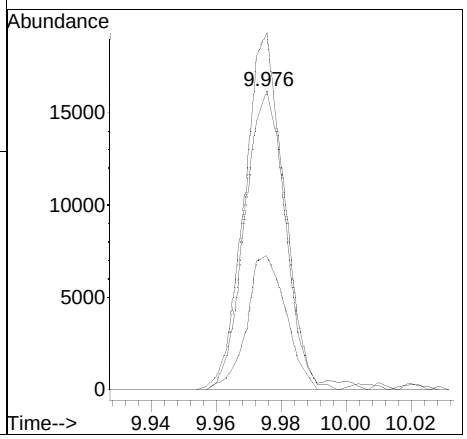


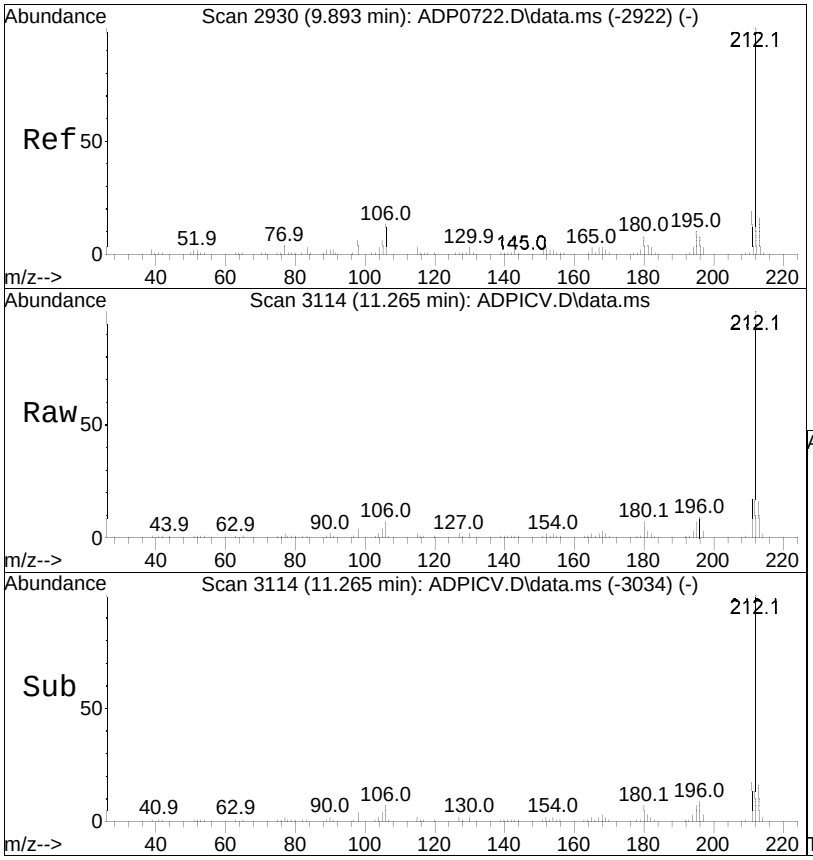


#102
Parathion
Concen: 4.35 ug/ml
RT: 9.976 min Scan# 2699
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 1 Jun 2024 5:27 am

Tgt Ion:109 Resp: 14189

Ion	Ratio	Lower	Upper
109	100		
97	114.5	87.4	131.2
291	42.8	34.2	51.2

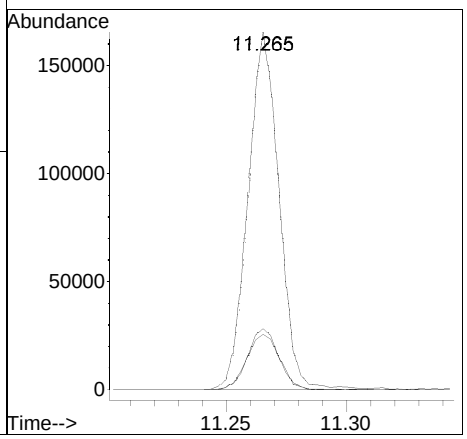




#103
3,3'-Dimethylbenzidine
Concen: 4.38 ug/ml
RT: 11.265 min Scan# 3114
Delta R.T. -0.001 min
Lab File: ADPICV.D
Acq: 1 Jun 2024 5:27 am

Tgt Ion:212 Resp: 146418

Ion	Ratio	Lower	Upper
212	100		
211	17.4	12.9	19.3
213	16.7	13.2	19.8



Manual Integration Report

Data Path	: I:\8270\Dakota\240531ical\	QMethod	: FS240531_14D_Dakota.m
Data File	: ADPICV.D	Operator	: Dakota:mrg
Date Inj'd	: 6/1/2024 5:27 am	Instrument	: Dakota
Sample	: CQICV3,32,,ADPICV Lot# 106	Quant Date	: 6/3/2024 12:05 pm

There are no manual integrations or false positives in this file.

Evaluate Relative Error Report Dakota

Method Path : I:\8270\Dakota\240531ical\
Method File : FS240531_14D_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Jun 05 17:45:08 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
37	T Benzoic Acid	L	ug/ml	5.0	4.263	-14.7	1.00	1.270	27.0
66	T 2,4-Dinitrophenol	L	ug/ml	5.0	4.425	-11.5	1.00	1.173	17.3
76	T 4,6-Dinitro-o-cresol	L	ug/ml	5.0	4.496	-10.1	1.00	1.147	14.7
82	T Pentachlorophenol	L	ug/ml	5.0	4.603	-7.9	1.00	1.099	9.9
84	T Dichloran	L	ug/ml	5.0	4.117	-17.7	1.00	1.242	24.2
102	T Parathion	Q	ug/ml	5.0	4.795	-4.1	0.50	0.499	-0.2
103	T 3,3'-Dimethylbenzidine	Q	ug/ml	5.0	4.645	-7.1	0.50	0.514	2.8

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
37	T Benzoic Acid	Linear	0.995778	0.000000	0.233444	-0.0617711
66	T 2,4-Dinitrophenol	Linear	0.998185	0.000000	0.149987	-0.0229776
76	T 4,6-Dinitro-o-cresol	Linear	0.998599	0.000000	0.19773	-0.0241175
82	T Pentachlorophenol	Linear	0.999369	0.000000	0.340202	-0.0288854
84	T Dichloran	Linear	0.995149	0.000000	0.195878	-0.0280602
102	T Parathion	Quadratic	0.998920	0.002921	0.0735338	6.42804e-005
103	T 3,3'-Dimethylbenzidine	Quadratic	0.998984	0.007915	0.809751	-0.0344833

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: SV107	**Calibration Date**	: 06/04/24 22:02		
Lab File ID	: ABN0604	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1929711-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	101	0
n-Nitrosodimethylamine	0.704	0.725	-	-3	20	106	0
Pyridine	1.199	1.133	-	5.5	20	99	0
2-Fluorophenol	1.069	1.072	-	-0.3	20	105	0
Aniline	1.713	1.541	-	10	20	95	0
2-Chlorophenol	1.178	1.172	-	0.5	20	105	0
Phenol-d6	1.322	1.361	-	-3	20	109	0
Phenol	1.438	1.426	-	0.8	20	106	0
Bis(2-chloroethyl)ether	1.185	1.187	-	-0.2	20	110	0
1,3-Dichlorobenzene	1.452	1.43	-	1.5	20	106	0
1,4-Dichlorobenzene	1.478	1.468	-	0.7	20	107	0
1,2-Dichlorobenzene	1.426	1.403	-	1.6	20	106	0
Benzyl alcohol	1	0.953	-	4.7	20	102	0
Bis(2-chloroisopropyl)ethe	1.623	1.645	-	-1.4	20	111	0
2-Methylphenol	1.031	1.018	-	1.3	20	104	0
Hexachloroethane	0.545	0.548	-	-0.6	20	107	0
n-Nitrosodi-n-propylamine	0.879	0.855	-	2.7	20	104	0
3-Methylphenol/4-Methylphe	1.084	1.101	-	-1.6	20	103	0
Nitrobenzene-d5	1.165	1.203	-	-3.3	20	105	0
Nitrobenzene	1.197	1.227	-	-2.5	20	105	0
Isophorone	2.31	2.234	-	3.3	20	101	0
2-Nitrophenol	0.533	0.531	-	0.4	20	108	0
2,4-Dimethylphenol	1.088	0.911	-	16.3	20	87	0
Bis(2-chloroethoxy)methane	1.508	1.528	-	-1.3	20	110	0
2,4-Dichlorophenol	1.094	1.102	-	-0.7	20	102	0
1,2,4-Trichlorobenzene	1.318	1.33	-	-0.9	20	110	0
IS1_Naphthalene-d8	1	1	-	0	20	104	0
Naphthalene	0.996	0.967	-	2.9	20	109	0
Benzoic Acid	5	4.665	-	6.7	20	101	0
4-Chloroaniline	0.126	0.122	-	3.2	20	106	0
Hexachlorobutadiene	0.211	0.202	-	4.3	20	107	0
p-Chloro-m-cresol	0.272	0.27	-	0.7	20	102	0
2-Methylnaphthalene	0.688	0.663	-	3.6	20	105	0
1-Methylnaphthalene	0.235	0.228	-	3	20	108	0
Hexachlorocyclopentadiene	0.205	0.178	-	13.2	20	94	0
2,4,6-Trichlorophenol	0.237	0.233	-	1.7	20	100	0
2,4,5-Trichlorophenol	0.251	0.253	-	-0.8	20	103	0
2-Fluorobiphenyl	0.866	0.824	-	4.8	20	104	0
2-Chloronaphthalene	0.715	0.681	-	4.8	20	105	0
2-Nitroaniline	0.173	0.171	-	1.2	20	102	0
1,4-Dinitrobenzene	0.087	0.08	-	8	20	109	0
1,3-Dinitrobenzene	0.109	0.099	-	9.2	20	104	0
Dimethyl phthalate	0.839	0.804	-	4.2	20	103	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: SV107	**Calibration Date**	: 06/04/24 22:02		
Lab File ID	: ABN0604	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1929711-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.079	1.083	-	-0.4	20	107	0
2,6-Dinitrotoluene	0.153	0.159	-	-3.9	20	104	0
1,2-Dinitrobenzene	0.068	0.07	-	-2.9	20	104	0
IS1_Acenaphthene-d10	1	1	-	0	20	99	0
3-Nitroaniline	0.259	0.269	-	-3.9	20	104	0
Acenaphthene	1.081	1.002	-	7.3	20	102	0
2,4-Dinitrophenol	5	4.378	-	12.4	20	103	0
Dibenzofuran	1.757	1.673	-	4.8	20	103	0
2,4-Dinitrotoluene	5	4.494	-	10.1	20	105	0
4-Nitrophenol	0.221	0.214	-	3.2	20	102	0
2,3,5,6-Tetrachlorophenol	0.318	0.337	-	-6	20	104	0
2,3,4,6-Tetrachlorophenol	0.314	0.33	-	-5.1	20	102	0
Diethyl phthalate	1.301	1.247	-	4.2	20	103	0
Fluorene	1.328	1.276	-	3.9	20	103	0
4-Chlorophenyl phenyl ethe	0.672	0.652	-	3	20	105	0
4-Nitroaniline	0.262	0.266	-	-1.5	20	105	0
4,6-Dinitro-o-cresol	5	4.135	-	17.3	20	105	0
NDPA/DPA	1.131	1.09	-	3.6	20	102	0
Azobenzene	1.259	1.266	-	-0.6	20	105	0
2,4,6-Tribromophenol	0.171	0.174	-	-1.8	20	98	0
4-Bromophenyl phenyl ether	0.376	0.354	-	5.9	20	102	0
Hexachlorobenzene	0.431	0.389	-	9.7	20	99	0
Pentachlorophenol	0.252	0.232	-	7.9	20	97	0
IS1_Phenanthrene-d10	1	1	-	0	20	97	0
Phenanthrene	1.038	0.995	-	4.1	20	102	0
Anthracene	1.03	0.99	-	3.9	20	102	0
Carbazole	0.928	0.893	-	3.8	20	99	0
Di-n-butylphthalate	1.088	1.061	-	2.5	20	99	0
Fluoranthene	1.186	1.116	-	5.9	20	99	0
Benzidine	0.721	0.658	-	8.7	20	95	0
Pyrene	1.269	1.205	-	5	20	101	0
4-Terphenyl-d14	0.875	0.847	-	3.2	20	103	0
Butyl benzyl phthalate	5	4.109	-	17.8	20	96	0
IS1_Chrysene-d12	1	1	-	0	20	97	0
Benzo(a)anthracene	1.335	1.279	-	4.2	20	102	0
3,3'-Dichlorobenzidine	0.43	0.421	-	2.1	20	95	0
Chrysene	1.276	1.21	-	5.2	20	101	0
Bis(2-ethylhexyl)phthalate	5	4.313	-	13.7	20	97	0
Di-n-octylphthalate	5	4.155	-	16.9	20	97	0
Benzo(b)fluoranthene	1.178	1.104	-	6.3	20	97	0
Benzo(k)fluoranthene	1.154	1.184	-	-2.6	20	104	0
Benzo(a)pyrene	1.025	1.019	-	0.6	20	101	0
IS1_Perylene-d12	1	1	-	0	20	94	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: SV107	**Calibration Date**	: 06/04/24 22:02		
Lab File ID	: ABN0604	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1929711-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.952	0.993	-	-4.3	20	105	0
Dibenzo(a,h)anthracene	0.953	1.04	-	-9.1	20	102	0
Benzo(ghi)perylene	0.928	0.964	-	-3.9	20	103	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: SV107	**Calibration Date**	: 06/04/24 22:27		
Lab File ID	: AP90604	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1929711-4	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	113	0
Benzaldehyde	1.024	1.034	-	-1	20	122	0
Acetophenone	1.77	1.817	-	-2.7	20	121	0
m-Toluidine	1.599	1.808	-	-13.1	20	125	0
2-Chloroaniline	1.546	1.612	-	-4.3	20	121	0
IS2_Naphthalene-d8	1	1	-	0	20	114	0
a-Terpineol	0.276	0.285	-	-3.3	20	126	0
3-Chloroaniline	0.147	0.149	-	-1.4	20	122	0
2,6-Dichlorophenol	0.29	0.307	-	-5.9	20	125	0
1-chloro-2-nitrobenzene	0.121	0.135	-	-11.6	20	139	0
Caprolactam	0.149	0.15	-	-0.7	20	121	0
1,2,4,5-Tetrachlorobenzene	0.402	0.409	-	-1.7	20	127	0
Biphenyl	0.929	0.937	-	-0.9	20	125	0
IS2_Acenaphthene-d10	1	1	-	0	20	120	0
Dichloran	5	4.955	-	0.9	20	141	0
Pentachloronitrobenzene	5	5.149	-	-3	20	138	0
IS2_Phenanthrene-d10	1	1	-	0	20	118	0
Diphenamid	0.445	0.452	-	-1.6	20	124	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2430219	
Project Name	: HUNTINGTON READY MIXED		**Project Number**	: 20116	
Instrument ID	: SV107		**Calibration Date**	: 06/04/24 22:52	
Lab File ID	: ADP0604		**Init. Calib. Date(s)**	: 06/02/24	06/03/24
Sample No	: WG1929711-5		**Init. Calib. Times**	: 19:34	07:50
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	108	0
n-Decane	1.447	1.273	-	12	20	103	0
IS3_Acenaphthene-d10	1	1	-	0	20	110	0
Atrazine	0.347	0.33	-	4.9	20	102	0
IS3_Phenanthrene-d10	1	1	-	0	20	111	0
n-Octadecane	0.393	0.366	-	6.9	20	102	0
Parathion	5	4.065	-	18.7	20	98	0
3,3'-Dimethylbenzidine	0.696	0.563	-	19.1	20	93	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/05/24 08:58		
Lab File ID	: ABN0605	**Init. Calib. Date(s)**	: 05/31/24	06/01/24	
Sample No	: WG1929981-3	**Init. Calib. Times**	: 18:03	05:05	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	85	0
n-Nitrosodimethylamine	0.643	0.661	-	-2.8	20	90	0
Pyridine	1.051	1.024	-	2.6	20	83	0
2-Fluorophenol	1.003	0.977	-	2.6	20	87	0
Aniline	1.625	1.501	-	7.6	20	80	0
2-Chlorophenol	1.121	1.142	-	-1.9	20	85	0
Phenol-d6	1.244	1.271	-	-2.2	20	87	0
Phenol	1.393	1.426	-	-2.4	20	86	0
Bis(2-chloroethyl)ether	0.948	0.962	-	-1.5	20	85	0
1,3-Dichlorobenzene	1.422	1.453	-	-2.2	20	89	0
1,4-Dichlorobenzene	1.411	1.473	-	-4.4	20	91	0
1,2-Dichlorobenzene	1.364	1.399	-	-2.6	20	86	0
Benzyl alcohol	0.915	0.878	-	4	20	81	0
Bis(2-chloroisopropyl)ethe	1.578	1.615	-	-2.3	20	90	0
2-Methylphenol	0.937	0.954	-	-1.8	20	85	0
Hexachloroethane	0.505	0.496	-	1.8	20	85	0
n-Nitrosodi-n-propylamine	0.843	0.815	-	3.3	20	83	0
3-Methylphenol/4-Methylphe	1.022	1.004	-	1.8	20	82	0
Nitrobenzene-d5	1.102	1.008	-	8.5	20	79	0
Nitrobenzene	1.084	1.064	-	1.8	20	84	0
Isophorone	2.1	2.18	-	-3.8	20	88	0
2-Nitrophenol	0.495	0.442	-	10.7	20	76	0
2,4-Dimethylphenol	0.972	0.817	-	15.9	20	69	0
Bis(2-chloroethoxy)methane	1.258	1.275	-	-1.4	20	83	0
2,4-Dichlorophenol	1.126	1.106	-	1.8	20	82	0
1,2,4-Trichlorobenzene	1.352	1.446	-	-7	20	89	0
IS1_Naphthalene-d8	1	1	-	0	20	83	0
Naphthalene	0.964	0.956	-	0.8	20	87	0
Benzoic Acid	5	3.863	-	22.7*	20	72	0
4-Chloroaniline	0.118	0.116	-	1.7	20	90	0
Hexachlorobutadiene	0.228	0.226	-	0.9	20	85	0
p-Chloro-m-cresol	0.261	0.252	-	3.4	20	84	0
2-Methylnaphthalene	0.69	0.674	-	2.3	20	86	0
1-Methylnaphthalene	0.23	0.223	-	3	20	85	0
Hexachlorocyclopentadiene	0.241	0.19	-	21.2*	20	69	0
2,4,6-Trichlorophenol	0.267	0.243	-	9	20	78	0
2,4,5-Trichlorophenol	0.29	0.272	-	6.2	20	80	0
2-Fluorobiphenyl	0.92	0.912	-	0.9	20	90	0
2-Chloronaphthalene	0.759	0.759	-	0	20	87	0
2-Nitroaniline	0.179	0.143	-	20.1*	20	70	0
1,4-Dinitrobenzene	0.08	0.071	-	11.3	20	78	0
1,3-Dinitrobenzene	0.089	0.078	-	12.4	20	74	0
Dimethyl phthalate	0.896	0.861	-	3.9	20	84	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/05/24 08:58		
Lab File ID	: ABN0605	**Init. Calib. Date(s)**	: 05/31/24	06/01/24	
Sample No	: WG1929981-3	**Init. Calib. Times**	: 18:03	05:05	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.13	1.153	-	-2	20	91	0
2,6-Dinitrotoluene	0.157	0.136	-	13.4	20	77	0
1,2-Dinitrobenzene	0.055	0.049	-	10.9	20	76	0
IS1_Acenaphthene-d10	1	1	-	0	20	79	0
3-Nitroaniline	0.236	0.226	-	4.2	20	75	0
Acenaphthene	0.993	0.982	-	1.1	20	85	0
2,4-Dinitrophenol	5	4.622	-	7.6	20	83	0
Dibenzofuran	1.665	1.698	-	-2	20	86	0
2,4-Dinitrotoluene	0.299	0.285	-	4.7	20	75	0
4-Nitrophenol	0.205	0.2	-	2.4	20	75	0
2,3,5,6-Tetrachlorophenol	0.369	0.342	-	7.3	20	76	0
2,3,4,6-Tetrachlorophenol	0.355	0.359	-	-1.1	20	83	0
Diethyl phthalate	1.362	1.32	-	3.1	20	83	0
Fluorene	1.323	1.323	-	0	20	85	0
4-Chlorophenyl phenyl ethe	0.702	0.707	-	-0.7	20	88	0
4-Nitroaniline	0.252	0.248	-	1.6	20	75	0
4,6-Dinitro-o-cresol	5	4.293	-	14.1	20	75	0
NDPA/DPA	1.141	1.165	-	-2.1	20	85	0
Azobenzene	1.142	1.14	-	0.2	20	86	0
2,4,6-Tribromophenol	0.187	0.177	-	5.3	20	75	0
4-Bromophenyl phenyl ether	0.436	0.425	-	2.5	20	83	0
Hexachlorobenzene	0.502	0.485	-	3.4	20	86	0
Pentachlorophenol	5	4.255	-	14.9	20	73	0
IS1_Phenanthrene-d10	1	1	-	0	20	81	0
Phenanthrene	1.003	0.995	-	0.8	20	87	0
Anthracene	0.98	1.006	-	-2.7	20	88	0
Carbazole	0.949	0.933	-	1.7	20	85	0
Di-n-butylphthalate	1.032	0.971	-	5.9	20	80	0
Fluoranthene	1.28	1.246	-	2.7	20	87	0
Benzidine	0.733	0.782	-	-6.7	20	83	0
Pyrene	1.344	1.346	-	-0.1	20	89	0
4-Terphenyl-d14	1.001	0.987	-	1.4	20	86	0
Butyl benzyl phthalate	0.473	0.424	-	10.4	20	77	0
IS1_Chrysene-d12	1	1	-	0	20	80	0
Benzo(a)anthracene	1.378	1.314	-	4.6	20	88	0
3,3'-Dichlorobenzidine	0.473	0.486	-	-2.7	20	86	0
Chrysene	1.263	1.248	-	1.2	20	88	0
Bis(2-ethylhexyl)phthalate	0.666	0.621	-	6.8	20	78	0
Di-n-octylphthalate	1.136	1.05	-	7.6	20	78	0
Benzo(b)fluoranthene	1.418	1.363	-	3.9	20	86	0
Benzo(k)fluoranthene	1.357	1.333	-	1.8	20	92	0
Benzo(a)pyrene	1.262	1.259	-	0.2	20	88	0
IS1_Perylene-d12	1	1	-	0	20	81	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/05/24 08:58		
Lab File ID	: ABN0605	**Init. Calib. Date(s)**	: 05/31/24	06/01/24	
Sample No	: WG1929981-3	**Init. Calib. Times**	: 18:03	05:05	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.186	1.18	-	0.5	20	83	0
Dibenzo(a,h)anthracene	1.089	1.108	-	-1.7	20	89	0
Benzo(ghi)perylene	1.087	1.086	-	0.1	20	88	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/05/24 09:20		
Lab File ID	: AP90605	**Init. Calib. Date(s)**	: 05/31/24	06/01/24	
Sample No	: WG1929981-4	**Init. Calib. Times**	: 18:03	05:05	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	80	0
Benzaldehyde	0.959	0.984	-	-2.6	20	93	0
Acetophenone	1.593	1.704	-	-7	20	89	0
m-Toluidine	1.457	1.598	-	-9.7	20	89	0
2-Chloroaniline	1.441	1.534	-	-6.5	20	88	0
IS2_Naphthalene-d8	1	1	-	0	20	82	0
a-Terpineol	0.248	0.26	-	-4.8	20	92	0
3-Chloroaniline	0.136	0.146	-	-7.4	20	95	0
2,6-Dichlorophenol	0.319	0.324	-	-1.6	20	86	0
1-chloro-2-nitrobenzene	0.121	0.117	-	3.3	20	85	0
Caprolactam	0.129	0.131	-	-1.6	20	87	0
1,2,4,5-Tetrachlorobenzene	0.449	0.48	-	-6.9	20	93	0
Biphenyl	0.931	0.957	-	-2.8	20	91	0
IS2_Acenaphthene-d10	1	1	-	0	20	82	0
Dichloran	5	4.173	-	16.5	20	84	0
Pentachloronitrobenzene	0.16	0.14	-	12.5	20	71	0
IS2_Phenanthrene-d10	1	1	-	0	20	84	0
Diphenamid	0.471	0.472	-	-0.2	20	87	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2430219	
Project Name	: HUNTINGTON READY MIXED		**Project Number**	: 20116	
Instrument ID	: DAKOTA		**Calibration Date**	: 06/05/24 09:42	
Lab File ID	: ADP0605		**Init. Calib. Date(s)**	: 05/31/24	06/01/24
Sample No	: WG1929981-5		**Init. Calib. Times**	: 18:03	05:05
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	88	0
n-Decane	1.164	1.091	-	6.3	20	88	0
IS3_Acenaphthene-d10	1	1	-	0	20	87	0
Atrazine	0.423	0.394	-	6.9	20	88	0
IS3_Phenanthrene-d10	1	1	-	0	20	88	0
n-Octadecane	0.325	0.308	-	5.2	20	88	0
Parathion	5	4.188	-	16.2	20	76	0
3,3'-Dimethylbenzidine	5	4.756	-	4.9	20	90	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/06/24 13:04		
Lab File ID	: ABN0606	**Init. Calib. Date(s)**	: 05/31/24	06/01/24	
Sample No	: WG1930740-3	**Init. Calib. Times**	: 18:03	05:05	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	94	0
n-Nitrosodimethylamine	0.643	0.658	-	-2.3	20	100	0
Pyridine	1.051	0.977	-	7	20	88	0
2-Fluorophenol	1.003	0.973	-	3	20	96	0
Aniline	1.625	1.512	-	7	20	89	0
2-Chlorophenol	1.121	1.137	-	-1.4	20	94	0
Phenol-d6	1.244	1.288	-	-3.5	20	98	0
Phenol	1.393	1.434	-	-2.9	20	96	0
Bis(2-chloroethyl)ether	0.948	0.949	-	-0.1	20	93	0
1,3-Dichlorobenzene	1.422	1.468	-	-3.2	20	100	0
1,4-Dichlorobenzene	1.411	1.475	-	-4.5	20	101	0
1,2-Dichlorobenzene	1.364	1.421	-	-4.2	20	97	0
Benzyl alcohol	0.915	0.919	-	-0.4	20	93	0
Bis(2-chloroisopropyl)ethe	1.578	1.636	-	-3.7	20	101	0
2-Methylphenol	0.937	0.955	-	-1.9	20	94	0
Hexachloroethane	0.505	0.509	-	-0.8	20	97	0
n-Nitrosodi-n-propylamine	0.843	0.821	-	2.6	20	93	0
3-Methylphenol/4-Methylphe	1.022	1.027	-	-0.5	20	93	0
Nitrobenzene-d5	1.102	1.209	-	-9.7	20	105	0
Nitrobenzene	1.084	1.195	-	-10.2	20	104	0
Isophorone	2.1	2.245	-	-6.9	20	100	0
2-Nitrophenol	0.495	0.553	-	-11.7	20	106	0
2,4-Dimethylphenol	0.972	0.861	-	11.4	20	80	0
Bis(2-chloroethoxy)methane	1.258	1.347	-	-7.1	20	98	0
2,4-Dichlorophenol	1.126	1.162	-	-3.2	20	95	0
1,2,4-Trichlorobenzene	1.352	1.473	-	-8.9	20	101	0
IS1_Naphthalene-d8	1	1	-	0	20	95	0
Naphthalene	0.964	0.944	-	2.1	20	99	0
Benzoic Acid	5	5.067	-	-1.3	20	119	0
4-Chloroaniline	0.118	0.113	-	4.2	20	101	0
Hexachlorobutadiene	0.228	0.233	-	-2.2	20	101	0
p-Chloro-m-cresol	0.261	0.26	-	0.4	20	99	0
2-Methylnaphthalene	0.69	0.681	-	1.3	20	99	0
1-Methylnaphthalene	0.23	0.231	-	-0.4	20	101	0
Hexachlorocyclopentadiene	0.241	0.216	-	10.4	20	90	0
2,4,6-Trichlorophenol	0.267	0.285	-	-6.7	20	105	0
2,4,5-Trichlorophenol	0.29	0.308	-	-6.2	20	104	0
2-Fluorobiphenyl	0.92	0.916	-	0.4	20	103	0
2-Chloronaphthalene	0.759	0.784	-	-3.3	20	103	0
2-Nitroaniline	0.179	0.2	-	-11.7	20	112	0
1,4-Dinitrobenzene	0.08	0.105	-	-31.2*	20	132	0
1,3-Dinitrobenzene	0.089	0.118	-	-32.6*	20	127	0
Dimethyl phthalate	0.896	0.978	-	-9.2	20	109	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/06/24 13:04		
Lab File ID	: ABN0606	**Init. Calib. Date(s)**	: 05/31/24	06/01/24	
Sample No	: WG1930740-3	**Init. Calib. Times**	: 18:03	05:05	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.13	1.218	-	-7.8	20	110	0
2,6-Dinitrotoluene	0.157	0.191	-	-21.7*	20	124	0
1,2-Dinitrobenzene	0.055	0.074	-	-34.5*	20	132	0
IS1_Acenaphthene-d10	1	1	-	0	20	95	0
3-Nitroaniline	0.236	0.281	-	-19.1	20	112	0
Acenaphthene	0.993	0.988	-	0.5	20	103	0
2,4-Dinitrophenol	5	6.45	-	-29*	20	145	0
Dibenzofuran	1.665	1.747	-	-4.9	20	107	0
2,4-Dinitrotoluene	0.299	0.396	-	-32.4*	20	124	0
4-Nitrophenol	0.205	0.229	-	-11.7	20	103	0
2,3,5,6-Tetrachlorophenol	0.369	0.409	-	-10.8	20	109	0
2,3,4,6-Tetrachlorophenol	0.355	0.404	-	-13.8	20	112	0
Diethyl phthalate	1.362	1.394	-	-2.3	20	105	0
Fluorene	1.323	1.373	-	-3.8	20	106	0
4-Chlorophenyl phenyl ethe	0.702	0.715	-	-1.9	20	106	0
4-Nitroaniline	0.252	0.3	-	-19	20	109	0
4,6-Dinitro-o-cresol	5	6.668	-	-33.4*	20	146	0
NDPA/DPA	1.141	1.199	-	-5.1	20	105	0
Azobenzene	1.142	1.208	-	-5.8	20	109	0
2,4,6-Tribromophenol	0.187	0.22	-	-17.6	20	112	0
4-Bromophenyl phenyl ether	0.436	0.453	-	-3.9	20	106	0
Hexachlorobenzene	0.502	0.522	-	-4	20	110	0
Pentachlorophenol	5	5.462	-	-9.2	20	114	0
IS1_Phenanthrene-d10	1	1	-	0	20	102	0
Phenanthrene	1.003	0.985	-	1.8	20	108	0
Anthracene	0.98	0.983	-	-0.3	20	108	0
Carbazole	0.949	0.929	-	2.1	20	107	0
Di-n-butylphthalate	1.032	1.034	-	-0.2	20	107	0
Fluoranthene	1.28	1.231	-	3.8	20	108	0
Benzidine	0.733	0.765	-	-4.4	20	103	0
Pyrene	1.344	1.33	-	1	20	110	0
4-Terphenyl-d14	1.001	0.998	-	0.3	20	110	0
Butyl benzyl phthalate	0.473	0.463	-	2.1	20	106	0
IS1_Chrysene-d12	1	1	-	0	20	99	0
Benzo(a)anthracene	1.378	1.308	-	5.1	20	110	0
3,3'-Dichlorobenzidine	0.473	0.494	-	-4.4	20	109	0
Chrysene	1.263	1.224	-	3.1	20	108	0
Bis(2-ethylhexyl)phthalate	0.666	0.682	-	-2.4	20	108	0
Di-n-octylphthalate	1.136	1.168	-	-2.8	20	108	0
Benzo(b)fluoranthene	1.418	1.332	-	6.1	20	106	0
Benzo(k)fluoranthene	1.357	1.32	-	2.7	20	113	0
Benzo(a)pyrene	1.262	1.24	-	1.7	20	108	0
IS1_Perylene-d12	1	1	-	0	20	97	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2430219	
Project Name	: HUNTINGTON READY MIXED		**Project Number**	: 20116	
Instrument ID	: DAKOTA		**Calibration Date**	: 06/06/24 13:04	
Lab File ID	: ABN0606		**Init. Calib. Date(s)**	: 05/31/24	06/01/24
Sample No	: WG1930740-3		**Init. Calib. Times**	: 18:03	05:05
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.186	1.06	-	10.6	20	90	0
Dibenzo(a,h)anthracene	1.089	0.986	-	9.5	20	95	0
Benzo(ghi)perylene	1.087	0.977	-	10.1	20	95	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/06/24 13:26		
Lab File ID	: AP90606	**Init. Calib. Date(s)**	: 05/31/24	06/01/24	
Sample No	: WG1930740-4	**Init. Calib. Times**	: 18:03	05:05	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	85	0
Benzaldehyde	0.959	0.999	-	-4.2	20	101	0
Acetophenone	1.593	1.725	-	-8.3	20	96	0
m-Toluidine	1.457	1.615	-	-10.8	20	96	0
2-Chloroaniline	1.441	1.617	-	-12.2	20	99	0
IS2_Naphthalene-d8	1	1	-	0	20	89	0
a-Terpineol	0.248	0.259	-	-4.4	20	99	0
3-Chloroaniline	0.136	0.14	-	-2.9	20	98	0
2,6-Dichlorophenol	0.319	0.355	-	-11.3	20	101	0
1-chloro-2-nitrobenzene	0.121	0.137	-	-13.2	20	106	0
Caprolactam	0.129	0.137	-	-6.2	20	98	0
1,2,4,5-Tetrachlorobenzene	0.449	0.482	-	-7.3	20	101	0
Biphenyl	0.931	1.006	-	-8.1	20	102	0
IS2_Acenaphthene-d10	1	1	-	0	20	93	0
Dichloran	5	5.316	-	-6.3	20	124	0
Pentachloronitrobenzene	0.16	0.199	-	-24.4*	20	114	0
IS2_Phenanthrene-d10	1	1	-	0	20	98	0
Diphenamid	0.471	0.501	-	-6.4	20	108	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/06/24 13:48		
Lab File ID	: ADP0606	**Init. Calib. Date(s)**	: 05/31/24	06/01/24	
Sample No	: WG1930740-5	**Init. Calib. Times**	: 18:03	05:05	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	91	0
n-Decane	1.164	1.051	-	9.7	20	88	0
IS3_Acenaphthene-d10	1	1	-	0	20	95	0
Atrazine	0.423	0.418	-	1.2	20	101	0
IS3_Phenanthrene-d10	1	1	-	0	20	96	0
n-Octadecane	0.325	0.303	-	6.8	20	94	0
Parathion	5	5.147	-	-2.9	20	103	0
3,3'-Dimethylbenzidine	5	5.039	-	-0.8	20	104	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240604RVT\
Data File : ABN0604.D
Acq On : 4 Jun 2024 10:02 pm
Operator : SV107:sz
Sample : wg1929711-3,32,,ABN LVI CCV Lot # 10526
Misc : wg1929711,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 04 22:24:17 2024
Quant Method : I:\8270\SV107\240604RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	101	0.00
2	t	n-Nitrosodimethylamine		0.704	0.725	-3.0	106	0.00
3	t	Pyridine		1.199	1.133	5.5	99	0.00
4	S	2-Fluorophenol		1.069	1.072	-0.3	105	0.00
5	T	Aniline		1.713	1.541	10.0	95	0.00
6	t	2-Chlorophenol		1.178	1.172	0.5	105	0.00
7	S	Phenol-d6		1.322	1.361	-3.0	109	0.00
8	T	Phenol		1.438	1.426	0.8	106	0.00
9	T	Bis(2-chloroethyl)ether		1.185	1.187	-0.2	110	0.00
10	T	1,3-Dichlorobenzene		1.452	1.430	1.5	106	0.00
11	T	1,4-Dichlorobenzene		1.478	1.468	0.7	107	0.00
12	T	1,2-Dichlorobenzene		1.426	1.403	1.6	106	0.00
13	t	Benzyl alcohol		1.000	0.953	4.7	102	0.00
14	T	Bis(2-chloroisopropyl)ether		1.623	1.645	-1.4	111	0.00
15	T	2-Methylphenol		1.031	1.018	1.3	104	0.00
16	T	Hexachloroethane		0.545	0.548	-0.6	107	0.00
17	T	n-Nitrosodi-n-propylamine		0.879	0.855	2.7	104	0.00
18	T	3-Methylphenol/4-Methylphen		1.084	1.101	-1.6	103	0.00
19	S	Nitrobenzene-d5		1.165	1.203	-3.3	105	0.00
20	T	Nitrobenzene		1.197	1.227	-2.5	105	0.00
21	T	Isophorone		2.310	2.234	3.3	101	0.00
22	T	2-Nitrophenol		0.533	0.531	0.4	108	0.00
23	T	2,4-Dimethylphenol		1.088	0.911	16.3	87	0.00
24	T	Bis(2-chloroethoxy)methane		1.508	1.528	-1.3	110	0.00
25	T	2,4-Dichlorophenol		1.094	1.102	-0.7	102	0.00
26	T	1,2,4-Trichlorobenzene		1.318	1.330	-0.9	110	0.00
34	I	IS1_Naphthalene-d8		1.000	1.000	0.0	104	0.00
35	T	Naphthalene		0.996	0.967	2.9	109	0.00
36	T	Benzoic Acid	*	5.000	4.665	6.7	101	0.00
37	T	4-Chloroaniline		0.126	0.122	3.2	106	0.00
38	T	Hexachlorobutadiene		0.211	0.202	4.3	107	0.00
39	T	p-Chloro-m-cresol		0.272	0.270	0.7	102	0.00
40	T	2-Methylnaphthalene		0.688	0.663	3.6	105	0.00
41	T	1-Methylnaphthalene		0.235	0.228	3.0	108	0.00
42	T	Hexachlorocyclopentadiene		0.205	0.178	13.2	94	0.00
43	T	2,4,6-Trichlorophenol		0.237	0.233	1.7	100	0.00
44	T	2,4,5-Trichlorophenol		0.251	0.253	-0.8	103	0.00
45	S	2-Fluorobiphenyl		0.866	0.824	4.8	104	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240604RVT\
Data File : ABN0604.D
Acq On : 4 Jun 2024 10:02 pm
Operator : SV107:sz
Sample : wg1929711-3,32,,ABN LVI CCV Lot # 10526
Misc : wg1929711,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 04 22:24:17 2024
Quant Method : I:\8270\SV107\240604RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene		0.715	0.681	4.8	105	0.00
47	T	2-Nitroaniline		0.173	0.171	1.2	102	0.00
48	T	1,4-Dinitrobenzene		0.087	0.080	8.0	109	0.00
49	T	1,3-Dinitrobenzene		0.109	0.099	9.2	104	0.00
50	T	Dimethyl phthalate		0.839	0.804	4.2	103	0.00
51	T	Acenaphthylene		1.079	1.083	-0.4	107	0.00
52	T	2,6-Dinitrotoluene		0.153	0.159	-3.9	104	0.00
53	T	1,2-Dinitrobenzene		0.068	0.070	-2.9	104	0.00
62	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	99	0.00
63	T	3-Nitroaniline		0.259	0.269	-3.9	104	0.00
64	T	Acenaphthene		1.081	1.002	7.3	102	0.00
65	T	2,4-Dinitrophenol	*	5.000	4.378	12.4	103	0.00
66	T	Dibenzofuran		1.757	1.673	4.8	103	0.00
67	T	2,4-Dinitrotoluene	*	5.000	4.494	10.1	105	0.00
68	T	4-Nitrophenol		0.221	0.214	3.2	102	0.00
69	T	2,3,5,6-Tetrachlorophenol		0.318	0.337	-6.0	104	0.00
70	T	2,3,4,6-Tetrachlorophenol		0.314	0.330	-5.1	102	0.00
71	T	Diethyl phthalate		1.301	1.247	4.2	103	0.00
72	T	Fluorene		1.328	1.276	3.9	103	0.00
73	T	4-Chlorophenyl phenyl ether		0.672	0.652	3.0	105	0.00
74	T	4-Nitroaniline		0.262	0.266	-1.5	105	0.00
75	T	4,6-Dinitro-o-cresol	*	5.000	4.135	17.3	105	0.00
76	T	NDPA/DPA		1.131	1.090	3.6	102	0.00
77	T	Azobenzene		1.259	1.266	-0.6	105	0.00
78	S	2,4,6-Tribromophenol		0.171	0.174	-1.8	98	0.00
79	T	4-Bromophenyl phenyl ether		0.376	0.354	5.9	102	0.00
80	T	Hexachlorobenzene		0.431	0.389	9.7	99	0.00
81	T	Pentachlorophenol		0.252	0.232	7.9	97	0.00
87	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	97	0.00
88	T	Phenanthrene		1.038	0.995	4.1	102	0.00
89	T	Anthracene		1.030	0.990	3.9	102	0.00
90	T	Carbazole		0.928	0.893	3.8	99	0.00
91	T	Di-n-butylphthalate		1.088	1.061	2.5	99	0.00
92	T	Fluoranthene		1.186	1.116	5.9	99	0.00
93	T	Benzidine		0.721	0.658	8.7	95	0.00
94	T	Pyrene		1.269	1.205	5.0	101	0.00
95	S	4-Terphenyl-d14		0.875	0.847	3.2	103	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240604RVT\
Data File : ABN0604.D
Acq On : 4 Jun 2024 10:02 pm
Operator : SV107:sz
Sample : wg1929711-3,32,,ABN LVI CCV Lot # 10526
Misc : wg1929711,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 04 22:24:17 2024
Quant Method : I:\8270\SV107\240604RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	*	5.000	4.109	17.8	96	0.00
103	I	IS1_Chrysene-d12		1.000	1.000	0.0	97	0.00
104	T	Benzo(a)anthracene		1.335	1.279	4.2	102	0.00
105	T	3,3'-Dichlorobenzidine		0.430	0.421	2.1	95	0.00
106	T	Chrysene		1.276	1.210	5.2	101	0.00
107	T	Bis(2-ethylhexyl)phthalate	*	5.000	4.313	13.7	97	0.00
108	T	Di-n-octylphthalate	*	5.000	4.155	16.9	97	0.00
109	T	Benzo(b)fluoranthene		1.178	1.104	6.3	97	0.00
110	T	Benzo(k)fluoranthene		1.154	1.184	-2.6	104	0.00
111	T	Benzo(a)pyrene		1.025	1.019	0.6	101	0.00
112	I	IS1_Perylene-d12		1.000	1.000	0.0	94	0.00
113	T	Indeno(1,2,3-cd)pyrene		0.952	0.993	-4.3	105	0.00
114	T	Dibenzo(a,h)anthracene		0.953	1.040	-9.1	102	0.00
115	T	Benzo(ghi)perylene		0.928	0.964	-3.9	103	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240604RVT\
Data File : ABN0604.D
Acq On : 4 Jun 2024 10:02 pm
Operator : SV107:sz
Sample : wg1929711-3,32,,ABN LVI CCV Lot # 10526
Misc : wg1929711,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 04 22:24:17 2024
Quant Method : I:\8270\SV107\240604RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	52630	4.000	ug/ml	0.00
34) IS1_Naphthalene-d8	7.957	136	197654	4.000	ug/ml	0.00
62) IS1_Acenaphthene-d10	9.728	164	122929	4.000	ug/ml	0.00
87) IS1_Phenanthrene-d10	11.175	188	245414	4.000	ug/ml	0.00
103) IS1_Chrysene-d12	13.839	240	226686	4.000	ug/ml	0.00
112) IS1_Perylene-d12	15.327	264	226371	4.000	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.687	112	70523	5.013	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 250.65%#			
7) Phenol-d6	6.157	99	89544	5.149	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 257.45%#			
19) Nitrobenzene-d5	7.181	82	79137	5.164	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 516.40%#			
45) 2-Fluorobiphenyl	9.081	172	203702	4.759	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 475.90%#			
78) 2,4,6-Tribromophenol	10.498	330	26716	5.097	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 254.85%#			
95) 4-Terphenyl-d14	12.763	244	259719	4.837	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 483.70%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.263	74	47727	5.154	ug/ml#	67
3) Pyridine	2.293	79	74508	4.721	ug/ml#	61
5) Aniline	6.128	93	101347	4.497	ug/ml	97
6) 2-Chlorophenol	6.269	128	77078	4.972	ug/ml	94
8) Phenol	6.169	94	93839	4.959	ug/ml	99
9) Bis(2-chloroethyl)ether	6.251	93	78095	5.008	ug/ml	86
10) 1,3-Dichlorobenzene	6.457	146	94057	4.924	ug/ml	98
11) 1,4-Dichlorobenzene	6.551	146	96565	4.967	ug/ml	98
12) 1,2-Dichlorobenzene	6.728	146	92282	4.919	ug/ml	98
13) Benzyl alcohol	6.734	79	62724	4.765	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	108221	5.068	ug/ml#	46
15) 2-Methylphenol	6.904	108	66968	4.938	ug/ml	98
16) Hexachloroethane	7.122	117	36025	5.024	ug/ml#	61
17) n-Nitrosodi-n-propylamine	7.057	70	56257	4.863	ug/ml#	91
18) 3-Methylphenol/4-Methy...	7.087	108	72442	5.077	ug/ml	97
20) Nitrobenzene	7.204	77	80705	5.125	ug/ml	98
21) Isophorone	7.481	82	146961	4.835	ug/ml	97
22) 2-Nitrophenol	7.563	139	34932	4.979	ug/ml	92

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240604RVT\
Data File : ABN0604.D
Acq On : 4 Jun 2024 10:02 pm
Operator : SV107:sz
Sample : wg1929711-3,32,,ABN LVI CCV Lot # 10526
Misc : wg1929711,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 04 22:24:17 2024
Quant Method : I:\8270\SV107\240604RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	7.657	107	59941	4.188	ug/ml	99
24) Bis(2-chloroethoxy)met...	7.751	93	100532	5.068	ug/ml	99
25) 2,4-Dichlorophenol	7.828	162	72480	5.036	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.910	180	87467	5.042	ug/ml	98
35) Naphthalene	7.975	128	238902	4.855	ug/ml	99
36) Benzoic Acid	7.751	105	39484	4.665	ug/ml	96
37) 4-Chloroaniline	8.057	65	30225	4.869	ug/ml	94
38) Hexachlorobutadiene	8.145	225	49889	4.793	ug/ml	98
39) p-Chloro-m-cresol	8.581	107	66784	4.963	ug/ml	98
40) 2-Methylnaphthalene	8.698	142	163844	4.817	ug/ml	95
41) 1-Methylnaphthalene	8.792	115	56372	4.860	ug/ml	94
42) Hexachlorocyclopentadiene	8.875	237	43983	4.337	ug/ml	98
43) 2,4,6-Trichlorophenol	8.992	196	57639	4.926	ug/ml	98
44) 2,4,5-Trichlorophenol	9.022	196	62531	5.039	ug/ml	97
46) 2-Chloronaphthalene	9.175	162	168235	4.759	ug/ml	96
47) 2-Nitroaniline	9.292	138	42252	4.942	ug/ml	92
48) 1,4-Dinitrobenzene	9.422	168	19649	4.572	ug/ml	82
49) 1,3-Dinitrobenzene	9.498	168	24527	4.565	ug/ml#	1
50) Dimethyl phthalate	9.492	163	198759	4.796	ug/ml#	98
51) Acenaphthylene	9.581	152	267558	5.016	ug/ml	99
52) 2,6-Dinitrotoluene	9.539	165	39342	5.219	ug/ml#	82
53) 1,2-Dinitrobenzene	9.581	168	17292	5.134	ug/ml#	1
63) 3-Nitroaniline	9.692	138	41365	5.187	ug/ml	100
64) Acenaphthene	9.757	154	154031	4.636	ug/ml	93
65) 2,4-Dinitrophenol	9.798	184	18073	4.378	ug/ml	89
66) Dibenzofuran	9.928	168	257070	4.762	ug/ml	93
67) 2,4-Dinitrotoluene	9.928	165	52834	4.494	ug/ml	96
68) 4-Nitrophenol	9.881	65	32819	4.823	ug/ml#	90
69) 2,3,5,6-Tetrachlorophenol	10.022	232	51716	5.296	ug/ml	97
70) 2,3,4,6-Tetrachlorophenol	10.063	232	50755	5.263	ug/ml	97
71) Diethyl phthalate	10.192	149	191687	4.793	ug/ml	97
72) Fluorene	10.263	166	196012	4.802	ug/ml	93
73) 4-Chlorophenyl phenyl ...	10.281	204	100211	4.853	ug/ml	88
74) 4-Nitroaniline	10.286	138	40814	5.059	ug/ml	86
75) 4,6-Dinitro-o-cresol	10.322	198	25395	4.135	ug/ml#	63
76) NDPA/DPA	10.398	169	167422	4.815	ug/ml	94
77) Azobenzene	10.433	77	194527	5.027	ug/ml	97
79) 4-Bromophenyl phenyl e...	10.757	248	54438	4.706	ug/ml#	88
80) Hexachlorobenzene	10.810	284	59844	4.519	ug/ml#	88
81) Pentachlorophenol	11.004	266	35577	4.602	ug/ml	98
88) Phenanthrene	11.192	178	305293	4.793	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240604RVT\
Data File : ABN0604.D
Acq On : 4 Jun 2024 10:02 pm
Operator : SV107:sz
Sample : wg1929711-3,32,,ABN LVI CCV Lot # 10526
Misc : wg1929711,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 04 22:24:17 2024
Quant Method : I:\8270\SV107\240604RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	Anthracene	11.245	178	303650	4.806	ug/ml	99
90)	Carbazole	11.410	167	274053	4.813	ug/ml	97
91)	Di-n-butylphthalate	11.798	149	325393	4.874	ug/ml	99
92)	Fluoranthene	12.357	202	342244	4.704	ug/ml#	92
93)	Benzidine	12.510	184	202001	4.569	ug/ml#	94
94)	Pyrene	12.575	202	369714	4.750	ug/ml	99
96)	Butyl benzyl phthalate	13.292	149	127719	4.109	ug/ml	94
104)	Benzo(a)anthracene	13.827	228	362459	4.792	ug/ml	99
105)	3,3'-Dichlorobenzidine	13.821	252	119366	4.900	ug/ml#	97
106)	Chrysene	13.863	228	342970	4.744	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.939	149	209233	4.313	ug/ml#	96
108)	Di-n-octylphthalate	14.627	149	324274	4.155	ug/ml#	74
109)	Benzo(b)fluoranthene	14.951	252	312775	4.685	ug/ml#	94
110)	Benzo(k)fluoranthene	14.980	252	335600	5.132	ug/ml#	93
111)	Benzo(a)pyrene	15.268	252	288635	4.967	ug/ml#	93
113)	Indeno(1,2,3-cd)pyrene	16.345	276	280885M6	5.214	ug/mL	
114)	Dibenzo(a,h)anthracene	16.368	278	294248	5.456	ug/ml#	91
115)	Benzo(ghi)perylene	16.621	276	272774	5.195	ug/ml#	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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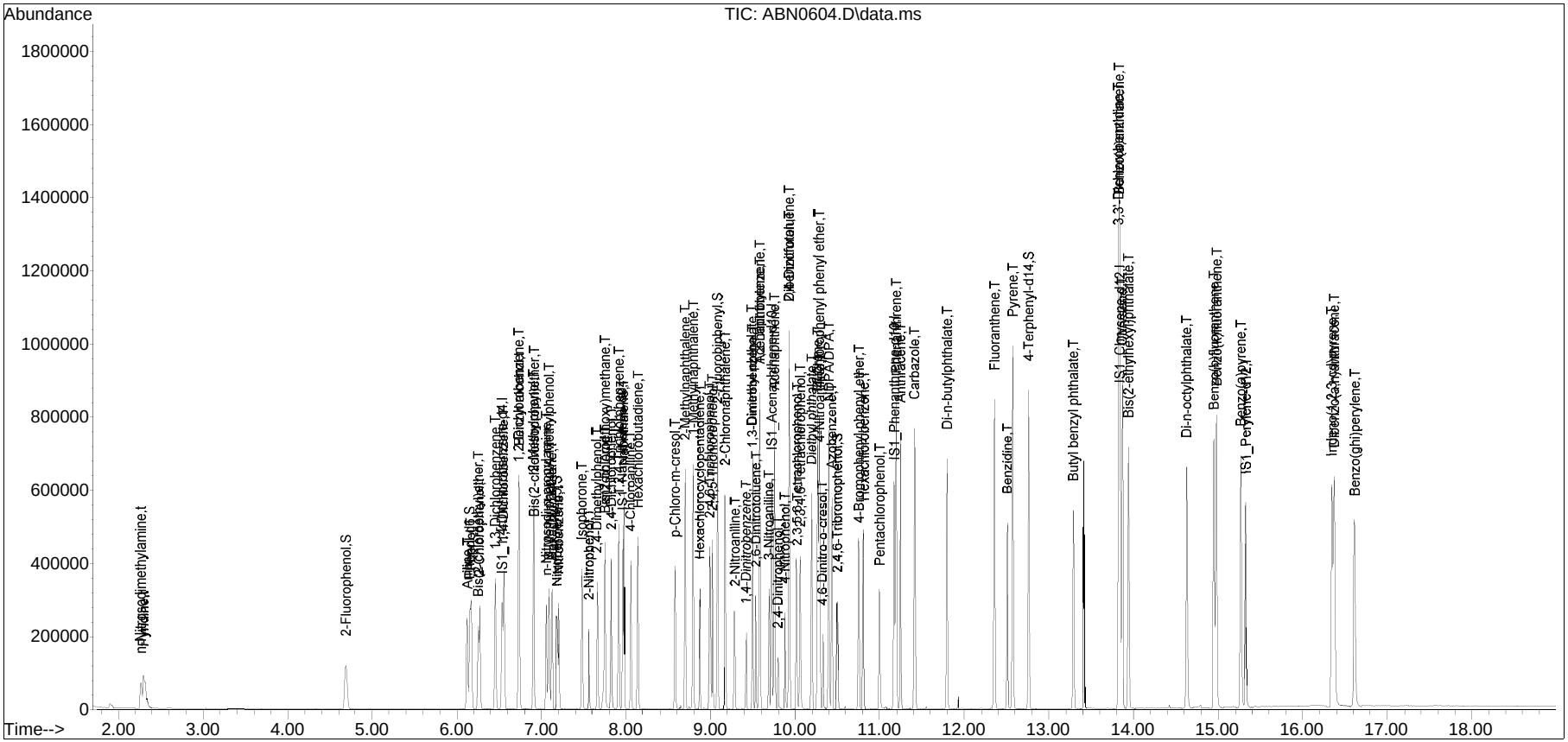
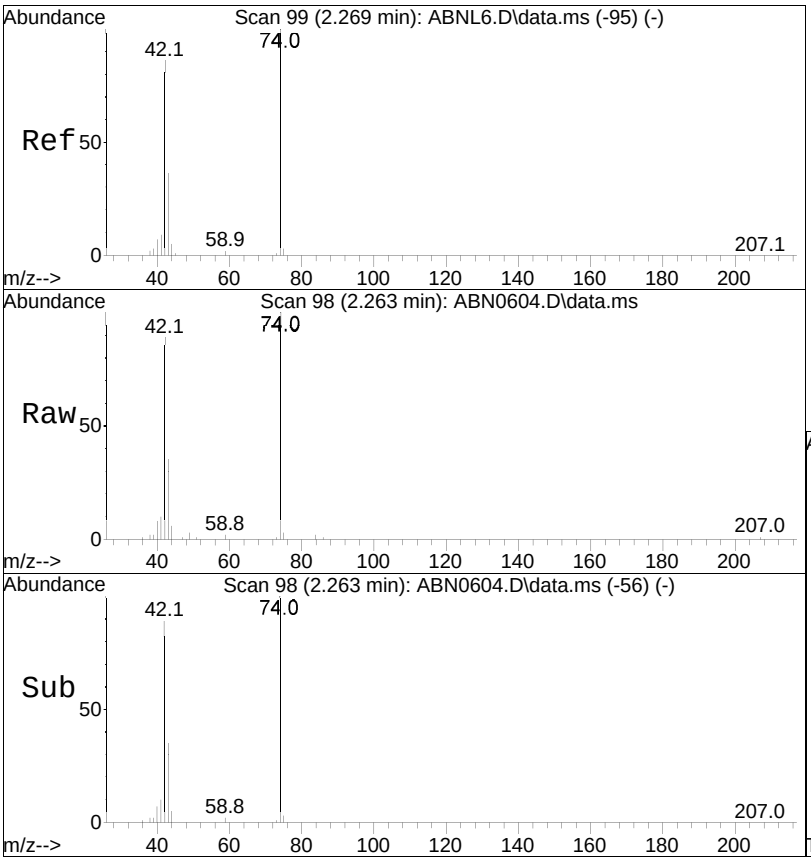
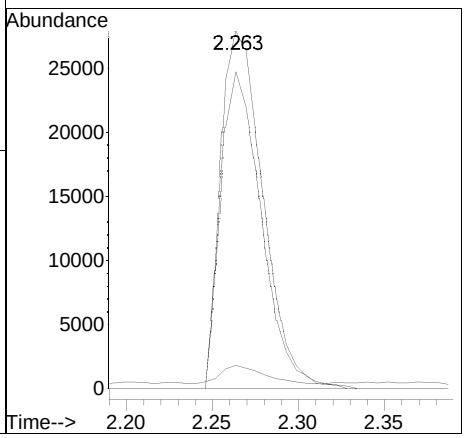


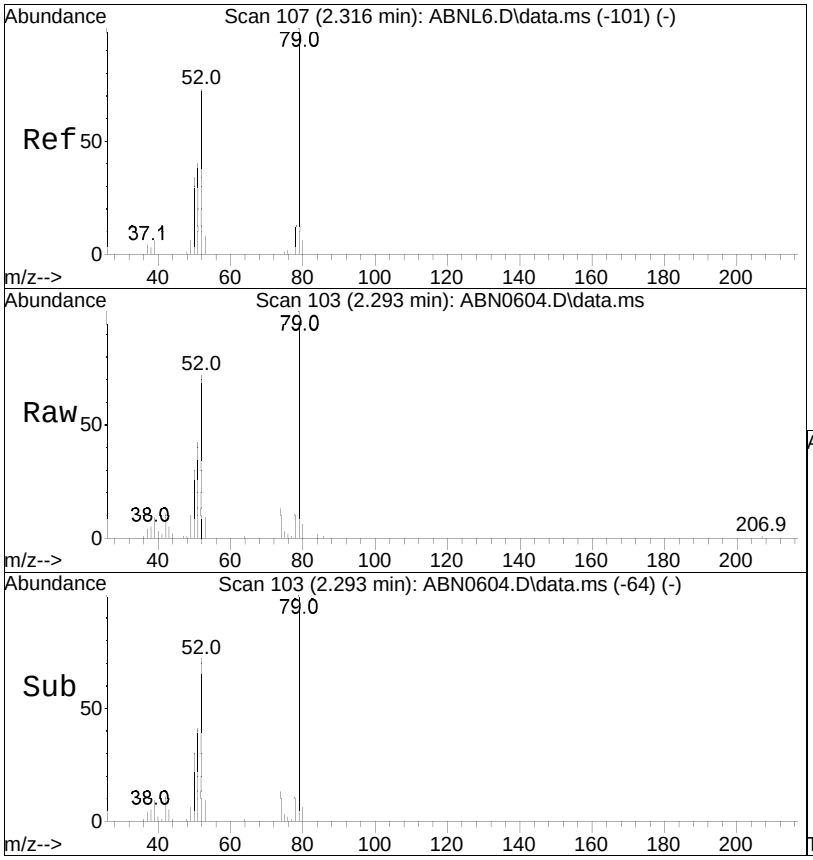


#2
n-Nitrosodimethylamine
Concen: 5.15 ug/ml
RT: 2.263 min Scan# 98
Delta R.T. -0.006 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion: 74 Resp: 47727

Ion	Ratio	Lower	Upper
74	100		
42	85.1	100.0	150.0#
44	5.1	6.7	10.1#

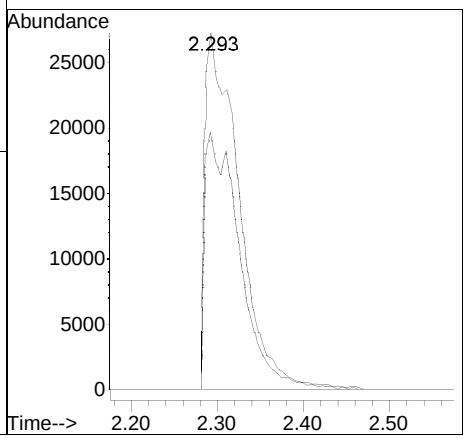


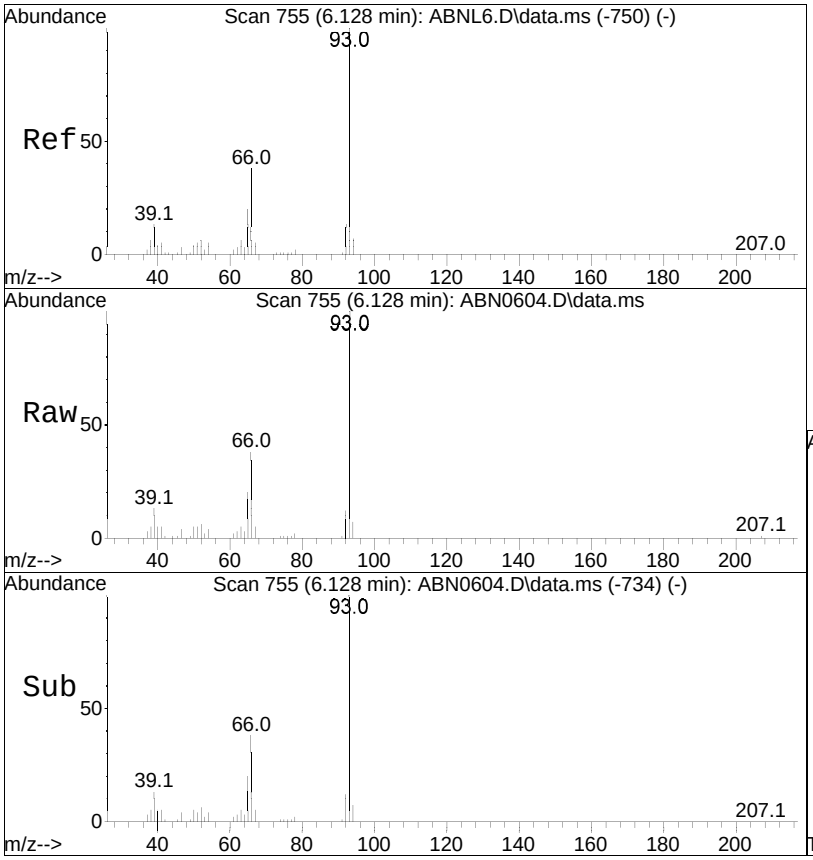


#3
Pyridine
Concen: 4.72 ug/ml
RT: 2.293 min Scan# 103
Delta R.T. -0.023 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion: 79 Resp: 74508

Ion	Ratio	Lower	Upper
79	100		
52	73.5	93.1	139.7#

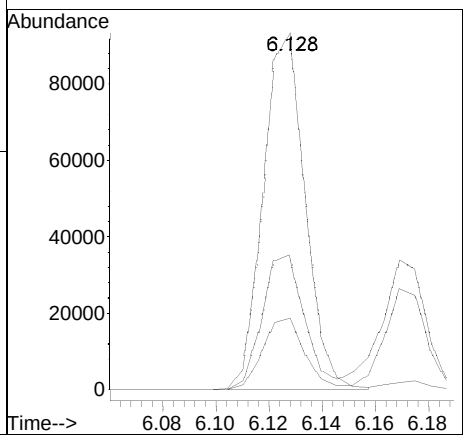


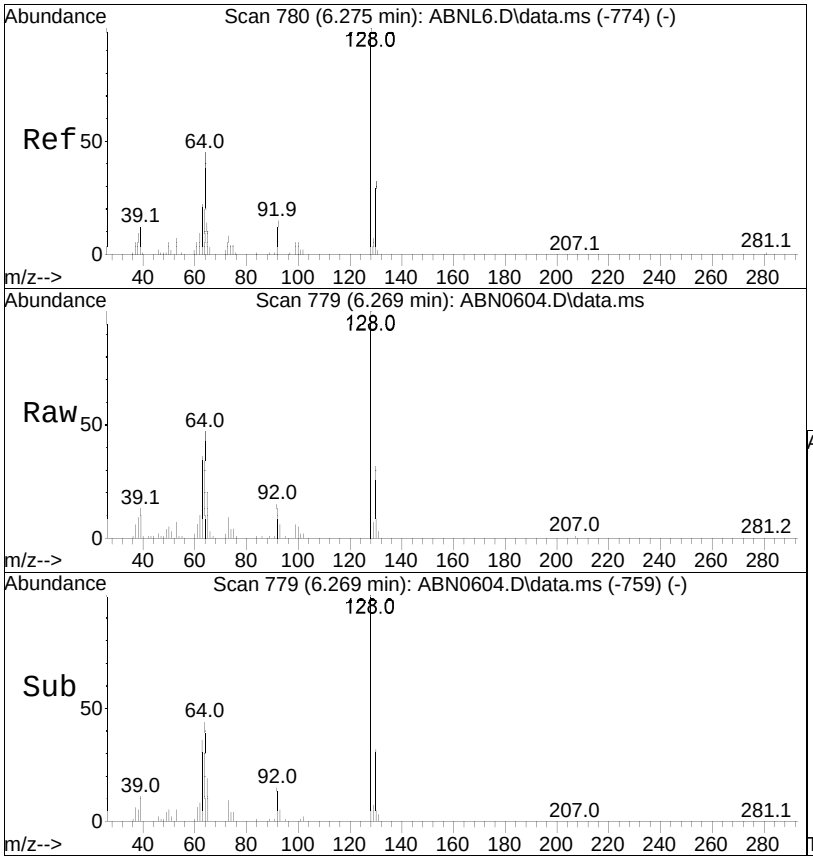


#5
Aniline
Concen: 4.50 ug/ml
RT: 6.128 min Scan# 755
Delta R.T. -0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion: 93 Resp: 101347

Ion	Ratio	Lower	Upper
93	100		
66	38.7	32.6	49.0
65	20.2	17.6	26.4

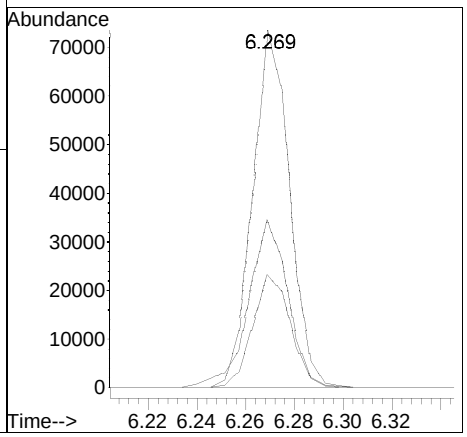


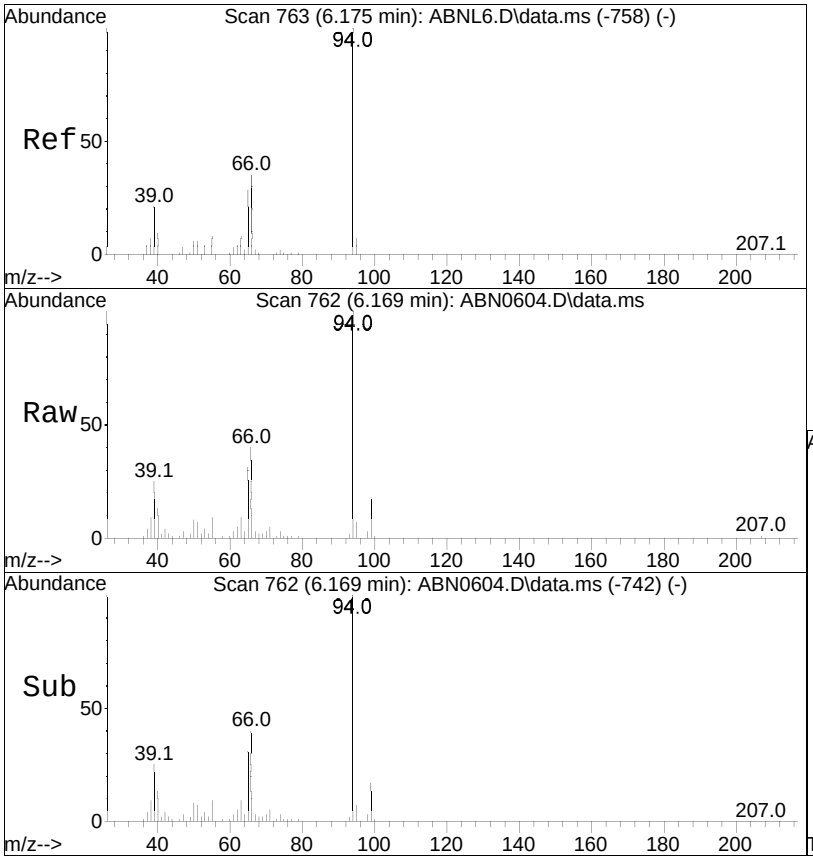


#6
2-Chlorophenol
Concen: 4.97 ug/ml
RT: 6.269 min Scan# 779
Delta R.T. -0.006 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:128 Resp: 77078

Ion	Ratio	Lower	Upper
128	100		
64	50.1	45.1	67.7
130	32.4	26.2	39.4

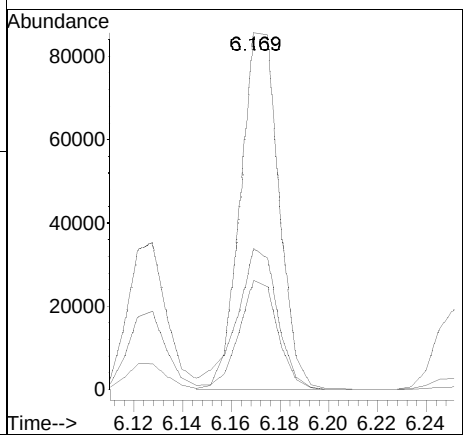


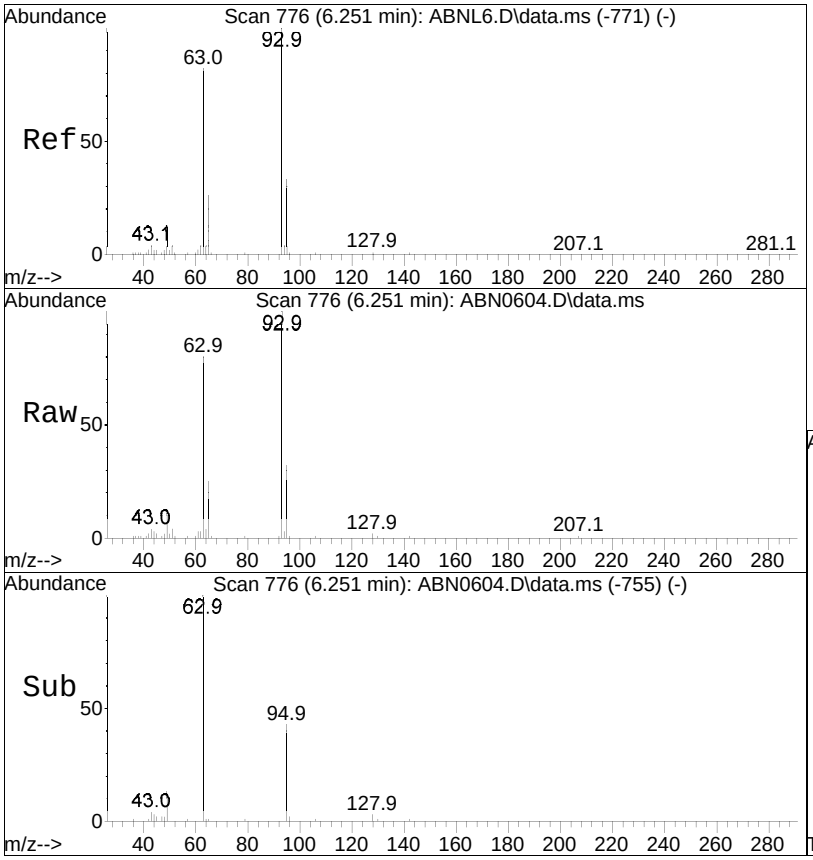


#8
Phenol
Concen: 4.96 ug/ml
RT: 6.169 min Scan# 762
Delta R.T. -0.006 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion: 94 Resp: 93839

Ion	Ratio	Lower	Upper
94	100		
65	30.8	26.0	39.0
66	42.3	33.8	50.8

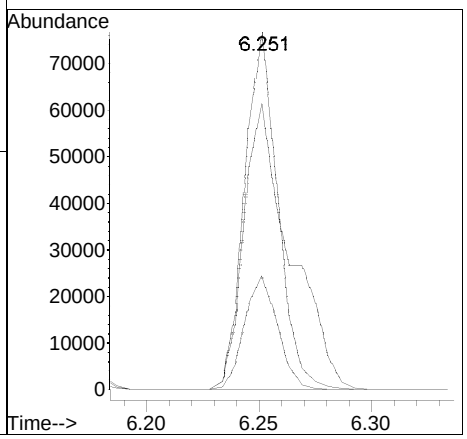


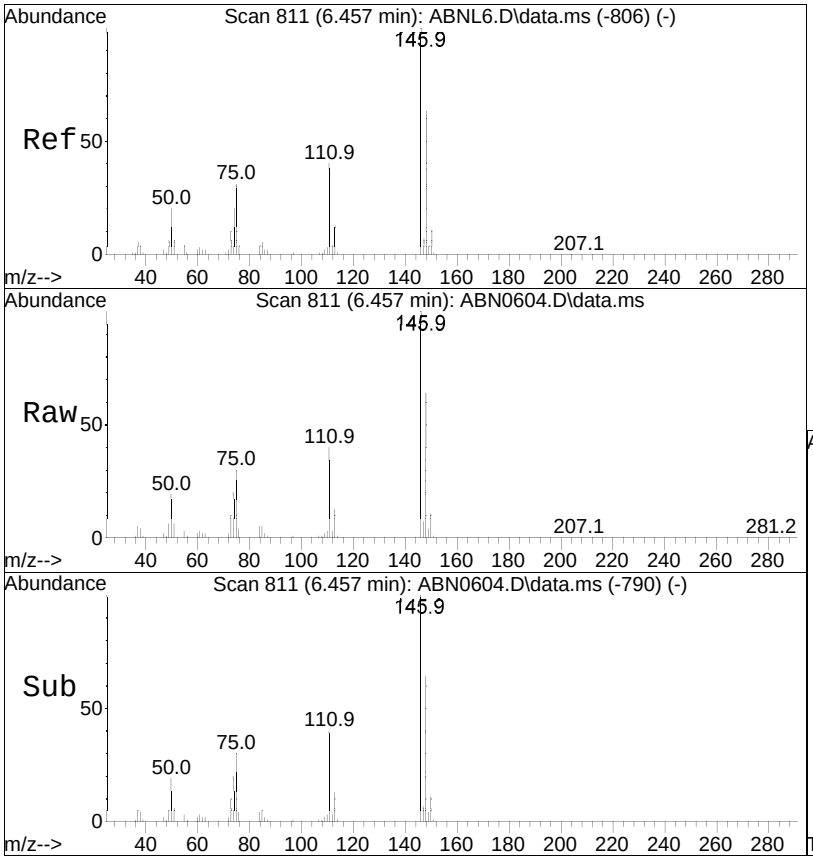


#9
Bis(2-chloroethyl)ether
Concen: 5.01 ug/ml
RT: 6.251 min Scan# 776
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion: 93 Resp: 78095

Ion	Ratio	Lower	Upper
93	100		
63	111.2	74.6	111.8
95	32.0	25.9	38.9

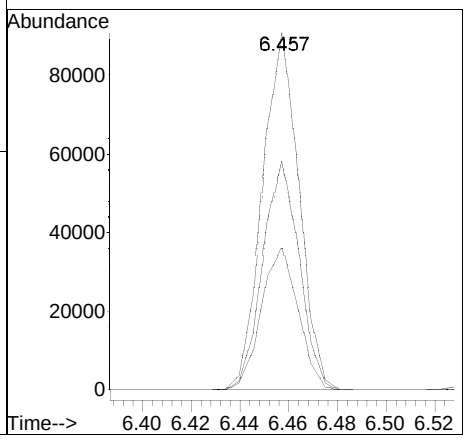


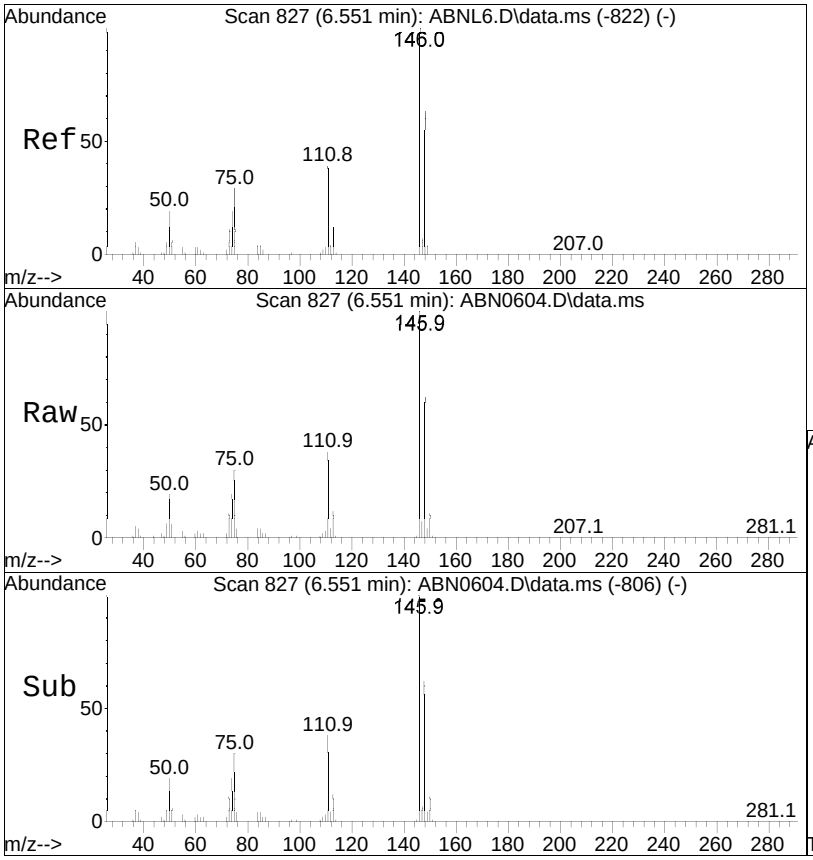


#10
1,3-Dichlorobenzene
Concen: 4.92 ug/ml
RT: 6.457 min Scan# 811
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:146 Resp: 94057

Ion	Ratio	Lower	Upper
146	100		
111	40.4	34.3	51.5
148	64.1	50.8	76.2

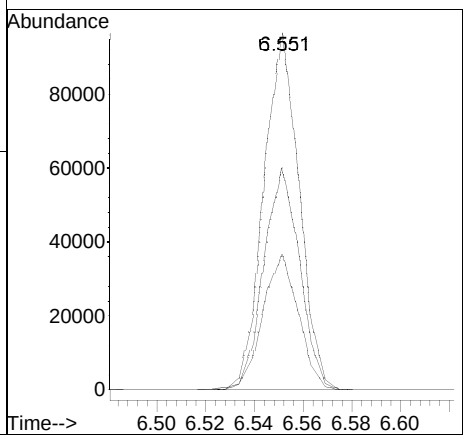


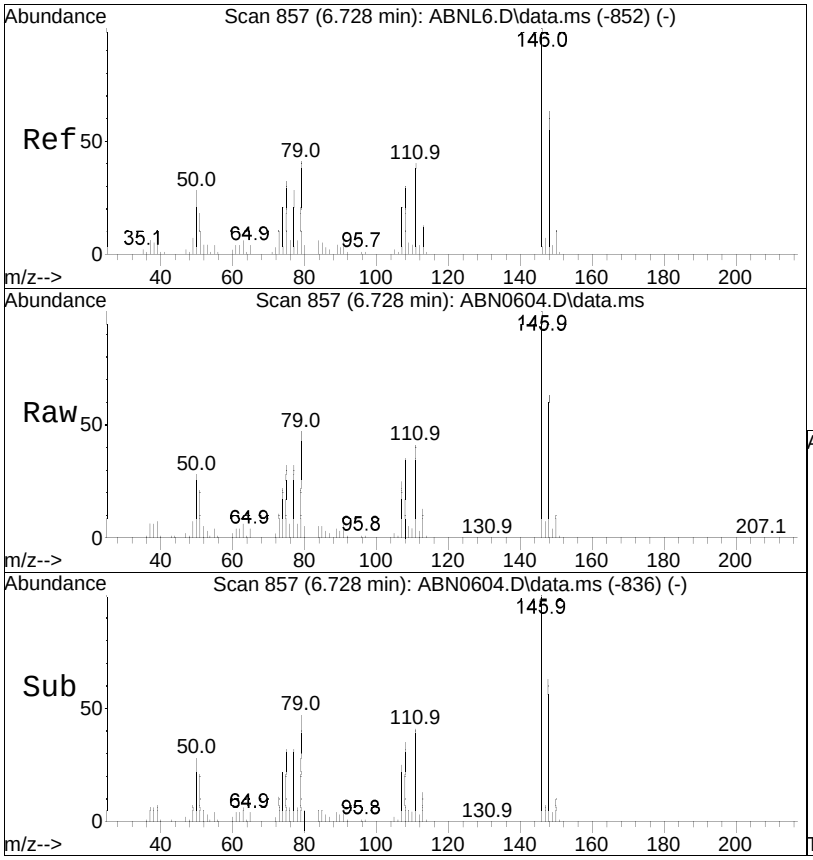


#11
1,4-Dichlorobenzene
Concen: 4.97 ug/ml
RT: 6.551 min Scan# 827
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:146 Resp: 96565

Ion	Ratio	Lower	Upper
146	100		
148	63.0	50.7	76.1
111	38.9	33.4	50.0

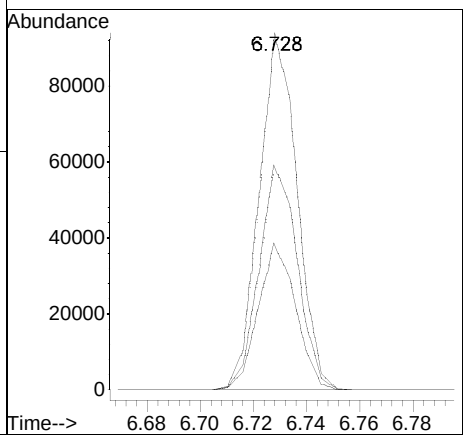


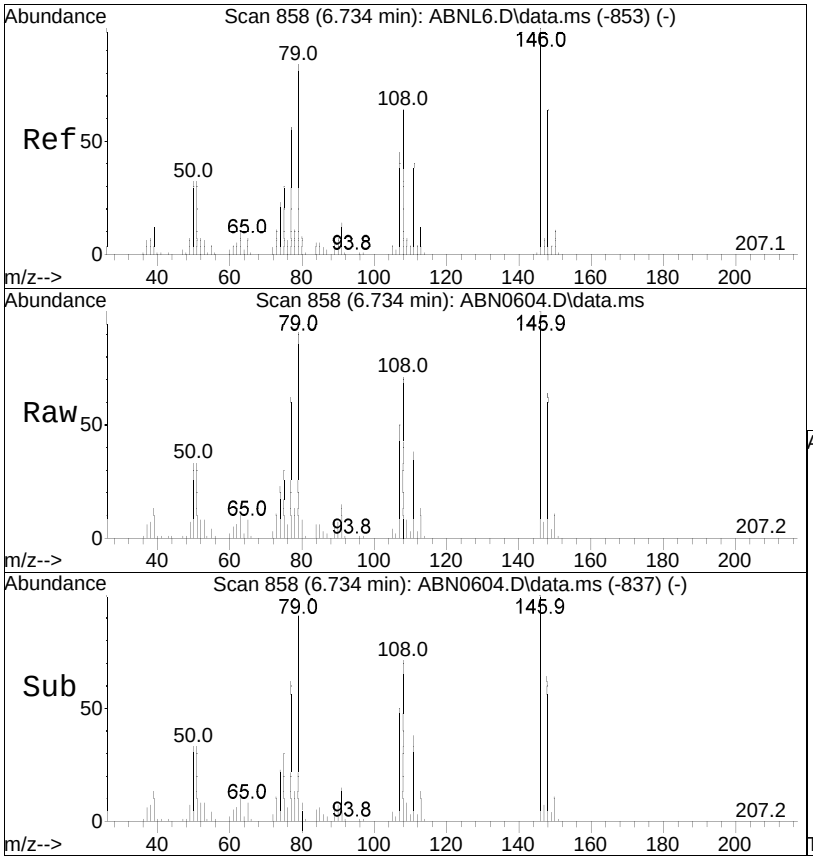


#12
1,2-Dichlorobenzene
Concen: 4.92 ug/ml
RT: 6.728 min Scan# 857
Delta R.T. -0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:146 Resp: 92282

Ion	Ratio	Lower	Upper
146	100		
111	40.8	34.6	52.0
148	63.7	50.2	75.4

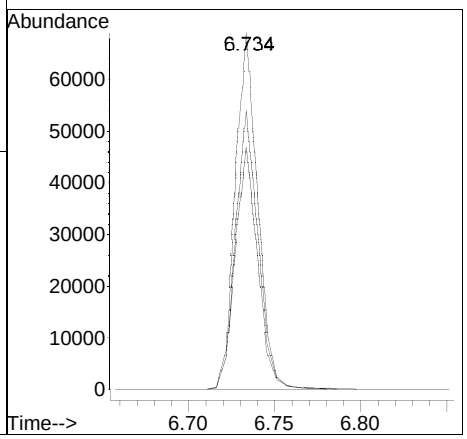


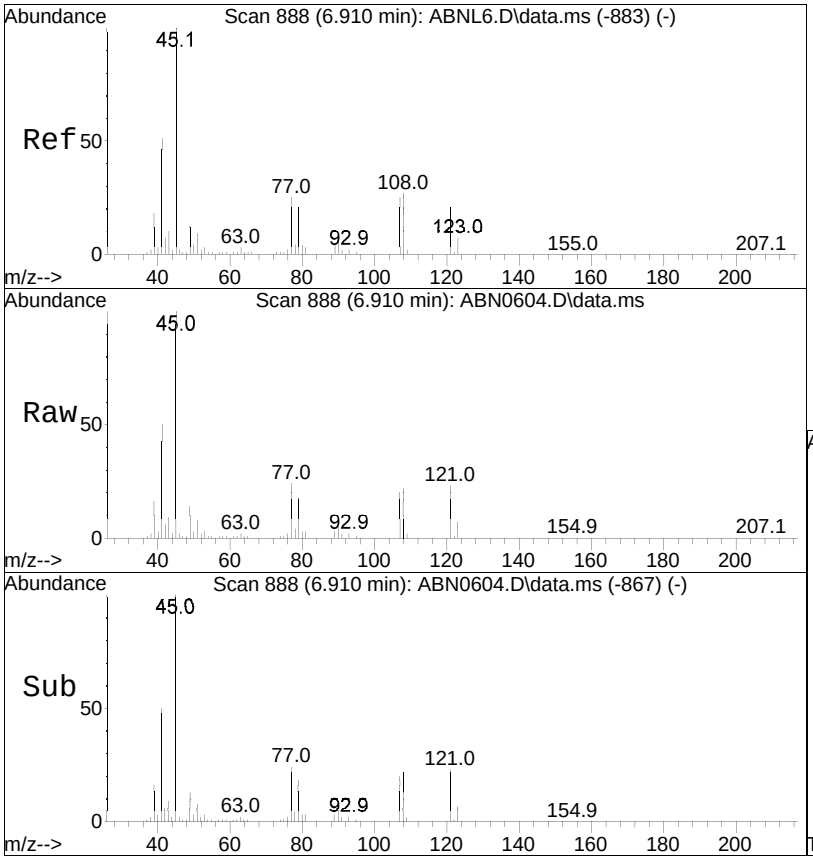


#13
Benzyl alcohol
Concen: 4.77 ug/ml
RT: 6.734 min Scan# 858
Delta R.T. -0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion: 79 Resp: 62724

Ion	Ratio	Lower	Upper
79	100		
77	68.2	54.9	82.3
108	77.9	63.1	94.7

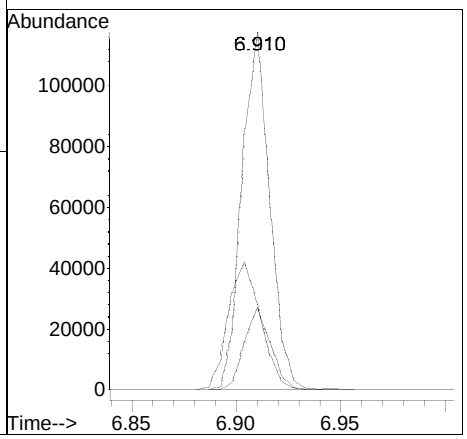


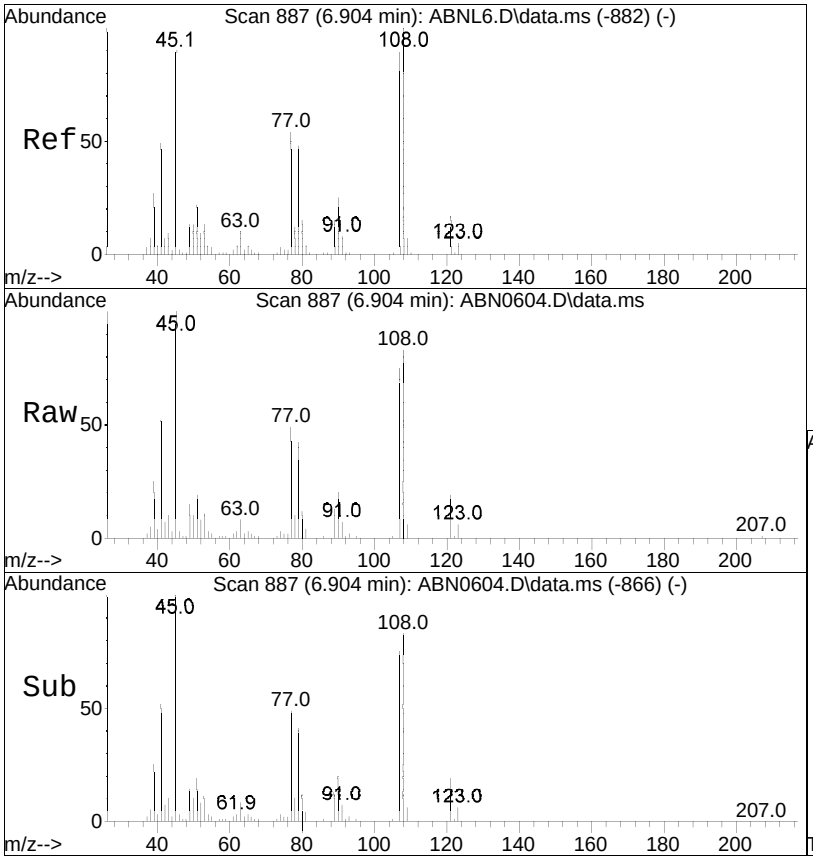


#14
Bis(2-chloroisopropyl)ether
Concen: 5.07 ug/ml
RT: 6.910 min Scan# 888
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion: 45 Resp: 108221

Ion	Ratio	Lower	Upper
45	100		
121	22.1	9.8	14.6#
77	42.4	6.1	9.1#

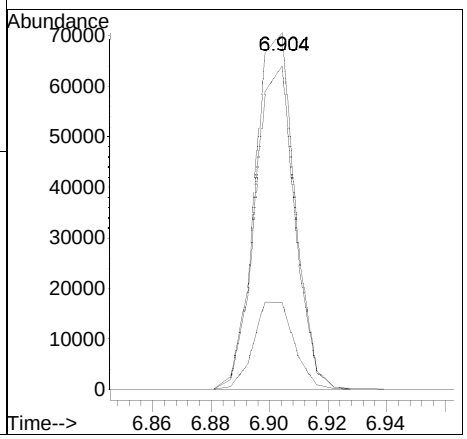


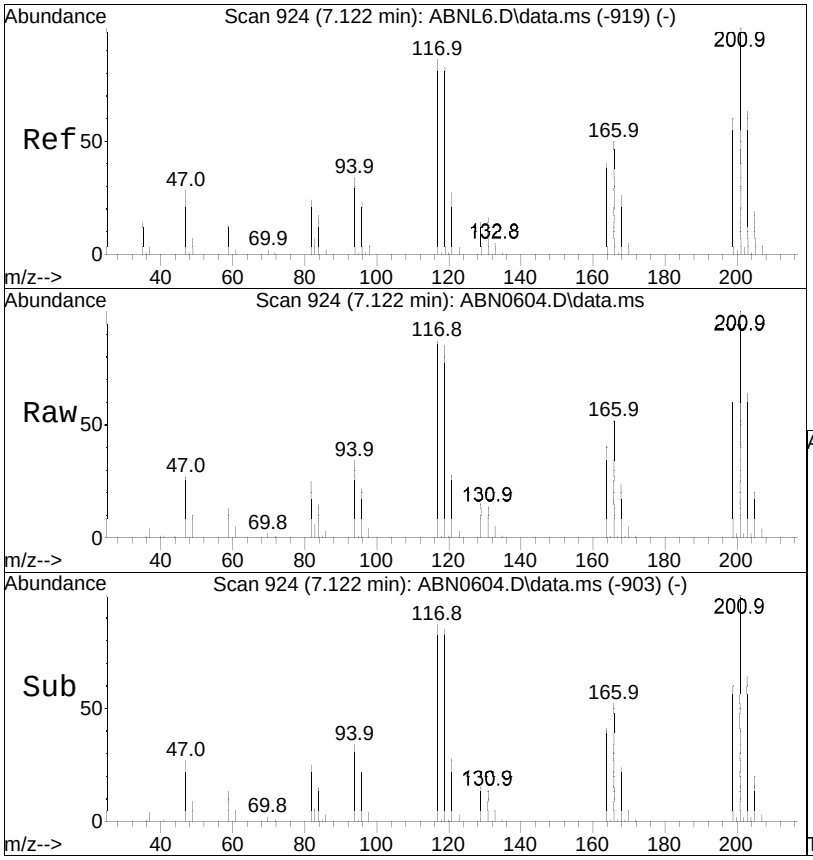


#15
2-Methylphenol
Concen: 4.94 ug/ml
RT: 6.904 min Scan# 887
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:108 Resp: 66968

Ion	Ratio	Lower	Upper
108	100		
107	90.3	70.7	106.1
90	25.0	18.7	28.1

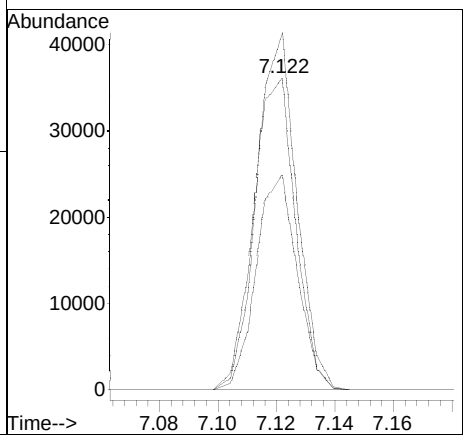


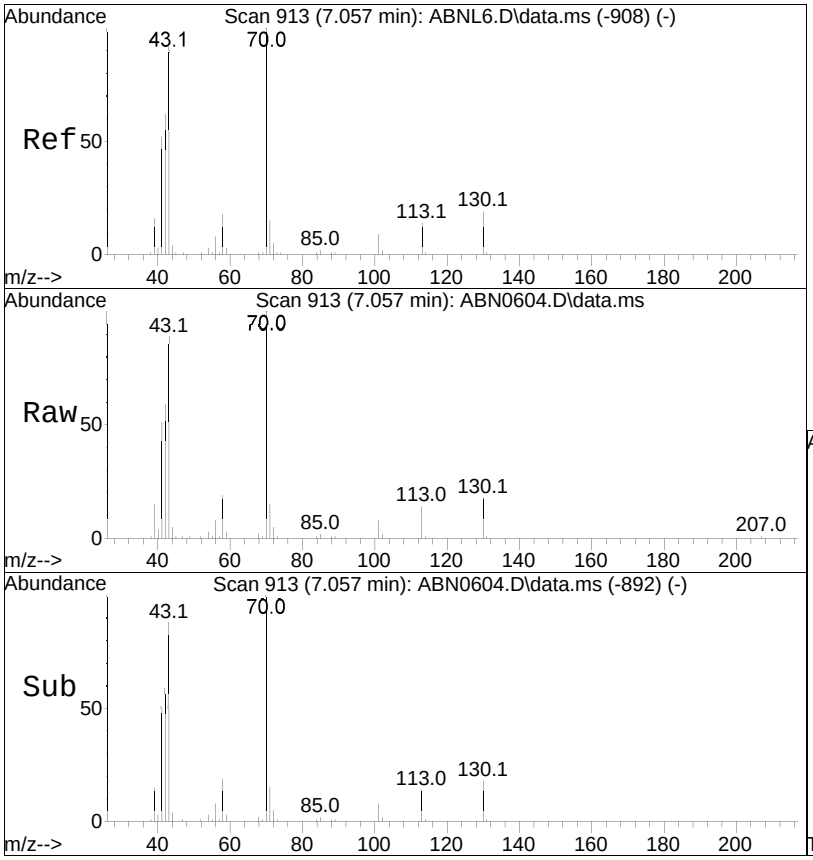


#16
Hexachloroethane
Concen: 5.02 ug/ml
RT: 7.122 min Scan# 924
Delta R.T. -0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:117 Resp: 36025

Ion	Ratio	Lower	Upper
117	100		
201	109.2	58.6	87.8#
199	67.4	36.9	55.3#

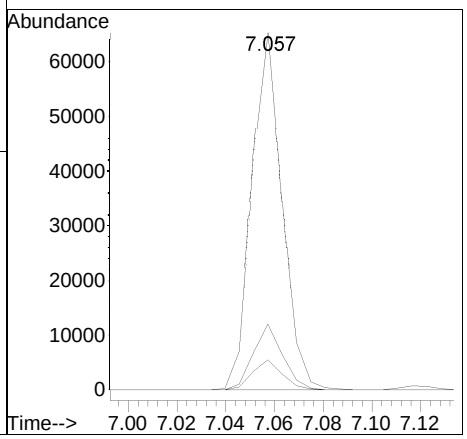


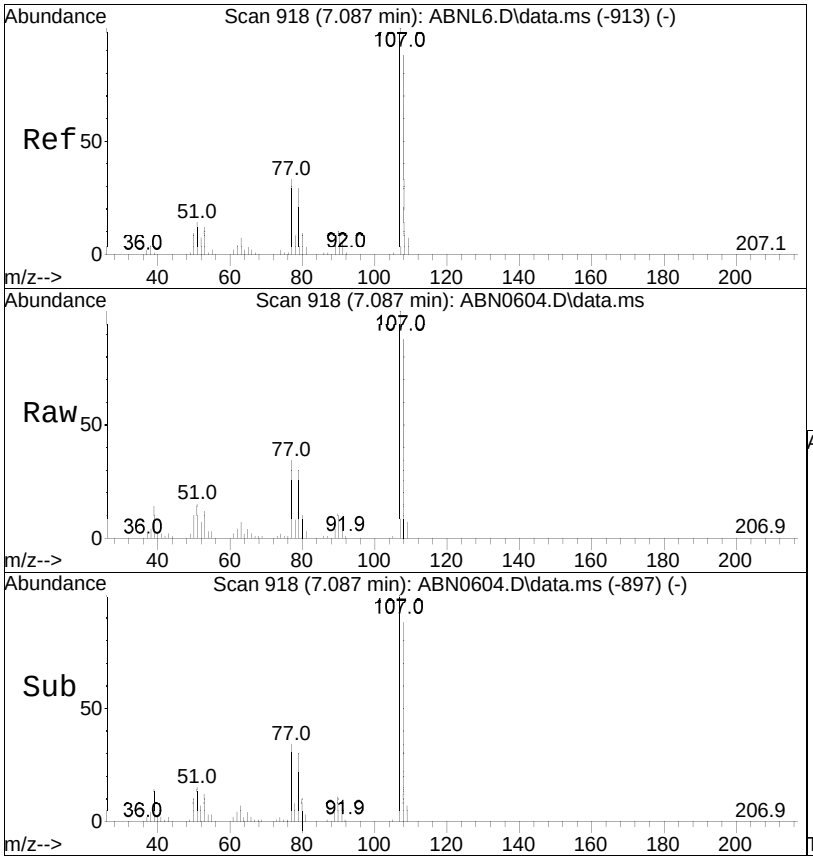


#17
n-Nitrosodi-n-propylamine
Concen: 4.86 ug/ml
RT: 7.057 min Scan# 913
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion: 70 Resp: 56257

Ion	Ratio	Lower	Upper
70	100		
130	17.8	18.2	27.4#
101	8.2	7.8	11.8

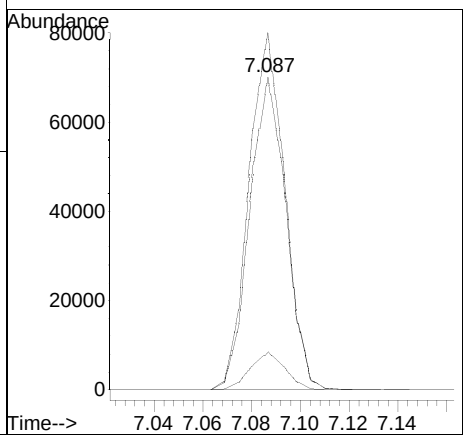


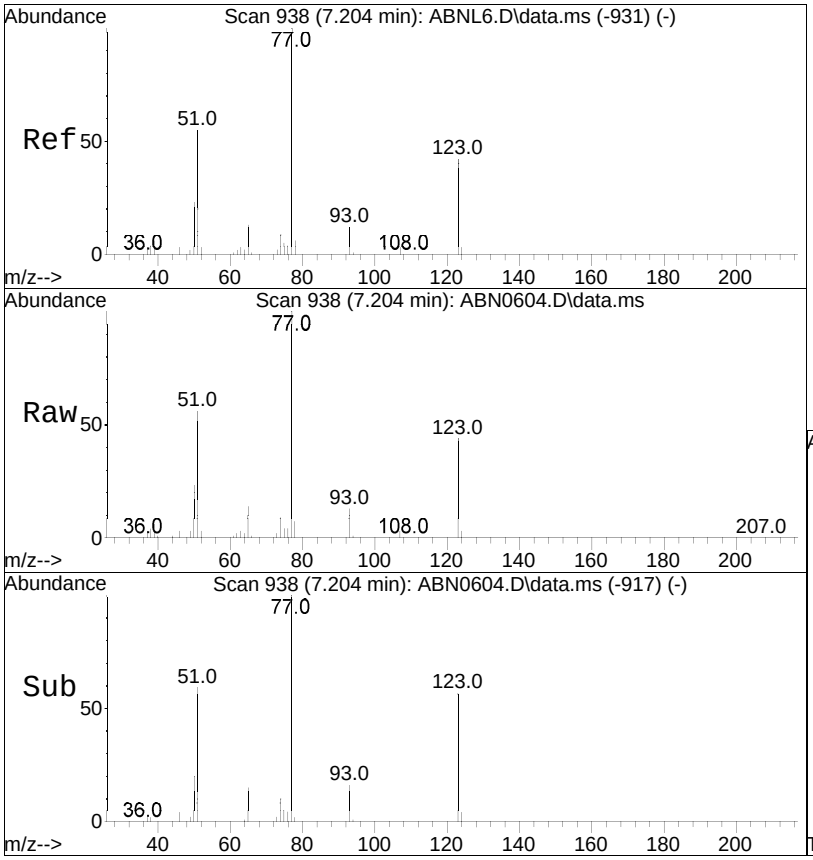


#18
3-Methylphenol/4-Methylphenol
Concen: 5.08 ug/ml
RT: 7.087 min Scan# 918
Delta R.T. -0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:108 Resp: 72442

Ion	Ratio	Lower	Upper
108	100		
107	113.6	88.6	132.8
90	11.7	8.8	13.2

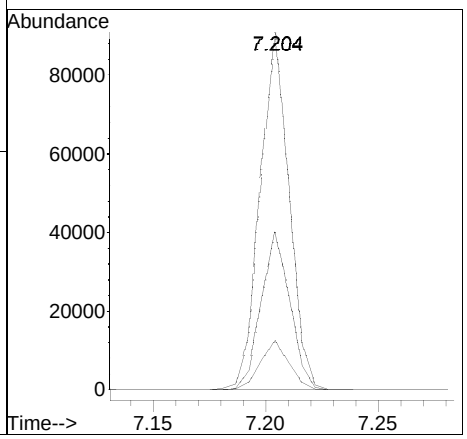


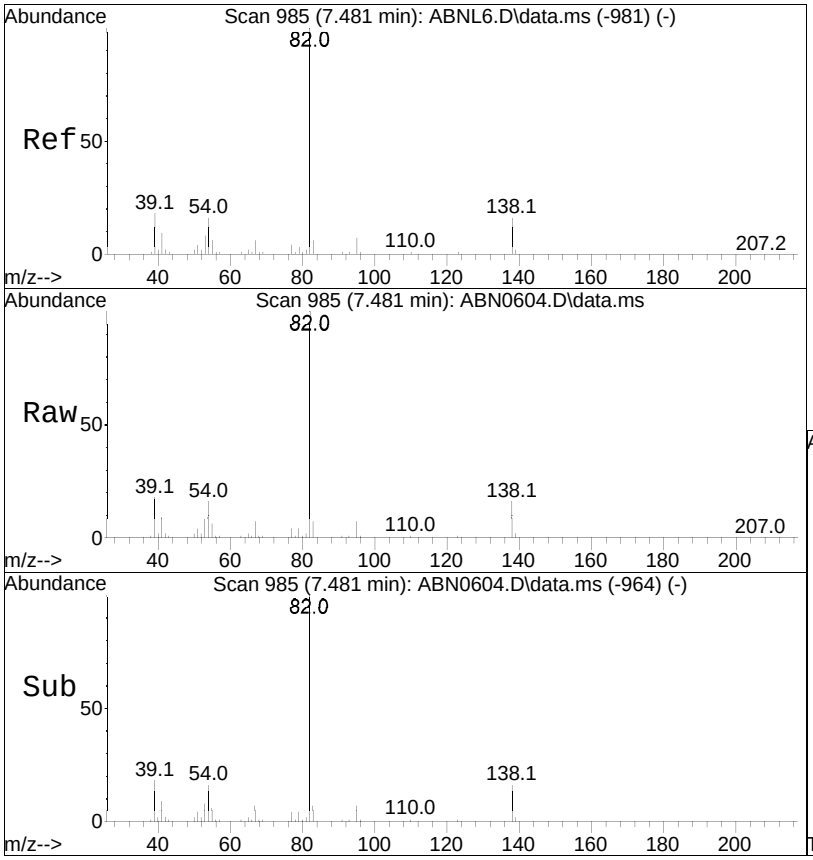


#20
Nitrobenzene
Concen: 5.12 ug/ml
RT: 7.204 min Scan# 938
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion: 77 Resp: 80705

Ion	Ratio	Lower	Upper
77	100		
123	44.0	36.3	54.5
65	13.9	11.6	17.4

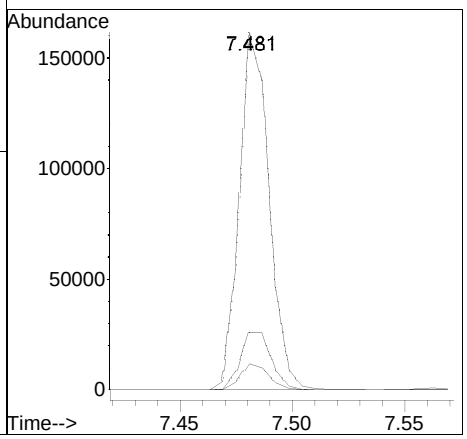


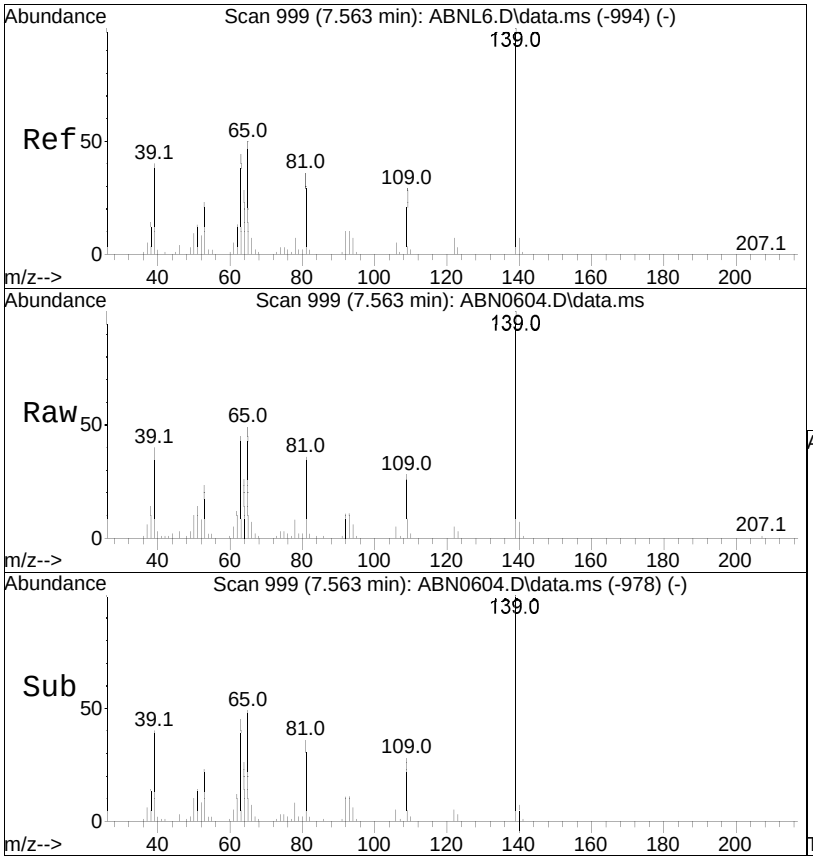


#21
Isophorone
Concen: 4.83 ug/ml
RT: 7.481 min Scan# 985
Delta R.T. -0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion: 82 Resp: 146961

Ion	Ratio	Lower	Upper
82	100		
138	16.9	14.7	22.1
95	7.1	5.2	7.8

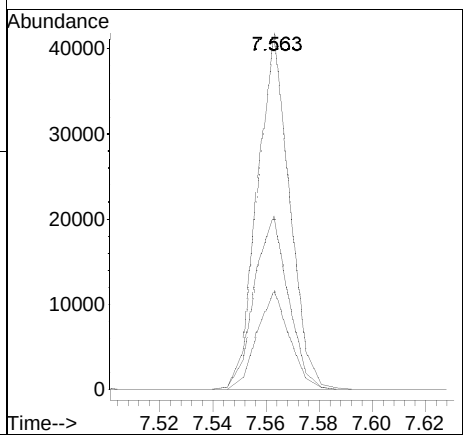


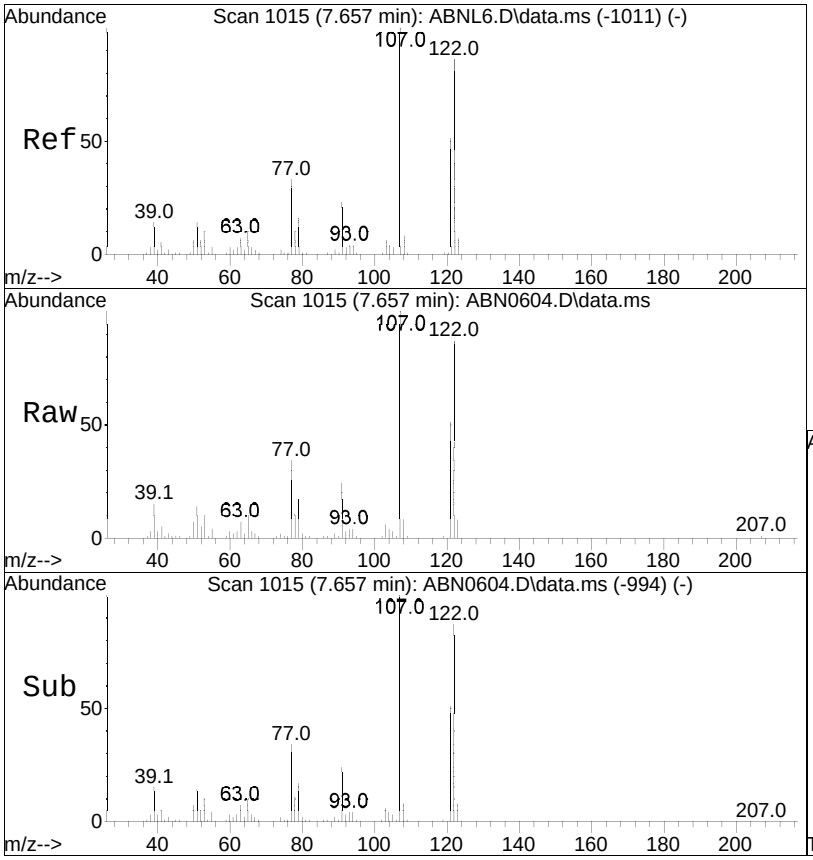


#22
2-Nitrophenol
Concen: 4.98 ug/ml
RT: 7.563 min Scan# 999
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:139 Resp: 34932

Ion	Ratio	Lower	Upper
139	100		
109	28.0	19.4	29.0
65	51.6	46.1	69.1

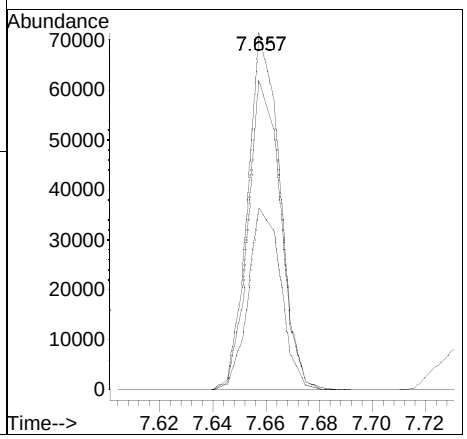


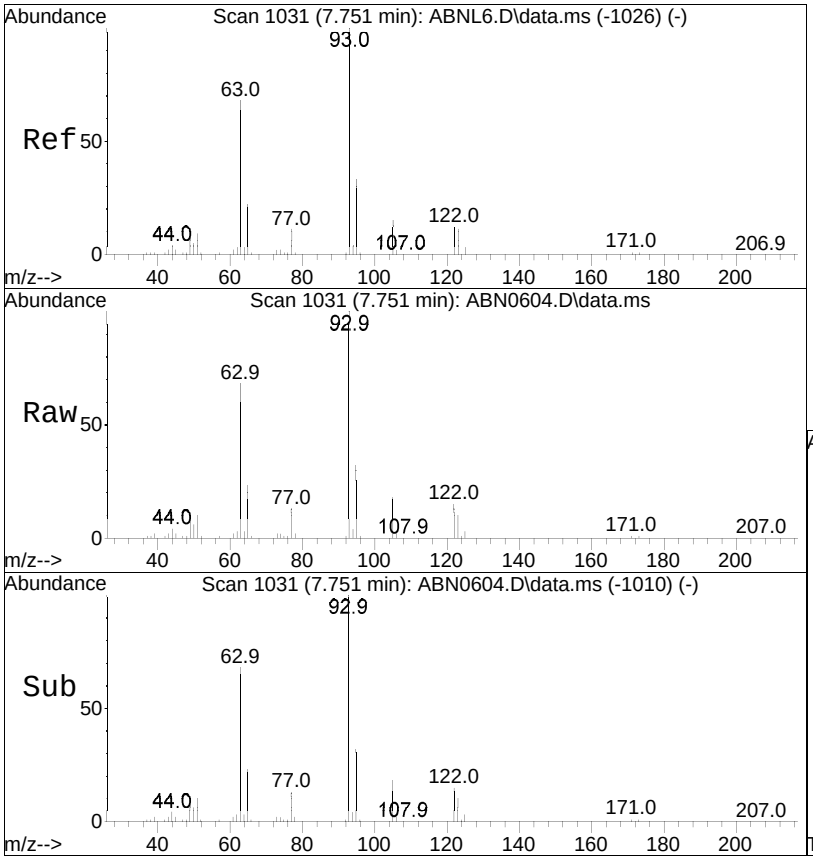


#23
2,4-Dimethylphenol
Concen: 4.19 ug/ml
RT: 7.657 min Scan# 1015
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:107 Resp: 59941

Ion	Ratio	Lower	Upper
107	100		
121	52.1	40.0	60.0
122	87.5	70.2	105.4

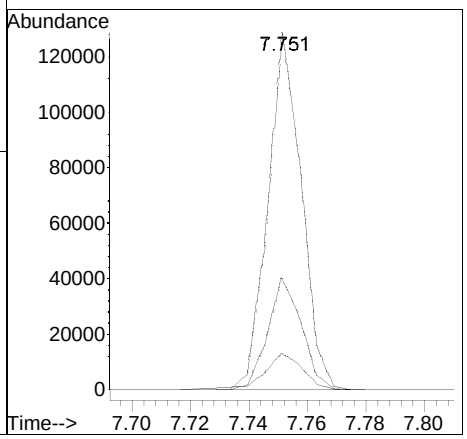


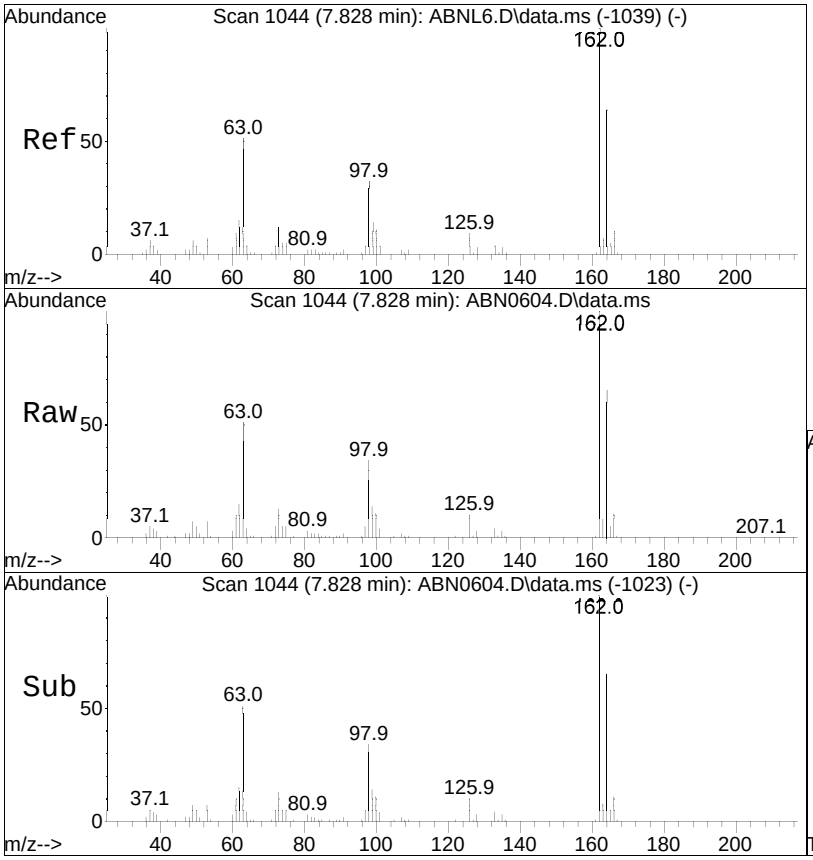


#24
Bis(2-chloroethoxy)methane
Concen: 5.07 ug/ml
RT: 7.751 min Scan# 1031
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion: 93 Resp: 100532

Ion	Ratio	Lower	Upper
93	100		
95	31.9	25.8	38.8
123	11.9	10.1	15.1

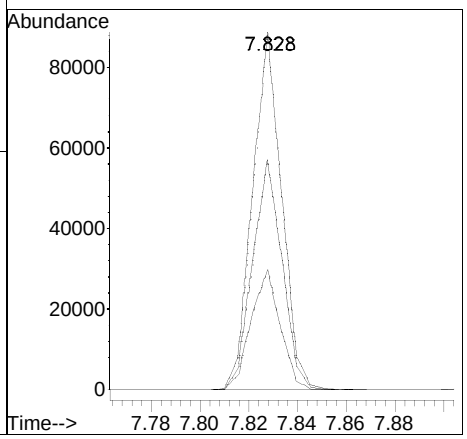


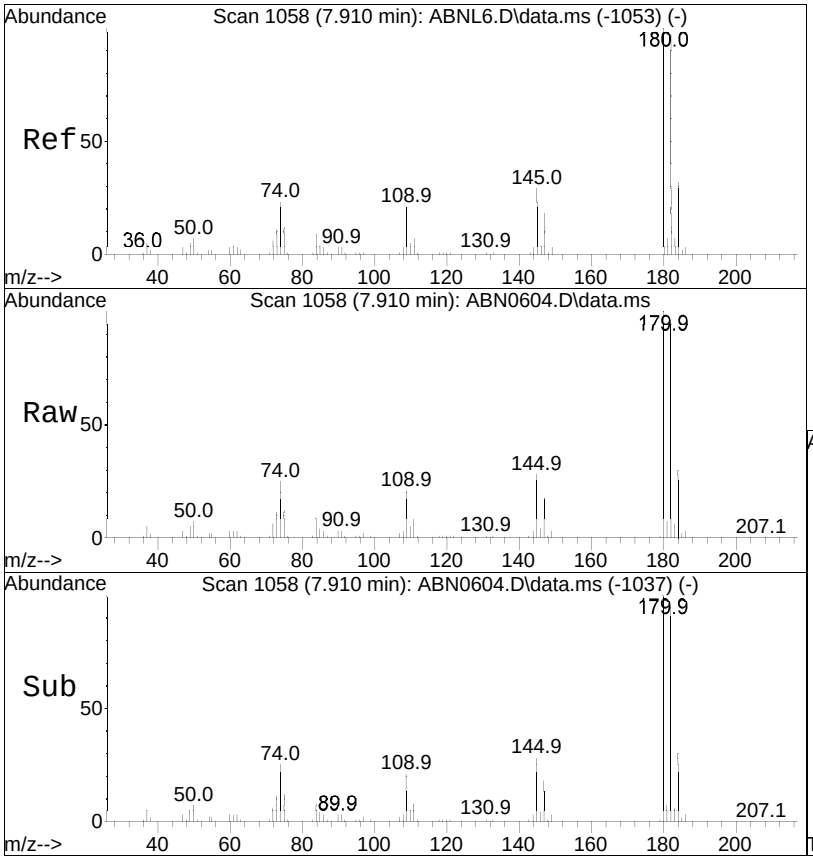


#25
2,4-Dichlorophenol
Concen: 5.04 ug/ml
RT: 7.828 min Scan# 1044
Delta R.T. -0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:162 Resp: 72480

Ion	Ratio	Lower	Upper
162	100		
164	65.6	51.0	76.4
98	34.2	32.2	48.2

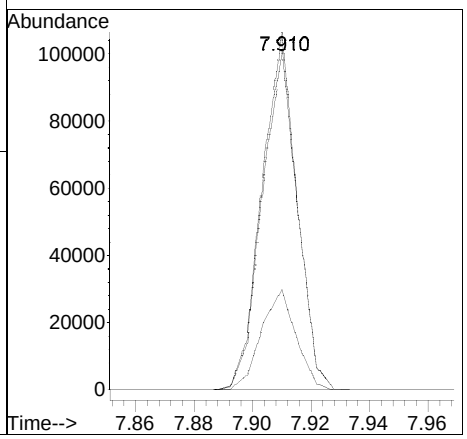


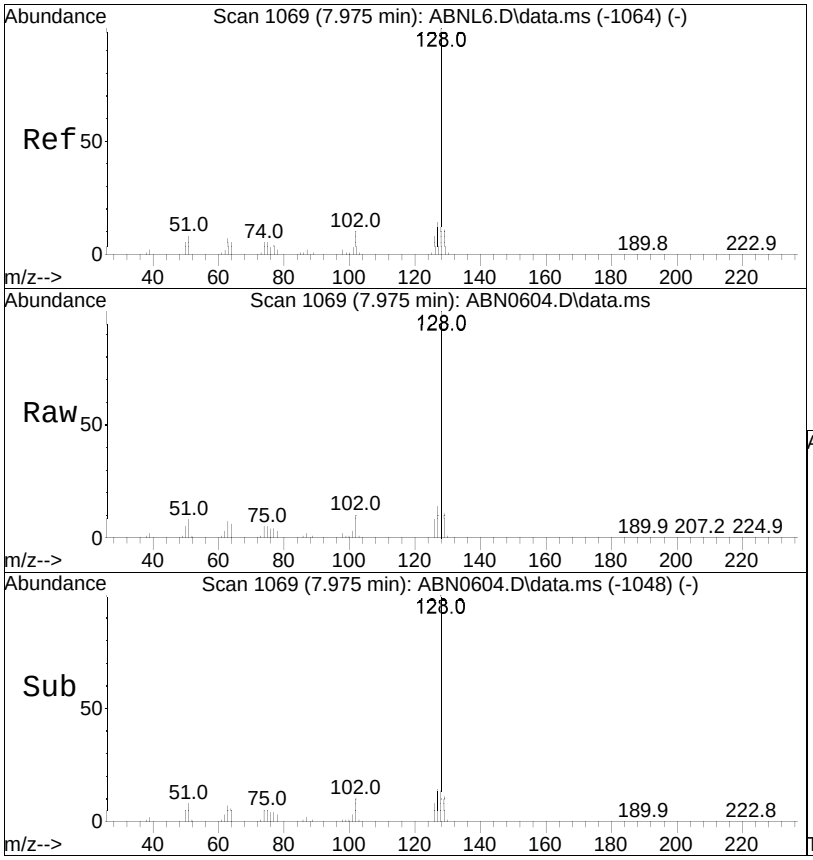


#26
1,2,4-Trichlorobenzene
Concen: 5.04 ug/ml
RT: 7.910 min Scan# 1058
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:180 Resp: 87467

Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.0	114.0
145	28.2	25.7	38.5

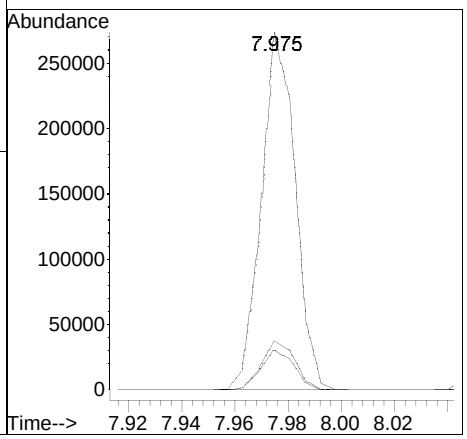


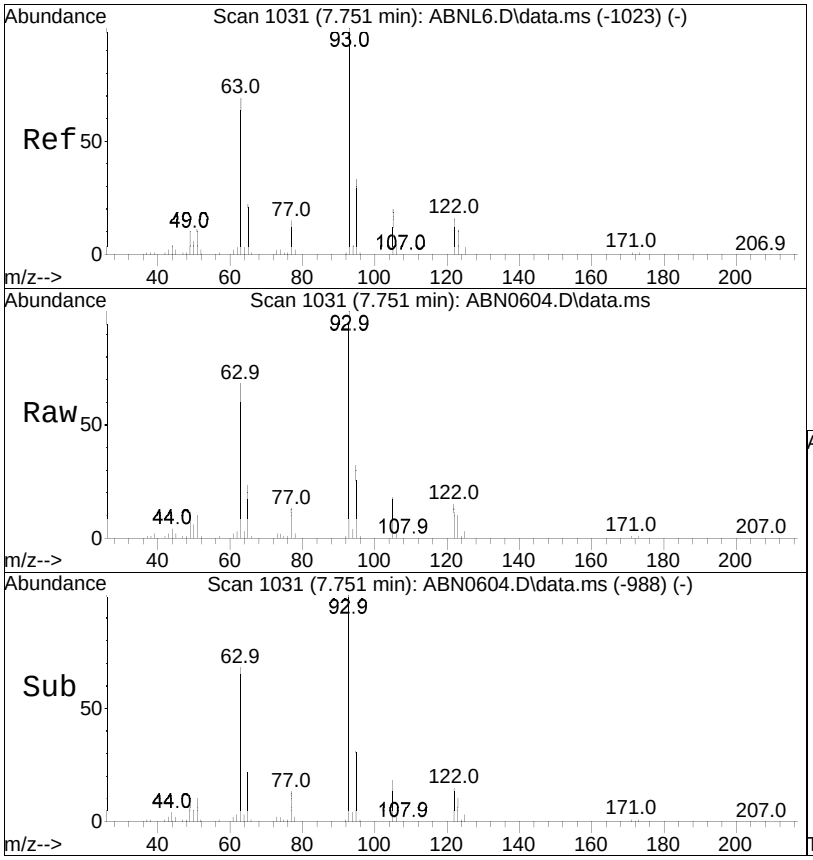


#35
Naphthalene
Concen: 4.86 ug/ml
RT: 7.975 min Scan# 1069
Delta R.T. -0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:128 Resp: 238902

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.7	13.1
127	13.6	10.3	15.5

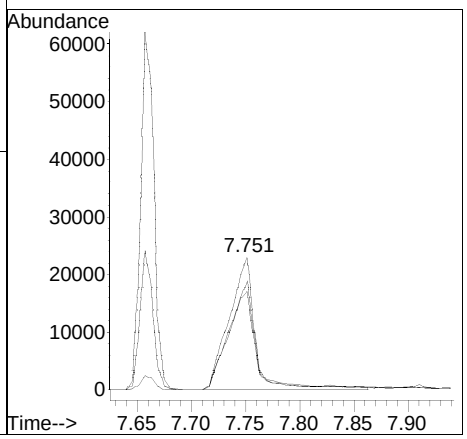


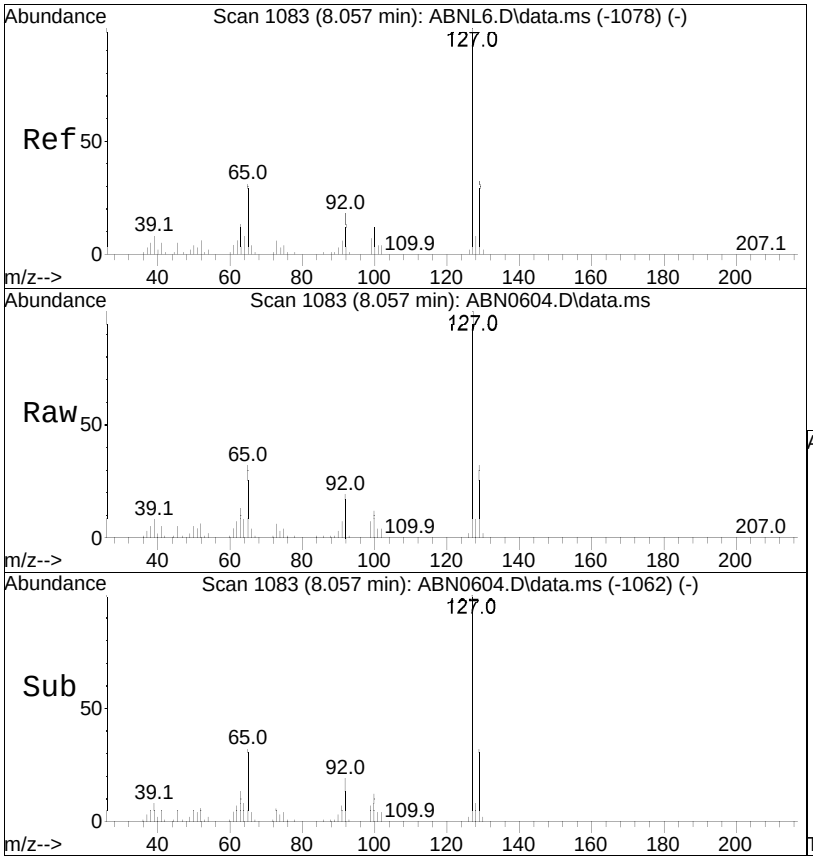


#36
Benzoic Acid
Concen: 4.66 ug/ml
RT: 7.751 min Scan# 1031
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:105 Resp: 39484

Ion	Ratio	Lower	Upper
105	100		
122	81.8	59.9	89.9
77	75.7	60.1	90.1

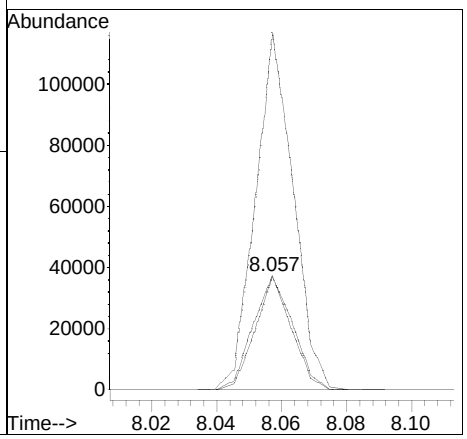


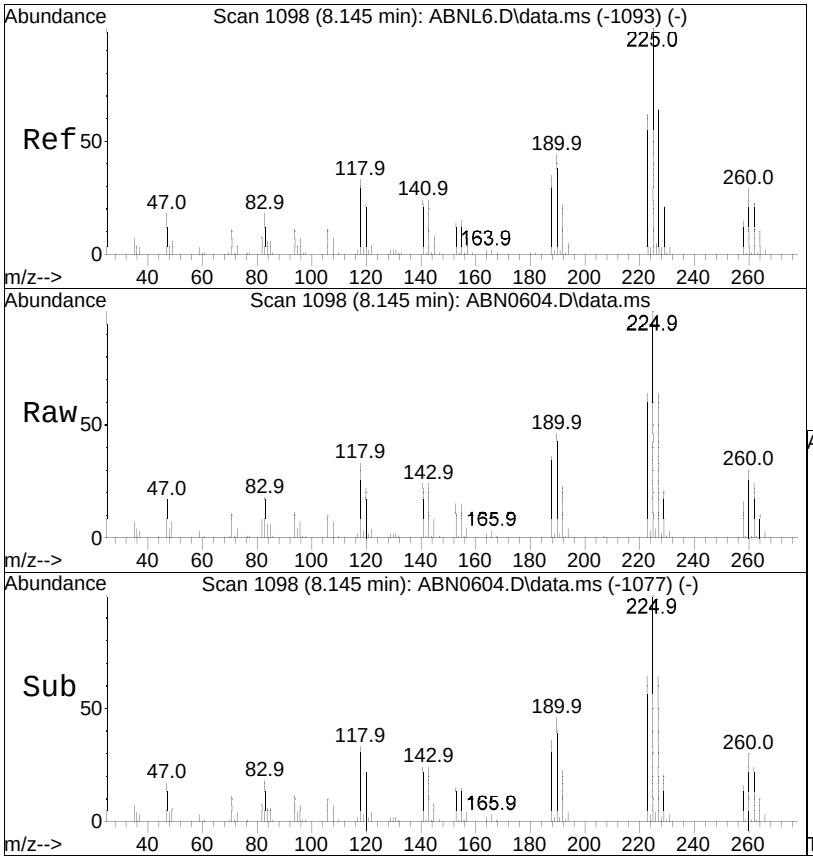


#37
4-Chloroaniline
Concen: 4.87 ug/ml
RT: 8.057 min Scan# 1083
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion: 65 Resp: 30225

Ion	Ratio	Lower	Upper
65	100		
127	309.7	237.6	356.4
129	98.4	76.3	114.5

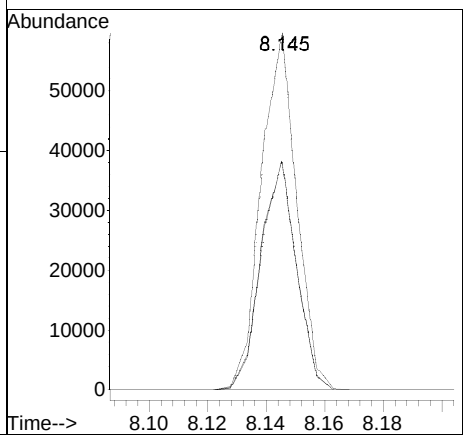


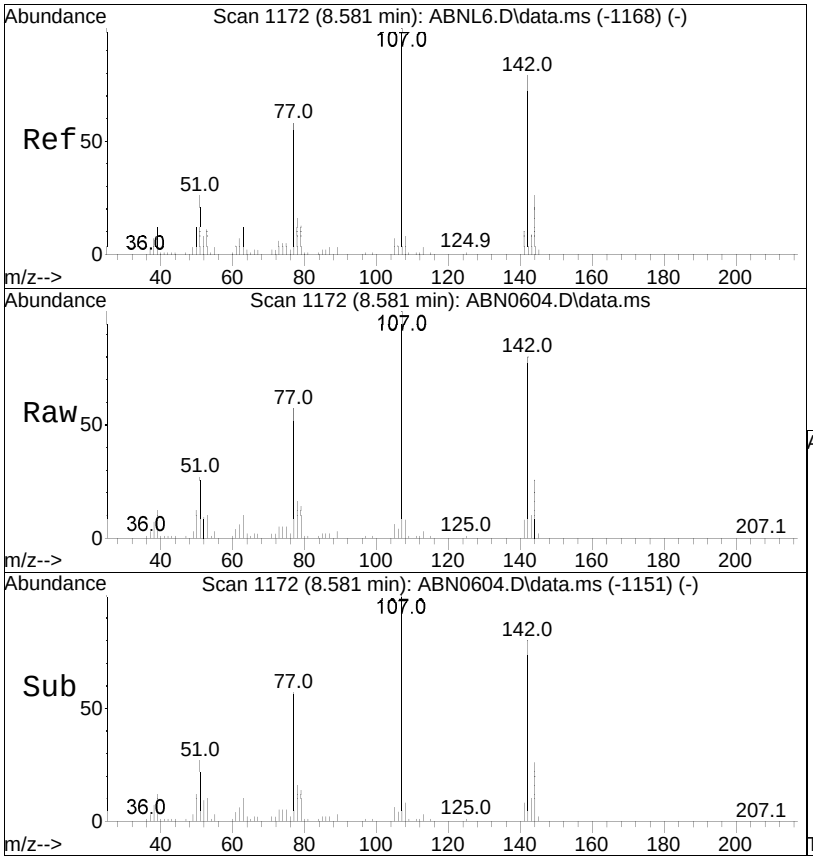


#38
Hexachlorobutadiene
Concen: 4.79 ug/ml
RT: 8.145 min Scan# 1098
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:225 Resp: 49889

Ion	Ratio	Lower	Upper
225	100		
223	64.6	50.3	75.5
227	64.2	52.2	78.2

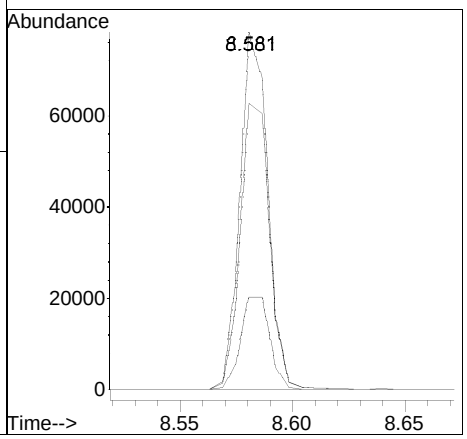


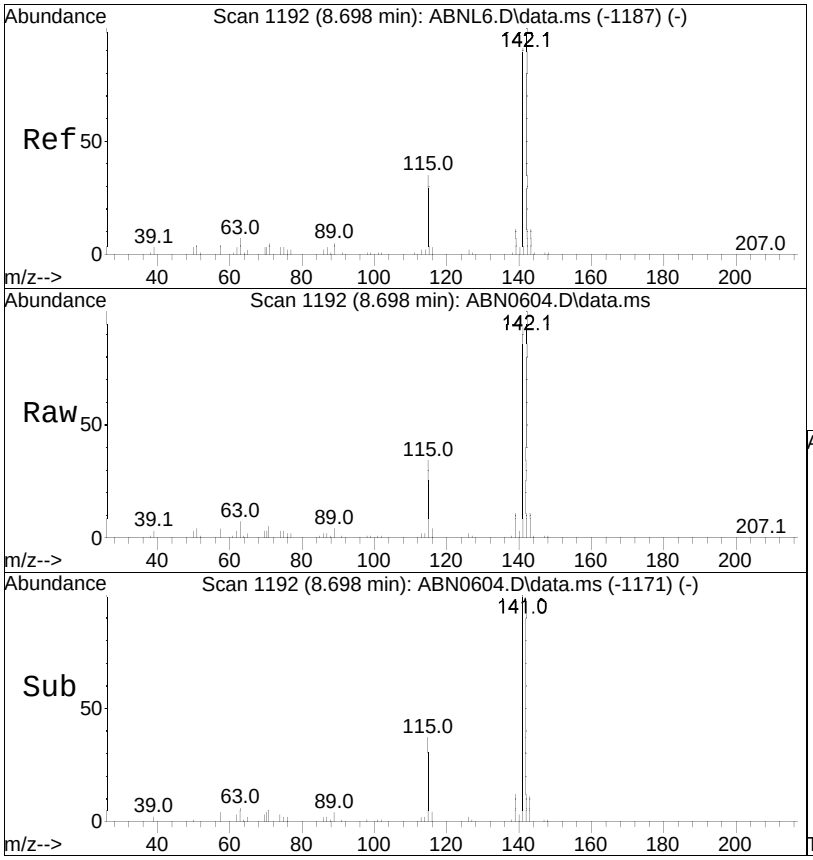


#39
p-Chloro-m-cresol
Concen: 4.96 ug/ml
RT: 8.581 min Scan# 1172
Delta R.T. -0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:107 Resp: 66784

Ion	Ratio	Lower	Upper
107	100		
144	27.6	20.9	31.3
142	84.1	66.1	99.1

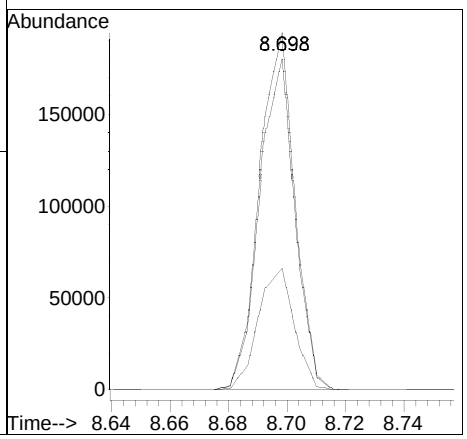


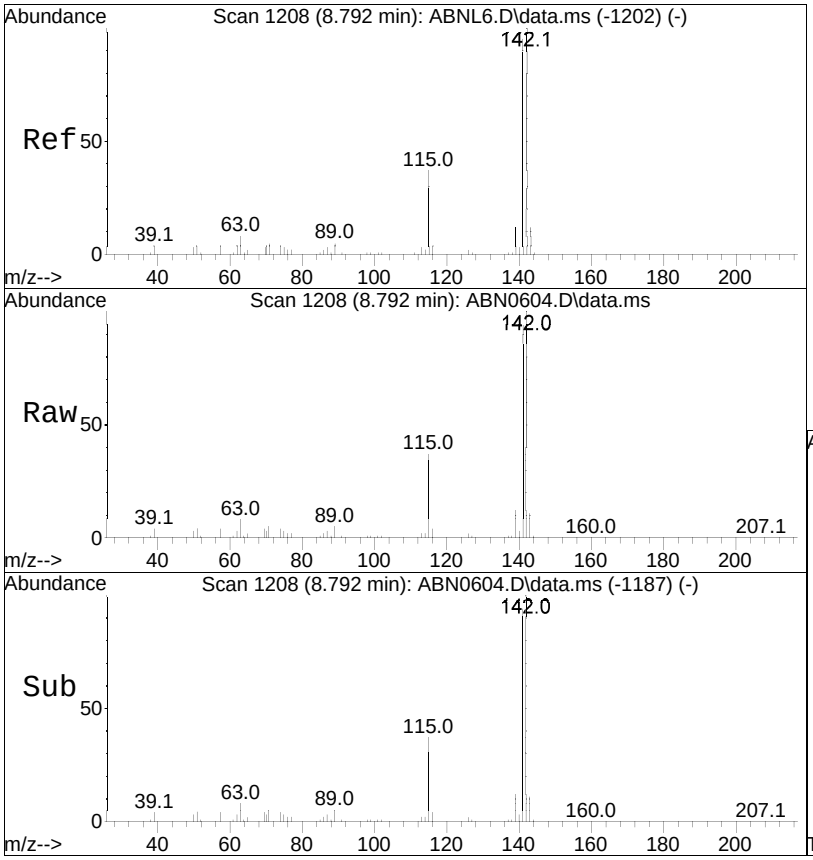


#40
2-Methylnaphthalene
Concen: 4.82 ug/ml
RT: 8.698 min Scan# 1192
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:142 Resp: 163844

Ion	Ratio	Lower	Upper
142	100		
141	92.2	69.6	104.4
115	34.8	26.6	40.0

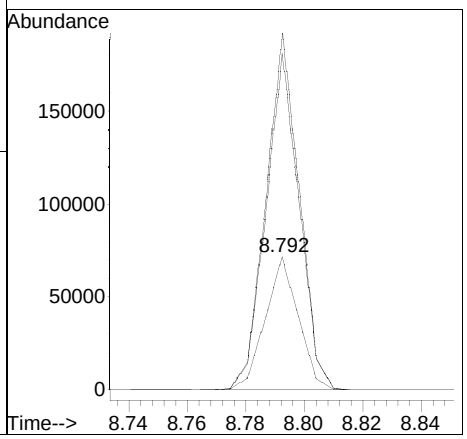


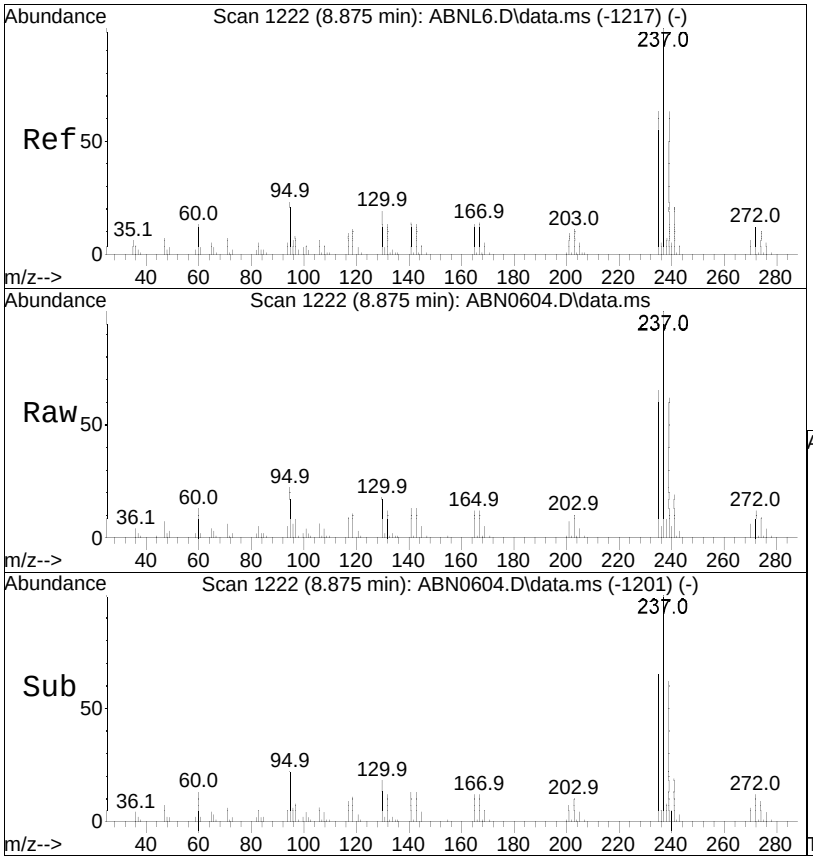


#41
1-Methylnaphthalene
Concen: 4.86 ug/ml
RT: 8.792 min Scan# 1208
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:115 Resp: 56372

Ion	Ratio	Lower	Upper
115	100		
141	252.8	207.8	311.6
142	268.8	226.8	340.2

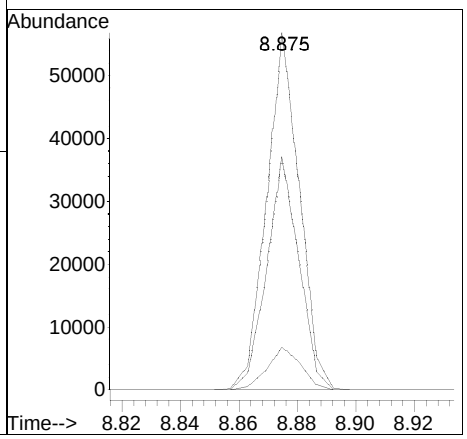


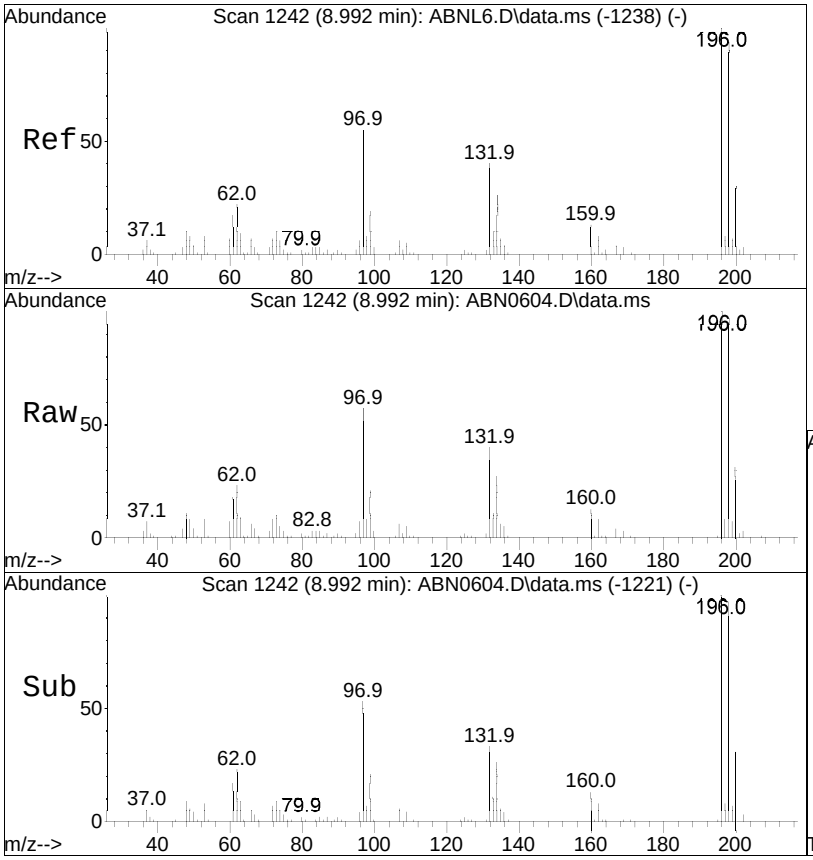


#42
Hexachlorocyclopentadiene
Concen: 4.34 ug/ml
RT: 8.875 min Scan# 1222
Delta R.T. -0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:237 Resp: 43983

Ion	Ratio	Lower	Upper
237	100		
235	64.1	49.7	74.5
272	12.3	9.8	14.6

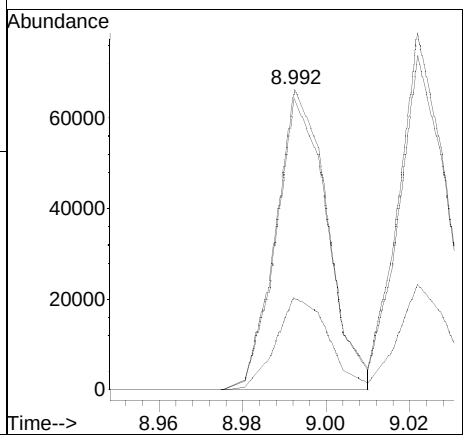


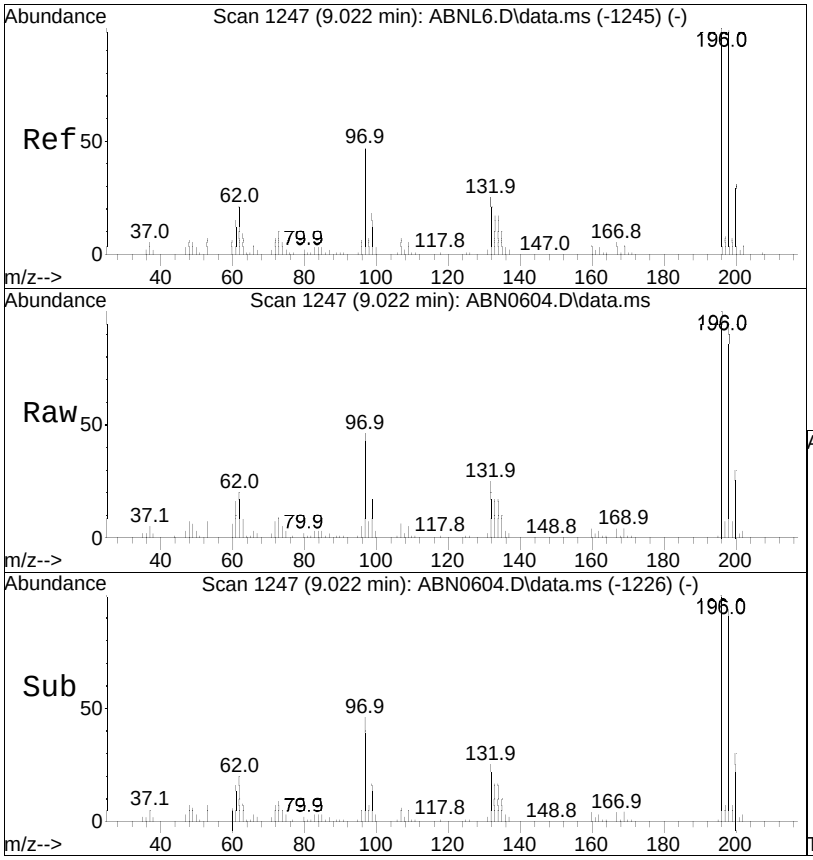


#43
2,4,6-Trichlorophenol
Concen: 4.93 ug/ml
RT: 8.992 min Scan# 1242
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:196 Resp: 57639

Ion	Ratio	Lower	Upper
196	100		
198	95.8	77.5	116.3
200	31.3	23.8	35.6

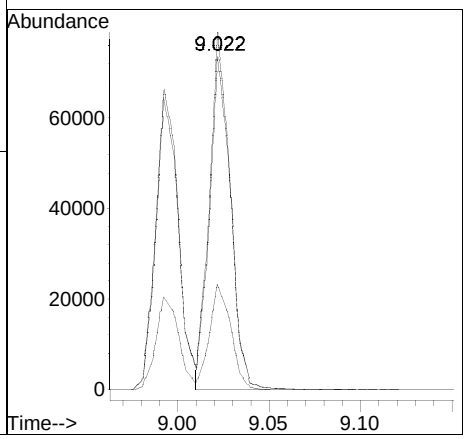


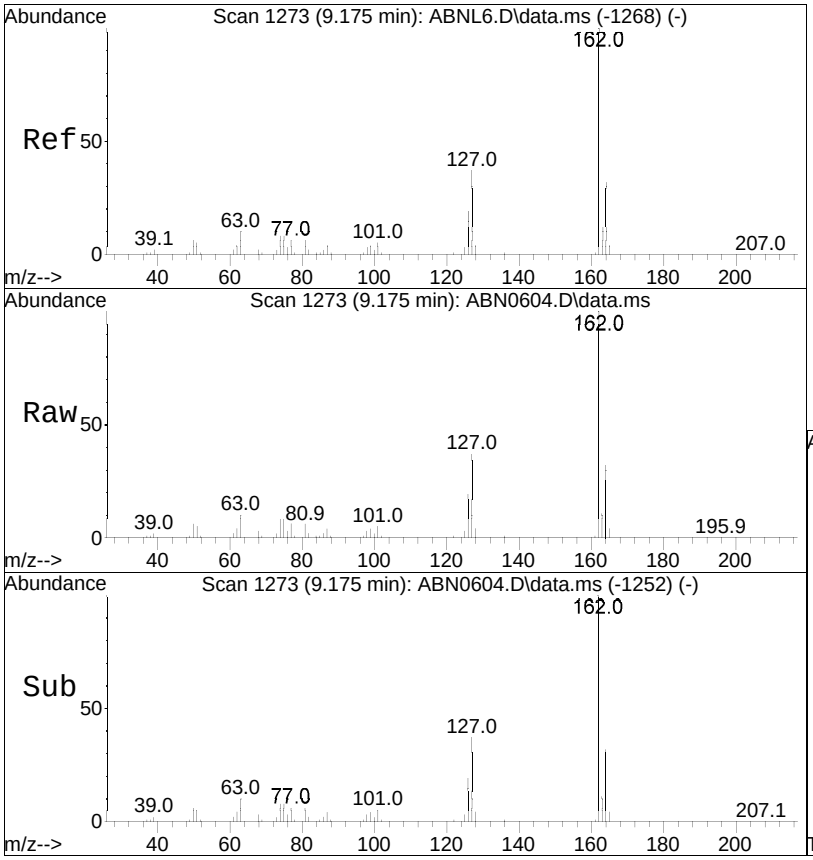


#44
2,4,5-Trichlorophenol
Concen: 5.04 ug/ml
RT: 9.022 min Scan# 1247
Delta R.T. -0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:196 Resp: 62531

Ion	Ratio	Lower	Upper
196	100		
200	30.2	25.4	38.0
198	94.7	78.0	117.0

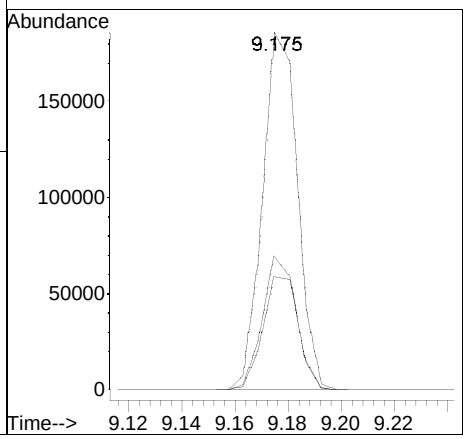


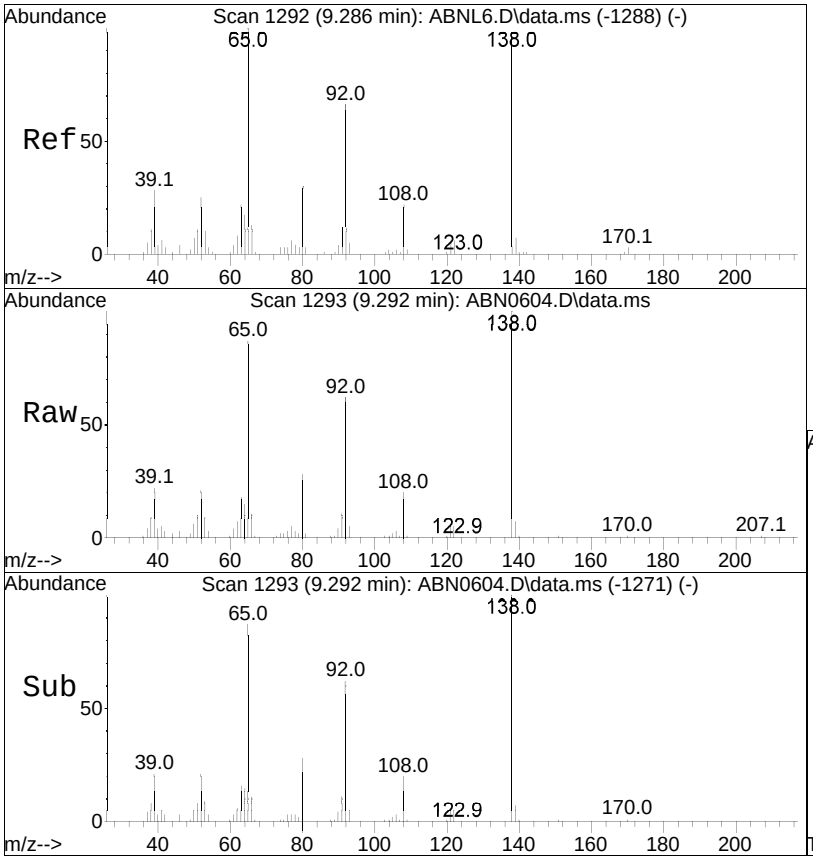


#46
2-Chloronaphthalene
Concen: 4.76 ug/ml
RT: 9.175 min Scan# 1273
Delta R.T. -0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:162 Resp: 168235

Ion	Ratio	Lower	Upper
162	100		
127	36.2	32.2	48.4
164	32.6	25.7	38.5

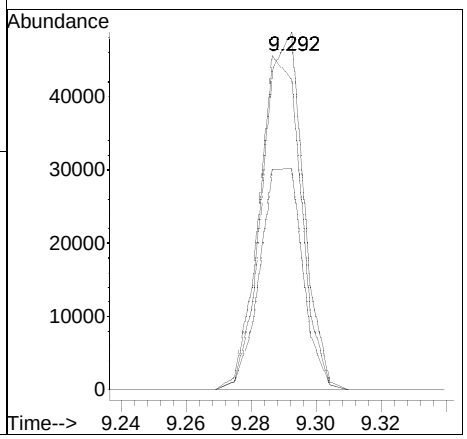


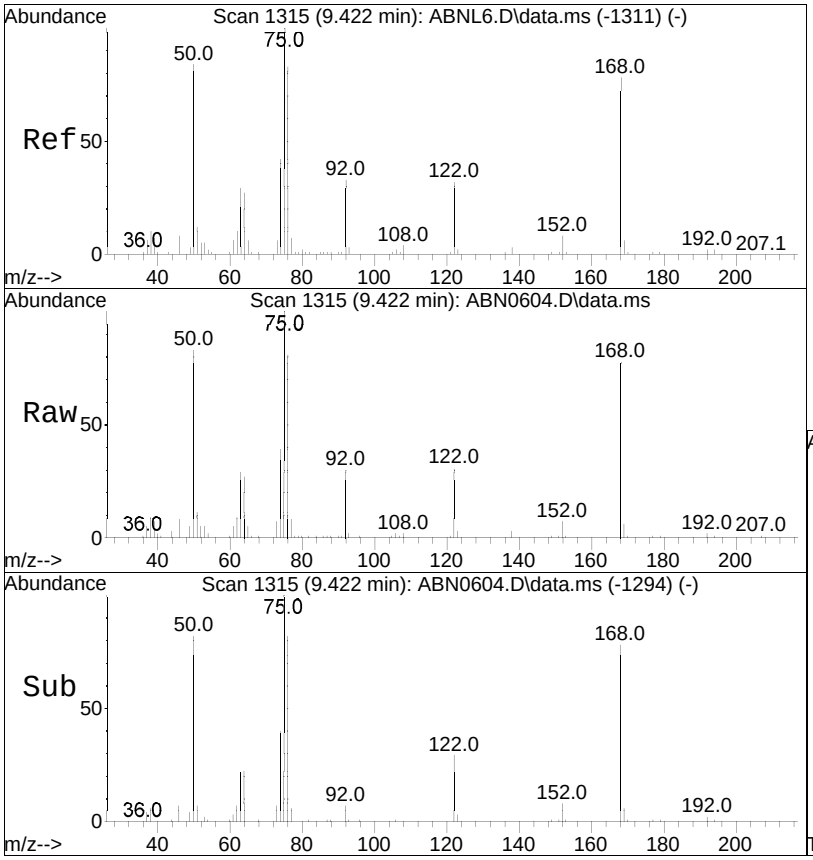


#47
2-Nitroaniline
Concen: 4.94 ug/ml
RT: 9.292 min Scan# 1293
Delta R.T. 0.006 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:138 Resp: 42252

Ion	Ratio	Lower	Upper
138	100		
92	65.2	53.5	80.3
65	95.9	86.3	129.5

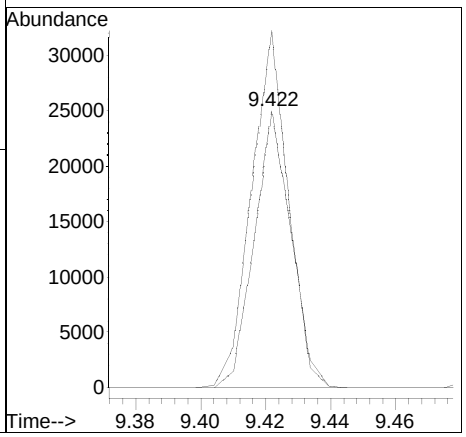


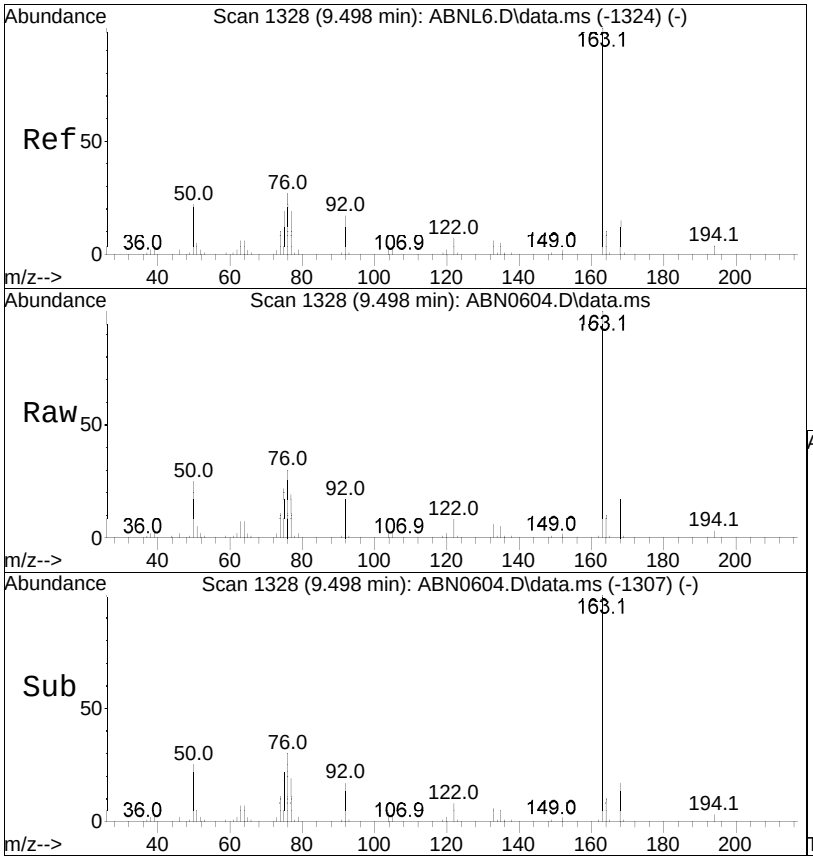


#48
1,4-Dinitrobenzene
Concen: 4.57 ug/ml
RT: 9.422 min Scan# 1315
Delta R.T. -0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:168 Resp: 19649

Ion	Ratio	Lower	Upper
168	100		
75	128.9	121.8	182.8

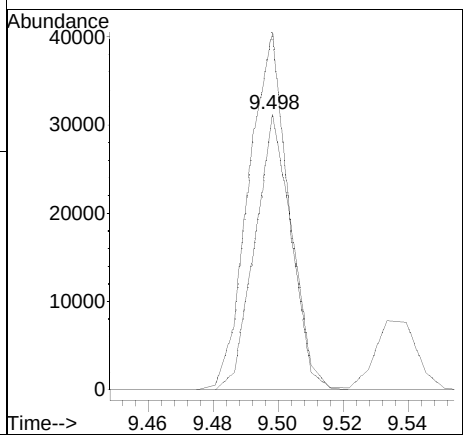


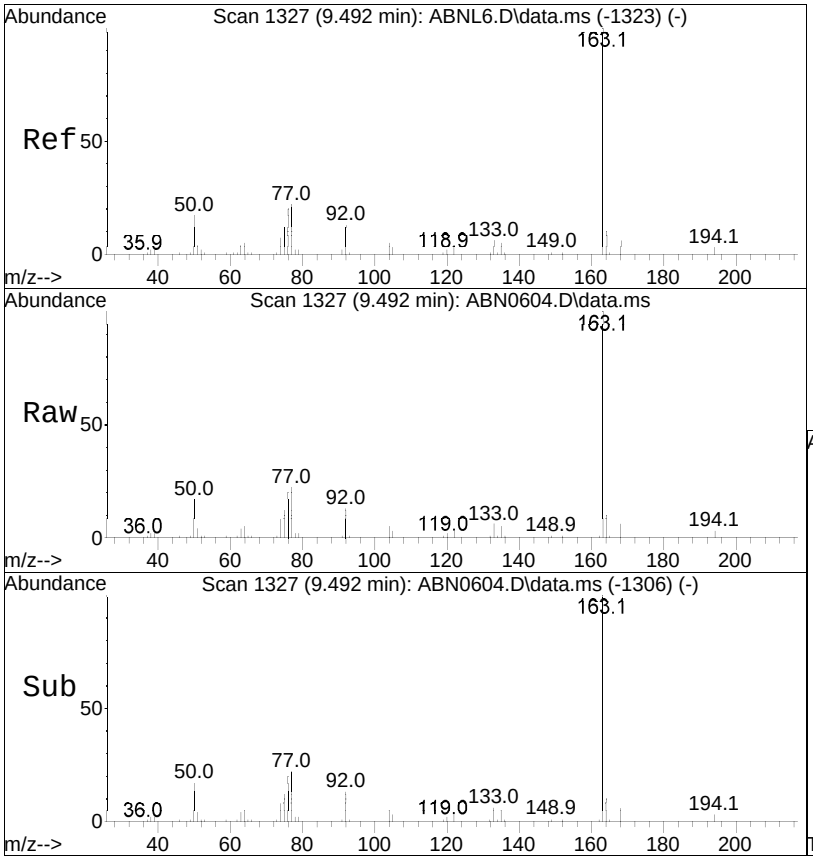


#49
1,3-Dinitrobenzene
Concen: 4.57 ug/ml
RT: 9.498 min Scan# 1328
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:168 Resp: 24527

Ion	Ratio	Lower	Upper
168	100		
75	138.5	22.7	34.1#

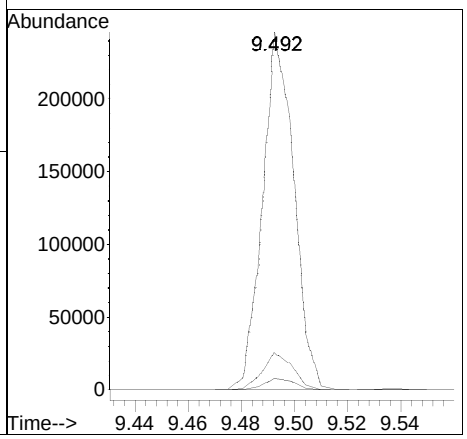


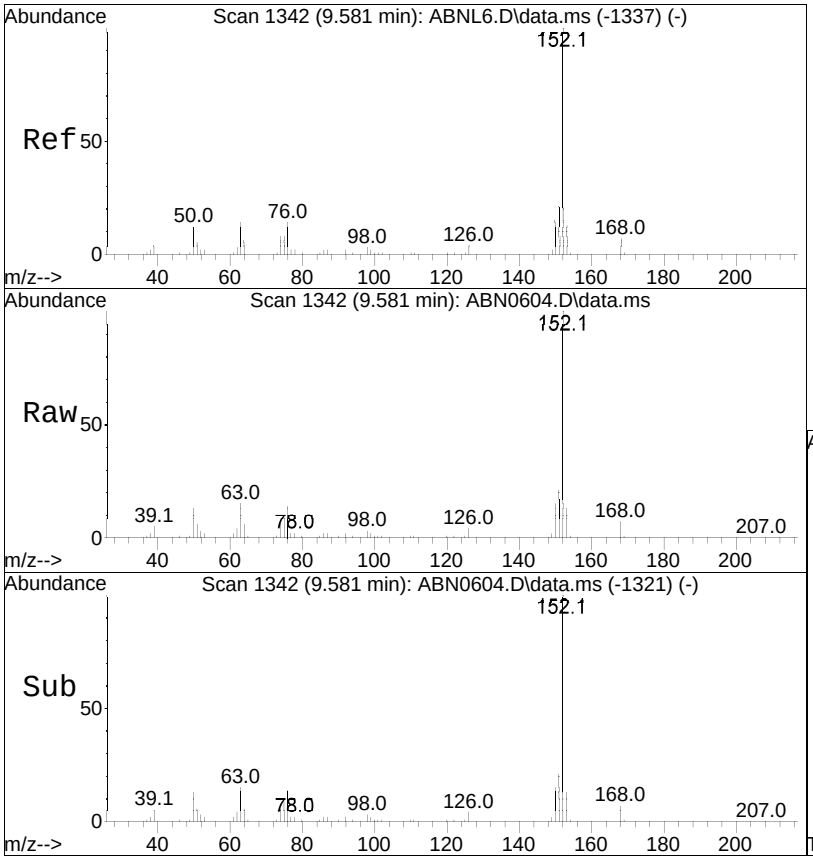


#50
Dimethyl phthalate
Concen: 4.80 ug/ml
RT: 9.492 min Scan# 1327
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:163 Resp: 198759

Ion	Ratio	Lower	Upper
163	100		
194	3.2	3.5	5.3#
164	10.3	7.9	11.9

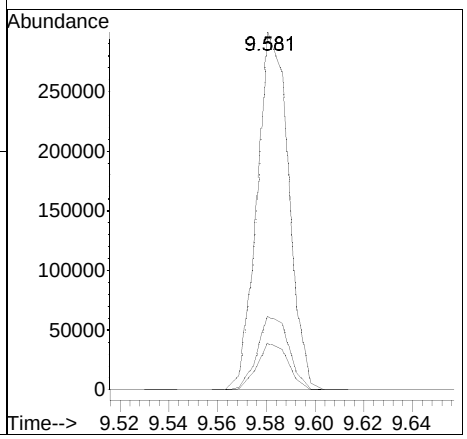


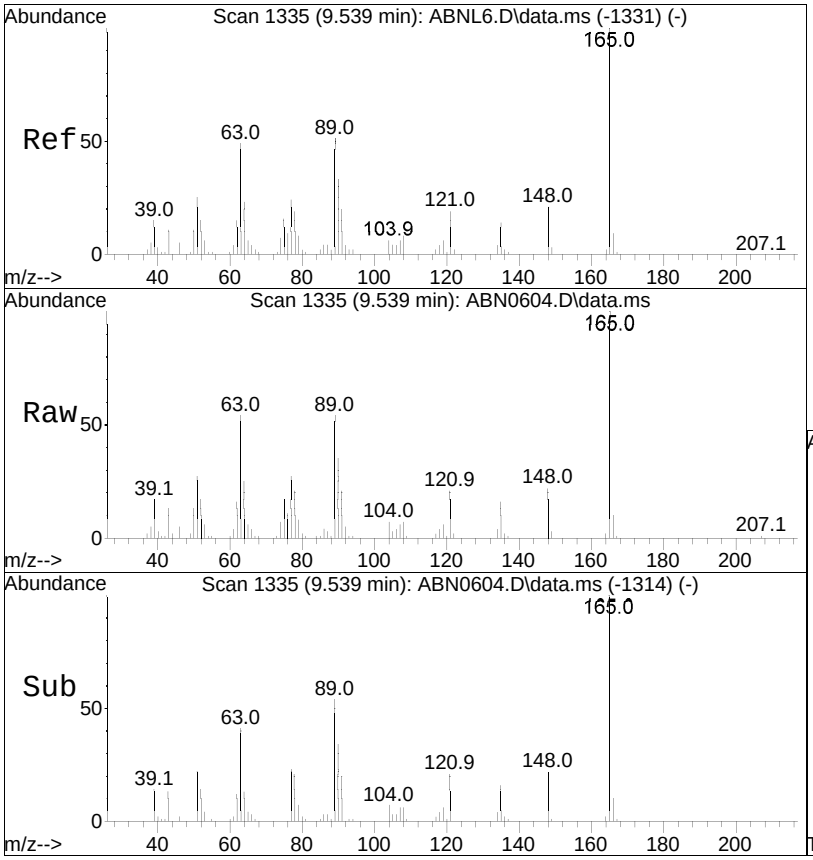


#51
Acenaphthylene
Concen: 5.02 ug/ml
RT: 9.581 min Scan# 1342
Delta R.T. -0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:152 Resp: 267558

Ion	Ratio	Lower	Upper
152	100		
151	20.7	15.8	23.6
153	13.0	10.5	15.7

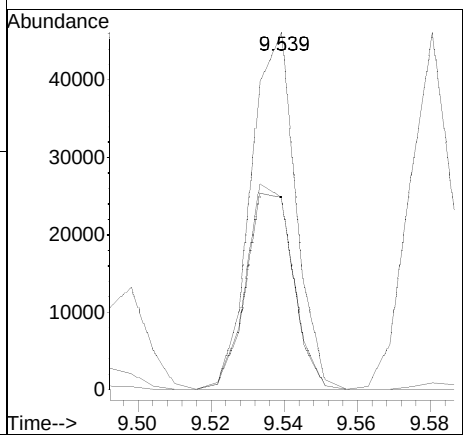


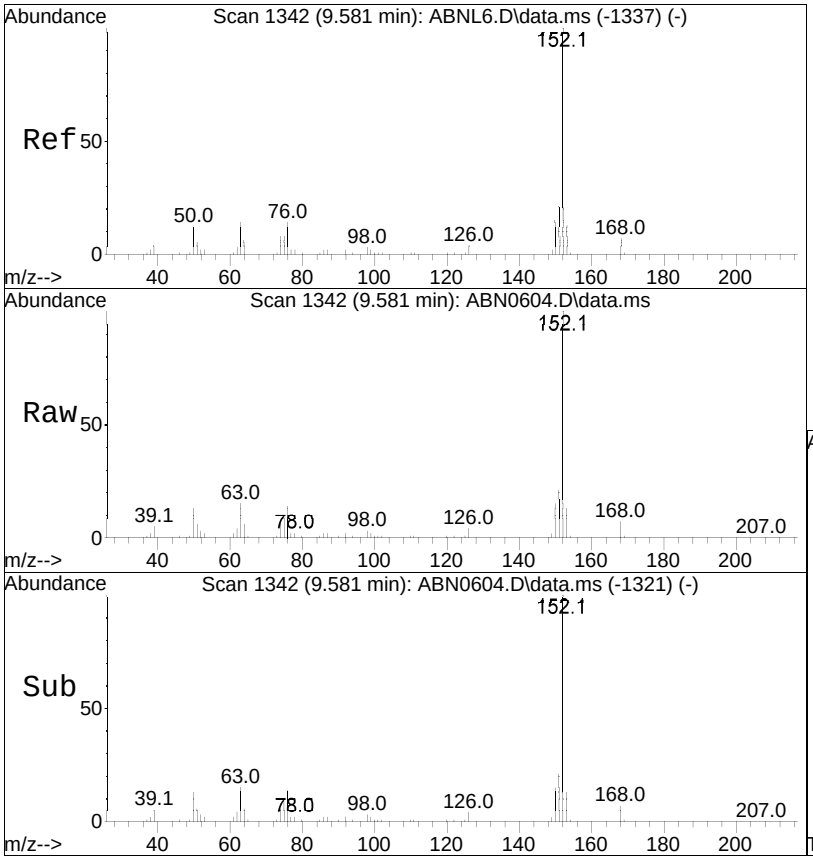


#52
2,6-Dinitrotoluene
Concen: 5.22 ug/ml
RT: 9.539 min Scan# 1335
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:165 Resp: 39342

Ion	Ratio	Lower	Upper
165	100		
89	58.4	54.2	81.2
63	59.7	64.2	96.2#

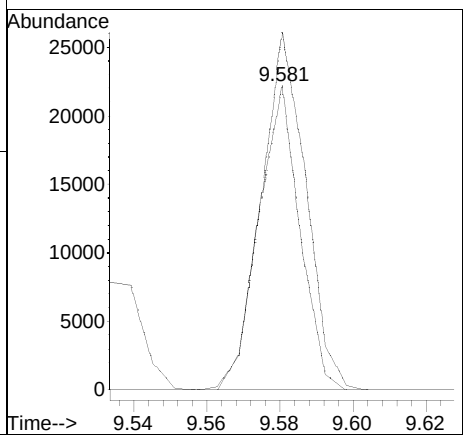


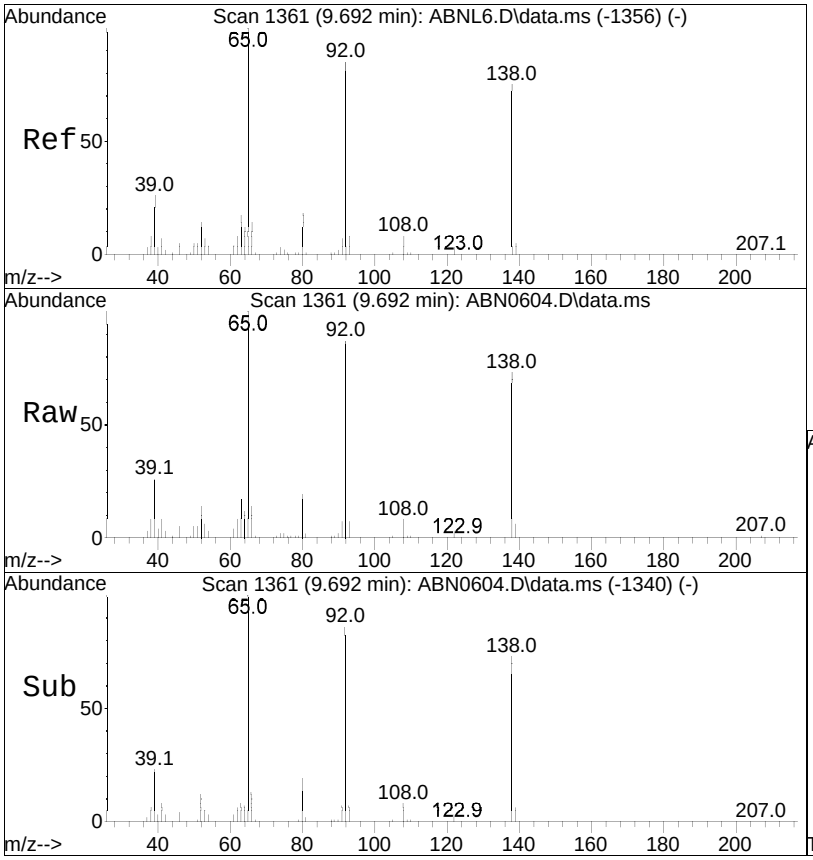


#53
1,2-Dinitrobenzene
Concen: 5.13 ug/ml
RT: 9.581 min Scan# 1342
Delta R.T. -0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:168 Resp: 17292

Ion	Ratio	Lower	Upper
168	100		
75	127.1	30.9	46.3#

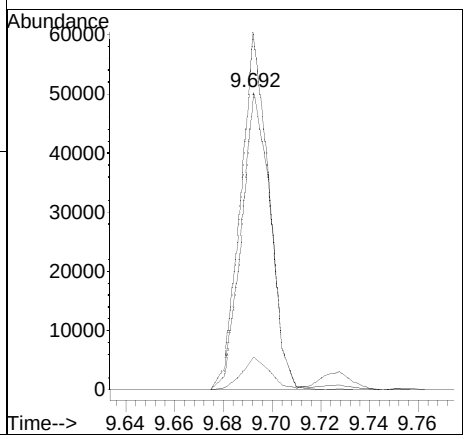


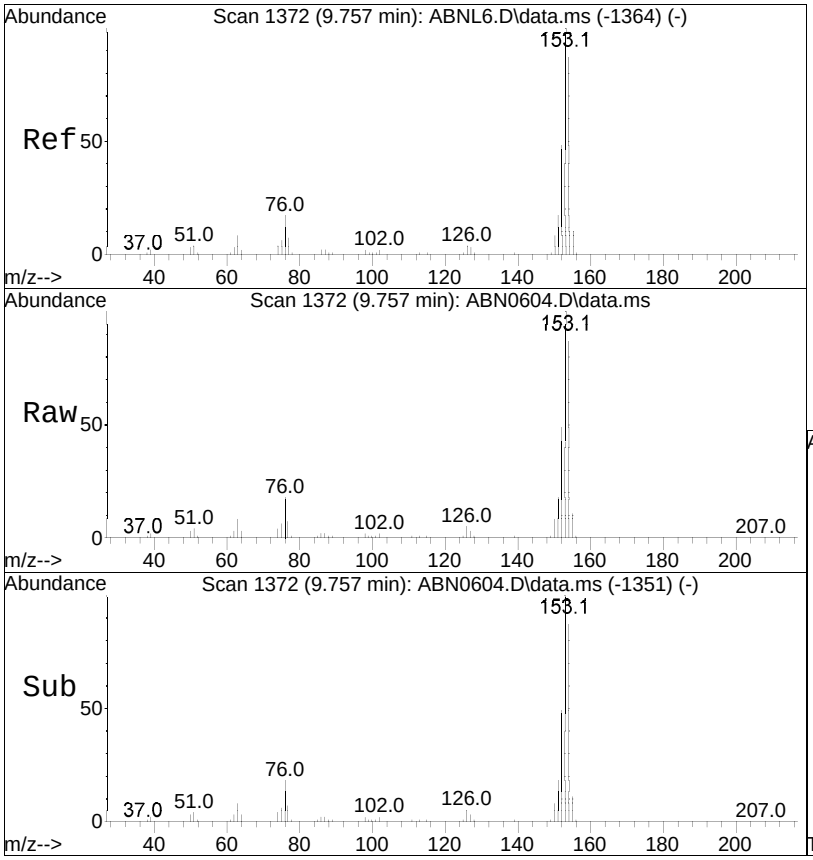


#63
3-Nitroaniline
Concen: 5.19 ug/ml
RT: 9.692 min Scan# 1361
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:138 Resp: 41365

Ion	Ratio	Lower	Upper
138	100		
92	116.6	93.4	140.2
108	10.7	9.5	14.3

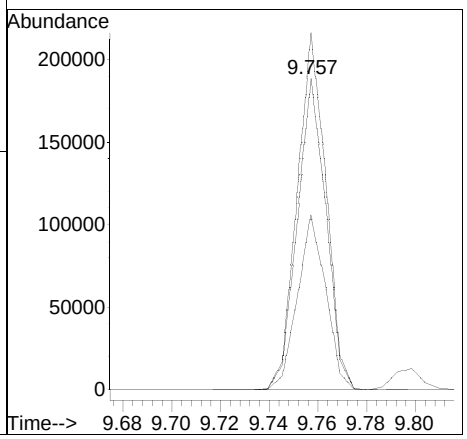


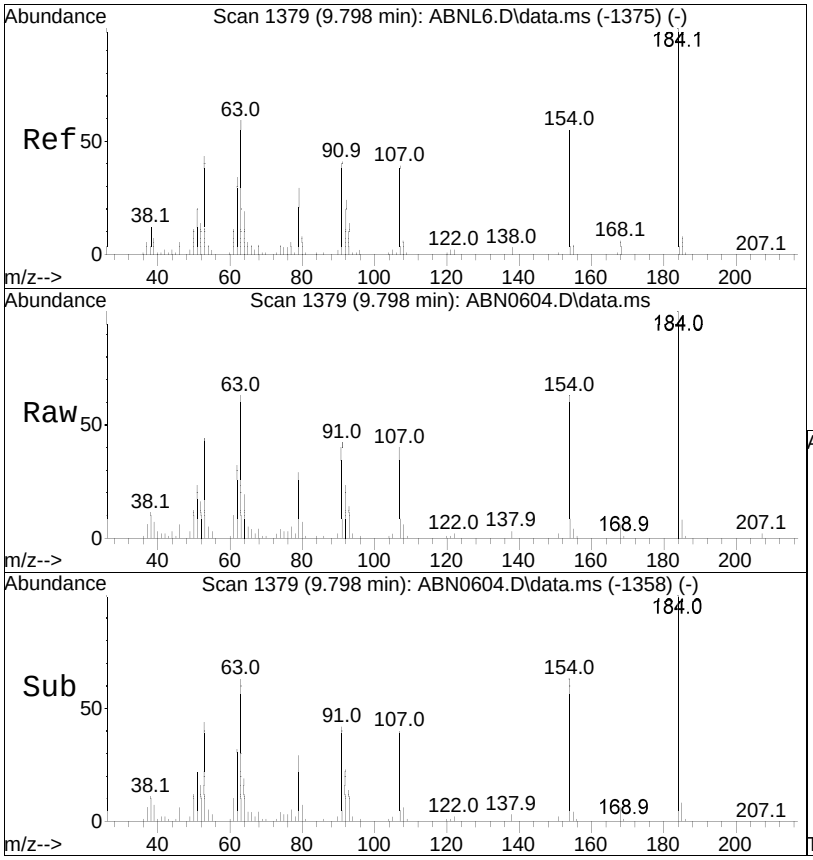


#64
Acenaphthene
Concen: 4.64 ug/ml
RT: 9.757 min Scan# 1372
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:154 Resp: 154031

Ion	Ratio	Lower	Upper
154	100		
153	114.8	85.3	127.9
152	55.6	41.4	62.0

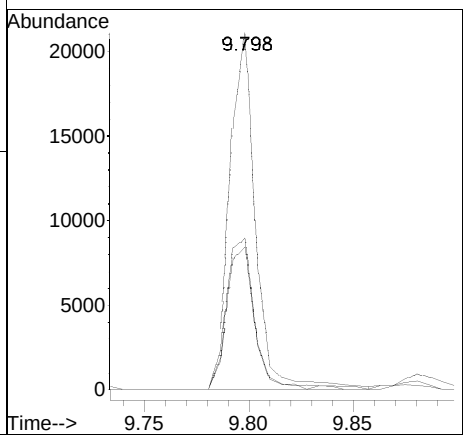


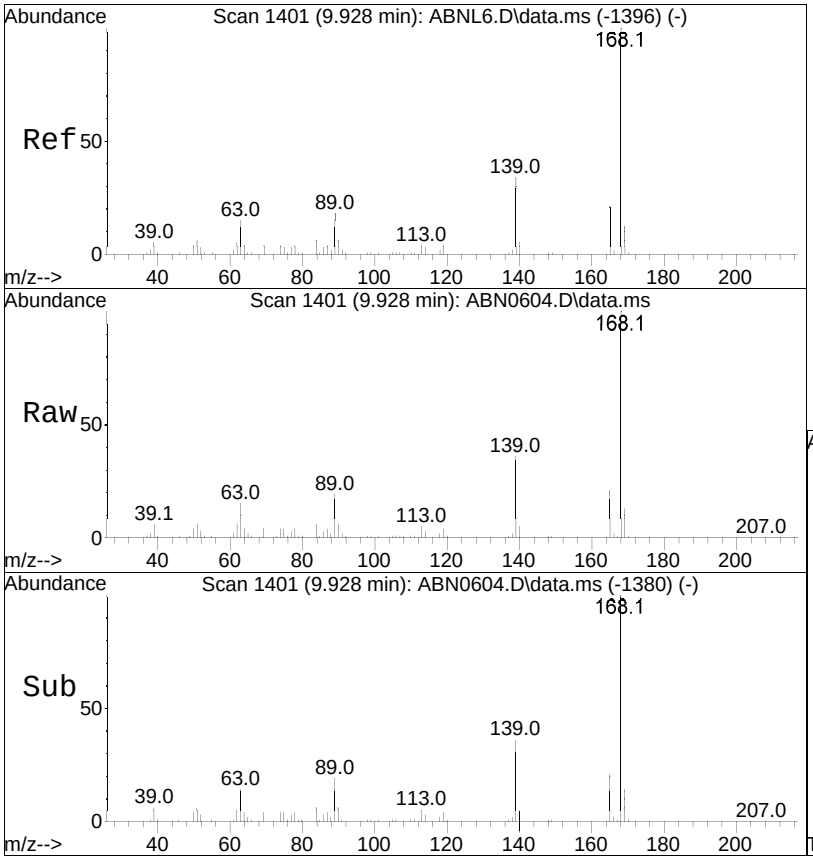


#65
2,4-Dinitrophenol
Concen: 4.38 ug/ml
RT: 9.798 min Scan# 1379
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:184 Resp: 18073

Ion	Ratio	Lower	Upper
184	100		
107	42.3	37.7	56.5
91	47.0	46.3	69.5

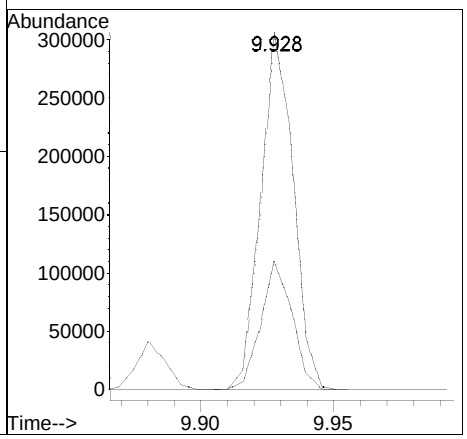


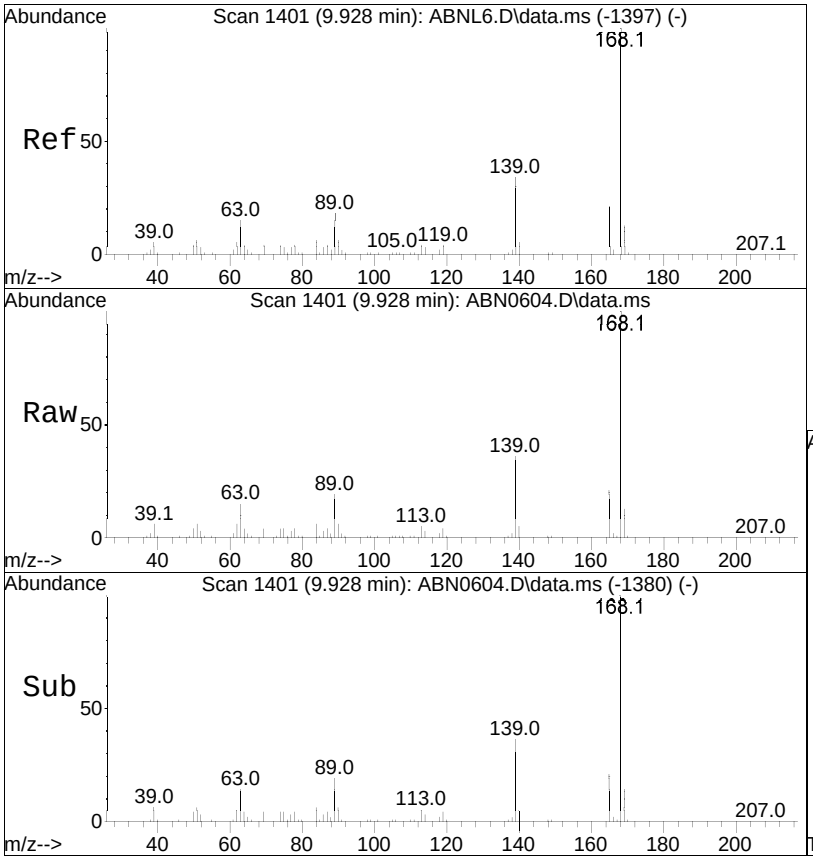


#66
Dibenzofuran
Concen: 4.76 ug/ml
RT: 9.928 min Scan# 1401
Delta R.T. -0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:168 Resp: 257070

Ion	Ratio	Lower	Upper
168	100		
139	35.0	31.4	47.2

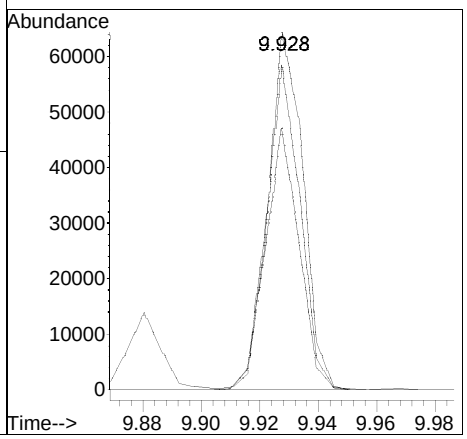


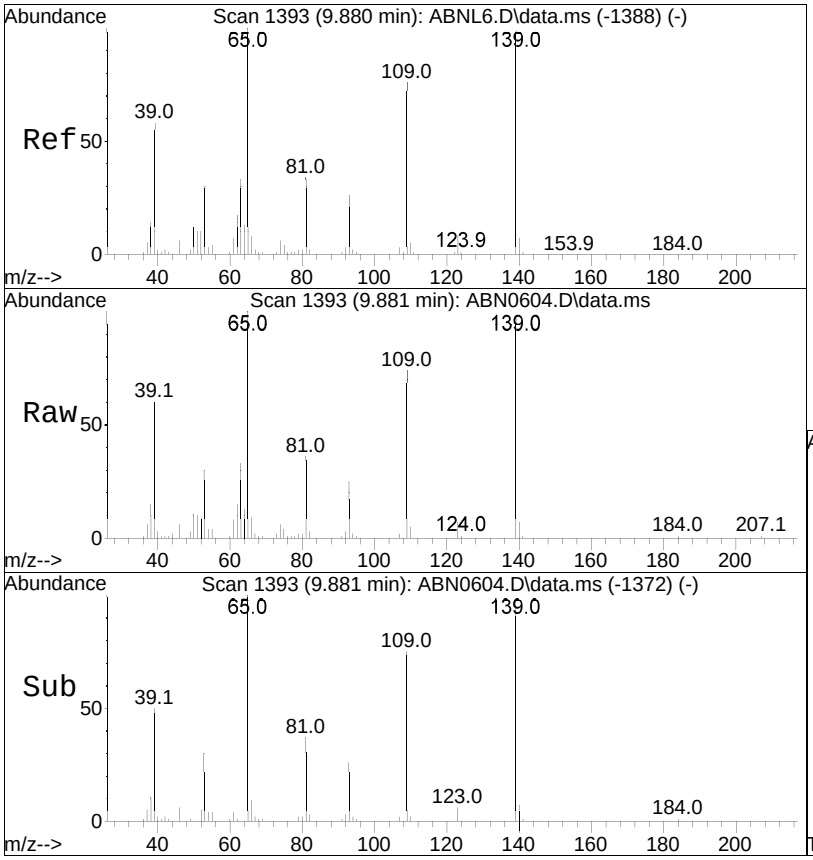


#67
2,4-Dinitrotoluene
Concen: 4.49 ug/ml
RT: 9.928 min Scan# 1401
Delta R.T. -0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:165 Resp: 52834

Ion	Ratio	Lower	Upper
165	100		
89	87.5	72.0	108.0
63	71.1	52.7	79.1

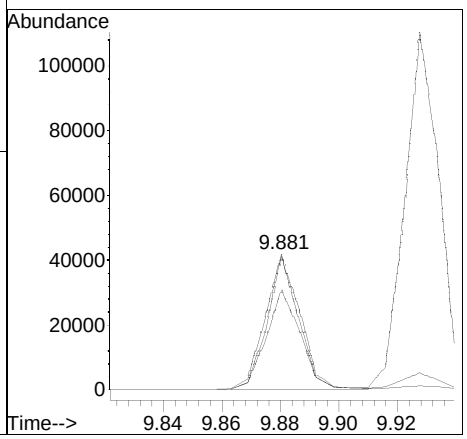


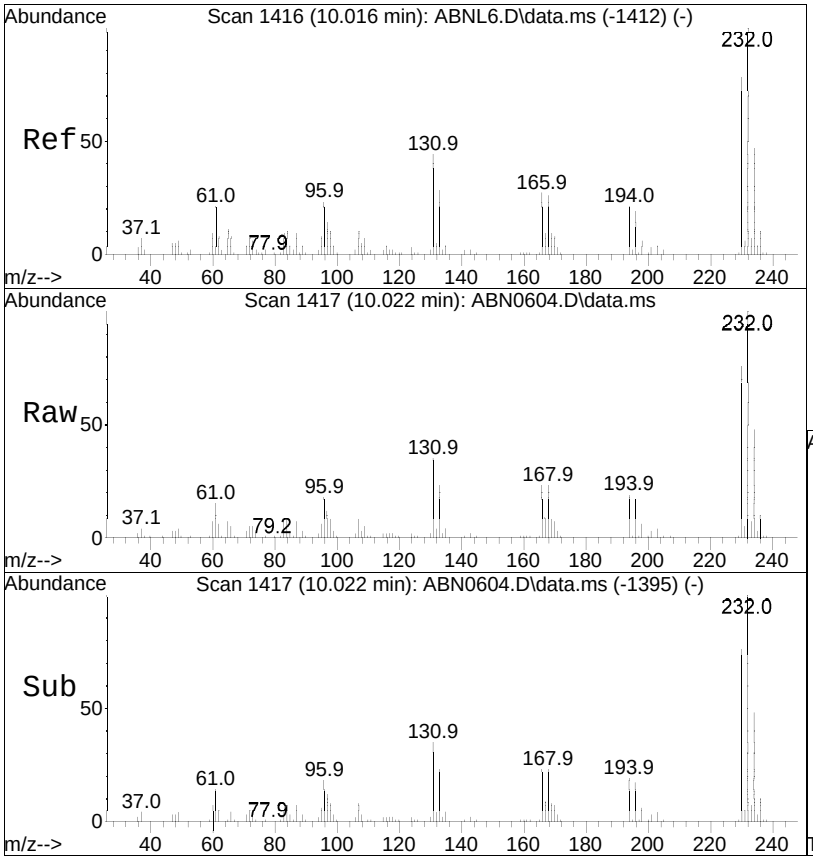


#68
4-Nitrophenol
Concen: 4.82 ug/ml
RT: 9.881 min Scan# 1393
Delta R.T. 0.001 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion: 65 Resp: 32819

Ion	Ratio	Lower	Upper
65	100		
109	76.0	47.4	71.2#
139	98.5	76.6	115.0

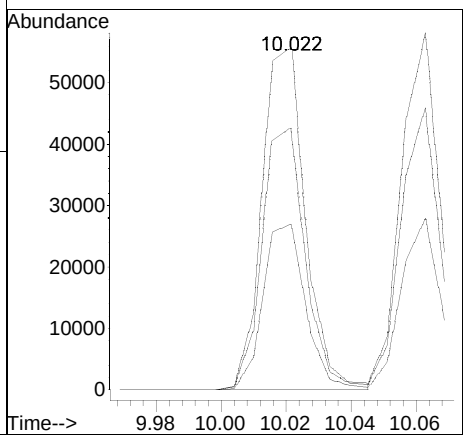


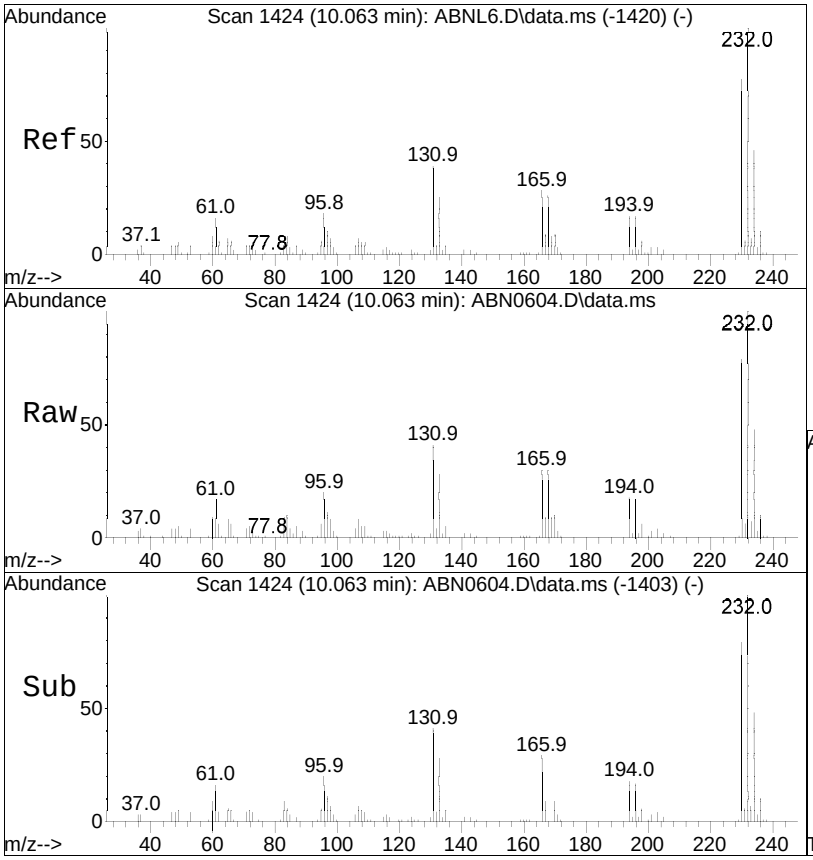


#69
2,3,5,6-Tetrachlorophenol
Concen: 5.30 ug/ml
RT: 10.022 min Scan# 1417
Delta R.T. 0.006 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:232 Resp: 51716

Ion	Ratio	Lower	Upper
232	100		
230	76.5	64.2	96.4
234	47.7	38.1	57.1

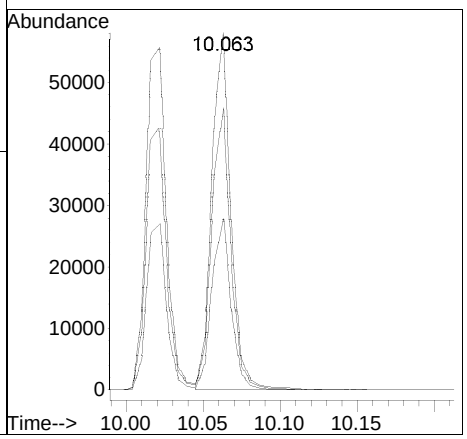


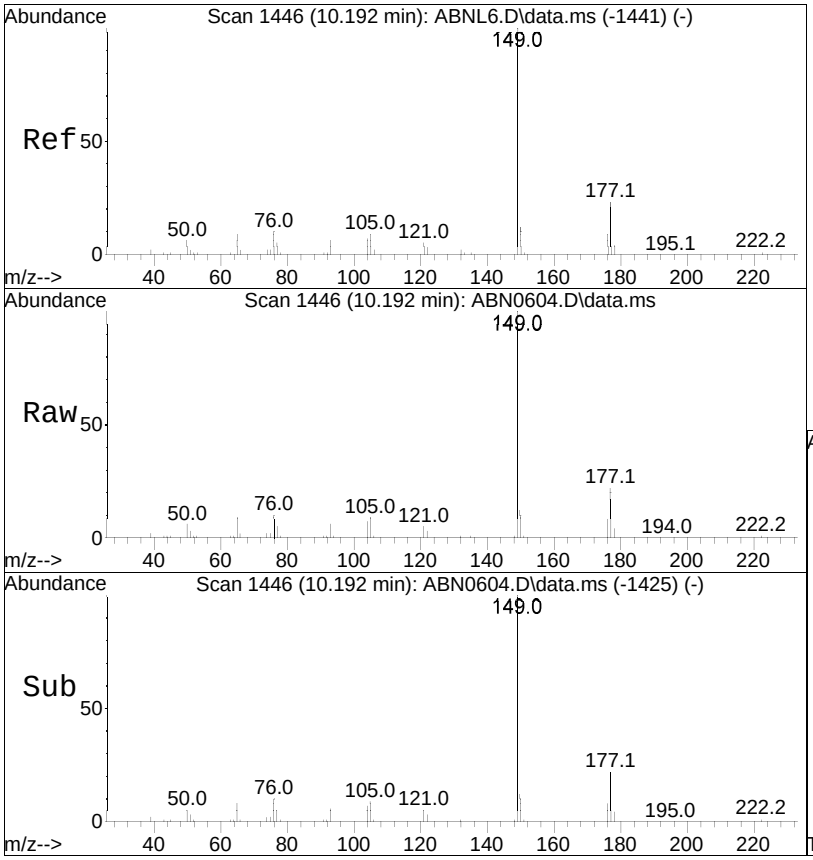


#70
2,3,4,6-Tetrachlorophenol
Concen: 5.26 ug/ml
RT: 10.063 min Scan# 1424
Delta R.T. -0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:232 Resp: 50755

Ion	Ratio	Lower	Upper
232	100		
230	78.8	61.8	92.8
234	48.2	36.2	54.2

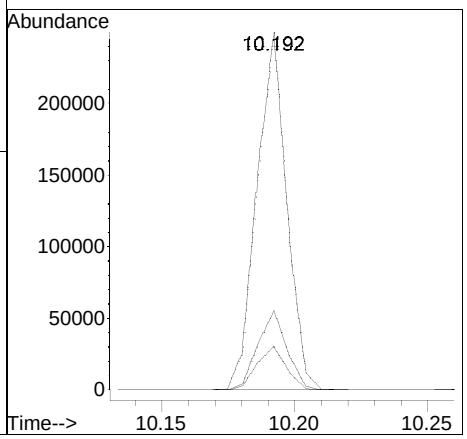


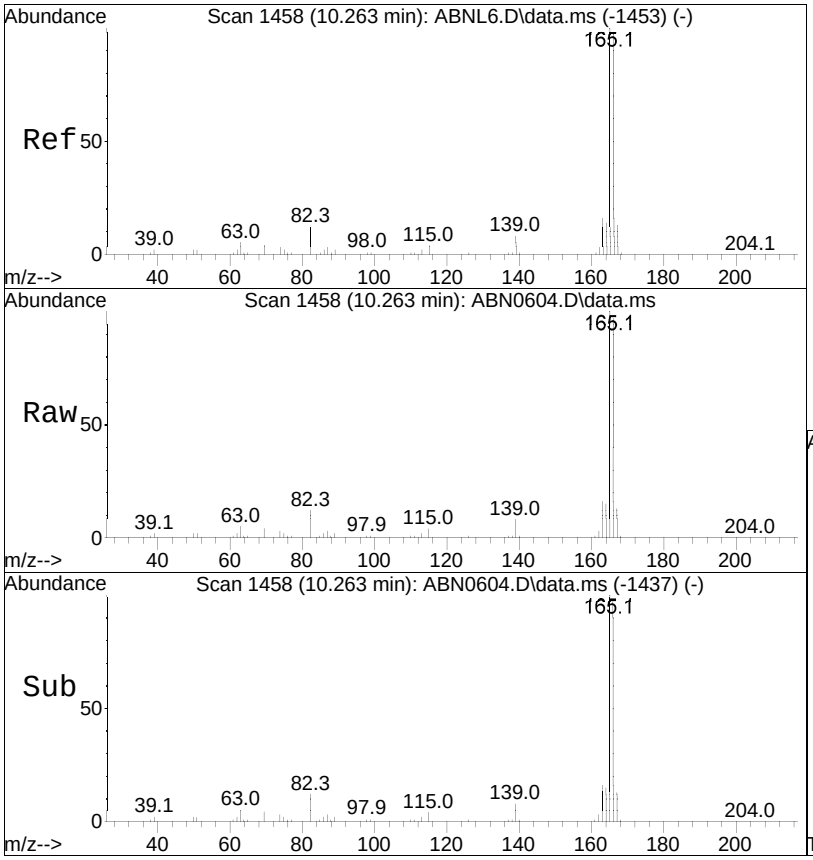


#71
Diethyl phthalate
Concen: 4.79 ug/ml
RT: 10.192 min Scan# 1446
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:149 Resp: 191687

Ion	Ratio	Lower	Upper
149	100		
177	21.7	16.1	24.1
150	12.1	9.4	14.2

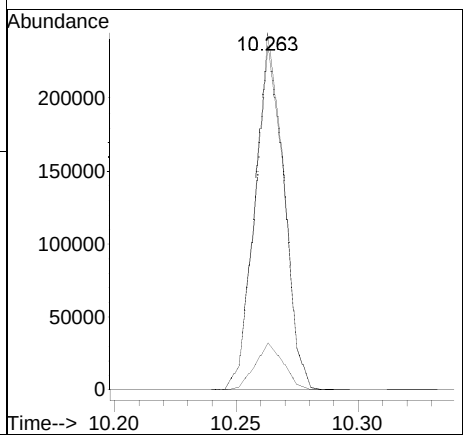


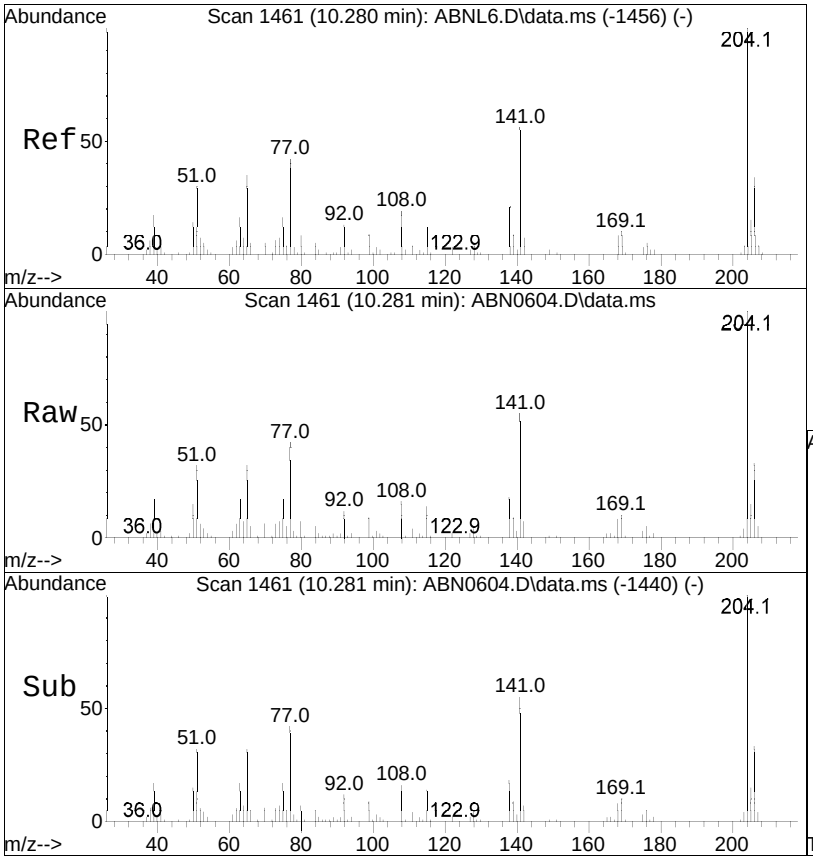


#72
Fluorene
Concen: 4.80 ug/ml
RT: 10.263 min Scan# 1458
Delta R.T. -0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:166 Resp: 196012

Ion	Ratio	Lower	Upper
166	100		
165	102.8	76.2	114.2
167	13.6	10.6	15.8

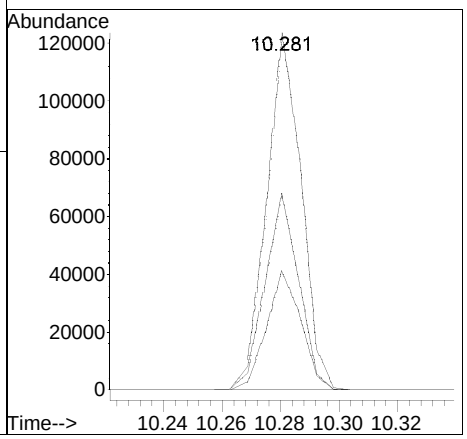


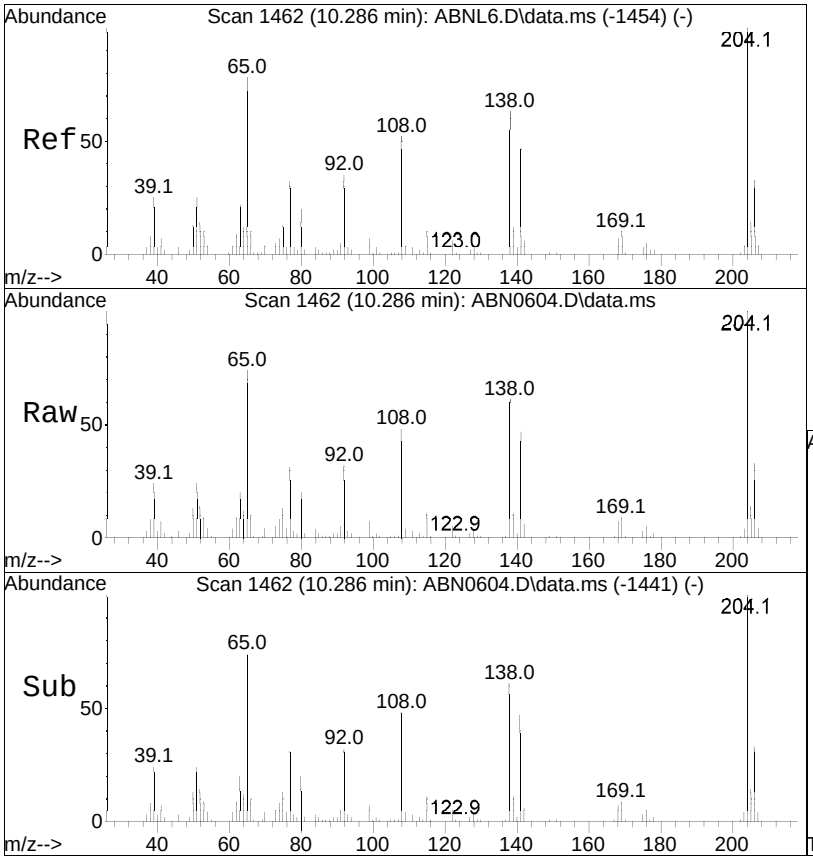


#73
4-Chlorophenyl phenyl ether
Concen: 4.85 ug/ml
RT: 10.281 min Scan# 1461
Delta R.T. 0.001 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:204 Resp: 100211

Ion	Ratio	Lower	Upper
204	100		
206	33.3	25.8	38.6
141	54.1	53.6	80.4

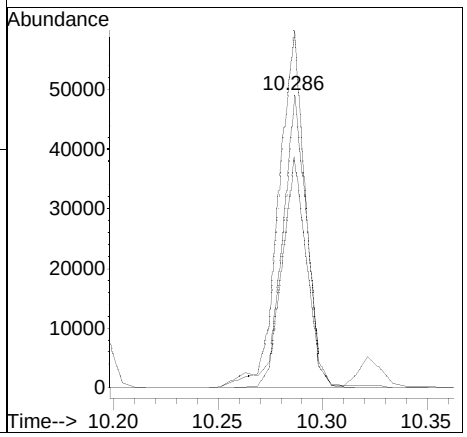


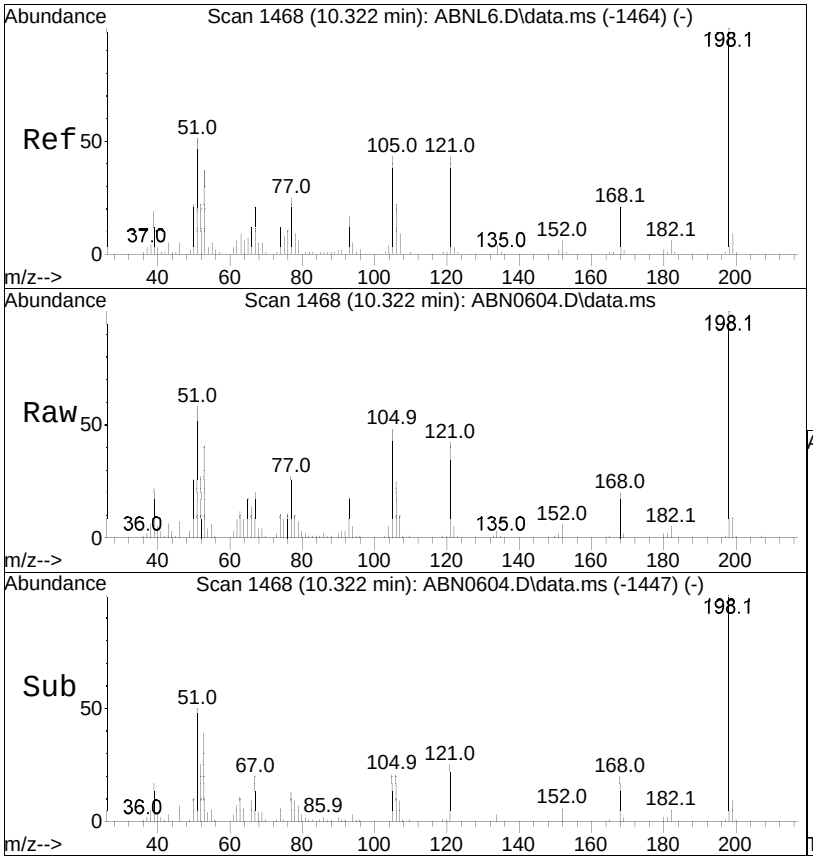


#74
4-Nitroaniline
Concen: 5.06 ug/ml
RT: 10.286 min Scan# 1462
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:138 Resp: 40814

Ion	Ratio	Lower	Upper
138	100		
108	77.4	52.1	78.1
65	128.1	115.0	172.6

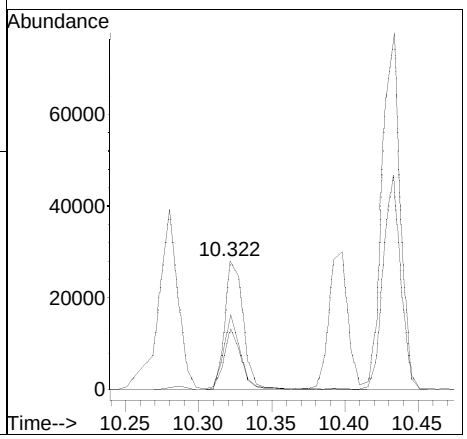


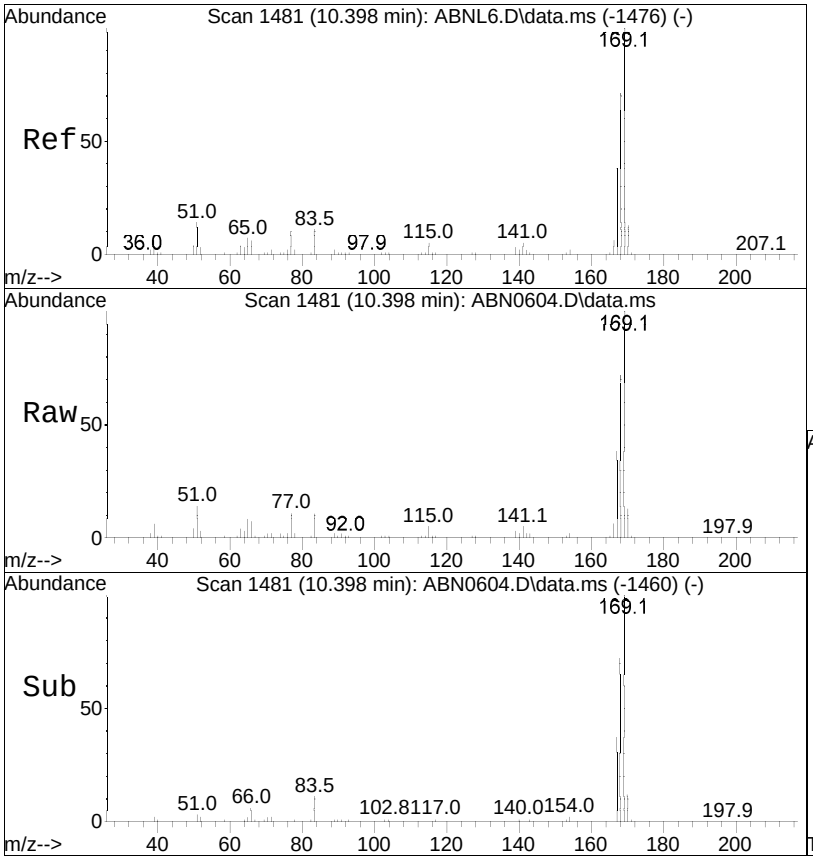


#75
4,6-Dinitro-o-cresol
Concen: 4.14 ug/ml
RT: 10.322 min Scan# 1468
Delta R.T. -0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:198 Resp: 25395

Ion	Ratio	Lower	Upper
198	100		
51	49.3	76.0	114.0#
105	43.1	45.6	68.4#

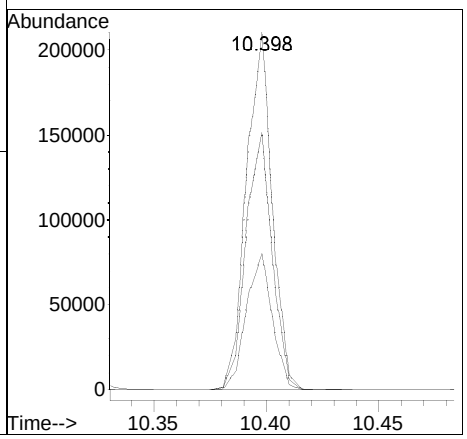


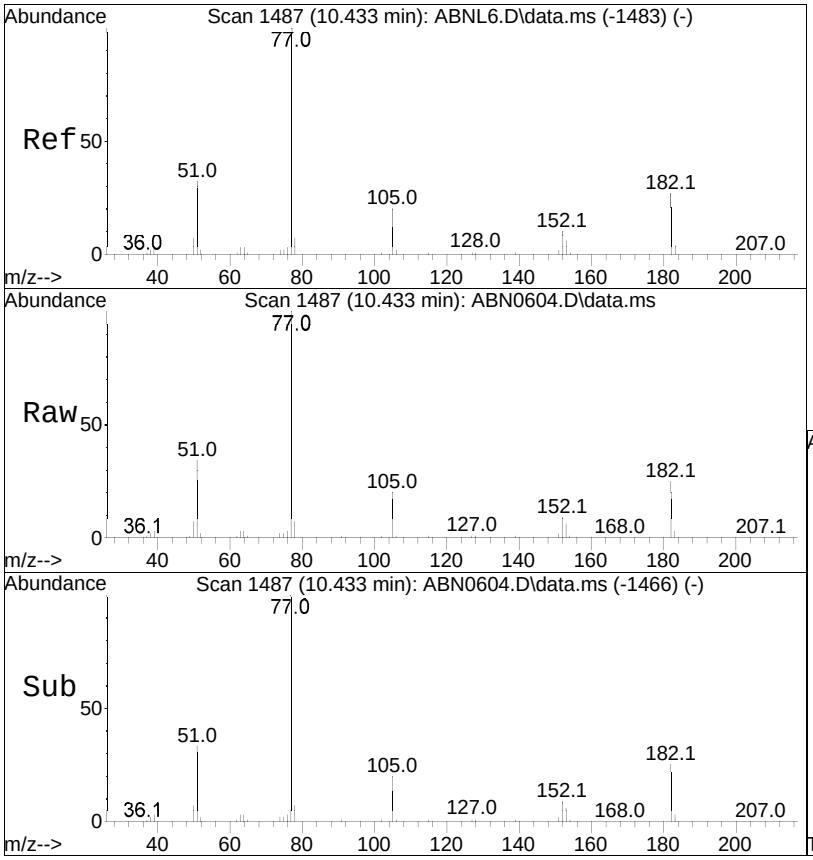


#76
NDPA/DPA
Concen: 4.82 ug/ml
RT: 10.398 min Scan# 1481
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:169 Resp: 167422

Ion	Ratio	Lower	Upper
169	100		
168	73.1	54.0	81.0
167	38.6	28.6	42.8

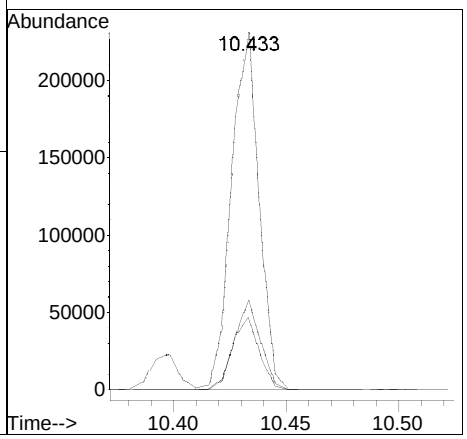


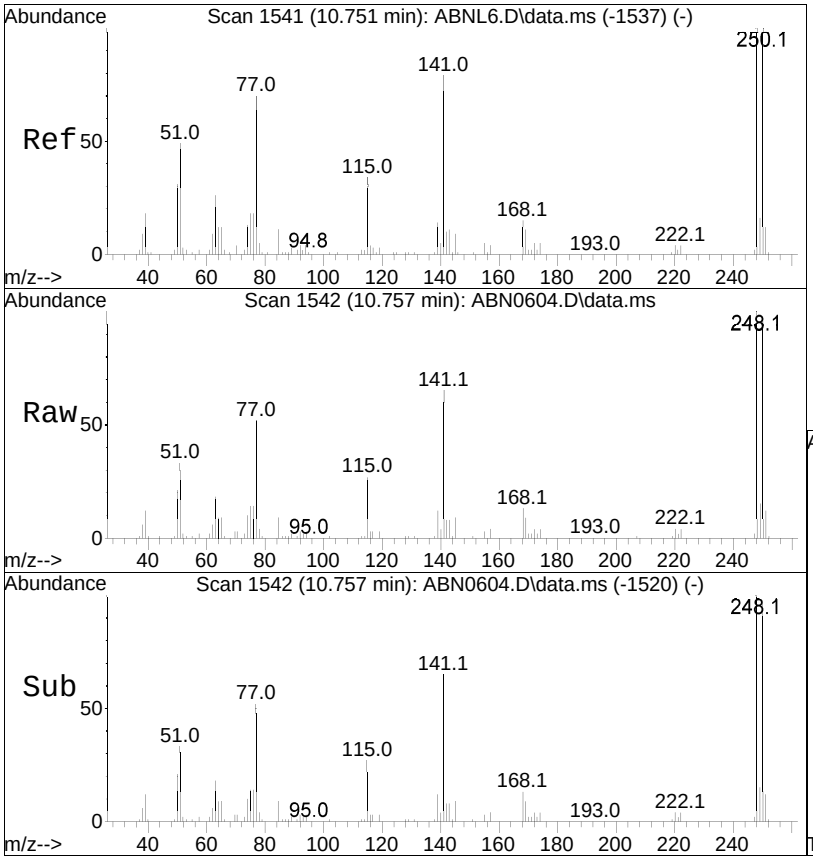


#77
Azobenzene
Concen: 5.03 ug/ml
RT: 10.433 min Scan# 1487
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion: 77 Resp: 194527

Ion	Ratio	Lower	Upper
77	100		
182	23.8	17.4	26.2
105	20.1	15.4	23.2

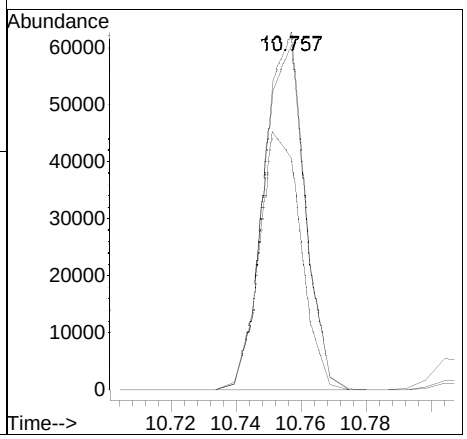


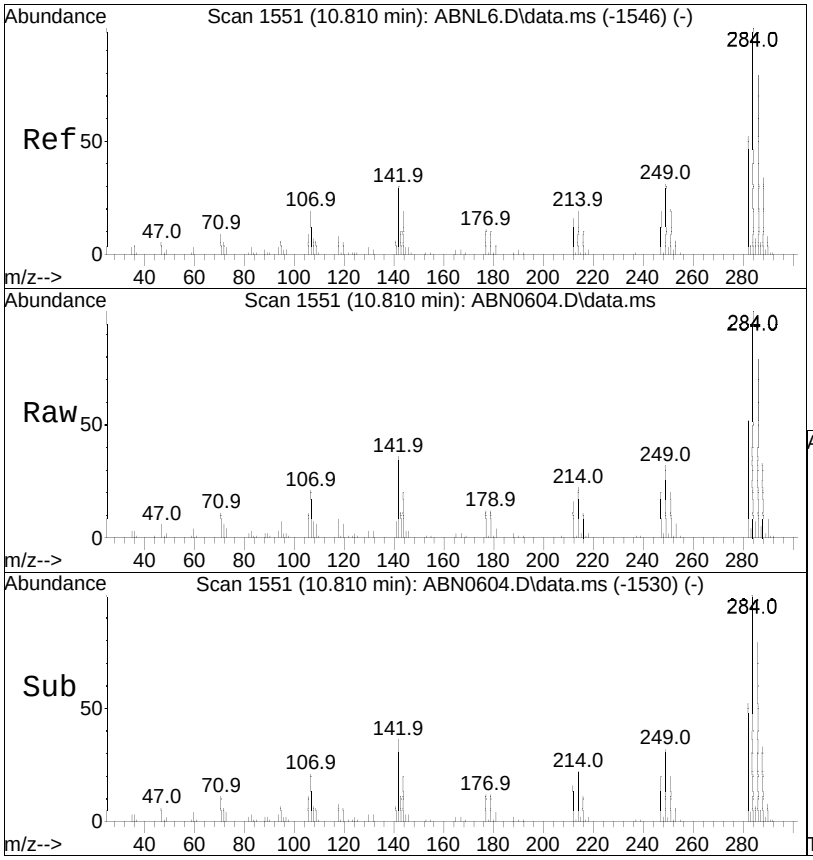


#79
4-Bromophenyl phenyl ether
Concen: 4.71 ug/ml
RT: 10.757 min Scan# 1542
Delta R.T. 0.006 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:248 Resp: 54438

Ion	Ratio	Lower	Upper
248	100		
141	73.5	76.6	114.8#
250	97.2	77.3	115.9

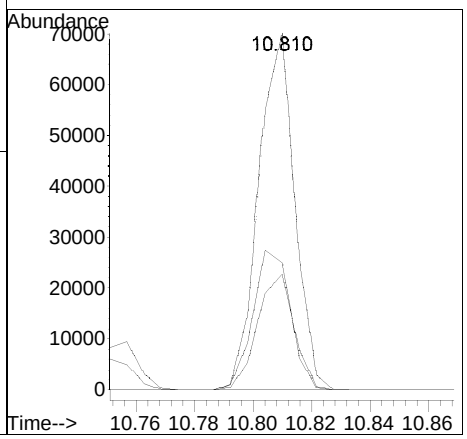


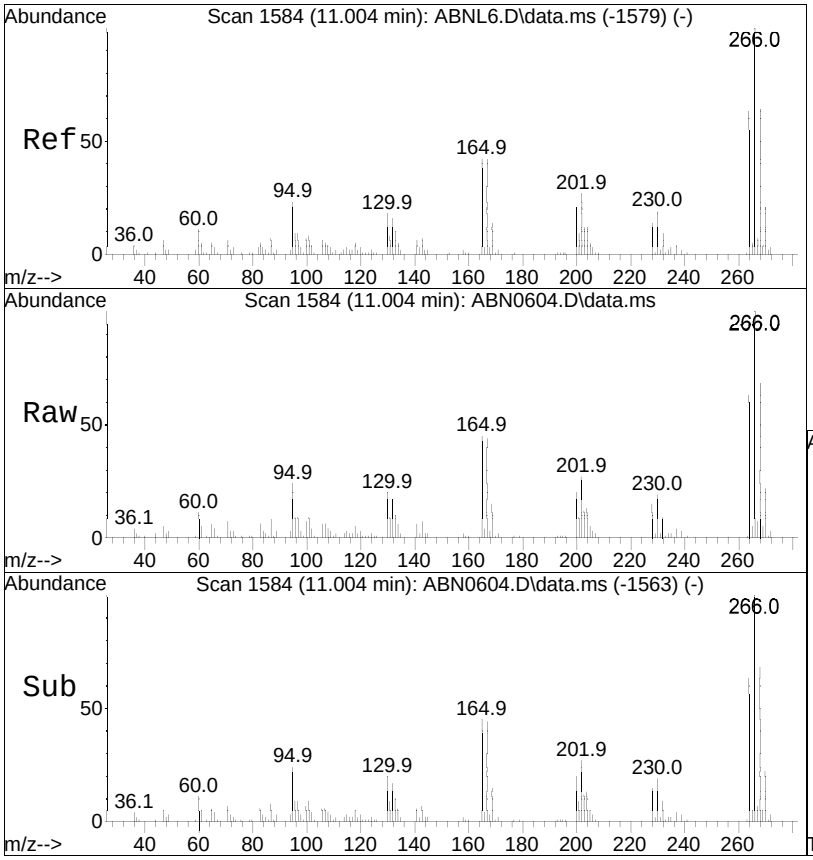


#80
Hexachlorobenzene
Concen: 4.52 ug/ml
RT: 10.810 min Scan# 1551
Delta R.T. -0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:284 Resp: 59844

Ion	Ratio	Lower	Upper
284	100		
142	41.0	41.9	62.9#
249	33.1	24.1	36.1

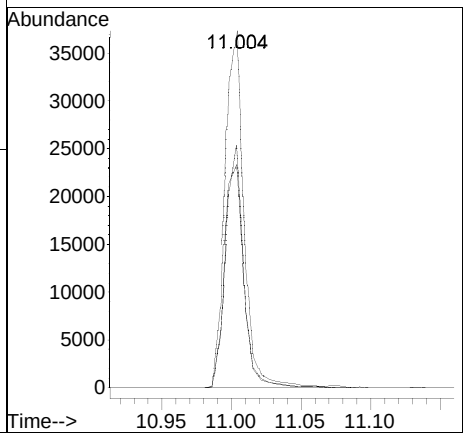


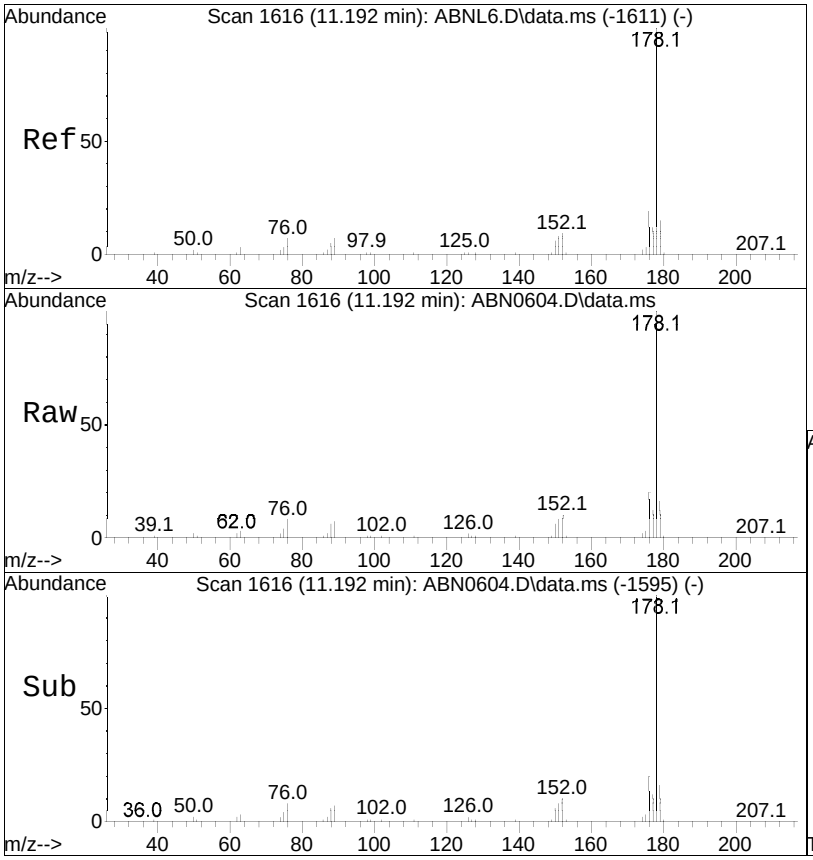


#81
Pentachlorophenol
Concen: 4.60 ug/ml
RT: 11.004 min Scan# 1584
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:266 Resp: 35577

Ion	Ratio	Lower	Upper
266	100		
264	63.5	49.7	74.5
268	64.4	50.5	75.7

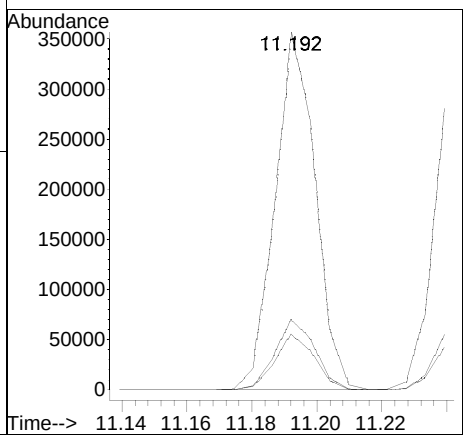


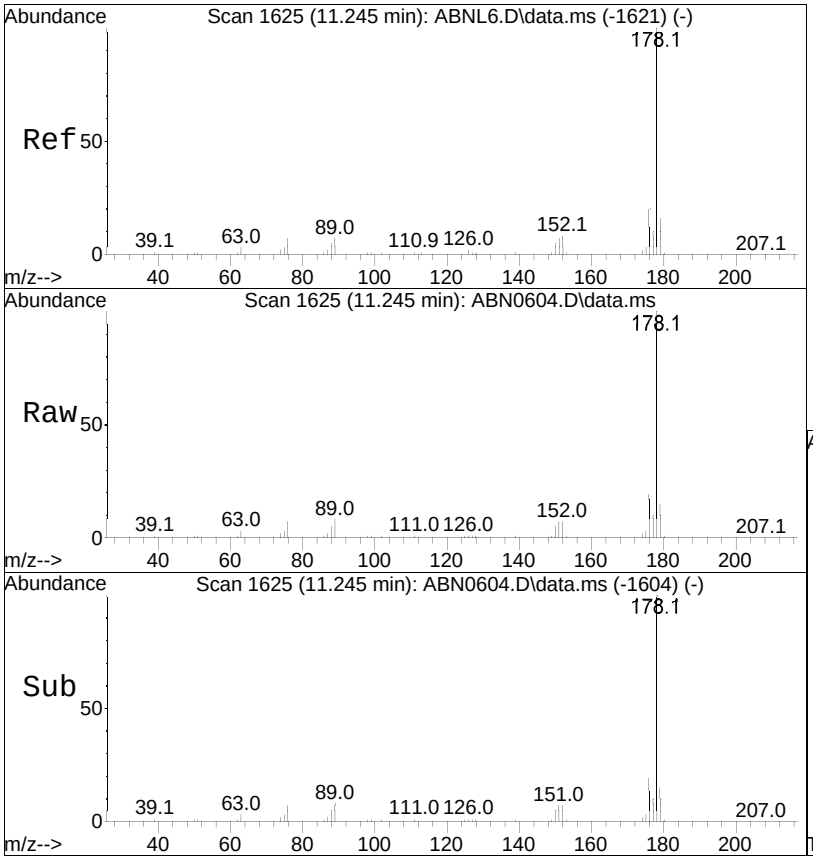


#88
Phenanthrene
Concen: 4.79 ug/ml
RT: 11.192 min Scan# 1616
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:178 Resp: 305293

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.2
176	19.5	15.4	23.2

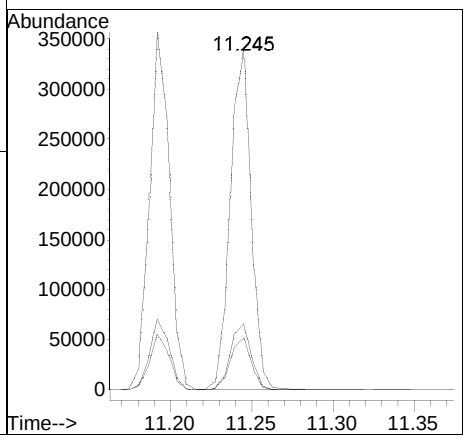


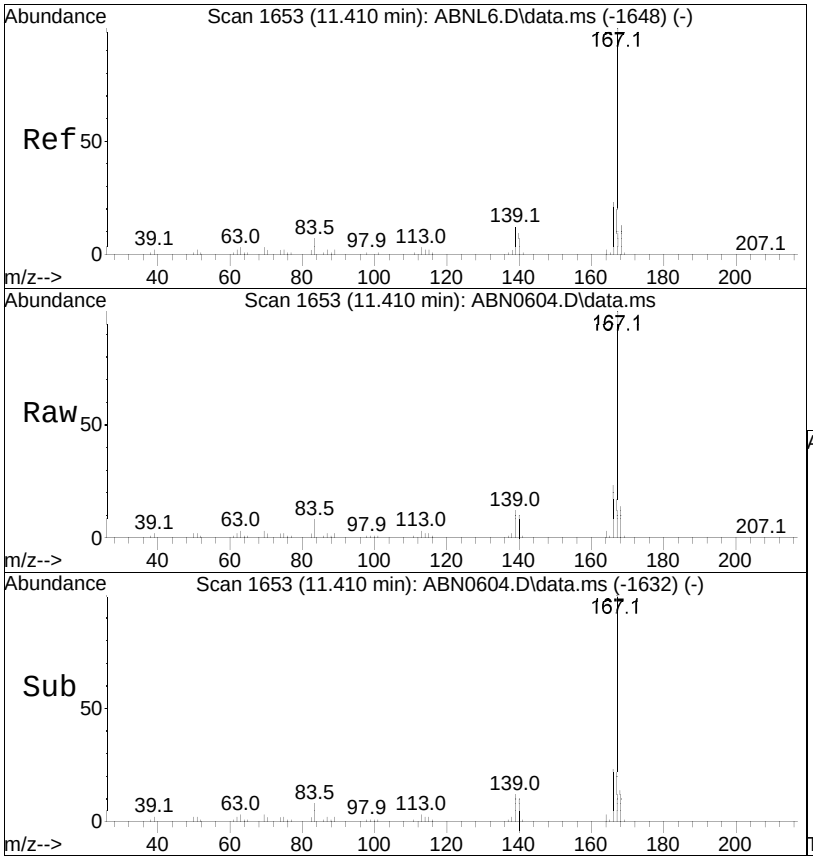


#89
Anthracene
Concen: 4.81 ug/ml
RT: 11.245 min Scan# 1625
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:178 Resp: 303650

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.0	18.0
176	19.3	14.6	22.0

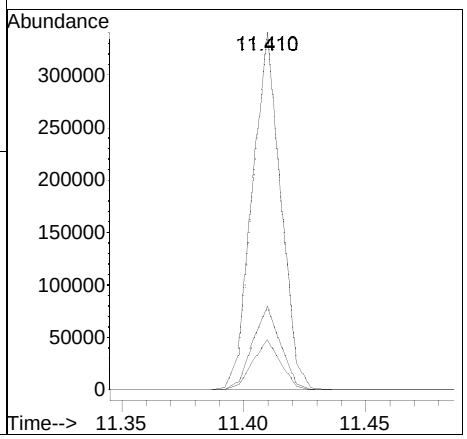


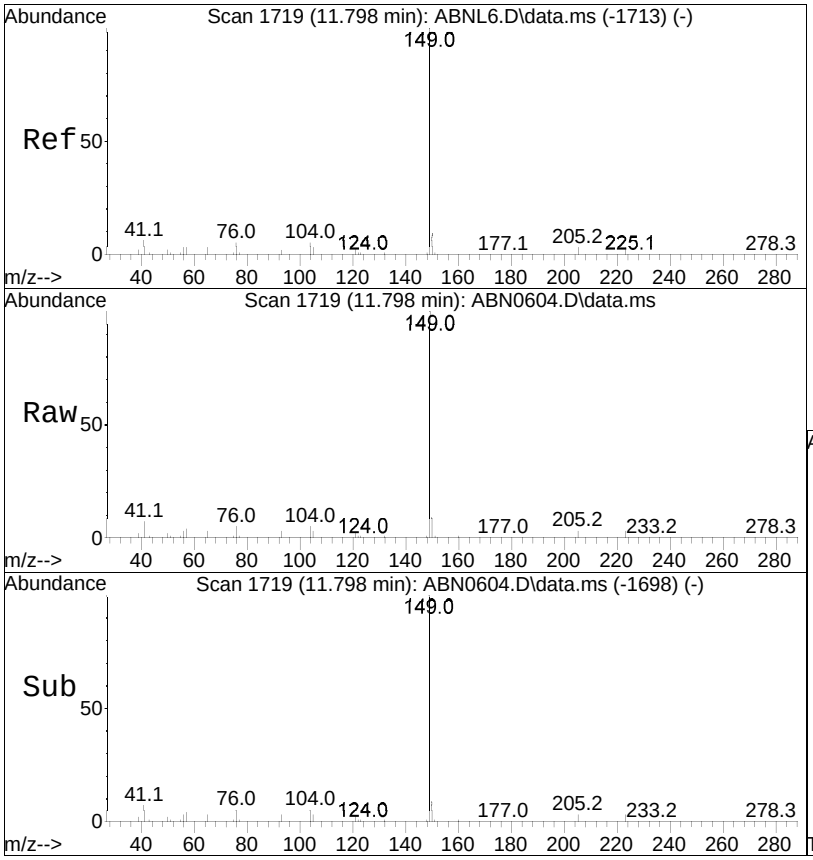


#90
Carbazole
Concen: 4.81 ug/ml
RT: 11.410 min Scan# 1653
Delta R.T. -0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:167 Resp: 274053

Ion	Ratio	Lower	Upper
167	100		
168	13.9	10.6	15.8
166	23.2	17.4	26.0

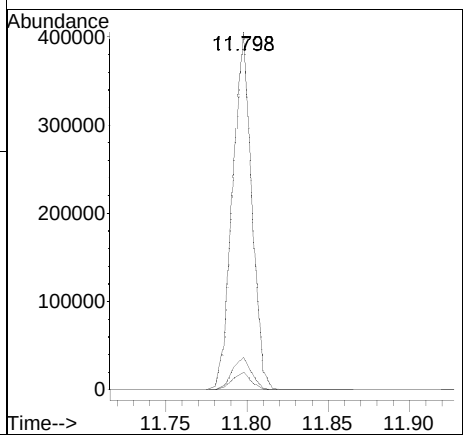


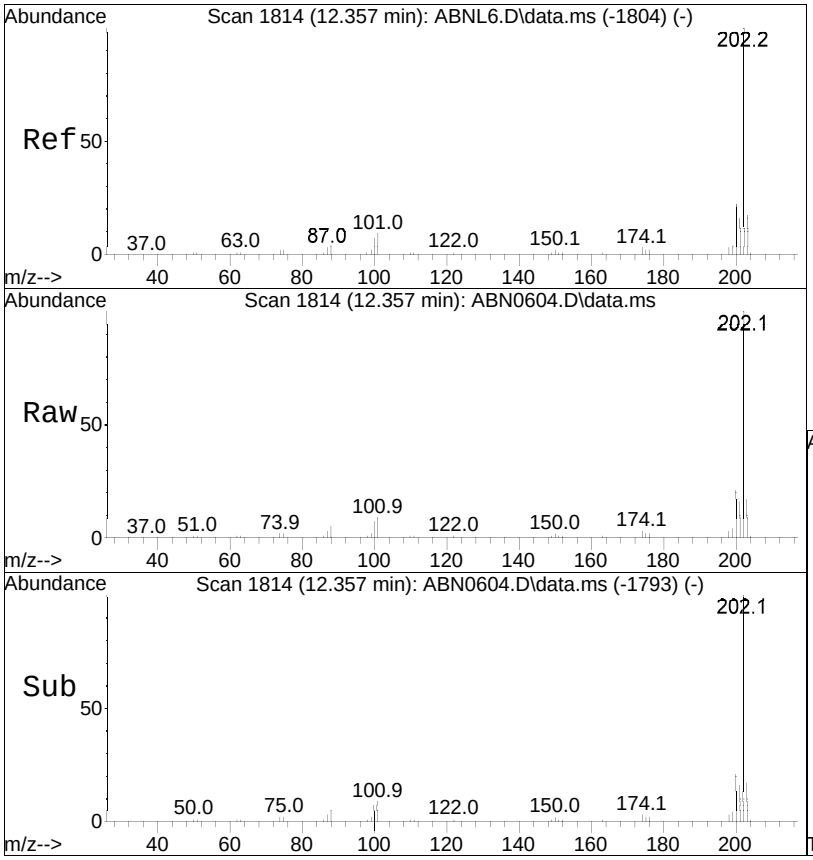


#91
Di-n-butylphthalate
Concen: 4.87 ug/ml
RT: 11.798 min Scan# 1719
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:149 Resp: 325393

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.0	10.6
104	4.9	4.5	6.7

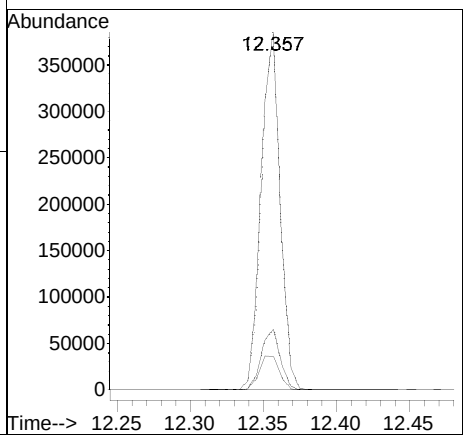


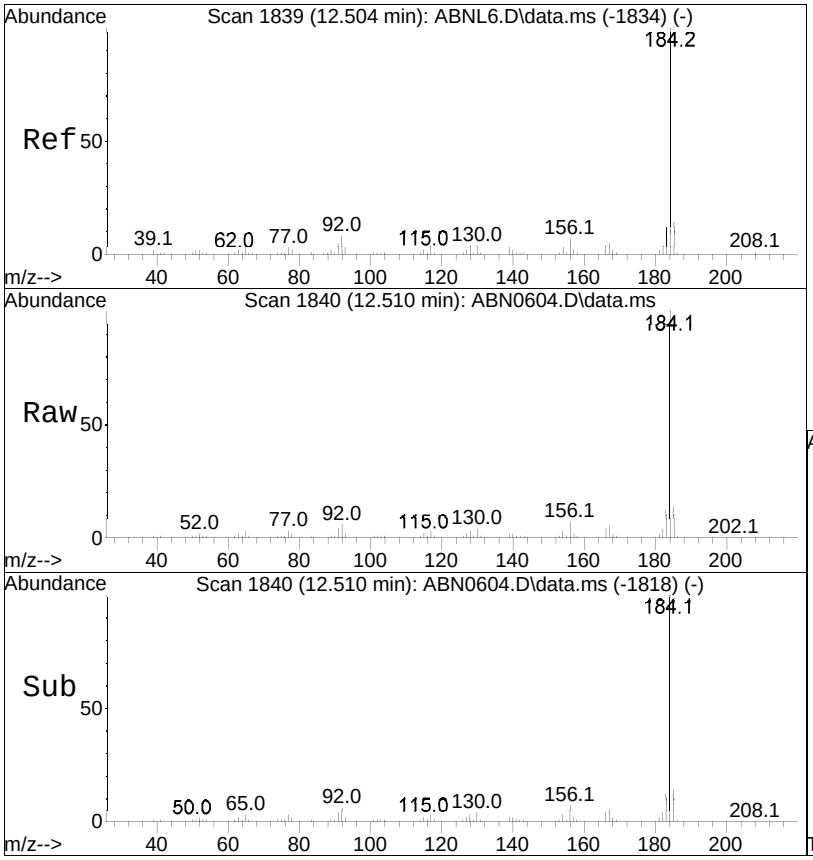


#92
Fluoranthene
Concen: 4.70 ug/ml
RT: 12.357 min Scan# 1814
Delta R.T. -0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:202 Resp: 342244

Ion	Ratio	Lower	Upper
202	100		
101	10.2	13.5	20.3#
203	17.2	13.6	20.4

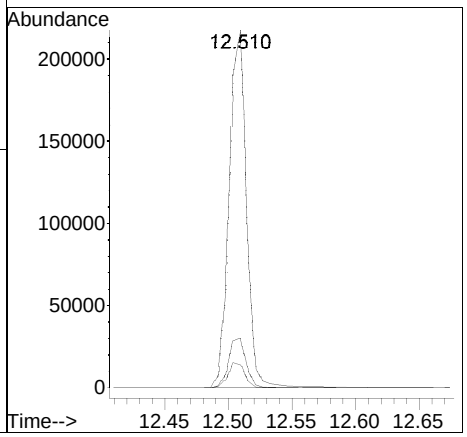


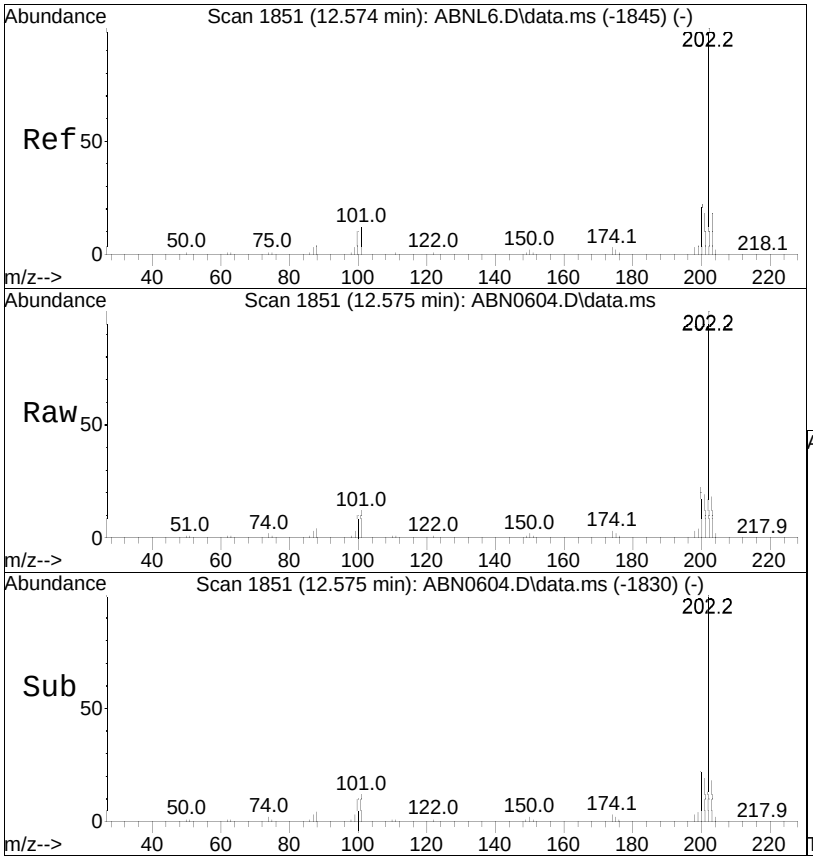


#93
Benzidine
Concen: 4.57 ug/ml
RT: 12.510 min Scan# 1840
Delta R.T. 0.006 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:184 Resp: 202001

Ion	Ratio	Lower	Upper
184	100		
92	7.0	9.1	13.7#
185	14.2	11.1	16.7

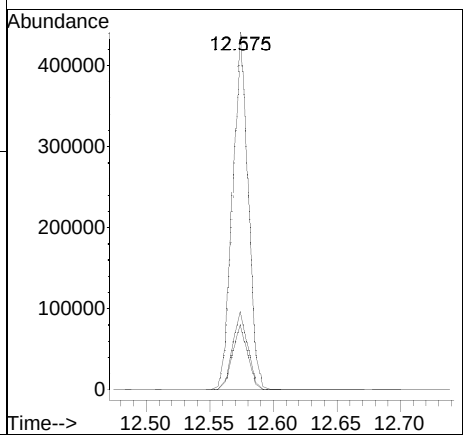


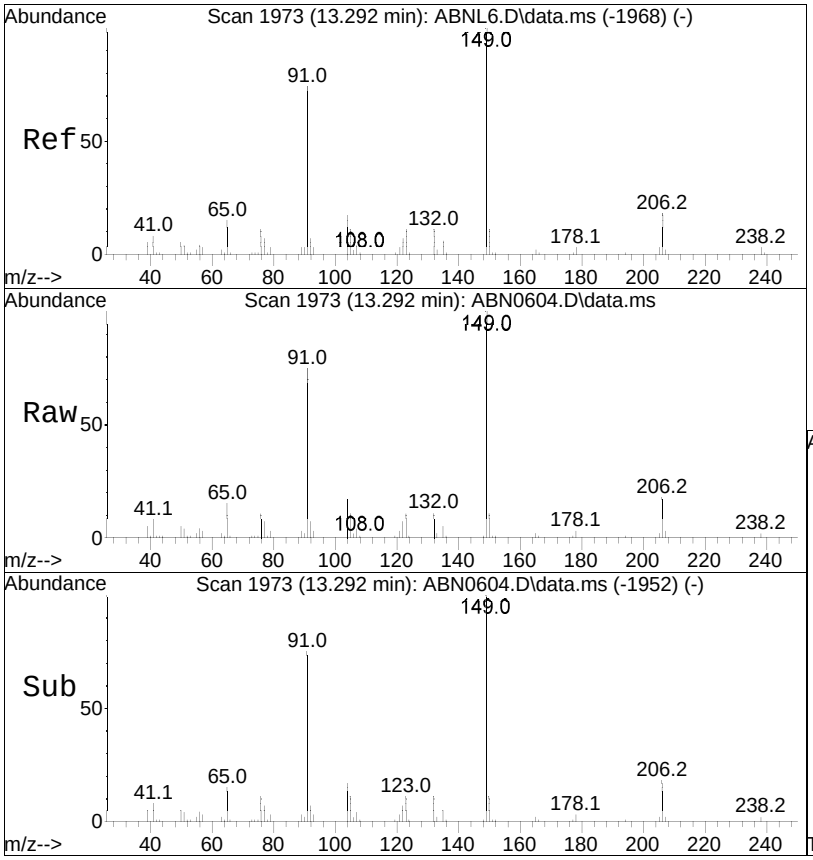


#94
Pyrene
Concen: 4.75 ug/ml
RT: 12.575 min Scan# 1851
Delta R.T. 0.001 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:202 Resp: 369714

Ion	Ratio	Lower	Upper
202	100		
200	21.8	16.7	25.1
203	18.0	14.2	21.4

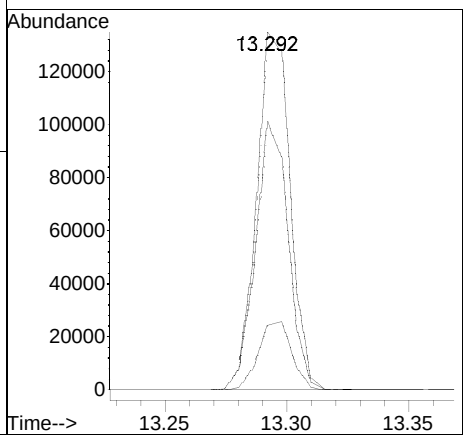


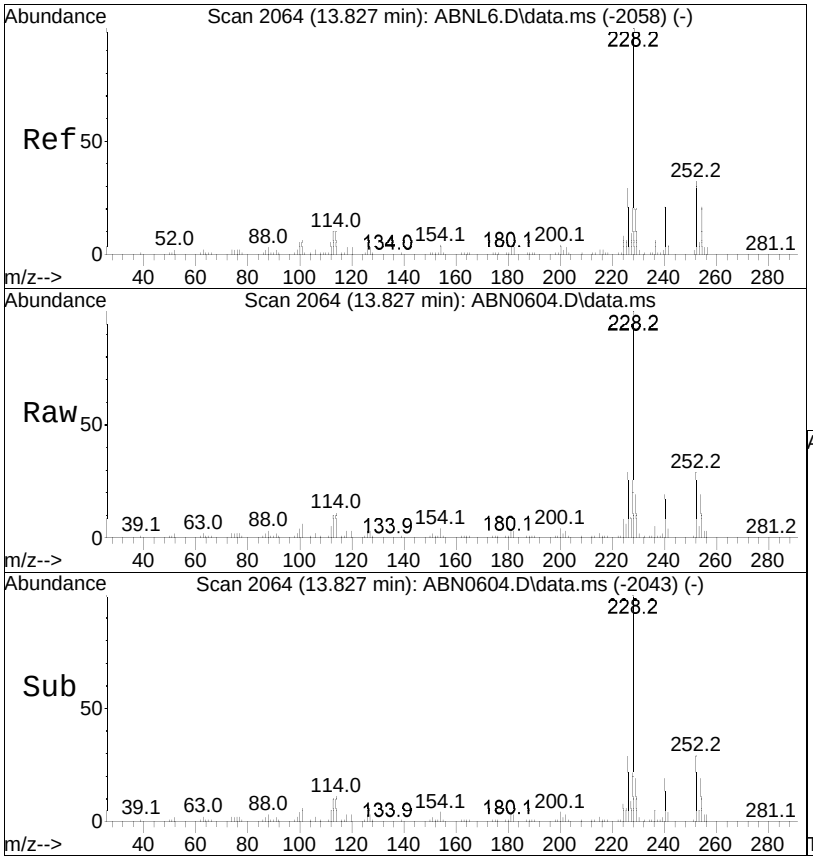


#96
Butyl benzyl phthalate
Concen: 4.11 ug/ml
RT: 13.292 min Scan# 1973
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:149 Resp: 127719

Ion	Ratio	Lower	Upper
149	100		
91	73.3	63.3	94.9
206	19.1	13.9	20.9

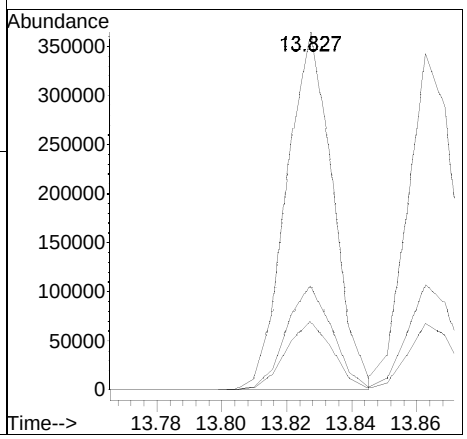


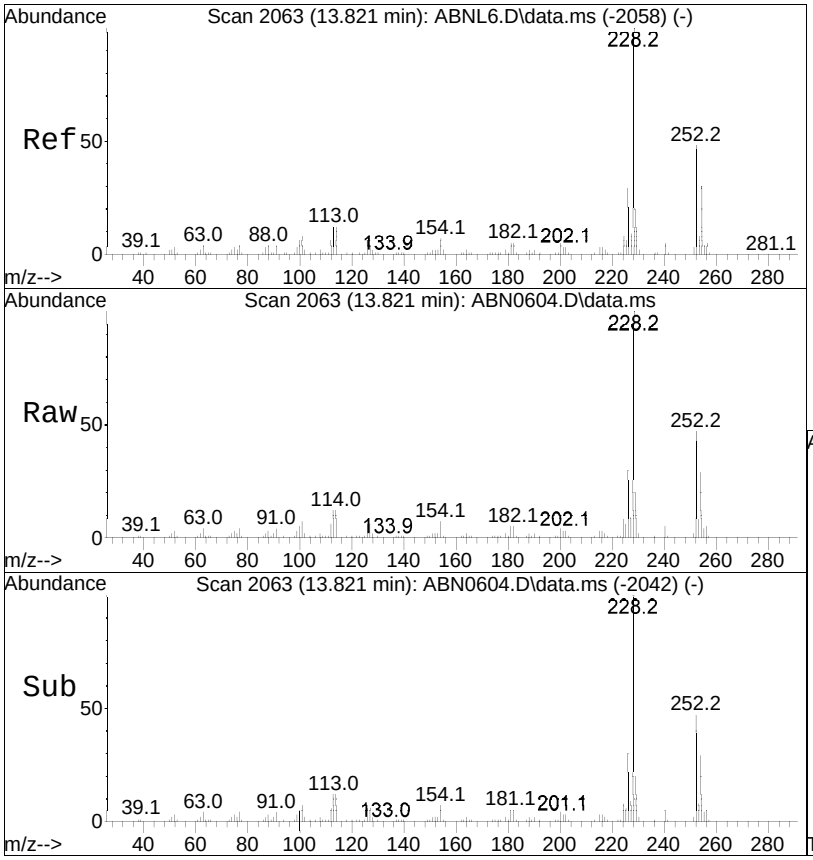


#104
Benzo(a)anthracene
Concen: 4.79 ug/ml
RT: 13.827 min Scan# 2064
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:228 Resp: 362459

Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.2	33.4
229	19.3	15.6	23.4

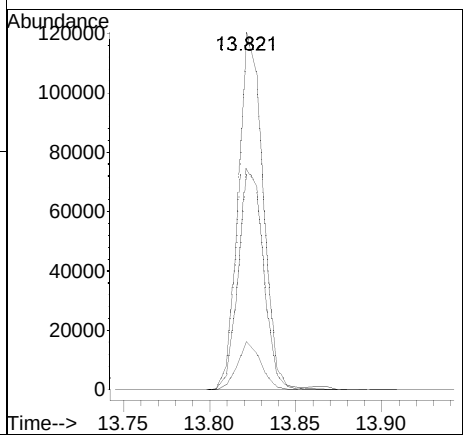


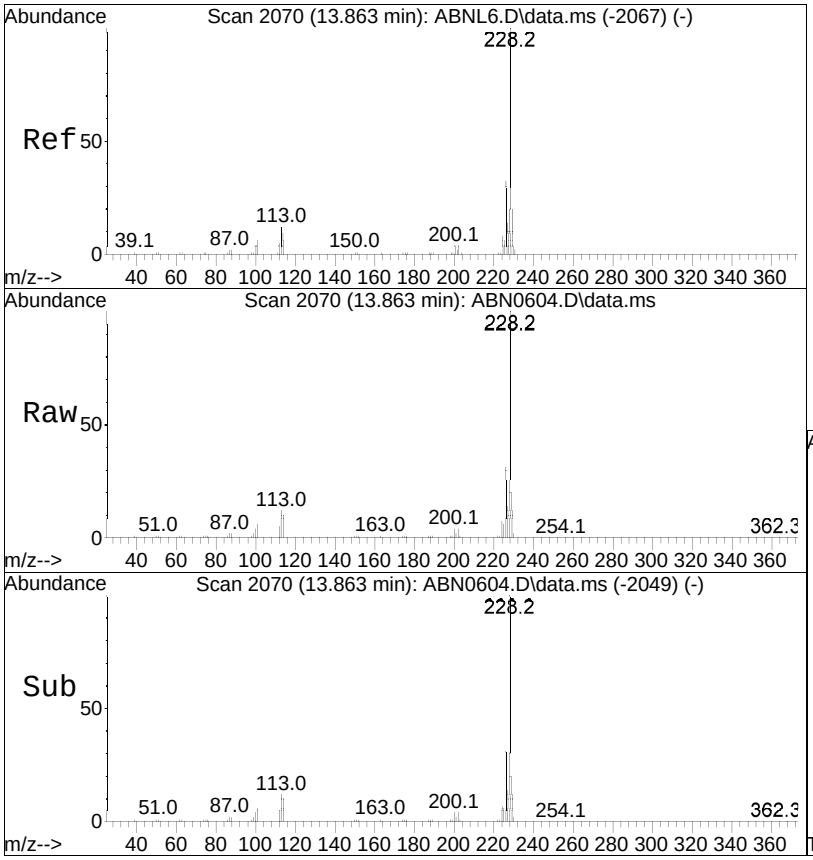


#105
3,3'-Dichlorobenzidine
Concen: 4.90 ug/ml
RT: 13.821 min Scan# 2063
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:252 Resp: 119366

Ion	Ratio	Lower	Upper
252	100		
126	13.2	14.5	21.7#
254	63.1	51.2	76.8

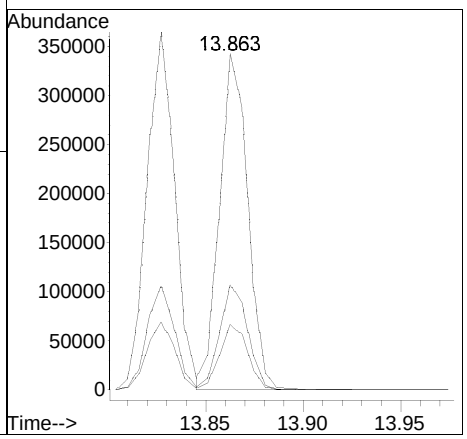


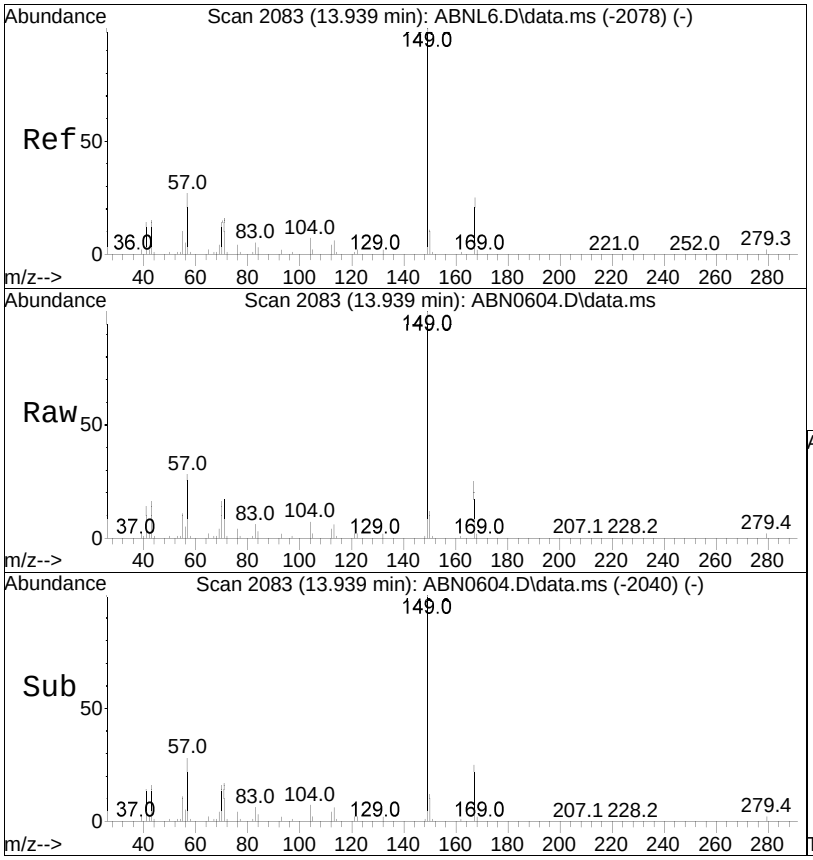


#106
Chrysene
Concen: 4.74 ug/ml
RT: 13.863 min Scan# 2070
Delta R.T. -0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:228 Resp: 342970

Ion	Ratio	Lower	Upper
228	100		
226	31.4	24.0	36.0
229	19.5	15.8	23.8

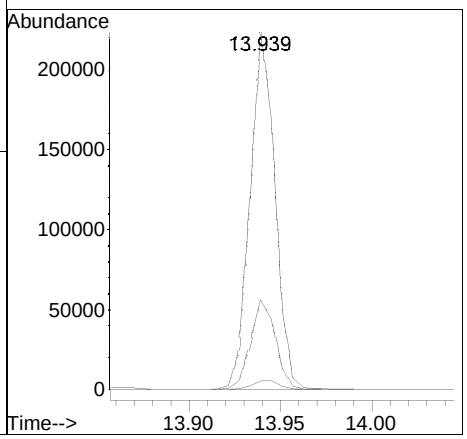


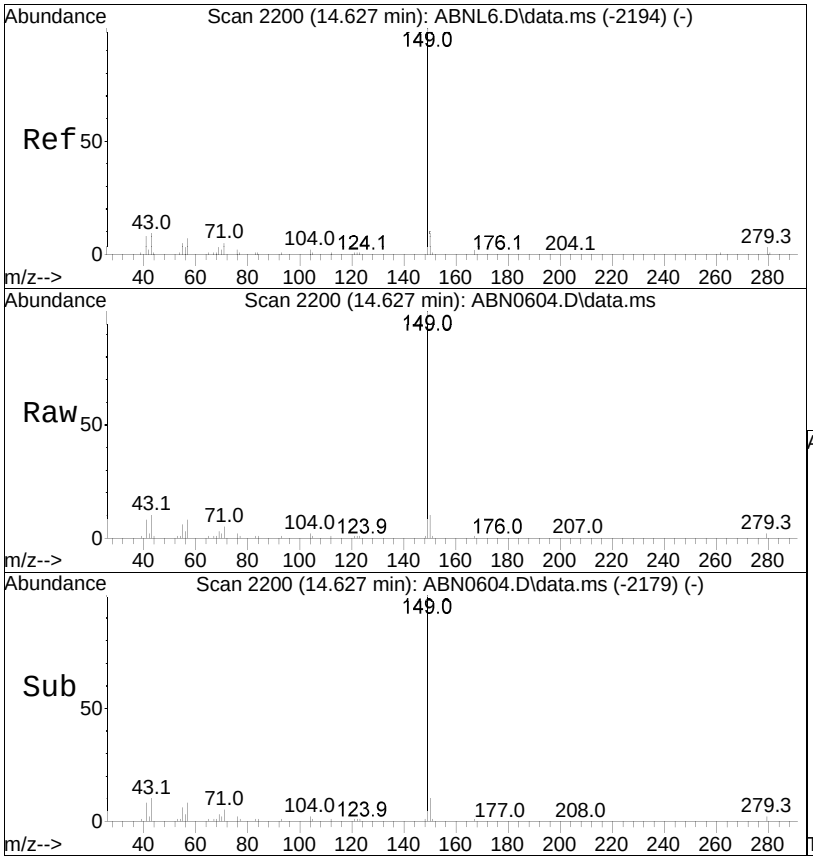


#107
Bis(2-ethylhexyl)phthalate
Concen: 4.31 ug/ml
RT: 13.939 min Scan# 2083
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:149 Resp: 209233

Ion	Ratio	Lower	Upper
149	100		
167	25.2	22.1	33.1
279	2.5	3.0	4.4#

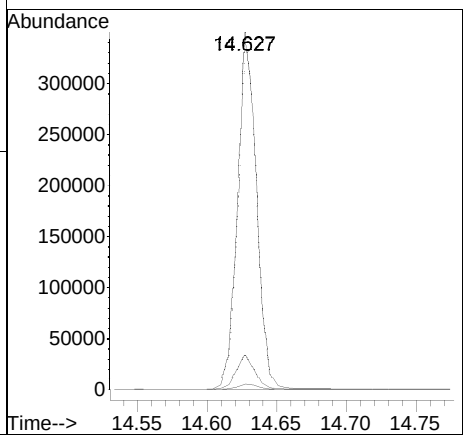


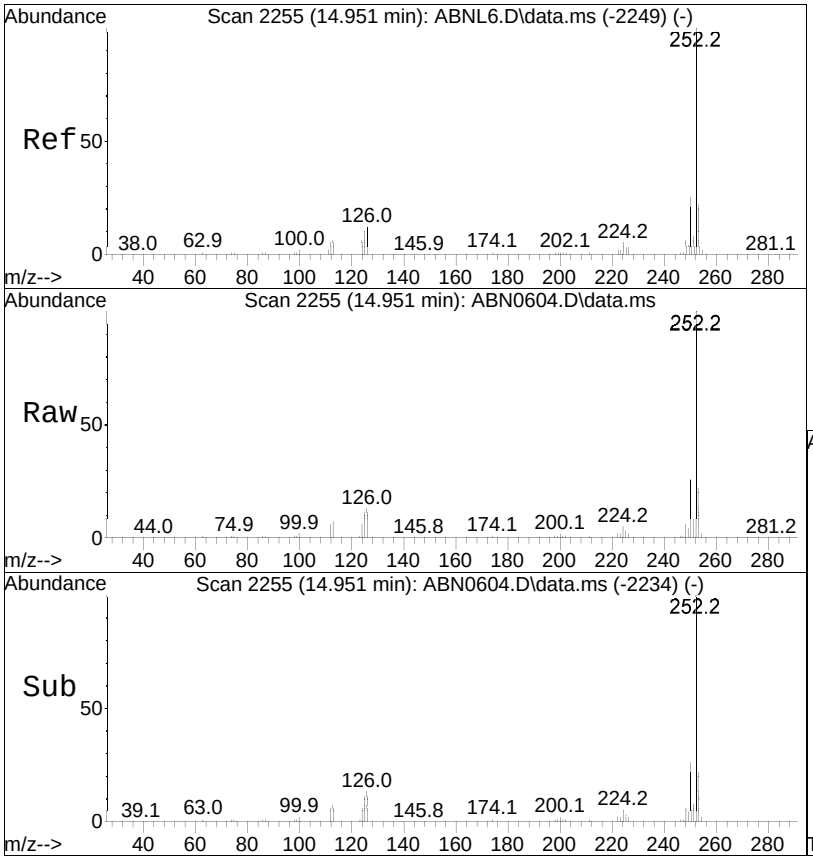


#108
Di-n-octylphthalate
Concen: 4.16 ug/ml
RT: 14.627 min Scan# 2200
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:149 Resp: 324274

Ion	Ratio	Lower	Upper
149	100		
43	9.9	18.8	28.2#
167	1.5	1.3	1.9

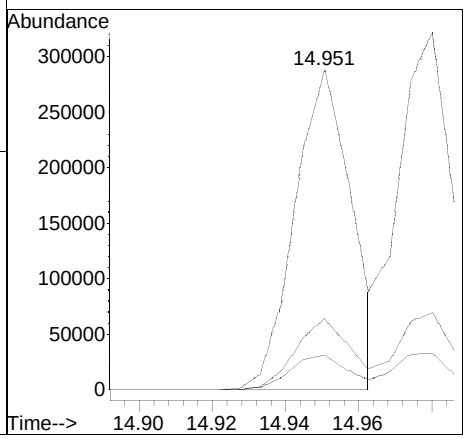


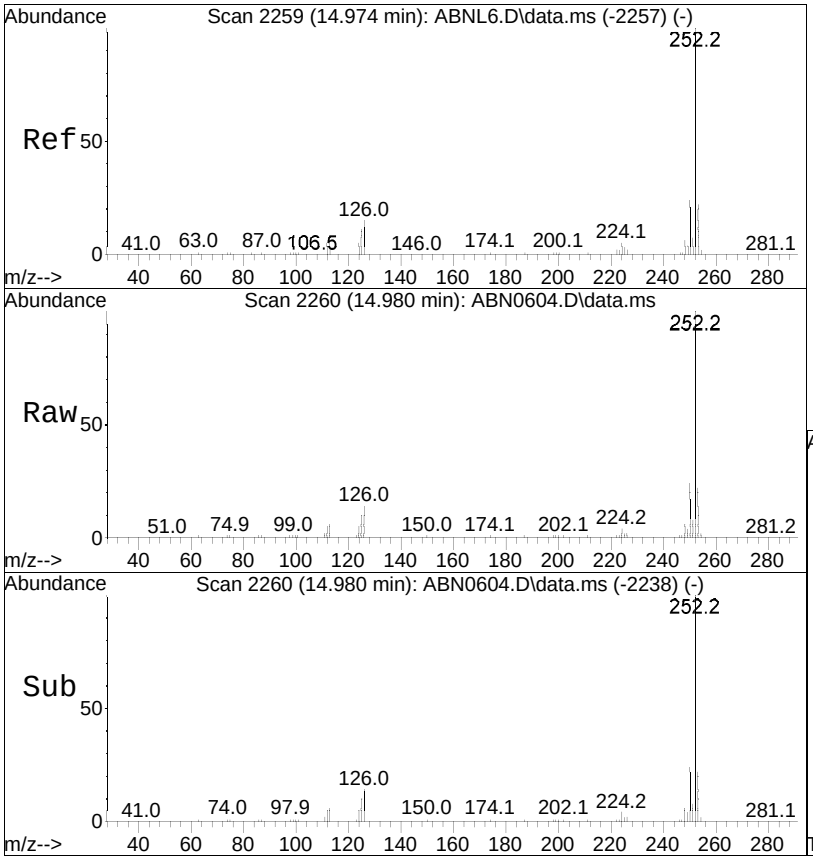


#109
Benzo(b)fluoranthene
Concen: 4.69 ug/ml
RT: 14.951 min Scan# 2255
Delta R.T. -0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:252 Resp: 312775

Ion	Ratio	Lower	Upper
252	100		
125	11.2	13.3	19.9#
253	21.7	17.1	25.7

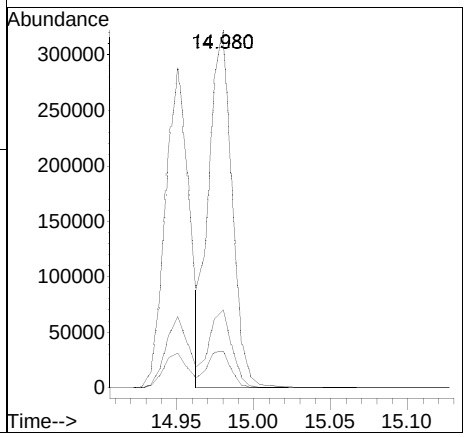


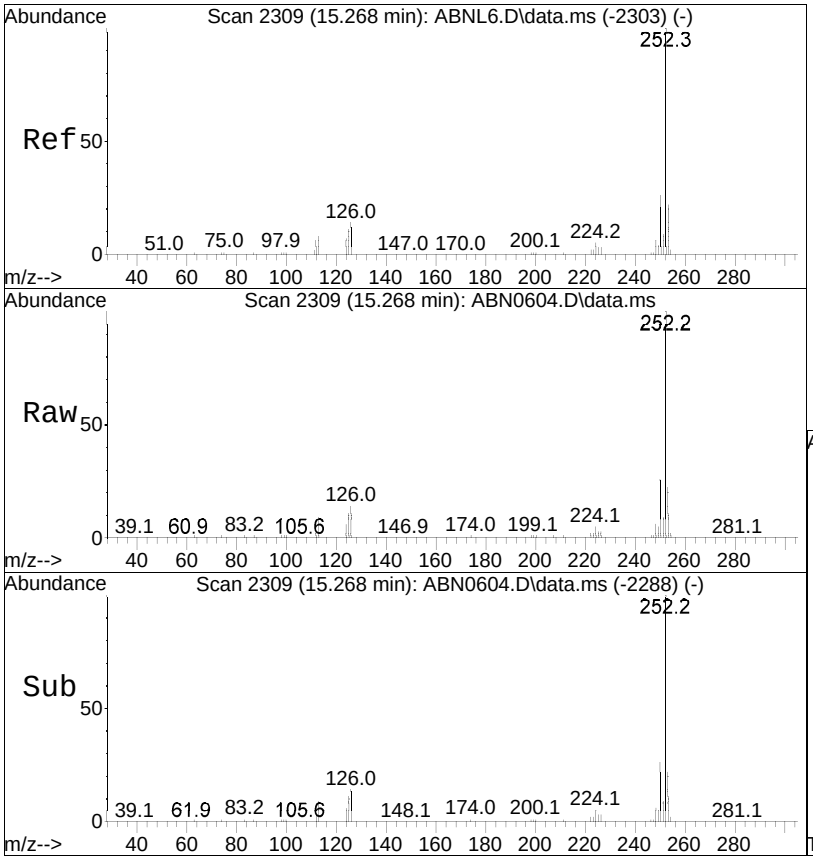


#110
Benzo(k)fluoranthene
Concen: 5.13 ug/ml
RT: 14.980 min Scan# 2260
Delta R.T. 0.006 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:252 Resp: 335600

Ion	Ratio	Lower	Upper
252	100		
125	10.7	13.0	19.6#
253	21.7	16.8	25.2

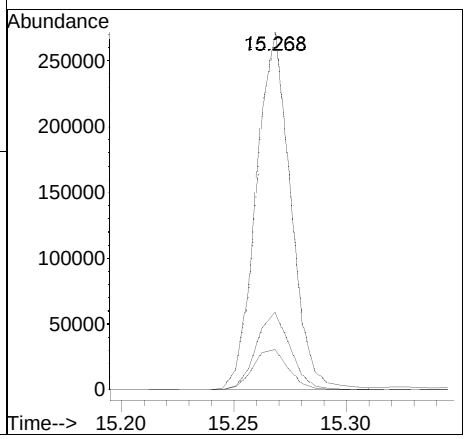


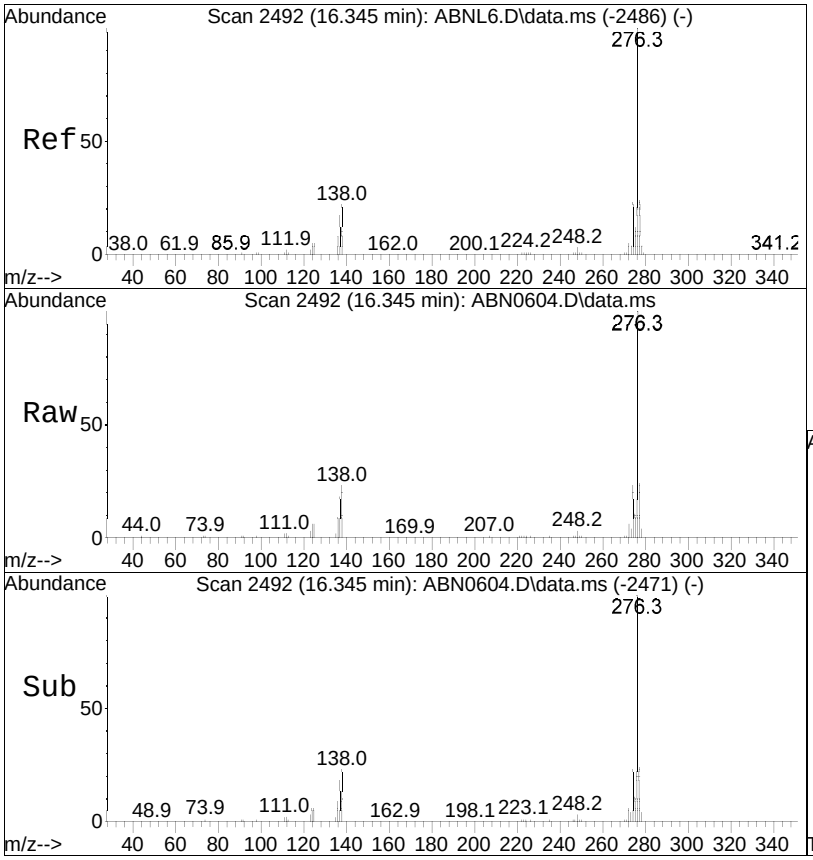


#111
Benzo(a)pyrene
Concen: 4.97 ug/ml
RT: 15.268 min Scan# 2309
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:252 Resp: 288635

Ion	Ratio	Lower	Upper
252	100		
125	12.0	14.2	21.2#
253	21.7	16.9	25.3

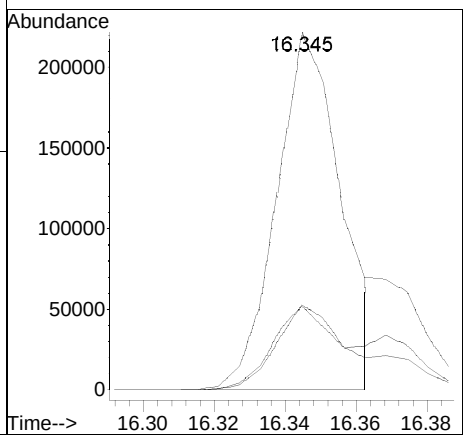


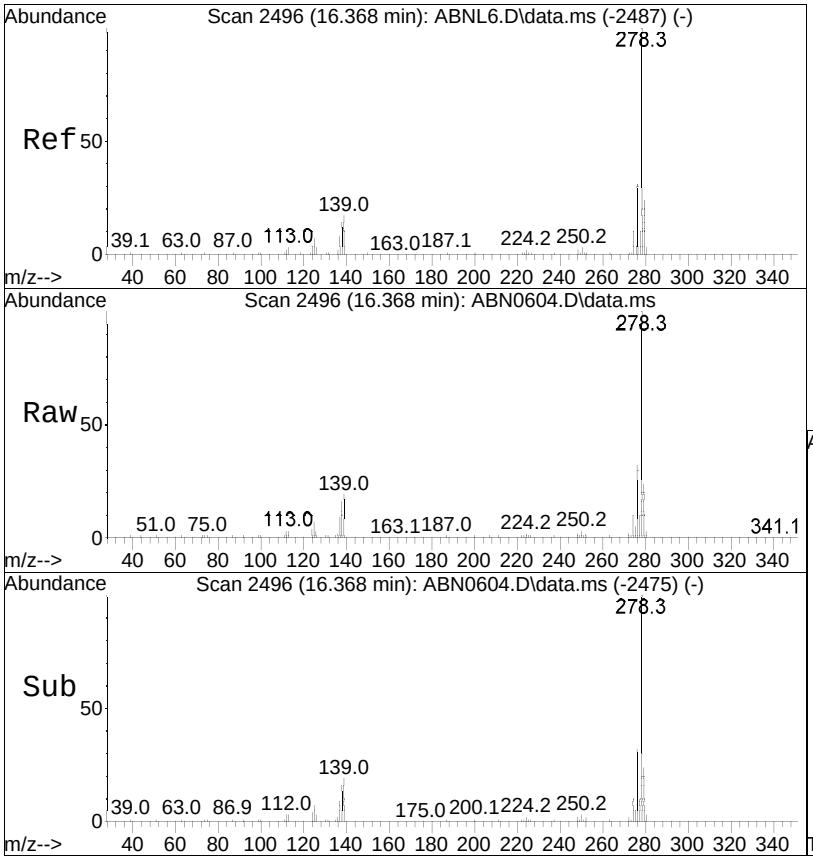


#113
Indeno(1,2,3-cd)pyrene
Concen: 5.21 ug/mL M6
RT: 16.345 min Scan# 2492
Delta R.T. -0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:276 Resp: 280885

Ion	Ratio	Lower	Upper
276	100		
138	36.7	25.1	37.7
277	32.0	18.6	28.0#

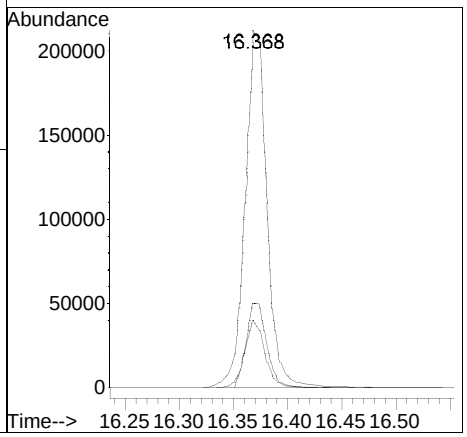


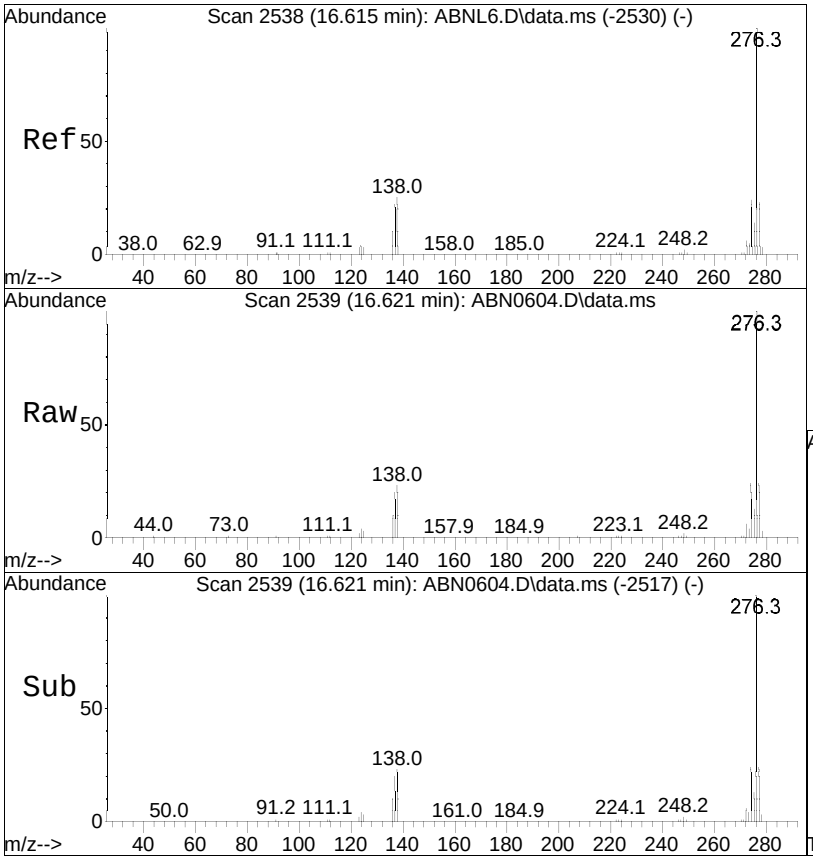


#114
Dibenzo(a,h)anthracene
Concen: 5.46 ug/ml
RT: 16.368 min Scan# 2496
Delta R.T. 0.000 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:278 Resp: 294248

Ion	Ratio	Lower	Upper
278	100		
139	17.3	20.8	31.2#
279	23.2	18.3	27.5

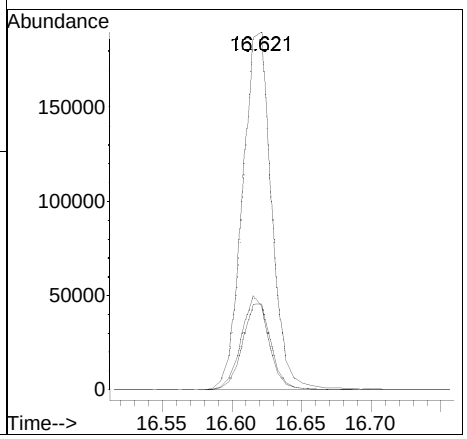




#115
Benzo(ghi)perylene
Concen: 5.20 ug/ml
RT: 16.621 min Scan# 2539
Delta R.T. 0.006 min
Lab File: ABN0604.D
Acq: 4 Jun 2024 10:02 pm

Tgt Ion:276 Resp: 272774

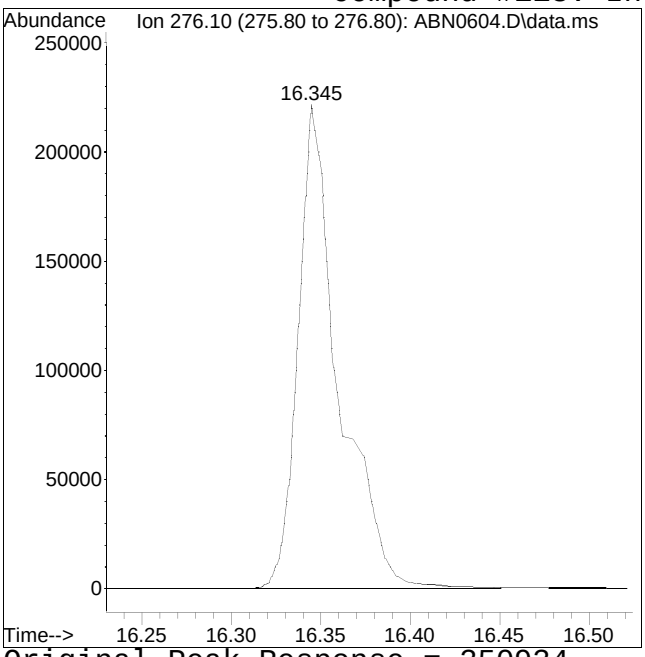
Ion	Ratio	Lower	Upper
276	100		
138	25.1	29.2	43.8#
277	24.0	18.8	28.2



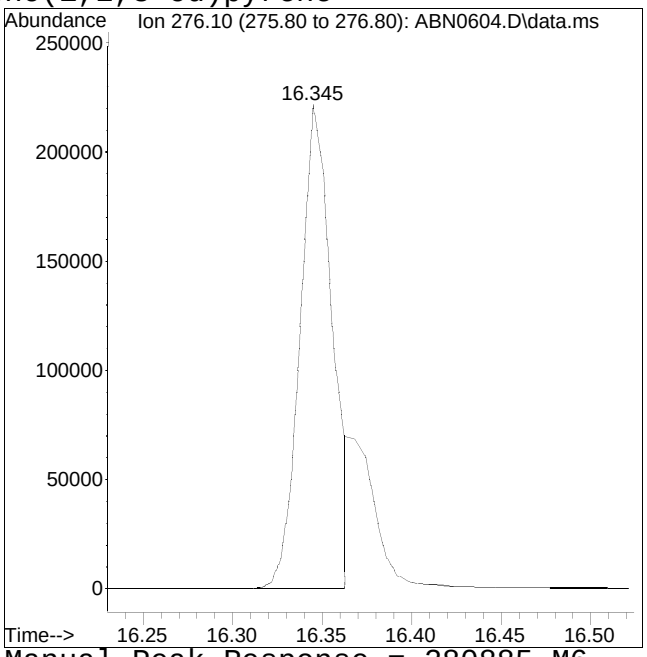
Manual Integration Report

Data Path : I:\8270\SV107\240604RVT\ QMethod : FS240602SV107RVT.m
Data File : ABN0604.D Operator : SV107:sz
Date Inj'd : 6/4/2024 10:02 pm Instrument : SV107
Sample : wg1929711-3,32,,ABN LVI CCQuant Date : 6/4/2024 10:22 pm

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 350934



Manual Peak Response = 280885 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240604RVT\
Data File : AP90604.D
Acq On : 4 Jun 2024 10:27 pm
Operator : SV107:sz
Sample : wg1929711-4,32,,AP9 LVI CCV Lot # 10340
Misc : wg1929711,,ical21169
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jun 04 22:48:56 2024
Quant Method : I:\8270\SV107\240604RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 22:49:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	113	0.00
28	T	Benzaldehyde		1.024	1.034	-1.0	122	0.00
29	T	Acetophenone		1.770	1.817	-2.7	121	0.00
30	T	m-Toluidine		1.599	1.808	-13.1	125	0.00
31	T	2-Chloroaniline		1.546	1.612	-4.3	121	0.00
54	I	IS2_Naphthalene-d8		1.000	1.000	0.0	114	0.00
55	T	a-Terpineol		0.276	0.285	-3.3	126	0.00
56	T	3-Chloroaniline		0.147	0.149	-1.4	122	0.00
57	T	2,6-Dichlorophenol		0.290	0.307	-5.9	125	0.00
58	T	1-chloro-2-nitrobenzene		0.121	0.135	-11.6	139	0.00
59	T	Caprolactam		0.149	0.150	-0.7	121	0.00
60	T	1,2,4,5-Tetrachlorobenzene		0.402	0.409	-1.7	127	0.00
61	T	Biphenyl		0.929	0.937	-0.9	125	0.00
82	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	120	0.00
83	T	Dichloran	*	5.000	4.955	0.9	141	0.00
84	T	Pentachloronitrobenzene	*	5.000	5.149	-3.0	138	0.00
97	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	118	0.00
98	T	Diphenamid		0.445	0.452	-1.6	124	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240604RVT\
Data File : AP90604.D
Acq On : 4 Jun 2024 10:27 pm
Operator : SV107:sz
Sample : wg1929711-4,32,,AP9 LVI CCV Lot # 10340
Misc : wg1929711,,ical21169
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jun 04 22:48:56 2024
Quant Method : I:\8270\SV107\240604RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 22:49:13 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.534	152	50356	4.000	ug/ml		0.00
54) IS2_Naphthalene-d8	7.957	136	193831	4.000	ug/ml		0.00
82) IS2_Acenaphthene-d10	9.727	164	119793	4.000	ug/ml		0.00
97) IS2_Phenanthrene-d10	11.169	188	254681	4.000	ug/ml	#	0.00
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.963	105	65075	5.049	ug/ml		100
29) Acetophenone	7.022	105	114366	5.132	ug/ml	#	84
30) m-Toluidine	7.122	106	113795	5.653	ug/ml		95
31) 2-Chloroaniline	7.528	127	101471	5.212	ug/ml		94
55) a-Terpineol	8.022	59	69075	5.157	ug/ml	#	78
56) 3-Chloroaniline	8.039	65	36160	5.063	ug/ml		91
57) 2,6-Dichlorophenol	8.063	162	74368	5.293	ug/ml	#	87
58) 1-chloro-2-nitrobenzene	8.333	111	32808	5.588	ug/ml	#	1
59) Caprolactam	8.369	55	36379	5.034	ug/ml	#	70
60) 1,2,4,5-Tetrachloroben...	8.869	216	99066	5.085	ug/ml		97
61) Biphenyl	9.175	154	226986	5.042	ug/ml		99
83) Dichloran	10.863	206	19936	4.955	ug/ml	#	73
84) Pentachloronitrobenzene	11.016	237	23053	5.149	ug/ml	#	83
98) Diphenamid	12.080	167	143897	5.079	ug/ml	#	82

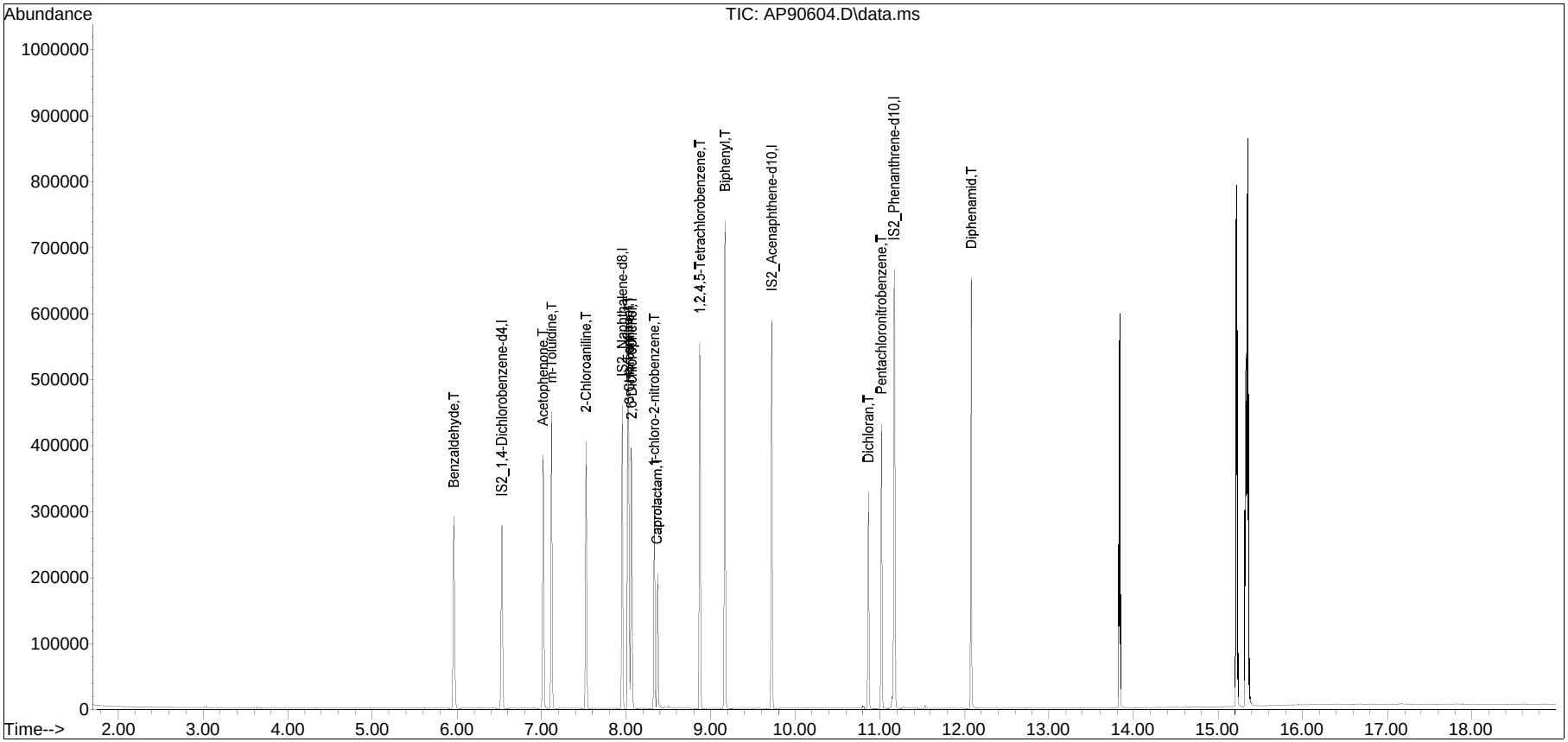
(#) = qualifier out of range (m) = manual integration (+) = signals summed

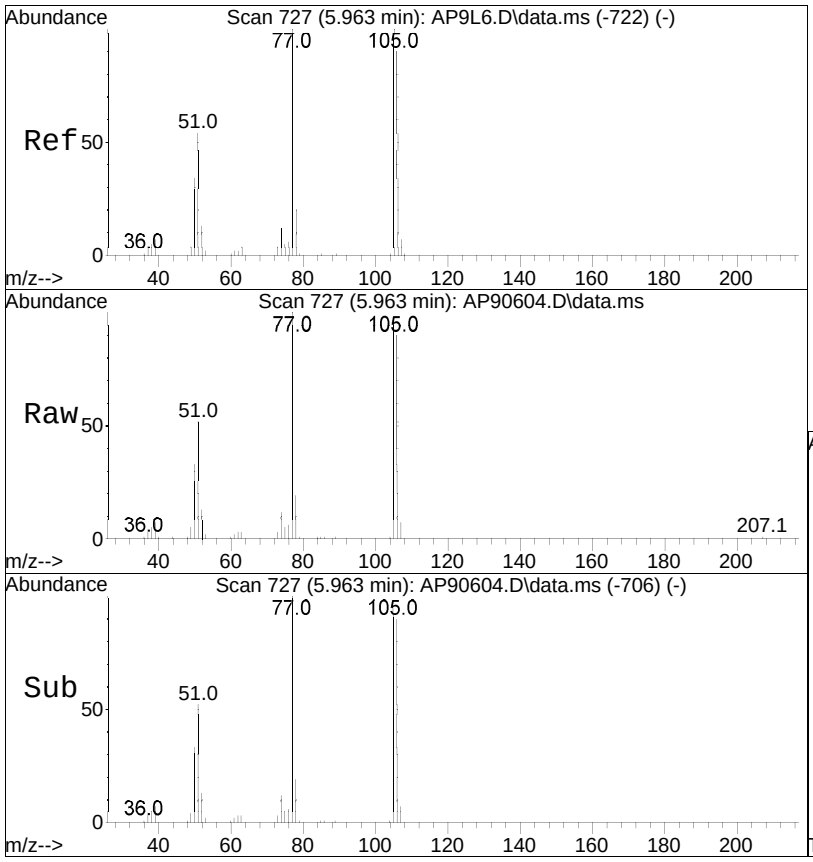
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240604RVT\
Data File : AP90604.D
Acq On : 4 Jun 2024 10:27 pm
Operator : SV107:sz
Sample : wg1929711-4,32,,AP9 LVI CCV Lot # 10340
Misc : wg1929711,,ical21169
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jun 04 22:48:56 2024
Quant Method : I:\8270\SV107\240604RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 22:49:13 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

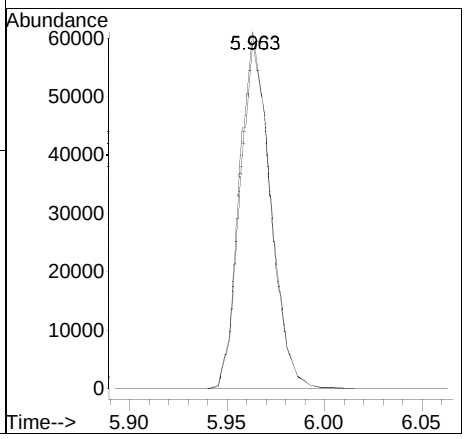


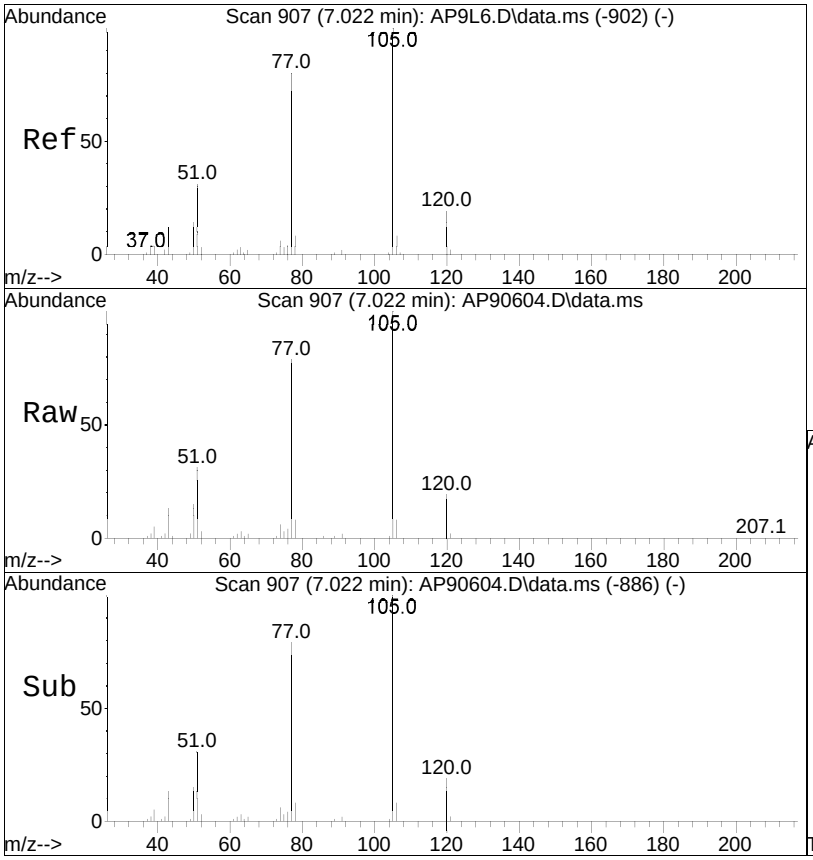


#28
Benzaldehyde
Concen: 5.05 ug/ml
RT: 5.963 min Scan# 727
Delta R.T. 0.000 min
Lab File: AP90604.D
Acq: 4 Jun 2024 10:27 pm

Tgt Ion:105 Resp: 65075

Ion	Ratio	Lower	Upper
105	100		
77	102.5	82.2	123.4

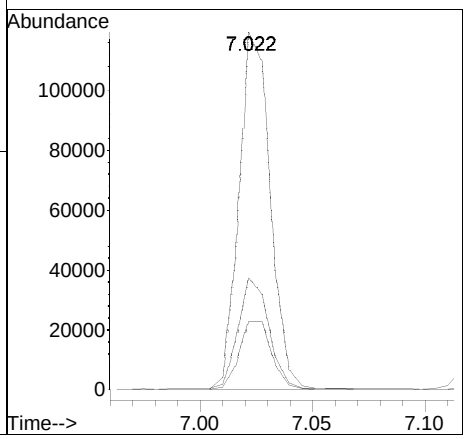


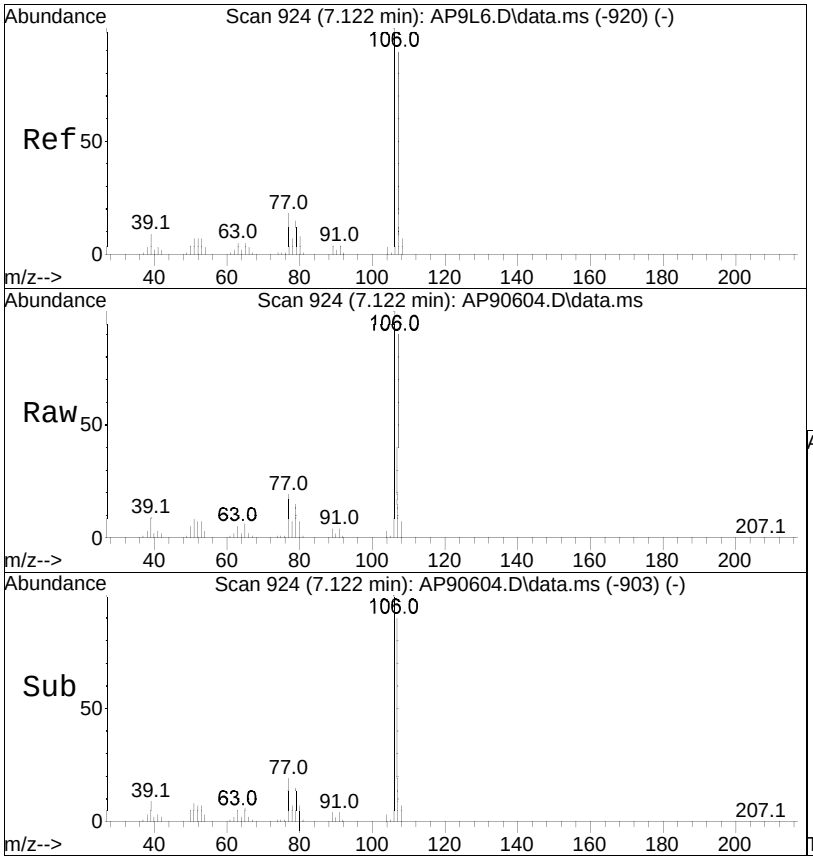


#29
Acetophenone
Concen: 5.13 ug/ml
RT: 7.022 min Scan# 907
Delta R.T. 0.000 min
Lab File: AP90604.D
Acq: 4 Jun 2024 10:27 pm

Tgt Ion:105 Resp: 114366

Ion	Ratio	Lower	Upper
105	100		
120	19.9	20.5	30.7#
51	31.5	34.9	52.3#

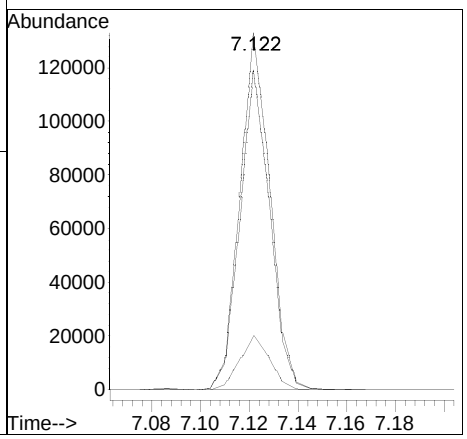


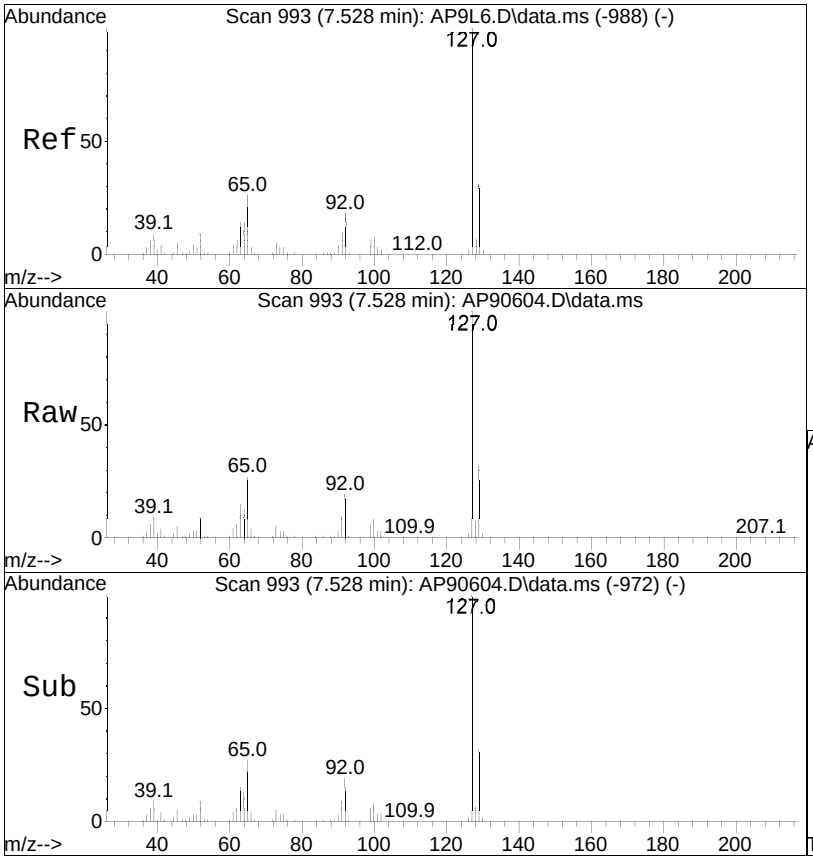


#30
m-Toluidine
Concen: 5.65 ug/ml
RT: 7.122 min Scan# 924
Delta R.T. 0.000 min
Lab File: AP90604.D
Acq: 4 Jun 2024 10:27 pm

Tgt Ion:106 Resp: 113795

Ion	Ratio	Lower	Upper
106	100		
107	88.8	75.7	113.5
79	15.2	11.8	17.8

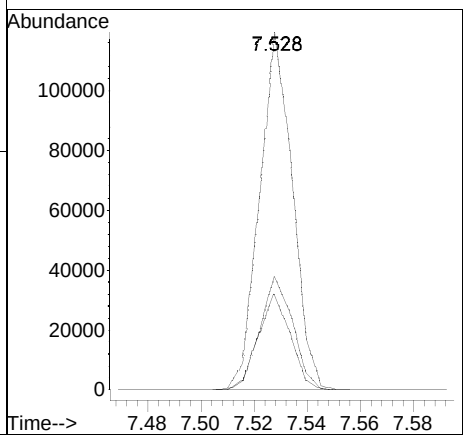


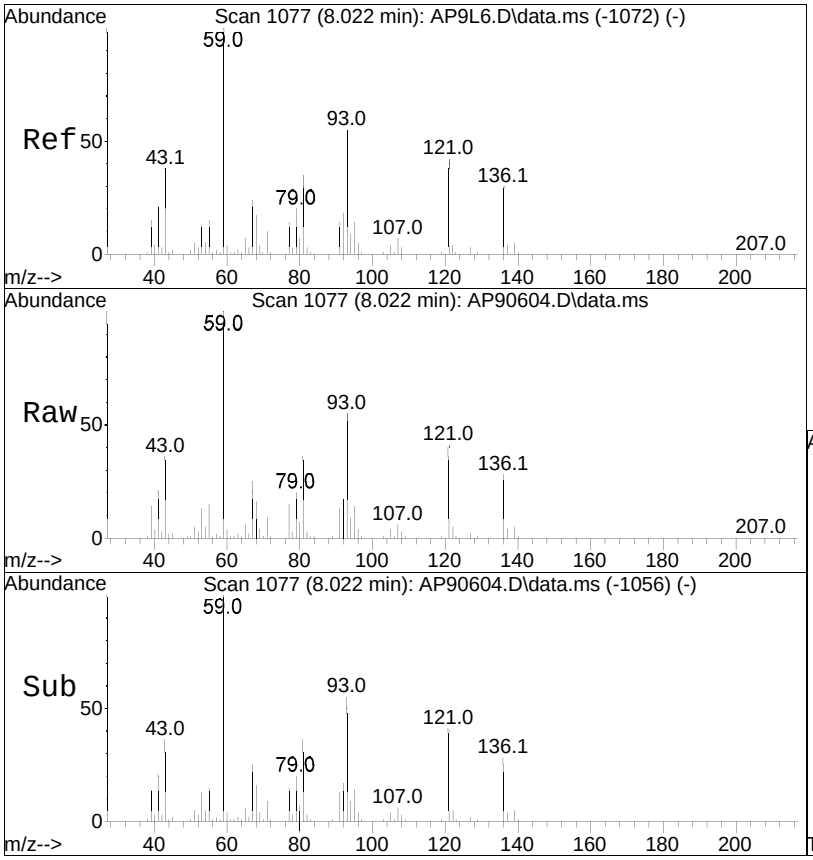


#31
2-Chloroaniline
Concen: 5.21 ug/ml
RT: 7.528 min Scan# 993
Delta R.T. 0.000 min
Lab File: AP90604.D
Acq: 4 Jun 2024 10:27 pm

Tgt Ion:127 Resp: 101471

Ion	Ratio	Lower	Upper
127	100		
129	31.9	25.9	38.9
65	26.6	26.3	39.5

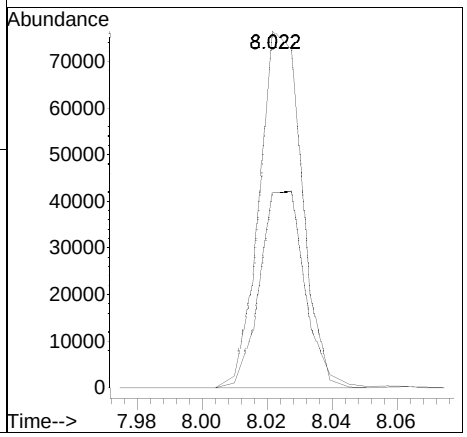


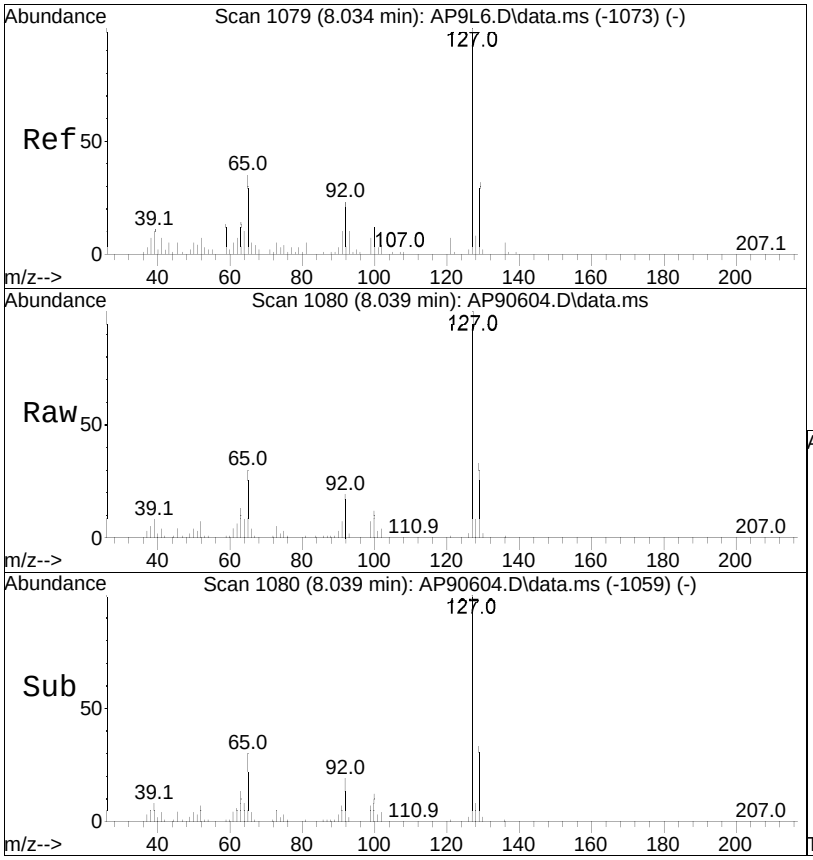


#55
a-Terpineol
Concen: 5.16 ug/ml
RT: 8.022 min Scan# 1077
Delta R.T. 0.000 min
Lab File: AP90604.D
Acq: 4 Jun 2024 10:27 pm

Tgt Ion: 59 Resp: 69075

Ion	Ratio	Lower	Upper
59	100		
93	58.7	35.6	53.4#

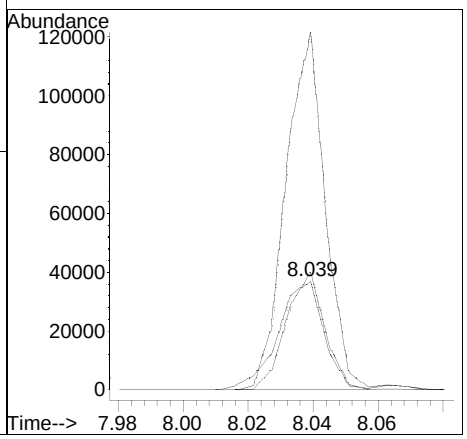


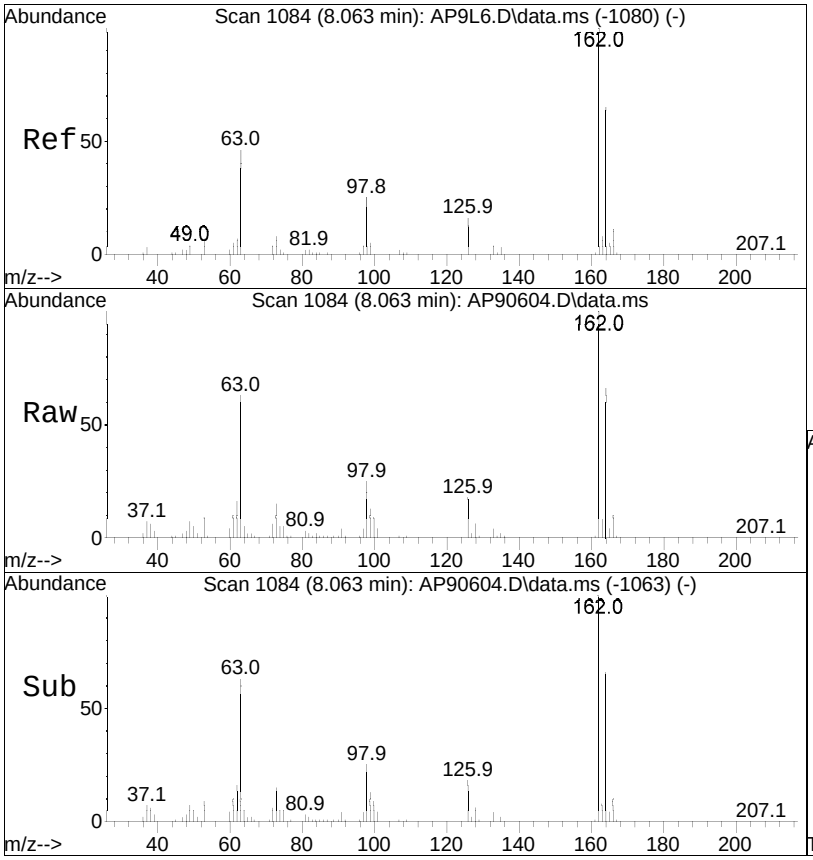


#56
3-Chloroaniline
Concen: 5.06 ug/ml
RT: 8.039 min Scan# 1080
Delta R.T. 0.000 min
Lab File: AP90604.D
Acq: 4 Jun 2024 10:27 pm

Tgt Ion: 65 Resp: 36160

Ion	Ratio	Lower	Upper
65	100		
127	284.4	243.2	364.8
129	92.0	78.8	118.2

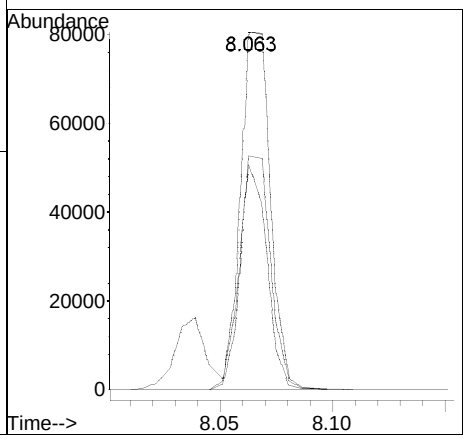


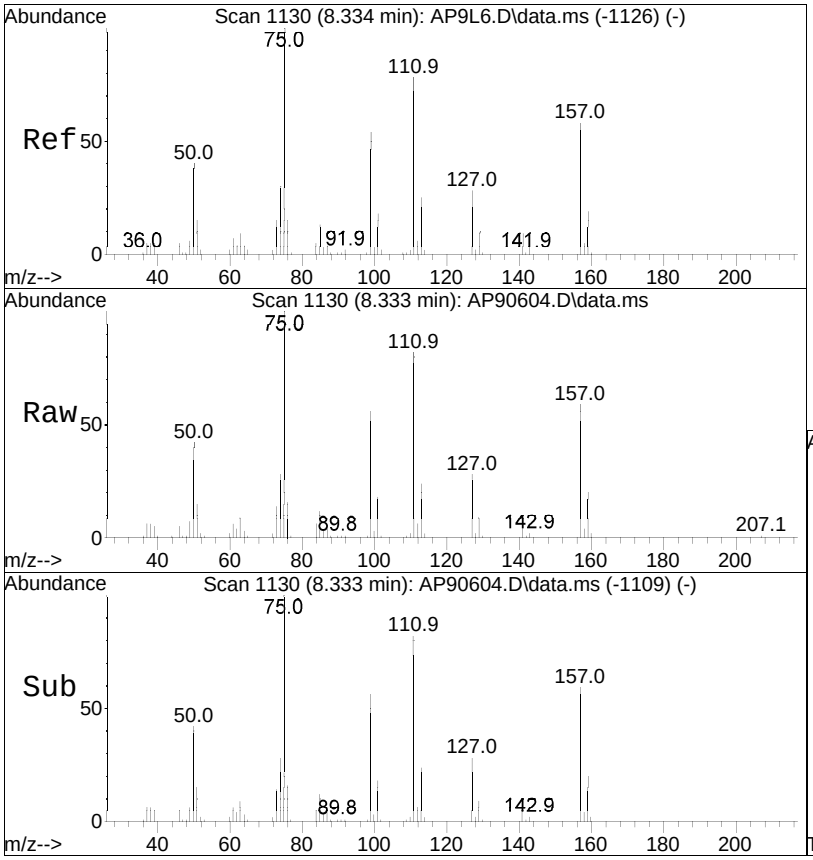


#57
2,6-Dichlorophenol
Concen: 5.29 ug/ml
RT: 8.063 min Scan# 1084
Delta R.T. 0.000 min
Lab File: AP90604.D
Acq: 4 Jun 2024 10:27 pm

Tgt Ion:162 Resp: 74368

Ion	Ratio	Lower	Upper
162	100		
164	65.6	51.1	76.7
63	57.7	60.8	91.2#

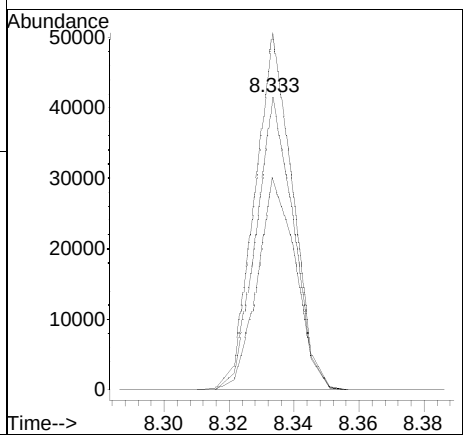


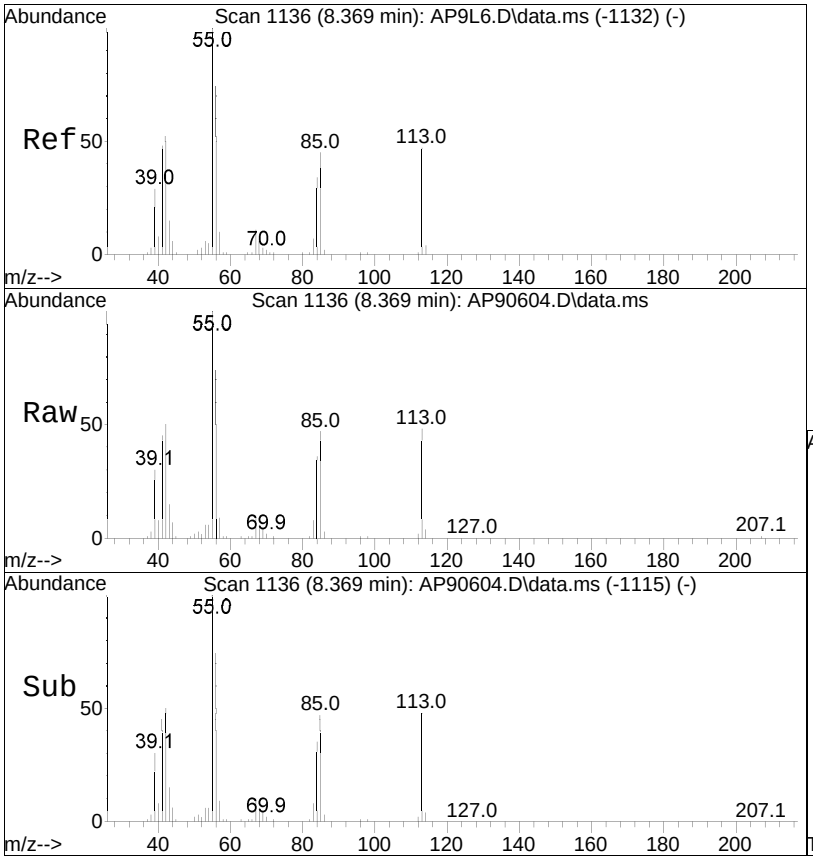


#58
1-chloro-2-nitrobenzene
Concen: 5.59 ug/ml
RT: 8.333 min Scan# 1130
Delta R.T. 0.000 min
Lab File: AP90604.D
Acq: 4 Jun 2024 10:27 pm

Tgt Ion:111 Resp: 32808

Ion	Ratio	Lower	Upper
111	100		
157	74.8	0.0	0.0#
75	123.9	28.2	42.2#

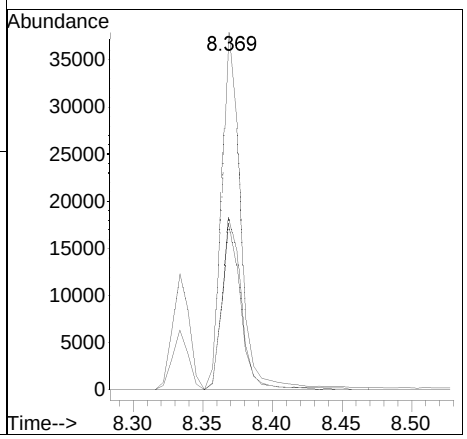


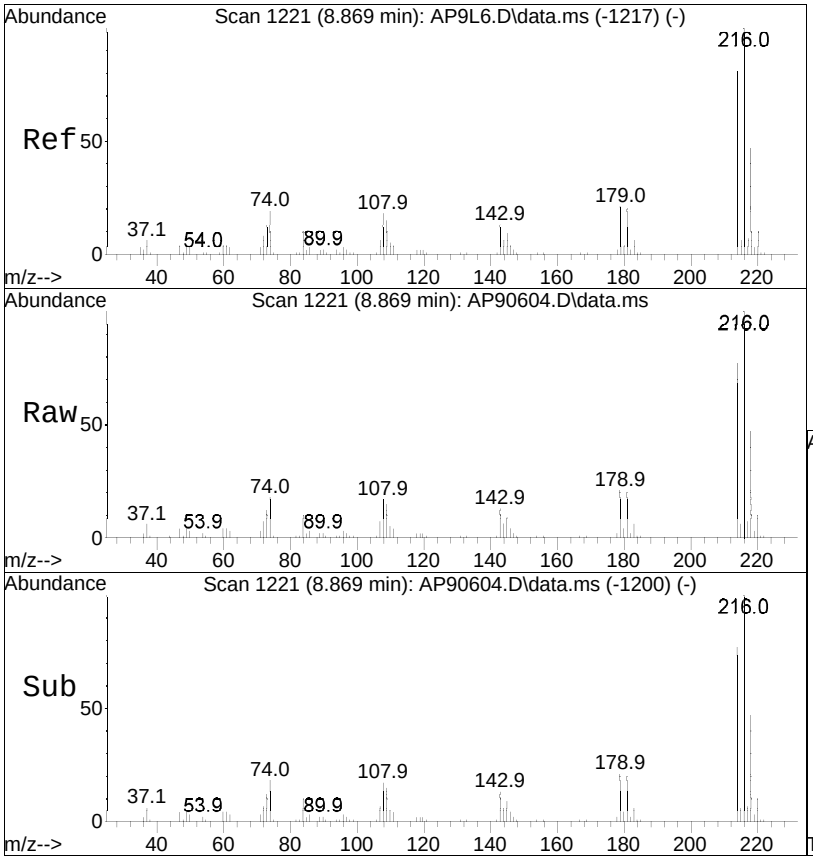


#59
Caprolactam
Concen: 5.03 ug/ml
RT: 8.369 min Scan# 1136
Delta R.T. 0.000 min
Lab File: AP90604.D
Acq: 4 Jun 2024 10:27 pm

Tgt Ion: 55 Resp: 36379

Ion	Ratio	Lower	Upper
55	100		
85	46.6	19.8	29.6#
113	49.0	29.6	44.4#

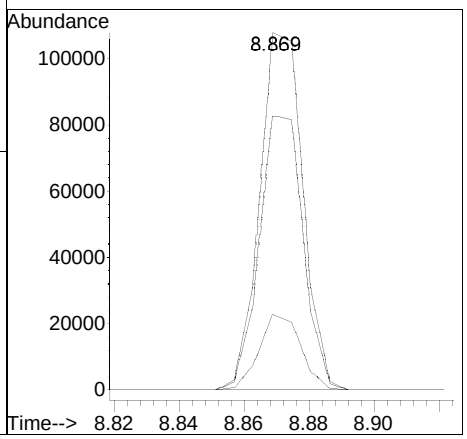


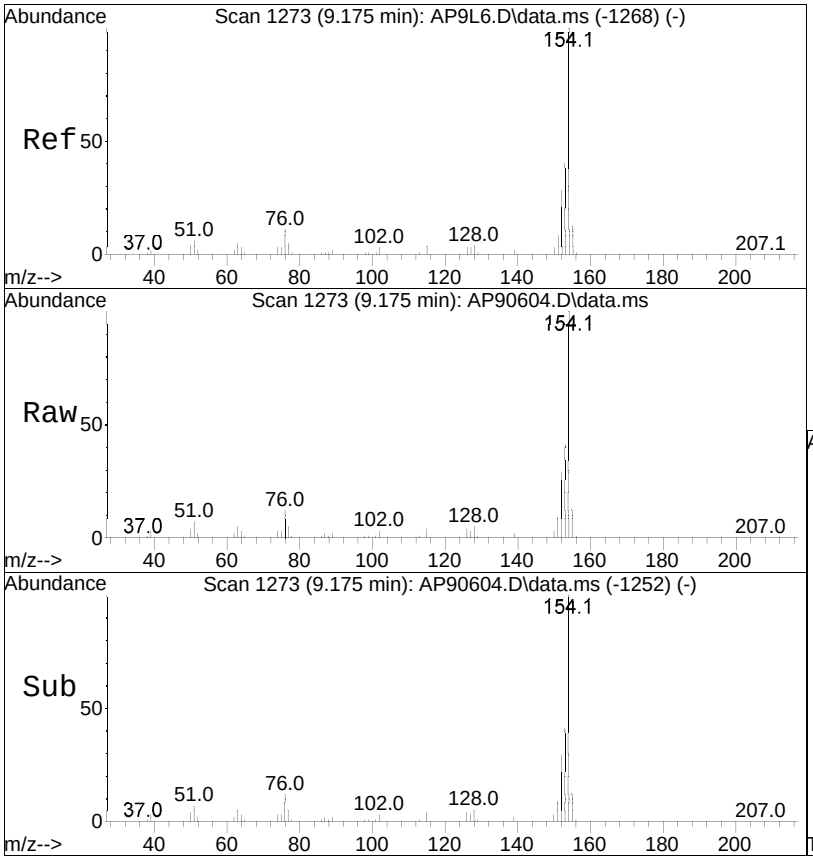


#60
1,2,4,5-Tetrachlorobenzene
Concen: 5.09 ug/ml
RT: 8.869 min Scan# 1221
Delta R.T. 0.000 min
Lab File: AP90604.D
Acq: 4 Jun 2024 10:27 pm

Tgt Ion:216 Resp: 99066

Ion	Ratio	Lower	Upper
216	100		
214	77.6	63.7	95.5
179	20.5	19.0	28.6

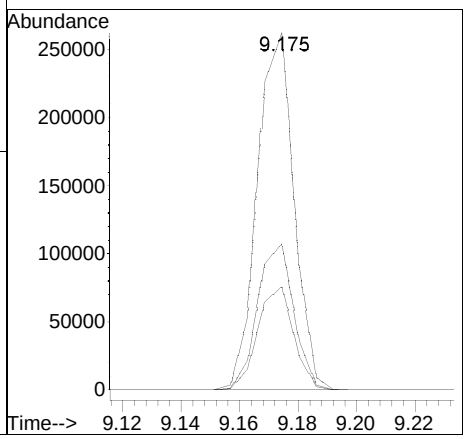


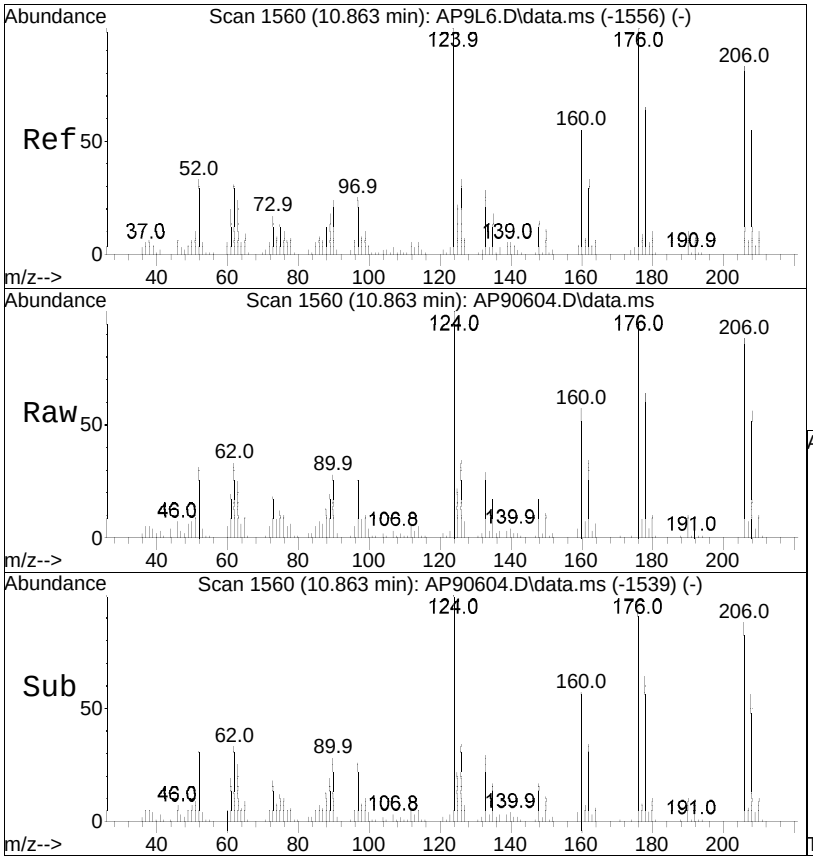


#61
Biphenyl
Concen: 5.04 ug/ml
RT: 9.175 min Scan# 1273
Delta R.T. 0.000 min
Lab File: AP90604.D
Acq: 4 Jun 2024 10:27 pm

Tgt Ion:154 Resp: 226986

Ion	Ratio	Lower	Upper
154	100		
153	40.7	32.3	48.5
152	28.5	22.5	33.7

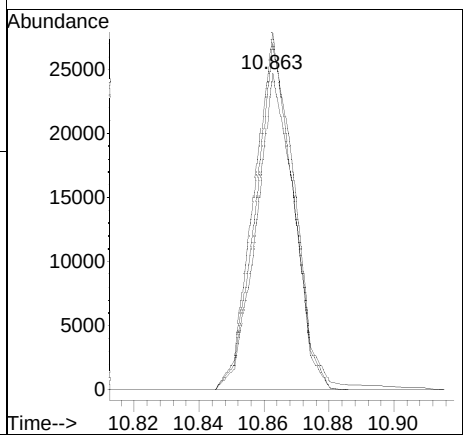


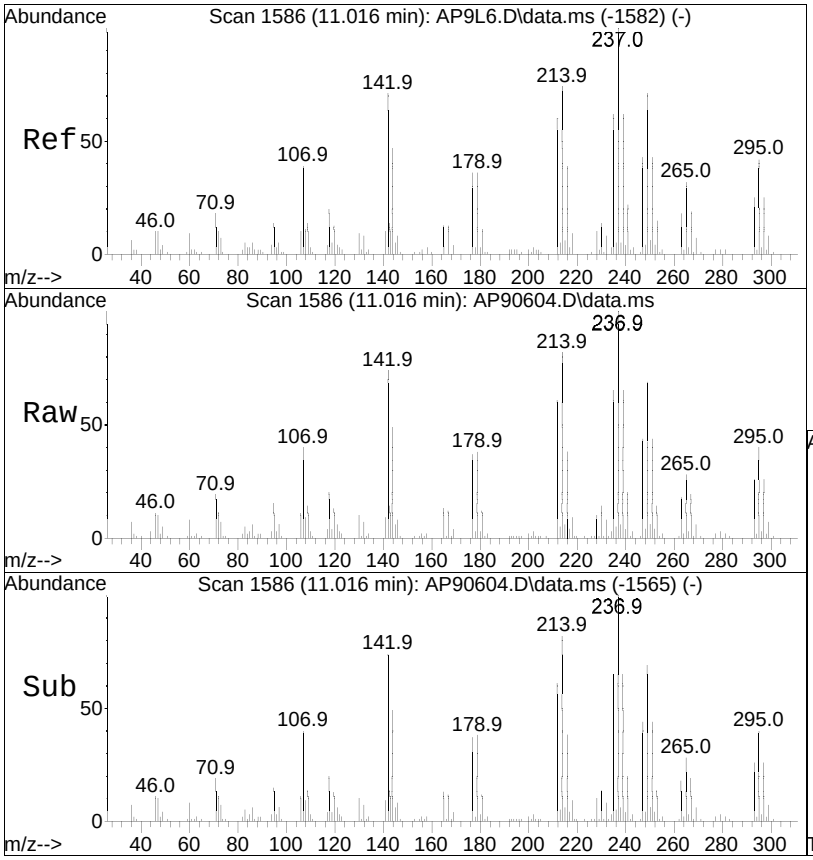


#83
Dichloran
Concen: 4.96 ug/ml
RT: 10.863 min Scan# 1560
Delta R.T. 0.000 min
Lab File: AP90604.D
Acq: 4 Jun 2024 10:27 pm

Tgt Ion:206 Resp: 19936

Ion	Ratio	Lower	Upper
206	100		
176	114.9	104.6	157.0
124	113.2	130.5	195.7#

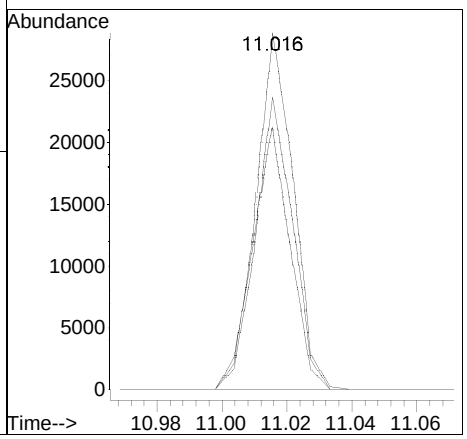


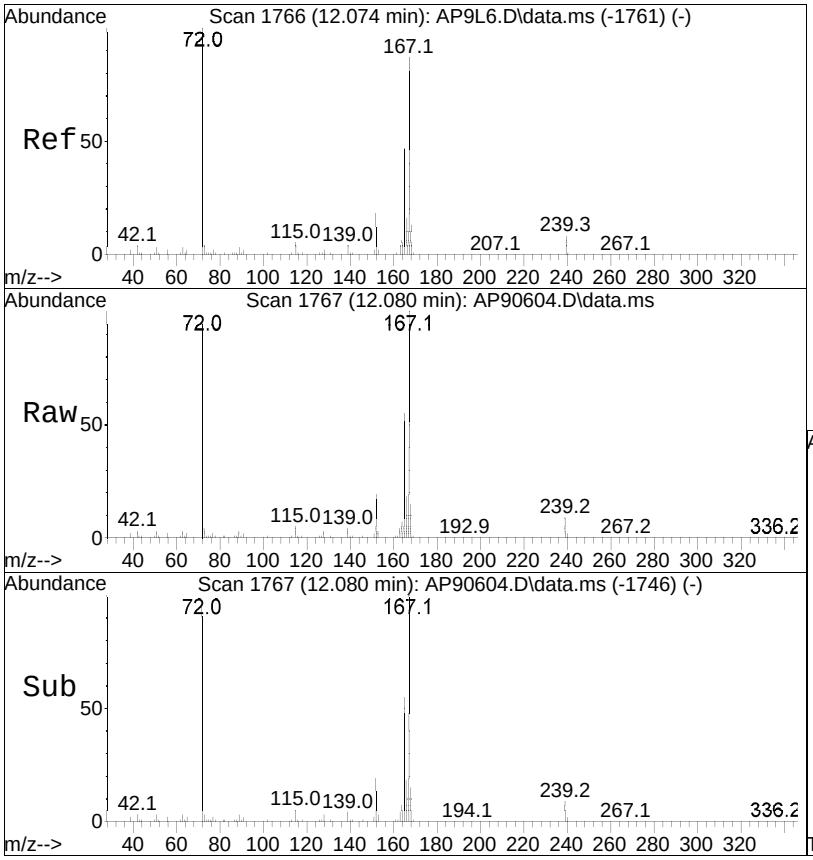


#84
Pentachloronitrobenzene
Concen: 5.15 ug/ml
RT: 11.016 min Scan# 1586
Delta R.T. 0.000 min
Lab File: AP90604.D
Acq: 4 Jun 2024 10:27 pm

Tgt Ion:237 Resp: 23053

Ion	Ratio	Lower	Upper
237	100		
142	73.9	77.0	115.4#
214	81.2	58.2	87.4

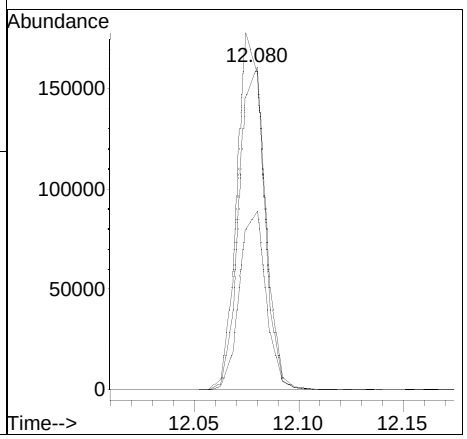




#98
Diphenamid
Concen: 5.08 ug/ml
RT: 12.080 min Scan# 1767
Delta R.T. 0.000 min
Lab File: AP90604.D
Acq: 4 Jun 2024 10:27 pm

Tgt Ion:167 Resp: 143897

Ion	Ratio	Lower	Upper
167	100		
72	109.3	109.7	164.5#
165	56.0	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\SV107\240604RVT\	QMethod	: FS240602SV107RVT.m
Data File	: AP90604.D	Operator	: SV107:sz
Date Inj'd	: 6/4/2024 10:27 pm	Instrument	: SV107
Sample	: wg1929711-4,32,,AP9 LVI CC	Quant Date	: 6/4/2024 10:49 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240604RVT\
Data File : ADP0604.D
Acq On : 4 Jun 2024 10:52 pm
Operator : SV107:sz
Sample : wg1929711-5,32,,ADP LVI CCV Lot # 10751
Misc : wg1929711,,ical21169
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jun 04 23:16:13 2024
Quant Method : I:\8270\SV107\240604RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 23:16:32 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	108	0.00
33	T	n-Decane		1.447	1.273	12.0	103	0.00
85	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	110	0.00
86	T	Atrazine		0.347	0.330	4.9	102	0.00
99	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	111	0.00
100	T	n-Octadecane		0.393	0.366	6.9	102	0.00
101	T	Parathion	*	5.000	4.065	18.7	98	0.00
102	T	3,3'-Dimethylbenzidine		0.696	0.563	19.1	93	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240604RVT\
Data File : ADP0604.D
Acq On : 4 Jun 2024 10:52 pm
Operator : SV107:sz
Sample : wg1929711-5,32,,ADP LVI CCV Lot # 10751
Misc : wg1929711,,ical21169
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jun 04 23:16:13 2024
Quant Method : I:\8270\SV107\240604RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 23:16:32 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	52597	4.000	ug/ml	0.00
85) IS3_Acenaphthene-d10	9.728	164	119476	4.000	ug/ml	0.00
99) IS3_Phenanthrene-d10	11.169	188	258227	4.000	ug/ml	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	83668	4.397	ug/ml#	44
86) Atrazine	10.933	200	49266	4.752	ug/ml	95
100) n-Octadecane	11.139	57	118250	4.663	ug/ml#	1
101) Parathion	11.957	109	17721	4.065	ug/ml	96
102) 3,3'-Dimethylbenzidine	13.257	212	181676	4.043	ug/ml	98

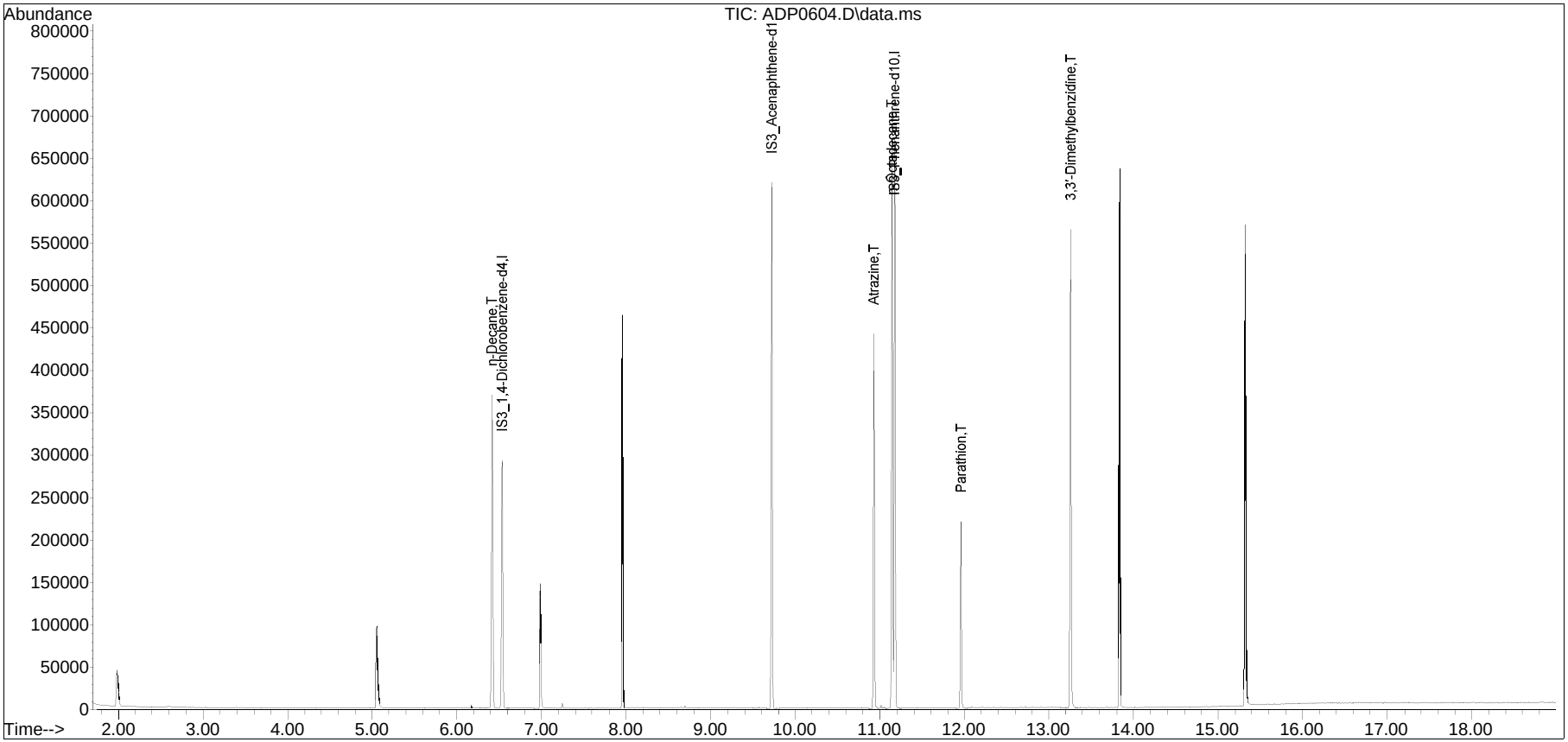
(#) = qualifier out of range (m) = manual integration (+) = signals summed

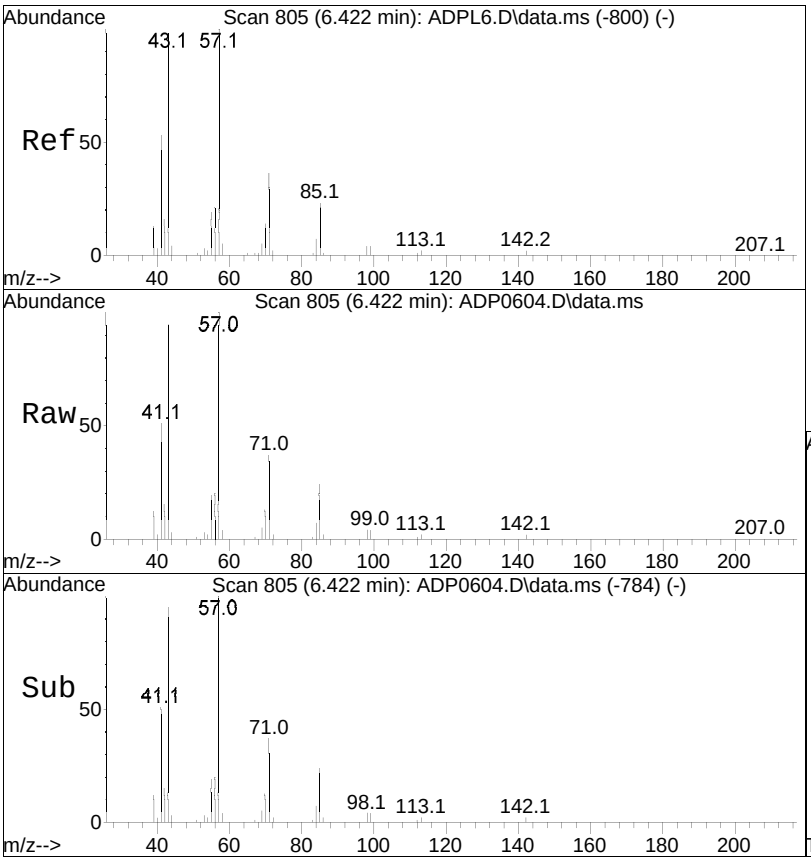
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240604RVT\
Data File : ADP0604.D
Acq On : 4 Jun 2024 10:52 pm
Operator : SV107:sz
Sample : wg1929711-5,32,,ADP LVI CCV Lot # 10751
Misc : wg1929711,,ical21169
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jun 04 23:16:13 2024
Quant Method : I:\8270\SV107\240604RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 23:16:32 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

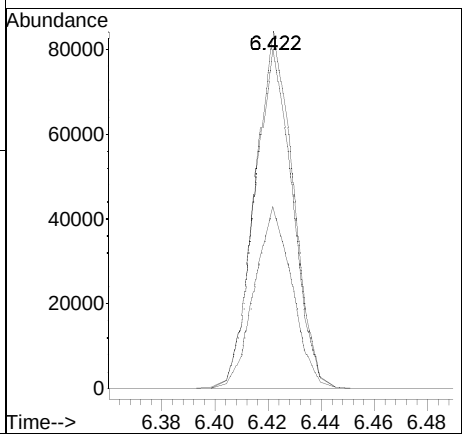


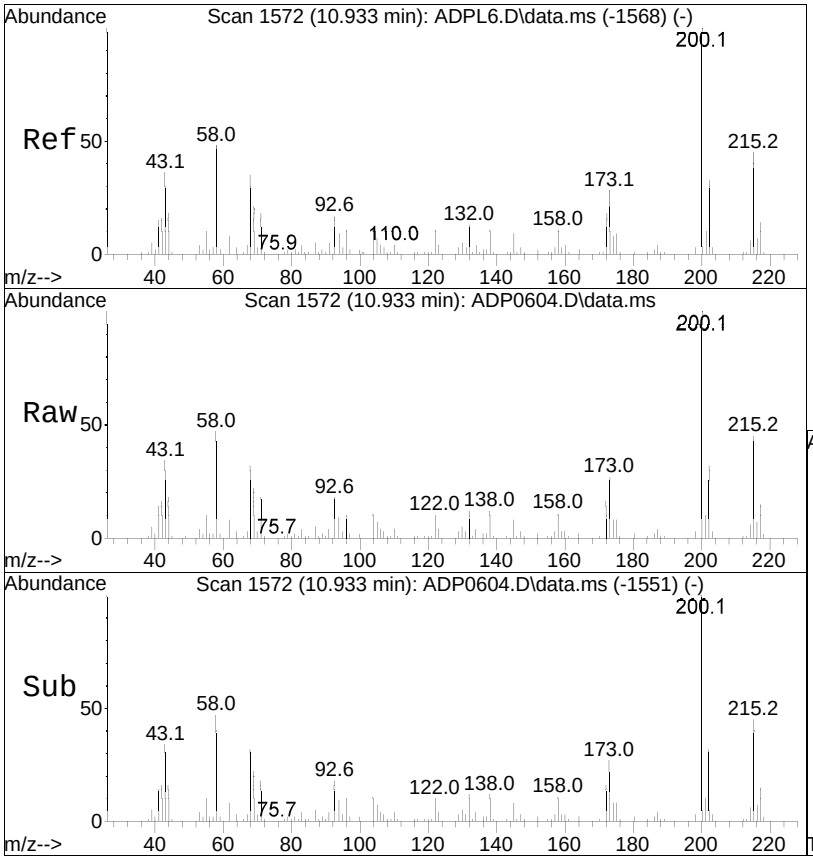


#33
n-Decane
Concen: 4.40 ug/ml
RT: 6.422 min Scan# 805
Delta R.T. 0.000 min
Lab File: ADP0604.D
Acq: 4 Jun 2024 10:52 pm

Tgt Ion: 57 Resp: 83668

Ion	Ratio	Lower	Upper
57	100		
43	94.7	0.2	0.2#
41	50.4	0.2	0.2#

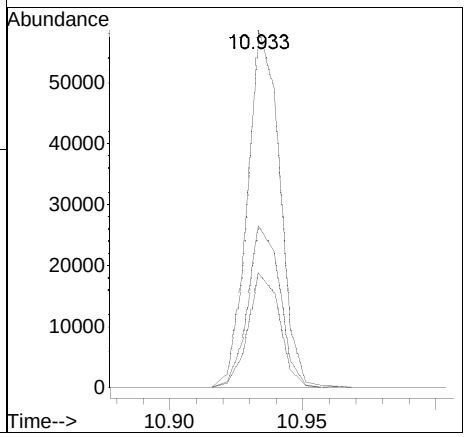


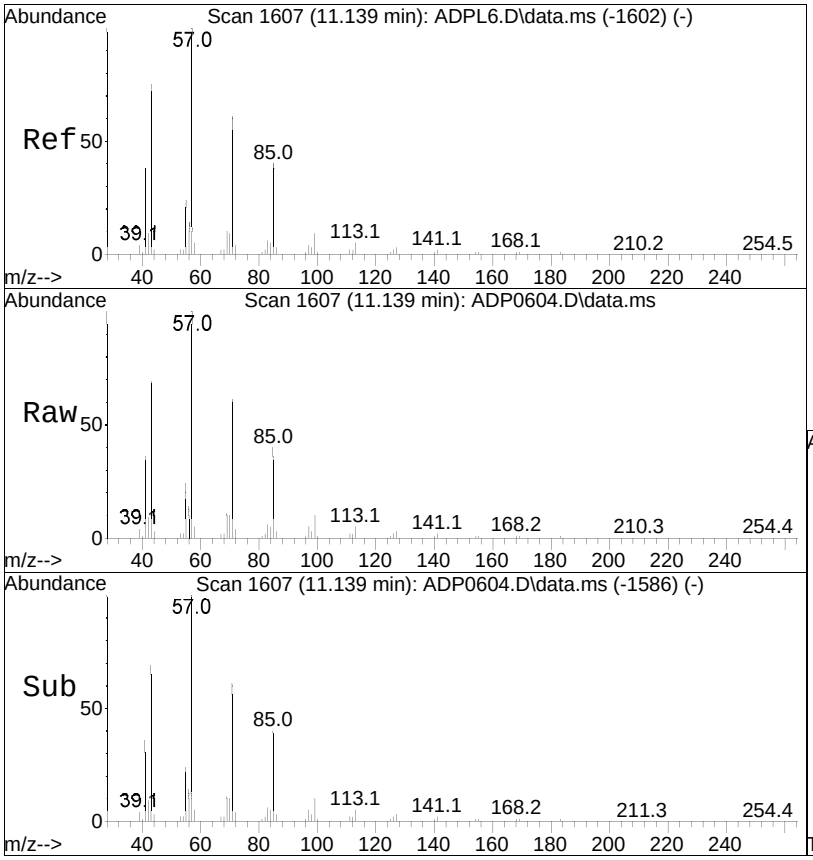


#86
Atrazine
Concen: 4.75 ug/ml
RT: 10.933 min Scan# 1572
Delta R.T. 0.000 min
Lab File: ADP0604.D
Acq: 4 Jun 2024 10:52 pm

Tgt Ion:200 Resp: 49266

Ion	Ratio	Lower	Upper
200	100		
202	31.5	25.8	38.6
215	45.1	40.2	60.4

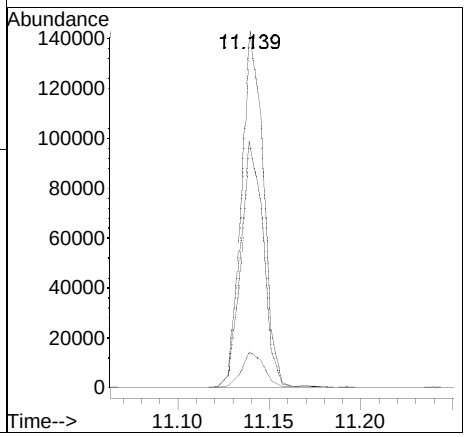


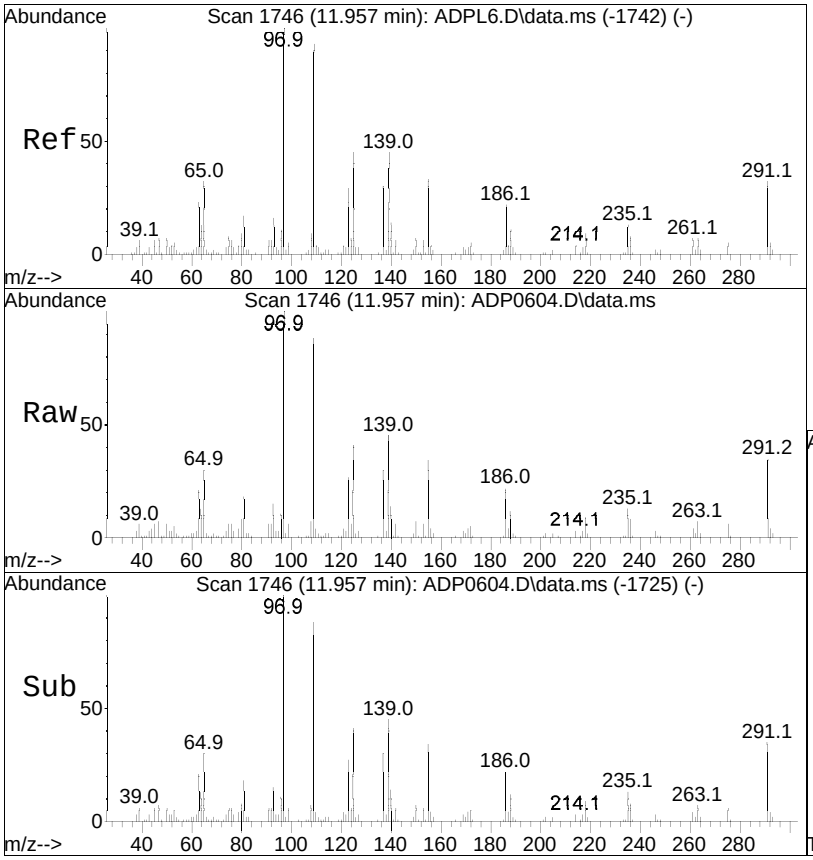


#100
n-Octadecane
Concen: 4.66 ug/ml
RT: 11.139 min Scan# 1607
Delta R.T. 0.000 min
Lab File: ADP0604.D
Acq: 4 Jun 2024 10:52 pm

Tgt Ion: 57 Resp: 118250

Ion	Ratio	Lower	Upper
57	100		
43	70.5	9.0	13.6#
70	10.3	0.2	0.2#

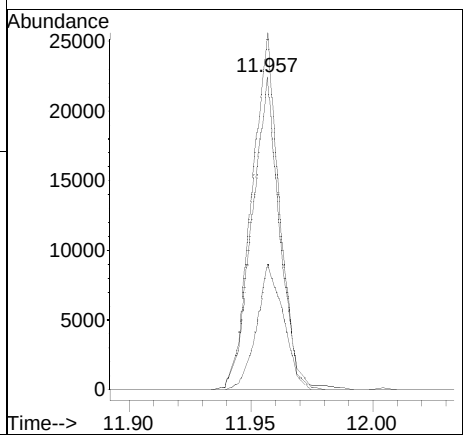


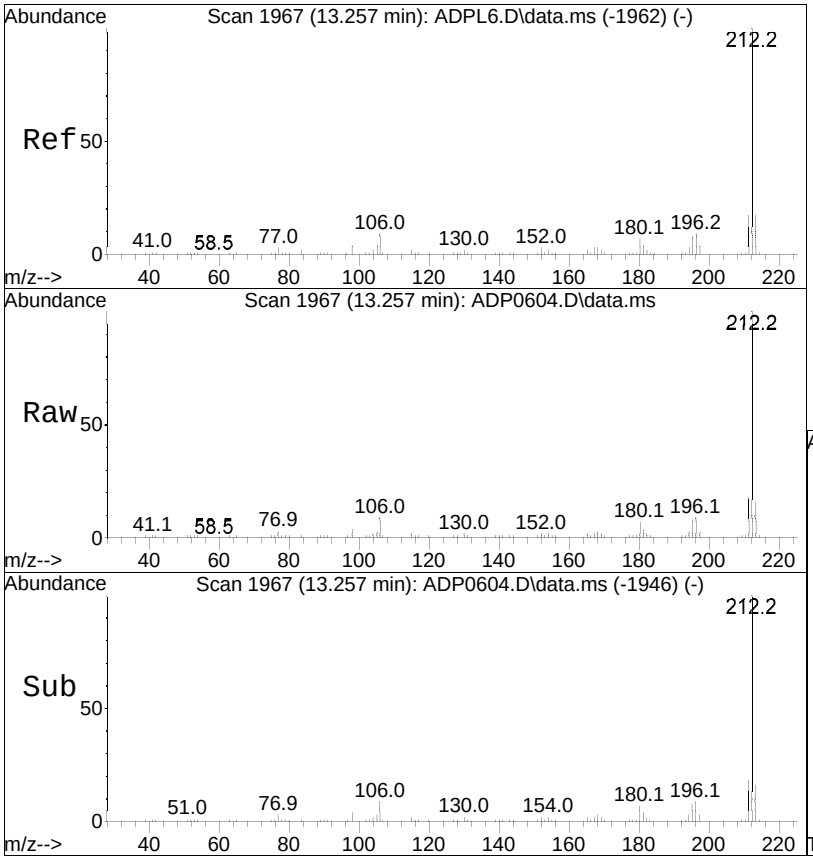


#101
Parathion
Concen: 4.07 ug/ml
RT: 11.957 min Scan# 1746
Delta R.T. 0.000 min
Lab File: ADP0604.D
Acq: 4 Jun 2024 10:52 pm

Tgt Ion:109 Resp: 17721

Ion	Ratio	Lower	Upper
109	100		
97	111.9	87.4	131.2
291	38.7	34.2	51.2

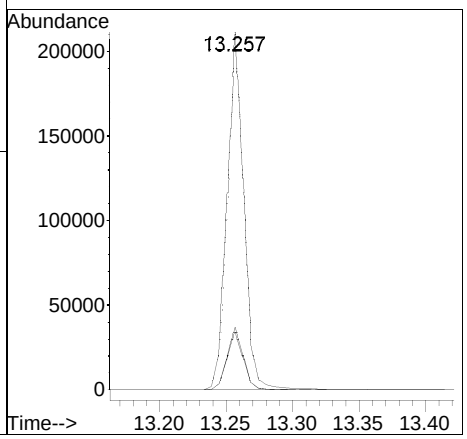




#102
3,3'-Dimethylbenzidine
Concen: 4.04 ug/ml
RT: 13.257 min Scan# 1967
Delta R.T. 0.000 min
Lab File: ADP0604.D
Acq: 4 Jun 2024 10:52 pm

Tgt Ion:212 Resp: 181676

Ion	Ratio	Lower	Upper
212	100		
211	17.3	12.9	19.3
213	16.2	13.2	19.8



Manual Integration Report

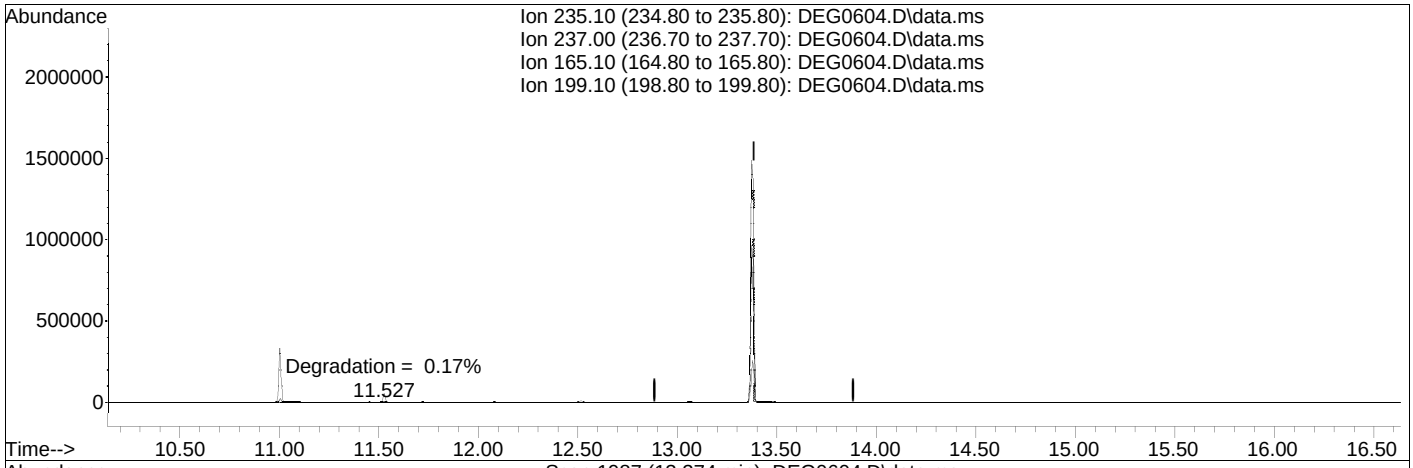
Data Path	: I:\8270\SV107\240604RVT\	QMethod	: FS240602SV107RVT.m
Data File	: ADP0604.D	Operator	: SV107:sz
Date Inj'd	: 6/4/2024 10:52 pm	Instrument	: SV107
Sample	: wg1929711-5,32,,ADP LVI CC	Quant Date	: 6/4/2024 11:16 pm

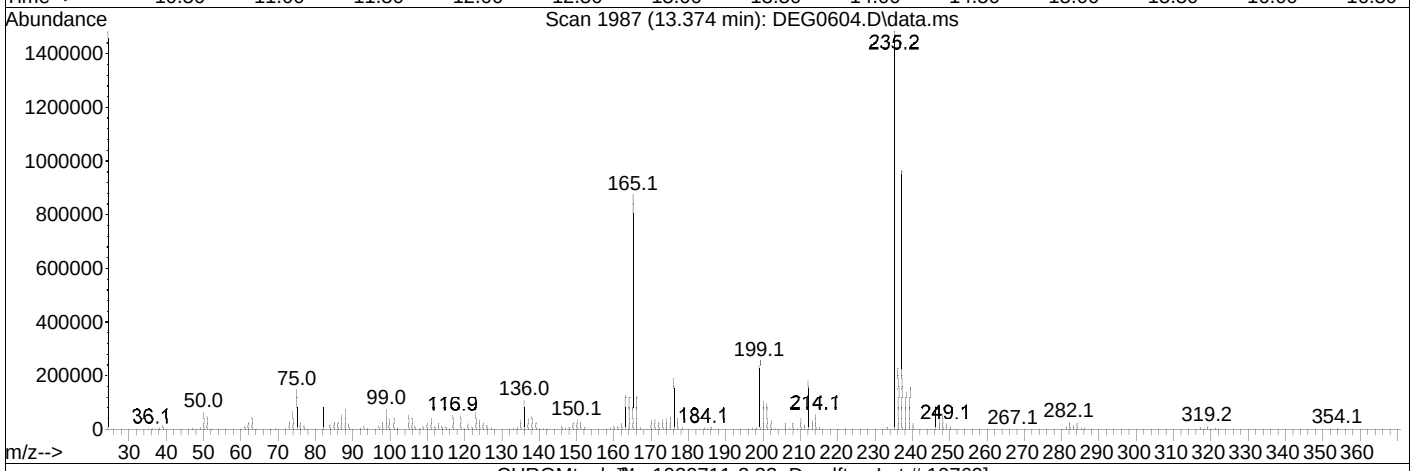
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240604RVT\
Data File : DEG0604.D
Acq On : 4 Jun 2024 9:36 pm
Operator : SV107:sz
Sample : wg1929711-2,32,,Degdftpp Lot # 10769
Misc : wg1929711,,ical21169
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 04 21:57:48 2024
Quant Method : I:\8270\SV107\240604RVT\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [wg1929711-2,32,,Degdftpp Lot # 10769]

(6) DDT (T)

13.374min (-0.012) 234.05

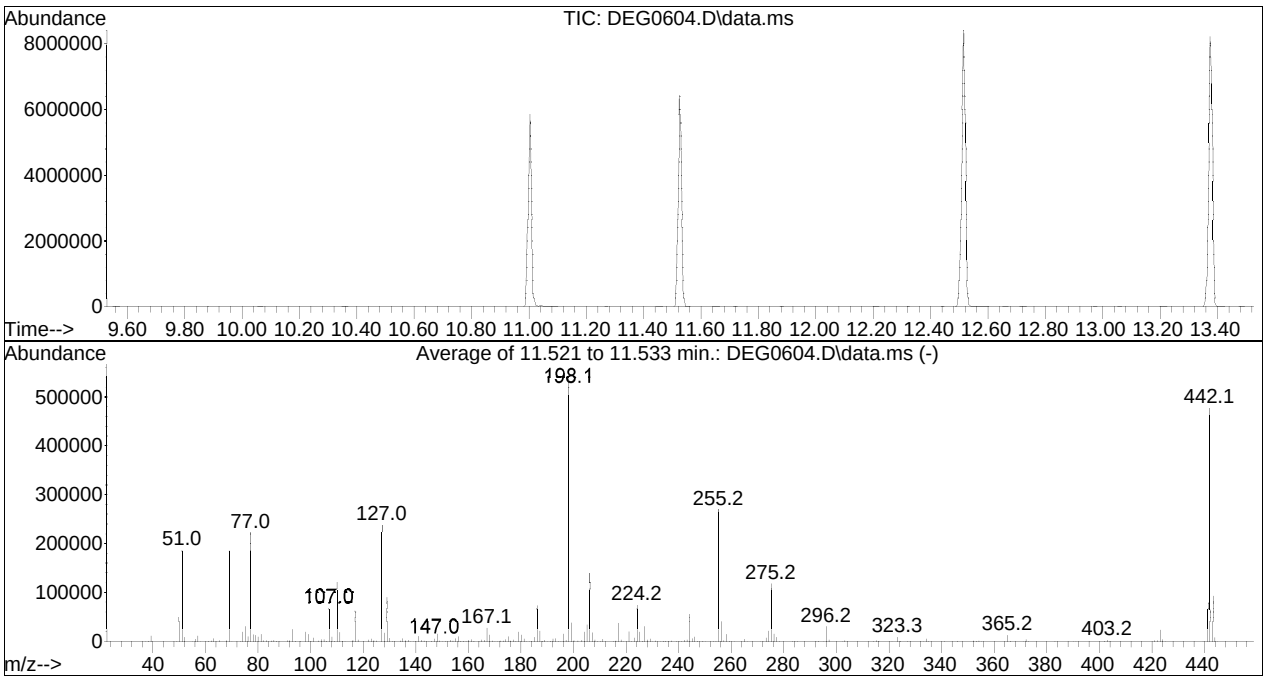
response 1426702

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	64.30	64.37
165.10	55.40	55.53
199.10	16.20	16.62

Data Path : I:\8270\SV107\240604RVT\
Data File : DEG0604.D
Acq On : 4 Jun 2024 9:36 pm
Operator : SV107: ASK
Sample : WG1929711-1,32,,Degdftpp Lot # 10769
Misc : WG1929711,,ical21169
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV107\240604RVT\FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Jun 04 22:49:12 2024



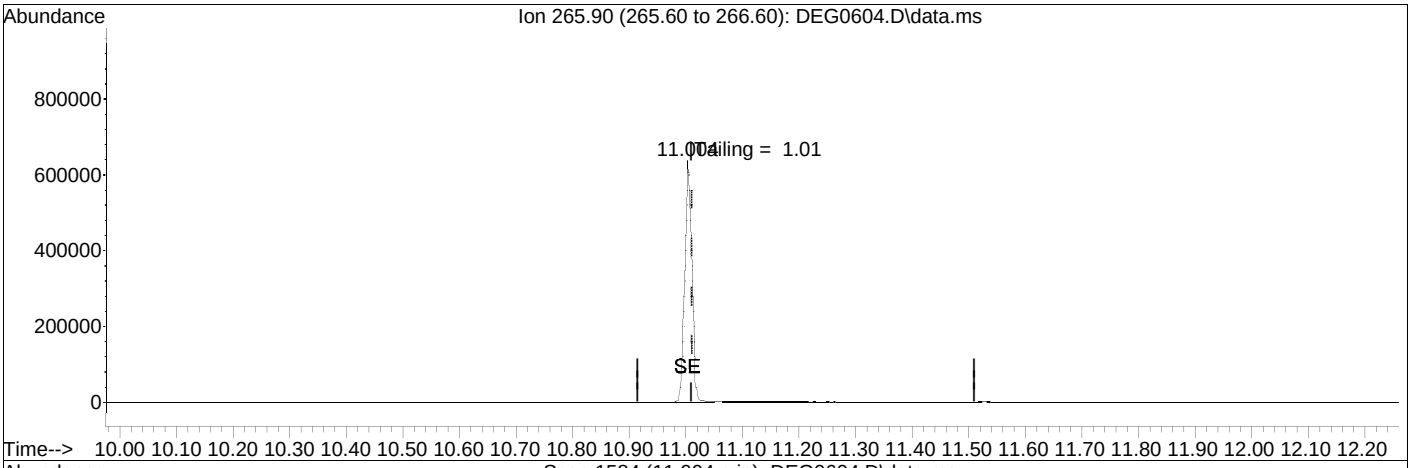
Spectrum Information: Average of 11.521 to 11.533 min.

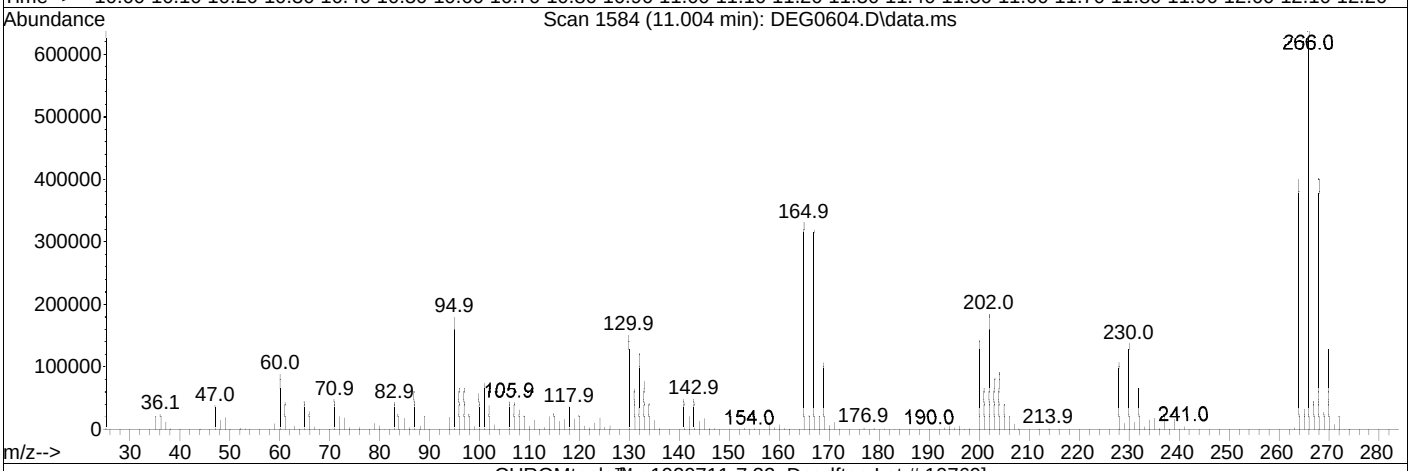
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.5	186267	PASS
68	69	0.00	2	1.6	3011	PASS
69	69	100	100	100.0	185893	PASS
70	69	0.00	2	0.6	1023	PASS
127	198	10	80	44.0	237336	PASS
197	198	0.00	2	0.7	3863	PASS
198	198	100	100	100.0	539456	PASS
199	198	5	9	6.8	36800	PASS
275	198	10	60	21.6	116525	PASS
365	198	1	100	2.5	13402	PASS
441	442	0.01	24	16.6	79091	PASS
442	198	50	100	88.4	477035	PASS
443	442	15	24	19.4	92339	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240604RVT\
Data File : DEG0604.D
Acq On : 4 Jun 2024 9:36 pm
Operator : SV107:sz
Sample : wg1929711-7,32,,Degdftpp Lot # 10769
Misc : wg1929711,,ical21169
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 04 21:57:48 2024
Quant Method : I:\8270\SV107\240604RVT\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [wg1929711-7,32,,Degdftpp Lot # 10769]

(1) Pentachlorophenol (T)

11.004min (-0.006) 248.89

response 522760

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

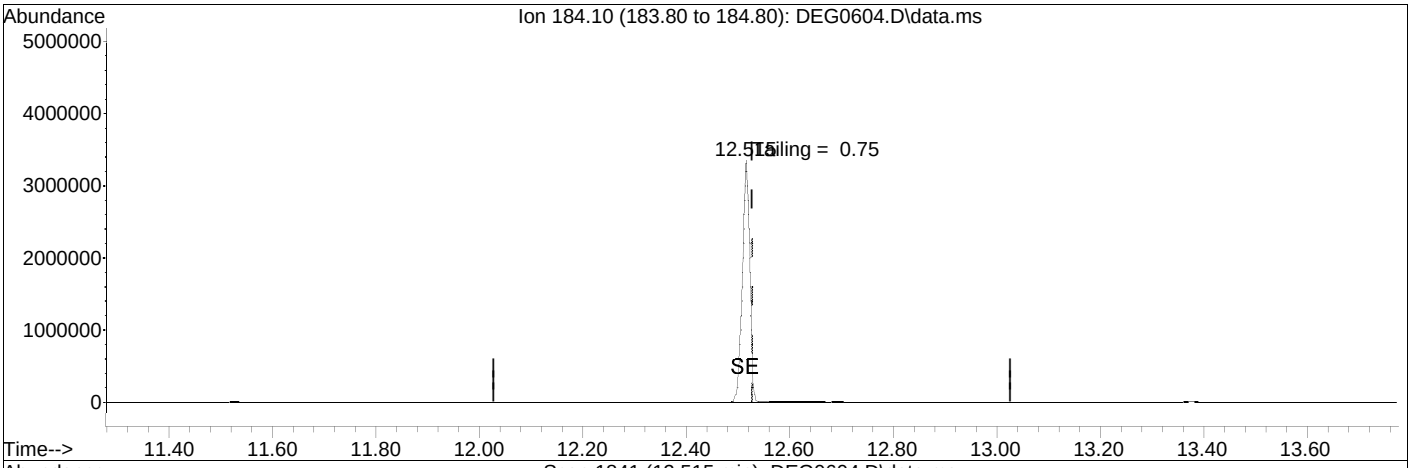
Duplicate Retention Times

(2) DFTPP 198.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240604RVT\
Data File : DEG0604.D
Acq On : 4 Jun 2024 9:36 pm
Operator : SV107:sz
Sample : wg1929711-6,32,,Degdftpp Lot # 10769
Misc : wg1929711,,ical21169
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 04 21:57:48 2024
Quant Method : I:\8270\SV107\240604RVT\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration



CHROMtools [wg1929711-6,32,,Degdftpp Lot # 10769]

(3) Benzidine (T)

12.515min (-0.012) 310.66

response 3162563

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: SV107	**Calibration Date**	: 06/04/24 22:02		
Lab File ID	: ABN0604	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1929711-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	101	0
n-Nitrosodimethylamine	0.704	0.725	-	-3	20	106	0
Pyridine	1.199	1.133	-	5.5	20	99	0
2-Fluorophenol	1.069	1.072	-	-0.3	20	105	0
Aniline	1.713	1.541	-	10	20	95	0
2-Chlorophenol	1.178	1.172	-	0.5	20	105	0
Phenol-d6	1.322	1.361	-	-3	20	109	0
Phenol	1.438	1.426	-	0.8	20	106	0
Bis(2-chloroethyl)ether	1.185	1.187	-	-0.2	20	110	0
1,3-Dichlorobenzene	1.452	1.43	-	1.5	20	106	0
1,4-Dichlorobenzene	1.478	1.468	-	0.7	20	107	0
1,2-Dichlorobenzene	1.426	1.403	-	1.6	20	106	0
Benzyl alcohol	1	0.953	-	4.7	20	102	0
Bis(2-chloroisopropyl)ethe	1.623	1.645	-	-1.4	20	111	0
2-Methylphenol	1.031	1.018	-	1.3	20	104	0
Hexachloroethane	0.545	0.548	-	-0.6	20	107	0
n-Nitrosodi-n-propylamine	0.879	0.855	-	2.7	20	104	0
3-Methylphenol/4-Methylphe	1.084	1.101	-	-1.6	20	103	0
Nitrobenzene-d5	1.165	1.203	-	-3.3	20	105	0
Nitrobenzene	1.197	1.227	-	-2.5	20	105	0
Isophorone	2.31	2.234	-	3.3	20	101	0
2-Nitrophenol	0.533	0.531	-	0.4	20	108	0
2,4-Dimethylphenol	1.088	0.911	-	16.3	20	87	0
Bis(2-chloroethoxy)methane	1.508	1.528	-	-1.3	20	110	0
2,4-Dichlorophenol	1.094	1.102	-	-0.7	20	102	0
1,2,4-Trichlorobenzene	1.318	1.33	-	-0.9	20	110	0
IS1_Naphthalene-d8	1	1	-	0	20	104	0
Naphthalene	0.996	0.967	-	2.9	20	109	0
Benzoic Acid	5	4.665	-	6.7	20	101	0
4-Chloroaniline	0.126	0.122	-	3.2	20	106	0
Hexachlorobutadiene	0.211	0.202	-	4.3	20	107	0
p-Chloro-m-cresol	0.272	0.27	-	0.7	20	102	0
2-Methylnaphthalene	0.688	0.663	-	3.6	20	105	0
1-Methylnaphthalene	0.235	0.228	-	3	20	108	0
Hexachlorocyclopentadiene	0.205	0.178	-	13.2	20	94	0
2,4,6-Trichlorophenol	0.237	0.233	-	1.7	20	100	0
2,4,5-Trichlorophenol	0.251	0.253	-	-0.8	20	103	0
2-Fluorobiphenyl	0.866	0.824	-	4.8	20	104	0
2-Chloronaphthalene	0.715	0.681	-	4.8	20	105	0
2-Nitroaniline	0.173	0.171	-	1.2	20	102	0
1,4-Dinitrobenzene	0.087	0.08	-	8	20	109	0
1,3-Dinitrobenzene	0.109	0.099	-	9.2	20	104	0
Dimethyl phthalate	0.839	0.804	-	4.2	20	103	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: SV107	**Calibration Date**	: 06/04/24 22:02		
Lab File ID	: ABN0604	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1929711-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.079	1.083	-	-0.4	20	107	0
2,6-Dinitrotoluene	0.153	0.159	-	-3.9	20	104	0
1,2-Dinitrobenzene	0.068	0.07	-	-2.9	20	104	0
IS1_Acenaphthene-d10	1	1	-	0	20	99	0
3-Nitroaniline	0.259	0.269	-	-3.9	20	104	0
Acenaphthene	1.081	1.002	-	7.3	20	102	0
2,4-Dinitrophenol	5	4.378	-	12.4	20	103	0
Dibenzofuran	1.757	1.673	-	4.8	20	103	0
2,4-Dinitrotoluene	5	4.494	-	10.1	20	105	0
4-Nitrophenol	0.221	0.214	-	3.2	20	102	0
2,3,5,6-Tetrachlorophenol	0.318	0.337	-	-6	20	104	0
2,3,4,6-Tetrachlorophenol	0.314	0.33	-	-5.1	20	102	0
Diethyl phthalate	1.301	1.247	-	4.2	20	103	0
Fluorene	1.328	1.276	-	3.9	20	103	0
4-Chlorophenyl phenyl ethe	0.672	0.652	-	3	20	105	0
4-Nitroaniline	0.262	0.266	-	-1.5	20	105	0
4,6-Dinitro-o-cresol	5	4.135	-	17.3	20	105	0
NDPA/DPA	1.131	1.09	-	3.6	20	102	0
Azobenzene	1.259	1.266	-	-0.6	20	105	0
2,4,6-Tribromophenol	0.171	0.174	-	-1.8	20	98	0
4-Bromophenyl phenyl ether	0.376	0.354	-	5.9	20	102	0
Hexachlorobenzene	0.431	0.389	-	9.7	20	99	0
Pentachlorophenol	0.252	0.232	-	7.9	20	97	0
IS1_Phenanthrene-d10	1	1	-	0	20	97	0
Phenanthrene	1.038	0.995	-	4.1	20	102	0
Anthracene	1.03	0.99	-	3.9	20	102	0
Carbazole	0.928	0.893	-	3.8	20	99	0
Di-n-butylphthalate	1.088	1.061	-	2.5	20	99	0
Fluoranthene	1.186	1.116	-	5.9	20	99	0
Benzidine	0.721	0.658	-	8.7	20	95	0
Pyrene	1.269	1.205	-	5	20	101	0
4-Terphenyl-d14	0.875	0.847	-	3.2	20	103	0
Butyl benzyl phthalate	5	4.109	-	17.8	20	96	0
IS1_Chrysene-d12	1	1	-	0	20	97	0
Benzo(a)anthracene	1.335	1.279	-	4.2	20	102	0
3,3'-Dichlorobenzidine	0.43	0.421	-	2.1	20	95	0
Chrysene	1.276	1.21	-	5.2	20	101	0
Bis(2-ethylhexyl)phthalate	5	4.313	-	13.7	20	97	0
Di-n-octylphthalate	5	4.155	-	16.9	20	97	0
Benzo(b)fluoranthene	1.178	1.104	-	6.3	20	97	0
Benzo(k)fluoranthene	1.154	1.184	-	-2.6	20	104	0
Benzo(a)pyrene	1.025	1.019	-	0.6	20	101	0
IS1_Perylene-d12	1	1	-	0	20	94	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2430219	
Project Name	: HUNTINGTON READY MIXED		**Project Number**	: 20116	
Instrument ID	: SV107		**Calibration Date**	: 06/04/24 22:02	
Lab File ID	: ABN0604		**Init. Calib. Date(s)**	: 06/02/24	06/03/24
Sample No	: WG1929711-3		**Init. Calib. Times**	: 19:34	07:50
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.952	0.993	-	-4.3	20	105	0
Dibenzo(a,h)anthracene	0.953	1.04	-	-9.1	20	102	0
Benzo(ghi)perylene	0.928	0.964	-	-3.9	20	103	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: SV107	**Calibration Date**	: 06/04/24 22:27		
Lab File ID	: AP90604	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1929711-4	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	113	0
Benzaldehyde	1.024	1.034	-	-1	20	122	0
Acetophenone	1.77	1.817	-	-2.7	20	121	0
m-Toluidine	1.599	1.808	-	-13.1	20	125	0
2-Chloroaniline	1.546	1.612	-	-4.3	20	121	0
IS2_Naphthalene-d8	1	1	-	0	20	114	0
a-Terpineol	0.276	0.285	-	-3.3	20	126	0
3-Chloroaniline	0.147	0.149	-	-1.4	20	122	0
2,6-Dichlorophenol	0.29	0.307	-	-5.9	20	125	0
1-chloro-2-nitrobenzene	0.121	0.135	-	-11.6	20	139	0
Caprolactam	0.149	0.15	-	-0.7	20	121	0
1,2,4,5-Tetrachlorobenzene	0.402	0.409	-	-1.7	20	127	0
Biphenyl	0.929	0.937	-	-0.9	20	125	0
IS2_Acenaphthene-d10	1	1	-	0	20	120	0
Dichloran	5	4.955	-	0.9	20	141	0
Pentachloronitrobenzene	5	5.149	-	-3	20	138	0
IS2_Phenanthrene-d10	1	1	-	0	20	118	0
Diphenamid	0.445	0.452	-	-1.6	20	124	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: SV107	**Calibration Date**	: 06/04/24 22:52		
Lab File ID	: ADP0604	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1929711-5	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	108	0
n-Decane	1.447	1.273	-	12	20	103	0
IS3_Acenaphthene-d10	1	1	-	0	20	110	0
Atrazine	0.347	0.33	-	4.9	20	102	0
IS3_Phenanthrene-d10	1	1	-	0	20	111	0
n-Octadecane	0.393	0.366	-	6.9	20	102	0
Parathion	5	4.065	-	18.7	20	98	0
3,3'-Dimethylbenzidine	0.696	0.563	-	19.1	20	93	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/05/24 08:58		
Lab File ID	: ABN0605	**Init. Calib. Date(s)**	: 05/31/24	06/01/24	
Sample No	: WG1929981-3	**Init. Calib. Times**	: 18:03	05:05	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	85	0
n-Nitrosodimethylamine	0.643	0.661	-	-2.8	20	90	0
Pyridine	1.051	1.024	-	2.6	20	83	0
2-Fluorophenol	1.003	0.977	-	2.6	20	87	0
Aniline	1.625	1.501	-	7.6	20	80	0
2-Chlorophenol	1.121	1.142	-	-1.9	20	85	0
Phenol-d6	1.244	1.271	-	-2.2	20	87	0
Phenol	1.393	1.426	-	-2.4	20	86	0
Bis(2-chloroethyl)ether	0.948	0.962	-	-1.5	20	85	0
1,3-Dichlorobenzene	1.422	1.453	-	-2.2	20	89	0
1,4-Dichlorobenzene	1.411	1.473	-	-4.4	20	91	0
1,2-Dichlorobenzene	1.364	1.399	-	-2.6	20	86	0
Benzyl alcohol	0.915	0.878	-	4	20	81	0
Bis(2-chloroisopropyl)ethe	1.578	1.615	-	-2.3	20	90	0
2-Methylphenol	0.937	0.954	-	-1.8	20	85	0
Hexachloroethane	0.505	0.496	-	1.8	20	85	0
n-Nitrosodi-n-propylamine	0.843	0.815	-	3.3	20	83	0
3-Methylphenol/4-Methylphe	1.022	1.004	-	1.8	20	82	0
Nitrobenzene-d5	1.102	1.008	-	8.5	20	79	0
Nitrobenzene	1.084	1.064	-	1.8	20	84	0
Isophorone	2.1	2.18	-	-3.8	20	88	0
2-Nitrophenol	0.495	0.442	-	10.7	20	76	0
2,4-Dimethylphenol	0.972	0.817	-	15.9	20	69	0
Bis(2-chloroethoxy)methane	1.258	1.275	-	-1.4	20	83	0
2,4-Dichlorophenol	1.126	1.106	-	1.8	20	82	0
1,2,4-Trichlorobenzene	1.352	1.446	-	-7	20	89	0
IS1_Naphthalene-d8	1	1	-	0	20	83	0
Naphthalene	0.964	0.956	-	0.8	20	87	0
Benzoic Acid	5	3.863	-	22.7*	20	72	0
4-Chloroaniline	0.118	0.116	-	1.7	20	90	0
Hexachlorobutadiene	0.228	0.226	-	0.9	20	85	0
p-Chloro-m-cresol	0.261	0.252	-	3.4	20	84	0
2-Methylnaphthalene	0.69	0.674	-	2.3	20	86	0
1-Methylnaphthalene	0.23	0.223	-	3	20	85	0
Hexachlorocyclopentadiene	0.241	0.19	-	21.2*	20	69	0
2,4,6-Trichlorophenol	0.267	0.243	-	9	20	78	0
2,4,5-Trichlorophenol	0.29	0.272	-	6.2	20	80	0
2-Fluorobiphenyl	0.92	0.912	-	0.9	20	90	0
2-Chloronaphthalene	0.759	0.759	-	0	20	87	0
2-Nitroaniline	0.179	0.143	-	20.1*	20	70	0
1,4-Dinitrobenzene	0.08	0.071	-	11.3	20	78	0
1,3-Dinitrobenzene	0.089	0.078	-	12.4	20	74	0
Dimethyl phthalate	0.896	0.861	-	3.9	20	84	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/05/24 08:58		
Lab File ID	: ABN0605	**Init. Calib. Date(s)**	: 05/31/24	06/01/24	
Sample No	: WG1929981-3	**Init. Calib. Times**	: 18:03	05:05	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.13	1.153	-	-2	20	91	0
2,6-Dinitrotoluene	0.157	0.136	-	13.4	20	77	0
1,2-Dinitrobenzene	0.055	0.049	-	10.9	20	76	0
IS1_Acenaphthene-d10	1	1	-	0	20	79	0
3-Nitroaniline	0.236	0.226	-	4.2	20	75	0
Acenaphthene	0.993	0.982	-	1.1	20	85	0
2,4-Dinitrophenol	5	4.622	-	7.6	20	83	0
Dibenzofuran	1.665	1.698	-	-2	20	86	0
2,4-Dinitrotoluene	0.299	0.285	-	4.7	20	75	0
4-Nitrophenol	0.205	0.2	-	2.4	20	75	0
2,3,5,6-Tetrachlorophenol	0.369	0.342	-	7.3	20	76	0
2,3,4,6-Tetrachlorophenol	0.355	0.359	-	-1.1	20	83	0
Diethyl phthalate	1.362	1.32	-	3.1	20	83	0
Fluorene	1.323	1.323	-	0	20	85	0
4-Chlorophenyl phenyl ethe	0.702	0.707	-	-0.7	20	88	0
4-Nitroaniline	0.252	0.248	-	1.6	20	75	0
4,6-Dinitro-o-cresol	5	4.293	-	14.1	20	75	0
NDPA/DPA	1.141	1.165	-	-2.1	20	85	0
Azobenzene	1.142	1.14	-	0.2	20	86	0
2,4,6-Tribromophenol	0.187	0.177	-	5.3	20	75	0
4-Bromophenyl phenyl ether	0.436	0.425	-	2.5	20	83	0
Hexachlorobenzene	0.502	0.485	-	3.4	20	86	0
Pentachlorophenol	5	4.255	-	14.9	20	73	0
IS1_Phenanthrene-d10	1	1	-	0	20	81	0
Phenanthrene	1.003	0.995	-	0.8	20	87	0
Anthracene	0.98	1.006	-	-2.7	20	88	0
Carbazole	0.949	0.933	-	1.7	20	85	0
Di-n-butylphthalate	1.032	0.971	-	5.9	20	80	0
Fluoranthene	1.28	1.246	-	2.7	20	87	0
Benzidine	0.733	0.782	-	-6.7	20	83	0
Pyrene	1.344	1.346	-	-0.1	20	89	0
4-Terphenyl-d14	1.001	0.987	-	1.4	20	86	0
Butyl benzyl phthalate	0.473	0.424	-	10.4	20	77	0
IS1_Chrysene-d12	1	1	-	0	20	80	0
Benzo(a)anthracene	1.378	1.314	-	4.6	20	88	0
3,3'-Dichlorobenzidine	0.473	0.486	-	-2.7	20	86	0
Chrysene	1.263	1.248	-	1.2	20	88	0
Bis(2-ethylhexyl)phthalate	0.666	0.621	-	6.8	20	78	0
Di-n-octylphthalate	1.136	1.05	-	7.6	20	78	0
Benzo(b)fluoranthene	1.418	1.363	-	3.9	20	86	0
Benzo(k)fluoranthene	1.357	1.333	-	1.8	20	92	0
Benzo(a)pyrene	1.262	1.259	-	0.2	20	88	0
IS1_Perylene-d12	1	1	-	0	20	81	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/05/24 08:58		
Lab File ID	: ABN0605	**Init. Calib. Date(s)**	: 05/31/24	06/01/24	
Sample No	: WG1929981-3	**Init. Calib. Times**	: 18:03	05:05	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.186	1.18	-	0.5	20	83	0
Dibenzo(a,h)anthracene	1.089	1.108	-	-1.7	20	89	0
Benzo(ghi)perylene	1.087	1.086	-	0.1	20	88	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/05/24 09:20		
Lab File ID	: AP90605	**Init. Calib. Date(s)**	: 05/31/24	06/01/24	
Sample No	: WG1929981-4	**Init. Calib. Times**	: 18:03	05:05	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	80	0
Benzaldehyde	0.959	0.984	-	-2.6	20	93	0
Acetophenone	1.593	1.704	-	-7	20	89	0
m-Toluidine	1.457	1.598	-	-9.7	20	89	0
2-Chloroaniline	1.441	1.534	-	-6.5	20	88	0
IS2_Naphthalene-d8	1	1	-	0	20	82	0
a-Terpineol	0.248	0.26	-	-4.8	20	92	0
3-Chloroaniline	0.136	0.146	-	-7.4	20	95	0
2,6-Dichlorophenol	0.319	0.324	-	-1.6	20	86	0
1-chloro-2-nitrobenzene	0.121	0.117	-	3.3	20	85	0
Caprolactam	0.129	0.131	-	-1.6	20	87	0
1,2,4,5-Tetrachlorobenzene	0.449	0.48	-	-6.9	20	93	0
Biphenyl	0.931	0.957	-	-2.8	20	91	0
IS2_Acenaphthene-d10	1	1	-	0	20	82	0
Dichloran	5	4.173	-	16.5	20	84	0
Pentachloronitrobenzene	0.16	0.14	-	12.5	20	71	0
IS2_Phenanthrene-d10	1	1	-	0	20	84	0
Diphenamid	0.471	0.472	-	-0.2	20	87	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2430219	
Project Name	: HUNTINGTON READY MIXED		**Project Number**	: 20116	
Instrument ID	: DAKOTA		**Calibration Date**	: 06/05/24 09:42	
Lab File ID	: ADP0605		**Init. Calib. Date(s)**	: 05/31/24	06/01/24
Sample No	: WG1929981-5		**Init. Calib. Times**	: 18:03	05:05
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	88	0
n-Decane	1.164	1.091	-	6.3	20	88	0
IS3_Acenaphthene-d10	1	1	-	0	20	87	0
Atrazine	0.423	0.394	-	6.9	20	88	0
IS3_Phenanthrene-d10	1	1	-	0	20	88	0
n-Octadecane	0.325	0.308	-	5.2	20	88	0
Parathion	5	4.188	-	16.2	20	76	0
3,3'-Dimethylbenzidine	5	4.756	-	4.9	20	90	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/06/24 13:04		
Lab File ID	: ABN0606	**Init. Calib. Date(s)**	: 05/31/24	06/01/24	
Sample No	: WG1930740-3	**Init. Calib. Times**	: 18:03	05:05	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	94	0
n-Nitrosodimethylamine	0.643	0.658	-	-2.3	20	100	0
Pyridine	1.051	0.977	-	7	20	88	0
2-Fluorophenol	1.003	0.973	-	3	20	96	0
Aniline	1.625	1.512	-	7	20	89	0
2-Chlorophenol	1.121	1.137	-	-1.4	20	94	0
Phenol-d6	1.244	1.288	-	-3.5	20	98	0
Phenol	1.393	1.434	-	-2.9	20	96	0
Bis(2-chloroethyl)ether	0.948	0.949	-	-0.1	20	93	0
1,3-Dichlorobenzene	1.422	1.468	-	-3.2	20	100	0
1,4-Dichlorobenzene	1.411	1.475	-	-4.5	20	101	0
1,2-Dichlorobenzene	1.364	1.421	-	-4.2	20	97	0
Benzyl alcohol	0.915	0.919	-	-0.4	20	93	0
Bis(2-chloroisopropyl)ethe	1.578	1.636	-	-3.7	20	101	0
2-Methylphenol	0.937	0.955	-	-1.9	20	94	0
Hexachloroethane	0.505	0.509	-	-0.8	20	97	0
n-Nitrosodi-n-propylamine	0.843	0.821	-	2.6	20	93	0
3-Methylphenol/4-Methylphe	1.022	1.027	-	-0.5	20	93	0
Nitrobenzene-d5	1.102	1.209	-	-9.7	20	105	0
Nitrobenzene	1.084	1.195	-	-10.2	20	104	0
Isophorone	2.1	2.245	-	-6.9	20	100	0
2-Nitrophenol	0.495	0.553	-	-11.7	20	106	0
2,4-Dimethylphenol	0.972	0.861	-	11.4	20	80	0
Bis(2-chloroethoxy)methane	1.258	1.347	-	-7.1	20	98	0
2,4-Dichlorophenol	1.126	1.162	-	-3.2	20	95	0
1,2,4-Trichlorobenzene	1.352	1.473	-	-8.9	20	101	0
IS1_Naphthalene-d8	1	1	-	0	20	95	0
Naphthalene	0.964	0.944	-	2.1	20	99	0
Benzoic Acid	5	5.067	-	-1.3	20	119	0
4-Chloroaniline	0.118	0.113	-	4.2	20	101	0
Hexachlorobutadiene	0.228	0.233	-	-2.2	20	101	0
p-Chloro-m-cresol	0.261	0.26	-	0.4	20	99	0
2-Methylnaphthalene	0.69	0.681	-	1.3	20	99	0
1-Methylnaphthalene	0.23	0.231	-	-0.4	20	101	0
Hexachlorocyclopentadiene	0.241	0.216	-	10.4	20	90	0
2,4,6-Trichlorophenol	0.267	0.285	-	-6.7	20	105	0
2,4,5-Trichlorophenol	0.29	0.308	-	-6.2	20	104	0
2-Fluorobiphenyl	0.92	0.916	-	0.4	20	103	0
2-Chloronaphthalene	0.759	0.784	-	-3.3	20	103	0
2-Nitroaniline	0.179	0.2	-	-11.7	20	112	0
1,4-Dinitrobenzene	0.08	0.105	-	-31.2*	20	132	0
1,3-Dinitrobenzene	0.089	0.118	-	-32.6*	20	127	0
Dimethyl phthalate	0.896	0.978	-	-9.2	20	109	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/06/24 13:04		
Lab File ID	: ABN0606	**Init. Calib. Date(s)**	: 05/31/24	06/01/24	
Sample No	: WG1930740-3	**Init. Calib. Times**	: 18:03	05:05	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.13	1.218	-	-7.8	20	110	0
2,6-Dinitrotoluene	0.157	0.191	-	-21.7*	20	124	0
1,2-Dinitrobenzene	0.055	0.074	-	-34.5*	20	132	0
IS1_Acenaphthene-d10	1	1	-	0	20	95	0
3-Nitroaniline	0.236	0.281	-	-19.1	20	112	0
Acenaphthene	0.993	0.988	-	0.5	20	103	0
2,4-Dinitrophenol	5	6.45	-	-29*	20	145	0
Dibenzofuran	1.665	1.747	-	-4.9	20	107	0
2,4-Dinitrotoluene	0.299	0.396	-	-32.4*	20	124	0
4-Nitrophenol	0.205	0.229	-	-11.7	20	103	0
2,3,5,6-Tetrachlorophenol	0.369	0.409	-	-10.8	20	109	0
2,3,4,6-Tetrachlorophenol	0.355	0.404	-	-13.8	20	112	0
Diethyl phthalate	1.362	1.394	-	-2.3	20	105	0
Fluorene	1.323	1.373	-	-3.8	20	106	0
4-Chlorophenyl phenyl ethe	0.702	0.715	-	-1.9	20	106	0
4-Nitroaniline	0.252	0.3	-	-19	20	109	0
4,6-Dinitro-o-cresol	5	6.668	-	-33.4*	20	146	0
NDPA/DPA	1.141	1.199	-	-5.1	20	105	0
Azobenzene	1.142	1.208	-	-5.8	20	109	0
2,4,6-Tribromophenol	0.187	0.22	-	-17.6	20	112	0
4-Bromophenyl phenyl ether	0.436	0.453	-	-3.9	20	106	0
Hexachlorobenzene	0.502	0.522	-	-4	20	110	0
Pentachlorophenol	5	5.462	-	-9.2	20	114	0
IS1_Phenanthrene-d10	1	1	-	0	20	102	0
Phenanthrene	1.003	0.985	-	1.8	20	108	0
Anthracene	0.98	0.983	-	-0.3	20	108	0
Carbazole	0.949	0.929	-	2.1	20	107	0
Di-n-butylphthalate	1.032	1.034	-	-0.2	20	107	0
Fluoranthene	1.28	1.231	-	3.8	20	108	0
Benzidine	0.733	0.765	-	-4.4	20	103	0
Pyrene	1.344	1.33	-	1	20	110	0
4-Terphenyl-d14	1.001	0.998	-	0.3	20	110	0
Butyl benzyl phthalate	0.473	0.463	-	2.1	20	106	0
IS1_Chrysene-d12	1	1	-	0	20	99	0
Benzo(a)anthracene	1.378	1.308	-	5.1	20	110	0
3,3'-Dichlorobenzidine	0.473	0.494	-	-4.4	20	109	0
Chrysene	1.263	1.224	-	3.1	20	108	0
Bis(2-ethylhexyl)phthalate	0.666	0.682	-	-2.4	20	108	0
Di-n-octylphthalate	1.136	1.168	-	-2.8	20	108	0
Benzo(b)fluoranthene	1.418	1.332	-	6.1	20	106	0
Benzo(k)fluoranthene	1.357	1.32	-	2.7	20	113	0
Benzo(a)pyrene	1.262	1.24	-	1.7	20	108	0
IS1_Perylene-d12	1	1	-	0	20	97	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2430219	
Project Name	: HUNTINGTON READY MIXED		**Project Number**	: 20116	
Instrument ID	: DAKOTA		**Calibration Date**	: 06/06/24 13:04	
Lab File ID	: ABN0606		**Init. Calib. Date(s)**	: 05/31/24	06/01/24
Sample No	: WG1930740-3		**Init. Calib. Times**	: 18:03	05:05
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.186	1.06	-	10.6	20	90	0
Dibenzo(a,h)anthracene	1.089	0.986	-	9.5	20	95	0
Benzo(ghi)perylene	1.087	0.977	-	10.1	20	95	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/06/24 13:26		
Lab File ID	: AP90606	**Init. Calib. Date(s)**	: 05/31/24	06/01/24	
Sample No	: WG1930740-4	**Init. Calib. Times**	: 18:03	05:05	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	85	0
Benzaldehyde	0.959	0.999	-	-4.2	20	101	0
Acetophenone	1.593	1.725	-	-8.3	20	96	0
m-Toluidine	1.457	1.615	-	-10.8	20	96	0
2-Chloroaniline	1.441	1.617	-	-12.2	20	99	0
IS2_Naphthalene-d8	1	1	-	0	20	89	0
a-Terpineol	0.248	0.259	-	-4.4	20	99	0
3-Chloroaniline	0.136	0.14	-	-2.9	20	98	0
2,6-Dichlorophenol	0.319	0.355	-	-11.3	20	101	0
1-chloro-2-nitrobenzene	0.121	0.137	-	-13.2	20	106	0
Caprolactam	0.129	0.137	-	-6.2	20	98	0
1,2,4,5-Tetrachlorobenzene	0.449	0.482	-	-7.3	20	101	0
Biphenyl	0.931	1.006	-	-8.1	20	102	0
IS2_Acenaphthene-d10	1	1	-	0	20	93	0
Dichloran	5	5.316	-	-6.3	20	124	0
Pentachloronitrobenzene	0.16	0.199	-	-24.4*	20	114	0
IS2_Phenanthrene-d10	1	1	-	0	20	98	0
Diphenamid	0.471	0.501	-	-6.4	20	108	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/06/24 13:48		
Lab File ID	: ADP0606	**Init. Calib. Date(s)**	: 05/31/24	06/01/24	
Sample No	: WG1930740-5	**Init. Calib. Times**	: 18:03	05:05	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	91	0
n-Decane	1.164	1.051	-	9.7	20	88	0
IS3_Acenaphthene-d10	1	1	-	0	20	95	0
Atrazine	0.423	0.418	-	1.2	20	101	0
IS3_Phenanthrene-d10	1	1	-	0	20	96	0
n-Octadecane	0.325	0.303	-	6.8	20	94	0
Parathion	5	5.147	-	-2.9	20	103	0
3,3'-Dimethylbenzidine	5	5.039	-	-0.8	20	104	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240605RVT\
Data File : ABN0605.D
Acq On : 5 Jun 2024 8:58 am
Operator : Dakota:sz
Sample : wg1929981-3,32,,ABN 10526 HNY0517B
Misc : wg1929981,,ical21172
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 05 09:24:35 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 09:24:57 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	85	0.00
2	t	n-Nitrosodimethylamine		0.643	0.661	-2.8	90	0.00
3	t	Pyridine		1.051	1.024	2.6	83	0.00
4	S	2-Fluorophenol		1.003	0.977	2.6	87	0.00
5	T	Aniline		1.625	1.501	7.6	80	0.00
6	t	2-Chlorophenol		1.121	1.142	-1.9	85	0.00
7	S	Phenol-d6		1.244	1.271	-2.2	87	0.00
8	T	Phenol		1.393	1.426	-2.4	86	0.00
9	T	Bis(2-chloroethyl)ether		0.948	0.962	-1.5	85	0.00
10	T	1,3-Dichlorobenzene		1.422	1.453	-2.2	89	0.00
11	T	1,4-Dichlorobenzene		1.411	1.473	-4.4	91	0.00
12	T	1,2-Dichlorobenzene		1.364	1.399	-2.6	86	0.00
13	t	Benzyl alcohol		0.915	0.878	4.0	81	0.00
14	T	Bis(2-chloroisopropyl)ether		1.578	1.615	-2.3	90	0.00
15	T	2-Methylphenol		0.937	0.954	-1.8	85	0.00
16	T	Hexachloroethane		0.505	0.496	1.8	85	0.00
17	T	n-Nitrosodi-n-propylamine		0.843	0.815	3.3	83	0.00
18	T	3-Methylphenol/4-Methylphen		1.022	1.004	1.8	82	0.00
19	S	Nitrobenzene-d5		1.102	1.008	8.5	79	0.00
20	T	Nitrobenzene		1.084	1.064	1.8	84	0.00
21	T	Isophorone		2.100	2.180	-3.8	88	0.00
22	T	2-Nitrophenol		0.495	0.442	10.7	76	0.00
23	T	2,4-Dimethylphenol		0.972	0.817	15.9	69	0.00
24	T	Bis(2-chloroethoxy)methane		1.258	1.275	-1.4	83	0.00
25	T	2,4-Dichlorophenol		1.126	1.106	1.8	82	0.00
26	T	1,2,4-Trichlorobenzene		1.352	1.446	-7.0	89	0.00
34	I	IS1_Naphthalene-d8		1.000	1.000	0.0	83	0.00
35	T	Naphthalene		0.964	0.956	0.8	87	0.00
36	T	Benzoic Acid	*	5.000	3.863	22.7#	72	0.00
37	T	4-Chloroaniline		0.118	0.116	1.7	90	0.00
38	T	Hexachlorobutadiene		0.228	0.226	0.9	85	0.00
39	T	p-Chloro-m-cresol		0.261	0.252	3.4	84	0.00
40	T	2-Methylnaphthalene		0.690	0.674	2.3	86	0.00
41	T	1-Methylnaphthalene		0.230	0.223	3.0	85	0.00
42	T	Hexachlorocyclopentadiene		0.241	0.190	21.2#	69	0.00
43	T	2,4,6-Trichlorophenol		0.267	0.243	9.0	78	0.00
44	T	2,4,5-Trichlorophenol		0.290	0.272	6.2	80	0.00
45	S	2-Fluorobiphenyl		0.920	0.912	0.9	90	0.00

Data Path : I:\8270\Dakota\240605RVT\
Data File : ABN0605.D
Acq On : 5 Jun 2024 8:58 am
Operator : Dakota:sz
Sample : wg1929981-3,32,,ABN 10526 HNY0517B
Misc : wg1929981,,ical21172
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 05 09:24:35 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 09:24:57 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene		0.759	0.759	0.0	87	0.00
47	T	2-Nitroaniline		0.179	0.143	20.1#	70	0.00
48	T	1,4-Dinitrobenzene		0.080	0.071	11.3	78	0.00
49	T	1,3-Dinitrobenzene		0.089	0.078	12.4	74	0.00
50	T	Dimethyl phthalate		0.896	0.861	3.9	84	0.00
51	T	Acenaphthylene		1.130	1.153	-2.0	91	0.00
52	T	2,6-Dinitrotoluene		0.157	0.136	13.4	77	0.00
53	T	1,2-Dinitrobenzene		0.055	0.049	10.9	76	0.00
62	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	79	0.00
63	T	3-Nitroaniline		0.236	0.226	4.2	75	0.00
64	T	Acenaphthene		0.993	0.982	1.1	85	0.00
65	T	2,4-Dinitrophenol	*	5.000	4.622	7.6	83	0.00
66	T	Dibenzofuran		1.665	1.698	-2.0	86	0.00
67	T	2,4-Dinitrotoluene		0.299	0.285	4.7	75	0.00
68	T	4-Nitrophenol		0.205	0.200	2.4	75	0.00
69	T	2,3,5,6-Tetrachlorophenol		0.369	0.342	7.3	76	0.00
70	T	2,3,4,6-Tetrachlorophenol		0.355	0.359	-1.1	83	0.00
71	T	Diethyl phthalate		1.362	1.320	3.1	83	0.00
72	T	Fluorene		1.323	1.323	0.0	85	0.00
73	T	4-Chlorophenyl phenyl ether		0.702	0.707	-0.7	88	0.00
74	T	4-Nitroaniline		0.252	0.248	1.6	75	0.00
75	T	4,6-Dinitro-o-cresol	*	5.000	4.293	14.1	75	0.00
76	T	NDPA/DPA		1.141	1.165	-2.1	85	0.00
77	T	Azobenzene		1.142	1.140	0.2	86	0.00
78	S	2,4,6-Tribromophenol		0.187	0.177	5.3	75	0.00
79	T	4-Bromophenyl phenyl ether		0.436	0.425	2.5	83	0.00
80	T	Hexachlorobenzene		0.502	0.485	3.4	86	0.00
81	T	Pentachlorophenol	*	5.000	4.255	14.9	73	0.00
87	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	81	0.00
88	T	Phenanthrene		1.003	0.995	0.8	87	0.00
89	T	Anthracene		0.980	1.006	-2.7	88	0.00
90	T	Carbazole		0.949	0.933	1.7	85	0.00
91	T	Di-n-butylphthalate		1.032	0.971	5.9	80	0.00
92	T	Fluoranthene		1.280	1.246	2.7	87	0.00
93	T	Benzidine		0.733	0.782	-6.7	83	0.00
94	T	Pyrene		1.344	1.346	-0.1	89	0.00
95	S	4-Terphenyl-d14		1.001	0.987	1.4	86	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240605RVT\
Data File : ABN0605.D
Acq On : 5 Jun 2024 8:58 am
Operator : Dakota:sz
Sample : wg1929981-3,32,,ABN 10526 HNY0517B
Misc : wg1929981,,ical21172
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 05 09:24:35 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 09:24:57 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	0.473	0.424	10.4	77	0.00
103	I	IS1_Chrysene-d12	1.000	1.000	0.0	80	0.00
104	T	Benzo(a)anthracene	1.378	1.314	4.6	88	0.00
105	T	3,3'-Dichlorobenzidine	0.473	0.486	-2.7	86	0.00
106	T	Chrysene	1.263	1.248	1.2	88	0.00
107	T	Bis(2-ethylhexyl)phthalate	0.666	0.621	6.8	78	0.00
108	T	Di-n-octylphthalate	1.136	1.050	7.6	78	0.00
109	T	Benzo(b)fluoranthene	1.418	1.363	3.9	86	0.00
110	T	Benzo(k)fluoranthene	1.357	1.333	1.8	92	0.00
111	T	Benzo(a)pyrene	1.262	1.259	0.2	88	0.00
112	I	IS1_Perylene-d12	1.000	1.000	0.0	81	0.00
113	T	Indeno(1,2,3-cd)pyrene	1.186	1.180	0.5	83	0.00
114	T	Dibenzo(a,h)anthracene	1.089	1.108	-1.7	89	0.00
115	T	Benzo(ghi)perylene	1.087	1.086	0.1	88	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : ABN0605.D
Acq On : 5 Jun 2024 8:58 am
Operator : Dakota:sz
Sample : wg1929981-3,32,,ABN 10526 HNY0517B
Misc : wg1929981,,ical21172
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 05 09:24:35 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 09:24:57 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.807	152	25549	4.000	ug/ml	0.00
34) IS1_Naphthalene-d8	6.041	136	92758	4.000	ug/ml	0.00
62) IS1_Acenaphthene-d10	7.747	164	60587	4.000	ug/ml	0.00
87) IS1_Phenanthrene-d10	9.180	188	137458	4.000	ug/ml	0.00
103) IS1_Chrysene-d12	11.822	240	145741	4.000	ug/ml	0.00
112) IS1_Perylene-d12	13.292	264	171394	4.000	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.542	112	31210	4.871	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 243.55%#			
7) Phenol-d6	4.481	99	40600	5.110	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 255.50%#			
19) Nitrobenzene-d5	5.345	82	32198	4.576	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 457.60%#			
45) 2-Fluorobiphenyl	7.110	172	105746	4.959	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 495.90%#			
78) 2,4,6-Tribromophenol	8.512	330	13389	4.736	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 236.80%#			
95) 4-Terphenyl-d14	10.759	244	169609	4.929	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 492.90%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.171	74	21098	5.135	ug/ml	86
3) Pyridine	2.208	79	32709	4.870	ug/ml#	58
5) Aniline	4.490	93	47927	4.618	ug/ml#	40
6) 2-Chlorophenol	4.602	128	36457	5.091	ug/ml#	86
8) Phenol	4.493	94	45527	5.116	ug/ml#	49
9) Bis(2-chloroethyl)ether	4.568	93	30709	5.074	ug/ml	96
10) 1,3-Dichlorobenzene	4.751	146	46390	5.109	ug/ml	95
11) 1,4-Dichlorobenzene	4.826	146	47042	5.219	ug/ml	95
12) 1,2-Dichlorobenzene	4.972	146	44664	5.126	ug/ml	95
13) Benzyl alcohol	4.953	79	28055	4.803	ug/ml	98
14) Bis(2-chloroisopropyl)...	5.096	45	51591	5.119	ug/ml#	55
15) 2-Methylphenol	5.083	108	30463	5.087	ug/ml	99
16) Hexachloroethane	5.298	117	15838	4.914	ug/ml#	48
17) n-Nitrosodi-n-propylamine	5.220	70	26038	4.838	ug/ml#	86
18) 3-Methylphenol/4-Methy...	5.239	108	32054	4.910	ug/ml	96
20) Nitrobenzene	5.363	77	33990	4.907	ug/ml	91
21) Isophorone	5.603	82	69607	5.190	ug/ml#	93
22) 2-Nitrophenol	5.680	139	14123	4.463	ug/ml	90

Data Path : I:\8270\Dakota\240605RVT\
Data File : ABN0605.D
Acq On : 5 Jun 2024 8:58 am
Operator : Dakota:sz
Sample : wg1929981-3,32,,ABN 10526 HNY0517B
Misc : wg1929981,,ical21172
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 05 09:24:35 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 09:24:57 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	5.749	107	26079	4.200	ug/ml	97
24) Bis(2-chloroethoxy)met...	5.836	93	40725	5.068	ug/ml#	96
25) 2,4-Dichlorophenol	5.916	162	35330	4.912	ug/ml#	92
26) 1,2,4-Trichlorobenzene	5.994	180	46168	5.348	ug/ml#	97
35) Naphthalene	6.063	128	110895	4.959	ug/ml	99
36) Benzoic Acid	5.811	105	15184M1	3.863	ug/ml	
37) 4-Chloroaniline	6.128	65	13419	4.911	ug/ml	82
38) Hexachlorobutadiene	6.212	225	26204	4.965	ug/ml	100
39) p-Chloro-m-cresol	6.622	107	29232	4.832	ug/ml	90
40) 2-Methylnaphthalene	6.740	142	78178	4.886	ug/ml	95
41) 1-Methylnaphthalene	6.833	115	25803	4.834	ug/ml	98
42) Hexachlorocyclopentadiene	6.911	237	22003	3.934	ug/ml	98
43) 2,4,6-Trichlorophenol	7.026	196	28142M3	4.547	ug/ml	
44) 2,4,5-Trichlorophenol	7.054	196	31494	4.679	ug/ml	97
46) 2-Chloronaphthalene	7.206	162	87990	4.999	ug/ml#	92
47) 2-Nitroaniline	7.315	138	16552	3.996	ug/ml	89
48) 1,4-Dinitrobenzene	7.443	168	8179	4.431	ug/ml	94
49) 1,3-Dinitrobenzene	7.520	168	9099	4.402	ug/ml#	1
50) Dimethyl phthalate	7.514	163	99793	4.805	ug/ml#	97
51) Acenaphthylene	7.607	152	133645	5.098	ug/ml	98
52) 2,6-Dinitrotoluene	7.558	165	15772	4.323	ug/ml#	84
53) 1,2-Dinitrobenzene	7.601	168	5638	4.400	ug/ml#	1
63) 3-Nitroaniline	7.713	138	17100	4.778	ug/ml	97
64) Acenaphthene	7.778	154	74399	4.948	ug/ml	87
65) 2,4-Dinitrophenol	7.812	184	9109	4.622	ug/ml#	78
66) Dibenzofuran	7.946	168	128572	5.098	ug/ml	89
67) 2,4-Dinitrotoluene	7.943	165	21582	4.766	ug/ml	93
68) 4-Nitrophenol	7.899	65	15159	4.891	ug/ml#	92
69) 2,3,5,6-Tetrachlorophenol	8.033	232	25902	4.632	ug/ml	98
70) 2,3,4,6-Tetrachlorophenol	8.077	232	27186	5.051	ug/ml	98
71) Diethyl phthalate	8.204	149	99940	4.845	ug/ml	99
72) Fluorene	8.279	166	100223	5.001	ug/ml	92
73) 4-Chlorophenyl phenyl ...	8.294	204	53566	5.035	ug/ml#	80
74) 4-Nitroaniline	8.300	138	18799	4.930	ug/ml#	87
75) 4,6-Dinitro-o-cresol	8.338	198	11395	4.293	ug/ml#	62
76) NDPA/DPA	8.409	169	88238	5.104	ug/ml	94
77) Azobenzene	8.443	77	86329	4.992	ug/ml	96
79) 4-Bromophenyl phenyl e...	8.763	248	32221	4.877	ug/ml#	81
80) Hexachlorobenzene	8.819	284	36759	4.831	ug/ml#	82
81) Pentachlorophenol	9.009	266	20177	4.255	ug/ml	98
88) Phenanthrene	9.202	178	170999	4.963	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : ABN0605.D
Acq On : 5 Jun 2024 8:58 am
Operator : Dakota:sz
Sample : wg1929981-3,32,,ABN 10526 HNY0517B
Misc : wg1929981,,ical21172
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 05 09:24:35 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 09:24:57 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) Anthracene	9.251	178	172832	5.131	ug/ml	99
90) Carbazole	9.416	167	160305	4.916	ug/ml	97
91) Di-n-butylphthalate	9.798	149	166766	4.704	ug/ml	99
92) Fluoranthene	10.355	202	214076	4.868	ug/ml#	90
93) Benzidine	10.504	184	134410	5.334	ug/ml#	93
94) Pyrene	10.572	202	231342	5.009	ug/ml	100
96) Butyl benzyl phthalate	11.281	149	72776	4.480	ug/ml	85
104) Benzo(a)anthracene	11.813	228	239328M3	4.766	ug/ml	
105) 3,3'-Dichlorobenzidine	11.806	252	88533	5.137	ug/ml#	96
106) Chrysene	11.850	228	227429	4.942	ug/ml	98
107) Bis(2-ethylhexyl)phtha...	11.918	149	113109	4.660	ug/ml#	90
108) Di-n-octylphthalate	12.599	149	191203M3	4.618	ug/ml	
109) Benzo(b)fluoranthene	12.922	252	248339M3	4.807	ug/ml	
110) Benzo(k)fluoranthene	12.950	252	242826	4.912	ug/ml#	92
111) Benzo(a)pyrene	13.236	252	229389	4.988	ug/ml#	91
113) Indeno(1,2,3-cd)pyrene	14.246	276	252908M6	4.976	ug/mL	
114) Dibenzo(a,h)anthracene	14.265	278	237281	5.087	ug/ml#	88
115) Benzo(ghi)perylene	14.464	276	232586	4.995	ug/ml#	84

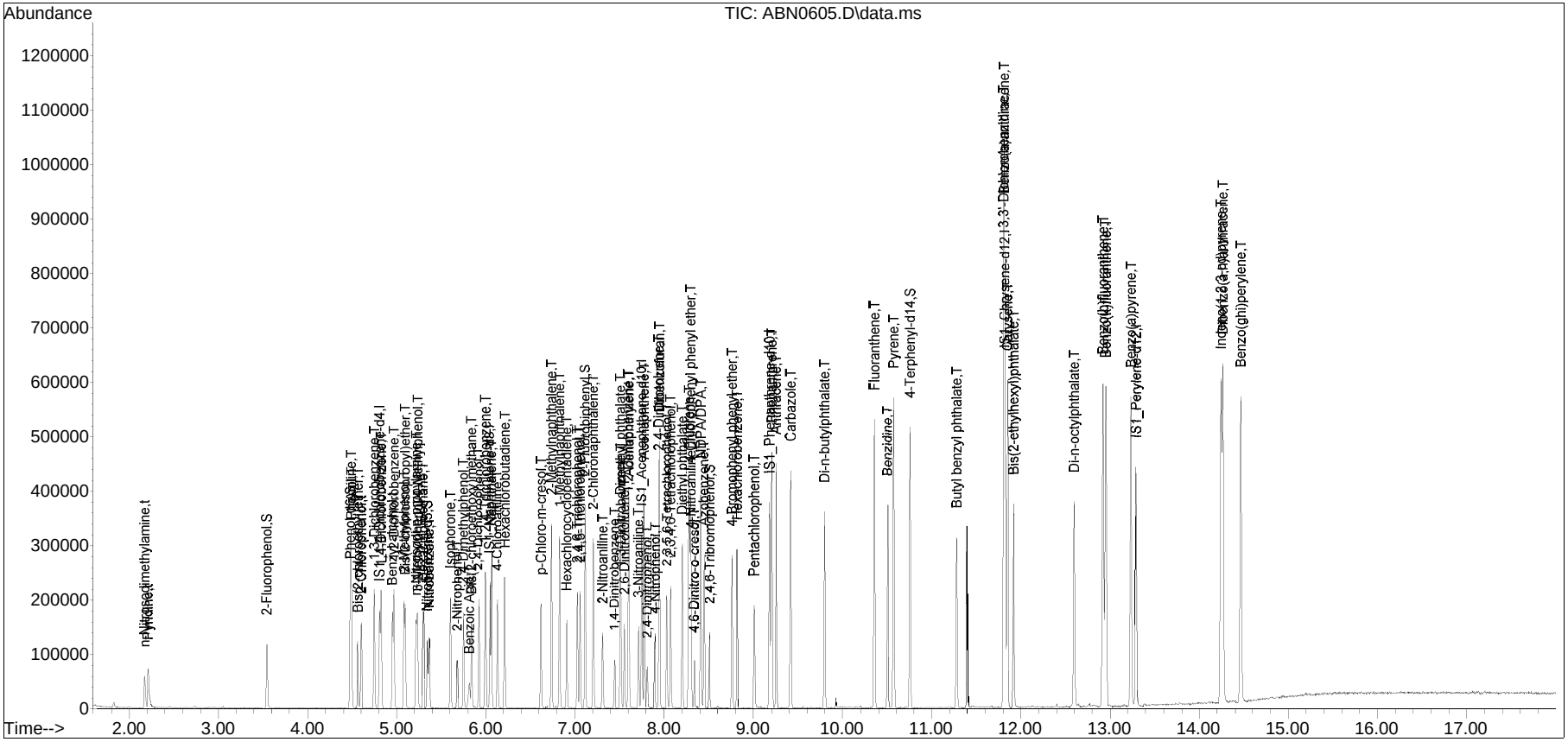
(#) = qualifier out of range (m) = manual integration (+) = signals summed

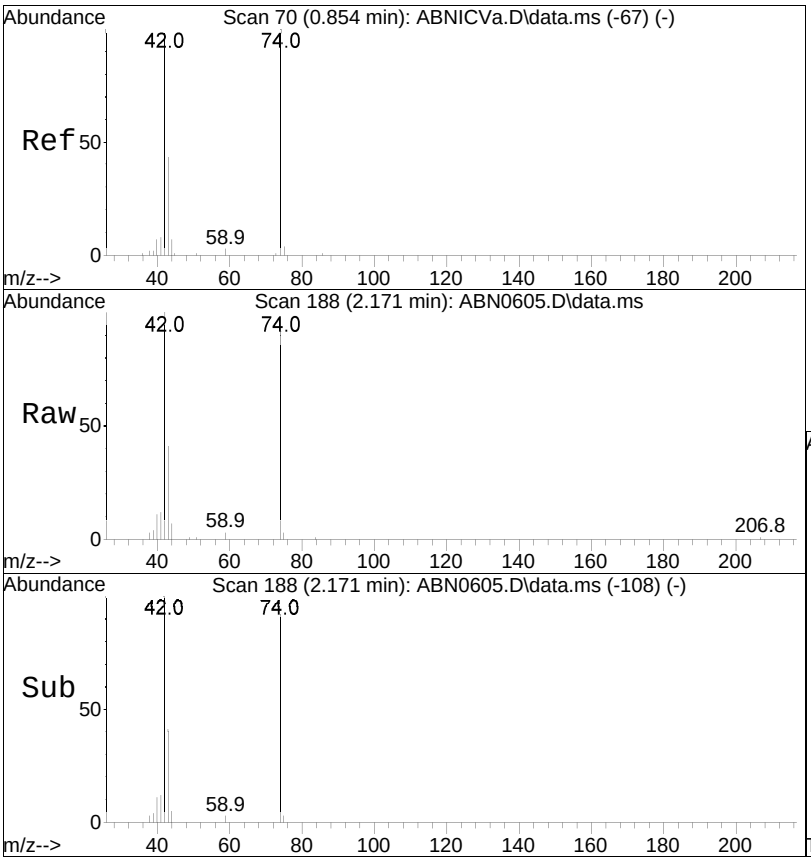
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : ABN0605.D
Acq On : 5 Jun 2024 8:58 am
Operator : Dakota:sz
Sample : wg1929981-3,32,,ABN 10526 HNY0517B
Misc : wg1929981,,ical21172
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 05 09:24:35 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 09:24:57 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

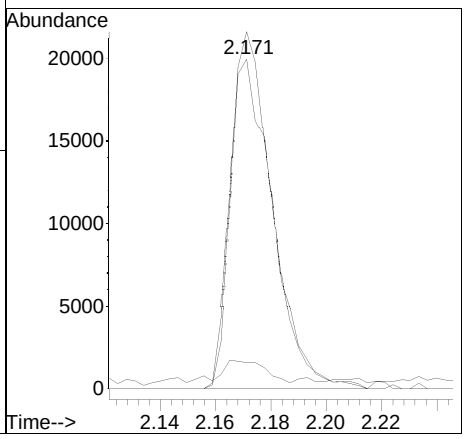


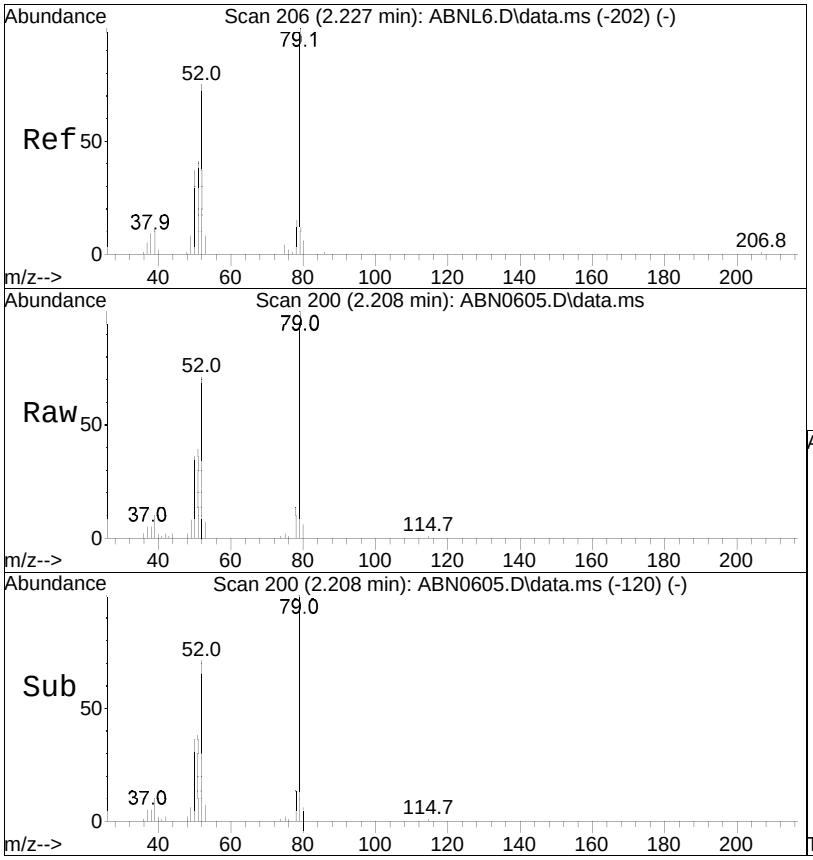


#2
n-Nitrosodimethylamine
Concen: 5.13 ug/ml
RT: 2.171 min Scan# 188
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion: 74 Resp: 21098

Ion	Ratio	Lower	Upper
74	100		
42	107.9	100.0	150.0
44	6.9	6.7	10.1

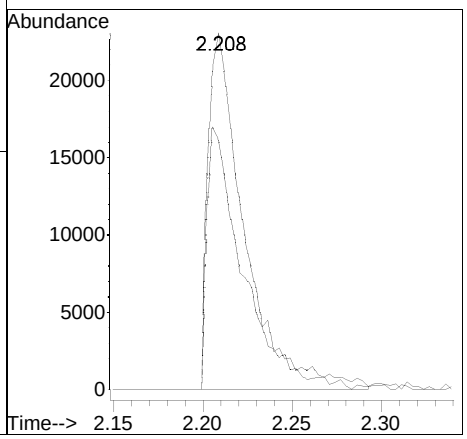


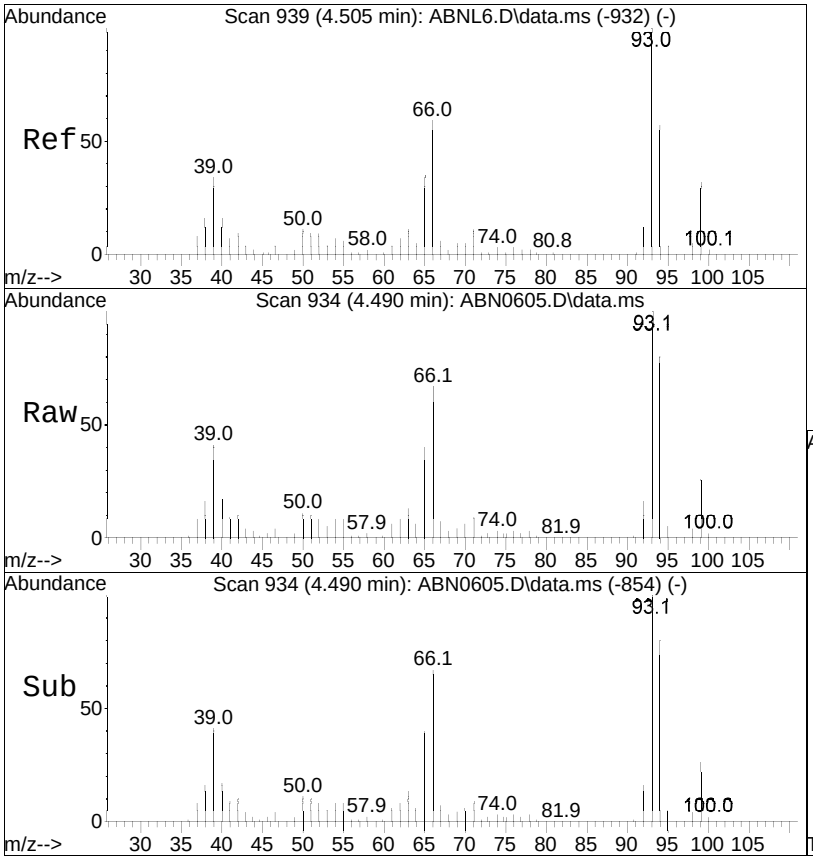


#3
Pyridine
Concen: 4.87 ug/ml
RT: 2.208 min Scan# 200
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion: 79 Resp: 32709

Ion	Ratio	Lower	Upper
79	100		
52	70.7	93.1	139.7#

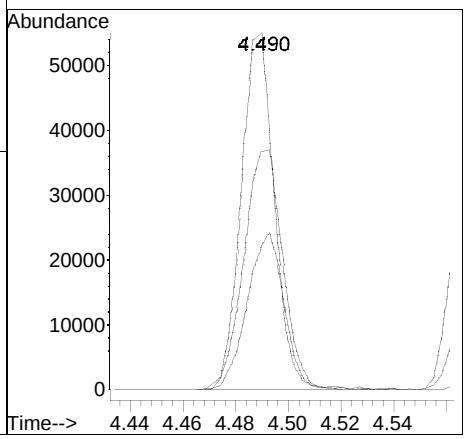


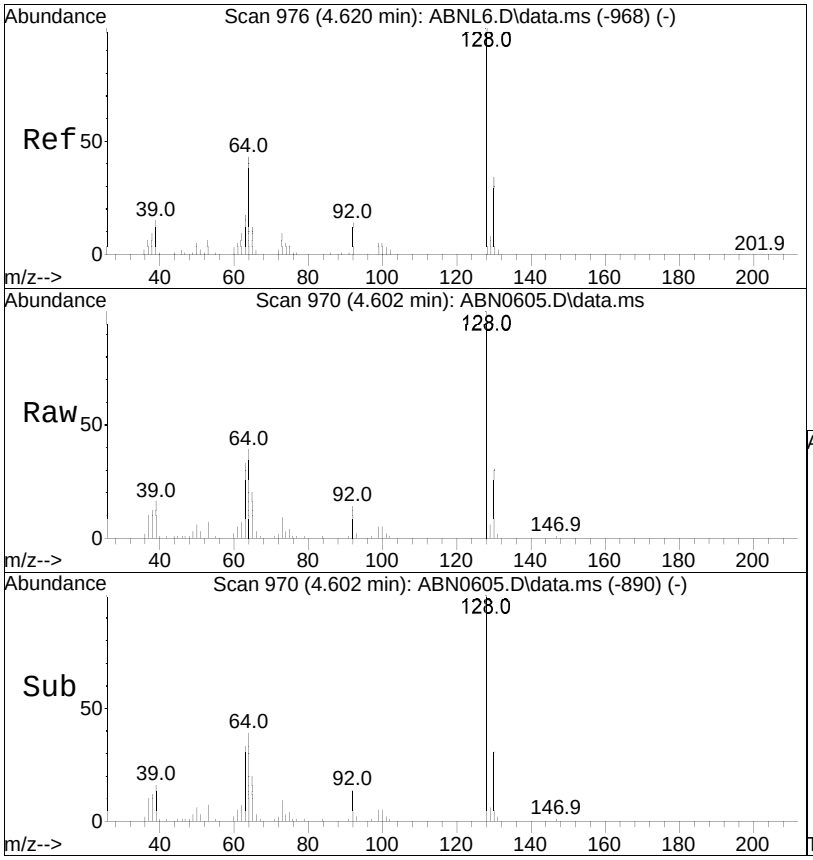


#5
Aniline
Concen: 4.62 ug/ml
RT: 4.490 min Scan# 934
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion: 93 Resp: 47927

Ion	Ratio	Lower	Upper
93	100		
66	79.0	32.6	49.0#
65	49.3	17.6	26.4#

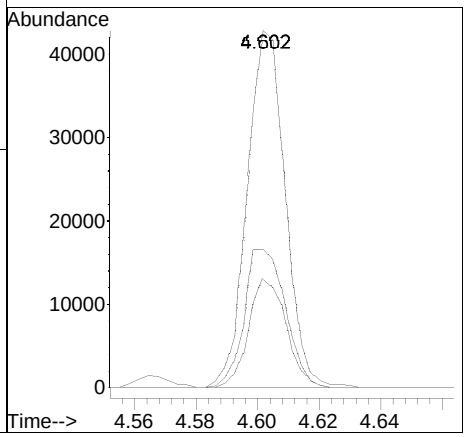


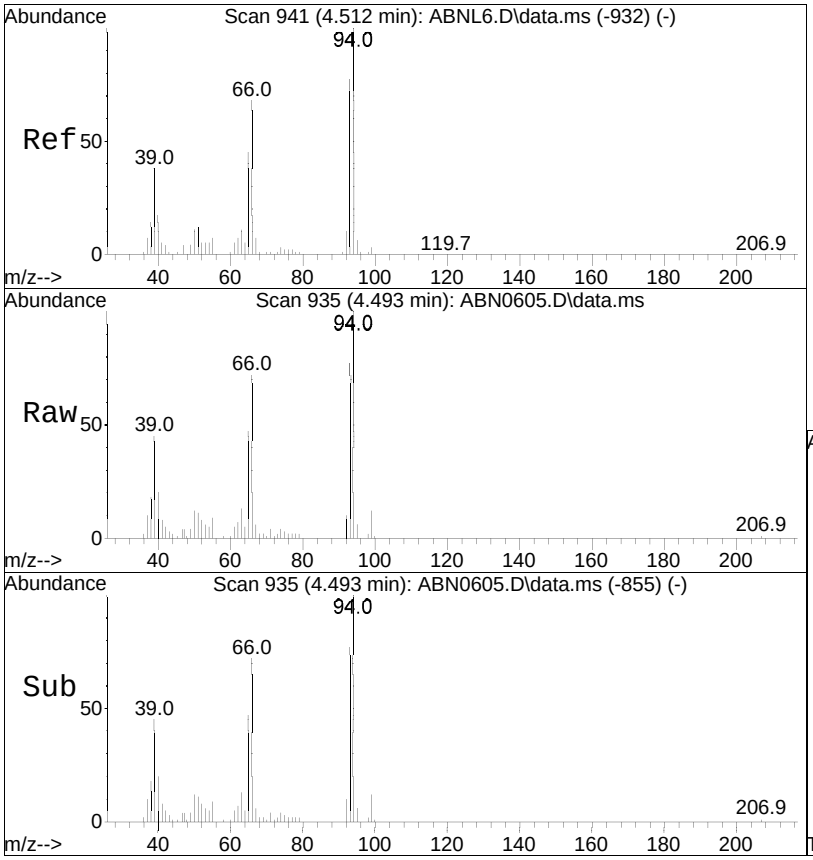


#6
2-Chlorophenol
Concen: 5.09 ug/ml
RT: 4.602 min Scan# 970
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:128 Resp: 36457

Ion	Ratio	Lower	Upper
128	100		
64	42.2	45.1	67.7#
130	30.4	26.2	39.4

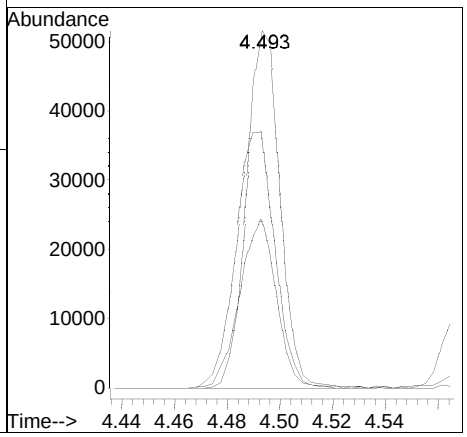


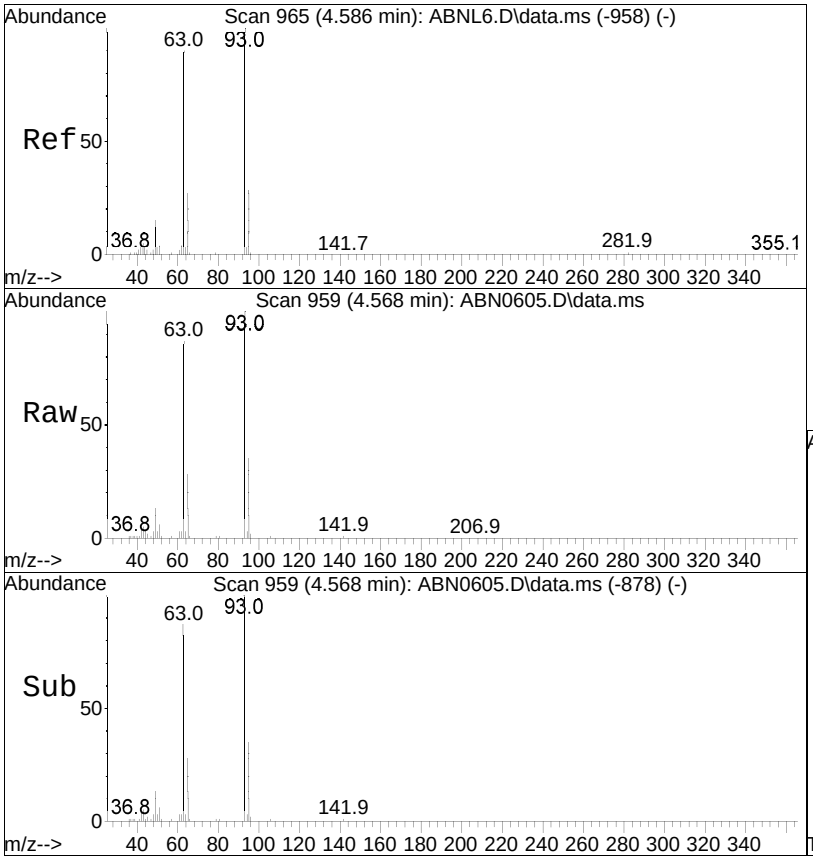


#8
Phenol
Concen: 5.12 ug/ml
RT: 4.493 min Scan# 935
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion: 94 Resp: 45527

Ion	Ratio	Lower	Upper
94	100		
65	51.9	26.0	39.0#
66	83.2	33.8	50.8#

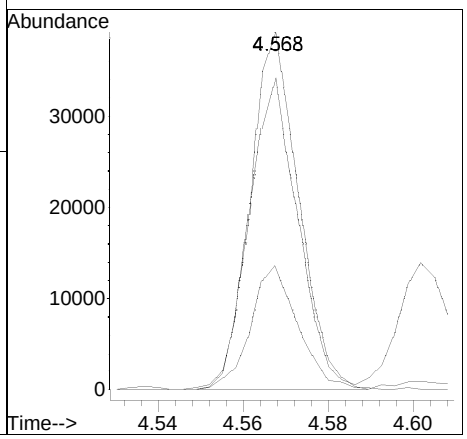


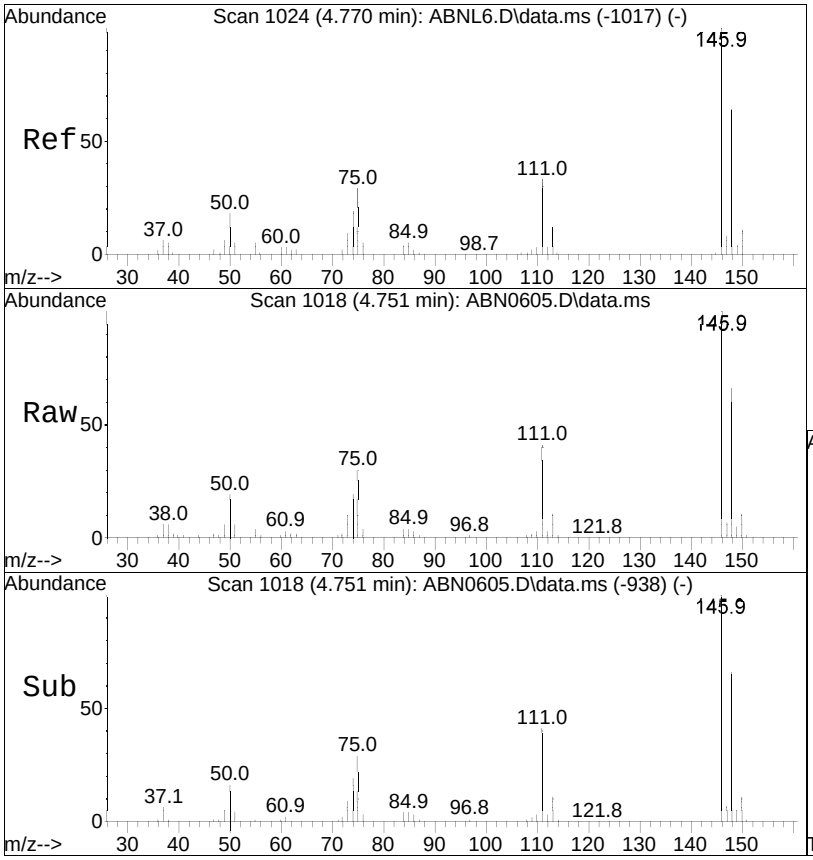


#9
Bis(2-chloroethyl)ether
Concen: 5.07 ug/ml
RT: 4.568 min Scan# 959
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion: 93 Resp: 30709

Ion	Ratio	Lower	Upper
93	100		
63	88.6	74.6	111.8
95	34.3	25.9	38.9

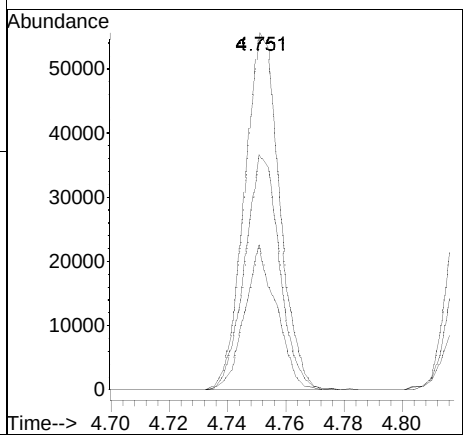


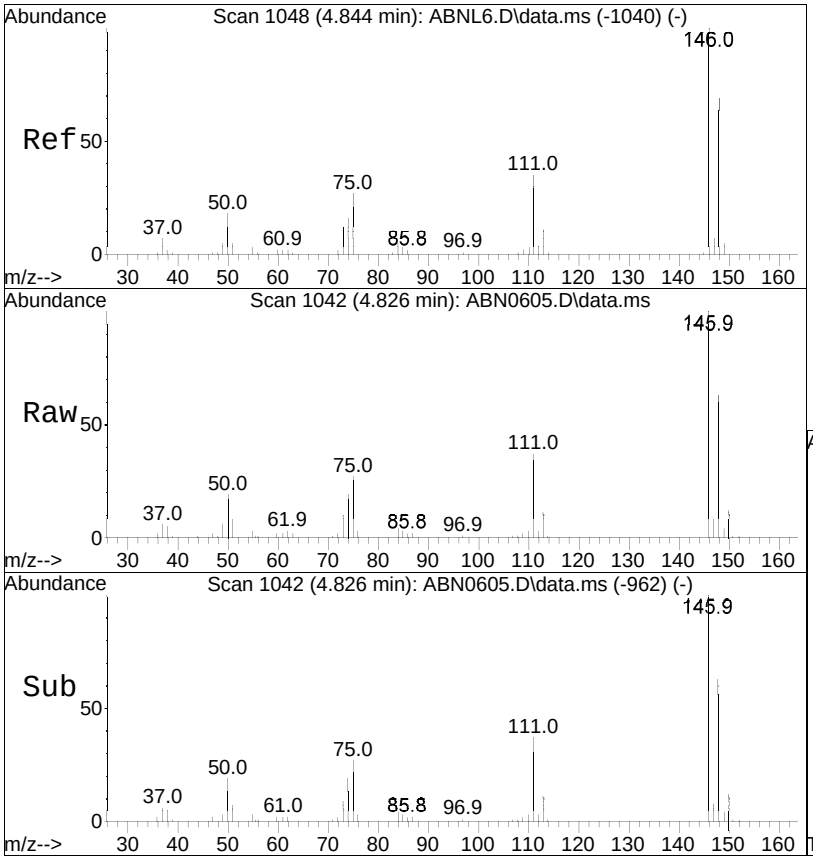


#10
1,3-Dichlorobenzene
Concen: 5.11 ug/ml
RT: 4.751 min Scan# 1018
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:146 Resp: 46390

Ion	Ratio	Lower	Upper
146	100		
111	36.9	34.3	51.5
148	65.3	50.8	76.2

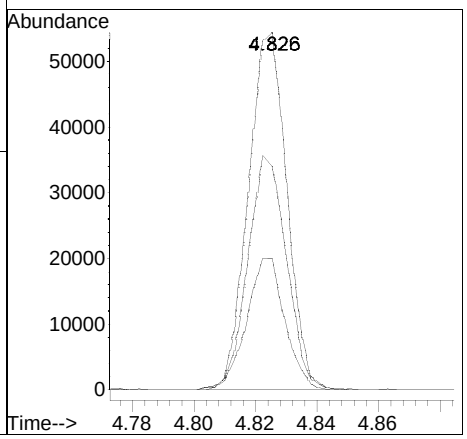


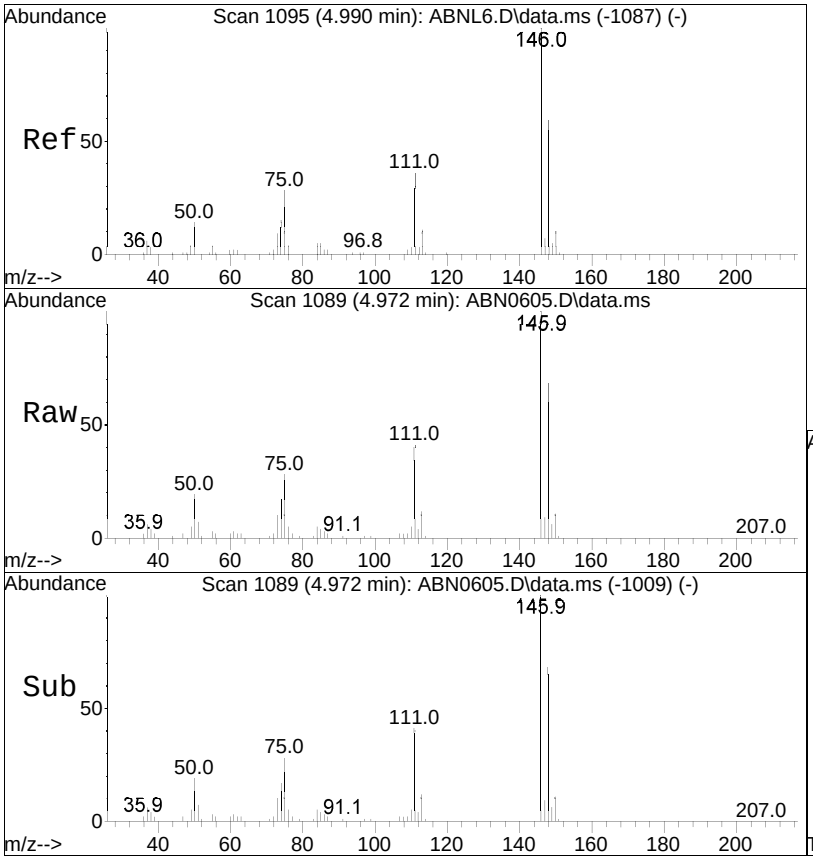


#11
1,4-Dichlorobenzene
Concen: 5.22 ug/ml
RT: 4.826 min Scan# 1042
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:146 Resp: 47042

Ion	Ratio	Lower	Upper
146	100		
148	66.0	50.7	76.1
111	36.9	33.4	50.0

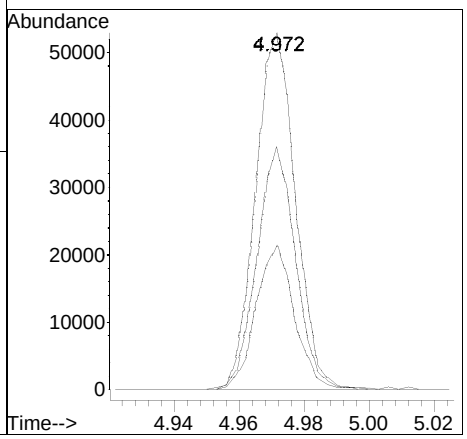


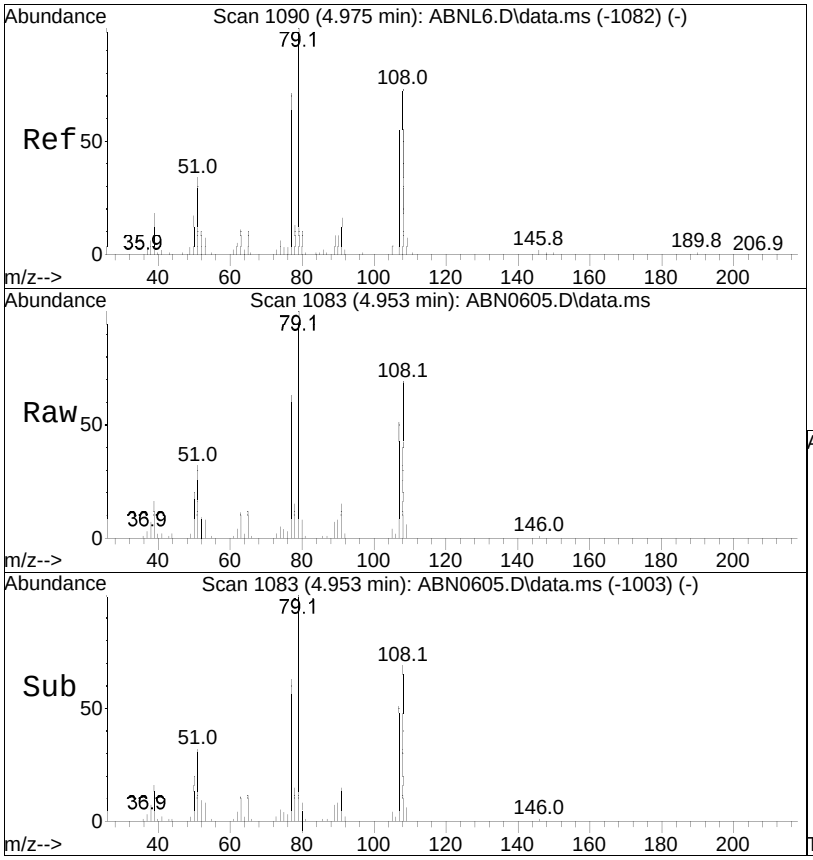


#12
1,2-Dichlorobenzene
Concen: 5.13 ug/ml
RT: 4.972 min Scan# 1089
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:146 Resp: 44664

Ion	Ratio	Lower	Upper
146	100		
111	39.2	34.6	52.0
148	65.8	50.2	75.4

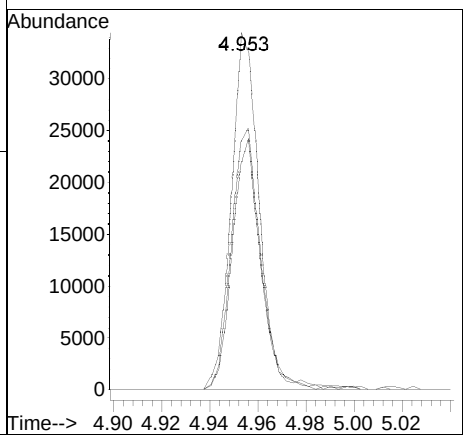


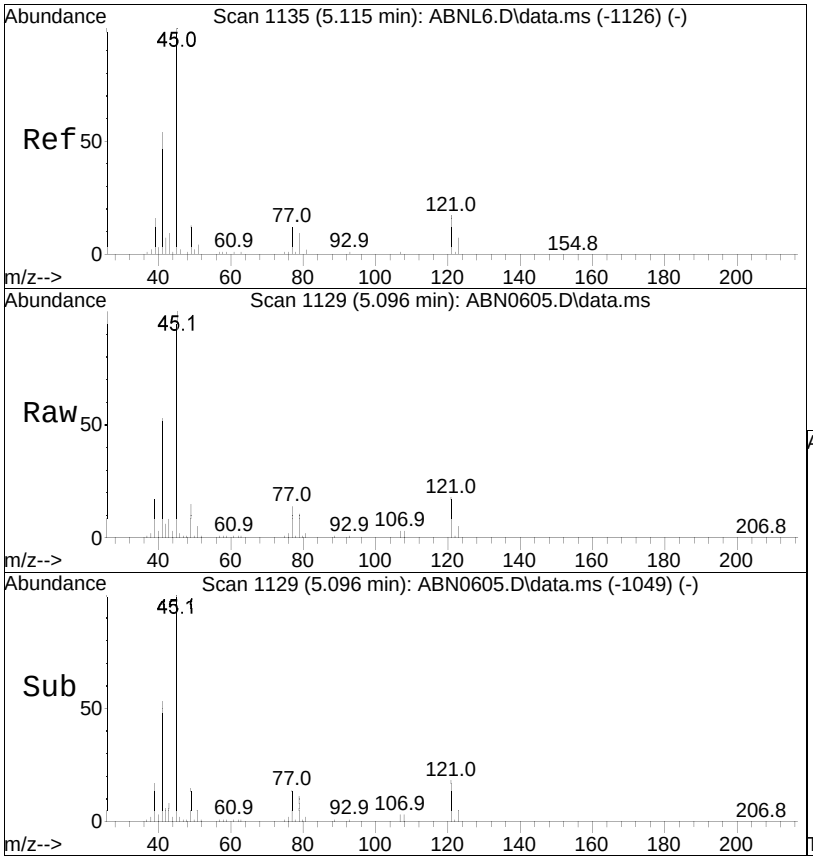


#13
Benzyl alcohol
Concen: 4.80 ug/ml
RT: 4.953 min Scan# 1083
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion: 79 Resp: 28055

Ion	Ratio	Lower	Upper
79	100		
77	70.0	54.9	82.3
108	76.5	63.1	94.7

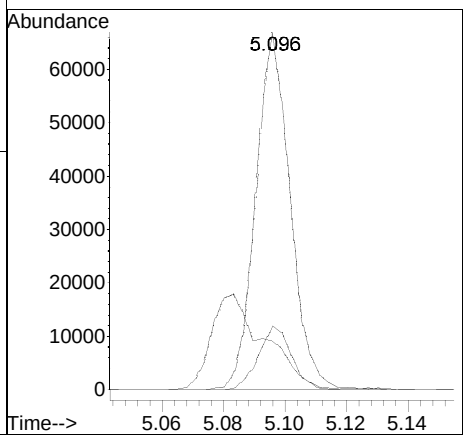


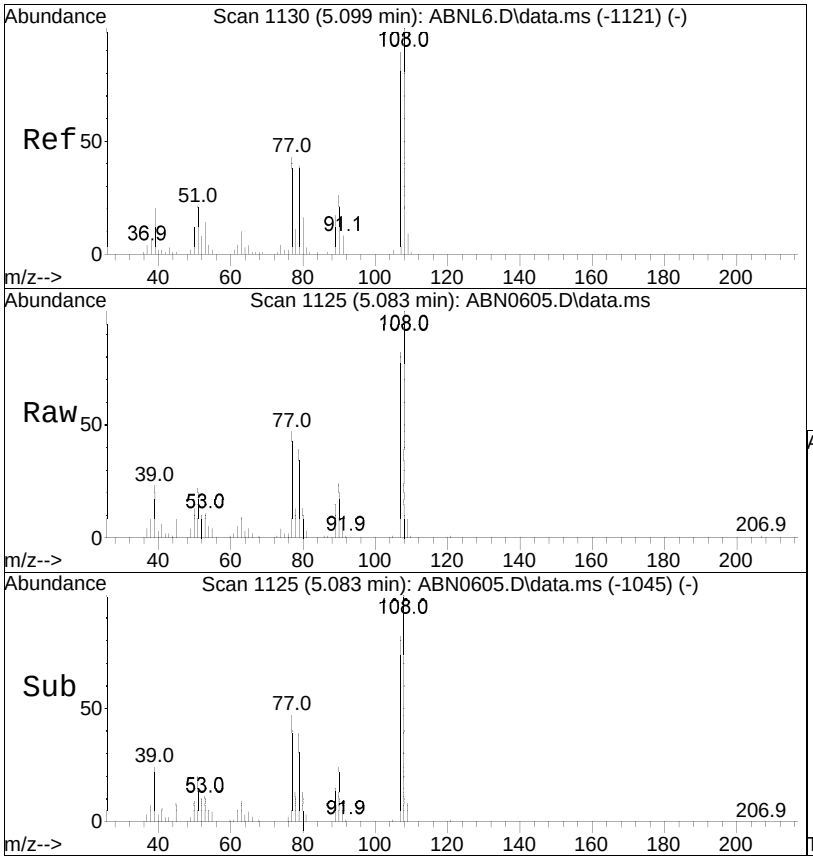


#14
Bis(2-chloroisopropyl)ether
Concen: 5.12 ug/ml
RT: 5.096 min Scan# 1129
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion: 45 Resp: 51591

Ion	Ratio	Lower	Upper
45	100		
121	17.2	9.8	14.6#
77	41.8	6.1	9.1#

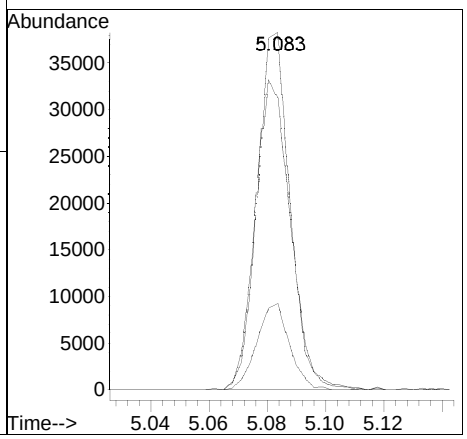


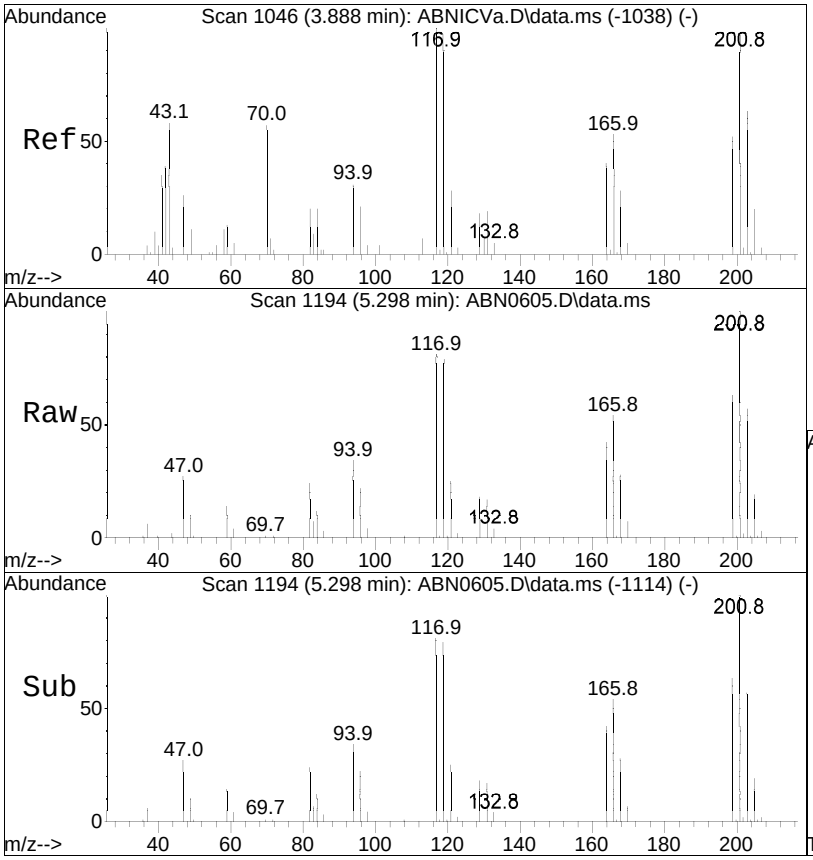


#15
2-Methylphenol
Concen: 5.09 ug/ml
RT: 5.083 min Scan# 1125
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:108 Resp: 30463

Ion	Ratio	Lower	Upper
108	100		
107	89.7	70.7	106.1
90	23.8	18.7	28.1

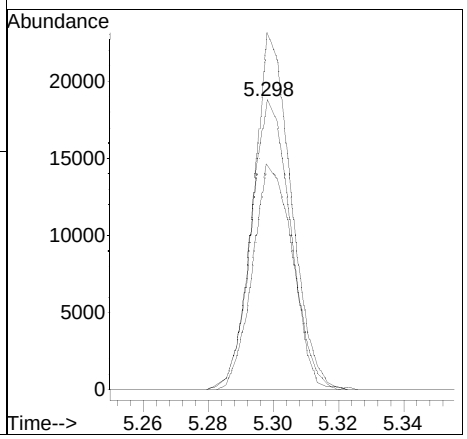


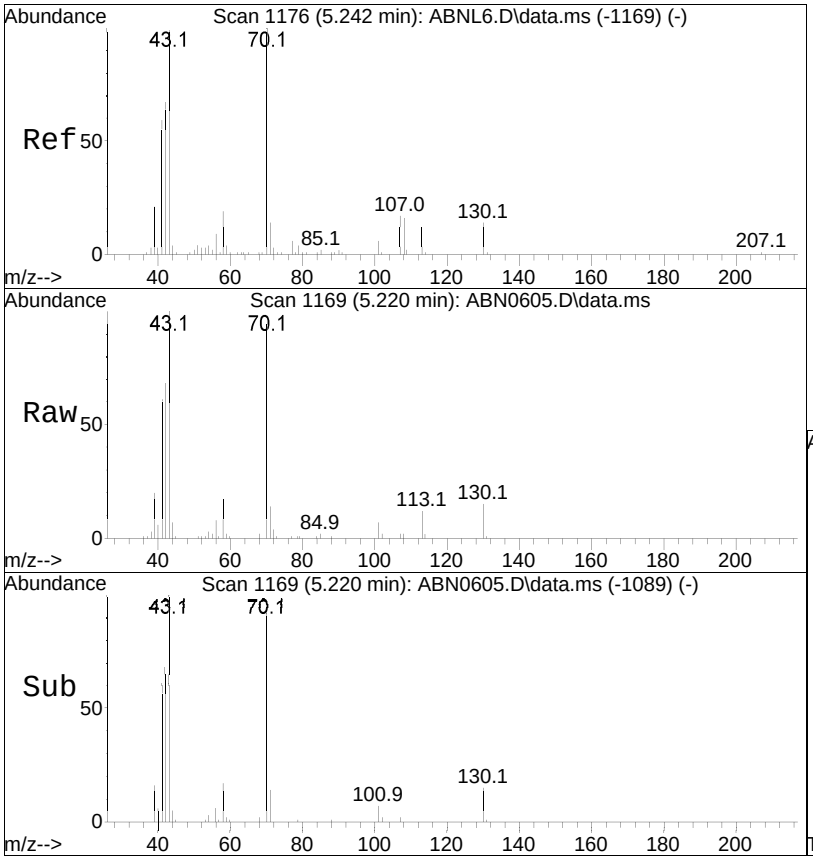


#16
Hexachloroethane
Concen: 4.91 ug/ml
RT: 5.298 min Scan# 1194
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:117 Resp: 15838

Ion	Ratio	Lower	Upper
117	100		
201	118.1	58.6	87.8#
199	79.0	36.9	55.3#

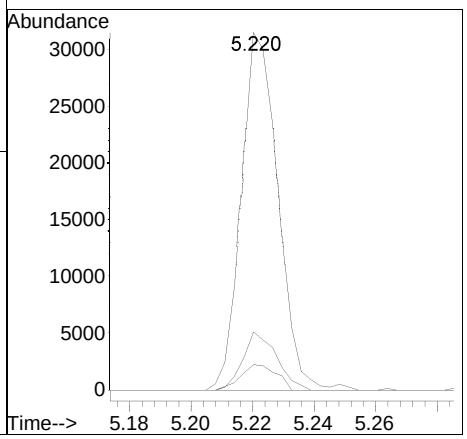


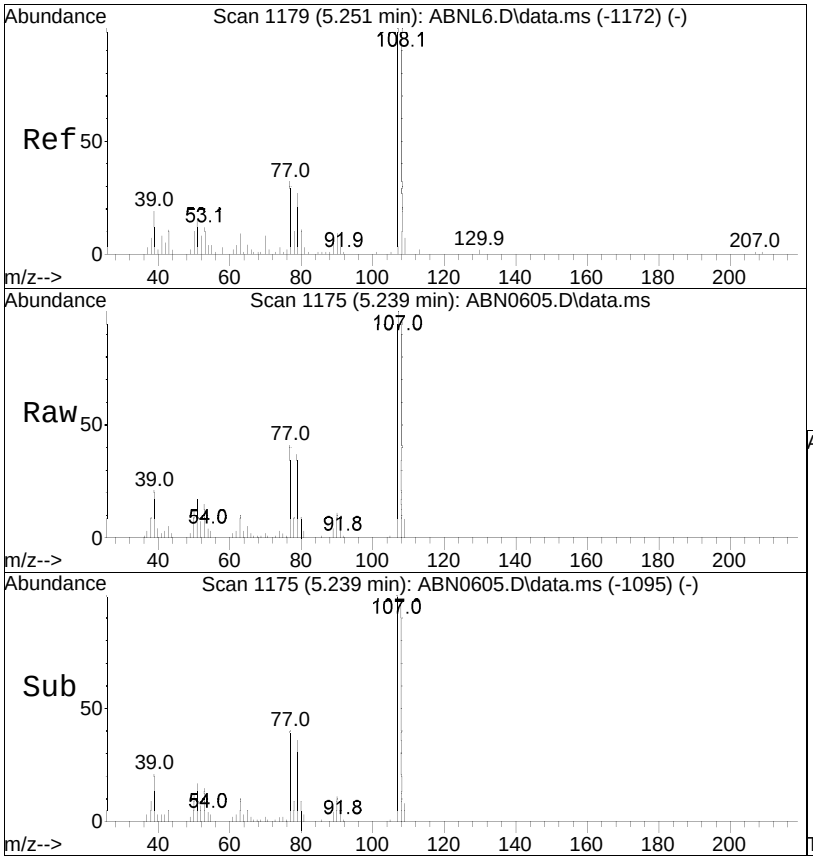


#17
n-Nitrosodi-n-propylamine
Concen: 4.84 ug/ml
RT: 5.220 min Scan# 1169
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion: 70 Resp: 26038

Ion	Ratio	Lower	Upper
70	100		
130	14.8	18.2	27.4#
101	6.9	7.8	11.8#

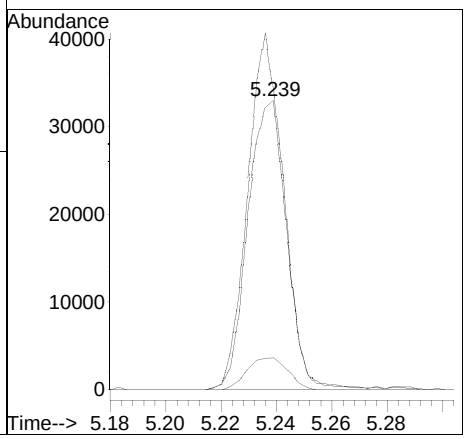


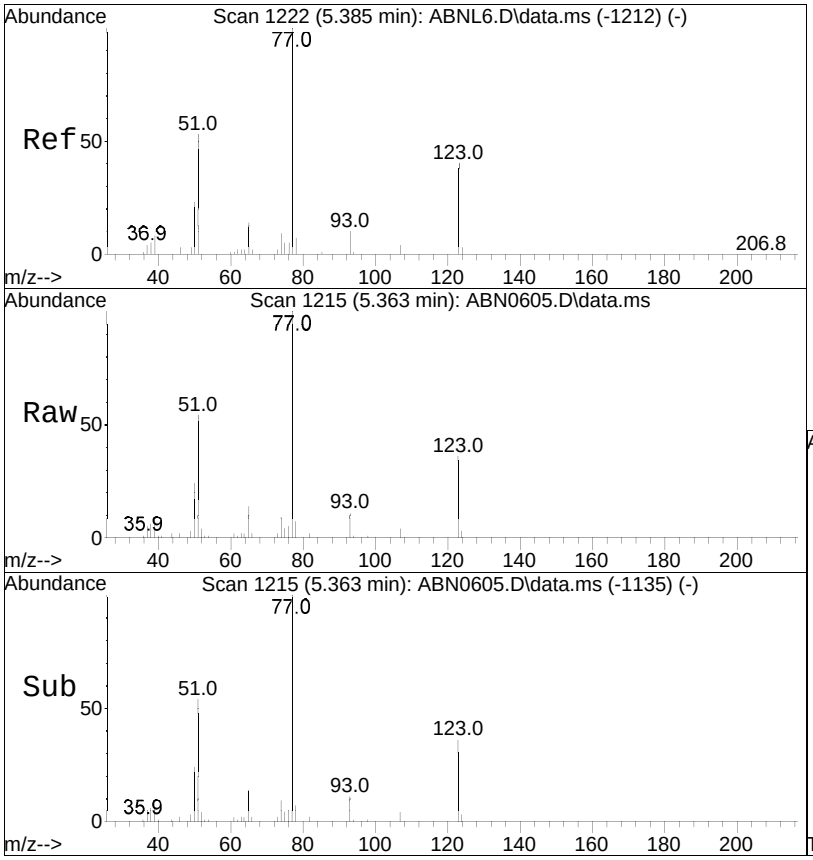


#18
3-Methylphenol/4-Methylphenol
Concen: 4.91 ug/ml
RT: 5.239 min Scan# 1175
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:108 Resp: 32054

Ion	Ratio	Lower	Upper
108	100		
107	114.8	88.6	132.8
90	11.8	8.8	13.2

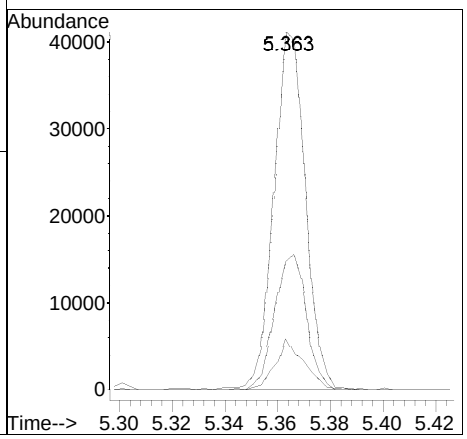


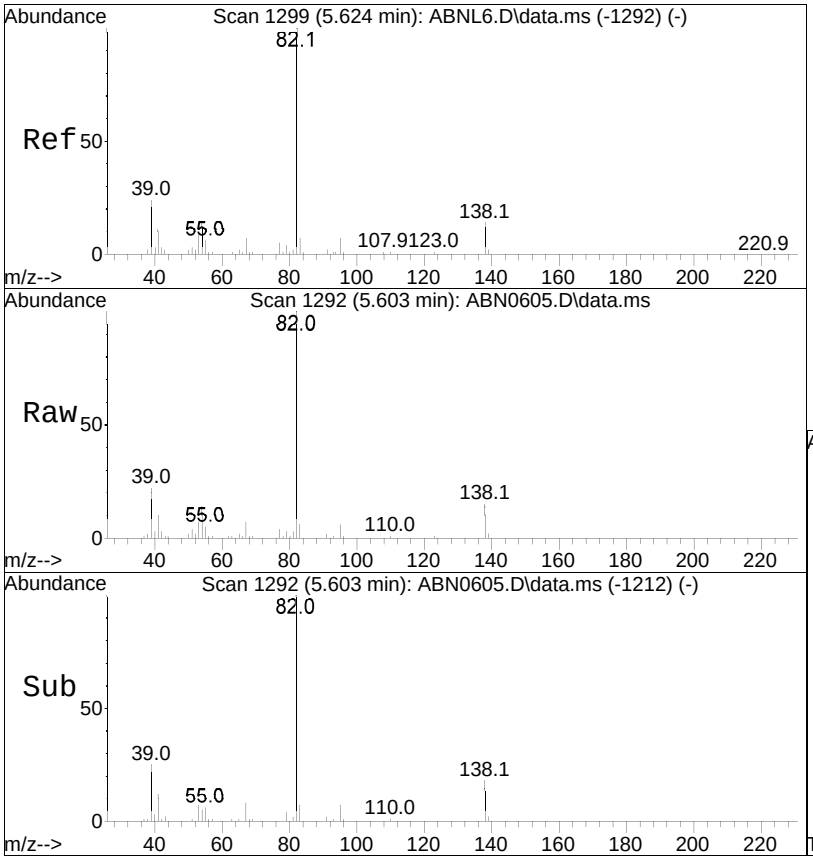


#20
Nitrobenzene
Concen: 4.91 ug/ml
RT: 5.363 min Scan# 1215
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion: 77 Resp: 33990

Ion	Ratio	Lower	Upper
77	100		
123	38.2	36.3	54.5
65	13.2	11.6	17.4

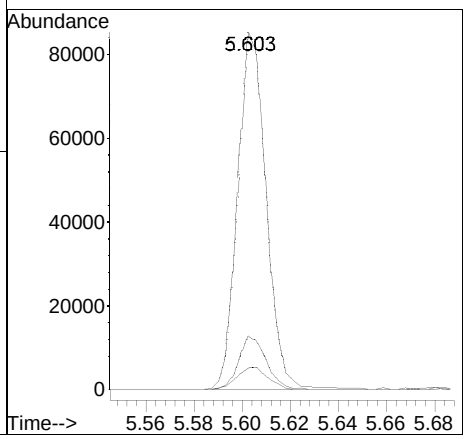


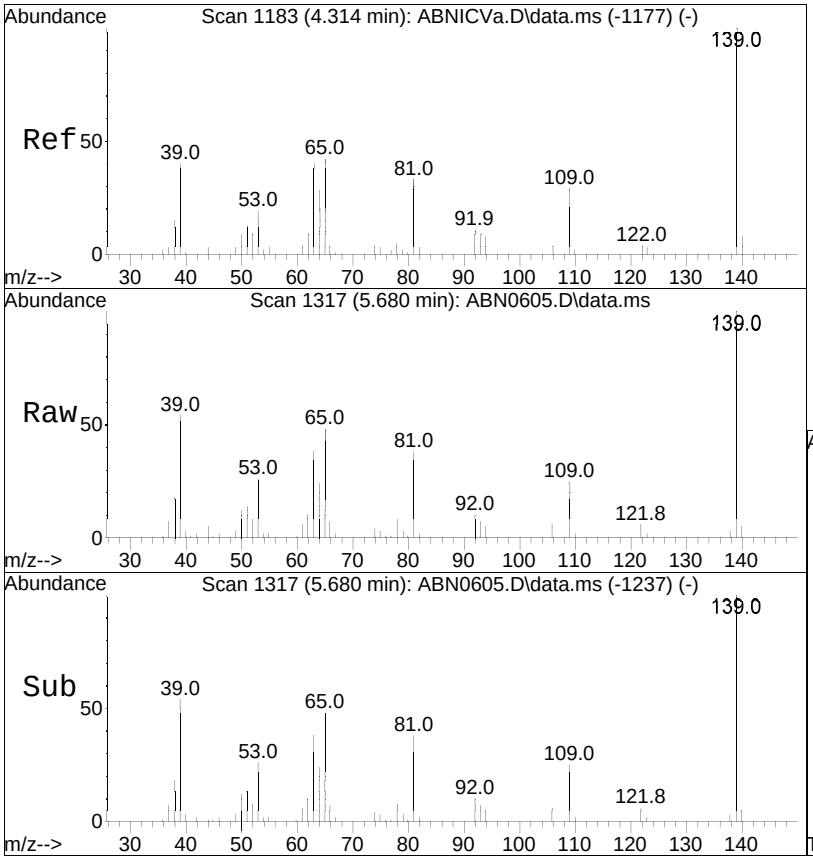


#21
Isophorone
Concen: 5.19 ug/ml
RT: 5.603 min Scan# 1292
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion: 82 Resp: 69607

Ion	Ratio	Lower	Upper
82	100		
138	14.5	14.7	22.1#
95	6.7	5.2	7.8

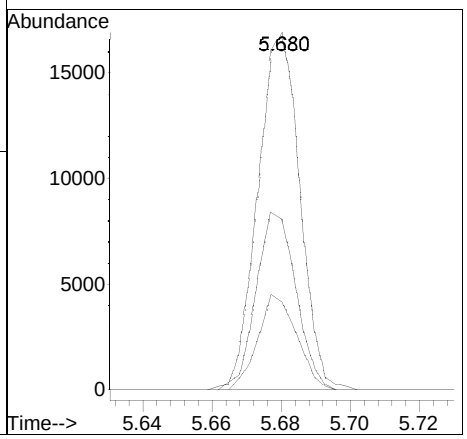


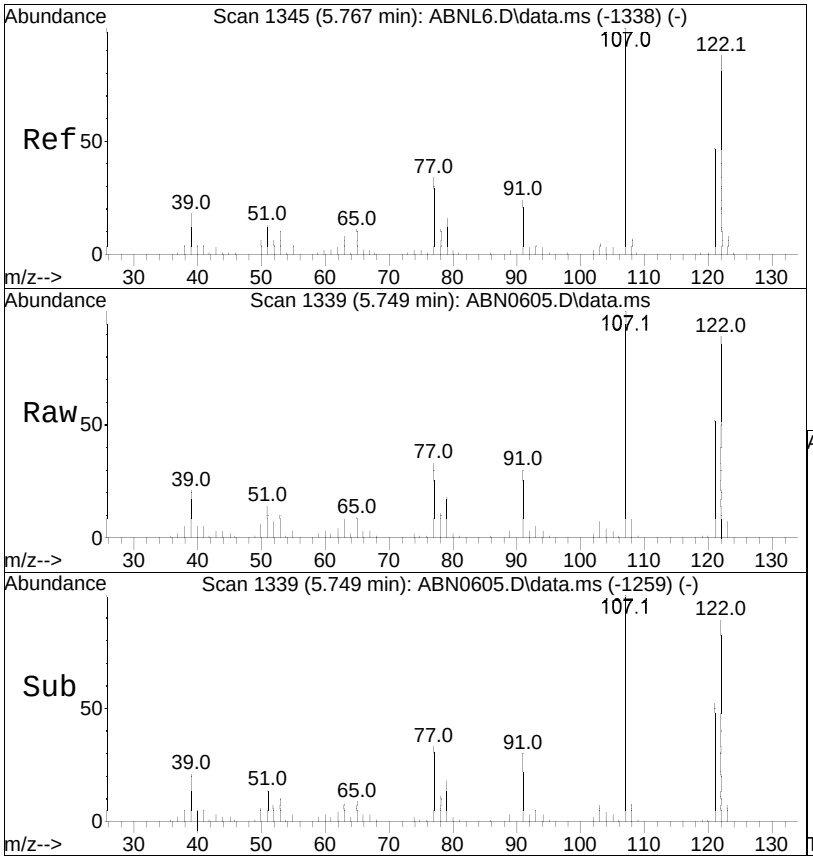


#22
2-Nitrophenol
Concen: 4.46 ug/ml
RT: 5.680 min Scan# 1317
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:139 Resp: 14123

Ion	Ratio	Lower	Upper
139	100		
109	25.0	19.4	29.0
65	47.6	46.1	69.1

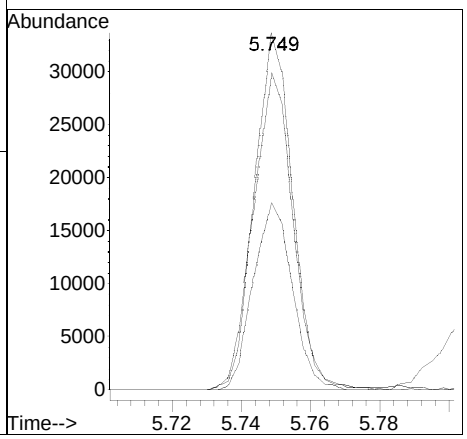


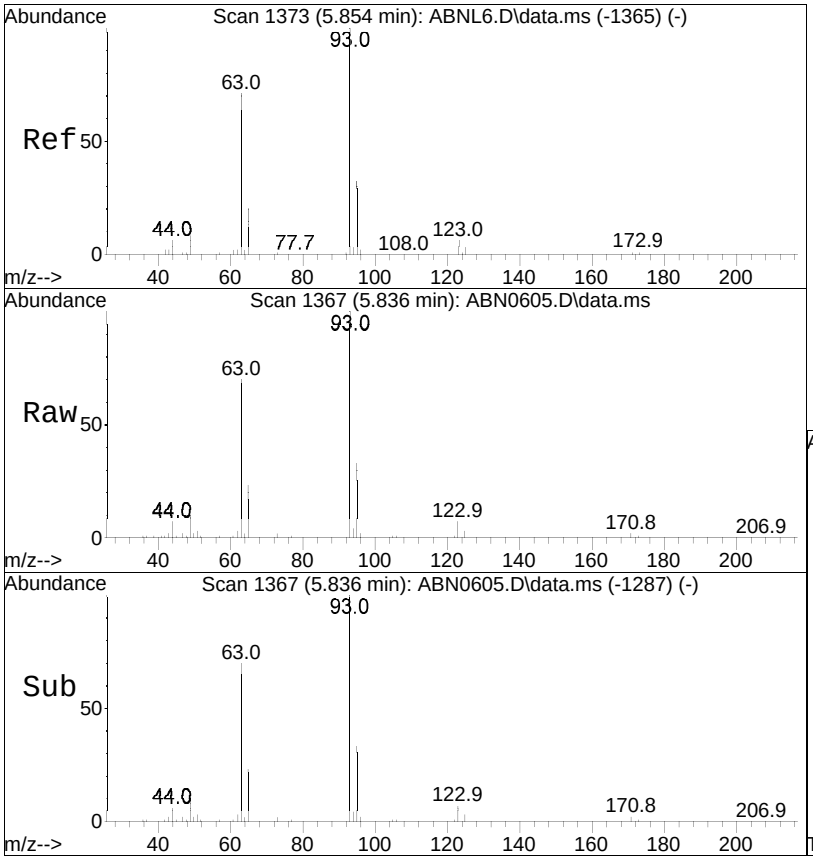


#23
2,4-Dimethylphenol
Concen: 4.20 ug/ml
RT: 5.749 min Scan# 1339
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:107 Resp: 26079

Ion	Ratio	Lower	Upper
107	100		
121	53.0	40.0	60.0
122	90.2	70.2	105.4

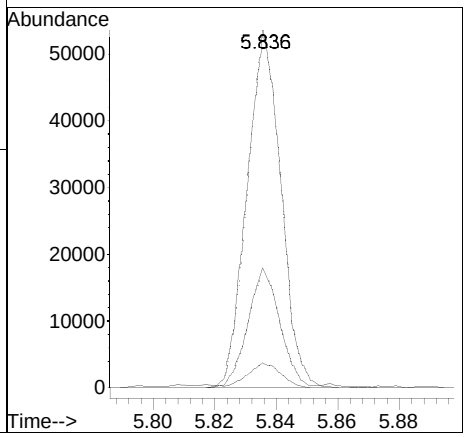


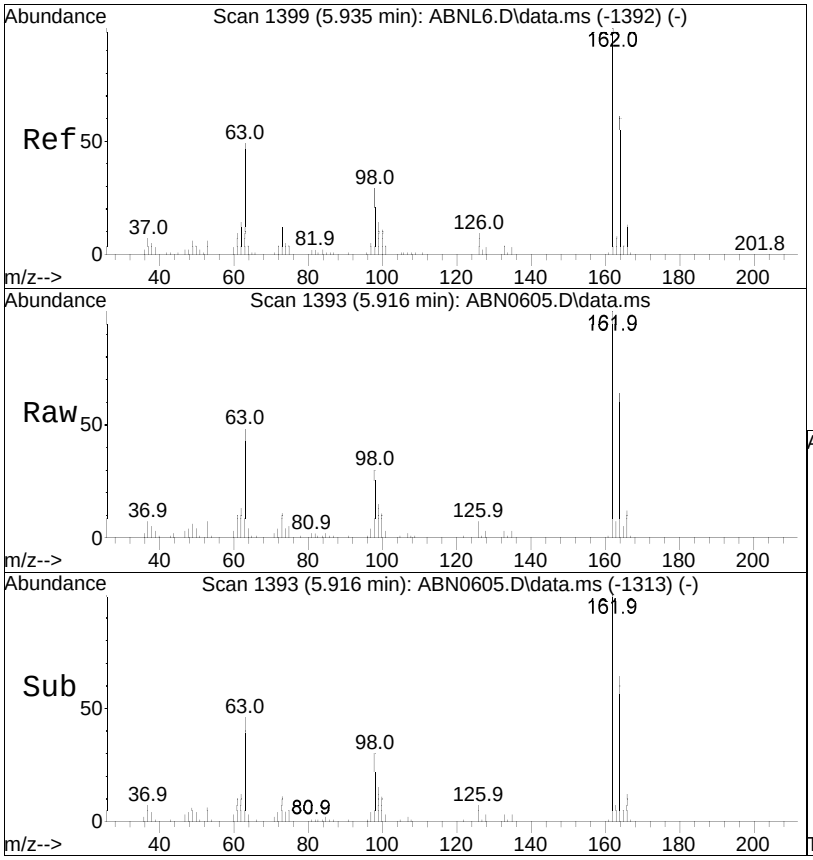


#24
Bis(2-chloroethoxy)methane
Concen: 5.07 ug/ml
RT: 5.836 min Scan# 1367
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion: 93 Resp: 40725

Ion	Ratio	Lower	Upper
93	100		
95	32.0	25.8	38.8
123	6.9	10.1	15.1#

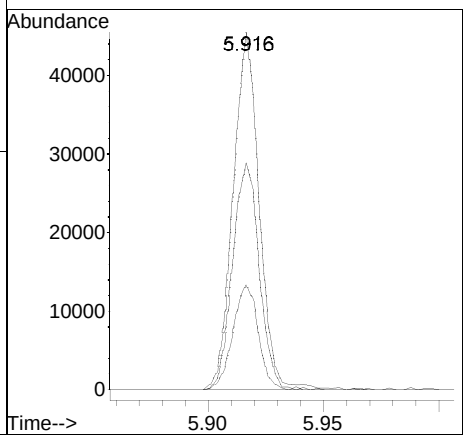


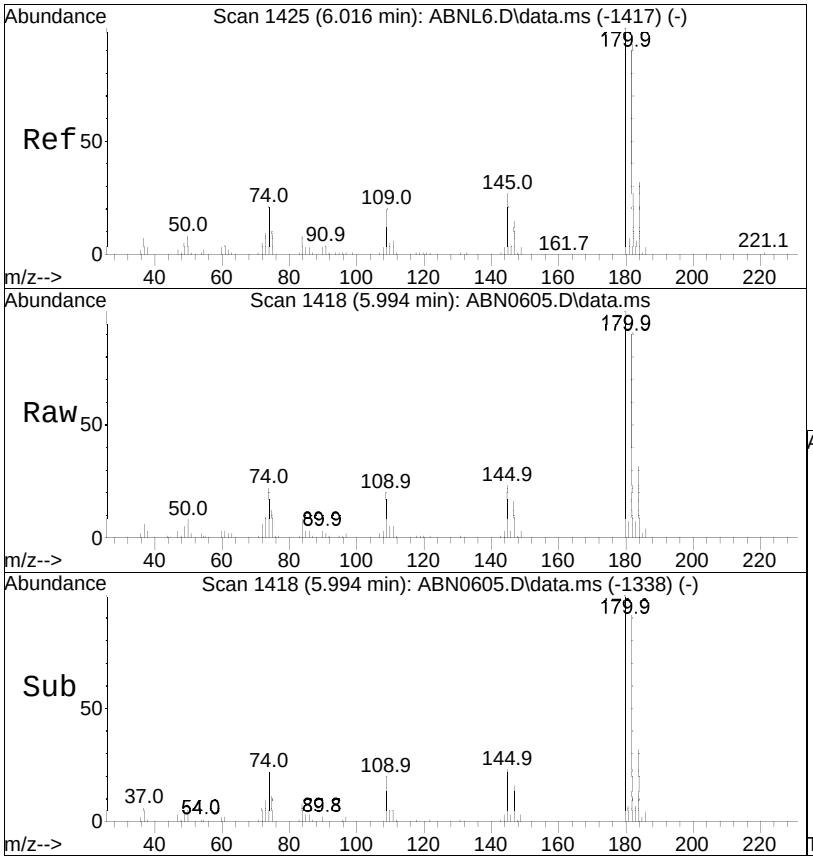


#25
2,4-Dichlorophenol
Concen: 4.91 ug/ml
RT: 5.916 min Scan# 1393
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:162 Resp: 35330

Ion	Ratio	Lower	Upper
162	100		
164	64.6	51.0	76.4
98	28.8	32.2	48.2#

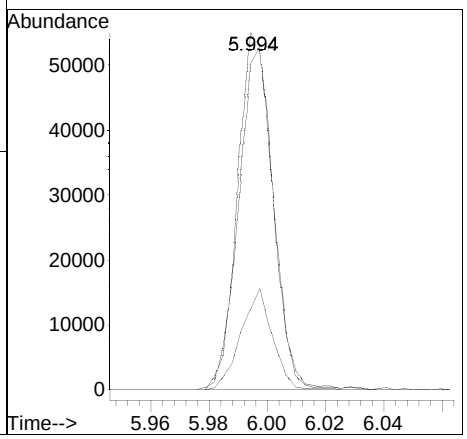


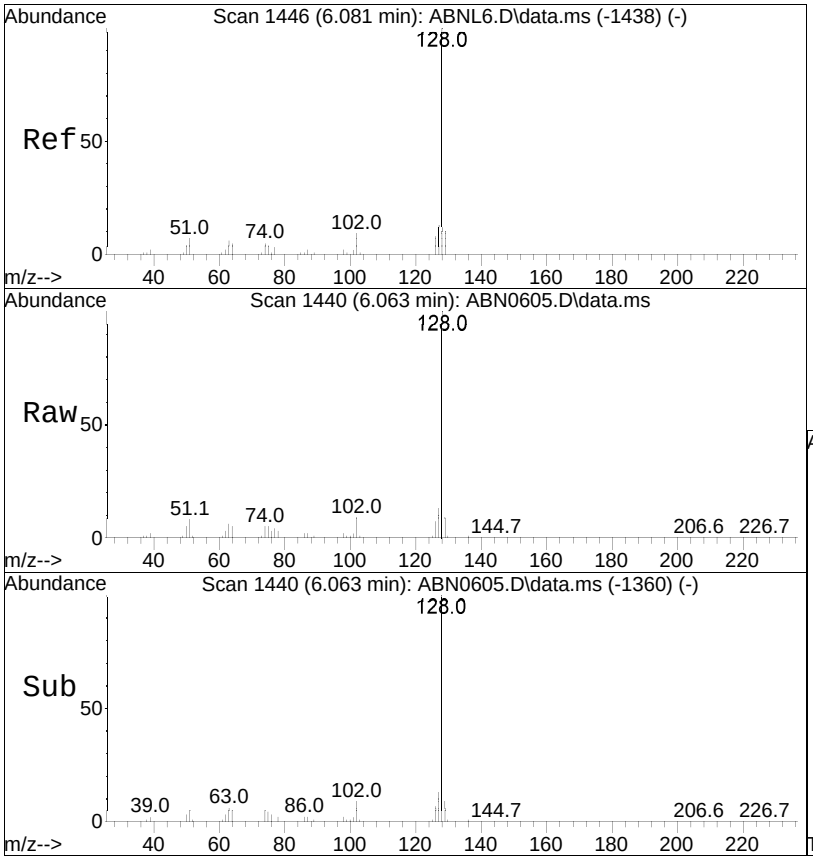


#26
1,2,4-Trichlorobenzene
Concen: 5.35 ug/ml
RT: 5.994 min Scan# 1418
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:180 Resp: 46168

Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.0	114.0
145	25.5	25.7	38.5#

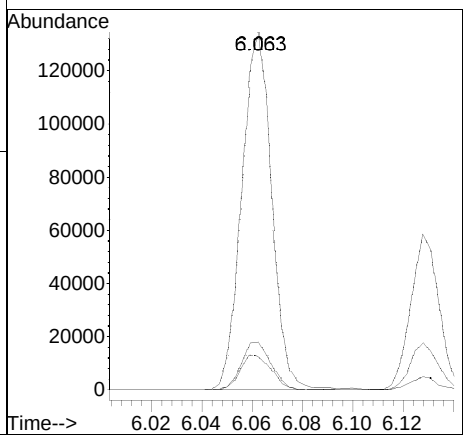


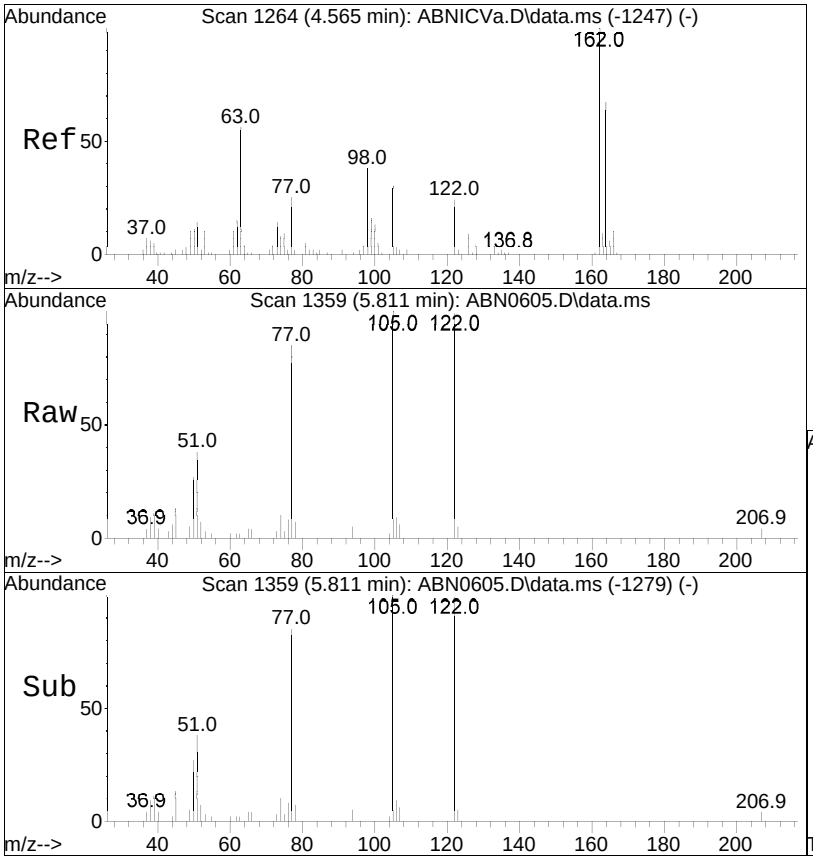


#35
Naphthalene
Concen: 4.96 ug/ml
RT: 6.063 min Scan# 1440
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:128 Resp: 110895

Ion	Ratio	Lower	Upper
128	100		
129	10.3	8.7	13.1
127	13.3	10.3	15.5

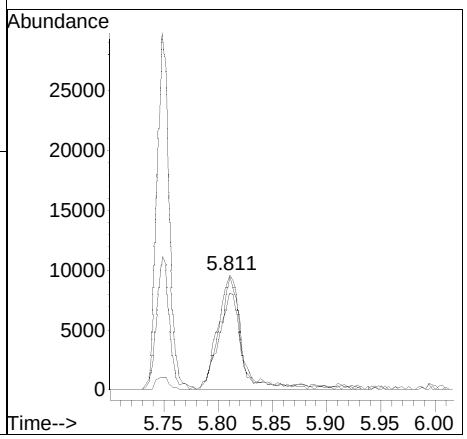


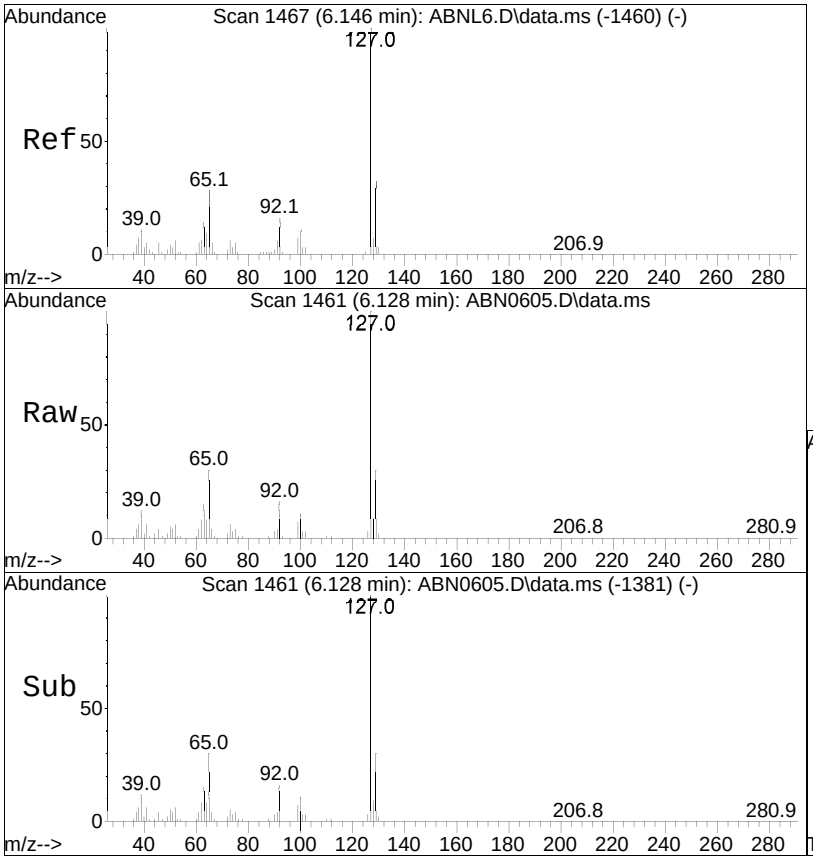


#36
Benzoic Acid
Concen: 3.86 ug/ml M1
RT: 5.811 min Scan# 1359
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:105 Resp: 15184

Ion	Ratio	Lower	Upper
105	100		
122	81.4	59.9	89.9
77	72.3	60.1	90.1

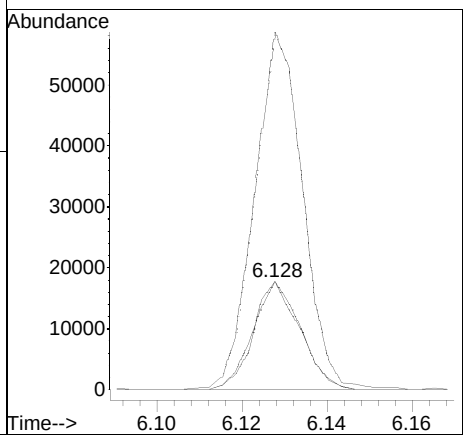


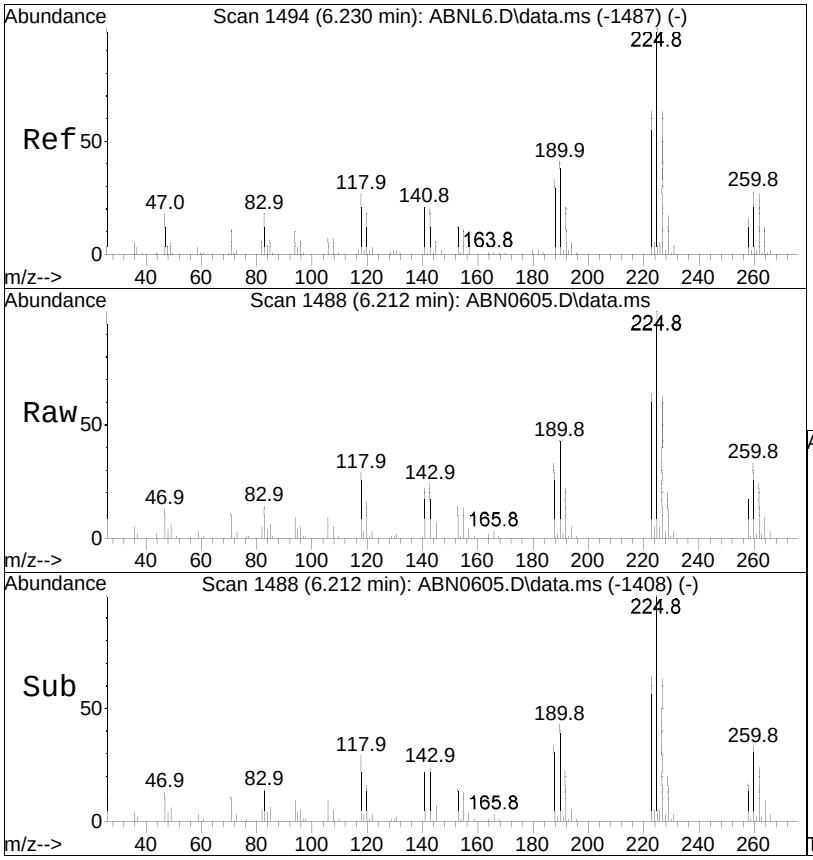


#37
4-Chloroaniline
Concen: 4.91 ug/ml
RT: 6.128 min Scan# 1461
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion: 65 Resp: 13419

Ion	Ratio	Lower	Upper
65	100		
127	339.8	237.6	356.4
129	101.2	76.3	114.5

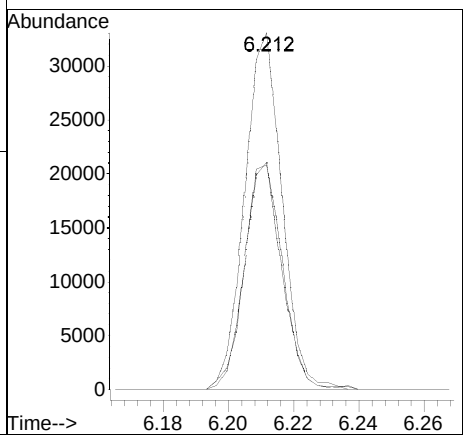


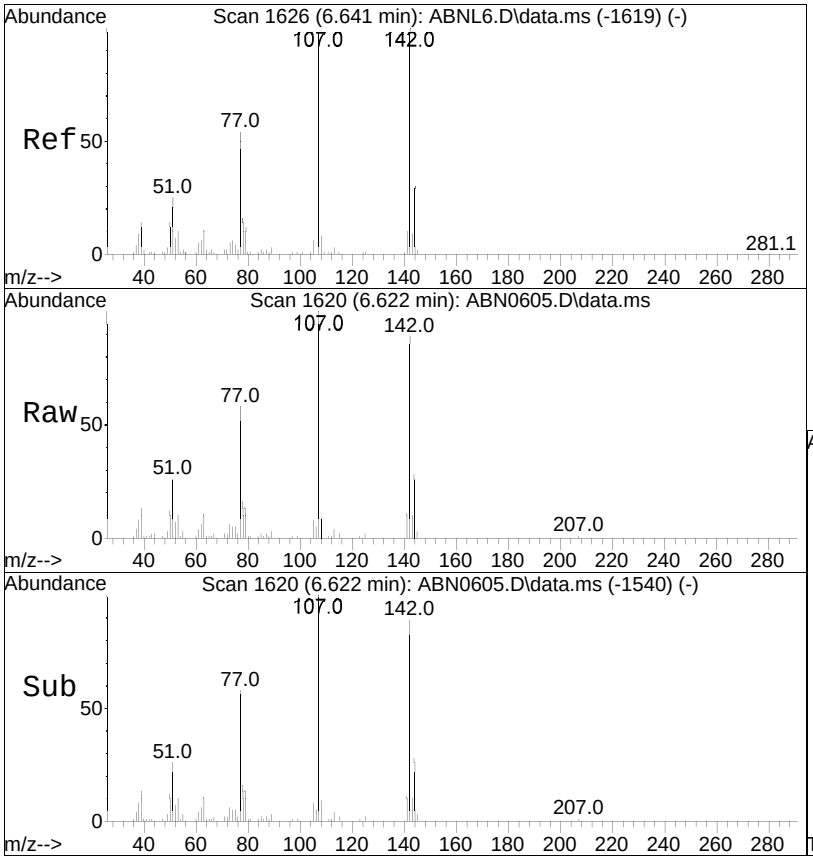


#38
Hexachlorobutadiene
Concen: 4.97 ug/ml
RT: 6.212 min Scan# 1488
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:225 Resp: 26204

Ion	Ratio	Lower	Upper
225	100		
223	63.3	50.3	75.5
227	65.2	52.2	78.2

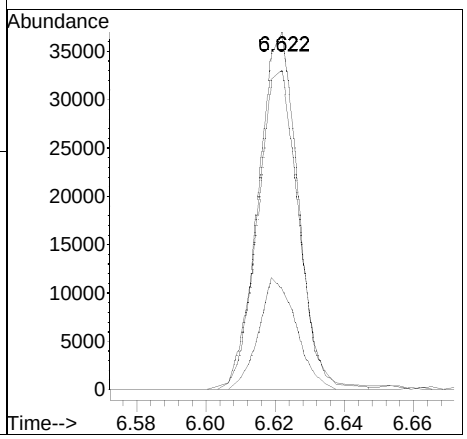


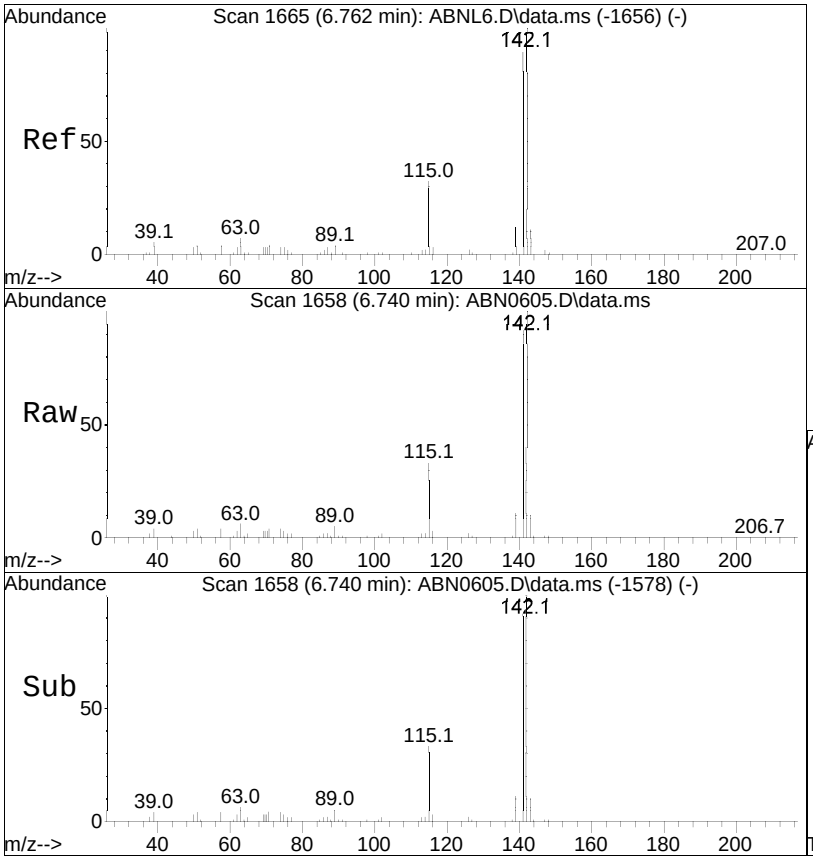


#39
p-Chloro-m-cresol
Concen: 4.83 ug/ml
RT: 6.622 min Scan# 1620
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:107 Resp: 29232

Ion	Ratio	Lower	Upper
107	100		
144	29.6	20.9	31.3
142	92.3	66.1	99.1

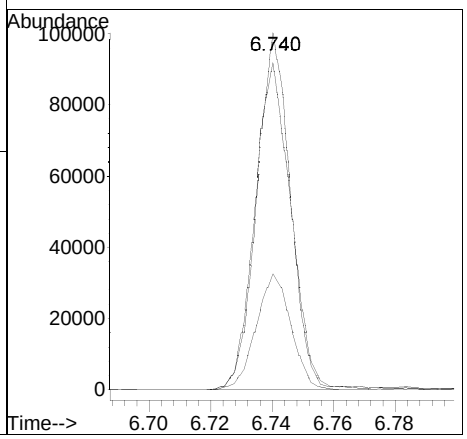


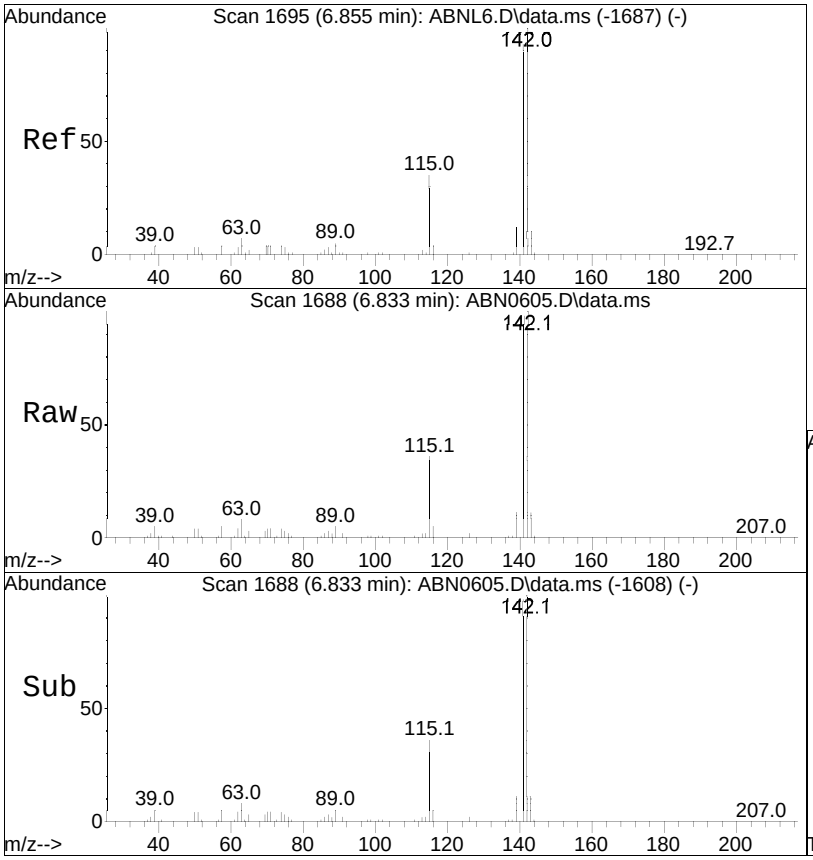


#40
2-Methylnaphthalene
Concen: 4.89 ug/ml
RT: 6.740 min Scan# 1658
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:142 Resp: 78178

Ion	Ratio	Lower	Upper
142	100		
141	93.3	69.6	104.4
115	32.8	26.6	40.0

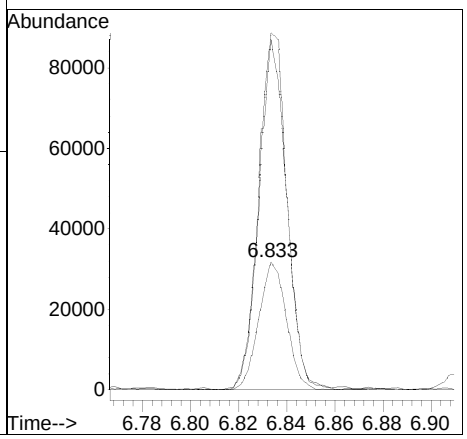


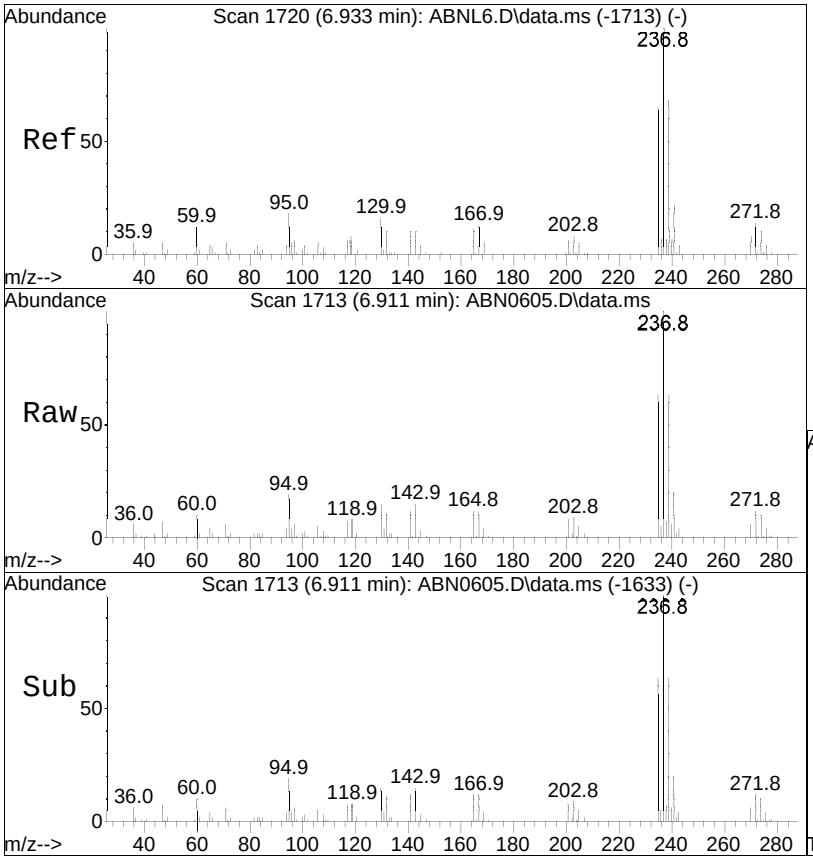


#41
1-Methylnaphthalene
Concen: 4.83 ug/ml
RT: 6.833 min Scan# 1688
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:115 Resp: 25803

Ion	Ratio	Lower	Upper
115	100		
141	266.8	207.8	311.6
142	283.0	226.8	340.2

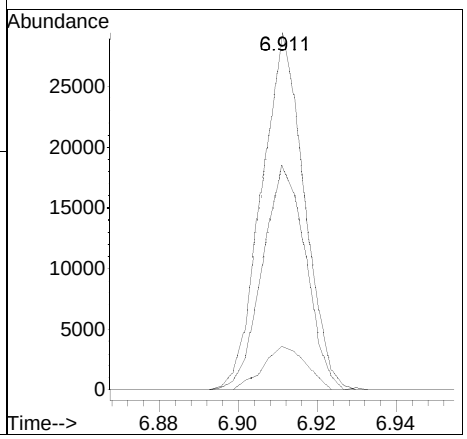


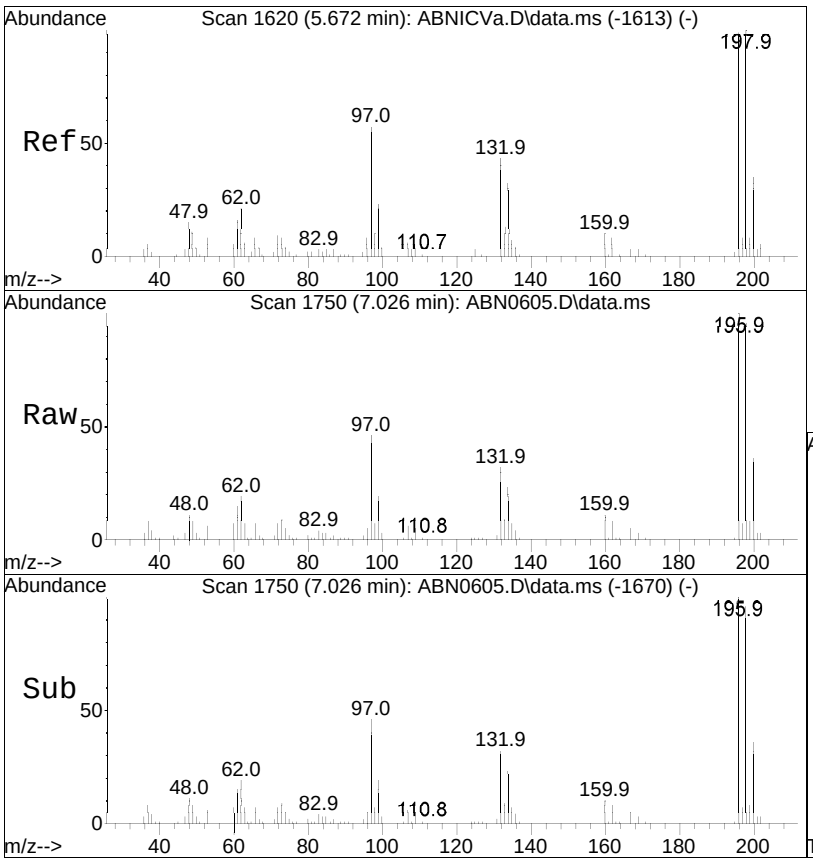


#42
Hexachlorocyclopentadiene
Concen: 3.93 ug/ml
RT: 6.911 min Scan# 1713
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:237 Resp: 22003

Ion	Ratio	Lower	Upper
237	100		
235	64.1	49.7	74.5
272	12.4	9.8	14.6

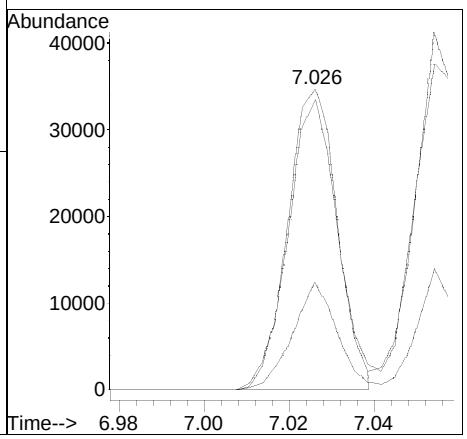


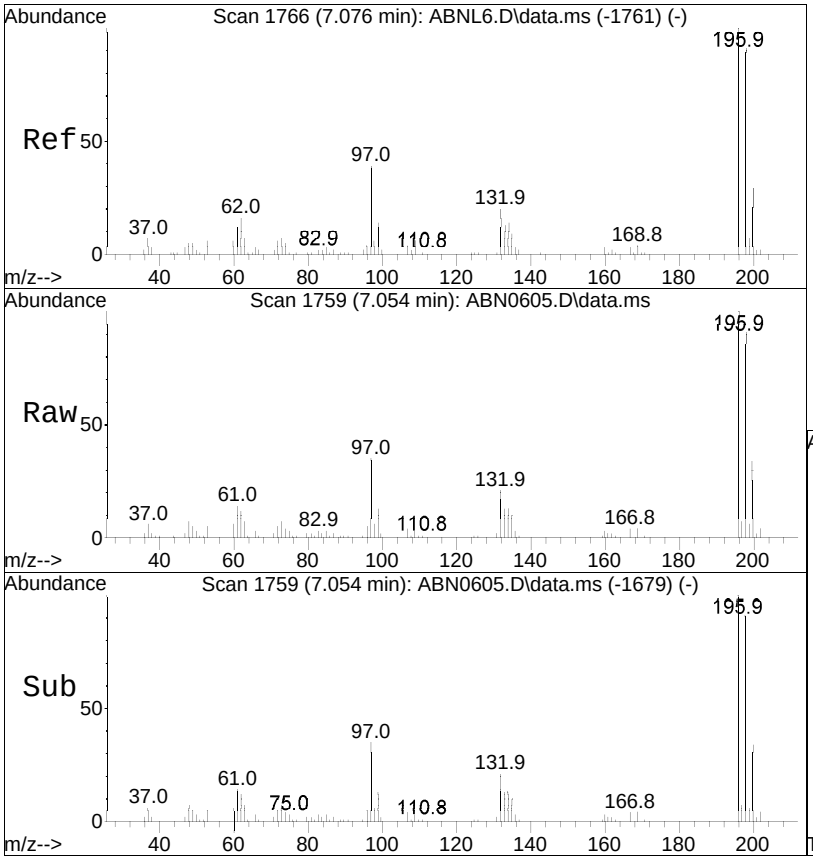


#43
2,4,6-Trichlorophenol
Concen: 4.55 ug/ml M3
RT: 7.026 min Scan# 1750
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:196 Resp: 28142

Ion	Ratio	Lower	Upper
196	100		
198	97.0	77.5	116.3
200	32.4	23.8	35.6

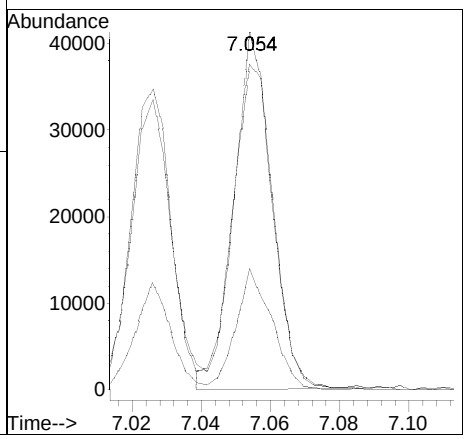


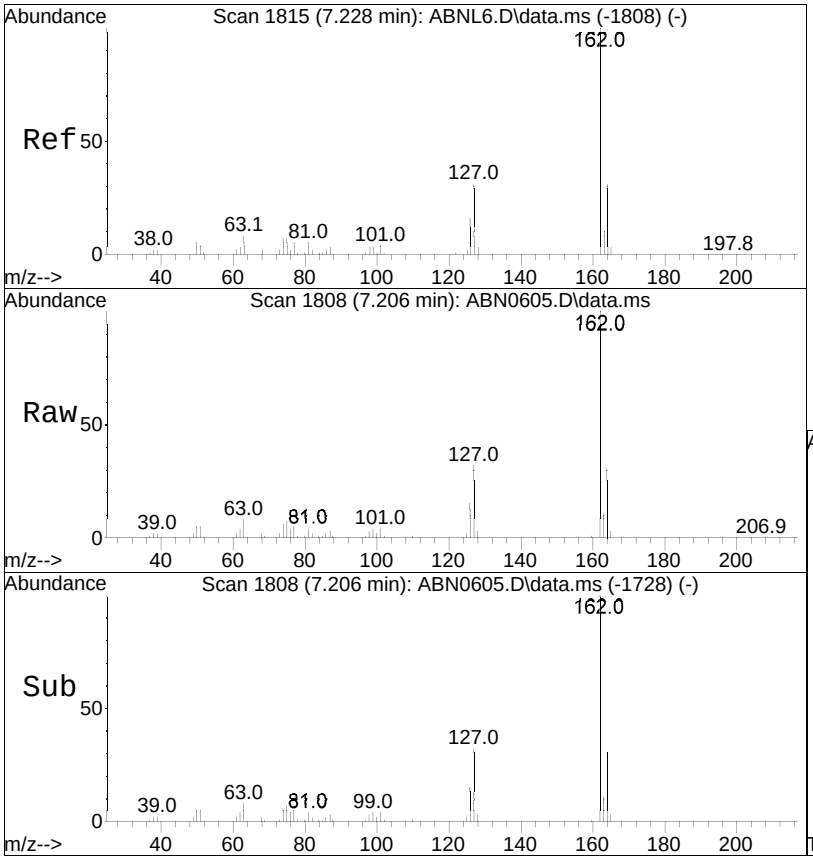


#44
2,4,5-Trichlorophenol
Concen: 4.68 ug/ml
RT: 7.054 min Scan# 1759
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:196 Resp: 31494

Ion	Ratio	Lower	Upper
196	100		
200	32.2	25.4	38.0
198	94.3	78.0	117.0

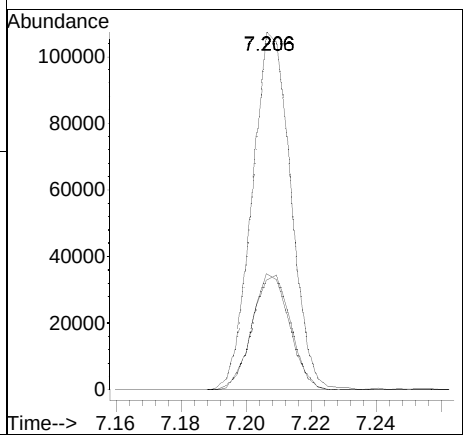


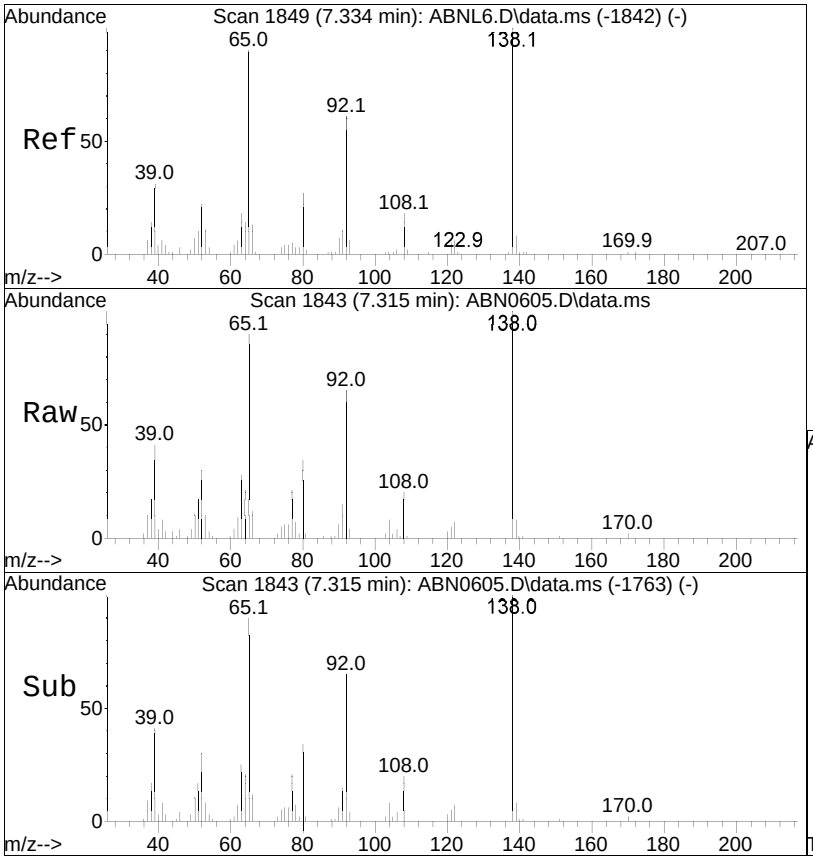


#46
2-Chloronaphthalene
Concen: 5.00 ug/ml
RT: 7.206 min Scan# 1808
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:162 Resp: 87990

Ion	Ratio	Lower	Upper
162	100		
127	31.7	32.2	48.4#
164	32.0	25.7	38.5

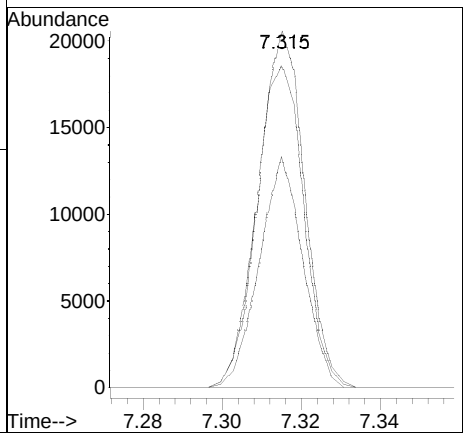


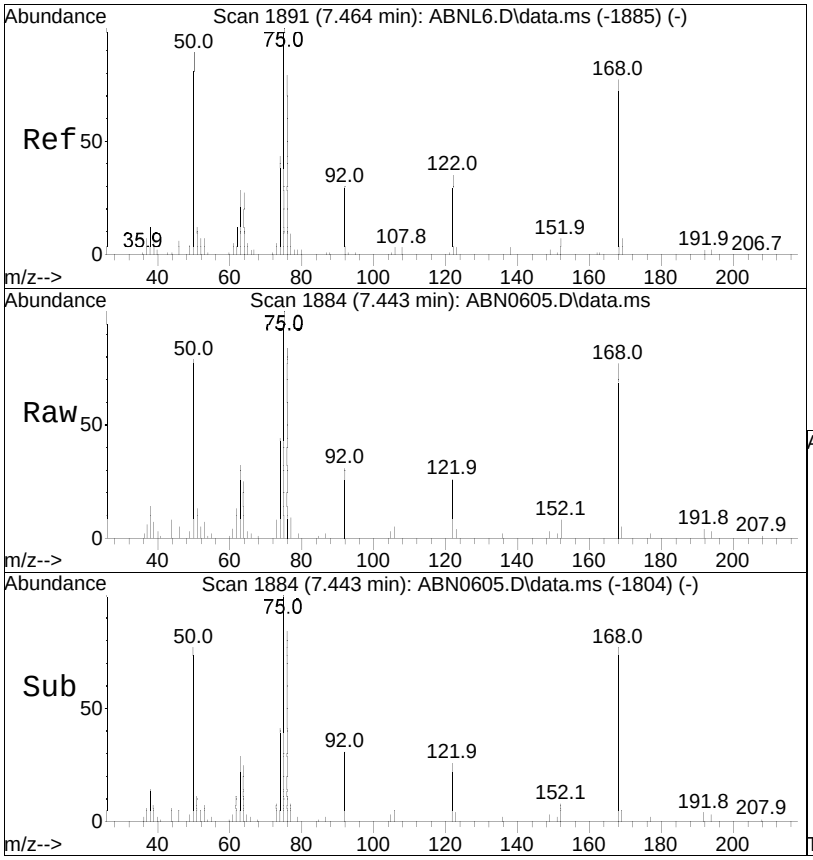


#47
2-Nitroaniline
Concen: 4.00 ug/ml
RT: 7.315 min Scan# 1843
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:138 Resp: 16552

Ion	Ratio	Lower	Upper
138	100		
92	61.4	53.5	80.3
65	93.3	86.3	129.5

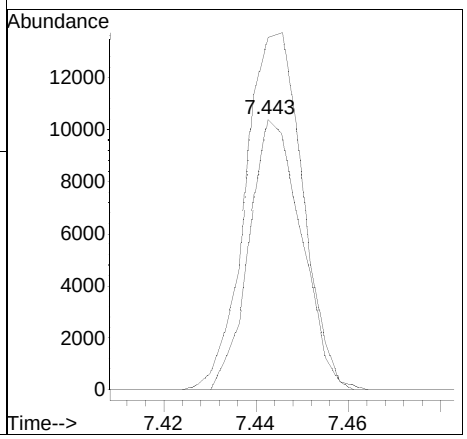


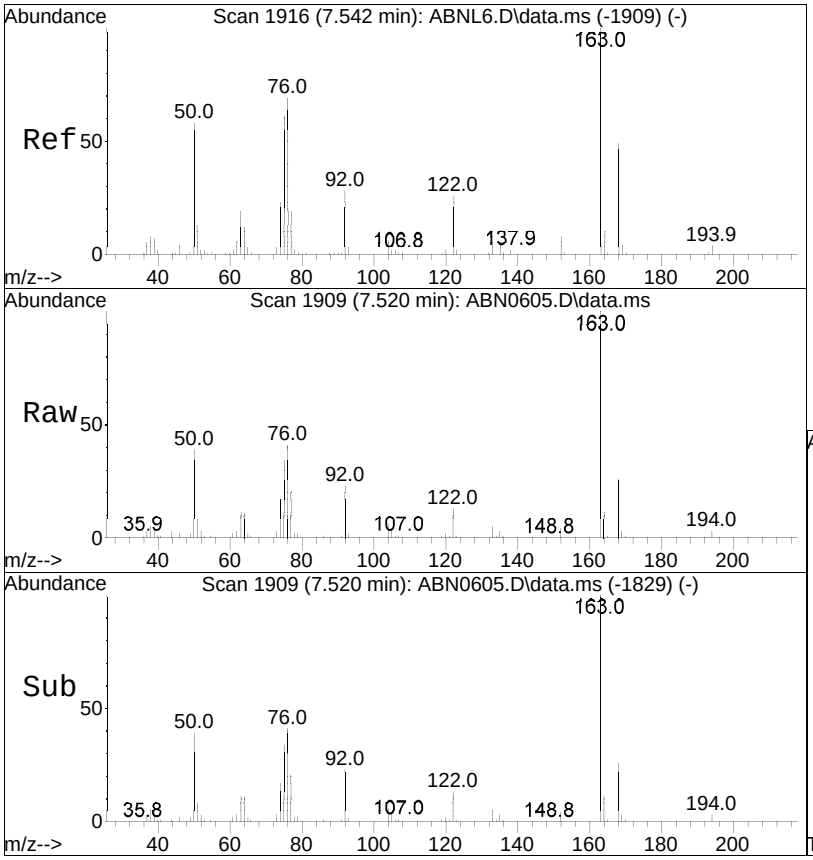


#48
1,4-Dinitrobenzene
Concen: 4.43 ug/ml
RT: 7.443 min Scan# 1884
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:168 Resp: 8179

Ion	Ratio	Lower	Upper
168	100		
75	144.9	121.8	182.8

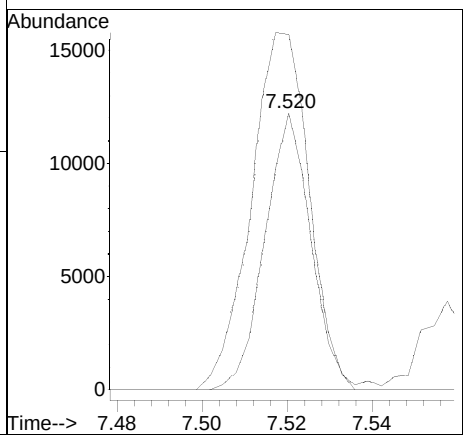


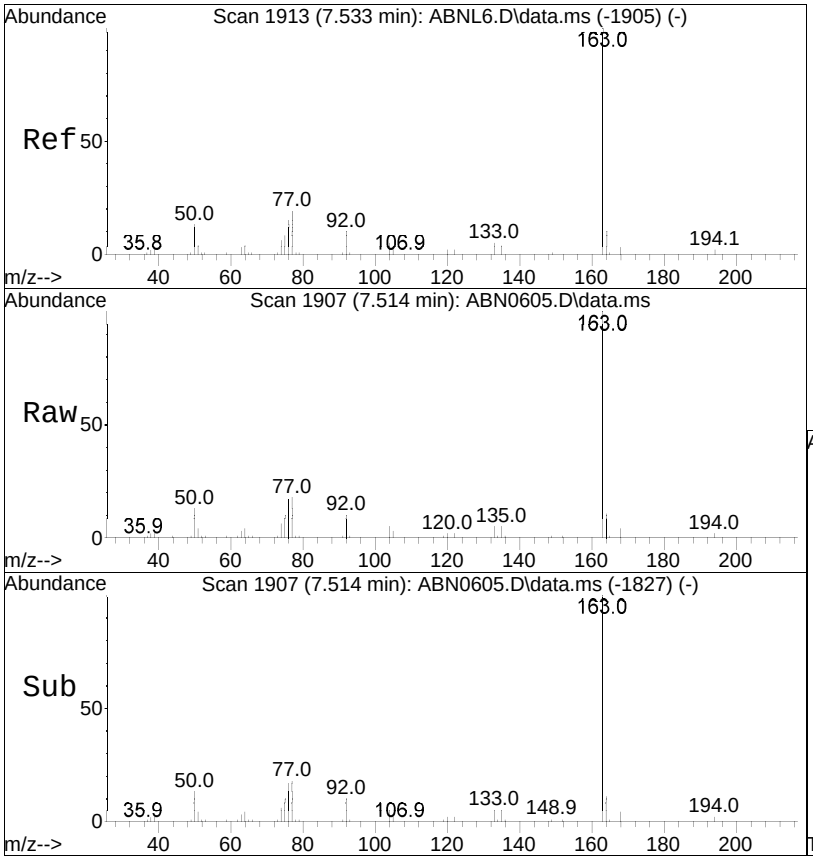


#49
1,3-Dinitrobenzene
Concen: 4.40 ug/ml
RT: 7.520 min Scan# 1909
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:168 Resp: 9099

Ion	Ratio	Lower	Upper
168	100		
75	164.6	22.7	34.1#

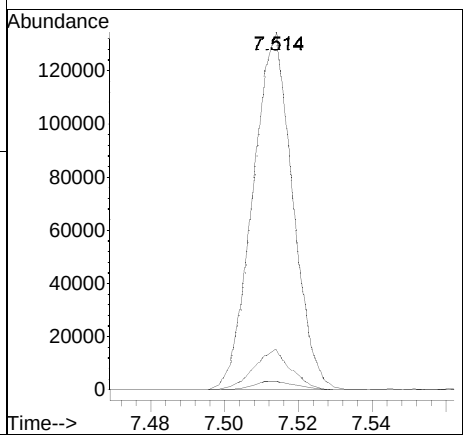


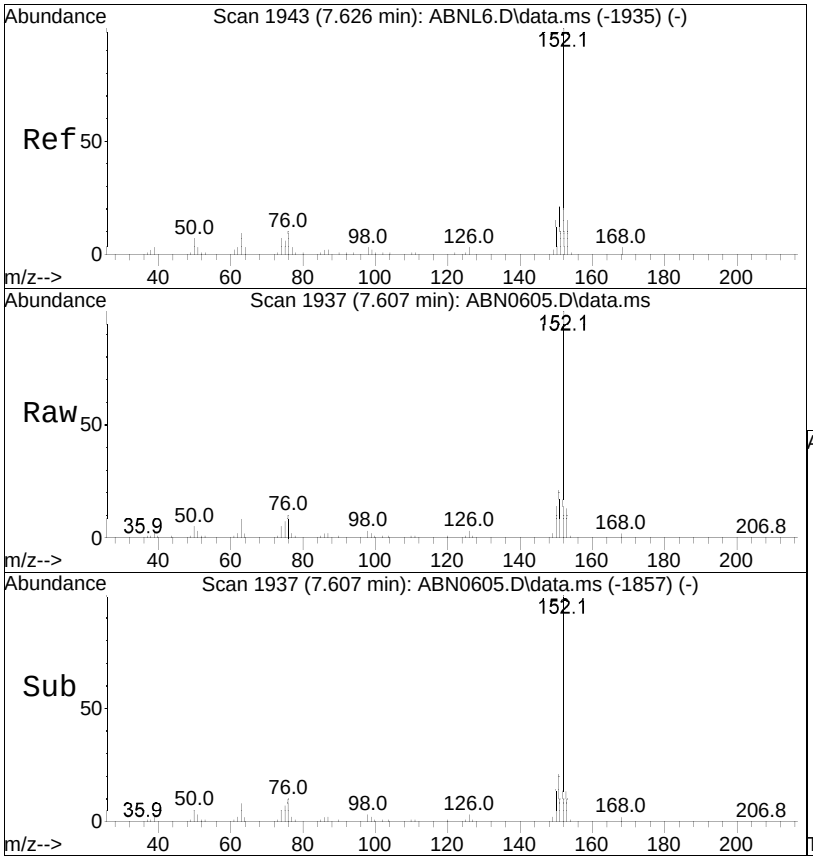


#50
Dimethyl phthalate
Concen: 4.80 ug/ml
RT: 7.514 min Scan# 1907
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:163 Resp: 99793

Ion	Ratio	Lower	Upper
163	100		
194	2.6	3.5	5.3#
164	10.7	7.9	11.9

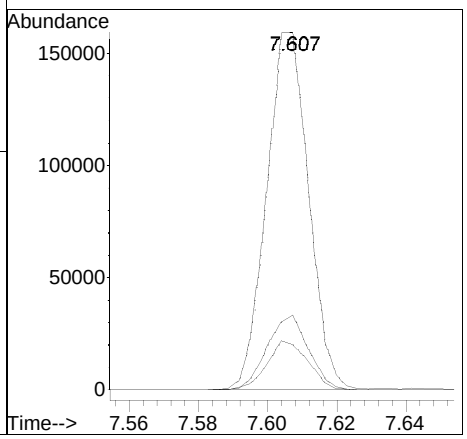


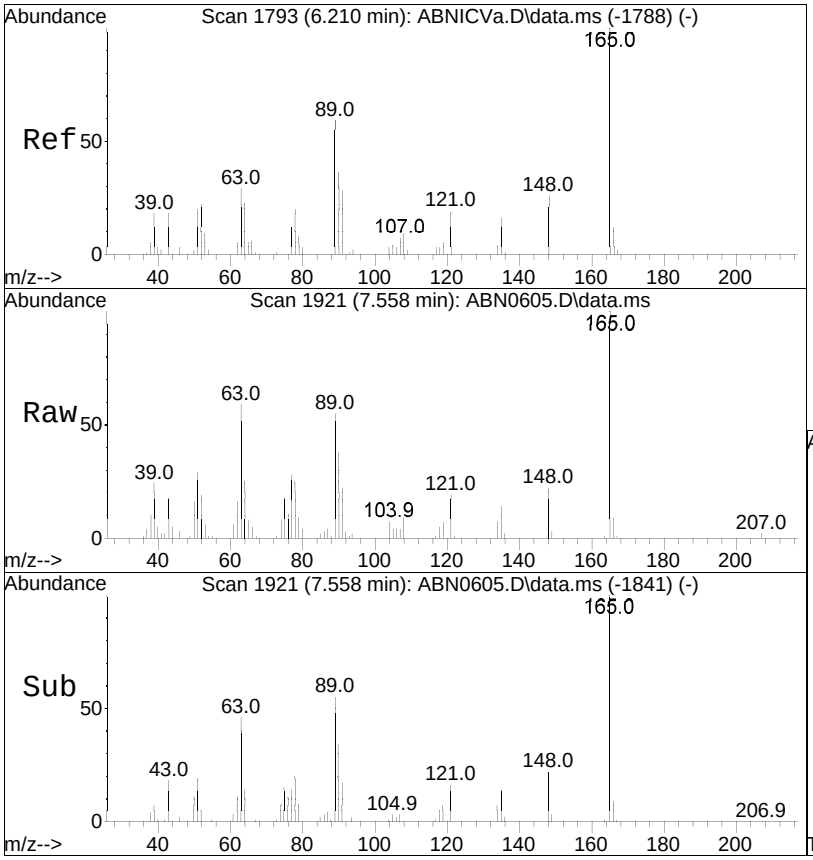


#51
Acenaphthylene
Concen: 5.10 ug/ml
RT: 7.607 min Scan# 1937
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:152 Resp: 133645

Ion	Ratio	Lower	Upper
152	100		
151	20.7	15.8	23.6
153	13.5	10.5	15.7

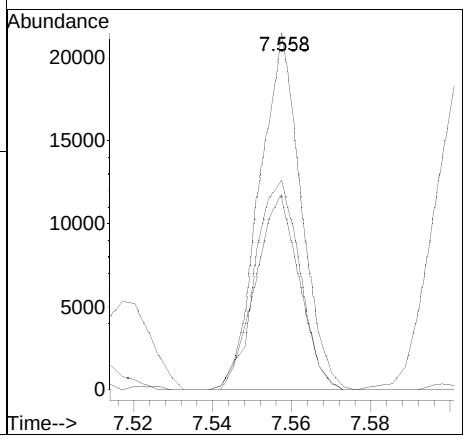


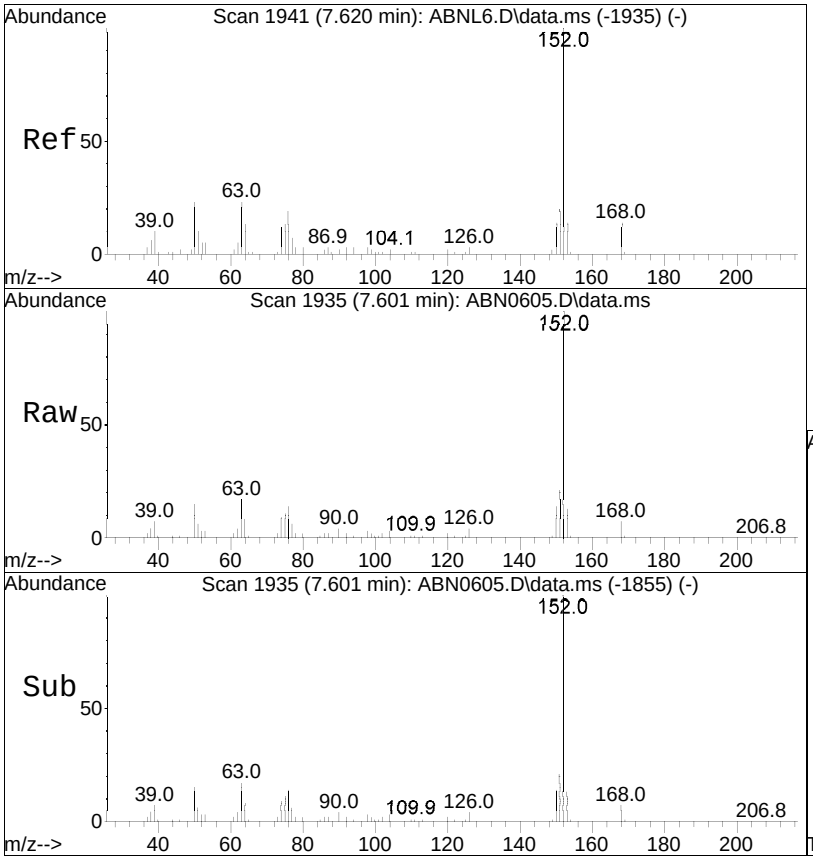


#52
2,6-Dinitrotoluene
Concen: 4.32 ug/ml
RT: 7.558 min Scan# 1921
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:165 Resp: 15772

Ion	Ratio	Lower	Upper
165	100		
89	57.6	54.2	81.2
63	63.0	64.2	96.2#

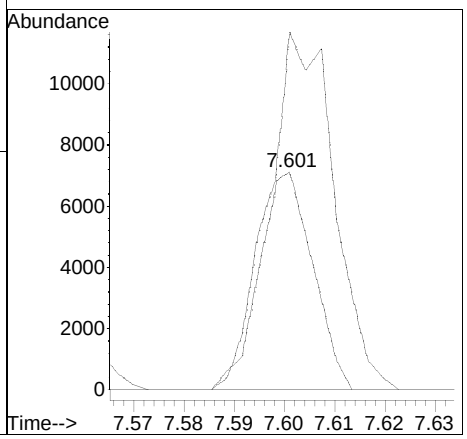


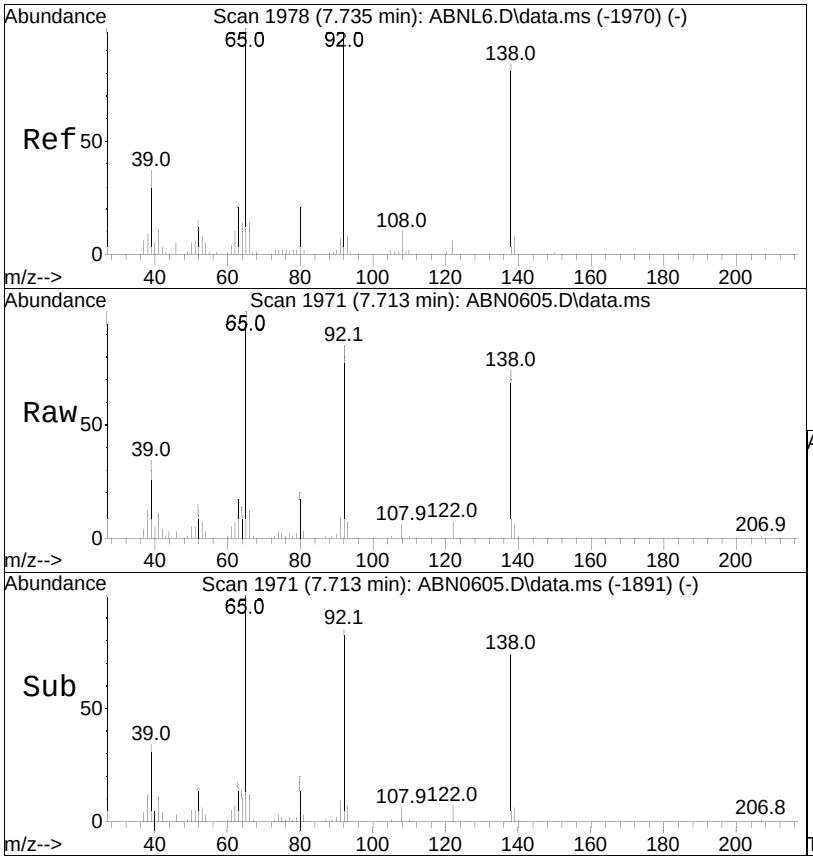


#53
1,2-Dinitrobenzene
Concen: 4.40 ug/ml
RT: 7.601 min Scan# 1935
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:168 Resp: 5638

Ion	Ratio	Lower	Upper
168	100		
75	181.6	30.9	46.3#

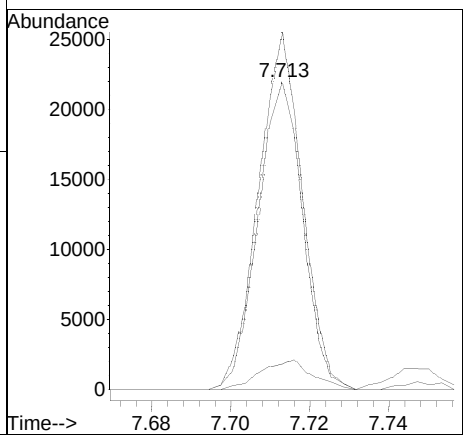


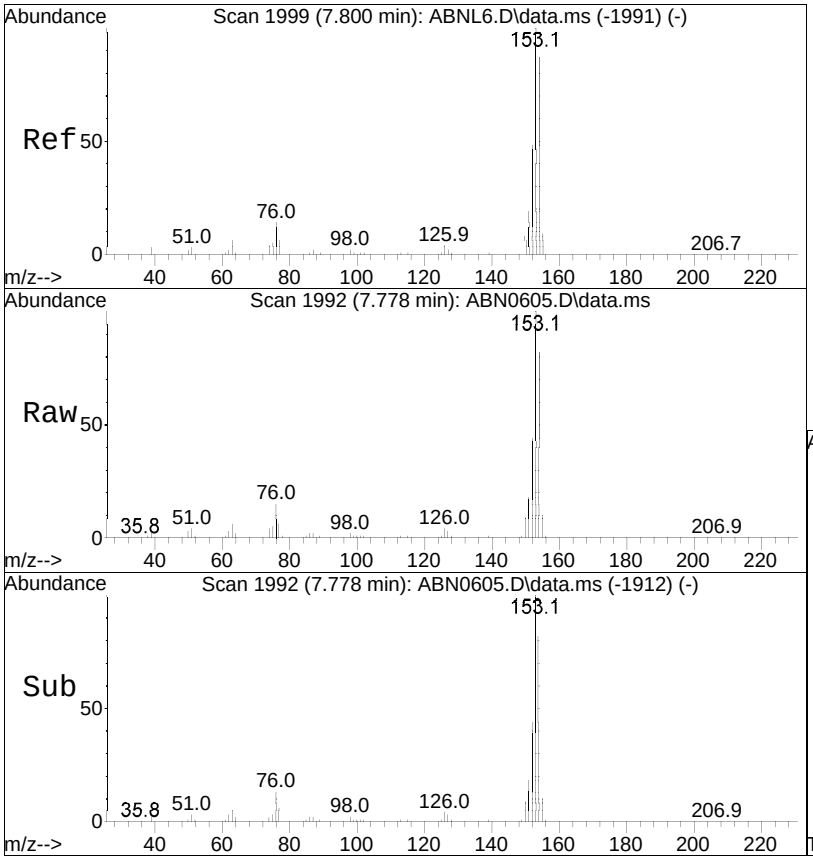


#63
3-Nitroaniline
Concen: 4.78 ug/ml
RT: 7.713 min Scan# 1971
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:138 Resp: 17100

Ion	Ratio	Lower	Upper
138	100		
92	113.9	93.4	140.2
108	11.2	9.5	14.3

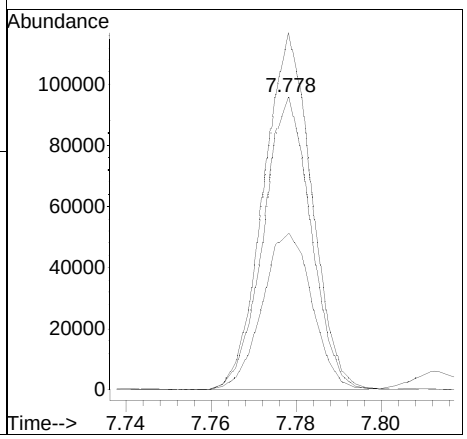


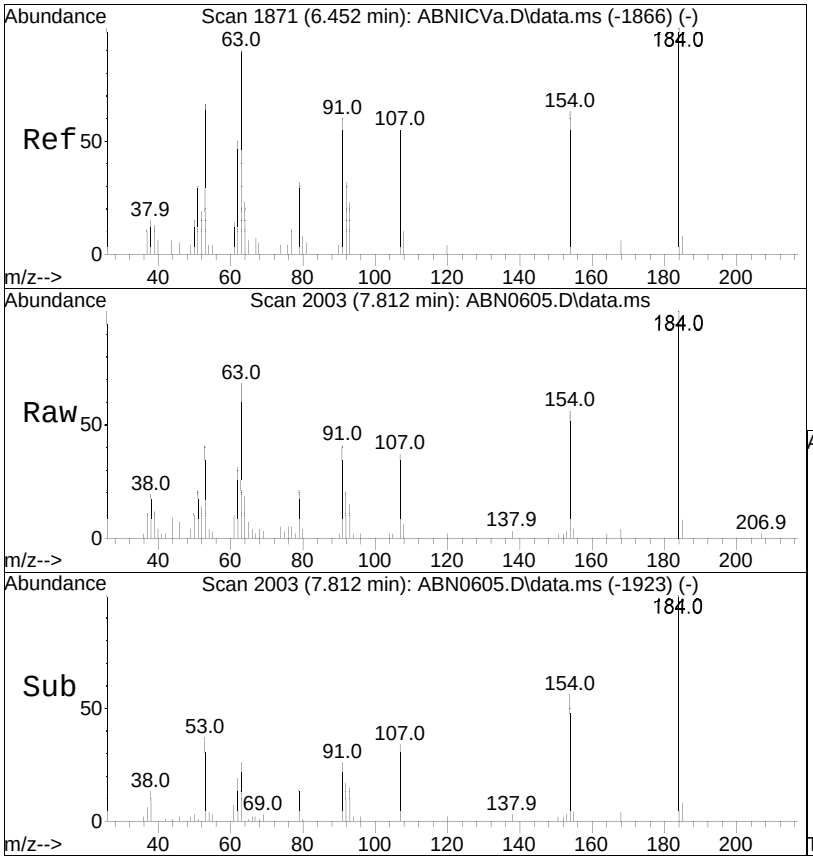


#64
Acenaphthene
Concen: 4.95 ug/ml
RT: 7.778 min Scan# 1992
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:154 Resp: 74399

Ion	Ratio	Lower	Upper
154	100		
153	123.6	85.3	127.9
152	56.8	41.4	62.0

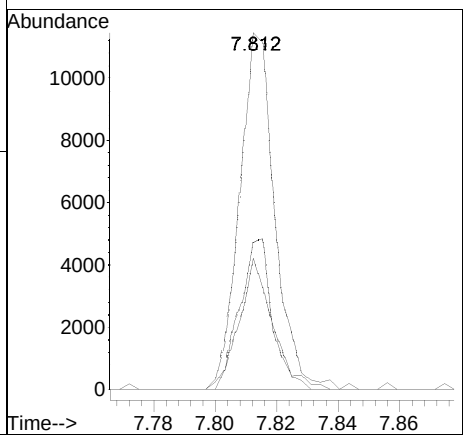


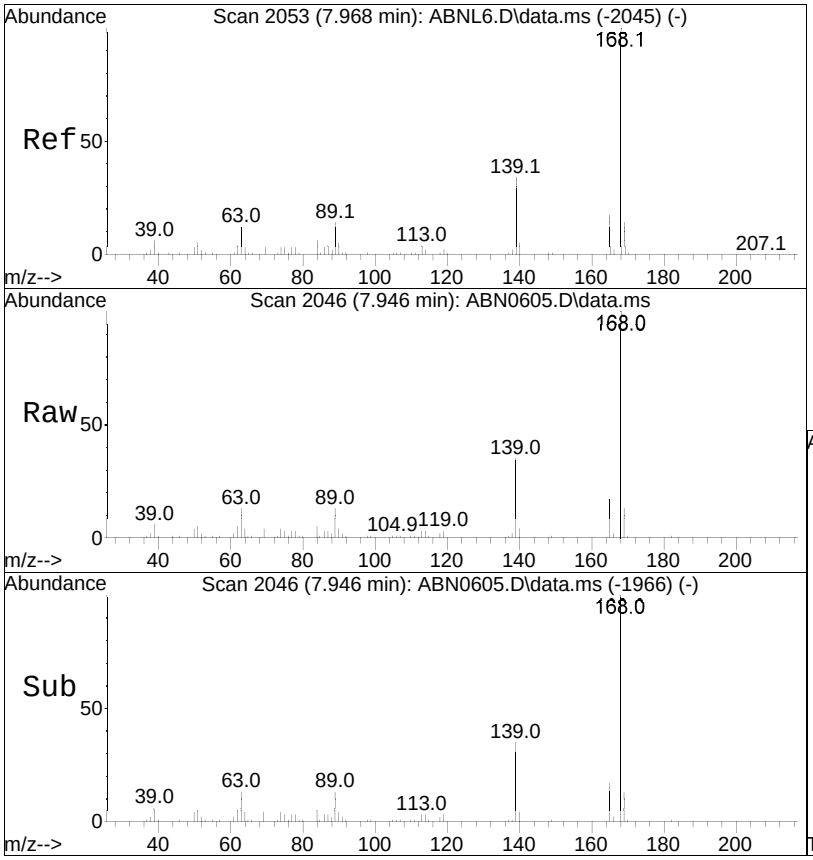


#65
2,4-Dinitrophenol
Concen: 4.62 ug/ml
RT: 7.812 min Scan# 2003
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:184 Resp: 9109

Ion	Ratio	Lower	Upper
184	100		
107	34.1	37.7	56.5#
91	40.0	46.3	69.5#

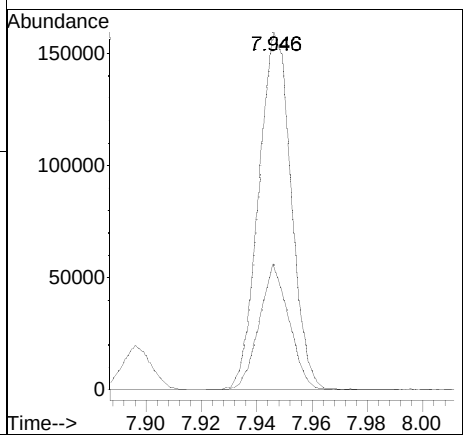


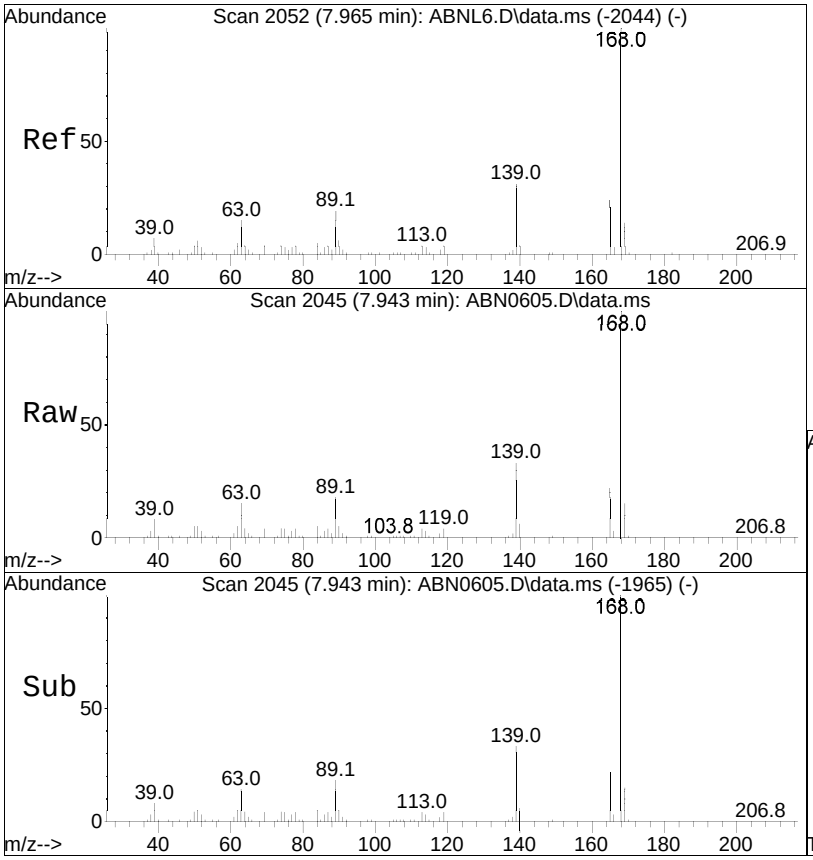


#66
Dibenzofuran
Concen: 5.10 ug/ml
RT: 7.946 min Scan# 2046
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:168 Resp: 128572

Ion	Ratio	Lower	Upper
168	100		
139	32.6	31.4	47.2

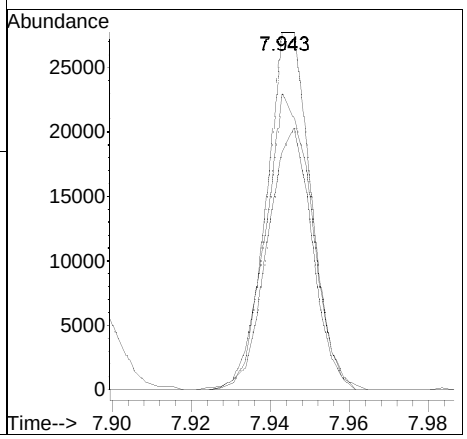


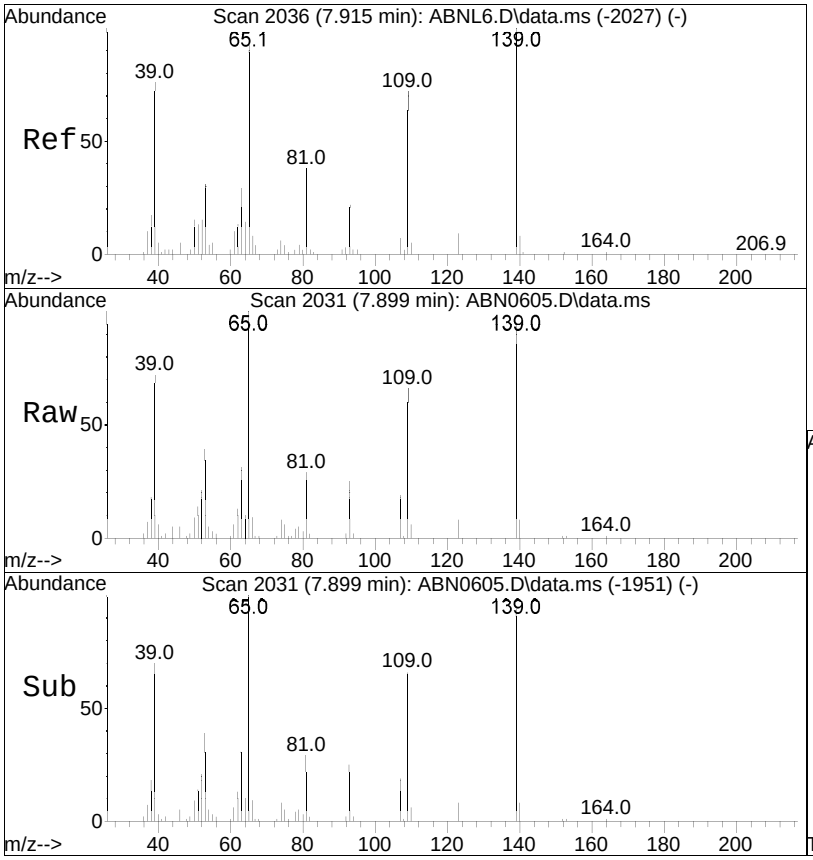


#67
2,4-Dinitrotoluene
Concen: 4.77 ug/ml
RT: 7.943 min Scan# 2045
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:165 Resp: 21582

Ion	Ratio	Lower	Upper
165	100		
89	85.2	72.0	108.0
63	74.2	52.7	79.1

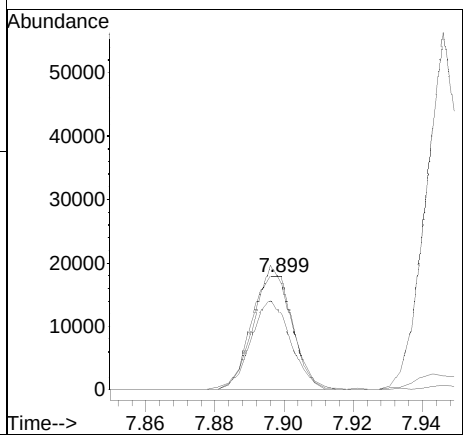


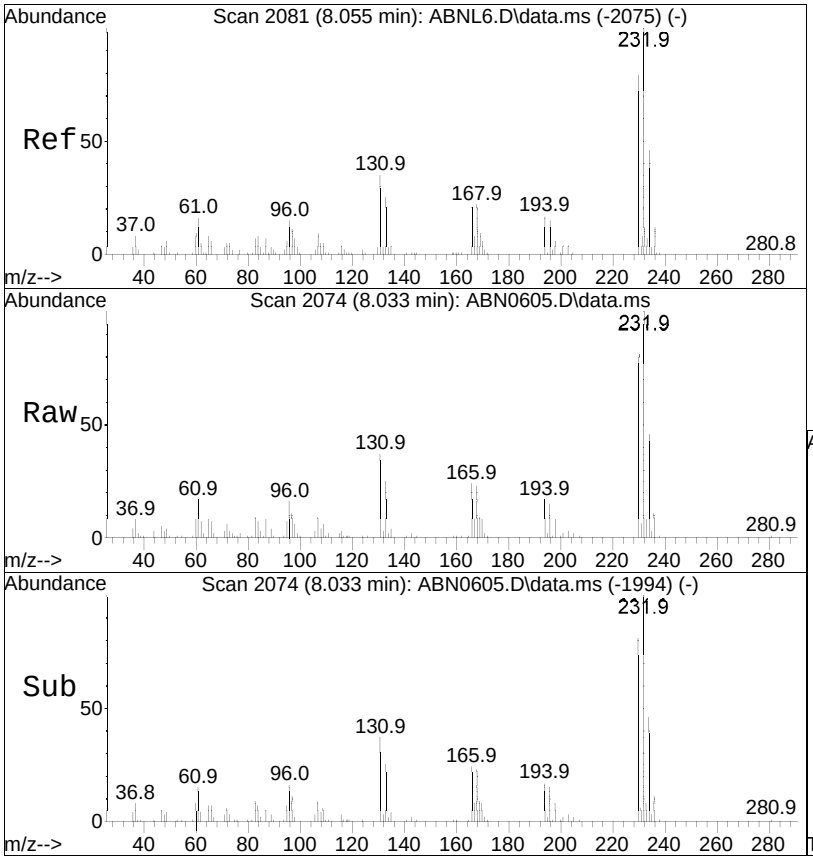


#68
4-Nitrophenol
Concen: 4.89 ug/ml
RT: 7.899 min Scan# 2031
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion: 65 Resp: 15159

Ion	Ratio	Lower	Upper
65	100		
109	73.4	47.4	71.2#
139	97.3	76.6	115.0

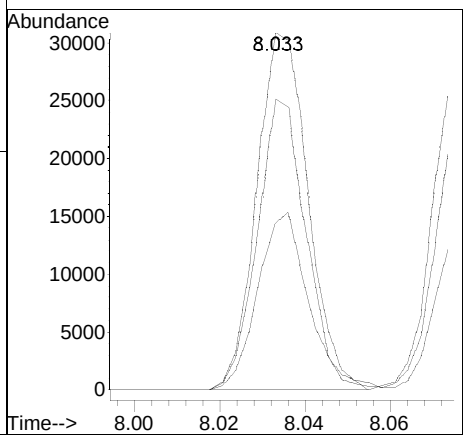


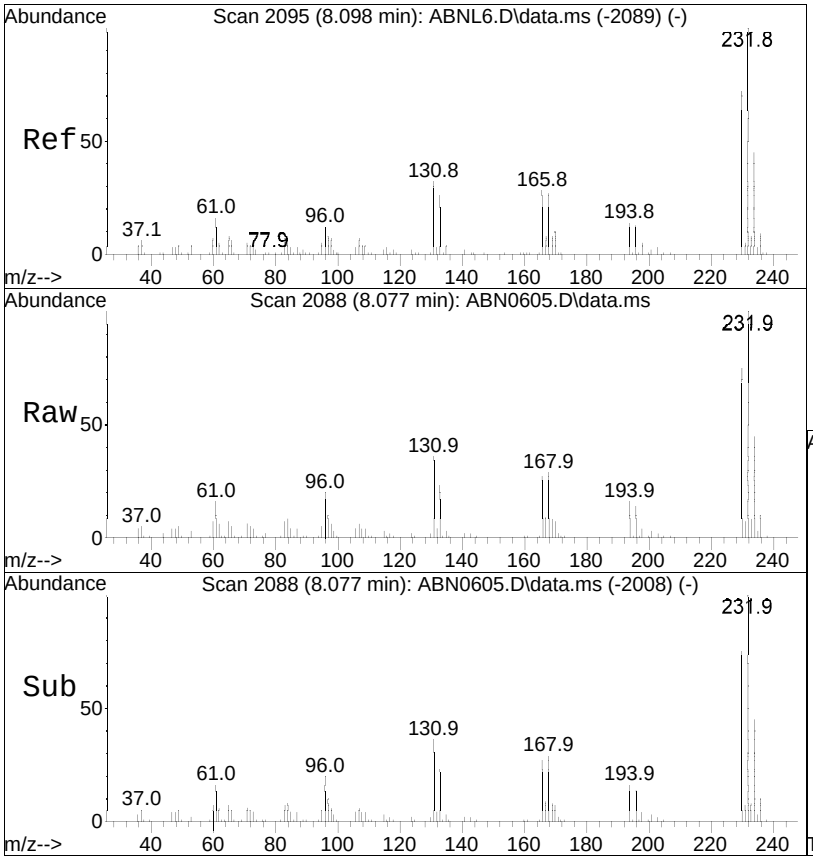


#69
2,3,5,6-Tetrachlorophenol
Concen: 4.63 ug/ml
RT: 8.033 min Scan# 2074
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:232 Resp: 25902

Ion	Ratio	Lower	Upper
232	100		
230	77.9	64.2	96.4
234	48.8	38.1	57.1

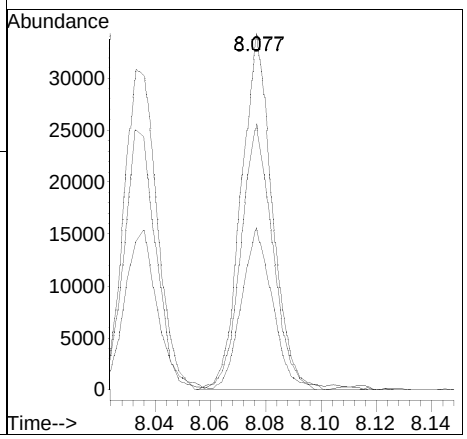


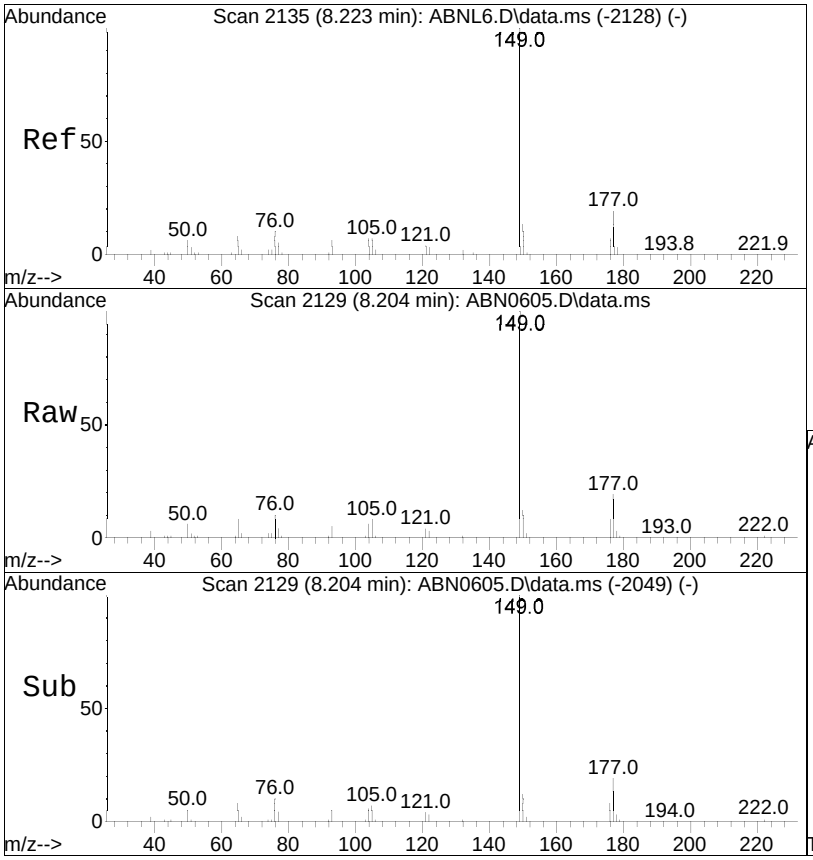


#70
2,3,4,6-Tetrachlorophenol
Concen: 5.05 ug/ml
RT: 8.077 min Scan# 2088
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:232 Resp: 27186

Ion	Ratio	Lower	Upper
232	100		
230	75.2	61.8	92.8
234	44.7	36.2	54.2

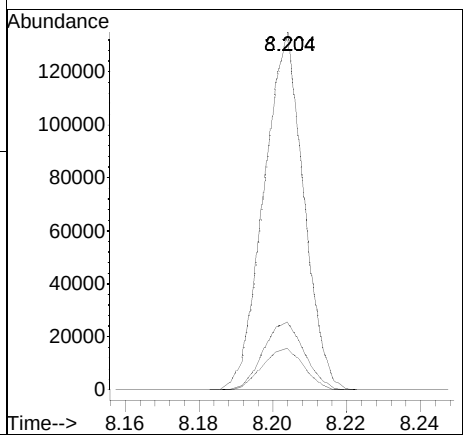


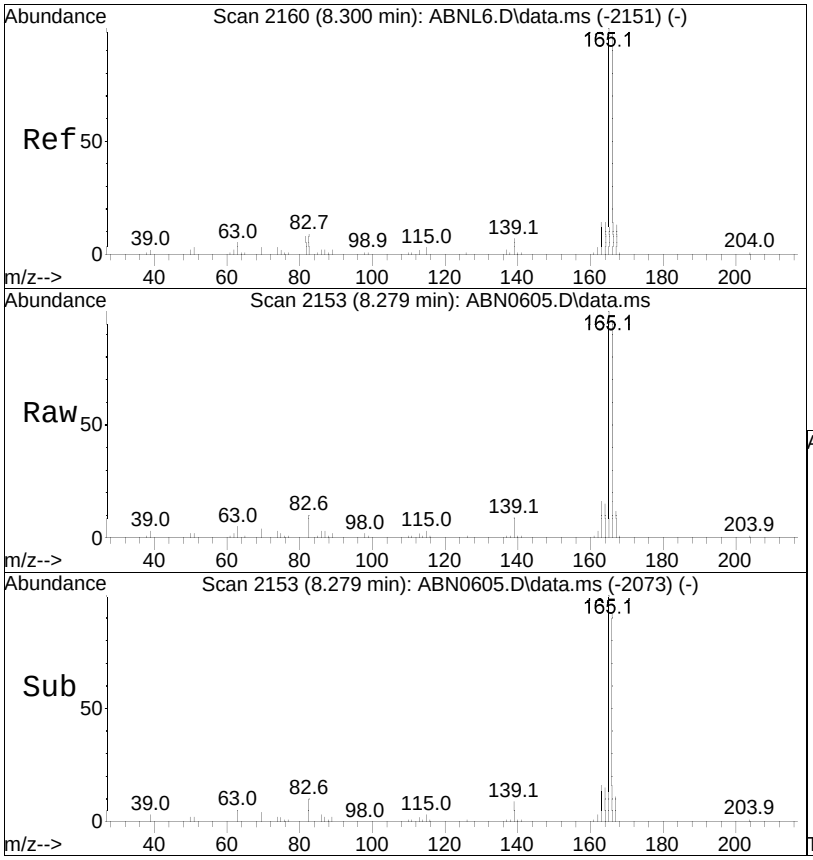


#71
Diethyl phthalate
Concen: 4.85 ug/ml
RT: 8.204 min Scan# 2129
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:149 Resp: 99940

Ion	Ratio	Lower	Upper
149	100		
177	19.8	16.1	24.1
150	12.2	9.4	14.2

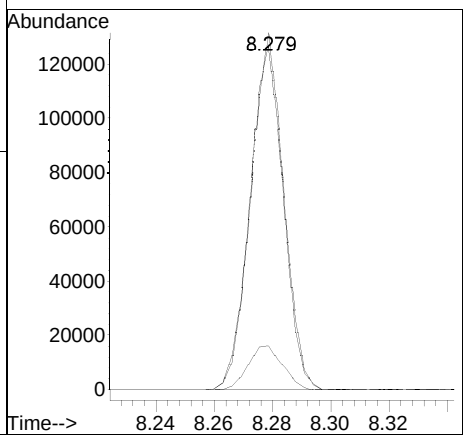


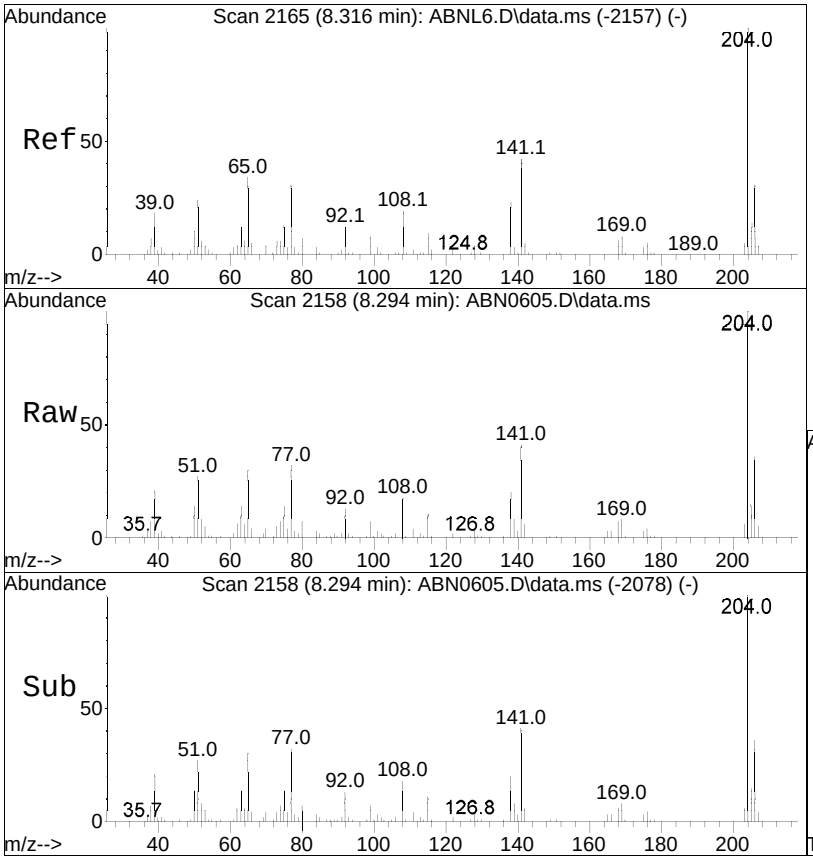


#72
Fluorene
Concen: 5.00 ug/ml
RT: 8.279 min Scan# 2153
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:166 Resp: 100223

Ion	Ratio	Lower	Upper
166	100		
165	103.8	76.2	114.2
167	13.6	10.6	15.8

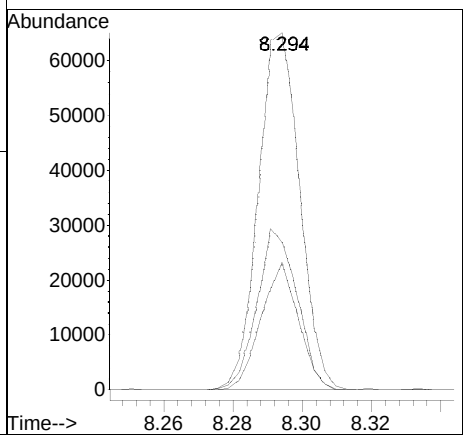


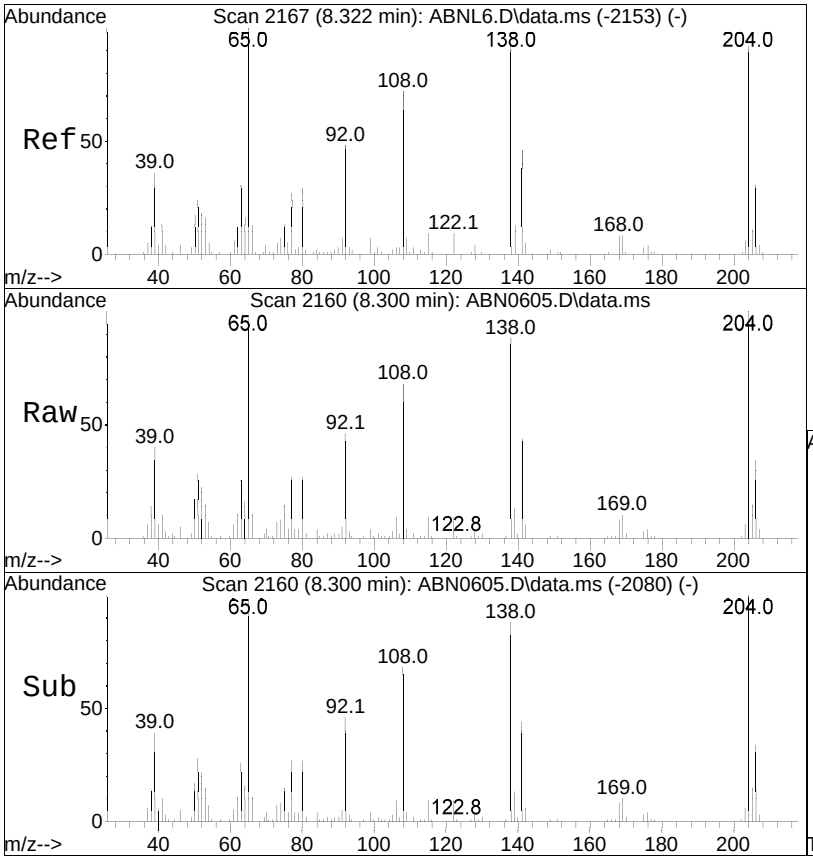


#73
4-Chlorophenyl phenyl ether
Concen: 5.04 ug/ml
RT: 8.294 min Scan# 2158
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:204 Resp: 53566

Ion	Ratio	Lower	Upper
204	100		
206	32.6	25.8	38.6
141	43.9	53.6	80.4#

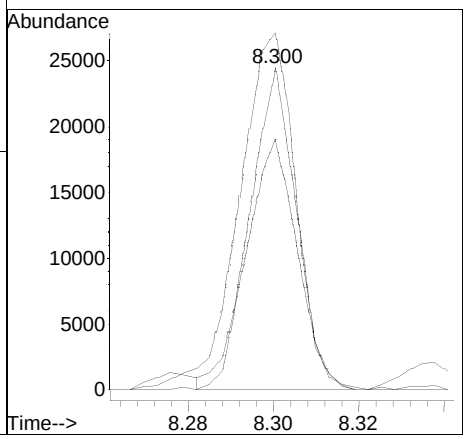


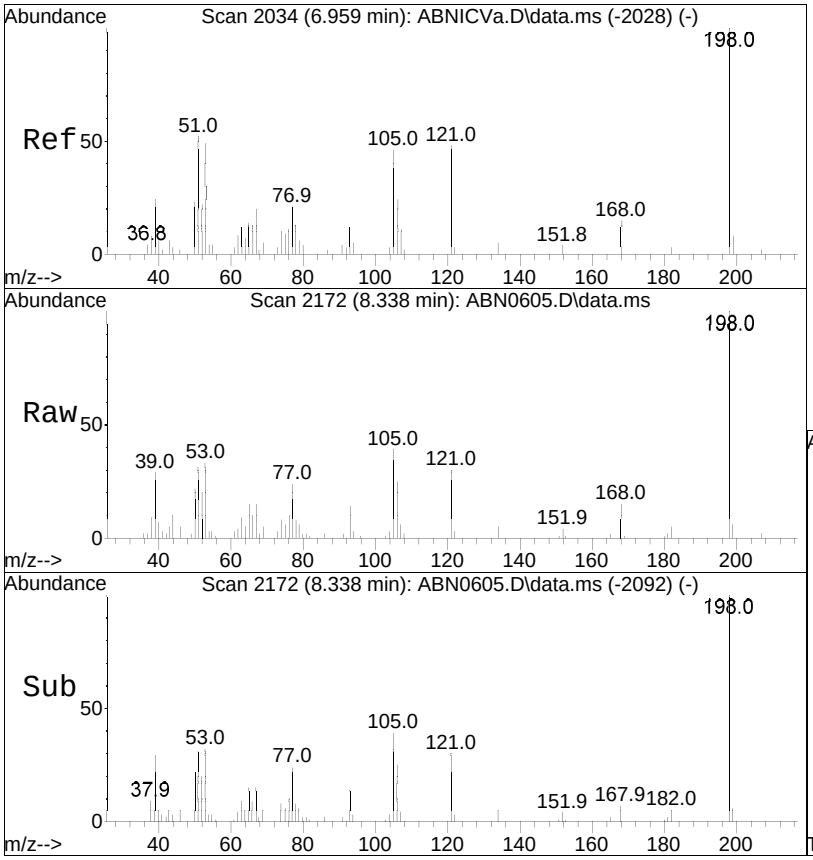


#74
4-Nitroaniline
Concen: 4.93 ug/ml
RT: 8.300 min Scan# 2160
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:138 Resp: 18799

Ion	Ratio	Lower	Upper
138	100		
108	82.7	52.1	78.1#
65	132.9	115.0	172.6

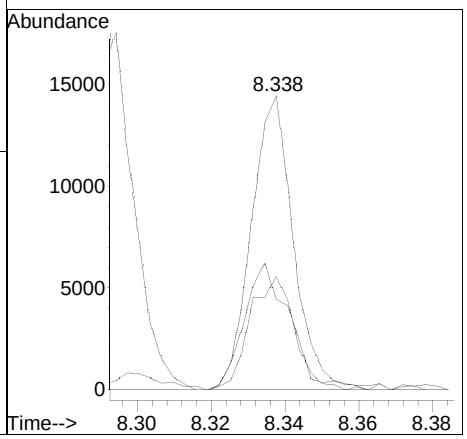


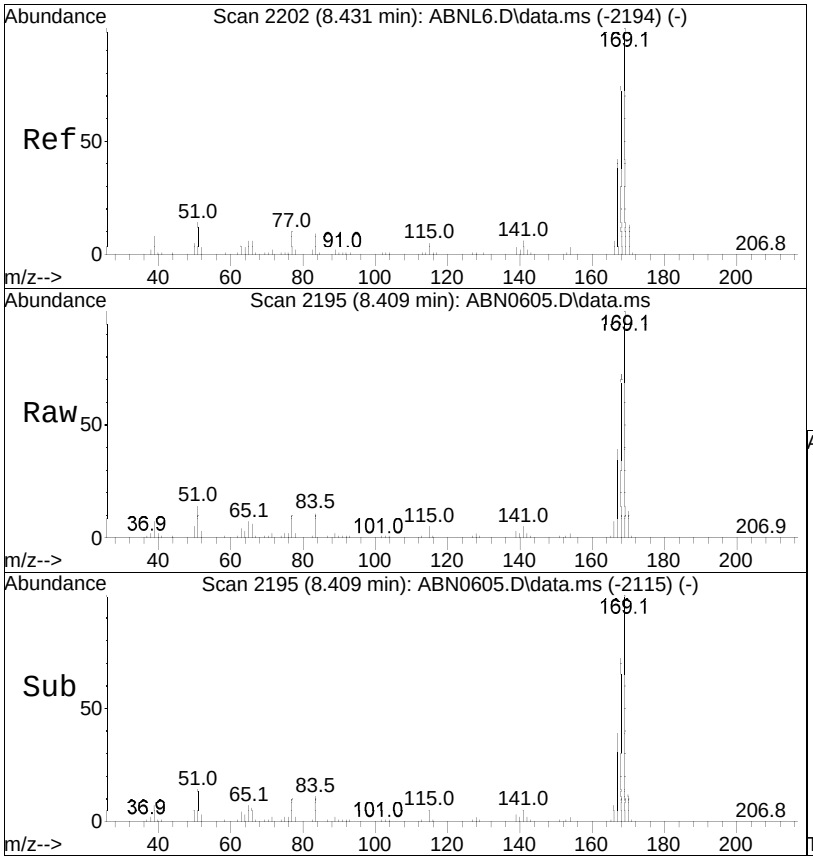


#75
4,6-Dinitro-o-cresol
Concen: 4.29 ug/ml
RT: 8.338 min Scan# 2172
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:198 Resp: 11395

Ion	Ratio	Lower	Upper
198	100		
51	47.9	76.0	114.0#
105	41.0	45.6	68.4#

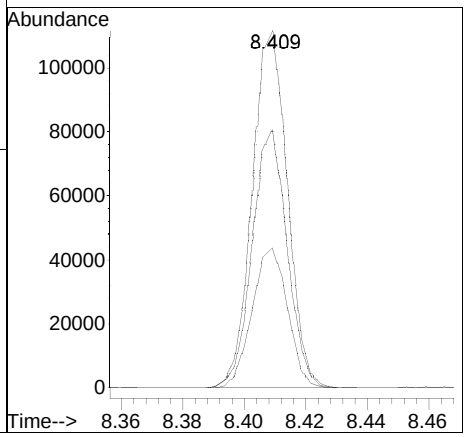


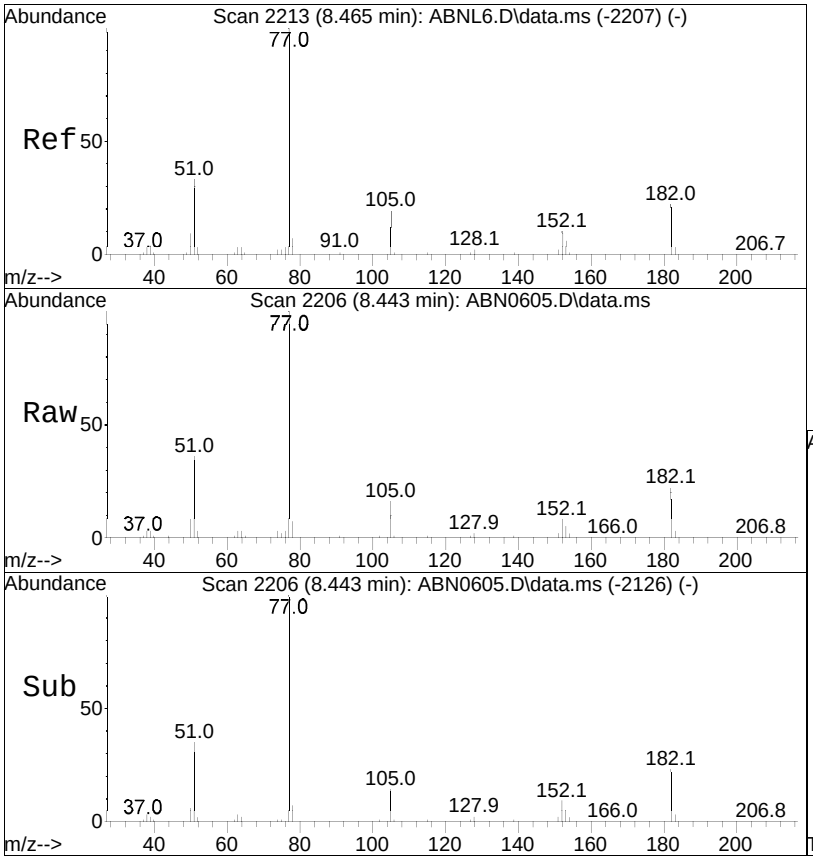


#76
NDPA/DPA
Concen: 5.10 ug/ml
RT: 8.409 min Scan# 2195
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:169 Resp: 88238

Ion	Ratio	Lower	Upper
169	100		
168	71.9	54.0	81.0
167	39.6	28.6	42.8

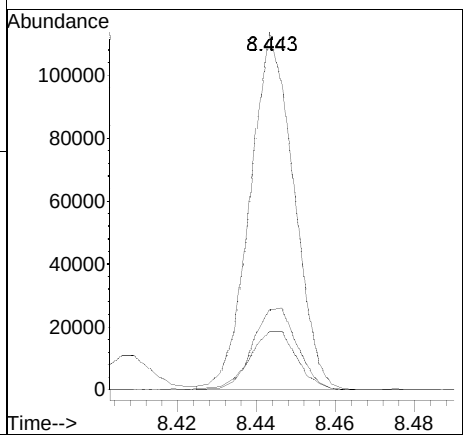


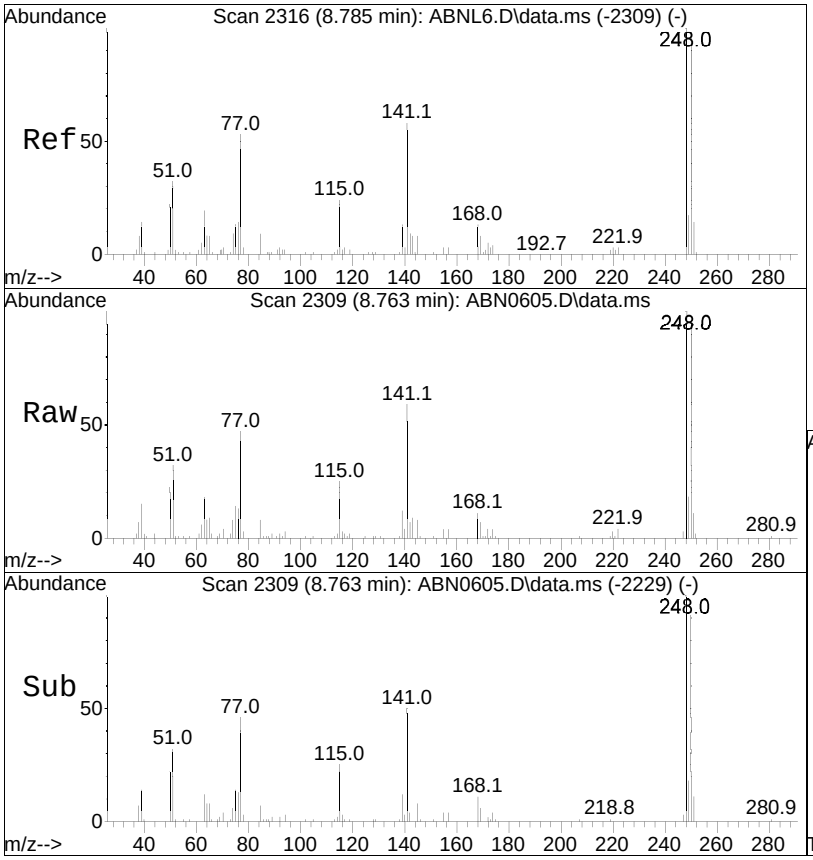


#77
Azobenzene
Concen: 4.99 ug/ml
RT: 8.443 min Scan# 2206
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion: 77 Resp: 86329

Ion	Ratio	Lower	Upper
77	100		
182	23.7	17.4	26.2
105	17.8	15.4	23.2

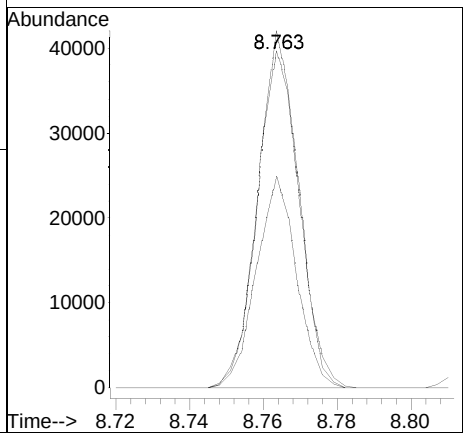


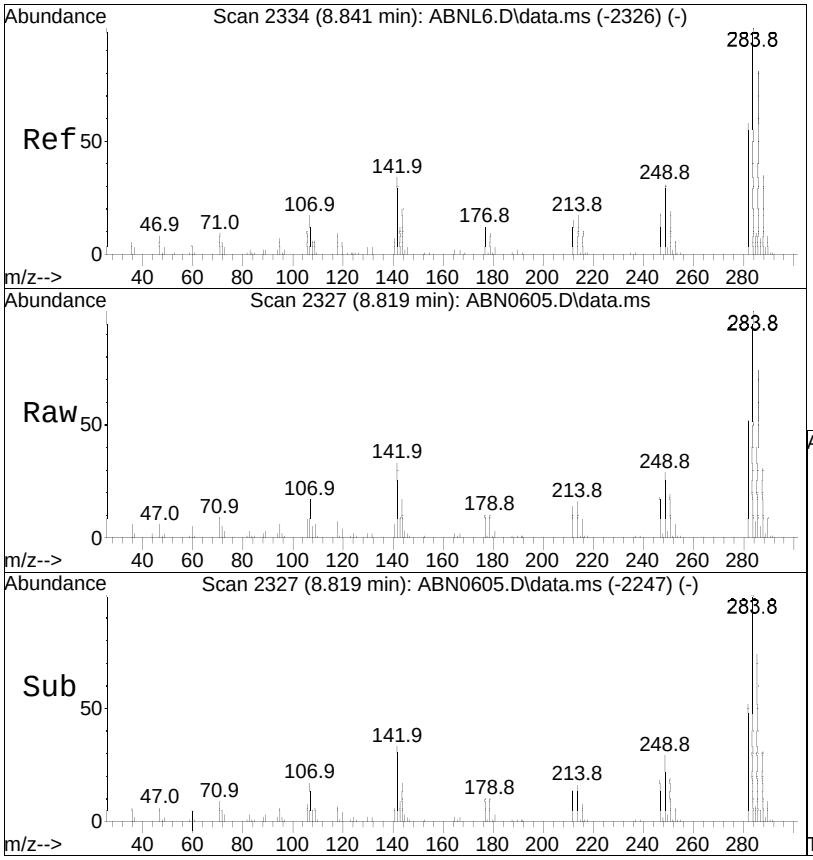


#79
4-Bromophenyl phenyl ether
Concen: 4.88 ug/ml
RT: 8.763 min Scan# 2309
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:248 Resp: 32221

Ion	Ratio	Lower	Upper
248	100		
141	58.6	76.6	114.8#
250	96.9	77.3	115.9

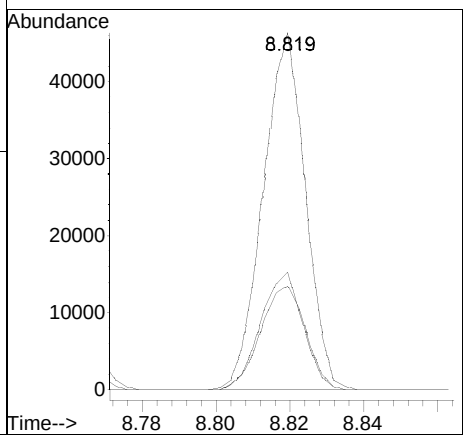


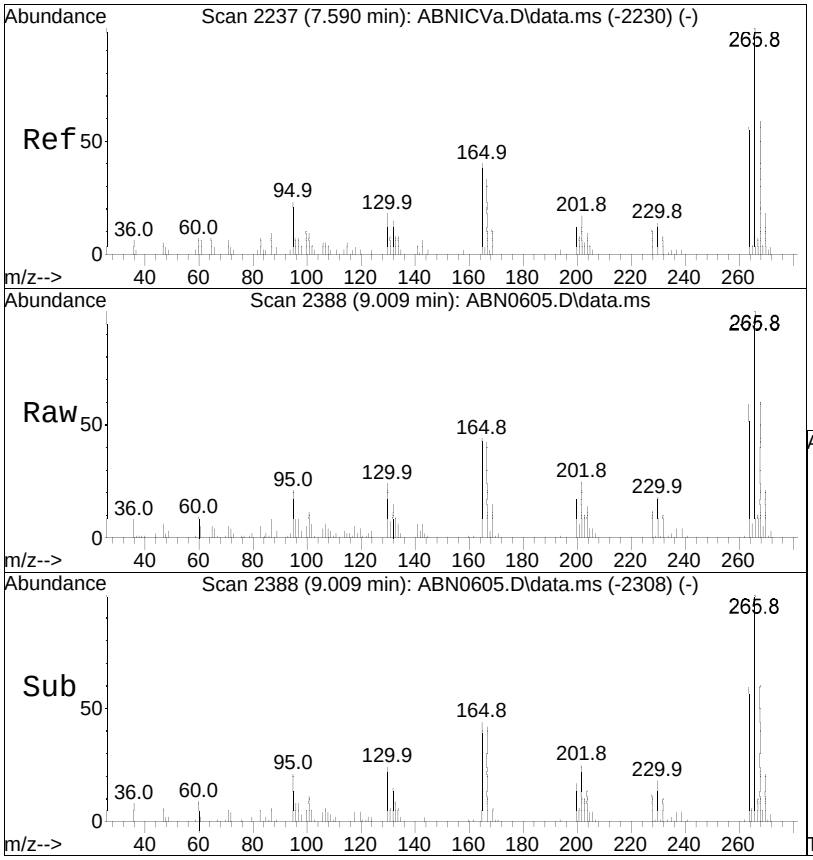


#80
Hexachlorobenzene
Concen: 4.83 ug/ml
RT: 8.819 min Scan# 2327
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:284 Resp: 36759

Ion	Ratio	Lower	Upper
284	100		
142	33.1	41.9	62.9#
249	31.1	24.1	36.1

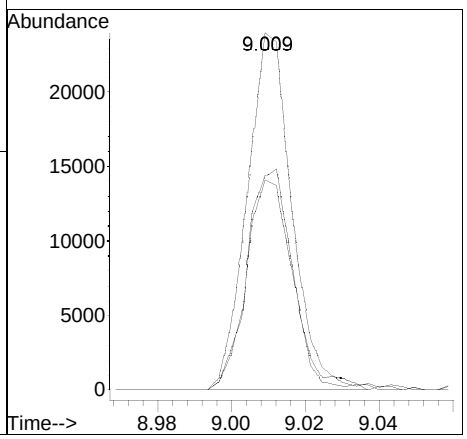


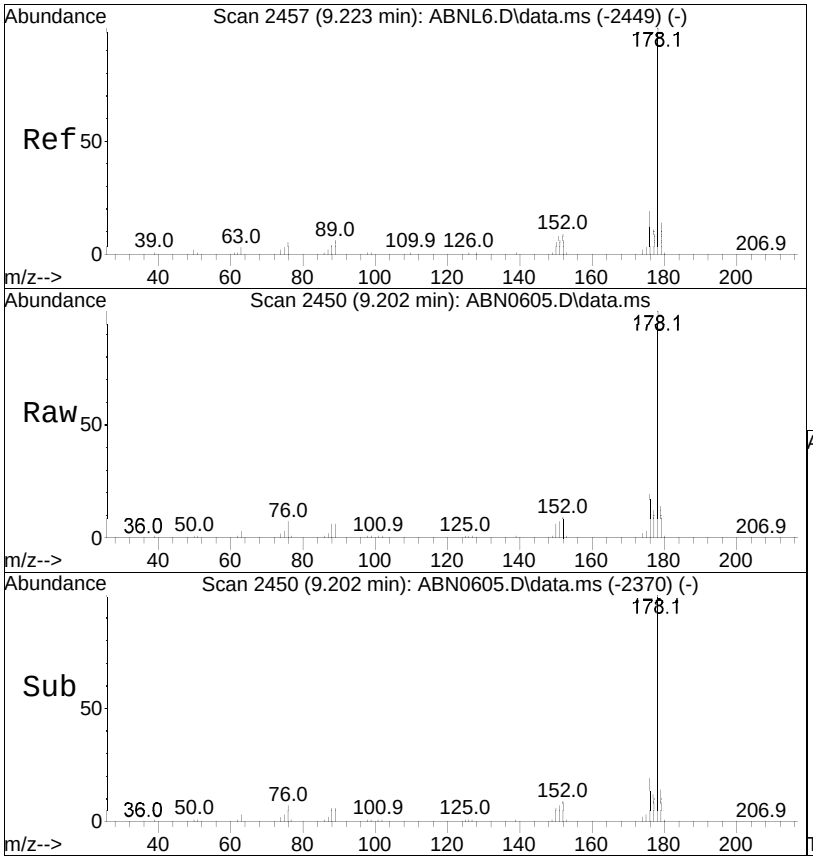


#81
Pentachlorophenol
Concen: 4.26 ug/ml
RT: 9.009 min Scan# 2388
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:266 Resp: 20177

Ion	Ratio	Lower	Upper
266	100		
264	60.5	49.7	74.5
268	65.0	50.5	75.7

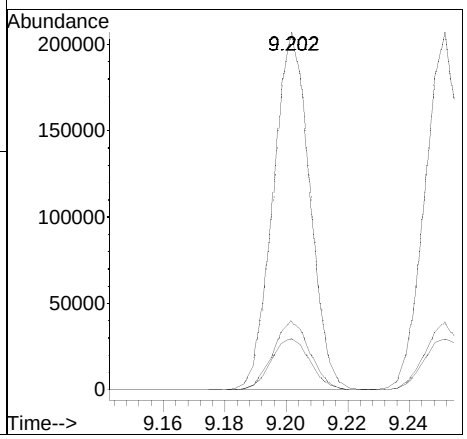


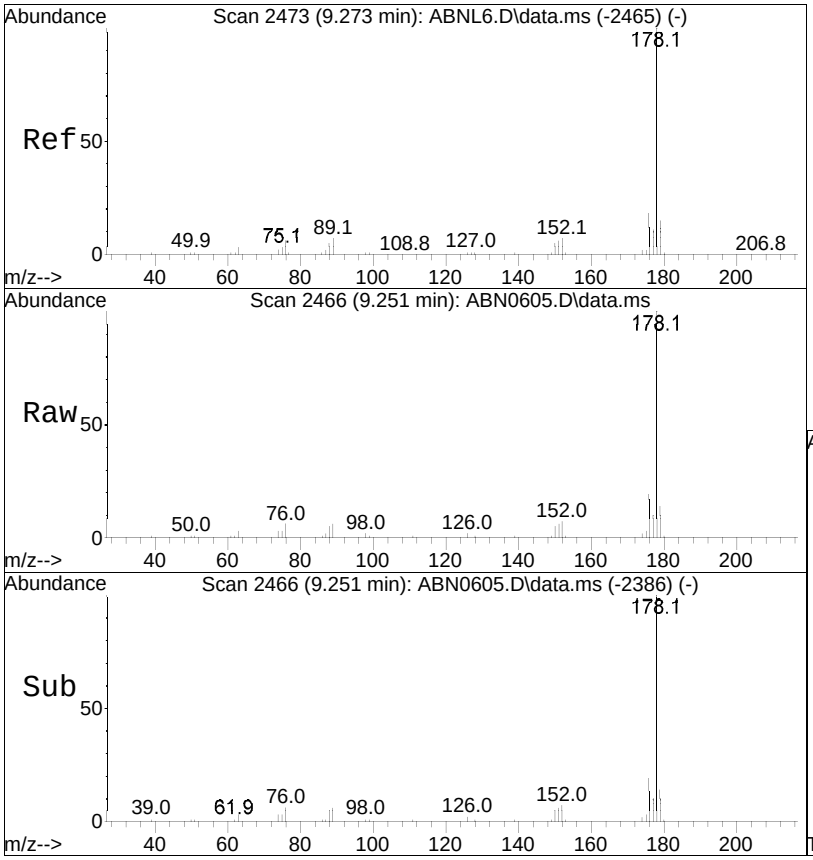


#88
Phenanthrene
Concen: 4.96 ug/ml
RT: 9.202 min Scan# 2450
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:178 Resp: 170999

Ion	Ratio	Lower	Upper
178	100		
179	15.1	12.2	18.2
176	19.4	15.4	23.2

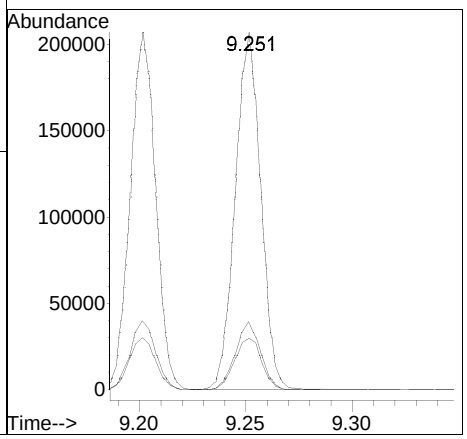


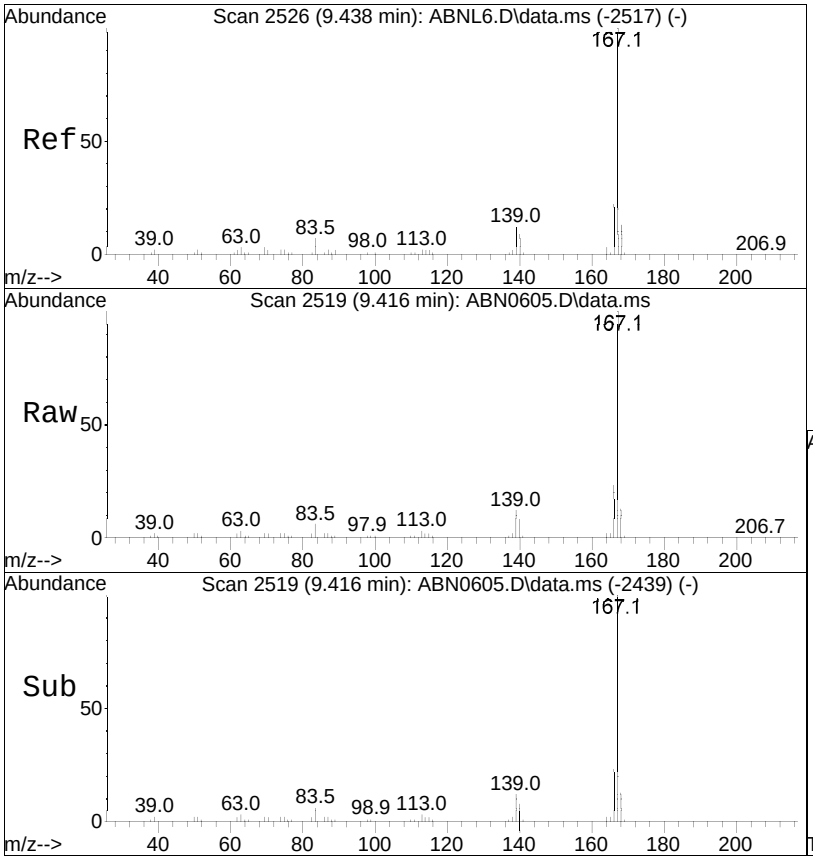


#89
Anthracene
Concen: 5.13 ug/ml
RT: 9.251 min Scan# 2466
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:178 Resp: 172832

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.0	18.0
176	18.7	14.6	22.0

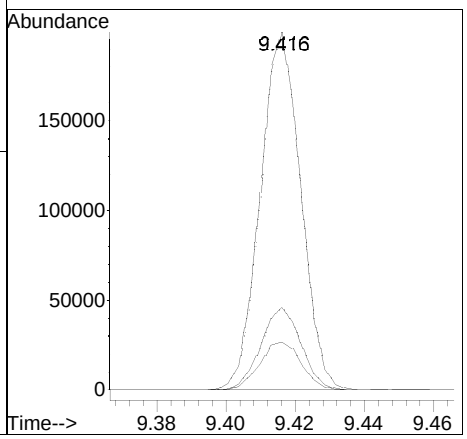


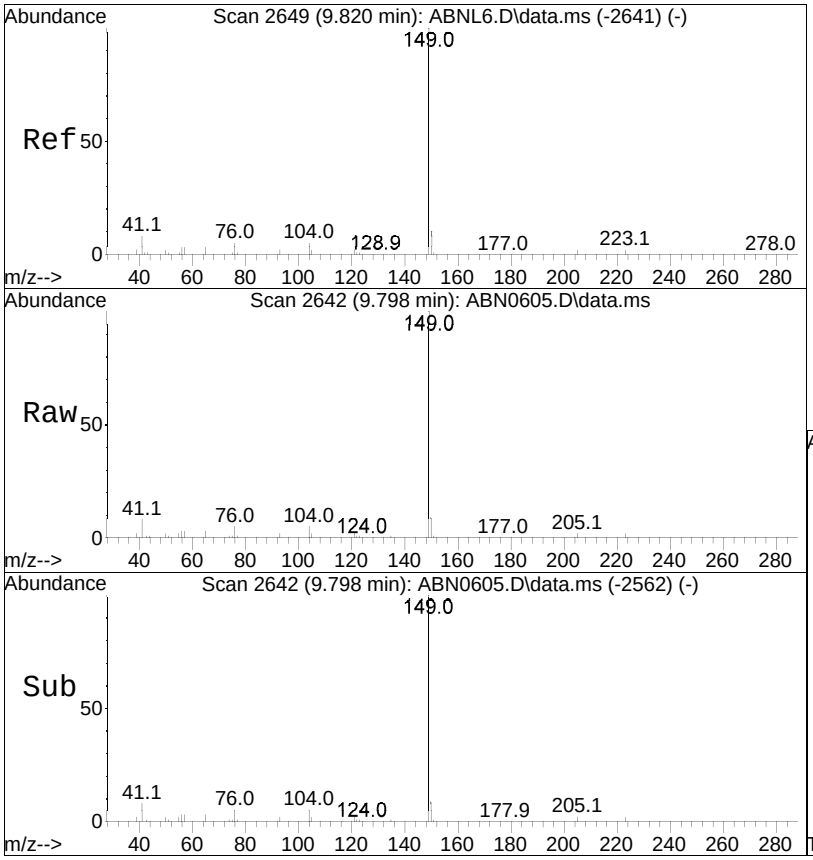


#90
Carbazole
Concen: 4.92 ug/ml
RT: 9.416 min Scan# 2519
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:167 Resp: 160305

Ion	Ratio	Lower	Upper
167	100		
168	14.0	10.6	15.8
166	23.0	17.4	26.0

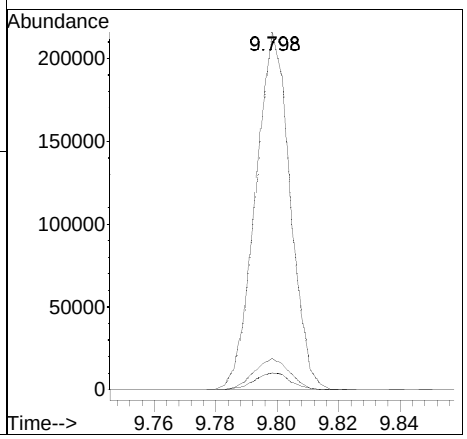


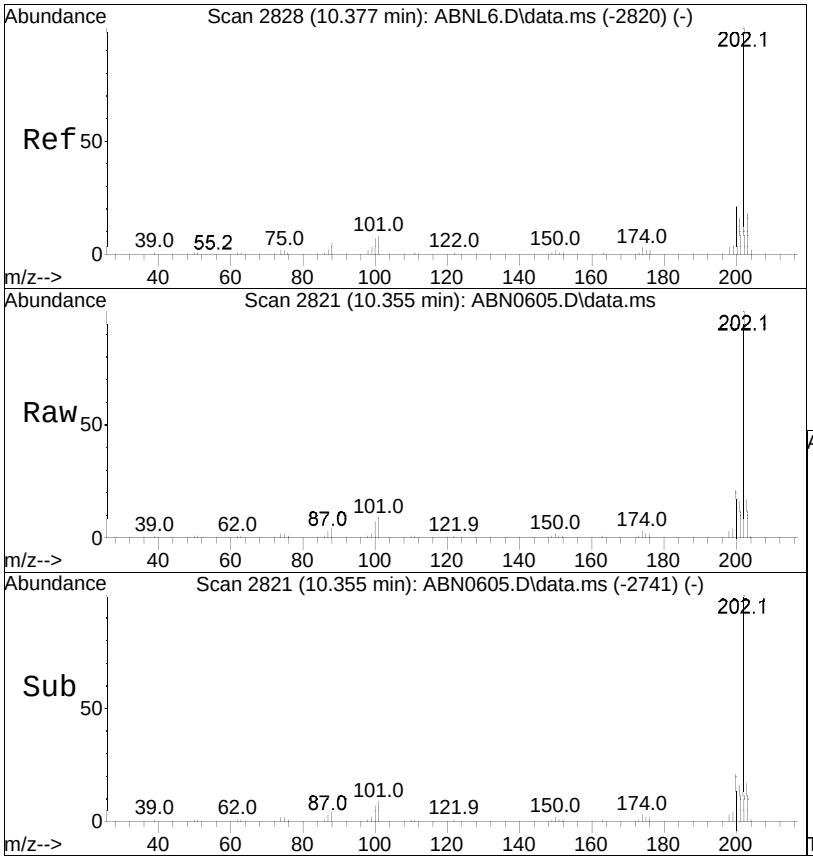


#91
Di-n-butylphthalate
Concen: 4.70 ug/ml
RT: 9.798 min Scan# 2642
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:149 Resp: 166766

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.0	10.6
104	5.1	4.5	6.7

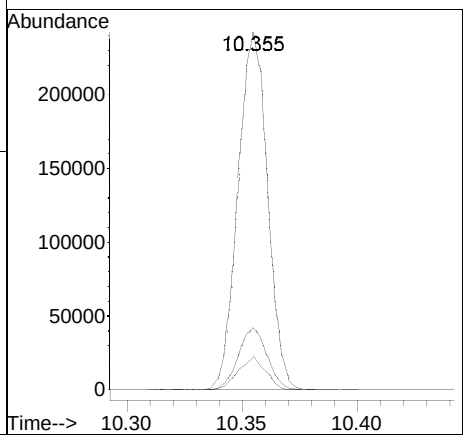


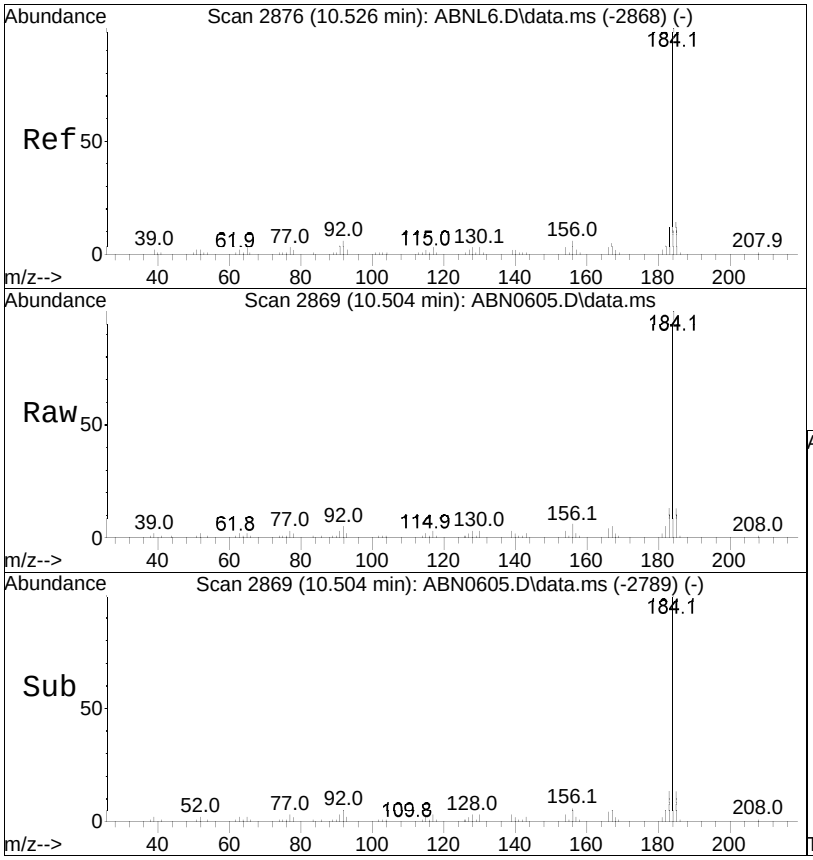


#92
Fluoranthene
Concen: 4.87 ug/ml
RT: 10.355 min Scan# 2821
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:202 Resp: 214076

Ion	Ratio	Lower	Upper
202	100		
101	8.7	13.5	20.3#
203	17.0	13.6	20.4

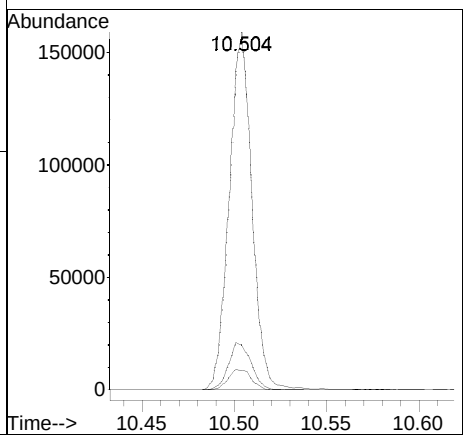


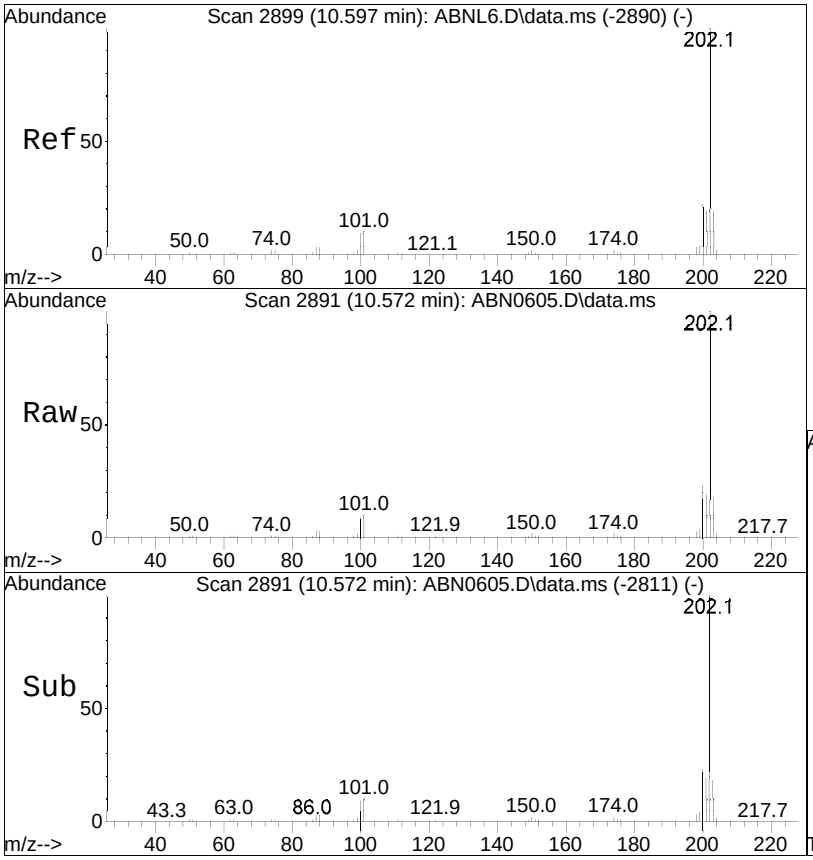


#93
Benzidine
Concen: 5.33 ug/ml
RT: 10.504 min Scan# 2869
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:184 Resp: 134410

Ion	Ratio	Lower	Upper
184	100		
92	5.9	9.1	13.7#
185	13.4	11.1	16.7

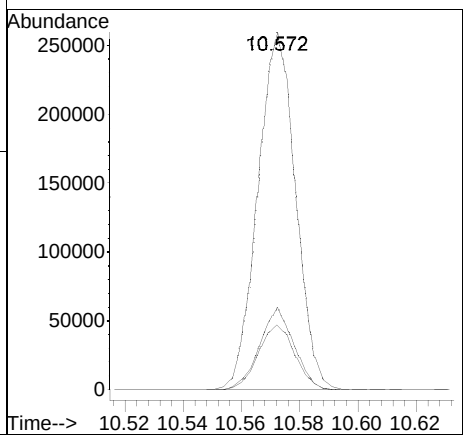


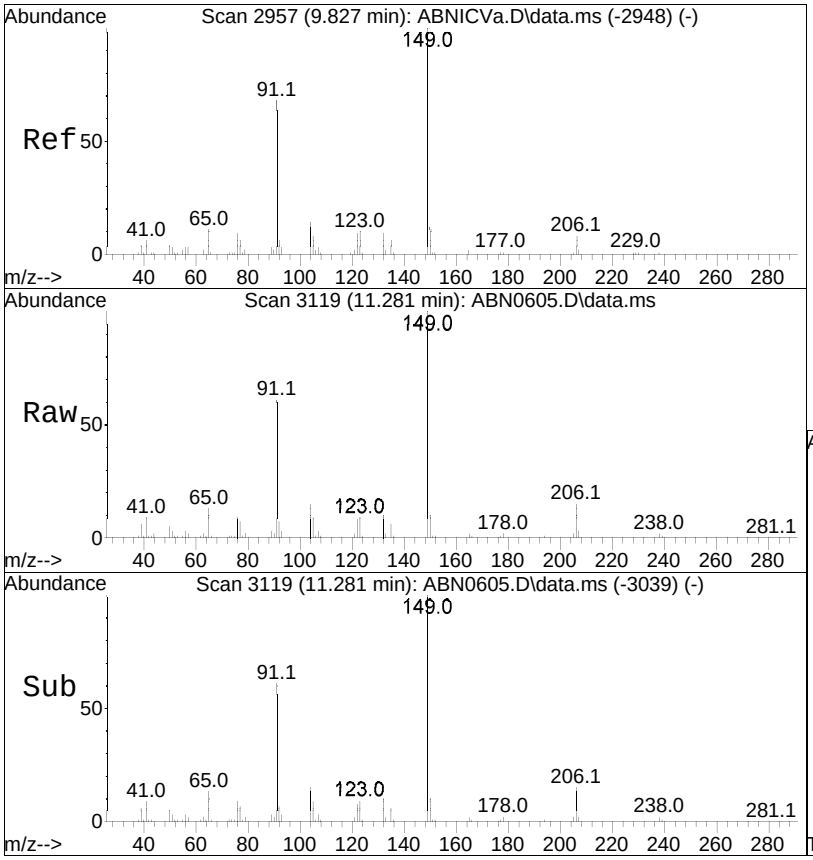


#94
Pyrene
Concen: 5.01 ug/ml
RT: 10.572 min Scan# 2891
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:202 Resp: 231342

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.7	25.1
203	17.7	14.2	21.4

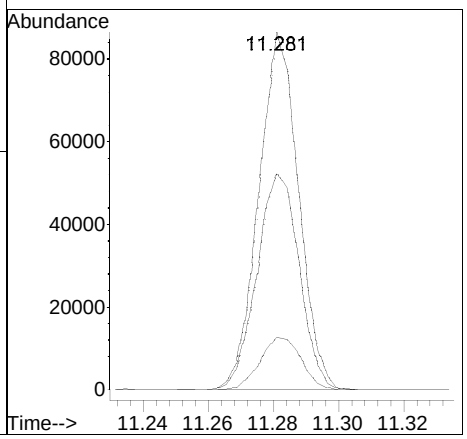


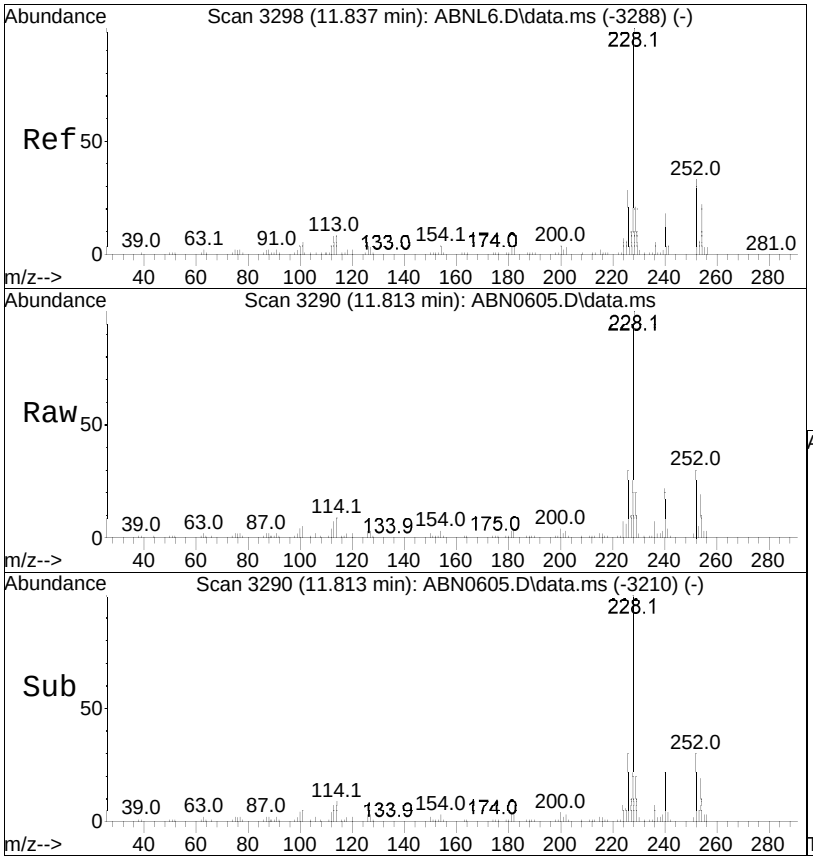


#96
Butyl benzyl phthalate
Concen: 4.48 ug/ml
RT: 11.281 min Scan# 3119
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:149 Resp: 72776

Ion	Ratio	Lower	Upper
149	100		
91	64.4	63.3	94.9
206	15.3	13.9	20.9

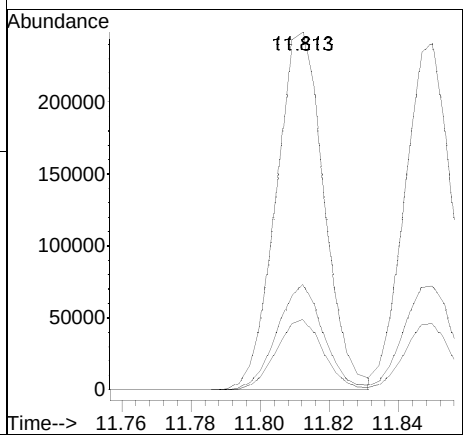


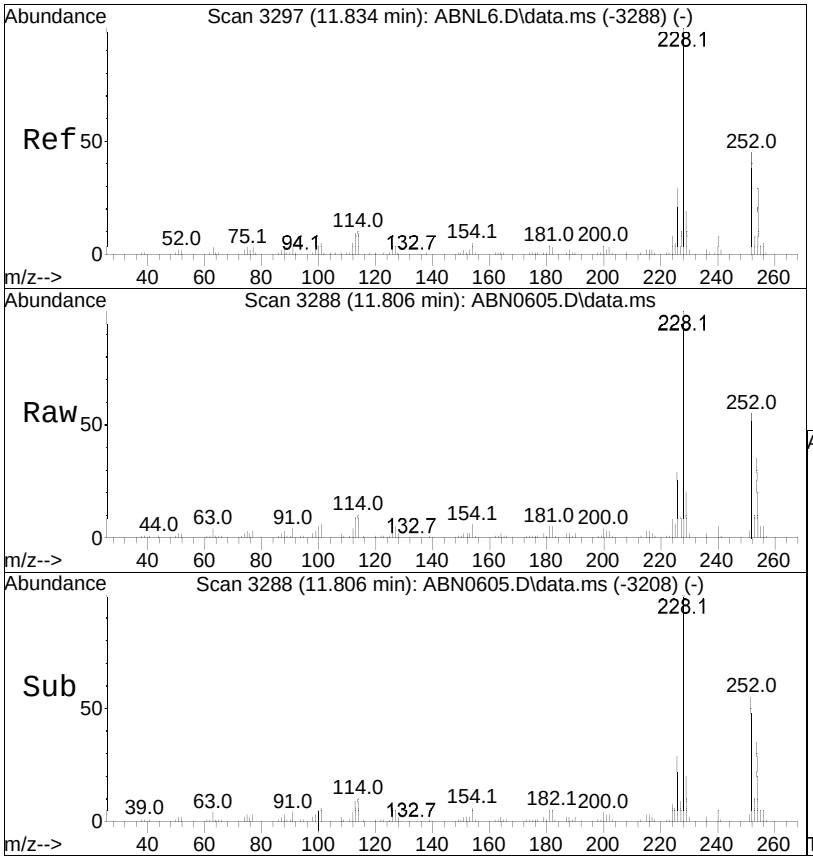


#104
Benzo(a)anthracene
Concen: 4.77 ug/ml M3
RT: 11.813 min Scan# 3290
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:228 Resp: 239328

Ion	Ratio	Lower	Upper
228	100		
226	28.6	22.2	33.4
229	19.5	15.6	23.4

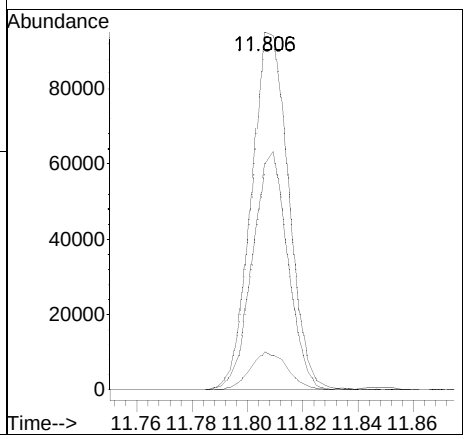


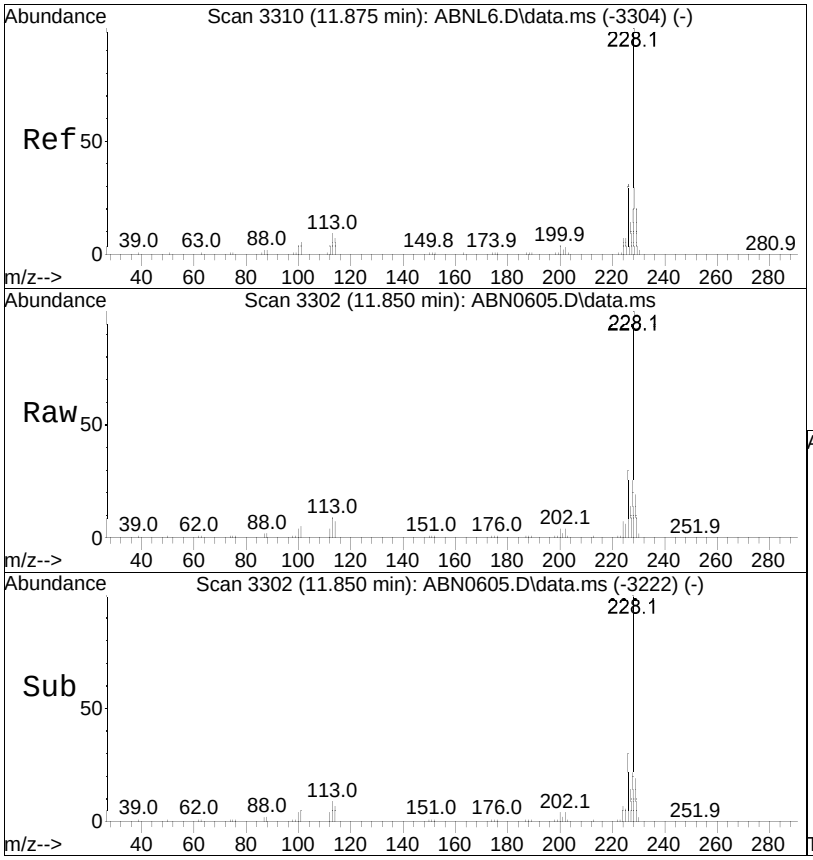


#105
3,3'-Dichlorobenzidine
Concen: 5.14 ug/ml
RT: 11.806 min Scan# 3288
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:252 Resp: 88533

Ion	Ratio	Lower	Upper
252	100		
126	10.8	14.5	21.7#
254	63.6	51.2	76.8

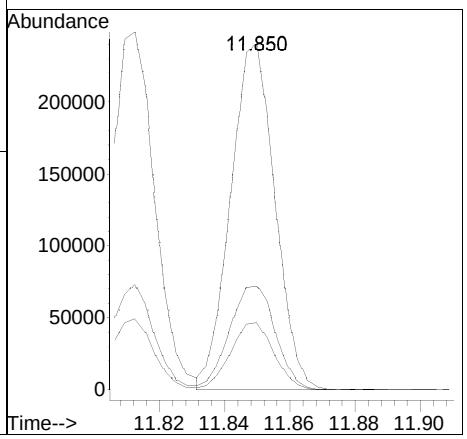


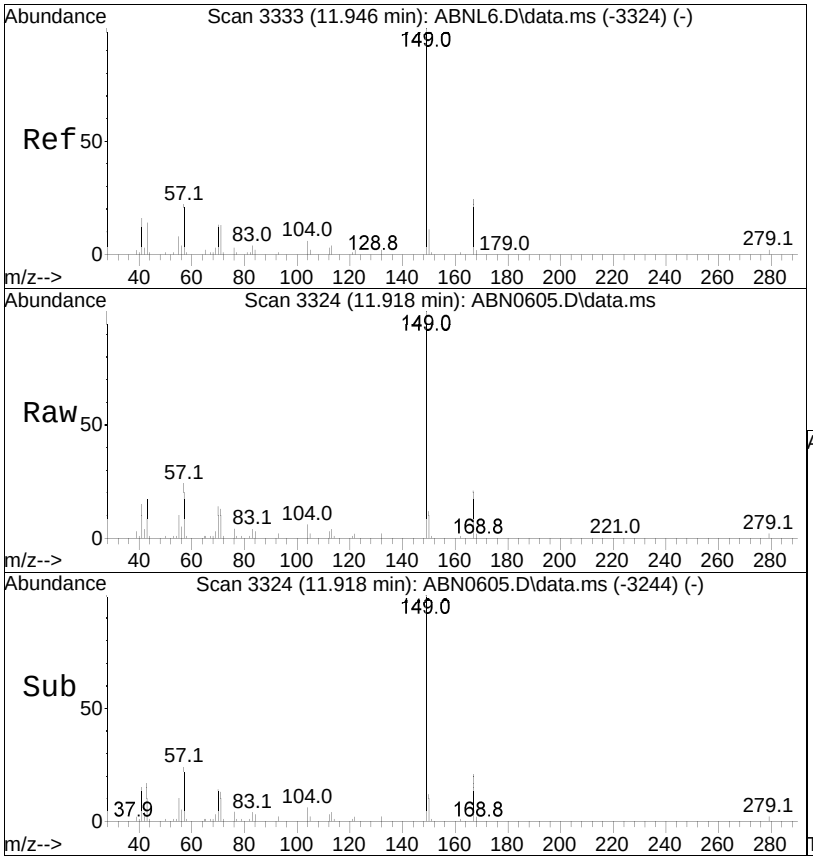


#106
Chrysene
Concen: 4.94 ug/ml
RT: 11.850 min Scan# 3302
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:228 Resp: 227429

Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.0	36.0
229	19.1	15.8	23.8

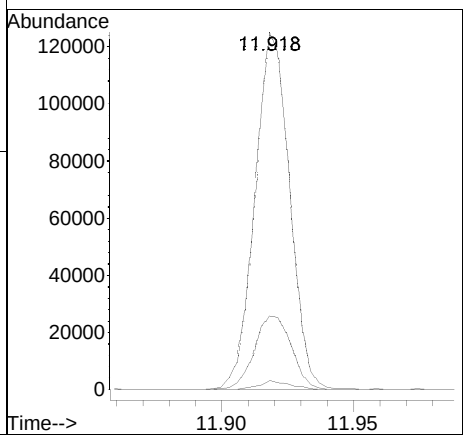


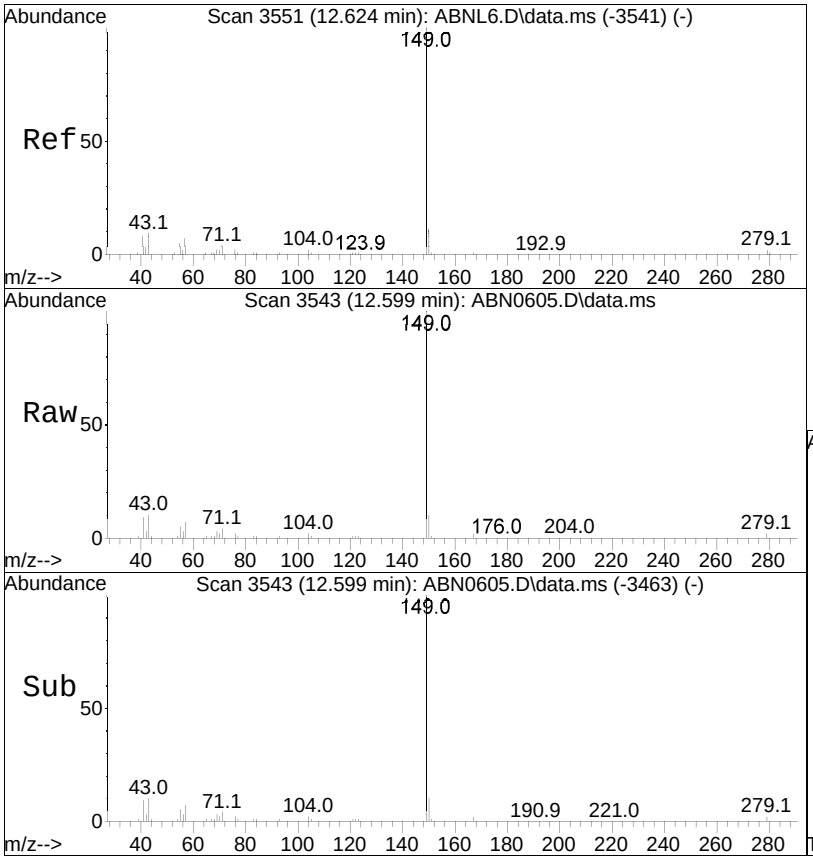


#107
Bis(2-ethylhexyl)phthalate
Concen: 4.66 ug/ml
RT: 11.918 min Scan# 3324
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:149 Resp: 113109

Ion	Ratio	Lower	Upper
149	100		
167	22.1	22.1	33.1
279	2.0	3.0	4.4#

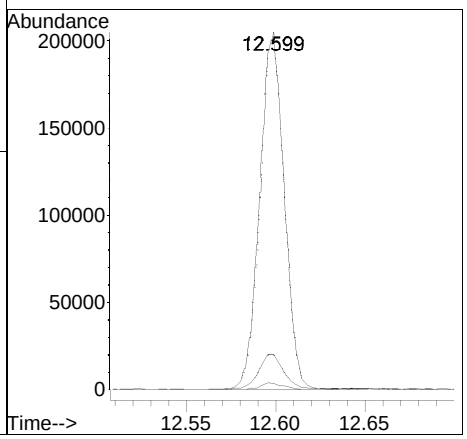


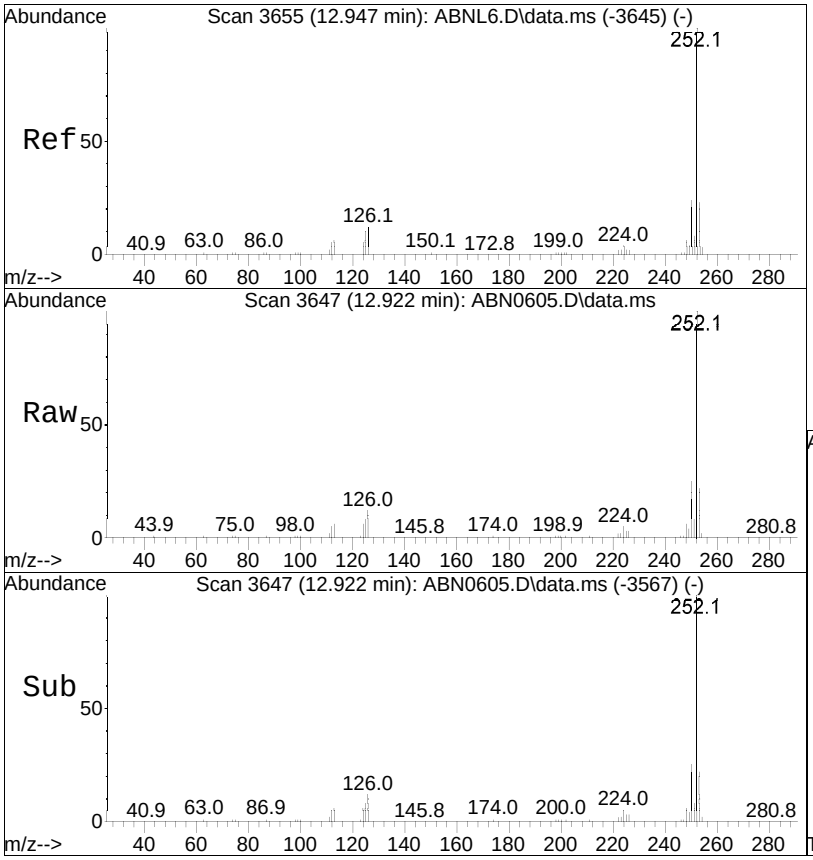


#108
Di-n-octylphthalate
Concen: 4.62 ug/ml M3
RT: 12.599 min Scan# 3543
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:149 Resp: 191203

Ion	Ratio	Lower	Upper
149	100		
43	10.3	18.8	28.2#
167	1.5	1.3	1.9

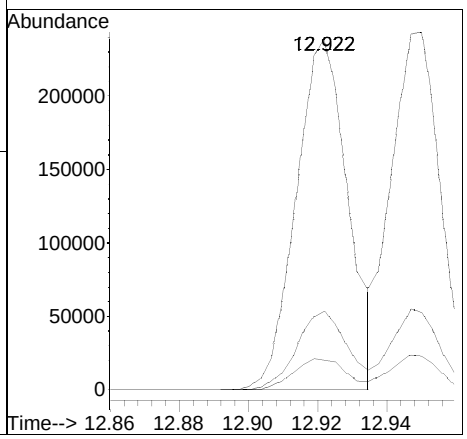


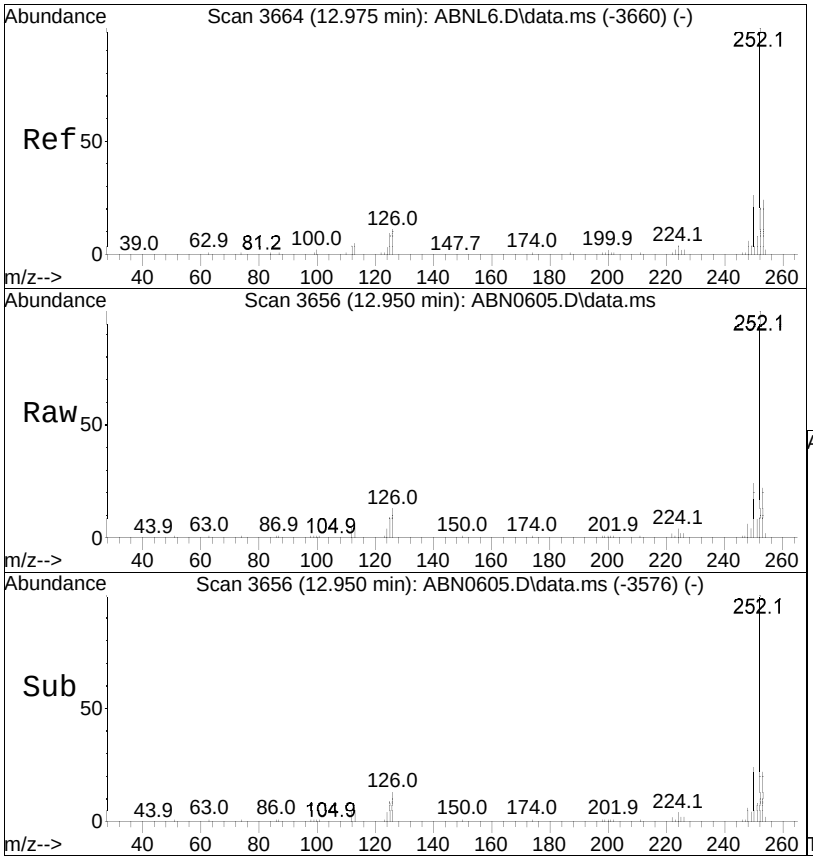


#109
Benzo(b)fluoranthene
Concen: 4.81 ug/ml M3
RT: 12.922 min Scan# 3647
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:252 Resp: 248339

Ion	Ratio	Lower	Upper
252	100		
125	9.2	13.3	19.9#
253	22.1	17.1	25.7

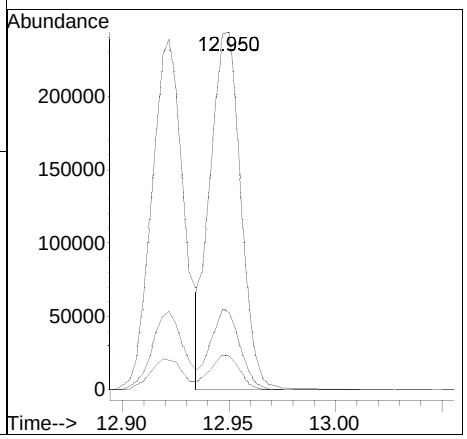


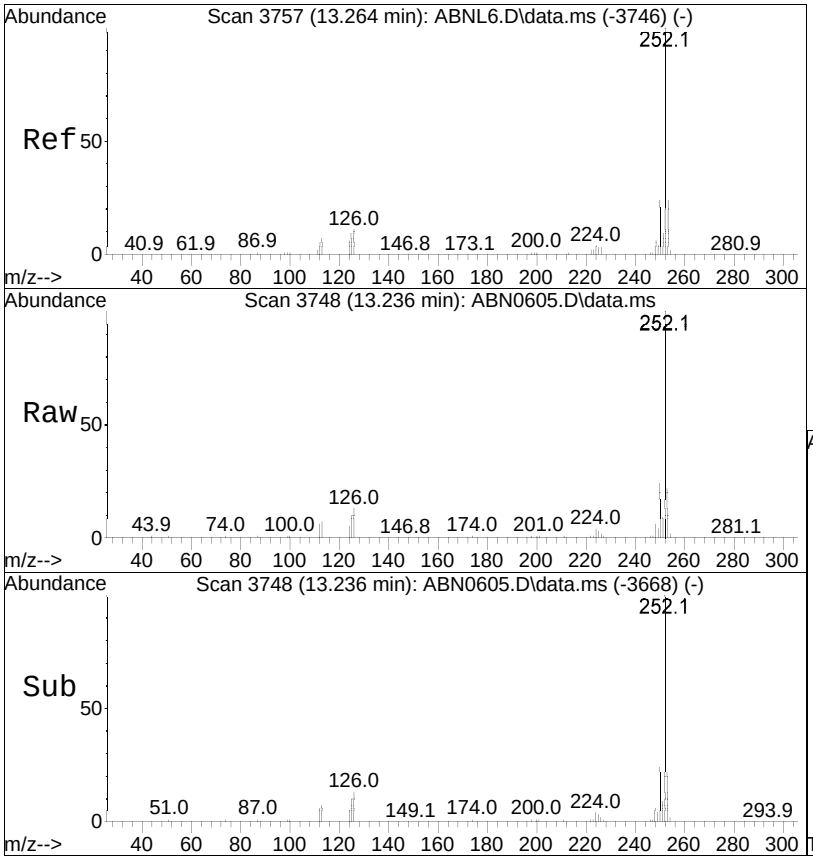


#110
Benzo(k)fluoranthene
Concen: 4.91 ug/ml
RT: 12.950 min Scan# 3656
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:252 Resp: 242826

Ion	Ratio	Lower	Upper
252	100		
125	9.4	13.0	19.6#
253	21.7	16.8	25.2

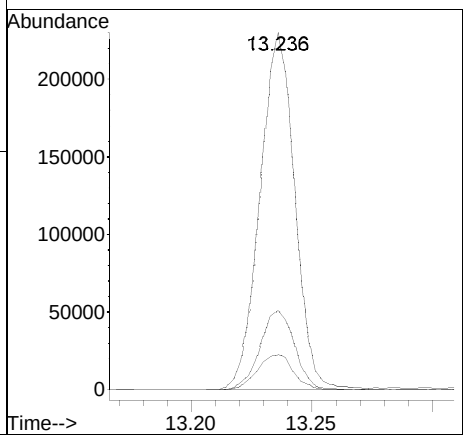


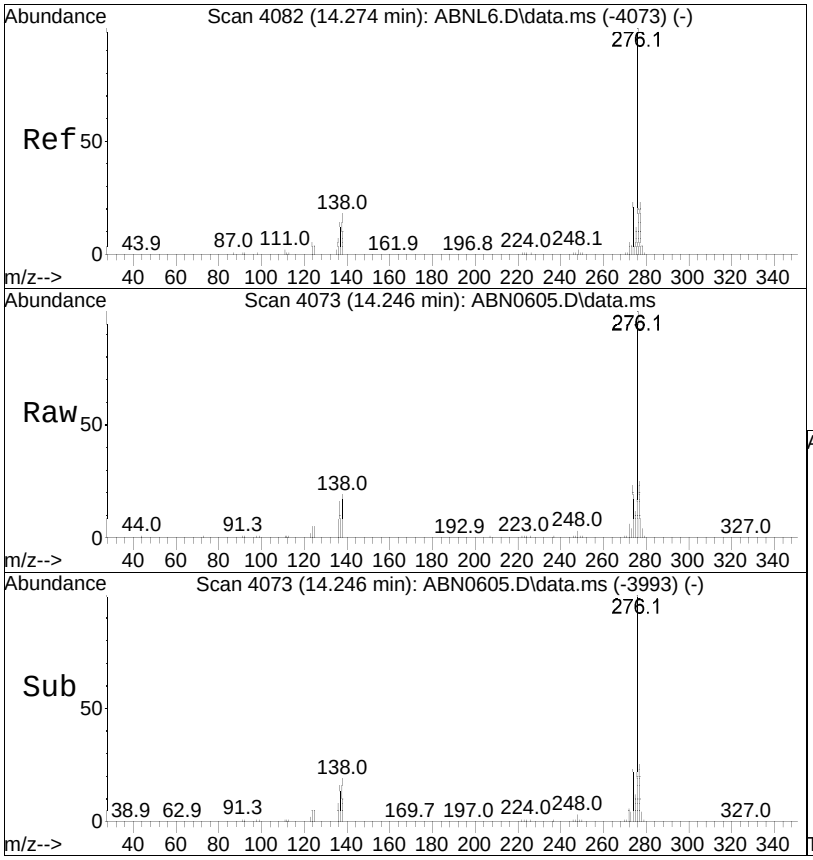


#111
Benzo(a)pyrene
Concen: 4.99 ug/ml
RT: 13.236 min Scan# 3748
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:252 Resp: 229389

Ion	Ratio	Lower	Upper
252	100		
125	10.4	14.2	21.2#
253	22.3	16.9	25.3

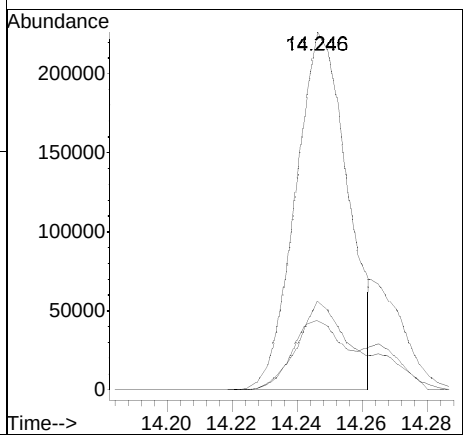


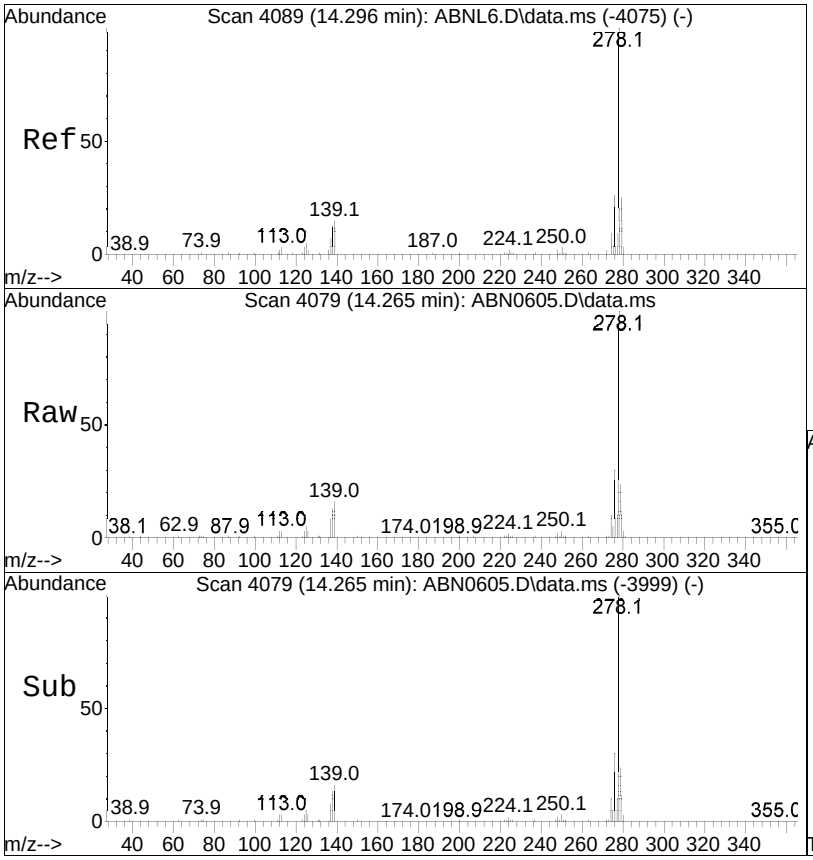


#113
Indeno(1,2,3-cd)pyrene
Concen: 4.98 ug/mL M6
RT: 14.246 min Scan# 4073
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:276 Resp: 252908

Ion	Ratio	Lower	Upper
276	100		
138	19.6	25.1	37.7#
277	29.8	18.6	28.0#

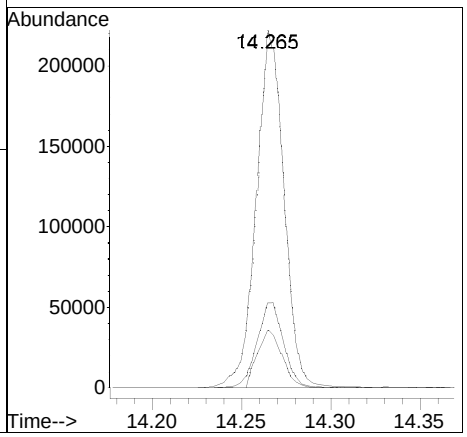


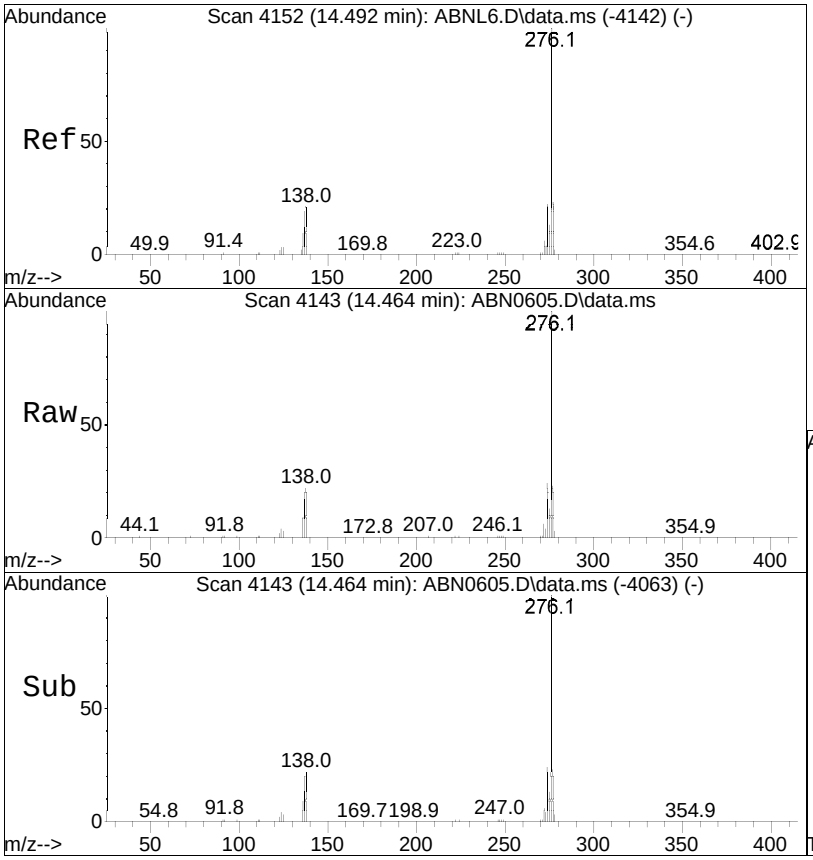


#114
Dibenzo(a,h)anthracene
Concen: 5.09 ug/ml
RT: 14.265 min Scan# 4079
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:278 Resp: 237281

Ion	Ratio	Lower	Upper
278	100		
139	14.5	20.8	31.2#
279	23.2	18.3	27.5

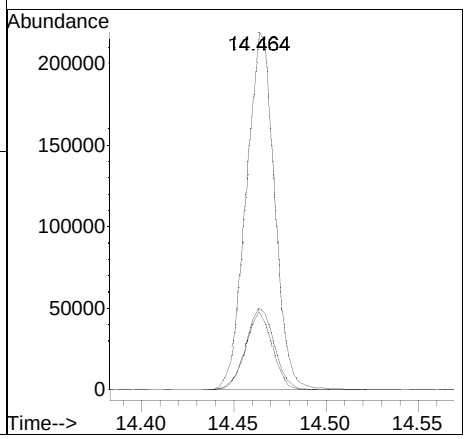




#115
Benzo(ghi)perylene
Concen: 5.00 ug/ml
RT: 14.464 min Scan# 4143
Delta R.T. 0.000 min
Lab File: ABN0605.D
Acq: 5 Jun 2024 8:58 am

Tgt Ion:276 Resp: 232586

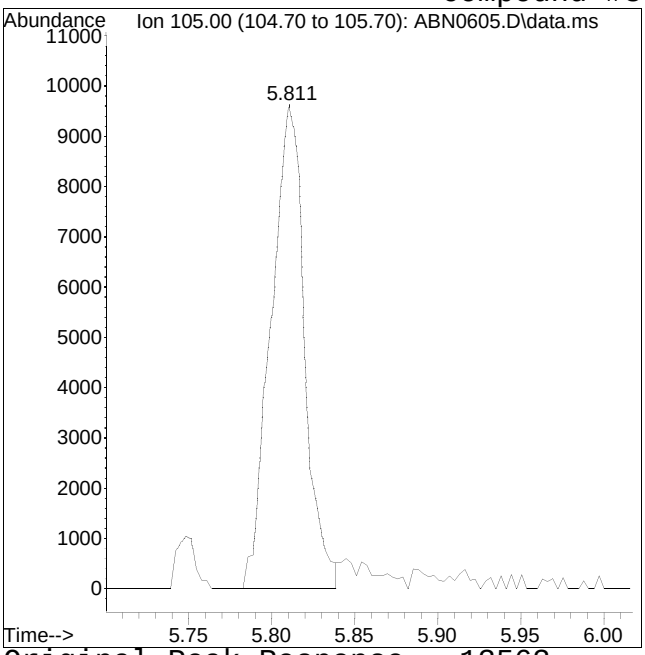
Ion	Ratio	Lower	Upper
276	100		
138	20.9	29.2	43.8#
277	23.0	18.8	28.2

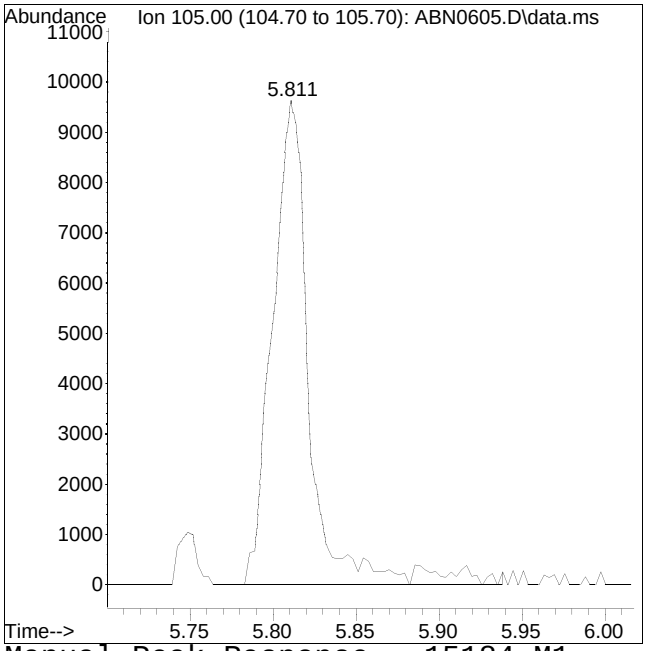


Manual Integration Report

Data Path : I:\8270\Dakota\240605RVT\ QMethod : FS240531RVTDakota.m
Data File : ABN0605.D Operator : Dakota:sz
Date Inj'd : 6/5/2024 8:58 am Instrument : Dakota
Sample : wg1929981-3,32,,ABN 10526 Quant Date : 6/5/2024 9:25 am

Compound #36: Benzoic Acid



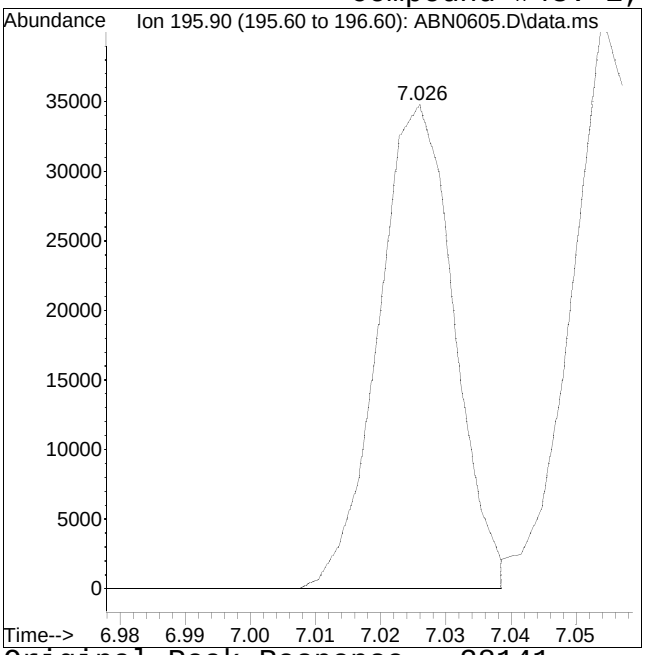


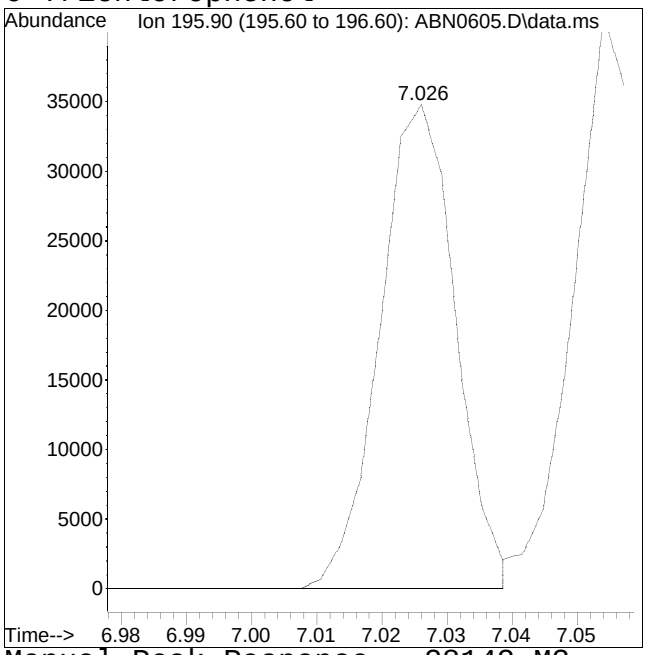
Original Peak Response = 13563 Manual Peak Response = 15184 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270\Dakota\240605RVT\ QMethod : FS240531RVTDakota.m
Data File : ABN0605.D Operator : Dakota:sz
Date Inj'd : 6/5/2024 8:58 am Instrument : Dakota
Sample : wg1929981-3,32,,ABN 10526 Quant Date : 6/5/2024 9:25 am

Compound #43: 2,4,6-Trichlorophenol





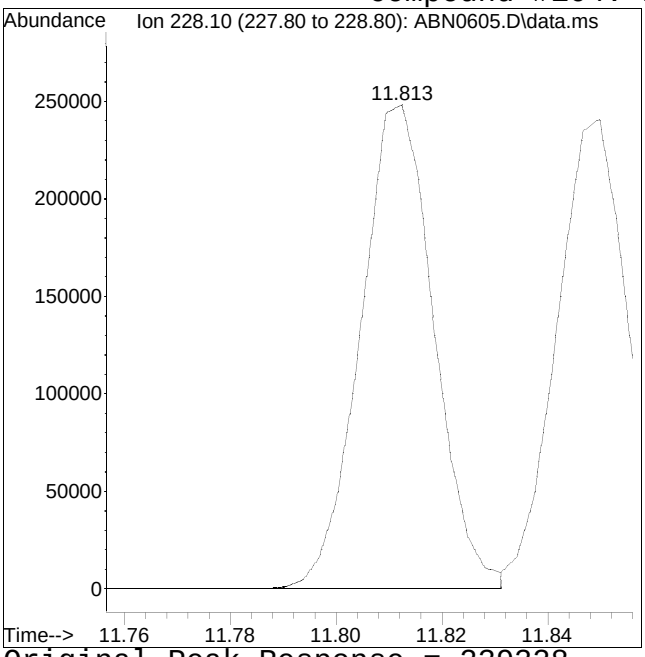
Original Peak Response = 28141 Manual Peak Response = 28142 M3

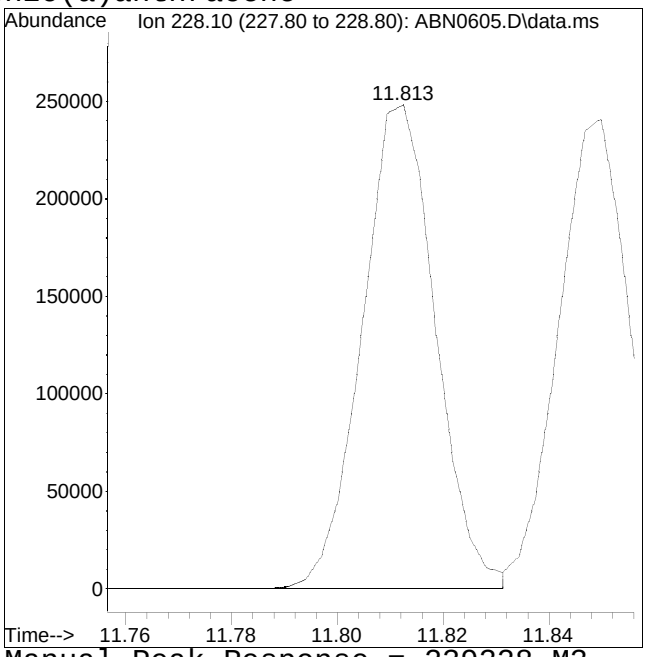
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\240605RVT\ QMethod : FS240531RVTDakota.m
Data File : ABN0605.D Operator : Dakota:sz
Date Inj'd : 6/5/2024 8:58 am Instrument : Dakota
Sample : wg1929981-3,32,,ABN 10526 Quant Date : 6/5/2024 9:25 am

Compound #104: Benzo(a)anthracene





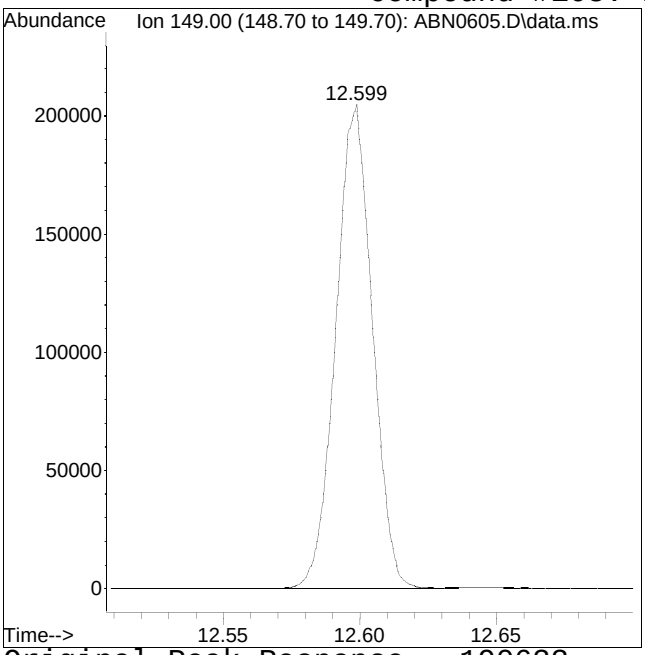
Original Peak Response = 239328 Manual Peak Response = 239328 M3

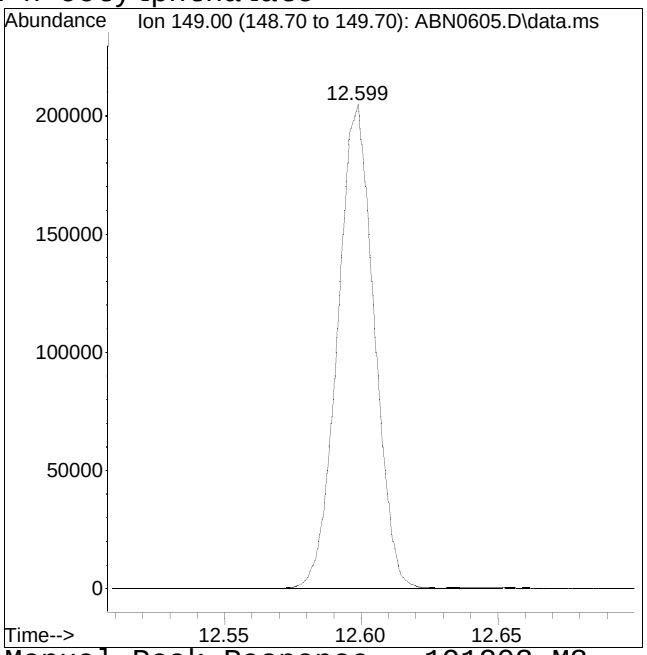
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\240605RVT\ QMethod : FS240531RVTDakota.m
Data File : ABN0605.D Operator : Dakota:sz
Date Inj'd : 6/5/2024 8:58 am Instrument : Dakota
Sample : wg1929981-3,32,,ABN 10526 Quant Date : 6/5/2024 9:25 am

Compound #108: Di-n-octylphthalate





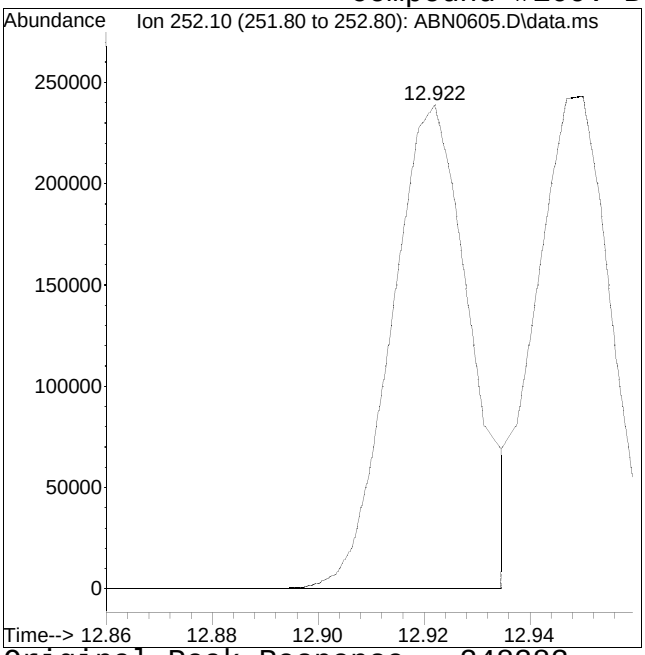
Original Peak Response = 190633 Manual Peak Response = 191203 M3

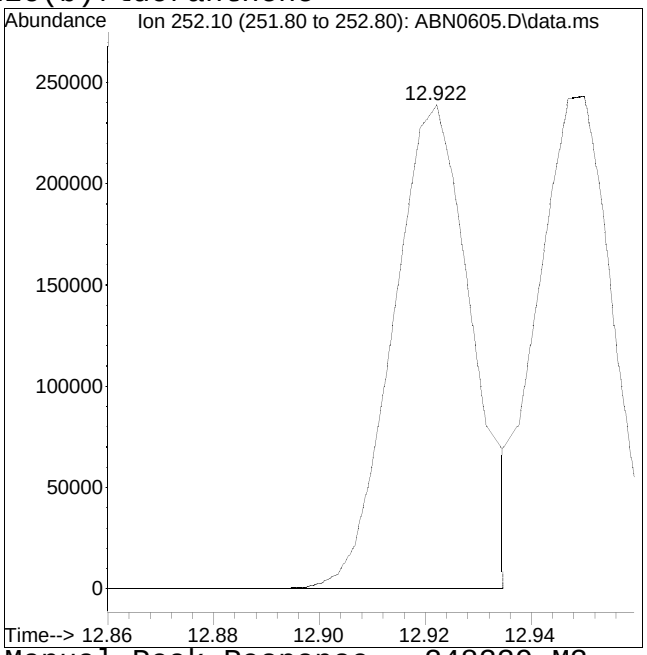
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\240605RVT\ QMethod : FS240531RVTDakota.m
Data File : ABN0605.D Operator : Dakota:sz
Date Inj'd : 6/5/2024 8:58 am Instrument : Dakota
Sample : wg1929981-3,32,,ABN 10526 Quant Date : 6/5/2024 9:25 am

Compound #109: Benzo(b)fluoranthene



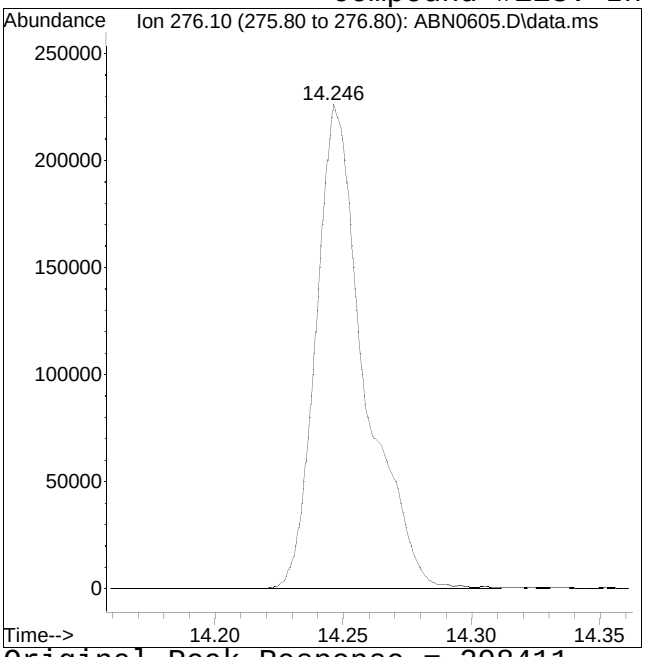


Original Peak Response = 248383 Manual Peak Response = 248339 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

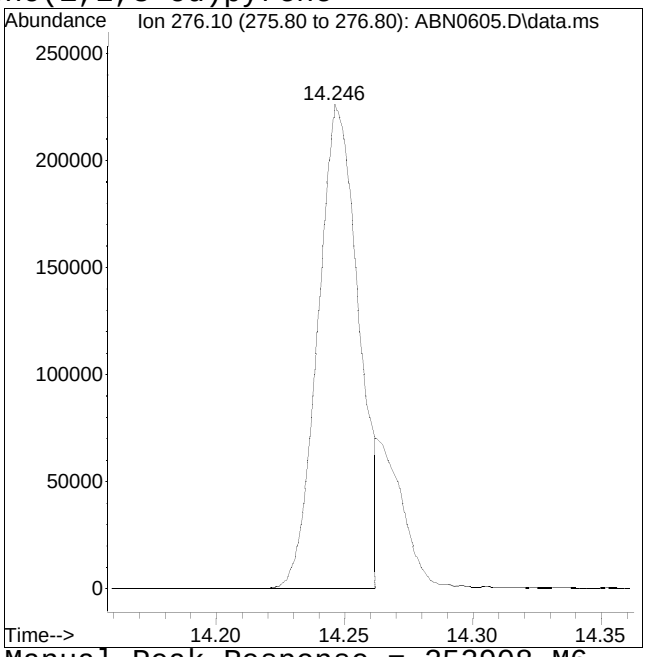
Manual Integration Report

Data Path : I:\8270\Dakota\240605RVT\ QMethod : FS240531RVTDakota.m
Data File : ABN0605.D Operator : Dakota:sz
Date Inj'd : 6/5/2024 8:58 am Instrument : Dakota
Sample : wg1929981-3,32,,ABN 10526 Quant Date : 6/5/2024 9:25 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 298411



Manual Peak Response = 252908 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240605RVT\
Data File : AP90605.D
Acq On : 5 Jun 2024 9:20 am
Operator : Dakota:sz
Sample : wg1929981-4,32,,AP9 10776 mrg0604A
Misc : wg1929981,,ical21172
ALS Vial : 97 Sample Multiplier: 1

Quant Time: Jun 05 10:18:09 2024
Quant Method : I:\8270\Dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 10:18:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	80	0.00
28	T	Benzaldehyde		0.959	0.984	-2.6	93	0.00
29	T	Acetophenone		1.593	1.704	-7.0	89	0.00
30	T	m-Toluidine		1.457	1.598	-9.7	89	0.00
31	T	2-Chloroaniline		1.441	1.534	-6.5	88	0.00
54	I	IS2_Naphthalene-d8		1.000	1.000	0.0	82	0.00
55	T	a-Terpineol		0.248	0.260	-4.8	92	0.00
56	T	3-Chloroaniline		0.136	0.146	-7.4	95	0.00
57	T	2,6-Dichlorophenol		0.319	0.324	-1.6	86	0.00
58	T	1-chloro-2-nitrobenzene		0.121	0.117	3.3	85	0.00
59	T	Caprolactam		0.129	0.131	-1.6	87	0.00
60	T	1,2,4,5-Tetrachlorobenzene		0.449	0.480	-6.9	93	0.00
61	T	Biphenyl		0.931	0.957	-2.8	91	0.00
82	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	82	0.00
83	T	Dichloran	*	5.000	4.173	16.5	84	0.00
84	T	Pentachloronitrobenzene		0.160	0.140	12.5	71	0.00
97	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	84	0.00
98	T	Diphenamid		0.471	0.472	-0.2	87	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : AP90605.D
Acq On : 5 Jun 2024 9:20 am
Operator : Dakota:sz
Sample : wg1929981-4,32,,AP9 10776 mrg0604A
Misc : wg1929981,,ical21172
ALS Vial : 97 Sample Multiplier: 1

Quant Time: Jun 05 10:18:09 2024
Quant Method : I:\8270\Dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 10:18:28 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	4.807	152	24259	4.000	ug/ml		0.00
54) IS2_Naphthalene-d8	6.041	136	86554	4.000	ug/ml	#	0.00
82) IS2_Acenaphthene-d10	7.747	164	57668	4.000	ug/ml		0.00
97) IS2_Phenanthrene-d10	9.180	188	134176	4.000	ug/ml		0.00
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	4.375	105	29849	5.131	ug/ml		99
29) Acetophenone	5.205	105	51664	5.347	ug/ml	#	81
30) m-Toluidine	5.285	106	48466	5.487	ug/ml		94
31) 2-Chloroaniline	5.646	127	46507	5.323	ug/ml	#	92
55) a-Terpineol	6.094	59	28109	5.248	ug/ml	#	77
56) 3-Chloroaniline	6.109	65	15791	5.350	ug/ml		91
57) 2,6-Dichlorophenol	6.137	162	35021	5.077	ug/ml	#	84
58) 1-chloro-2-nitrobenzene	6.392	111	12710	4.872	ug/ml	#	1
59) Caprolactam	6.423	55	14167	5.073	ug/ml	#	72
60) 1,2,4,5-Tetrachloroben...	6.908	216	51905	5.342	ug/ml	#	94
61) Biphenyl	7.200	154	103588	5.144	ug/ml		96
83) Dichloran	8.872	206	10165	4.173	ug/ml	#	65
84) Pentachloronitrobenzene	9.024	237	10093	4.362	ug/ml	#	85
98) Diphenamid	10.078	167	79211	5.014	ug/ml	#	74

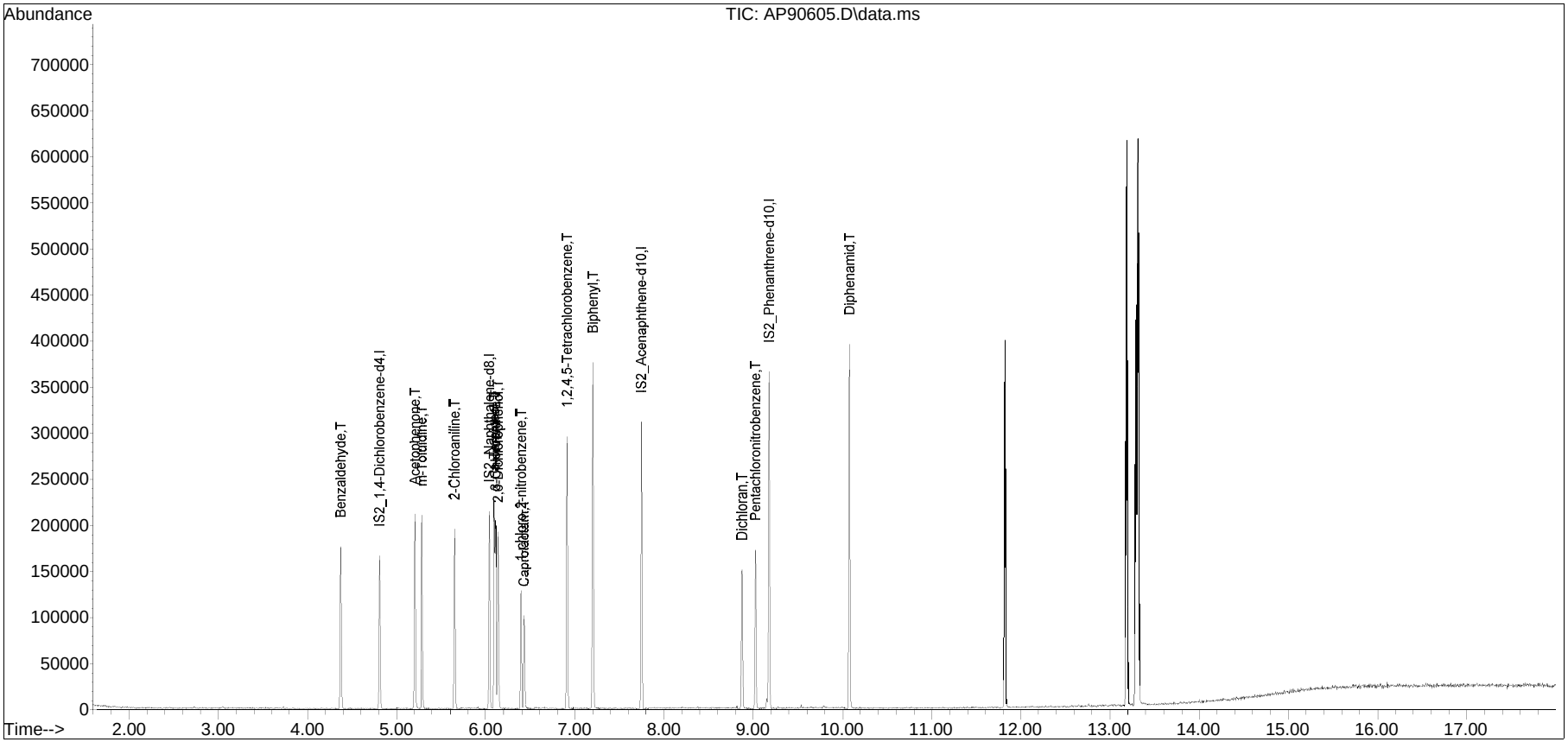
(#) = qualifier out of range (m) = manual integration (+) = signals summed

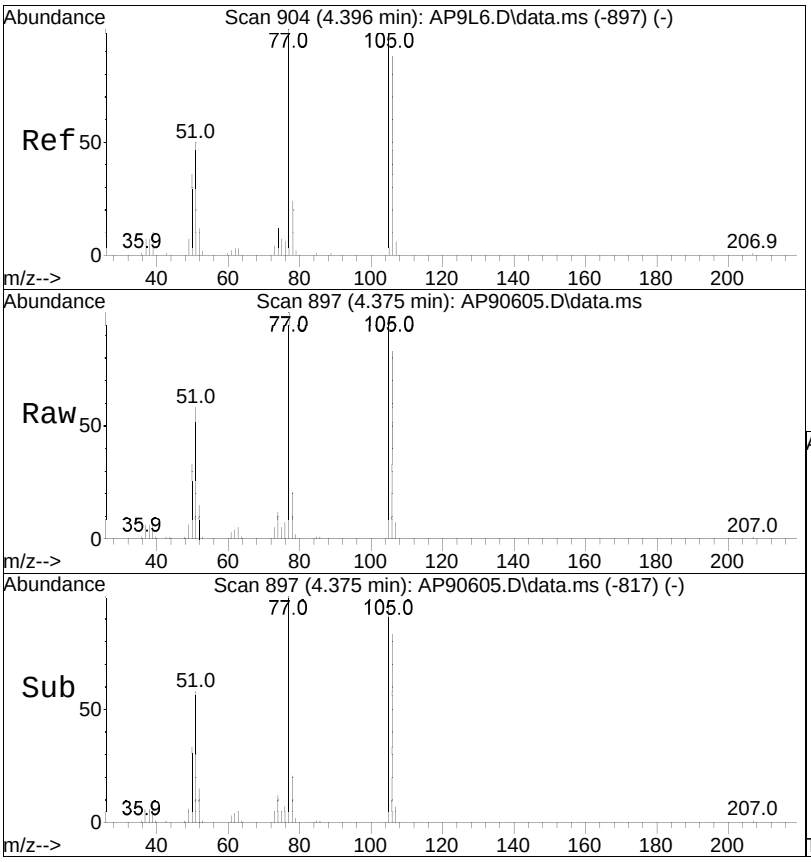
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : AP90605.D
Acq On : 5 Jun 2024 9:20 am
Operator : Dakota:sz
Sample : wg1929981-4,32,,AP9 10776 mrg0604A
Misc : wg1929981,,ical21172
ALS Vial : 97 Sample Multiplier: 1

Quant Time: Jun 05 10:18:09 2024
Quant Method : I:\8270\Dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 10:18:28 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

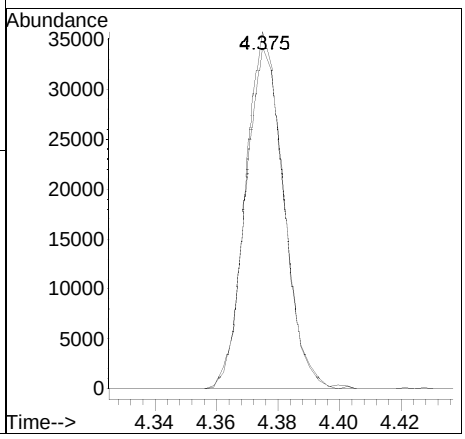


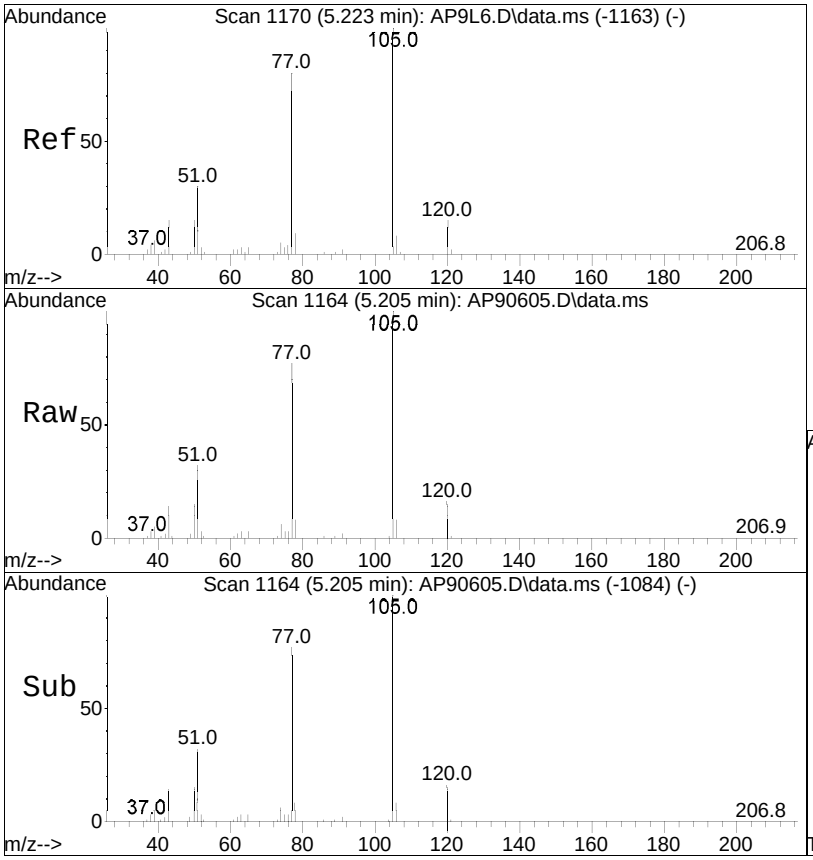


#28
Benzaldehyde
Concen: 5.13 ug/ml
RT: 4.375 min Scan# 897
Delta R.T. 0.000 min
Lab File: AP90605.D
Acq: 5 Jun 2024 9:20 am

Tgt Ion:105 Resp: 29849

Ion	Ratio	Lower	Upper
105	100		
77	101.9	82.2	123.4

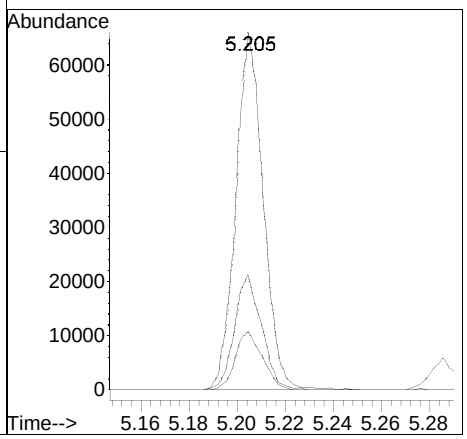


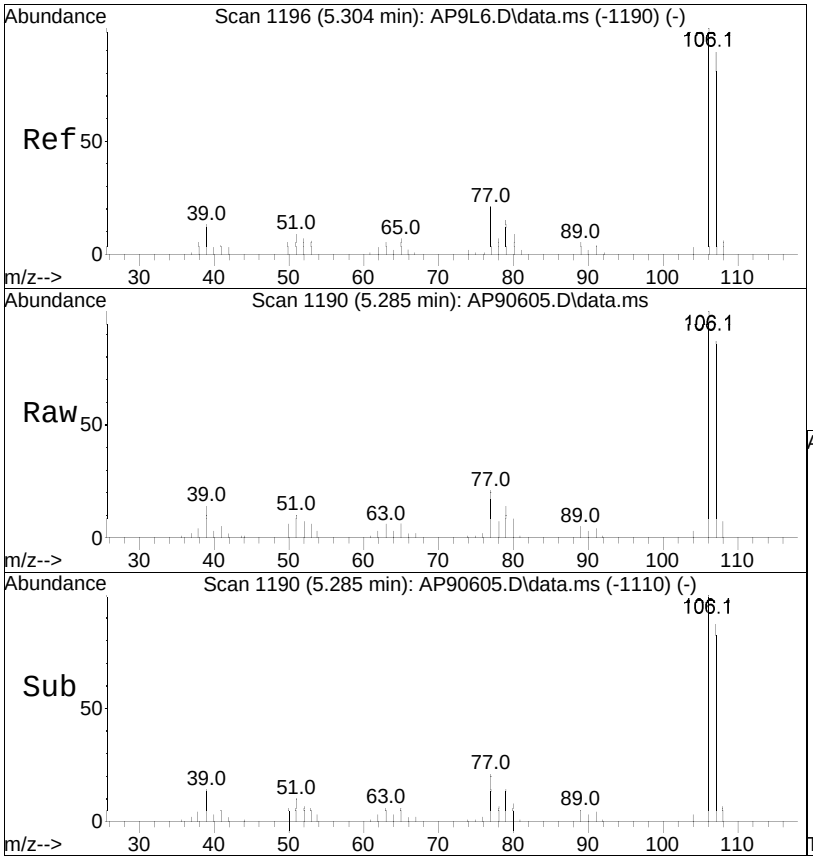


#29
Acetophenone
Concen: 5.35 ug/ml
RT: 5.205 min Scan# 1164
Delta R.T. 0.000 min
Lab File: AP90605.D
Acq: 5 Jun 2024 9:20 am

Tgt Ion:105 Resp: 51664

Ion	Ratio	Lower	Upper
105	100		
120	16.1	20.5	30.7#
51	31.7	34.9	52.3#

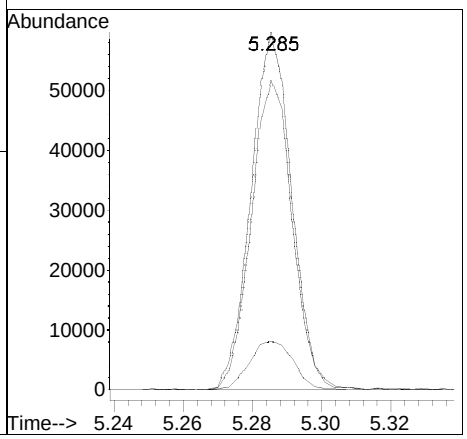


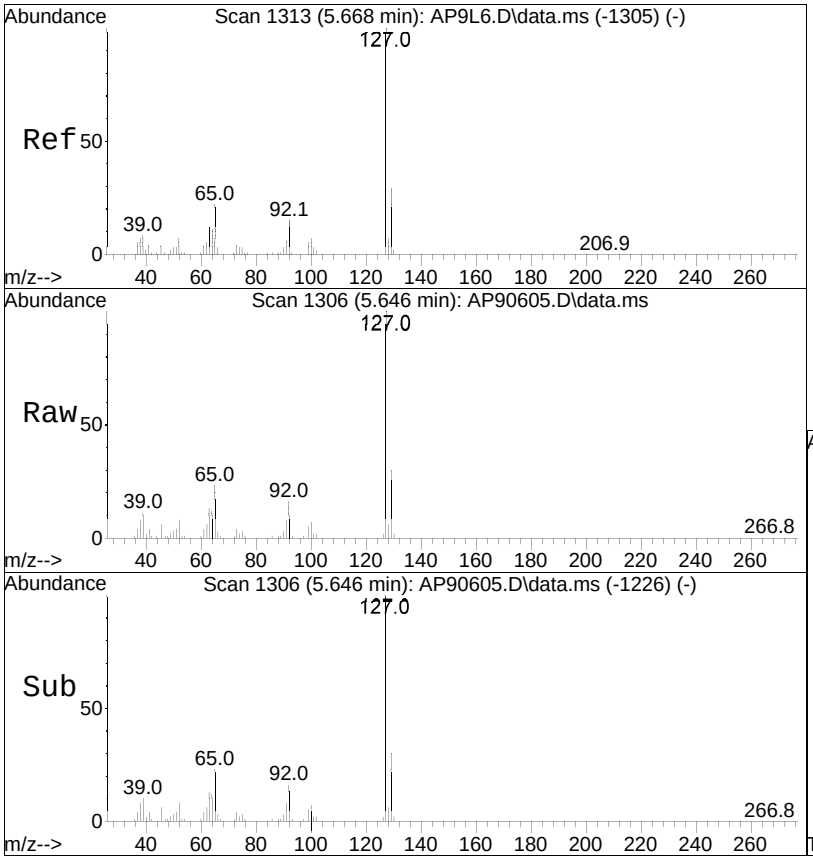


#30
m-Toluidine
Concen: 5.49 ug/ml
RT: 5.285 min Scan# 1190
Delta R.T. 0.000 min
Lab File: AP90605.D
Acq: 5 Jun 2024 9:20 am

Tgt Ion:106 Resp: 48466

Ion	Ratio	Lower	Upper
106	100		
107	87.4	75.7	113.5
79	14.9	11.8	17.8

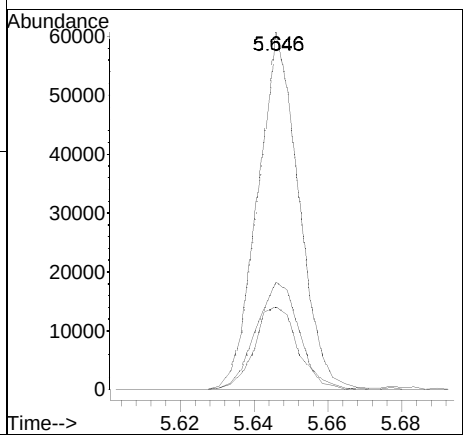


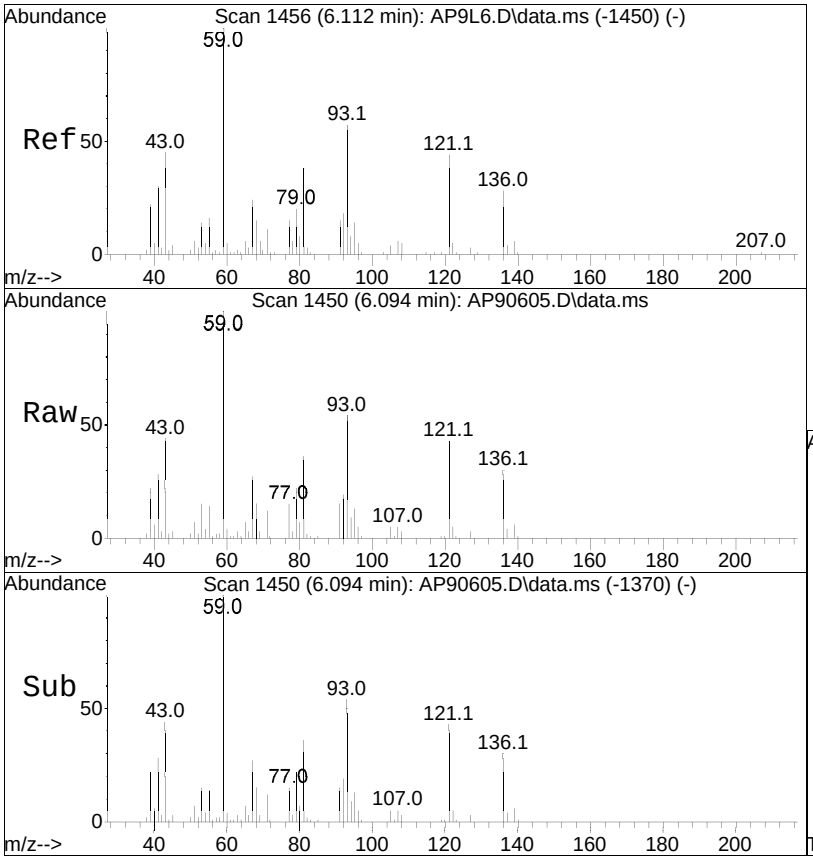


#31
2-Chloroaniline
Concen: 5.32 ug/ml
RT: 5.646 min Scan# 1306
Delta R.T. 0.000 min
Lab File: AP90605.D
Acq: 5 Jun 2024 9:20 am

Tgt Ion:127 Resp: 46507

Ion	Ratio	Lower	Upper
127	100		
129	31.8	25.9	38.9
65	24.7	26.3	39.5#

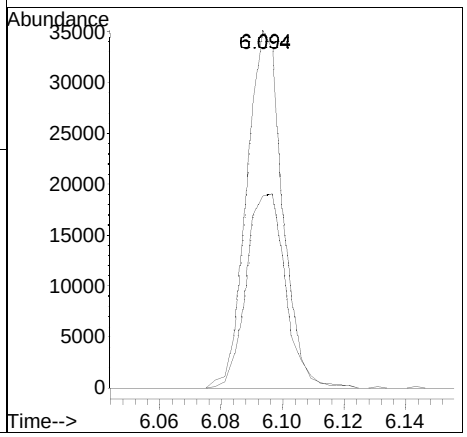


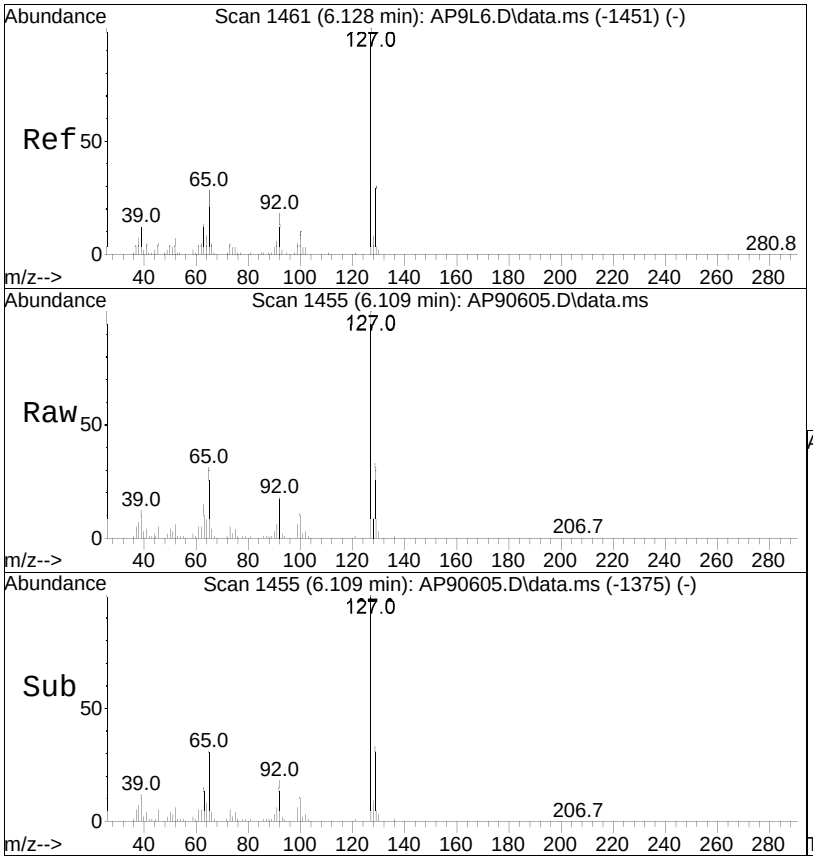


#55
a-Terpineol
Concen: 5.25 ug/ml
RT: 6.094 min Scan# 1450
Delta R.T. 0.000 min
Lab File: AP90605.D
Acq: 5 Jun 2024 9:20 am

Tgt Ion: 59 Resp: 28109

Ion	Ratio	Lower	Upper
59	100		
93	59.7	35.6	53.4#

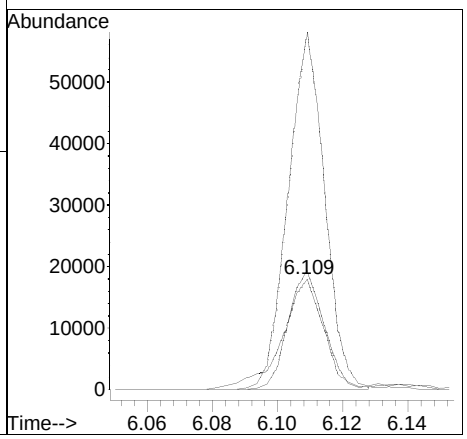


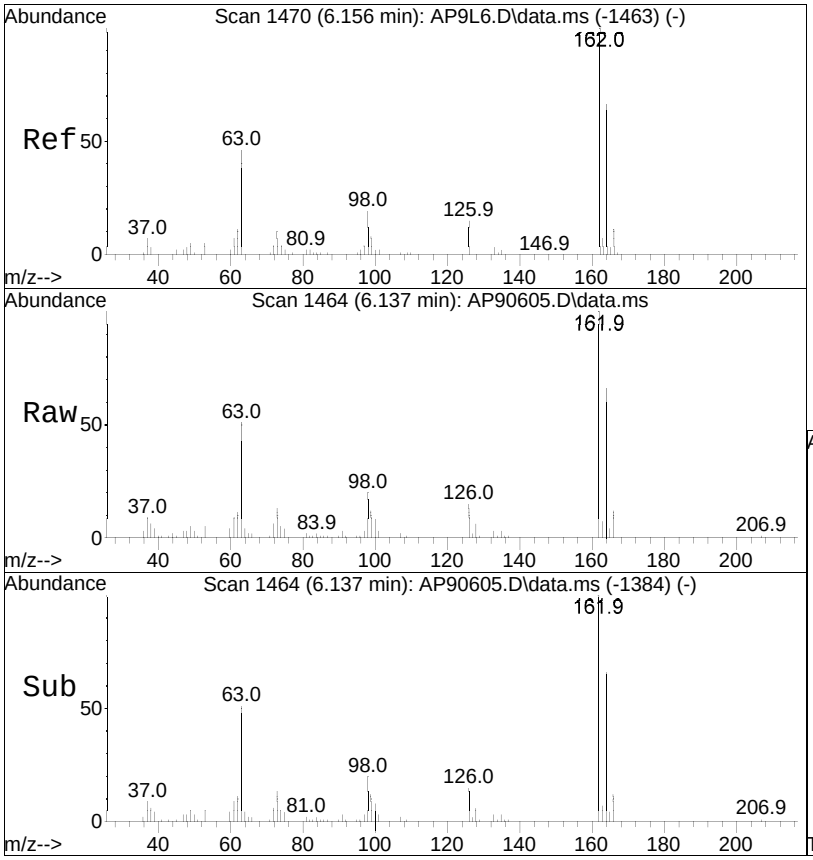


#56
3-Chloroaniline
Concen: 5.35 ug/ml
RT: 6.109 min Scan# 1455
Delta R.T. 0.000 min
Lab File: AP90605.D
Acq: 5 Jun 2024 9:20 am

Tgt Ion: 65 Resp: 15791

Ion	Ratio	Lower	Upper
65	100		
127	283.5	243.2	364.8
129	94.8	78.8	118.2

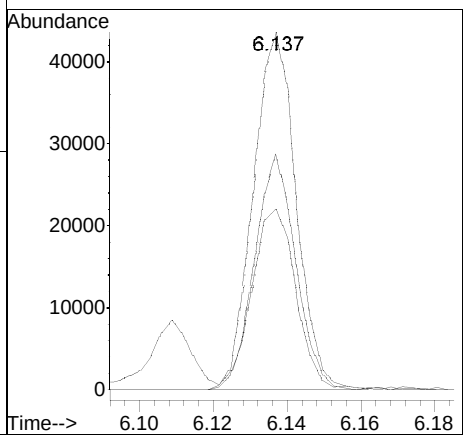


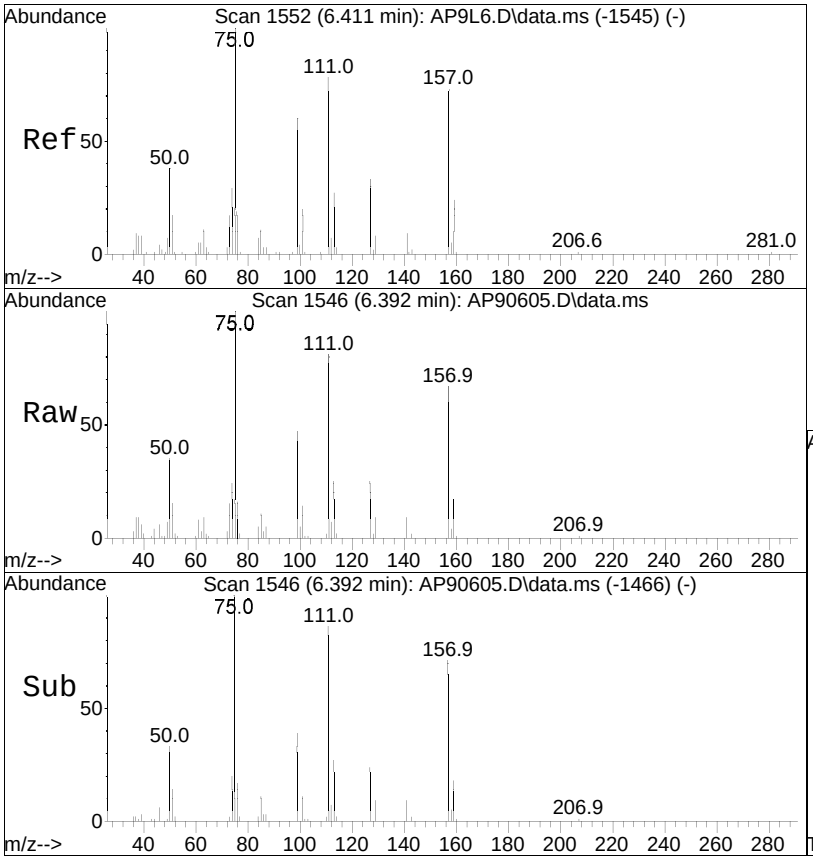


#57
2,6-Dichlorophenol
Concen: 5.08 ug/ml
RT: 6.137 min Scan# 1464
Delta R.T. 0.000 min
Lab File: AP90605.D
Acq: 5 Jun 2024 9:20 am

Tgt Ion:162 Resp: 35021

Ion	Ratio	Lower	Upper
162	100		
164	63.1	51.1	76.7
63	52.1	60.8	91.2#

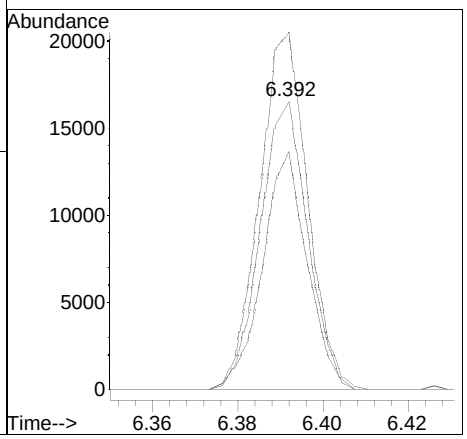


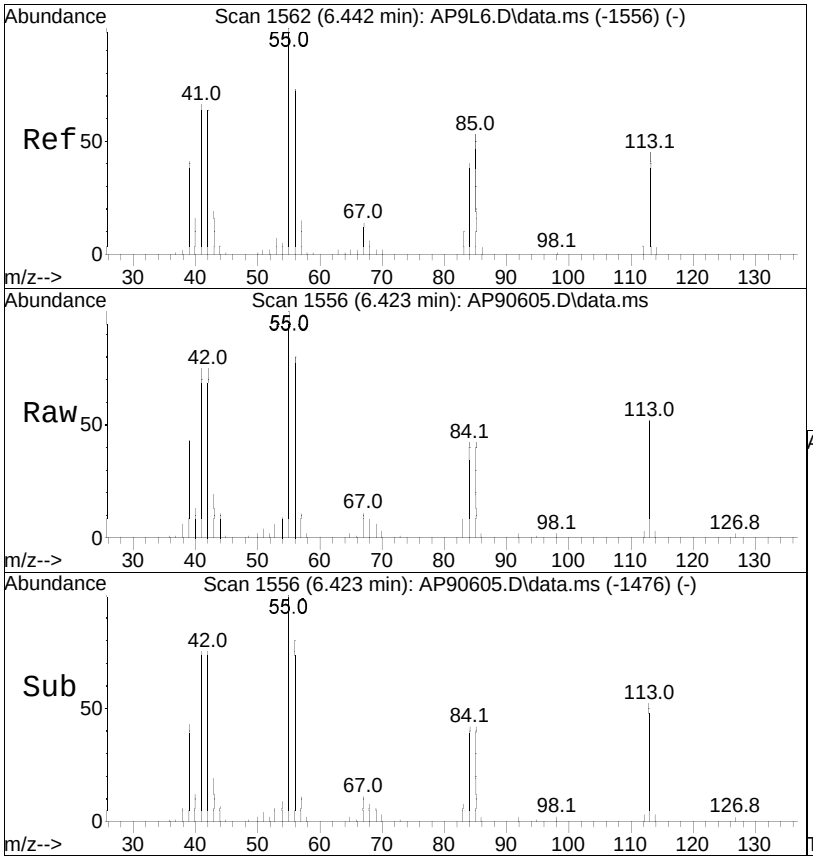


#58
1-chloro-2-nitrobenzene
Concen: 4.87 ug/ml
RT: 6.392 min Scan# 1546
Delta R.T. 0.000 min
Lab File: AP90605.D
Acq: 5 Jun 2024 9:20 am

Tgt Ion:111 Resp: 12710

Ion	Ratio	Lower	Upper
111	100		
157	78.2	0.0	0.0#
75	125.9	28.2	42.2#

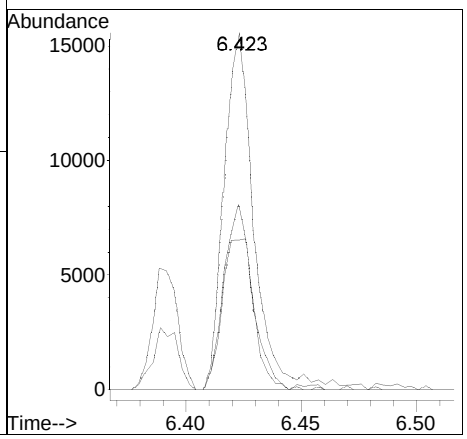


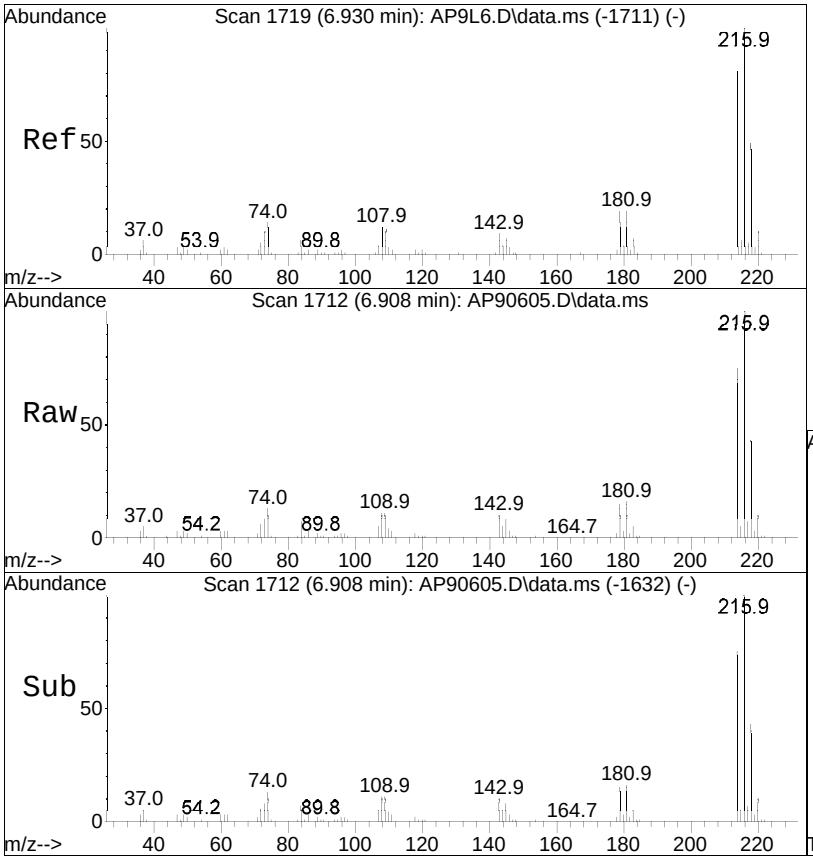


#59
Caprolactam
Concen: 5.07 ug/ml
RT: 6.423 min Scan# 1556
Delta R.T. 0.000 min
Lab File: AP90605.D
Acq: 5 Jun 2024 9:20 am

Tgt Ion: 55 Resp: 14167

Ion	Ratio	Lower	Upper
55	100		
85	45.9	19.8	29.6#
113	48.0	29.6	44.4#

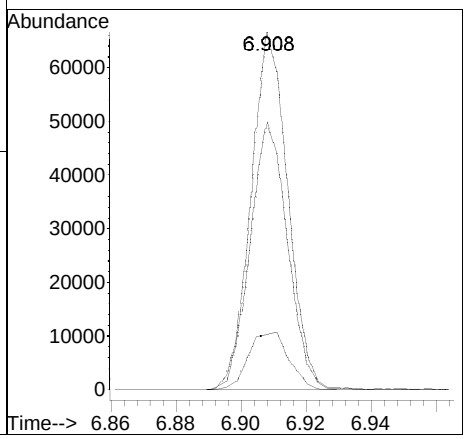


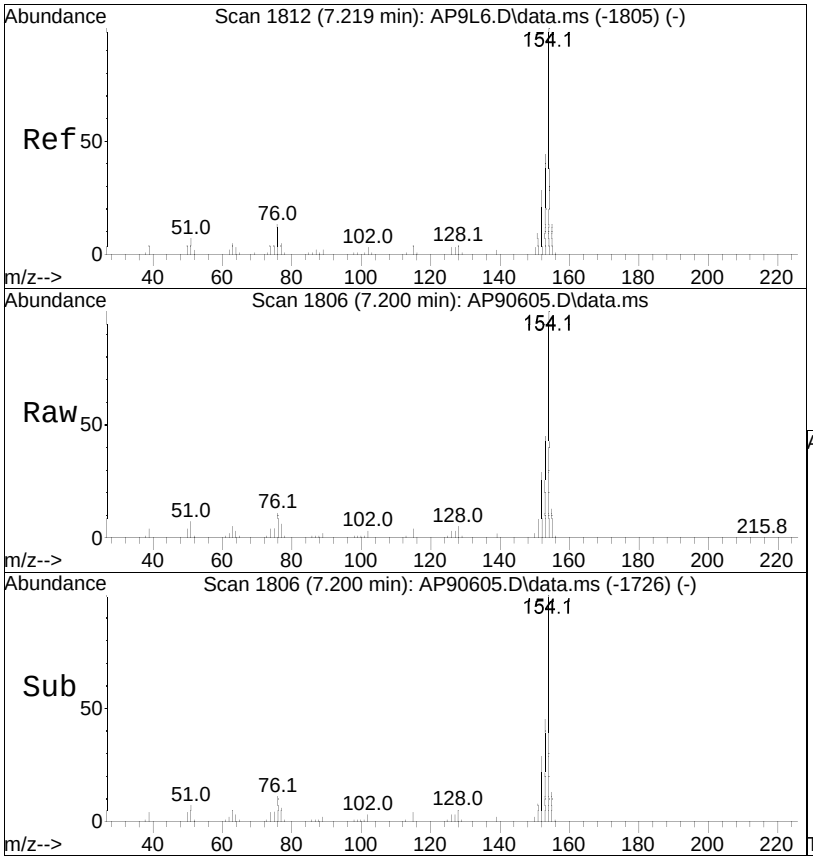


#60
1,2,4,5-Tetrachlorobenzene
Concen: 5.34 ug/ml
RT: 6.908 min Scan# 1712
Delta R.T. 0.000 min
Lab File: AP90605.D
Acq: 5 Jun 2024 9:20 am

Tgt Ion:216 Resp: 51905

Ion	Ratio	Lower	Upper
216	100		
214	76.2	63.7	95.5
179	17.9	19.0	28.6#

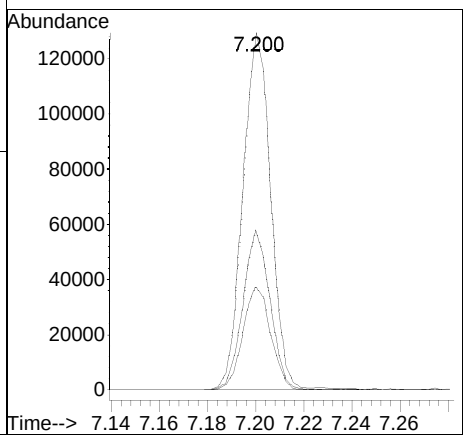


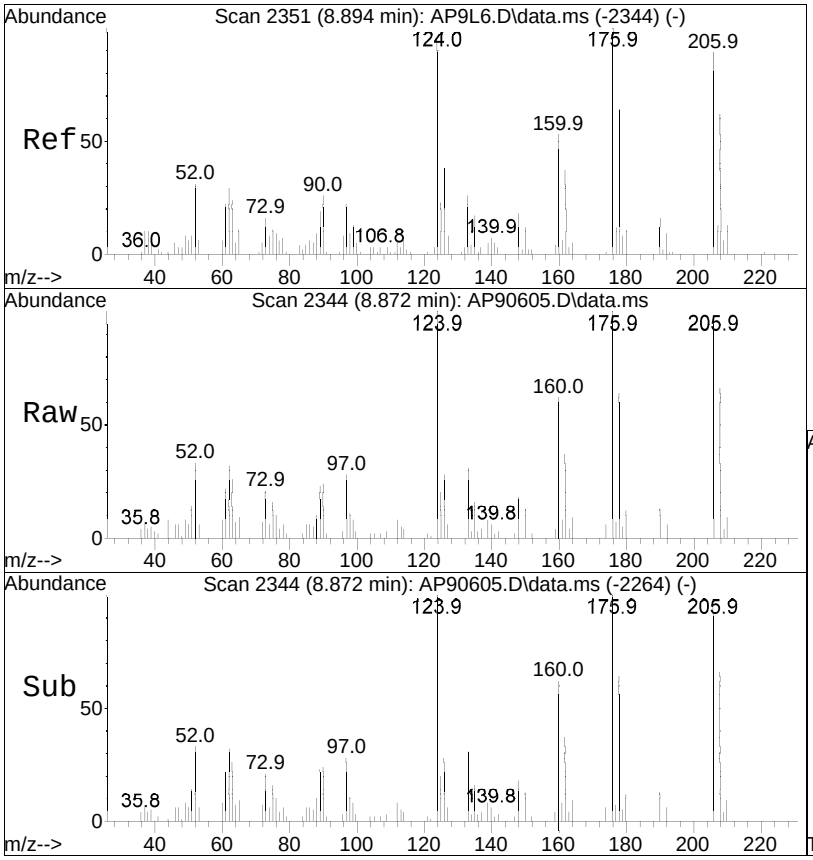


#61
Biphenyl
Concen: 5.14 ug/ml
RT: 7.200 min Scan# 1806
Delta R.T. 0.000 min
Lab File: AP90605.D
Acq: 5 Jun 2024 9:20 am

Tgt Ion:154 Resp: 103588

Ion	Ratio	Lower	Upper
154	100		
153	43.5	32.3	48.5
152	29.0	22.5	33.7

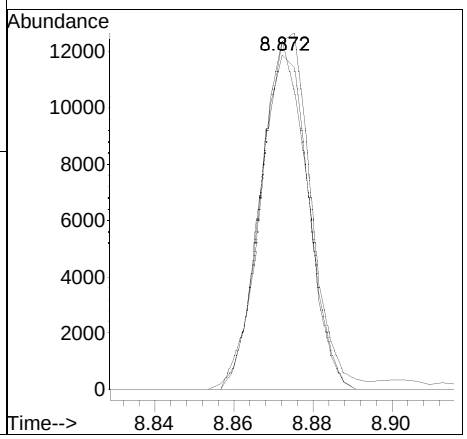


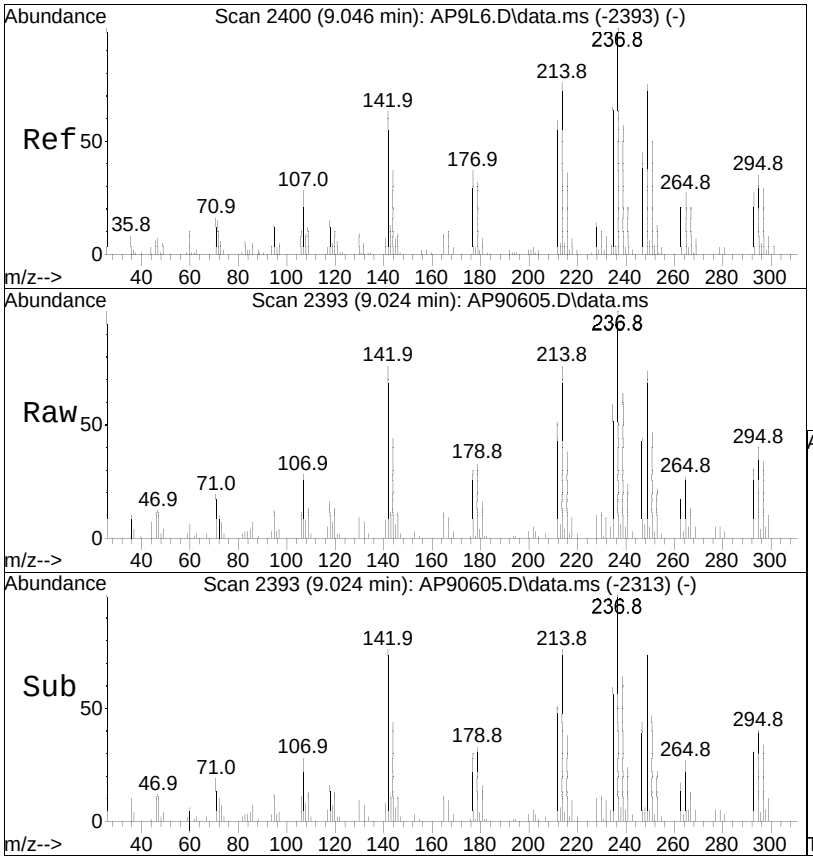


#83
Dichloran
Concen: 4.17 ug/ml
RT: 8.872 min Scan# 2344
Delta R.T. 0.000 min
Lab File: AP90605.D
Acq: 5 Jun 2024 9:20 am

Tgt Ion:206 Resp: 10165

Ion	Ratio	Lower	Upper
206	100		
176	109.1	104.6	157.0
124	99.2	130.5	195.7#

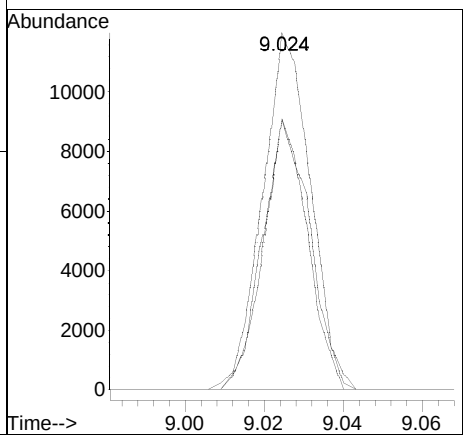


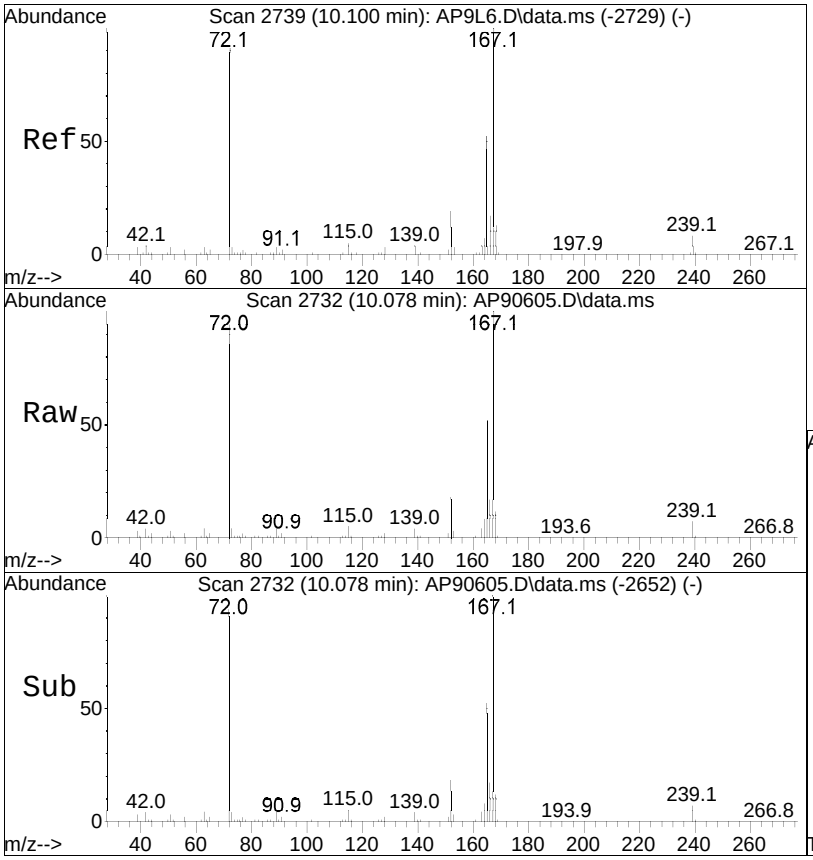


#84
Pentachloronitrobenzene
Concen: 4.36 ug/ml
RT: 9.024 min Scan# 2393
Delta R.T. 0.000 min
Lab File: AP90605.D
Acq: 5 Jun 2024 9:20 am

Tgt Ion:237 Resp: 10093

Ion	Ratio	Lower	Upper
237	100		
142	70.9	77.0	115.4#
214	73.3	58.2	87.4

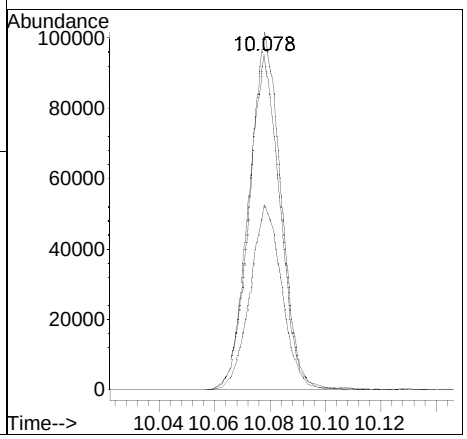




#98
Diphenamid
Concen: 5.01 ug/ml
RT: 10.078 min Scan# 2732
Delta R.T. 0.000 min
Lab File: AP90605.D
Acq: 5 Jun 2024 9:20 am

Tgt Ion:167 Resp: 79211

Ion	Ratio	Lower	Upper
167	100		
72	94.7	109.7	164.5#
165	53.0	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\Dakota\240605RVT\	QMethod	: FS240531RVTDakota.m
Data File	: AP90605.D	Operator	: Dakota:sz
Date Inj'd	: 6/5/2024 9:20 am	Instrument	: Dakota
Sample	: wg1929981-4,32,,AP9 10776	Quant Date	: 6/5/2024 10:18 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240605RVT\
Data File : ADP0605.D
Acq On : 5 Jun 2024 9:42 am
Operator : Dakota:sz
Sample : wg1929981-5,32,,ADP 10751 gmr0518A
Misc : wg1929981,,ical21172
ALS Vial : 98 Sample Multiplier: 1

Quant Time: Jun 05 10:18:41 2024
Quant Method : I:\8270\Dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 10:19:02 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	88	0.00
33	T	n-Decane		1.164	1.091	6.3	88	0.00
85	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	87	0.00
86	T	Atrazine		0.423	0.394	6.9	88	0.00
99	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	88	0.00
100	T	n-Octadecane		0.325	0.308	5.2	88	0.00
101	T	Parathion	*	5.000	4.188	16.2	76	0.00
102	T	3,3'-Dimethylbenzidine	*	5.000	4.756	4.9	90	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : ADP0605.D
Acq On : 5 Jun 2024 9:42 am
Operator : Dakota:sz
Sample : wg1929981-5,32,,ADP 10751 gmr0518A
Misc : wg1929981,,ical21172
ALS Vial : 98 Sample Multiplier: 1

Quant Time: Jun 05 10:18:41 2024
Quant Method : I:\8270\Dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 10:19:02 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.807	152	27971	4.000	ug/ml	0.00
85) IS3_Acenaphthene-d10	7.747	164	66116	4.000	ug/ml	0.00
99) IS3_Phenanthrene-d10	9.180	188	156367	4.000	ug/ml	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.695	57	38159	4.689	ug/ml#	28
86) Atrazine	8.944	200	32573	4.655	ug/ml	91
100) n-Octadecane	9.146	57	60154	4.732	ug/ml#	1
101) Parathion	9.957	109	12549	4.188	ug/ml	96
102) 3,3'-Dimethylbenzidine	11.247	212	146894	4.756	ug/ml	98

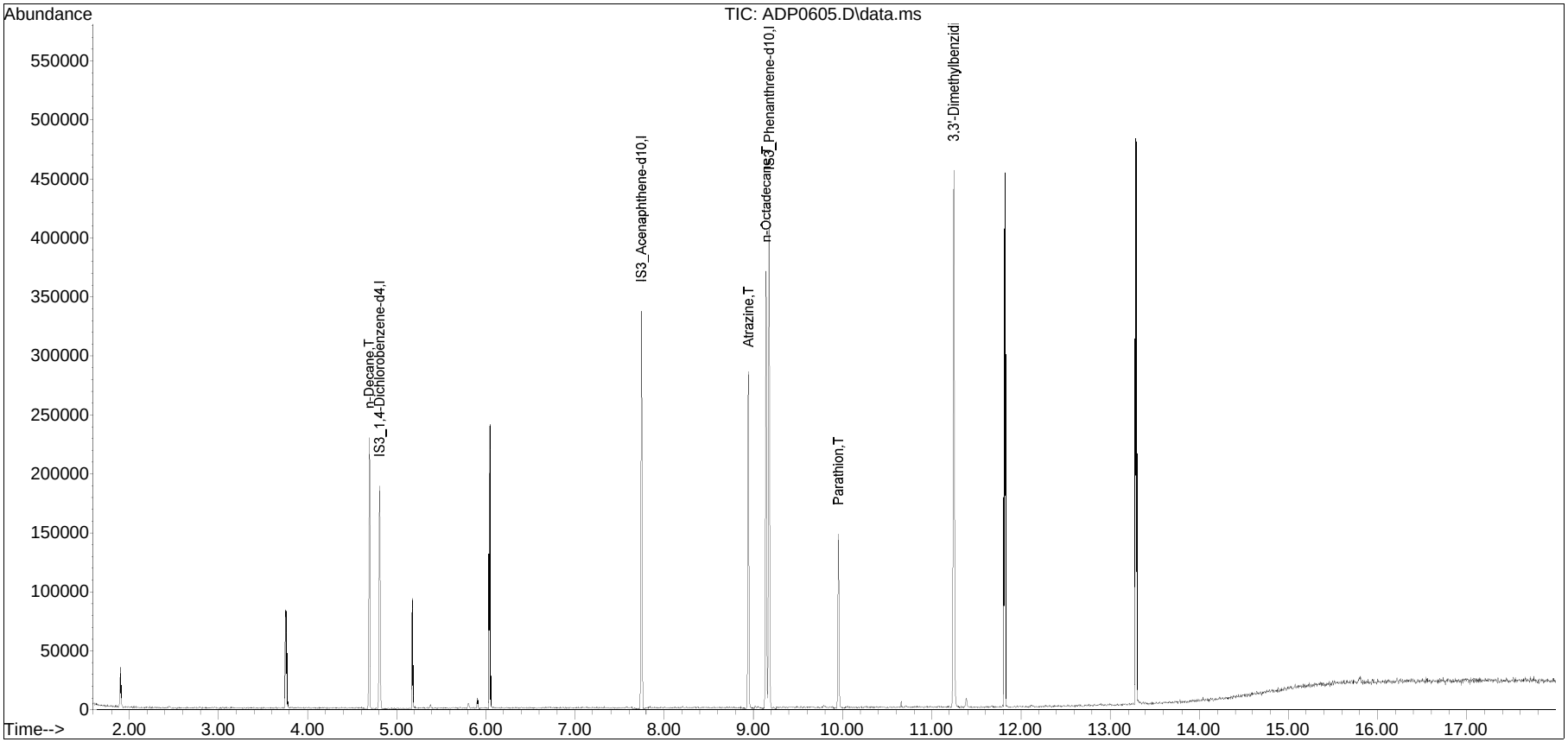
(#) = qualifier out of range (m) = manual integration (+) = signals summed

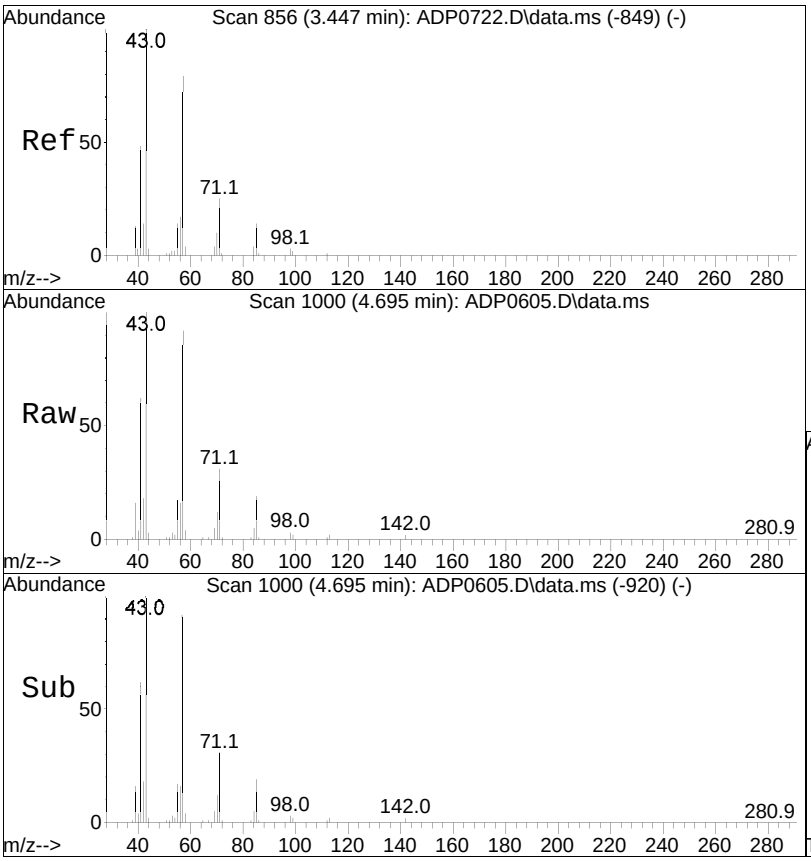
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : ADP0605.D
Acq On : 5 Jun 2024 9:42 am
Operator : Dakota:sz
Sample : wg1929981-5,32,,ADP 10751 gmr0518A
Misc : wg1929981,,ical21172
ALS Vial : 98 Sample Multiplier: 1

Quant Time: Jun 05 10:18:41 2024
Quant Method : I:\8270\Dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 10:19:02 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

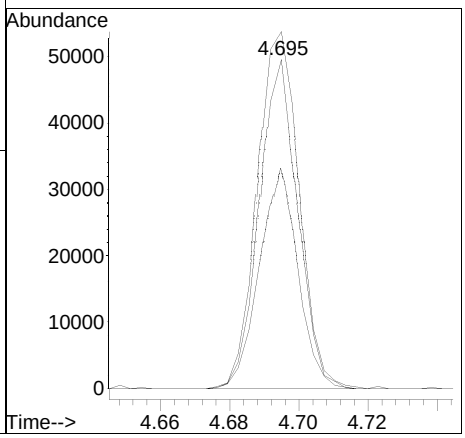


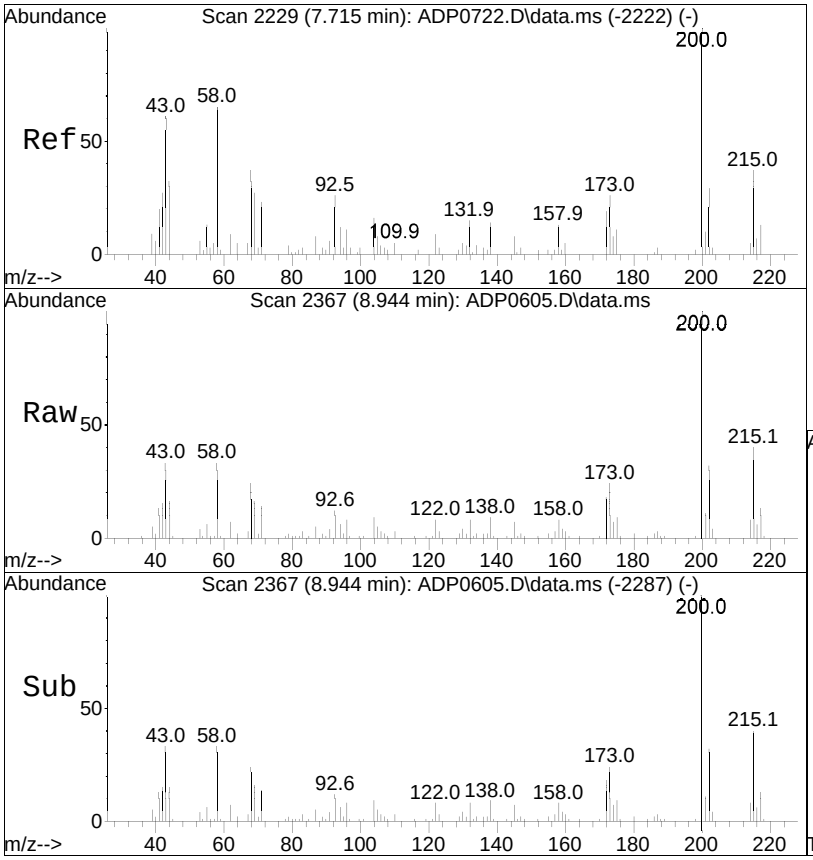


#33
n-Decane
Concen: 4.69 ug/ml
RT: 4.695 min Scan# 1000
Delta R.T. 0.000 min
Lab File: ADP0605.D
Acq: 5 Jun 2024 9:42 am

Tgt Ion: 57 Resp: 38159

Ion	Ratio	Lower	Upper
57	100		
43	117.9	0.2	0.2#
41	67.1	0.2	0.2#

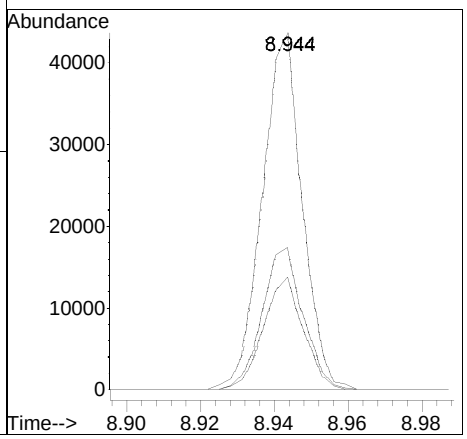


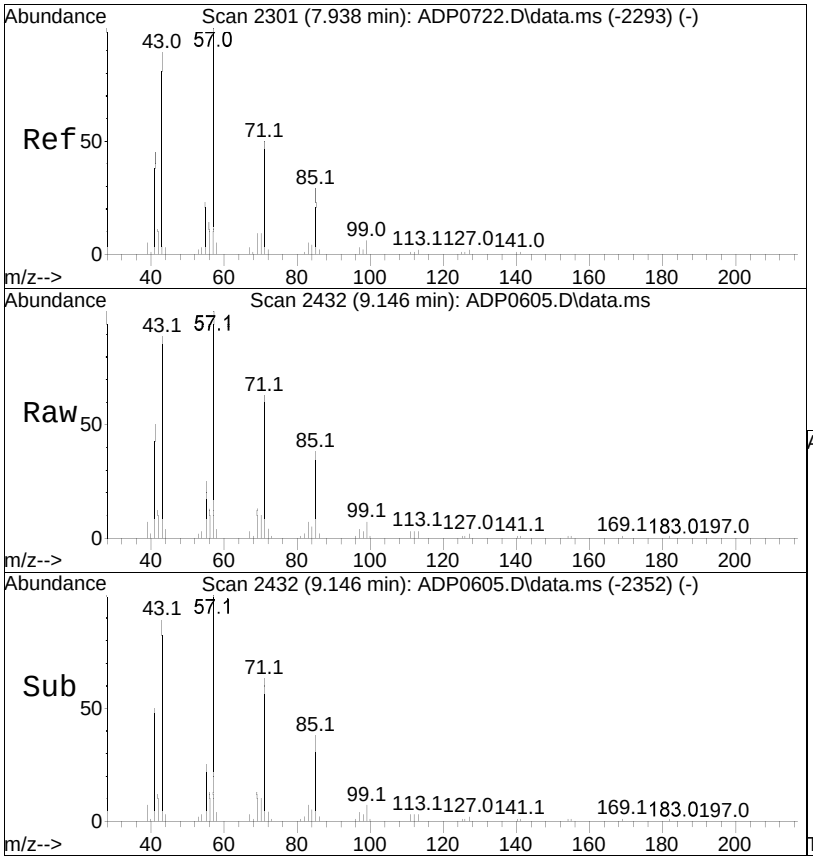


#86
Atrazine
Concen: 4.65 ug/ml
RT: 8.944 min Scan# 2367
Delta R.T. 0.000 min
Lab File: ADP0605.D
Acq: 5 Jun 2024 9:42 am

Tgt Ion:200 Resp: 32573

Ion	Ratio	Lower	Upper
200	100		
202	31.6	25.8	38.6
215	40.7	40.2	60.4

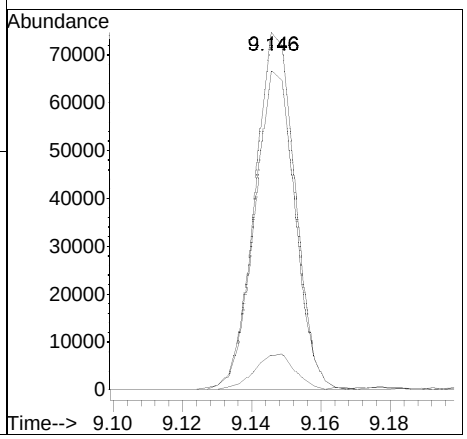


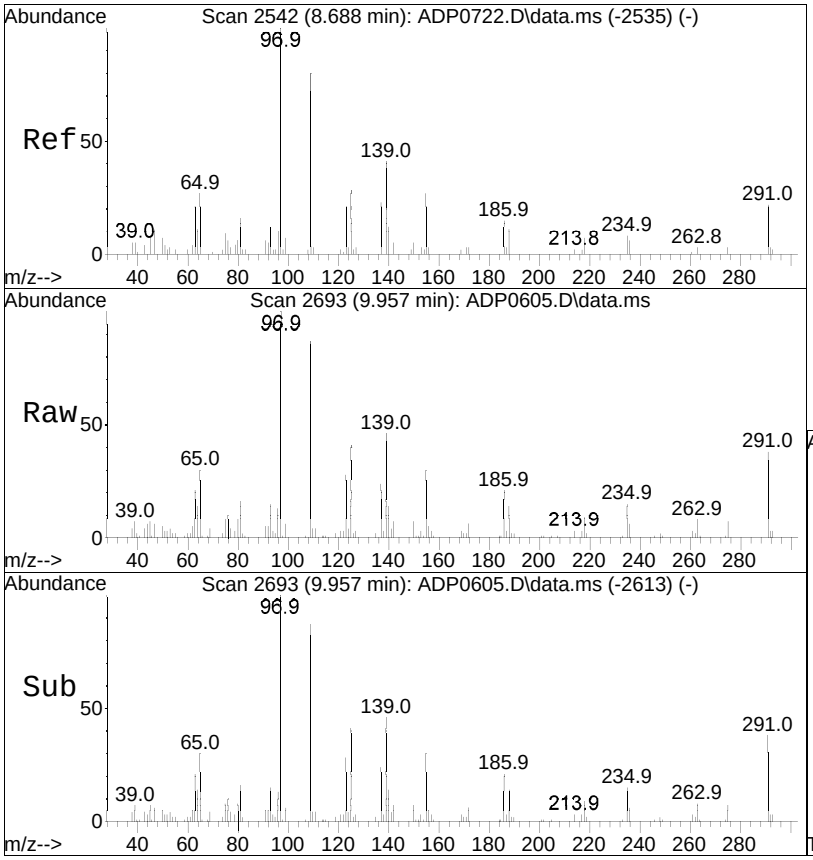


#100
n-Octadecane
Concen: 4.73 ug/ml
RT: 9.146 min Scan# 2432
Delta R.T. 0.000 min
Lab File: ADP0605.D
Acq: 5 Jun 2024 9:42 am

Tgt Ion: 57 Resp: 60154

Ion	Ratio	Lower	Upper
57	100		
43	89.7	9.0	13.6#
70	10.2	0.2	0.2#

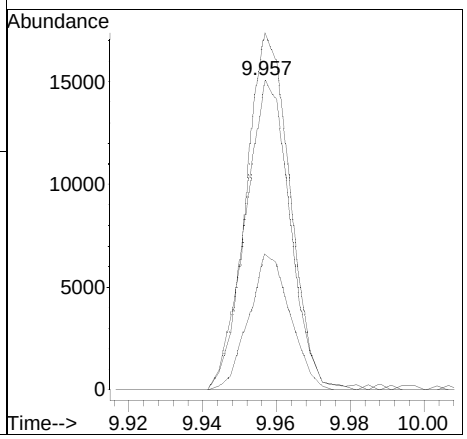


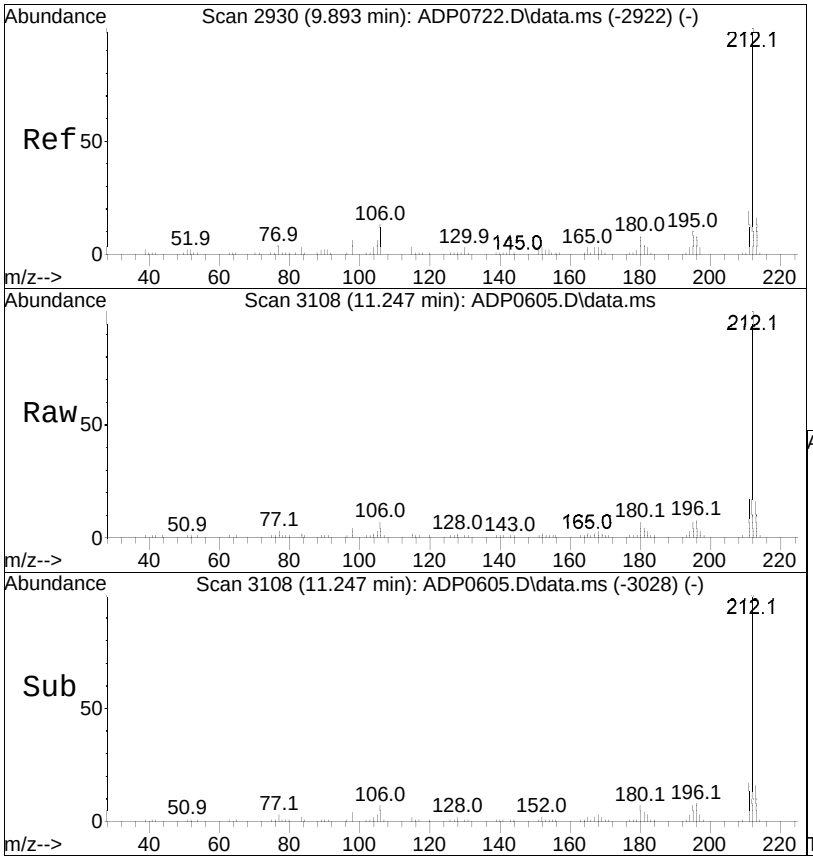


#101
Parathion
Concen: 4.19 ug/ml
RT: 9.957 min Scan# 2693
Delta R.T. 0.000 min
Lab File: ADP0605.D
Acq: 5 Jun 2024 9:42 am

Tgt Ion:109 Resp: 12549

Ion	Ratio	Lower	Upper
109	100		
97	114.1	87.4	131.2
291	41.1	34.2	51.2

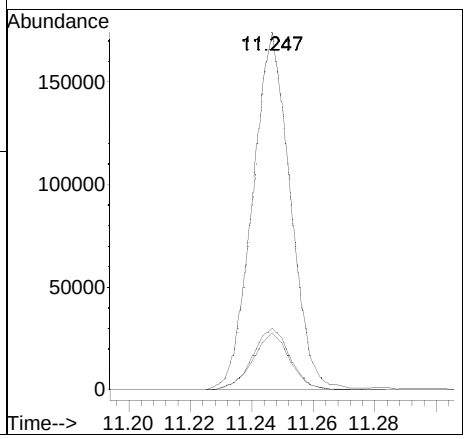




#102
3,3'-Dimethylbenzidine
Concen: 4.76 ug/ml
RT: 11.247 min Scan# 3108
Delta R.T. 0.000 min
Lab File: ADP0605.D
Acq: 5 Jun 2024 9:42 am

Tgt Ion:212 Resp: 146894

Ion	Ratio	Lower	Upper
212	100		
211	17.4	12.9	19.3
213	15.8	13.2	19.8



Manual Integration Report

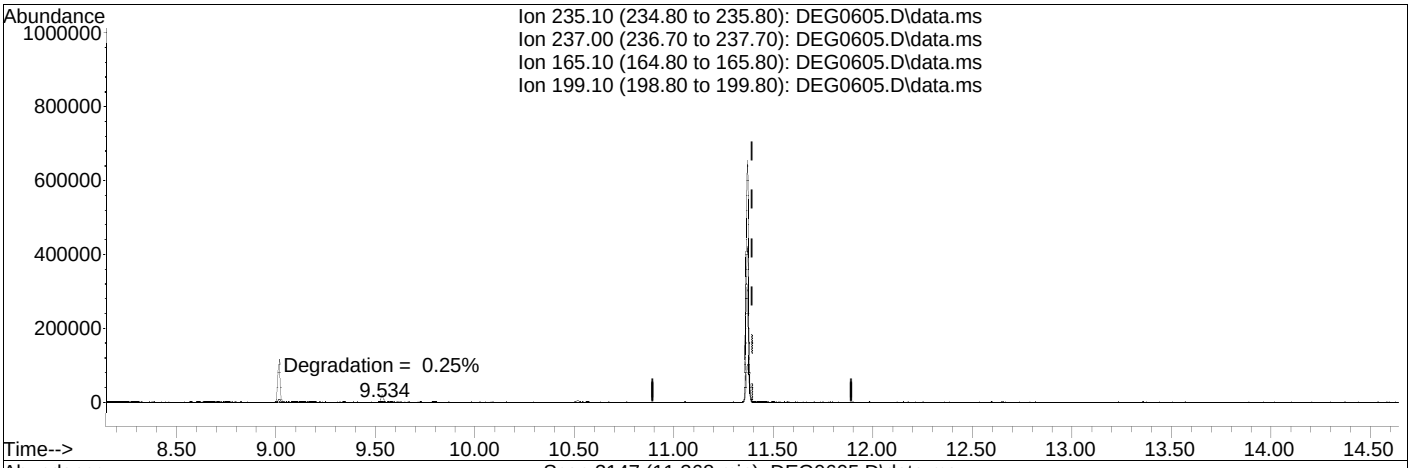
Data Path	: I:\8270\Dakota\240605RVT\	QMethod	: FS240531RVTDakota.m
Data File	: ADP0605.D	Operator	: Dakota:sz
Date Inj'd	: 6/5/2024 9:42 am	Instrument	: Dakota
Sample	: wg1929981-5,32,,ADP 10751	Quant Date	: 6/5/2024 10:19 am

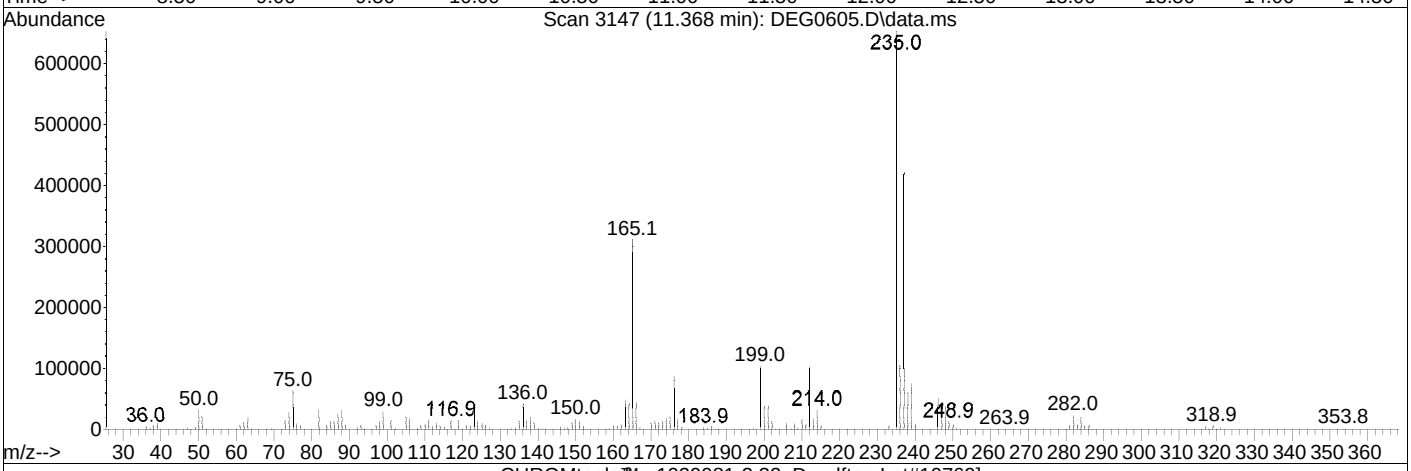
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240605RVT\
Data File : DEG0605.D
Acq On : 5 Jun 2024 8:35 am
Operator : Dakota:sz
Sample : wg1929981-2,32,,Degdftpp Lot#10769
Misc : wg1929981,,ical21172
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 05 09:11:59 2024
Quant Method : I:\8270\Dakota\240605RVT\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri May 31 12:01:17 2024
Response via : Initial Calibration





CHROMtools [wg1929981-2,32,,Degdftpp Lot#10769]

(6) DDT (T)

11.368min (-0.025) 96.07

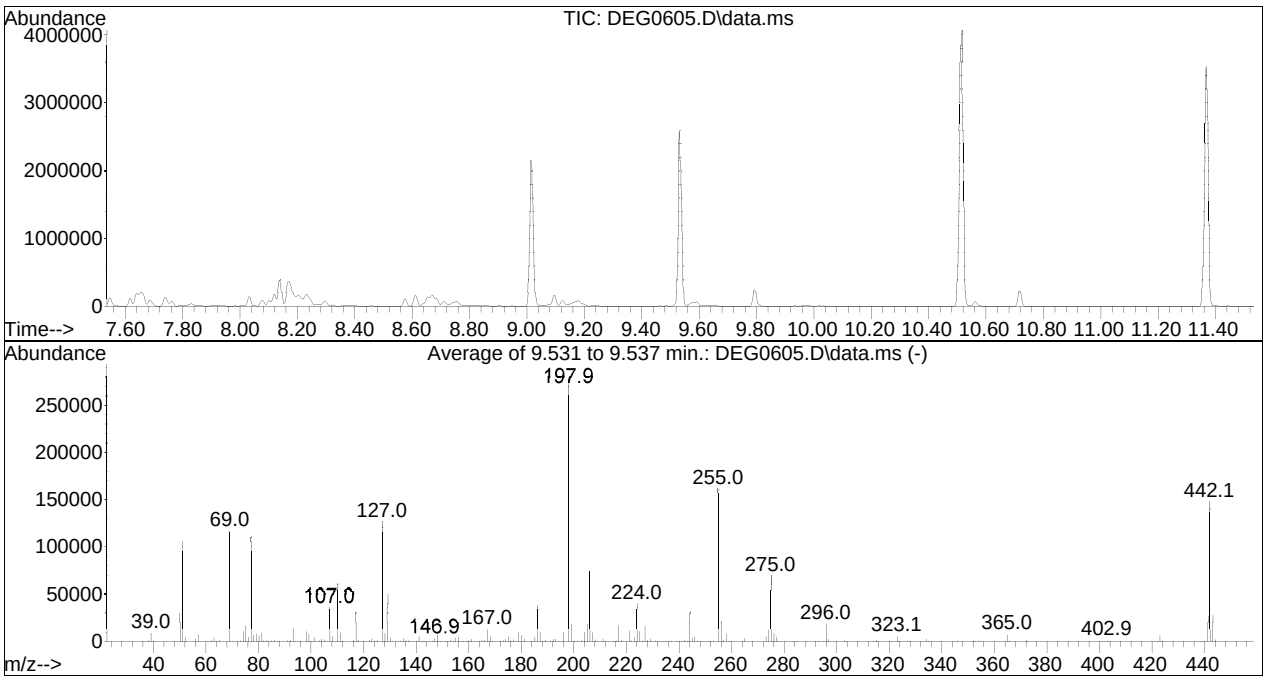
response 585602

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	66.20	64.62
165.10	47.40	47.57
199.10	13.90	15.45

Data Path : I:\8270\Dakota\240605RVT\
Data File : DEG0605.D
Acq On : 5 Jun 2024 8:35 am
Operator : Dakota:sz
Sample : wg1929981-1,32,,Degdftpp Lot#10769
Misc : wg1929981,,ical21172
ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Jun 06 14:14:42 2024



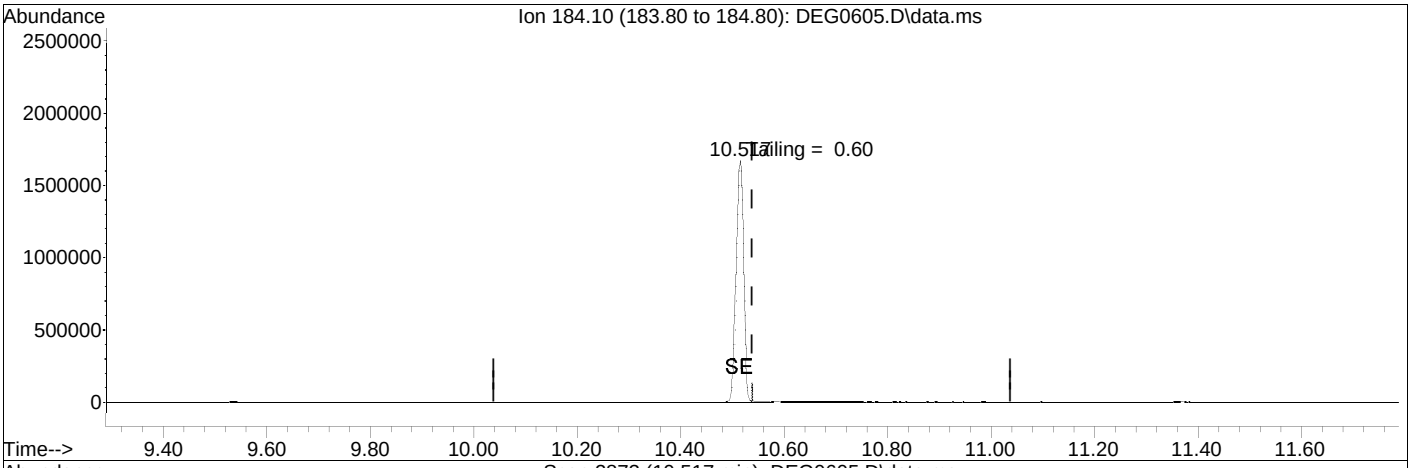
Spectrum Information: Average of 9.531 to 9.537 min.

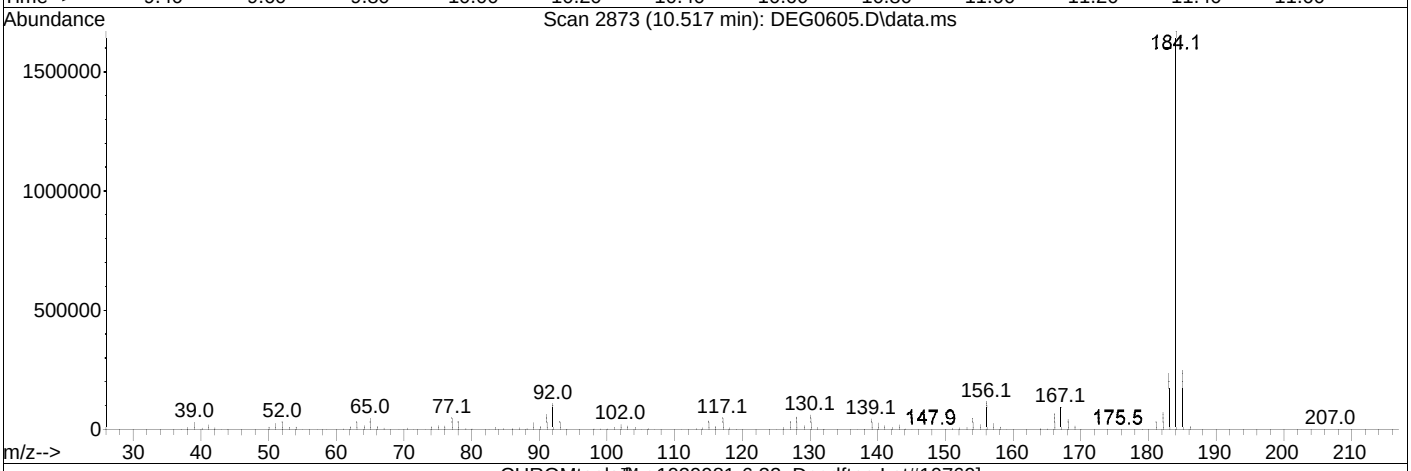
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	37.9	105872	PASS
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	116753	PASS
70	69	0.00	2	0.7	817	PASS
127	198	10	80	45.3	126501	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	279211	PASS
199	198	5	9	6.6	18375	PASS
275	198	10	60	24.9	69437	PASS
365	198	1	100	2.5	7095	PASS
441	442	0.01	24	18.0	26544	PASS
442	198	50	100	52.9	147739	PASS
443	442	15	24	18.7	27656	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240605RVT\
Data File : DEG0605.D
Acq On : 5 Jun 2024 8:35 am
Operator : Dakota:sz
Sample : wg1929981-6,32,,Degdftpp Lot#10769
Misc : wg1929981,,ical21172
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 05 09:11:59 2024
Quant Method : I:\8270\Dakota\240605RVT\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri May 31 12:01:17 2024
Response via : Initial Calibration





CHROMtools [wg1929981-6,32,,Degdftpp Lot#10769]

(3) Benzidine (T)

10.517min (-0.021) 155.83

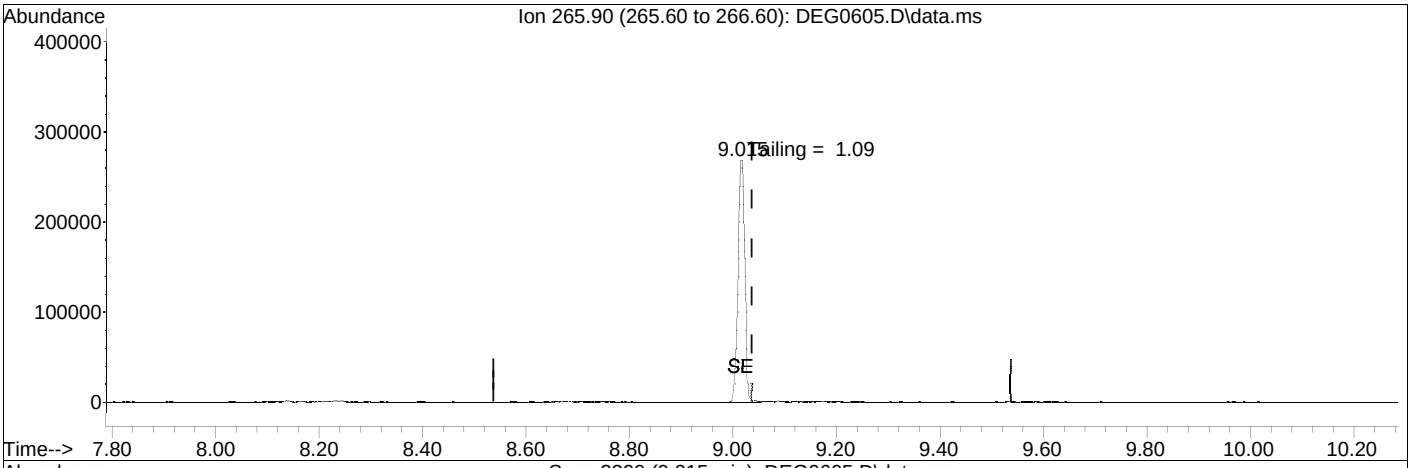
response 1586309

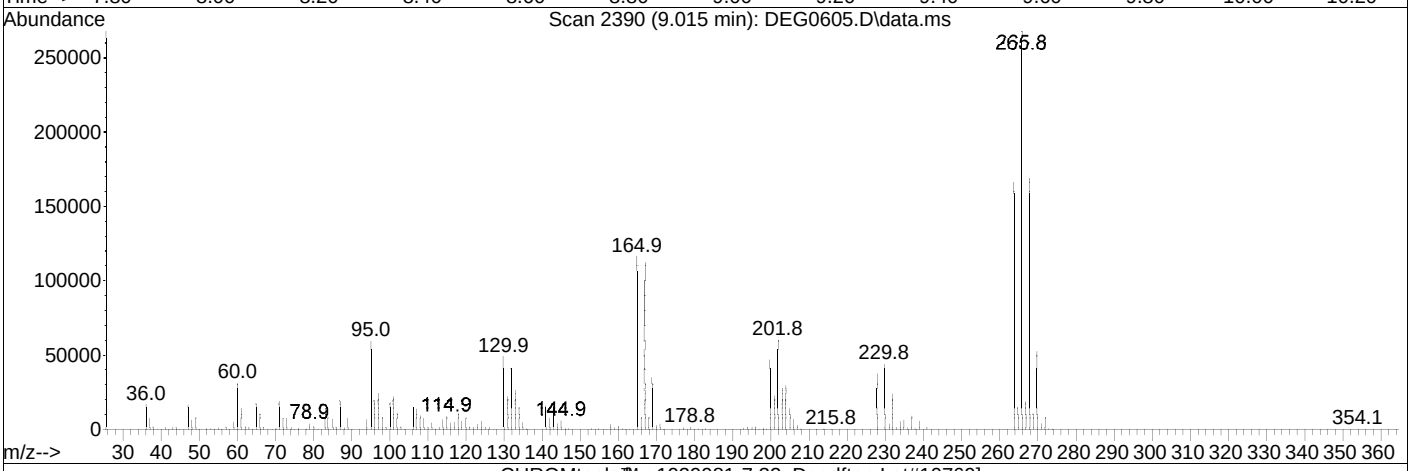
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240605RVT\
Data File : DEG0605.D
Acq On : 5 Jun 2024 8:35 am
Operator : Dakota:sz
Sample : wg1929981-7,32,,Degdftpp Lot#10769
Misc : wg1929981,,ical21172
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 05 09:11:59 2024
Quant Method : I:\8270\Dakota\240605RVT\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri May 31 12:01:17 2024
Response via : Initial Calibration





CHROMtools [wg1929981-7,32,,Degdftpp Lot#10769]

(1) Pentachlorophenol (T)

9.015min (-0.022) 107.42

response 225621

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: SV107	**Calibration Date**	: 06/04/24 22:02		
Lab File ID	: ABN0604	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1929711-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	101	0
n-Nitrosodimethylamine	0.704	0.725	-	-3	20	106	0
Pyridine	1.199	1.133	-	5.5	20	99	0
2-Fluorophenol	1.069	1.072	-	-0.3	20	105	0
Aniline	1.713	1.541	-	10	20	95	0
2-Chlorophenol	1.178	1.172	-	0.5	20	105	0
Phenol-d6	1.322	1.361	-	-3	20	109	0
Phenol	1.438	1.426	-	0.8	20	106	0
Bis(2-chloroethyl)ether	1.185	1.187	-	-0.2	20	110	0
1,3-Dichlorobenzene	1.452	1.43	-	1.5	20	106	0
1,4-Dichlorobenzene	1.478	1.468	-	0.7	20	107	0
1,2-Dichlorobenzene	1.426	1.403	-	1.6	20	106	0
Benzyl alcohol	1	0.953	-	4.7	20	102	0
Bis(2-chloroisopropyl)ethe	1.623	1.645	-	-1.4	20	111	0
2-Methylphenol	1.031	1.018	-	1.3	20	104	0
Hexachloroethane	0.545	0.548	-	-0.6	20	107	0
n-Nitrosodi-n-propylamine	0.879	0.855	-	2.7	20	104	0
3-Methylphenol/4-Methylphe	1.084	1.101	-	-1.6	20	103	0
Nitrobenzene-d5	1.165	1.203	-	-3.3	20	105	0
Nitrobenzene	1.197	1.227	-	-2.5	20	105	0
Isophorone	2.31	2.234	-	3.3	20	101	0
2-Nitrophenol	0.533	0.531	-	0.4	20	108	0
2,4-Dimethylphenol	1.088	0.911	-	16.3	20	87	0
Bis(2-chloroethoxy)methane	1.508	1.528	-	-1.3	20	110	0
2,4-Dichlorophenol	1.094	1.102	-	-0.7	20	102	0
1,2,4-Trichlorobenzene	1.318	1.33	-	-0.9	20	110	0
IS1_Naphthalene-d8	1	1	-	0	20	104	0
Naphthalene	0.996	0.967	-	2.9	20	109	0
Benzoic Acid	5	4.665	-	6.7	20	101	0
4-Chloroaniline	0.126	0.122	-	3.2	20	106	0
Hexachlorobutadiene	0.211	0.202	-	4.3	20	107	0
p-Chloro-m-cresol	0.272	0.27	-	0.7	20	102	0
2-Methylnaphthalene	0.688	0.663	-	3.6	20	105	0
1-Methylnaphthalene	0.235	0.228	-	3	20	108	0
Hexachlorocyclopentadiene	0.205	0.178	-	13.2	20	94	0
2,4,6-Trichlorophenol	0.237	0.233	-	1.7	20	100	0
2,4,5-Trichlorophenol	0.251	0.253	-	-0.8	20	103	0
2-Fluorobiphenyl	0.866	0.824	-	4.8	20	104	0
2-Chloronaphthalene	0.715	0.681	-	4.8	20	105	0
2-Nitroaniline	0.173	0.171	-	1.2	20	102	0
1,4-Dinitrobenzene	0.087	0.08	-	8	20	109	0
1,3-Dinitrobenzene	0.109	0.099	-	9.2	20	104	0
Dimethyl phthalate	0.839	0.804	-	4.2	20	103	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: SV107	**Calibration Date**	: 06/04/24 22:02		
Lab File ID	: ABN0604	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1929711-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.079	1.083	-	-0.4	20	107	0
2,6-Dinitrotoluene	0.153	0.159	-	-3.9	20	104	0
1,2-Dinitrobenzene	0.068	0.07	-	-2.9	20	104	0
IS1_Acenaphthene-d10	1	1	-	0	20	99	0
3-Nitroaniline	0.259	0.269	-	-3.9	20	104	0
Acenaphthene	1.081	1.002	-	7.3	20	102	0
2,4-Dinitrophenol	5	4.378	-	12.4	20	103	0
Dibenzofuran	1.757	1.673	-	4.8	20	103	0
2,4-Dinitrotoluene	5	4.494	-	10.1	20	105	0
4-Nitrophenol	0.221	0.214	-	3.2	20	102	0
2,3,5,6-Tetrachlorophenol	0.318	0.337	-	-6	20	104	0
2,3,4,6-Tetrachlorophenol	0.314	0.33	-	-5.1	20	102	0
Diethyl phthalate	1.301	1.247	-	4.2	20	103	0
Fluorene	1.328	1.276	-	3.9	20	103	0
4-Chlorophenyl phenyl ethe	0.672	0.652	-	3	20	105	0
4-Nitroaniline	0.262	0.266	-	-1.5	20	105	0
4,6-Dinitro-o-cresol	5	4.135	-	17.3	20	105	0
NDPA/DPA	1.131	1.09	-	3.6	20	102	0
Azobenzene	1.259	1.266	-	-0.6	20	105	0
2,4,6-Tribromophenol	0.171	0.174	-	-1.8	20	98	0
4-Bromophenyl phenyl ether	0.376	0.354	-	5.9	20	102	0
Hexachlorobenzene	0.431	0.389	-	9.7	20	99	0
Pentachlorophenol	0.252	0.232	-	7.9	20	97	0
IS1_Phenanthrene-d10	1	1	-	0	20	97	0
Phenanthrene	1.038	0.995	-	4.1	20	102	0
Anthracene	1.03	0.99	-	3.9	20	102	0
Carbazole	0.928	0.893	-	3.8	20	99	0
Di-n-butylphthalate	1.088	1.061	-	2.5	20	99	0
Fluoranthene	1.186	1.116	-	5.9	20	99	0
Benzidine	0.721	0.658	-	8.7	20	95	0
Pyrene	1.269	1.205	-	5	20	101	0
4-Terphenyl-d14	0.875	0.847	-	3.2	20	103	0
Butyl benzyl phthalate	5	4.109	-	17.8	20	96	0
IS1_Chrysene-d12	1	1	-	0	20	97	0
Benzo(a)anthracene	1.335	1.279	-	4.2	20	102	0
3,3'-Dichlorobenzidine	0.43	0.421	-	2.1	20	95	0
Chrysene	1.276	1.21	-	5.2	20	101	0
Bis(2-ethylhexyl)phthalate	5	4.313	-	13.7	20	97	0
Di-n-octylphthalate	5	4.155	-	16.9	20	97	0
Benzo(b)fluoranthene	1.178	1.104	-	6.3	20	97	0
Benzo(k)fluoranthene	1.154	1.184	-	-2.6	20	104	0
Benzo(a)pyrene	1.025	1.019	-	0.6	20	101	0
IS1_Perylene-d12	1	1	-	0	20	94	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: SV107	**Calibration Date**	: 06/04/24 22:02		
Lab File ID	: ABN0604	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1929711-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.952	0.993	-	-4.3	20	105	0
Dibenzo(a,h)anthracene	0.953	1.04	-	-9.1	20	102	0
Benzo(ghi)perylene	0.928	0.964	-	-3.9	20	103	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: SV107	**Calibration Date**	: 06/04/24 22:27		
Lab File ID	: AP90604	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1929711-4	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	113	0
Benzaldehyde	1.024	1.034	-	-1	20	122	0
Acetophenone	1.77	1.817	-	-2.7	20	121	0
m-Toluidine	1.599	1.808	-	-13.1	20	125	0
2-Chloroaniline	1.546	1.612	-	-4.3	20	121	0
IS2_Naphthalene-d8	1	1	-	0	20	114	0
a-Terpineol	0.276	0.285	-	-3.3	20	126	0
3-Chloroaniline	0.147	0.149	-	-1.4	20	122	0
2,6-Dichlorophenol	0.29	0.307	-	-5.9	20	125	0
1-chloro-2-nitrobenzene	0.121	0.135	-	-11.6	20	139	0
Caprolactam	0.149	0.15	-	-0.7	20	121	0
1,2,4,5-Tetrachlorobenzene	0.402	0.409	-	-1.7	20	127	0
Biphenyl	0.929	0.937	-	-0.9	20	125	0
IS2_Acenaphthene-d10	1	1	-	0	20	120	0
Dichloran	5	4.955	-	0.9	20	141	0
Pentachloronitrobenzene	5	5.149	-	-3	20	138	0
IS2_Phenanthrene-d10	1	1	-	0	20	118	0
Diphenamid	0.445	0.452	-	-1.6	20	124	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2430219	
Project Name	: HUNTINGTON READY MIXED		**Project Number**	: 20116	
Instrument ID	: SV107		**Calibration Date**	: 06/04/24 22:52	
Lab File ID	: ADP0604		**Init. Calib. Date(s)**	: 06/02/24	06/03/24
Sample No	: WG1929711-5		**Init. Calib. Times**	: 19:34	07:50
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	108	0
n-Decane	1.447	1.273	-	12	20	103	0
IS3_Acenaphthene-d10	1	1	-	0	20	110	0
Atrazine	0.347	0.33	-	4.9	20	102	0
IS3_Phenanthrene-d10	1	1	-	0	20	111	0
n-Octadecane	0.393	0.366	-	6.9	20	102	0
Parathion	5	4.065	-	18.7	20	98	0
3,3'-Dimethylbenzidine	0.696	0.563	-	19.1	20	93	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/05/24 08:58		
Lab File ID	: ABN0605	**Init. Calib. Date(s)**	: 05/31/24	06/01/24	
Sample No	: WG1929981-3	**Init. Calib. Times**	: 18:03	05:05	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	85	0
n-Nitrosodimethylamine	0.643	0.661	-	-2.8	20	90	0
Pyridine	1.051	1.024	-	2.6	20	83	0
2-Fluorophenol	1.003	0.977	-	2.6	20	87	0
Aniline	1.625	1.501	-	7.6	20	80	0
2-Chlorophenol	1.121	1.142	-	-1.9	20	85	0
Phenol-d6	1.244	1.271	-	-2.2	20	87	0
Phenol	1.393	1.426	-	-2.4	20	86	0
Bis(2-chloroethyl)ether	0.948	0.962	-	-1.5	20	85	0
1,3-Dichlorobenzene	1.422	1.453	-	-2.2	20	89	0
1,4-Dichlorobenzene	1.411	1.473	-	-4.4	20	91	0
1,2-Dichlorobenzene	1.364	1.399	-	-2.6	20	86	0
Benzyl alcohol	0.915	0.878	-	4	20	81	0
Bis(2-chloroisopropyl)ethe	1.578	1.615	-	-2.3	20	90	0
2-Methylphenol	0.937	0.954	-	-1.8	20	85	0
Hexachloroethane	0.505	0.496	-	1.8	20	85	0
n-Nitrosodi-n-propylamine	0.843	0.815	-	3.3	20	83	0
3-Methylphenol/4-Methylphe	1.022	1.004	-	1.8	20	82	0
Nitrobenzene-d5	1.102	1.008	-	8.5	20	79	0
Nitrobenzene	1.084	1.064	-	1.8	20	84	0
Isophorone	2.1	2.18	-	-3.8	20	88	0
2-Nitrophenol	0.495	0.442	-	10.7	20	76	0
2,4-Dimethylphenol	0.972	0.817	-	15.9	20	69	0
Bis(2-chloroethoxy)methane	1.258	1.275	-	-1.4	20	83	0
2,4-Dichlorophenol	1.126	1.106	-	1.8	20	82	0
1,2,4-Trichlorobenzene	1.352	1.446	-	-7	20	89	0
IS1_Naphthalene-d8	1	1	-	0	20	83	0
Naphthalene	0.964	0.956	-	0.8	20	87	0
Benzoic Acid	5	3.863	-	22.7*	20	72	0
4-Chloroaniline	0.118	0.116	-	1.7	20	90	0
Hexachlorobutadiene	0.228	0.226	-	0.9	20	85	0
p-Chloro-m-cresol	0.261	0.252	-	3.4	20	84	0
2-Methylnaphthalene	0.69	0.674	-	2.3	20	86	0
1-Methylnaphthalene	0.23	0.223	-	3	20	85	0
Hexachlorocyclopentadiene	0.241	0.19	-	21.2*	20	69	0
2,4,6-Trichlorophenol	0.267	0.243	-	9	20	78	0
2,4,5-Trichlorophenol	0.29	0.272	-	6.2	20	80	0
2-Fluorobiphenyl	0.92	0.912	-	0.9	20	90	0
2-Chloronaphthalene	0.759	0.759	-	0	20	87	0
2-Nitroaniline	0.179	0.143	-	20.1*	20	70	0
1,4-Dinitrobenzene	0.08	0.071	-	11.3	20	78	0
1,3-Dinitrobenzene	0.089	0.078	-	12.4	20	74	0
Dimethyl phthalate	0.896	0.861	-	3.9	20	84	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/05/24 08:58		
Lab File ID	: ABN0605	**Init. Calib. Date(s)**	: 05/31/24	06/01/24	
Sample No	: WG1929981-3	**Init. Calib. Times**	: 18:03	05:05	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.13	1.153	-	-2	20	91	0
2,6-Dinitrotoluene	0.157	0.136	-	13.4	20	77	0
1,2-Dinitrobenzene	0.055	0.049	-	10.9	20	76	0
IS1_Acenaphthene-d10	1	1	-	0	20	79	0
3-Nitroaniline	0.236	0.226	-	4.2	20	75	0
Acenaphthene	0.993	0.982	-	1.1	20	85	0
2,4-Dinitrophenol	5	4.622	-	7.6	20	83	0
Dibenzofuran	1.665	1.698	-	-2	20	86	0
2,4-Dinitrotoluene	0.299	0.285	-	4.7	20	75	0
4-Nitrophenol	0.205	0.2	-	2.4	20	75	0
2,3,5,6-Tetrachlorophenol	0.369	0.342	-	7.3	20	76	0
2,3,4,6-Tetrachlorophenol	0.355	0.359	-	-1.1	20	83	0
Diethyl phthalate	1.362	1.32	-	3.1	20	83	0
Fluorene	1.323	1.323	-	0	20	85	0
4-Chlorophenyl phenyl ethe	0.702	0.707	-	-0.7	20	88	0
4-Nitroaniline	0.252	0.248	-	1.6	20	75	0
4,6-Dinitro-o-cresol	5	4.293	-	14.1	20	75	0
NDPA/DPA	1.141	1.165	-	-2.1	20	85	0
Azobenzene	1.142	1.14	-	0.2	20	86	0
2,4,6-Tribromophenol	0.187	0.177	-	5.3	20	75	0
4-Bromophenyl phenyl ether	0.436	0.425	-	2.5	20	83	0
Hexachlorobenzene	0.502	0.485	-	3.4	20	86	0
Pentachlorophenol	5	4.255	-	14.9	20	73	0
IS1_Phenanthrene-d10	1	1	-	0	20	81	0
Phenanthrene	1.003	0.995	-	0.8	20	87	0
Anthracene	0.98	1.006	-	-2.7	20	88	0
Carbazole	0.949	0.933	-	1.7	20	85	0
Di-n-butylphthalate	1.032	0.971	-	5.9	20	80	0
Fluoranthene	1.28	1.246	-	2.7	20	87	0
Benzidine	0.733	0.782	-	-6.7	20	83	0
Pyrene	1.344	1.346	-	-0.1	20	89	0
4-Terphenyl-d14	1.001	0.987	-	1.4	20	86	0
Butyl benzyl phthalate	0.473	0.424	-	10.4	20	77	0
IS1_Chrysene-d12	1	1	-	0	20	80	0
Benzo(a)anthracene	1.378	1.314	-	4.6	20	88	0
3,3'-Dichlorobenzidine	0.473	0.486	-	-2.7	20	86	0
Chrysene	1.263	1.248	-	1.2	20	88	0
Bis(2-ethylhexyl)phthalate	0.666	0.621	-	6.8	20	78	0
Di-n-octylphthalate	1.136	1.05	-	7.6	20	78	0
Benzo(b)fluoranthene	1.418	1.363	-	3.9	20	86	0
Benzo(k)fluoranthene	1.357	1.333	-	1.8	20	92	0
Benzo(a)pyrene	1.262	1.259	-	0.2	20	88	0
IS1_Perylene-d12	1	1	-	0	20	81	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/05/24 08:58		
Lab File ID	: ABN0605	**Init. Calib. Date(s)**	: 05/31/24	06/01/24	
Sample No	: WG1929981-3	**Init. Calib. Times**	: 18:03	05:05	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.186	1.18	-	0.5	20	83	0
Dibenzo(a,h)anthracene	1.089	1.108	-	-1.7	20	89	0
Benzo(ghi)perylene	1.087	1.086	-	0.1	20	88	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/05/24 09:20		
Lab File ID	: AP90605	**Init. Calib. Date(s)**	: 05/31/24	06/01/24	
Sample No	: WG1929981-4	**Init. Calib. Times**	: 18:03	05:05	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	80	0
Benzaldehyde	0.959	0.984	-	-2.6	20	93	0
Acetophenone	1.593	1.704	-	-7	20	89	0
m-Toluidine	1.457	1.598	-	-9.7	20	89	0
2-Chloroaniline	1.441	1.534	-	-6.5	20	88	0
IS2_Naphthalene-d8	1	1	-	0	20	82	0
a-Terpineol	0.248	0.26	-	-4.8	20	92	0
3-Chloroaniline	0.136	0.146	-	-7.4	20	95	0
2,6-Dichlorophenol	0.319	0.324	-	-1.6	20	86	0
1-chloro-2-nitrobenzene	0.121	0.117	-	3.3	20	85	0
Caprolactam	0.129	0.131	-	-1.6	20	87	0
1,2,4,5-Tetrachlorobenzene	0.449	0.48	-	-6.9	20	93	0
Biphenyl	0.931	0.957	-	-2.8	20	91	0
IS2_Acenaphthene-d10	1	1	-	0	20	82	0
Dichloran	5	4.173	-	16.5	20	84	0
Pentachloronitrobenzene	0.16	0.14	-	12.5	20	71	0
IS2_Phenanthrene-d10	1	1	-	0	20	84	0
Diphenamid	0.471	0.472	-	-0.2	20	87	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/05/24 09:42		
Lab File ID	: ADP0605	**Init. Calib. Date(s)**	: 05/31/24	06/01/24	
Sample No	: WG1929981-5	**Init. Calib. Times**	: 18:03	05:05	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	88	0
n-Decane	1.164	1.091	-	6.3	20	88	0
IS3_Acenaphthene-d10	1	1	-	0	20	87	0
Atrazine	0.423	0.394	-	6.9	20	88	0
IS3_Phenanthrene-d10	1	1	-	0	20	88	0
n-Octadecane	0.325	0.308	-	5.2	20	88	0
Parathion	5	4.188	-	16.2	20	76	0
3,3'-Dimethylbenzidine	5	4.756	-	4.9	20	90	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/06/24 13:04		
Lab File ID	: ABN0606	**Init. Calib. Date(s)**	: 05/31/24	06/01/24	
Sample No	: WG1930740-3	**Init. Calib. Times**	: 18:03	05:05	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	94	0
n-Nitrosodimethylamine	0.643	0.658	-	-2.3	20	100	0
Pyridine	1.051	0.977	-	7	20	88	0
2-Fluorophenol	1.003	0.973	-	3	20	96	0
Aniline	1.625	1.512	-	7	20	89	0
2-Chlorophenol	1.121	1.137	-	-1.4	20	94	0
Phenol-d6	1.244	1.288	-	-3.5	20	98	0
Phenol	1.393	1.434	-	-2.9	20	96	0
Bis(2-chloroethyl)ether	0.948	0.949	-	-0.1	20	93	0
1,3-Dichlorobenzene	1.422	1.468	-	-3.2	20	100	0
1,4-Dichlorobenzene	1.411	1.475	-	-4.5	20	101	0
1,2-Dichlorobenzene	1.364	1.421	-	-4.2	20	97	0
Benzyl alcohol	0.915	0.919	-	-0.4	20	93	0
Bis(2-chloroisopropyl)ethe	1.578	1.636	-	-3.7	20	101	0
2-Methylphenol	0.937	0.955	-	-1.9	20	94	0
Hexachloroethane	0.505	0.509	-	-0.8	20	97	0
n-Nitrosodi-n-propylamine	0.843	0.821	-	2.6	20	93	0
3-Methylphenol/4-Methylphe	1.022	1.027	-	-0.5	20	93	0
Nitrobenzene-d5	1.102	1.209	-	-9.7	20	105	0
Nitrobenzene	1.084	1.195	-	-10.2	20	104	0
Isophorone	2.1	2.245	-	-6.9	20	100	0
2-Nitrophenol	0.495	0.553	-	-11.7	20	106	0
2,4-Dimethylphenol	0.972	0.861	-	11.4	20	80	0
Bis(2-chloroethoxy)methane	1.258	1.347	-	-7.1	20	98	0
2,4-Dichlorophenol	1.126	1.162	-	-3.2	20	95	0
1,2,4-Trichlorobenzene	1.352	1.473	-	-8.9	20	101	0
IS1_Naphthalene-d8	1	1	-	0	20	95	0
Naphthalene	0.964	0.944	-	2.1	20	99	0
Benzoic Acid	5	5.067	-	-1.3	20	119	0
4-Chloroaniline	0.118	0.113	-	4.2	20	101	0
Hexachlorobutadiene	0.228	0.233	-	-2.2	20	101	0
p-Chloro-m-cresol	0.261	0.26	-	0.4	20	99	0
2-Methylnaphthalene	0.69	0.681	-	1.3	20	99	0
1-Methylnaphthalene	0.23	0.231	-	-0.4	20	101	0
Hexachlorocyclopentadiene	0.241	0.216	-	10.4	20	90	0
2,4,6-Trichlorophenol	0.267	0.285	-	-6.7	20	105	0
2,4,5-Trichlorophenol	0.29	0.308	-	-6.2	20	104	0
2-Fluorobiphenyl	0.92	0.916	-	0.4	20	103	0
2-Chloronaphthalene	0.759	0.784	-	-3.3	20	103	0
2-Nitroaniline	0.179	0.2	-	-11.7	20	112	0
1,4-Dinitrobenzene	0.08	0.105	-	-31.2*	20	132	0
1,3-Dinitrobenzene	0.089	0.118	-	-32.6*	20	127	0
Dimethyl phthalate	0.896	0.978	-	-9.2	20	109	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/06/24 13:04		
Lab File ID	: ABN0606	**Init. Calib. Date(s)**	: 05/31/24	06/01/24	
Sample No	: WG1930740-3	**Init. Calib. Times**	: 18:03	05:05	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.13	1.218	-	-7.8	20	110	0
2,6-Dinitrotoluene	0.157	0.191	-	-21.7*	20	124	0
1,2-Dinitrobenzene	0.055	0.074	-	-34.5*	20	132	0
IS1_Acenaphthene-d10	1	1	-	0	20	95	0
3-Nitroaniline	0.236	0.281	-	-19.1	20	112	0
Acenaphthene	0.993	0.988	-	0.5	20	103	0
2,4-Dinitrophenol	5	6.45	-	-29*	20	145	0
Dibenzofuran	1.665	1.747	-	-4.9	20	107	0
2,4-Dinitrotoluene	0.299	0.396	-	-32.4*	20	124	0
4-Nitrophenol	0.205	0.229	-	-11.7	20	103	0
2,3,5,6-Tetrachlorophenol	0.369	0.409	-	-10.8	20	109	0
2,3,4,6-Tetrachlorophenol	0.355	0.404	-	-13.8	20	112	0
Diethyl phthalate	1.362	1.394	-	-2.3	20	105	0
Fluorene	1.323	1.373	-	-3.8	20	106	0
4-Chlorophenyl phenyl ethe	0.702	0.715	-	-1.9	20	106	0
4-Nitroaniline	0.252	0.3	-	-19	20	109	0
4,6-Dinitro-o-cresol	5	6.668	-	-33.4*	20	146	0
NDPA/DPA	1.141	1.199	-	-5.1	20	105	0
Azobenzene	1.142	1.208	-	-5.8	20	109	0
2,4,6-Tribromophenol	0.187	0.22	-	-17.6	20	112	0
4-Bromophenyl phenyl ether	0.436	0.453	-	-3.9	20	106	0
Hexachlorobenzene	0.502	0.522	-	-4	20	110	0
Pentachlorophenol	5	5.462	-	-9.2	20	114	0
IS1_Phenanthrene-d10	1	1	-	0	20	102	0
Phenanthrene	1.003	0.985	-	1.8	20	108	0
Anthracene	0.98	0.983	-	-0.3	20	108	0
Carbazole	0.949	0.929	-	2.1	20	107	0
Di-n-butylphthalate	1.032	1.034	-	-0.2	20	107	0
Fluoranthene	1.28	1.231	-	3.8	20	108	0
Benzidine	0.733	0.765	-	-4.4	20	103	0
Pyrene	1.344	1.33	-	1	20	110	0
4-Terphenyl-d14	1.001	0.998	-	0.3	20	110	0
Butyl benzyl phthalate	0.473	0.463	-	2.1	20	106	0
IS1_Chrysene-d12	1	1	-	0	20	99	0
Benzo(a)anthracene	1.378	1.308	-	5.1	20	110	0
3,3'-Dichlorobenzidine	0.473	0.494	-	-4.4	20	109	0
Chrysene	1.263	1.224	-	3.1	20	108	0
Bis(2-ethylhexyl)phthalate	0.666	0.682	-	-2.4	20	108	0
Di-n-octylphthalate	1.136	1.168	-	-2.8	20	108	0
Benzo(b)fluoranthene	1.418	1.332	-	6.1	20	106	0
Benzo(k)fluoranthene	1.357	1.32	-	2.7	20	113	0
Benzo(a)pyrene	1.262	1.24	-	1.7	20	108	0
IS1_Perylene-d12	1	1	-	0	20	97	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2430219	
Project Name	: HUNTINGTON READY MIXED		**Project Number**	: 20116	
Instrument ID	: DAKOTA		**Calibration Date**	: 06/06/24 13:04	
Lab File ID	: ABN0606		**Init. Calib. Date(s)**	: 05/31/24	06/01/24
Sample No	: WG1930740-3		**Init. Calib. Times**	: 18:03	05:05
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.186	1.06	-	10.6	20	90	0
Dibenzo(a,h)anthracene	1.089	0.986	-	9.5	20	95	0
Benzo(ghi)perylene	1.087	0.977	-	10.1	20	95	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/06/24 13:26		
Lab File ID	: AP90606	**Init. Calib. Date(s)**	: 05/31/24	06/01/24	
Sample No	: WG1930740-4	**Init. Calib. Times**	: 18:03	05:05	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	85	0
Benzaldehyde	0.959	0.999	-	-4.2	20	101	0
Acetophenone	1.593	1.725	-	-8.3	20	96	0
m-Toluidine	1.457	1.615	-	-10.8	20	96	0
2-Chloroaniline	1.441	1.617	-	-12.2	20	99	0
IS2_Naphthalene-d8	1	1	-	0	20	89	0
a-Terpineol	0.248	0.259	-	-4.4	20	99	0
3-Chloroaniline	0.136	0.14	-	-2.9	20	98	0
2,6-Dichlorophenol	0.319	0.355	-	-11.3	20	101	0
1-chloro-2-nitrobenzene	0.121	0.137	-	-13.2	20	106	0
Caprolactam	0.129	0.137	-	-6.2	20	98	0
1,2,4,5-Tetrachlorobenzene	0.449	0.482	-	-7.3	20	101	0
Biphenyl	0.931	1.006	-	-8.1	20	102	0
IS2_Acenaphthene-d10	1	1	-	0	20	93	0
Dichloran	5	5.316	-	-6.3	20	124	0
Pentachloronitrobenzene	0.16	0.199	-	-24.4*	20	114	0
IS2_Phenanthrene-d10	1	1	-	0	20	98	0
Diphenamid	0.471	0.501	-	-6.4	20	108	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/06/24 13:48		
Lab File ID	: ADP0606	**Init. Calib. Date(s)**	: 05/31/24	06/01/24	
Sample No	: WG1930740-5	**Init. Calib. Times**	: 18:03	05:05	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	91	0
n-Decane	1.164	1.051	-	9.7	20	88	0
IS3_Acenaphthene-d10	1	1	-	0	20	95	0
Atrazine	0.423	0.418	-	1.2	20	101	0
IS3_Phenanthrene-d10	1	1	-	0	20	96	0
n-Octadecane	0.325	0.303	-	6.8	20	94	0
Parathion	5	5.147	-	-2.9	20	103	0
3,3'-Dimethylbenzidine	5	5.039	-	-0.8	20	104	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240606RVT\
Data File : ABN0606.D
Acq On : 6 Jun 2024 1:04 pm
Operator : Dakota:gmr
Sample : WG1930740-3,32,,ABN 10526 HNY0517B
Misc : WG1930740,,ical21172
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 06 13:41:52 2024
Quant Method : I:\8270\dakota\240606RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 06 12:48:38 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	94	0.00
2	t	n-Nitrosodimethylamine		0.643	0.658	-2.3	100	0.00
3	t	Pyridine		1.051	0.977	7.0	88	0.00
4	S	2-Fluorophenol		1.003	0.973	3.0	96	0.00
5	T	Aniline		1.625	1.512	7.0	89	0.00
6	t	2-Chlorophenol		1.121	1.137	-1.4	94	0.00
7	S	Phenol-d6		1.244	1.288	-3.5	98	0.00
8	T	Phenol		1.393	1.434	-2.9	96	0.00
9	T	Bis(2-chloroethyl)ether		0.948	0.949	-0.1	93	0.00
10	T	1,3-Dichlorobenzene		1.422	1.468	-3.2	100	0.00
11	T	1,4-Dichlorobenzene		1.411	1.475	-4.5	101	0.00
12	T	1,2-Dichlorobenzene		1.364	1.421	-4.2	97	0.00
13	t	Benzyl alcohol		0.915	0.919	-0.4	93	0.00
14	T	Bis(2-chloroisopropyl)ether		1.578	1.636	-3.7	101	0.00
15	T	2-Methylphenol		0.937	0.955	-1.9	94	0.00
16	T	Hexachloroethane		0.505	0.509	-0.8	97	0.00
17	T	n-Nitrosodi-n-propylamine		0.843	0.821	2.6	93	0.00
18	T	3-Methylphenol/4-Methylphen		1.022	1.027	-0.5	93	0.00
19	S	Nitrobenzene-d5		1.102	1.209	-9.7	105	0.00
20	T	Nitrobenzene		1.084	1.195	-10.2	104	0.00
21	T	Isophorone		2.100	2.245	-6.9	100	0.00
22	T	2-Nitrophenol		0.495	0.553	-11.7	106	0.00
23	T	2,4-Dimethylphenol		0.972	0.861	11.4	80	0.00
24	T	Bis(2-chloroethoxy)methane		1.258	1.347	-7.1	98	0.00
25	T	2,4-Dichlorophenol		1.126	1.162	-3.2	95	0.00
26	T	1,2,4-Trichlorobenzene		1.352	1.473	-8.9	101	0.00
34	I	IS1_Naphthalene-d8		1.000	1.000	0.0	95	0.00
35	T	Naphthalene		0.964	0.944	2.1	99	0.00
36	T	Benzoic Acid	*	5.000	5.067	-1.3	119	0.00
37	T	4-Chloroaniline		0.118	0.113	4.2	101	0.00
38	T	Hexachlorobutadiene		0.228	0.233	-2.2	101	0.00
39	T	p-Chloro-m-cresol		0.261	0.260	0.4	99	0.00
40	T	2-Methylnaphthalene		0.690	0.681	1.3	99	0.00
41	T	1-Methylnaphthalene		0.230	0.231	-0.4	101	0.00
42	T	Hexachlorocyclopentadiene		0.241	0.216	10.4	90	0.00
43	T	2,4,6-Trichlorophenol		0.267	0.285	-6.7	105	0.00
44	T	2,4,5-Trichlorophenol		0.290	0.308	-6.2	104	0.00
45	S	2-Fluorobiphenyl		0.920	0.916	0.4	103	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240606RVT\
Data File : ABN0606.D
Acq On : 6 Jun 2024 1:04 pm
Operator : Dakota:gmr
Sample : WG1930740-3,32,,ABN 10526 HNY0517B
Misc : WG1930740,,ical21172
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 06 13:41:52 2024
Quant Method : I:\8270\dakota\240606RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 06 12:48:38 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene		0.759	0.784	-3.3	103	0.00
47	T	2-Nitroaniline		0.179	0.200	-11.7	112	0.00
48	T	1,4-Dinitrobenzene		0.080	0.105	-31.2#	132	0.00
49	T	1,3-Dinitrobenzene		0.089	0.118	-32.6#	127	0.00
50	T	Dimethyl phthalate		0.896	0.978	-9.2	109	0.00
51	T	Acenaphthylene		1.130	1.218	-7.8	110	0.00
52	T	2,6-Dinitrotoluene		0.157	0.191	-21.7#	124	0.00
53	T	1,2-Dinitrobenzene		0.055	0.074	-34.5#	132	0.00
62	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	95	0.00
63	T	3-Nitroaniline		0.236	0.281	-19.1	112	0.00
64	T	Acenaphthene		0.993	0.988	0.5	103	0.00
65	T	2,4-Dinitrophenol	*	5.000	6.450	-29.0#	145	0.00
66	T	Dibenzofuran		1.665	1.747	-4.9	107	0.00
67	T	2,4-Dinitrotoluene		0.299	0.396	-32.4#	124	0.00
68	T	4-Nitrophenol		0.205	0.229	-11.7	103	0.00
69	T	2,3,5,6-Tetrachlorophenol		0.369	0.409	-10.8	109	0.00
70	T	2,3,4,6-Tetrachlorophenol		0.355	0.404	-13.8	112	0.00
71	T	Diethyl phthalate		1.362	1.394	-2.3	105	0.00
72	T	Fluorene		1.323	1.373	-3.8	106	0.00
73	T	4-Chlorophenyl phenyl ether		0.702	0.715	-1.9	106	0.00
74	T	4-Nitroaniline		0.252	0.300	-19.0	109	0.00
75	T	4,6-Dinitro-o-cresol	*	5.000	6.668	-33.4#	146	0.00
76	T	NDPA/DPA		1.141	1.199	-5.1	105	0.00
77	T	Azobenzene		1.142	1.208	-5.8	109	0.00
78	S	2,4,6-Tribromophenol		0.187	0.220	-17.6	112	0.00
79	T	4-Bromophenyl phenyl ether		0.436	0.453	-3.9	106	0.00
80	T	Hexachlorobenzene		0.502	0.522	-4.0	110	0.00
81	T	Pentachlorophenol	*	5.000	5.462	-9.2	114	0.00
87	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	102	0.00
88	T	Phenanthrene		1.003	0.985	1.8	108	0.00
89	T	Anthracene		0.980	0.983	-0.3	108	0.00
90	T	Carbazole		0.949	0.929	2.1	107	0.00
91	T	Di-n-butylphthalate		1.032	1.034	-0.2	107	0.00
92	T	Fluoranthene		1.280	1.231	3.8	108	0.00
93	T	Benzidine		0.733	0.765	-4.4	103	0.00
94	T	Pyrene		1.344	1.330	1.0	110	0.00
95	S	4-Terphenyl-d14		1.001	0.998	0.3	110	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240606RVT\
Data File : ABN0606.D
Acq On : 6 Jun 2024 1:04 pm
Operator : Dakota:gmr
Sample : WG1930740-3,32,,ABN 10526 HNY0517B
Misc : WG1930740,,ical21172
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 06 13:41:52 2024
Quant Method : I:\8270\dakota\240606RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 06 12:48:38 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	0.473	0.463	2.1	106	0.00
103	I	IS1_Chrysene-d12	1.000	1.000	0.0	99	0.00
104	T	Benzo(a)anthracene	1.378	1.308	5.1	110	0.00
105	T	3,3'-Dichlorobenzidine	0.473	0.494	-4.4	109	0.00
106	T	Chrysene	1.263	1.224	3.1	108	0.00
107	T	Bis(2-ethylhexyl)phthalate	0.666	0.682	-2.4	108	0.00
108	T	Di-n-octylphthalate	1.136	1.168	-2.8	108	0.00
109	T	Benzo(b)fluoranthene	1.418	1.332	6.1	106	0.00
110	T	Benzo(k)fluoranthene	1.357	1.320	2.7	113	0.00
111	T	Benzo(a)pyrene	1.262	1.240	1.7	108	0.00
112	I	IS1_Perylene-d12	1.000	1.000	0.0	97	0.00
113	T	Indeno(1,2,3-cd)pyrene	1.186	1.060	10.6	90	0.00
114	T	Dibenzo(a,h)anthracene	1.089	0.986	9.5	95	0.00
115	T	Benzo(ghi)perylene	1.087	0.977	10.1	95	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240606RVT\
Data File : ABN0606.D
Acq On : 6 Jun 2024 1:04 pm
Operator : Dakota:gmr
Sample : WG1930740-3,32,,ABN 10526 HNY0517B
Misc : WG1930740,,ical21172
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 06 13:41:52 2024
Quant Method : I:\8270\dakota\240606RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 06 12:48:38 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.614	152	28336	4.000	ug/ml	-0.02
34) IS1_Naphthalene-d8	5.848	136	106354	4.000	ug/ml	-0.02
62) IS1_Acenaphthene-d10	7.545	164	72631	4.000	ug/ml	-0.02
87) IS1_Phenanthrene-d10	8.971	188	173211	4.000	ug/ml	-0.02
103) IS1_Chrysene-d12	11.585	240	181940	4.000	ug/ml	-0.02
112) IS1_Perylene-d12	13.033	264	205628	4.000	ug/ml	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	3.342	112	34480	4.852	ug/ml	-0.02
Spiked Amount 2.000	Range 15 - 110		Recovery = 242.60%#			
7) Phenol-d6	4.297	99	45605	5.175	ug/ml	-0.02
Spiked Amount 2.000	Range 15 - 110		Recovery = 258.75%#			
19) Nitrobenzene-d5	5.154	82	42808	5.486	ug/ml	-0.02
Spiked Amount 1.000	Range 30 - 130		Recovery = 548.60%#			
45) 2-Fluorobiphenyl	6.917	172	121815	4.982	ug/ml	-0.02
Spiked Amount 1.000	Range 30 - 130		Recovery = 498.20%#			
78) 2,4,6-Tribromophenol	8.306	330	20000	5.901	ug/ml	-0.02
Spiked Amount 2.000	Range 15 - 110		Recovery = 295.05%#			
95) 4-Terphenyl-d14	10.541	244	216172	4.986	ug/ml	-0.02
Spiked Amount 1.000	Range 30 - 130		Recovery = 498.60%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.947	74	23302	5.113	ug/ml	89
3) Pyridine	1.984	79	34604	4.646	ug/ml#	60
5) Aniline	4.297	93	53546	4.652	ug/ml#	78
6) 2-Chlorophenol	4.409	128	40255	5.068	ug/ml#	88
8) Phenol	4.309	94	50802	5.147	ug/ml#	84
9) Bis(2-chloroethyl)ether	4.377	93	33623	5.009	ug/ml	99
10) 1,3-Dichlorobenzene	4.555	146	52009	5.164	ug/ml	94
11) 1,4-Dichlorobenzene	4.629	146	52235	5.225	ug/ml	95
12) 1,2-Dichlorobenzene	4.775	146	50316	5.207	ug/ml	93
13) Benzyl alcohol	4.766	79	32549	5.024	ug/ml	95
14) Bis(2-chloroisopropyl)...	4.909	45	57963	5.186	ug/ml#	58
15) 2-Methylphenol	4.896	108	33829	5.094	ug/ml	97
16) Hexachloroethane	5.105	117	18044	5.048	ug/ml#	47
17) n-Nitrosodi-n-propylamine	5.033	70	29085	4.873	ug/ml#	88
18) 3-Methylphenol/4-Methy...	5.055	108	36381	5.025	ug/ml	98
20) Nitrobenzene	5.170	77	42338	5.511	ug/ml	96
21) Isophorone	5.412	82	79533	5.347	ug/ml#	92
22) 2-Nitrophenol	5.487	139	19587	5.581	ug/ml	90

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240606RVT\
Data File : ABN0606.D
Acq On : 6 Jun 2024 1:04 pm
Operator : Dakota:gmr
Sample : WG1930740-3,32,,ABN 10526 HNY0517B
Misc : WG1930740,,ical21172
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 06 13:41:52 2024
Quant Method : I:\8270\dakota\240606RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 06 12:48:38 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	5.565	107	30503	4.429	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.649	93	47710	5.354	ug/ml#	98
25) 2,4-Dichlorophenol	5.726	162	41142	5.158	ug/ml#	90
26) 1,2,4-Trichlorobenzene	5.801	180	52166	5.448	ug/ml#	96
35) Naphthalene	5.866	128	125490	4.894	ug/ml	99
36) Benzoic Acid	5.636	105	24881	5.067	ug/ml	94
37) 4-Chloroaniline	5.938	65	14995	4.786	ug/ml	76
38) Hexachlorobutadiene	6.019	225	30986	5.121	ug/ml	99
39) p-Chloro-m-cresol	6.435	107	34603	4.989	ug/ml	88
40) 2-Methylnaphthalene	6.544	142	90485	4.932	ug/ml	97
41) 1-Methylnaphthalene	6.637	115	30685	5.013	ug/ml	98
42) Hexachlorocyclopentadiene	6.715	237	28689	4.474	ug/ml	98
43) 2,4,6-Trichlorophenol	6.833	196	37829M3	5.331	ug/ml	
44) 2,4,5-Trichlorophenol	6.861	196	40956	5.306	ug/ml	97
46) 2-Chloronaphthalene	7.010	162	104275	5.167	ug/ml#	91
47) 2-Nitroaniline	7.122	138	26562	5.593	ug/ml	85
48) 1,4-Dinitrobenzene	7.249	168	13918	6.577	ug/ml	85
49) 1,3-Dinitrobenzene	7.327	168	15716	6.631	ug/ml#	1
50) Dimethyl phthalate	7.321	163	130049	5.461	ug/ml#	98
51) Acenaphthylene	7.405	152	161886	5.386	ug/ml	98
52) 2,6-Dinitrotoluene	7.364	165	25453	6.084	ug/ml#	79
53) 1,2-Dinitrobenzene	7.405	168	9792	6.665	ug/ml#	1
63) 3-Nitroaniline	7.520	138	25486	5.940	ug/ml#	94
64) Acenaphthene	7.576	154	89676	4.975	ug/ml	88
65) 2,4-Dinitrophenol	7.619	184	15898	6.450	ug/ml#	81
66) Dibenzofuran	7.747	168	158566	5.245	ug/ml	90
67) 2,4-Dinitrotoluene	7.750	165	35911	6.616	ug/ml	92
68) 4-Nitrophenol	7.709	65	20752	5.585	ug/ml#	81
69) 2,3,5,6-Tetrachlorophenol	7.837	232	37139	5.540	ug/ml	97
70) 2,3,4,6-Tetrachlorophenol	7.877	232	36694	5.687	ug/ml	97
71) Diethyl phthalate	8.011	149	126556	5.118	ug/ml	99
72) Fluorene	8.076	166	124641	5.188	ug/ml	93
73) 4-Chlorophenyl phenyl ...	8.095	204	64932	5.091	ug/ml#	82
74) 4-Nitroaniline	8.104	138	27233	5.958	ug/ml#	82
75) 4,6-Dinitro-o-cresol	8.138	198	22189	6.668	ug/ml#	58
76) NDPA/DPA	8.210	169	108818	5.251	ug/ml	92
77) Azobenzene	8.244	77	109693	5.291	ug/ml	97
79) 4-Bromophenyl phenyl e...	8.561	248	41139	5.194	ug/ml#	80
80) Hexachlorobenzene	8.614	284	47402	5.197	ug/ml#	82
81) Pentachlorophenol	8.806	266	31640	5.462	ug/ml	98
88) Phenanthrene	8.993	178	213211	4.911	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240606RVT\
Data File : ABN0606.D
Acq On : 6 Jun 2024 1:04 pm
Operator : Dakota:gmr
Sample : WG1930740-3,32,,ABN 10526 HNY0517B
Misc : WG1930740,,ical21172
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 06 13:41:52 2024
Quant Method : I:\8270\dakota\240606RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 06 12:48:38 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	Anthracene	9.043	178	212938	5.017	ug/ml	99
90)	Carbazole	9.211	167	201188	4.896	ug/ml	98
91)	Di-n-butylphthalate	9.599	149	223851	5.011	ug/ml	98
92)	Fluoranthene	10.140	202	266463	4.808	ug/ml#	90
93)	Benzidine	10.292	184	165562	5.214	ug/ml#	94
94)	Pyrene	10.351	202	287975	4.948	ug/ml	99
96)	Butyl benzyl phthalate	11.063	149	100304	4.900	ug/ml	85
104)	Benzo(a)anthracene	11.576	228	297585M3	4.747	ug/ml	
105)	3,3'-Dichlorobenzidine	11.576	252	112308	5.220	ug/ml#	94
106)	Chrysene	11.610	228	278422	4.847	ug/ml	99
107)	Bis(2-ethylhexyl)phtha...	11.700	149	155004	5.115	ug/ml#	90
108)	Di-n-octylphthalate	12.368	149	265724	5.141	ug/ml#	74
109)	Benzo(b)fluoranthene	12.670	252	302951M3	4.697	ug/ml	
110)	Benzo(k)fluoranthene	12.695	252	300261	4.866	ug/ml#	92
111)	Benzo(a)pyrene	12.981	252	281991	4.912	ug/ml#	91
113)	Indeno(1,2,3-cd)pyrene	13.981	276	272554M6	4.470	ug/mL	
114)	Dibenzo(a,h)anthracene	14.003	278	253363	4.527	ug/ml#	88
115)	Benzo(ghi)perylene	14.196	276	251081	4.495	ug/ml#	84

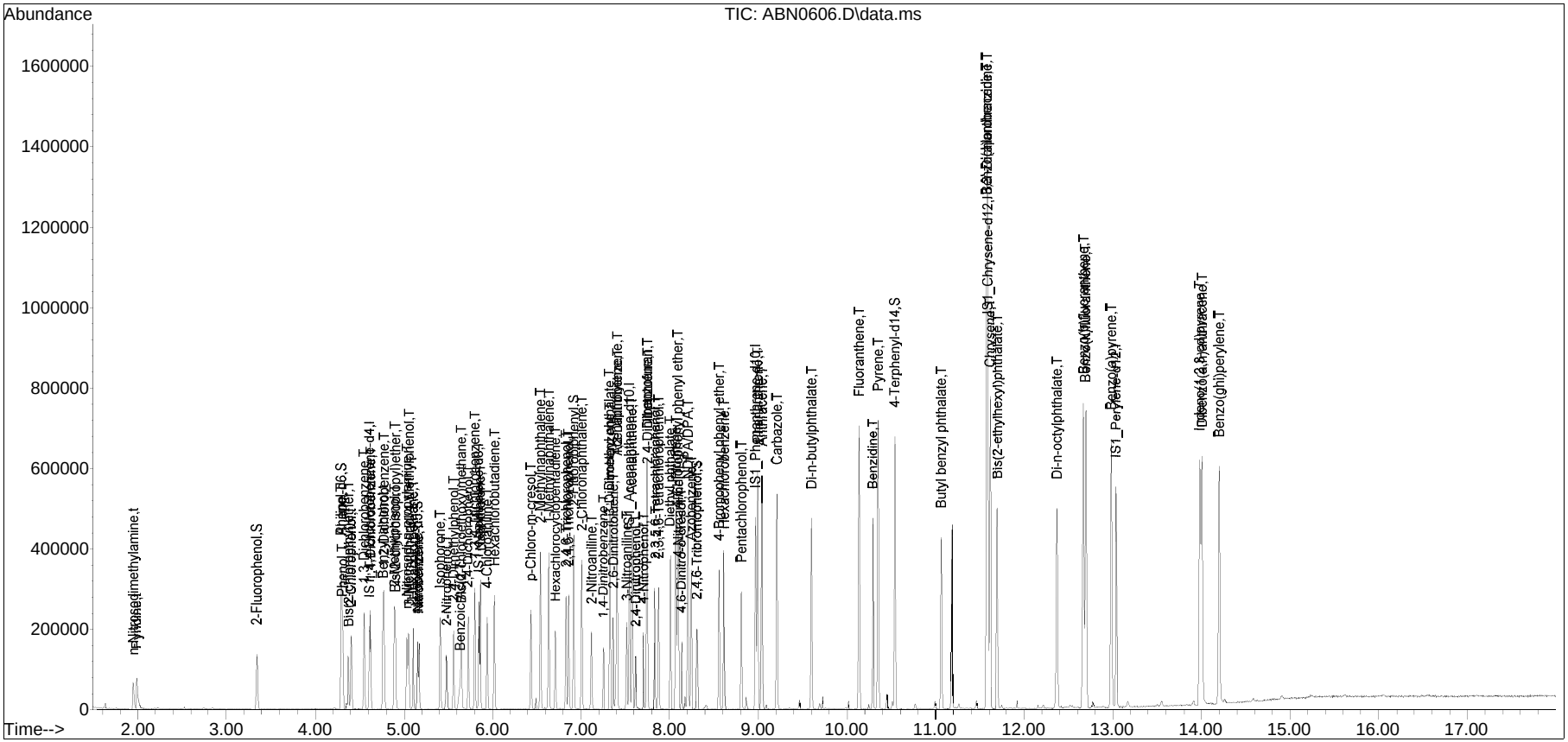
(#) = qualifier out of range (m) = manual integration (+) = signals summed

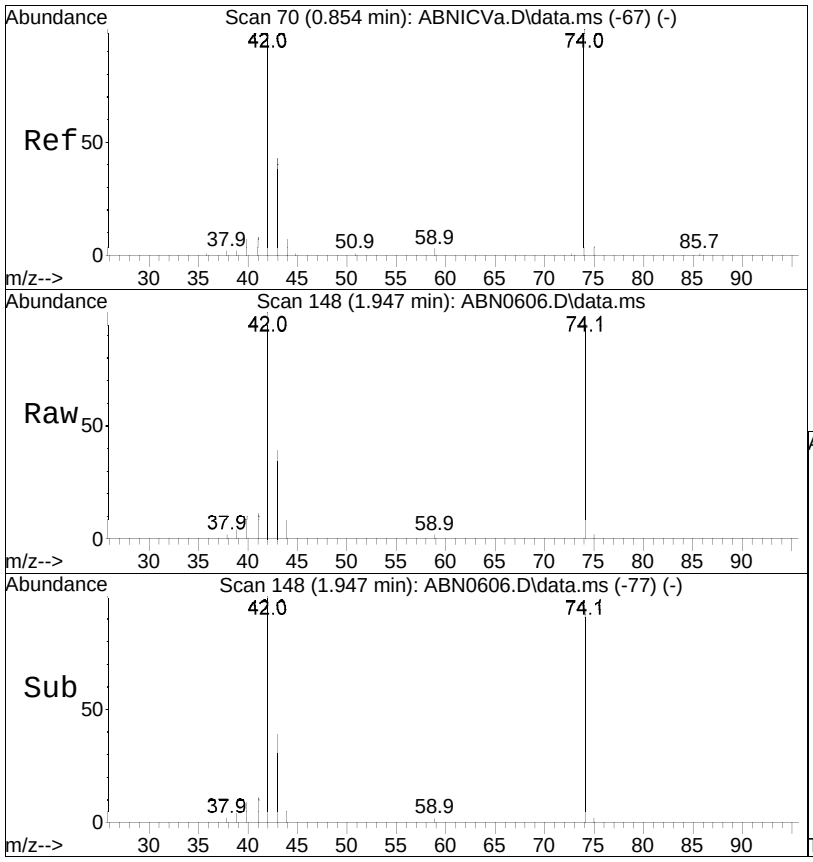
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240606RVT\
Data File : ABN0606.D
Acq On : 6 Jun 2024 1:04 pm
Operator : Dakota:gmr
Sample : WG1930740-3,32,,ABN 10526 HNY0517B
Misc : WG1930740,,ical21172
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 06 13:41:52 2024
Quant Method : I:\8270\dakota\240606RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 06 12:48:38 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

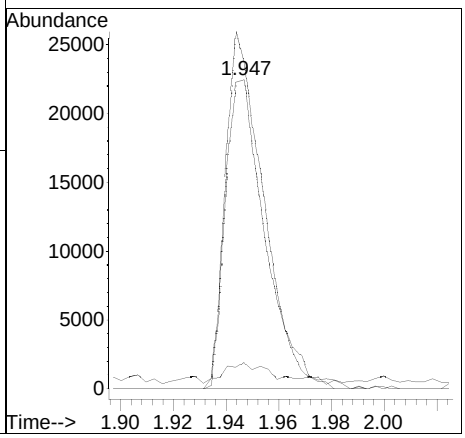


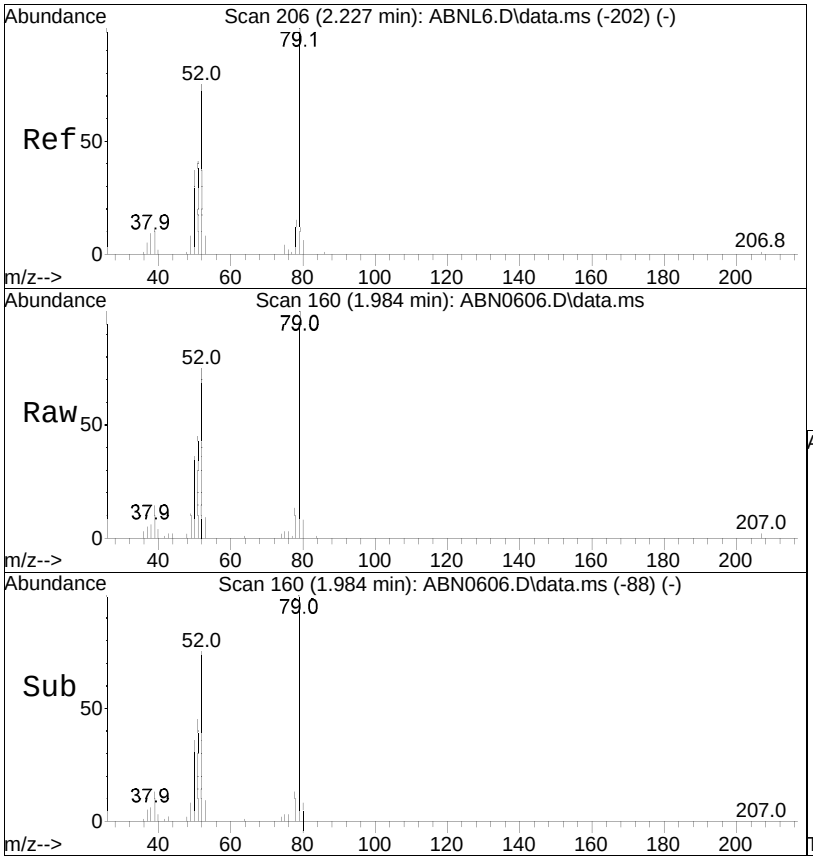


#2
n-Nitrosodimethylamine
Concen: 5.11 ug/ml
RT: 1.947 min Scan# 148
Delta R.T. -0.028 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion: 74 Resp: 23302

Ion	Ratio	Lower	Upper
74	100		
42	111.8	100.0	150.0
44	7.5	6.7	10.1

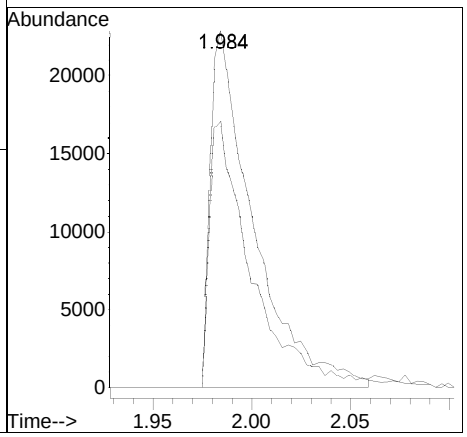


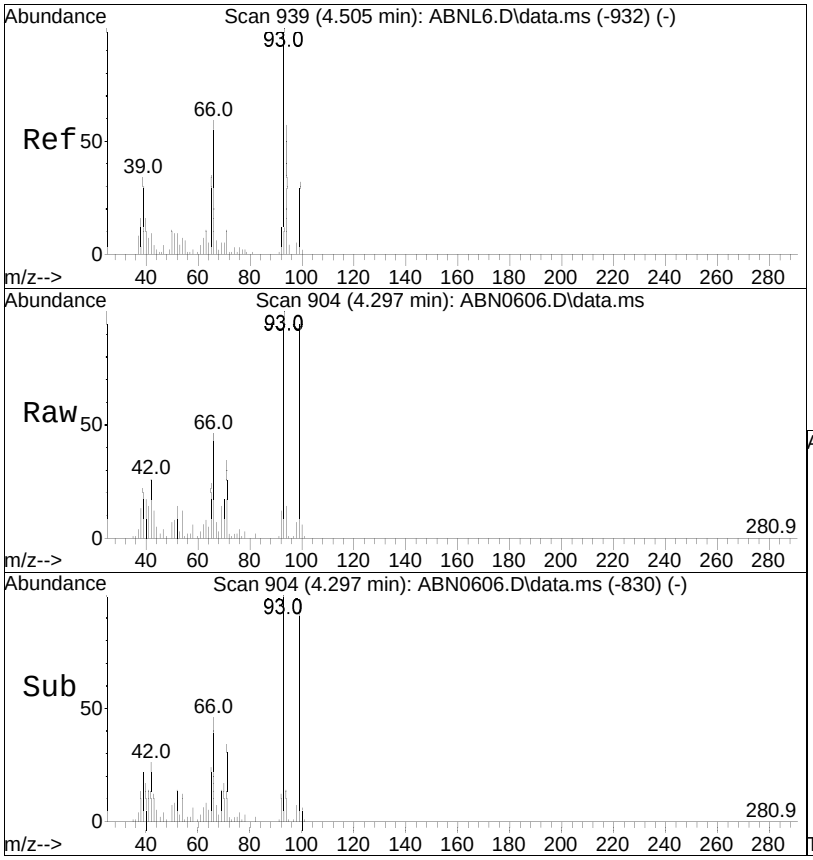


#3
Pyridine
Concen: 4.65 ug/ml
RT: 1.984 min Scan# 160
Delta R.T. -0.025 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion: 79 Resp: 34604

Ion	Ratio	Lower	Upper
79	100		
52	72.9	93.1	139.7#

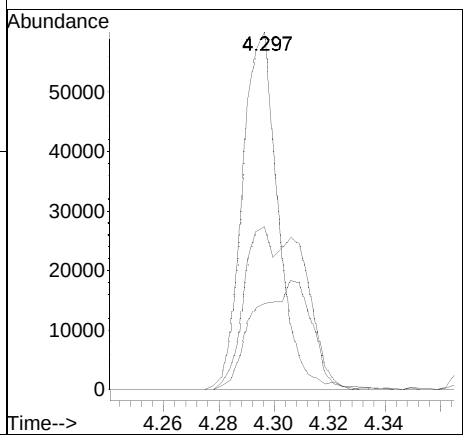


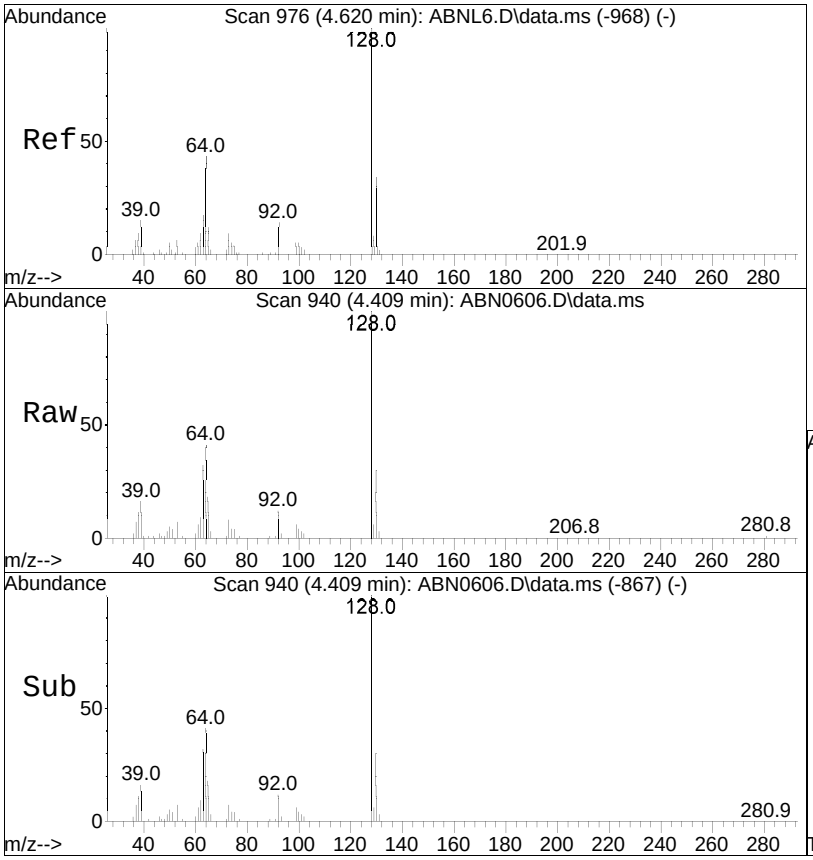


#5
Aniline
Concen: 4.65 ug/ml
RT: 4.297 min Scan# 904
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion: 93 Resp: 53546

Ion	Ratio	Lower	Upper
93	100		
66	38.8	32.6	49.0
65	48.7	17.6	26.4#

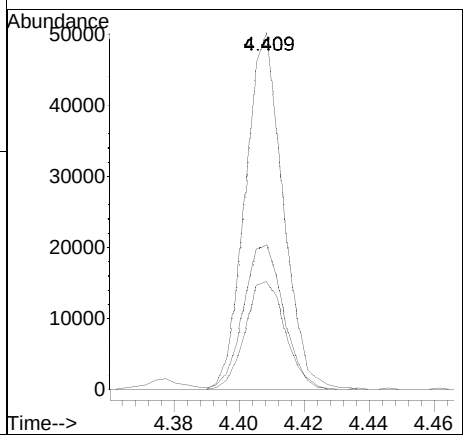


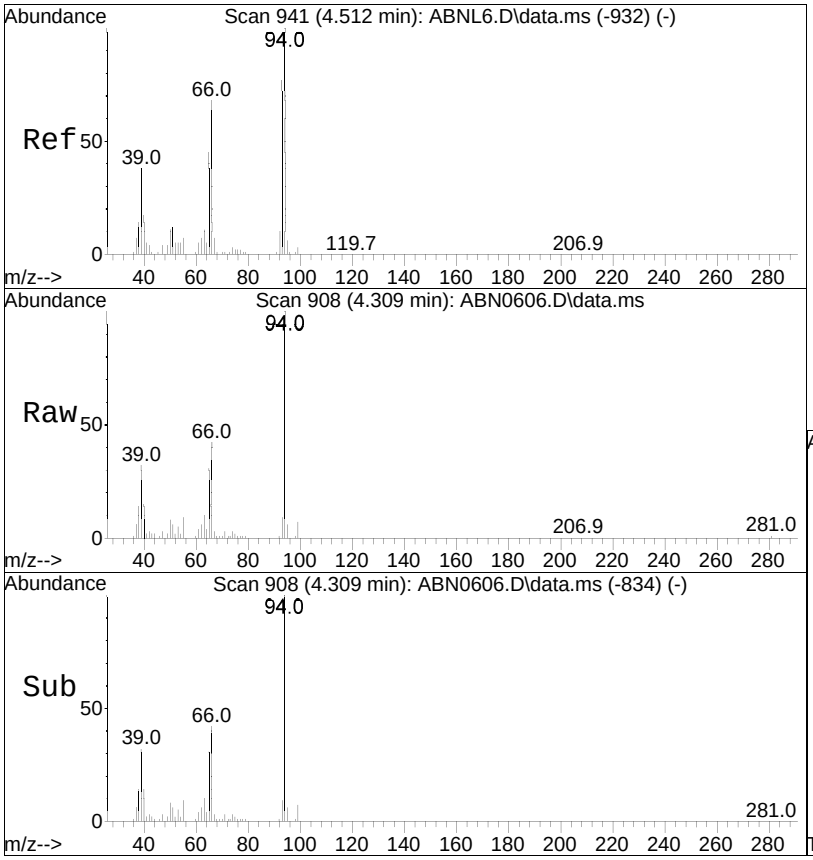


#6
2-Chlorophenol
Concen: 5.07 ug/ml
RT: 4.409 min Scan# 940
Delta R.T. -0.022 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:128 Resp: 40255

Ion	Ratio	Lower	Upper
128	100		
64	43.1	45.1	67.7#
130	32.5	26.2	39.4

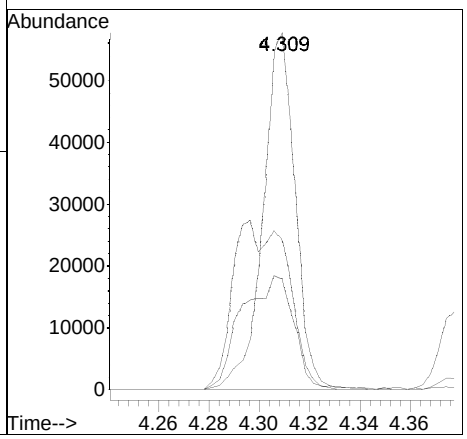


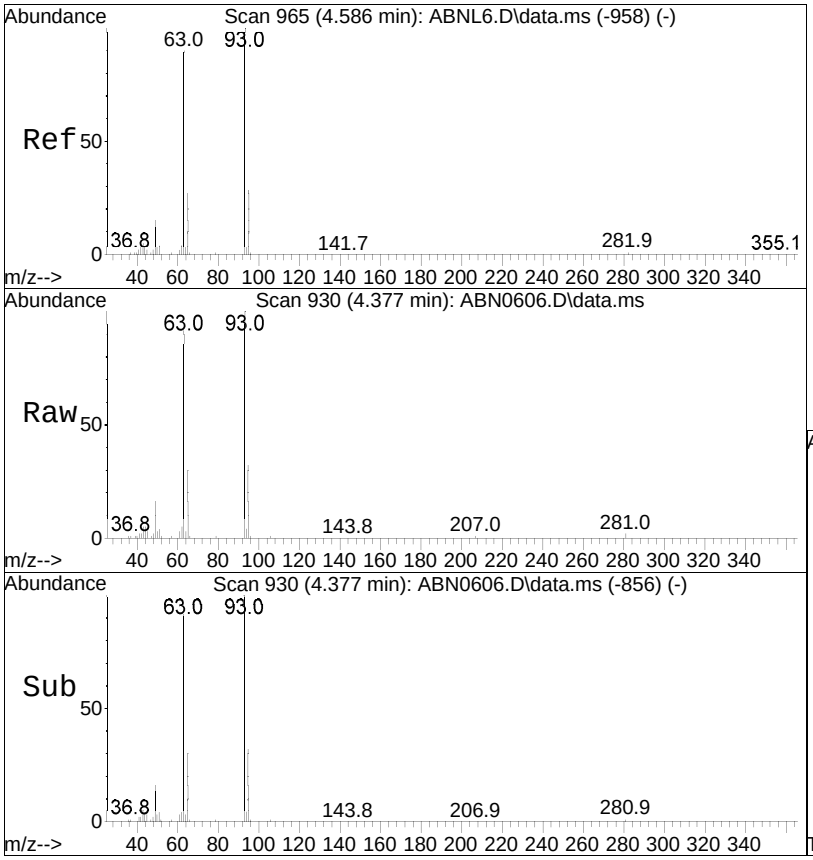


#8
Phenol
Concen: 5.15 ug/ml
RT: 4.309 min Scan# 908
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion: 94 Resp: 50802

Ion	Ratio	Lower	Upper
94	100		
65	51.3	26.0	39.0#
66	40.9	33.8	50.8

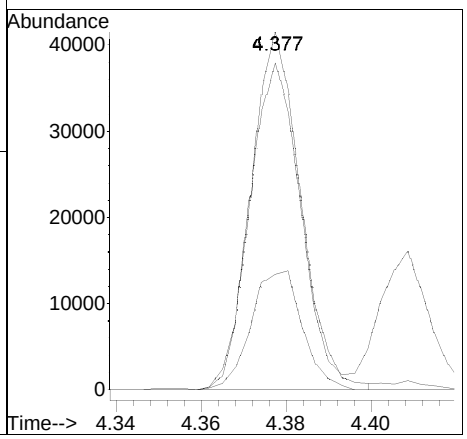


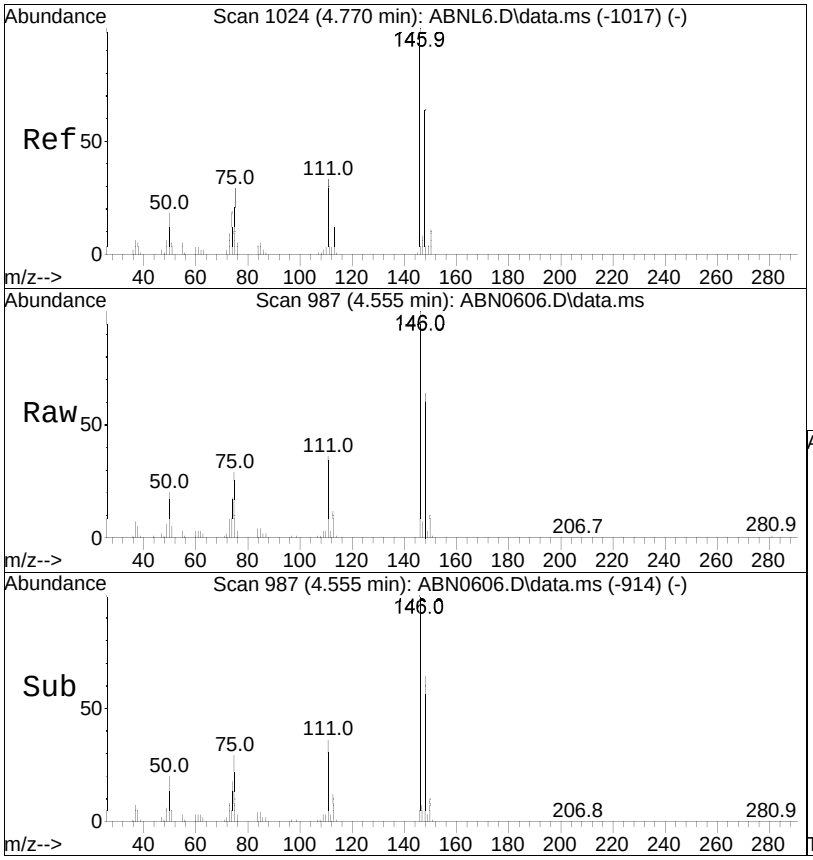


#9
Bis(2-chloroethyl)ether
Concen: 5.01 ug/ml
RT: 4.377 min Scan# 930
Delta R.T. -0.022 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion: 93 Resp: 33623

Ion	Ratio	Lower	Upper
93	100		
63	93.1	74.6	111.8
95	34.5	25.9	38.9

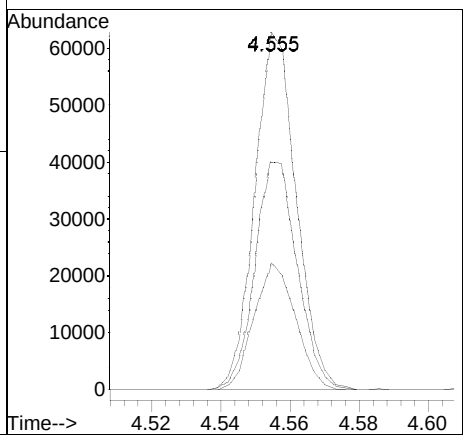


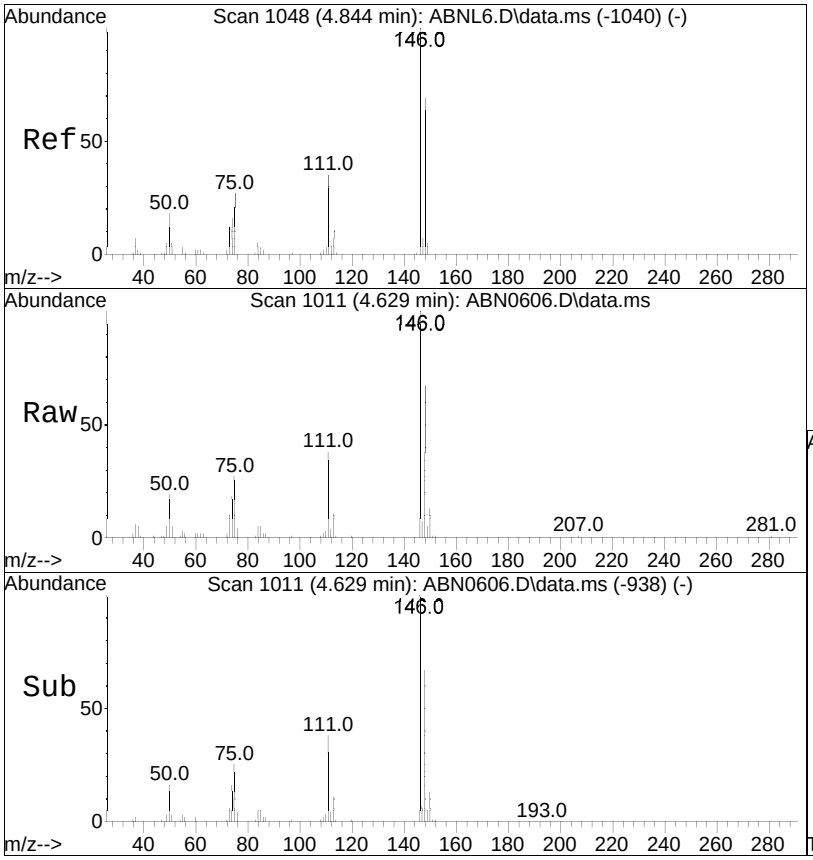


#10
1,3-Dichlorobenzene
Concen: 5.16 ug/ml
RT: 4.555 min Scan# 987
Delta R.T. -0.022 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:146 Resp: 52009

Ion	Ratio	Lower	Upper
146	100		
111	35.7	34.3	51.5
148	65.3	50.8	76.2

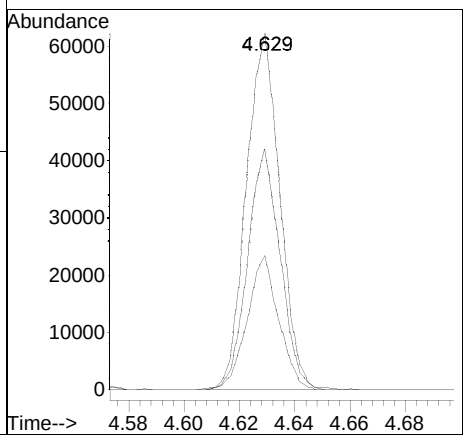


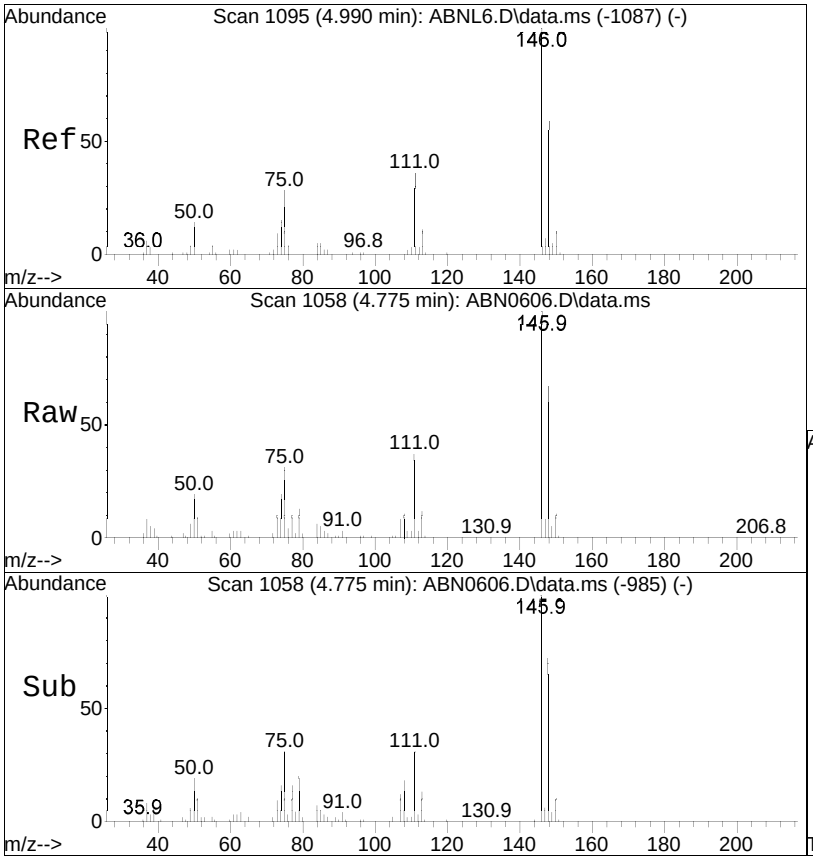


#11
1,4-Dichlorobenzene
Concen: 5.22 ug/ml
RT: 4.629 min Scan# 1011
Delta R.T. -0.022 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:146 Resp: 52235

Ion	Ratio	Lower	Upper
146	100		
148	65.6	50.7	76.1
111	35.7	33.4	50.0

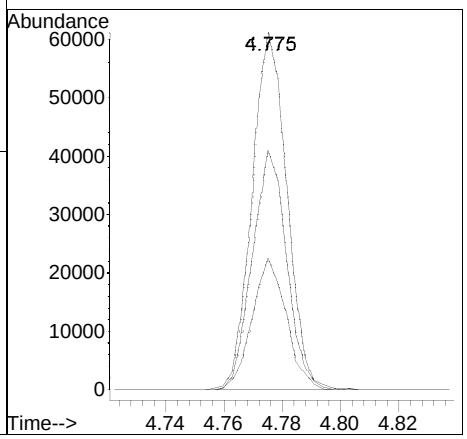


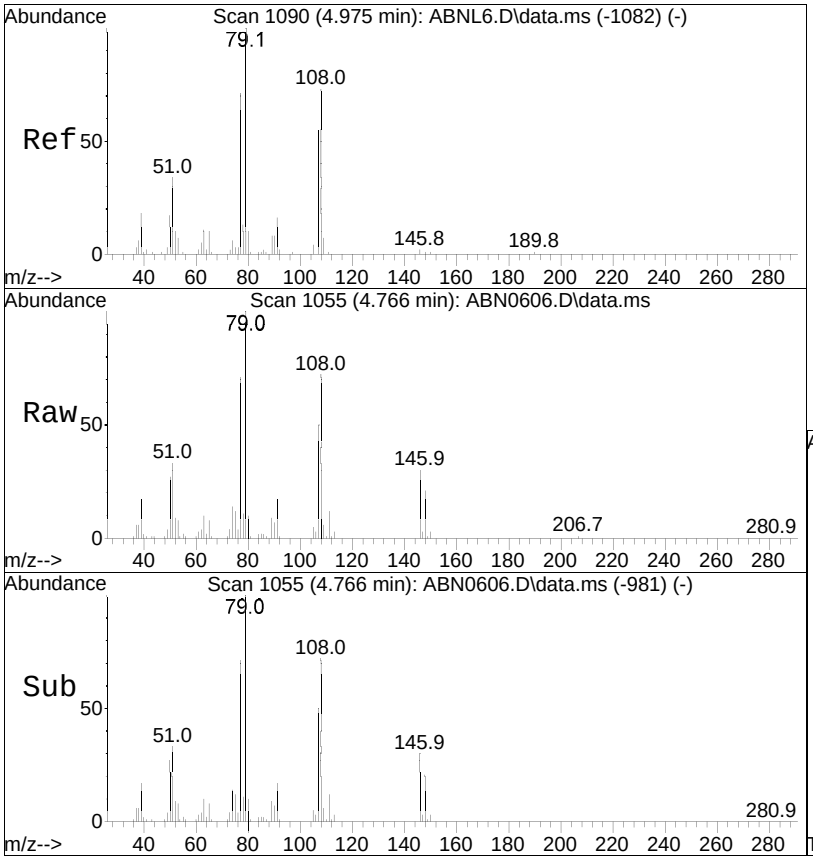


#12
1,2-Dichlorobenzene
Concen: 5.21 ug/ml
RT: 4.775 min Scan# 1058
Delta R.T. -0.022 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:146 Resp: 50316

Ion	Ratio	Lower	Upper
146	100		
111	36.3	34.6	52.0
148	66.2	50.2	75.4

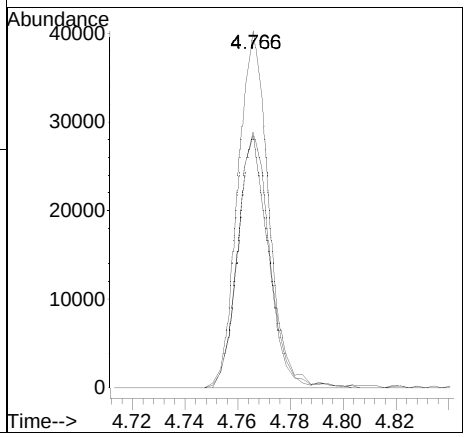


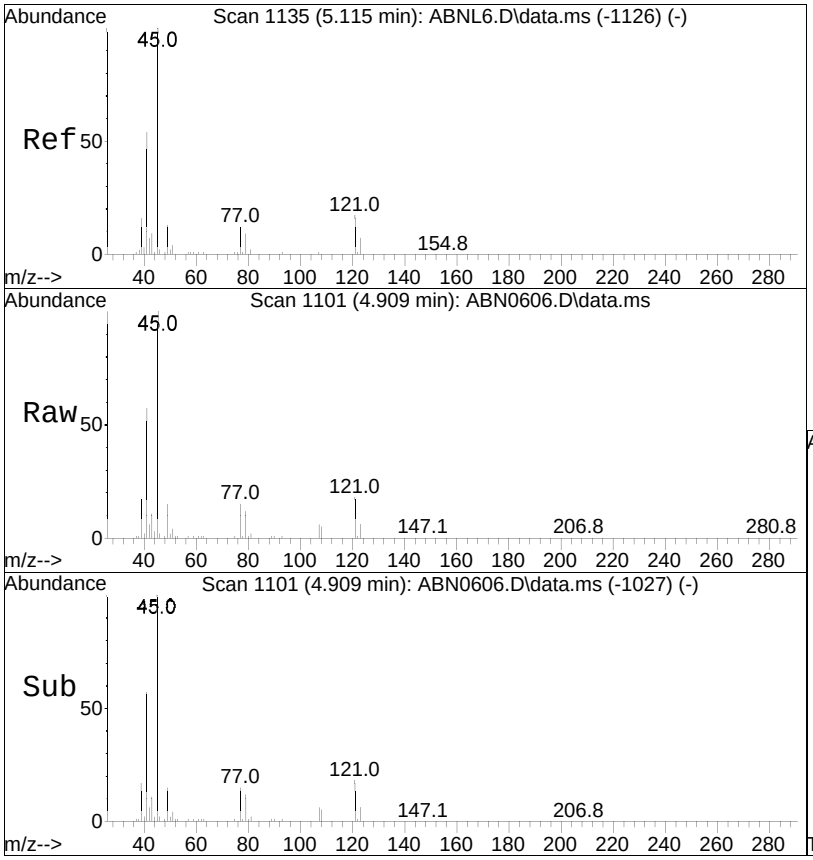


#13
Benzyl alcohol
Concen: 5.02 ug/ml
RT: 4.766 min Scan# 1055
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion: 79 Resp: 32549

Ion	Ratio	Lower	Upper
79	100		
77	70.9	54.9	82.3
108	72.7	63.1	94.7

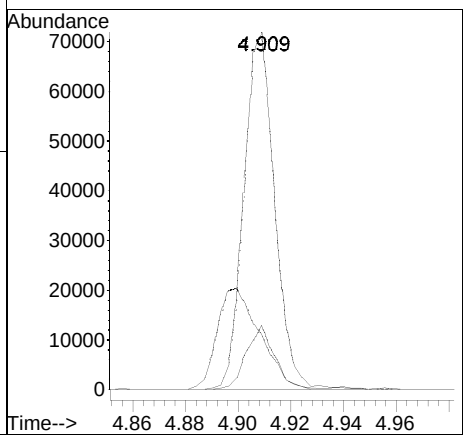


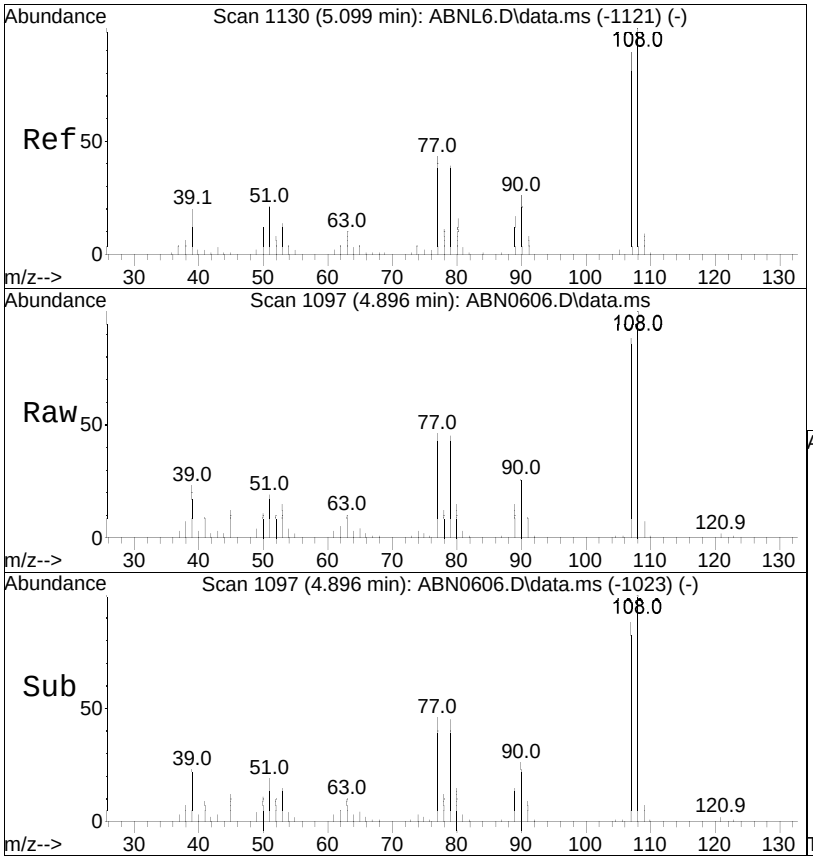


#14
Bis(2-chloroisopropyl)ether
Concen: 5.19 ug/ml
RT: 4.909 min Scan# 1101
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion: 45 Resp: 57963

Ion	Ratio	Lower	Upper
45	100		
121	16.4	9.8	14.6#
77	39.6	6.1	9.1#

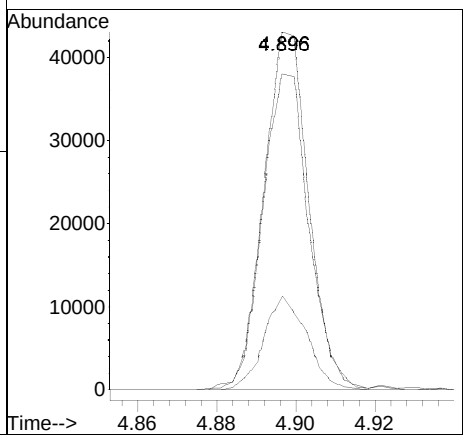


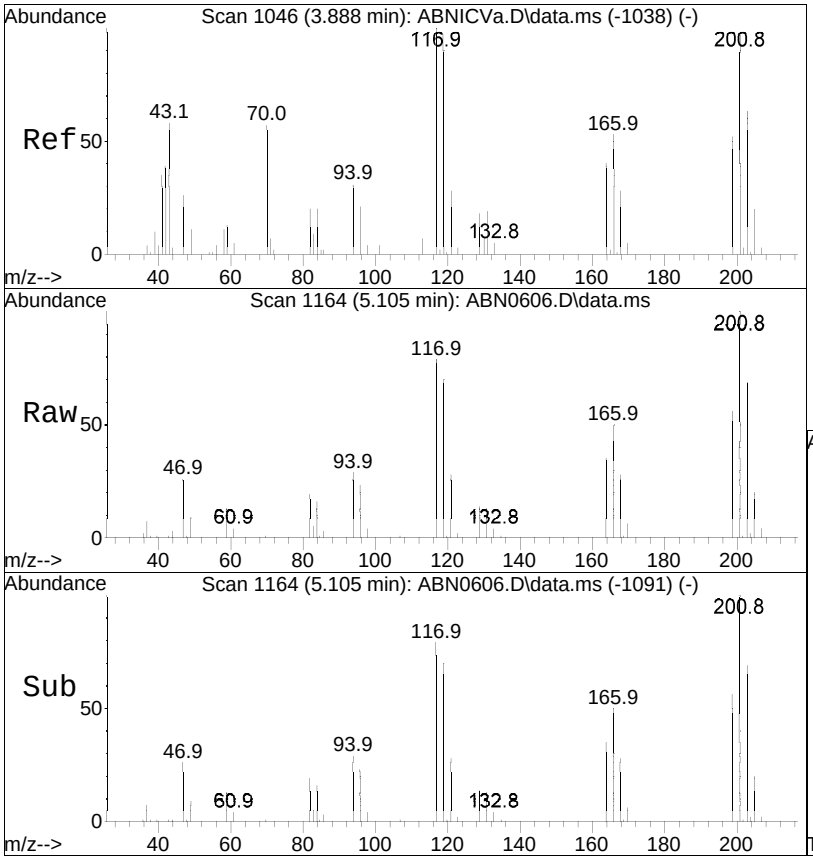


#15
2-Methylphenol
Concen: 5.09 ug/ml
RT: 4.896 min Scan# 1097
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:108 Resp: 33829

Ion	Ratio	Lower	Upper
108	100		
107	91.2	70.7	106.1
90	25.2	18.7	28.1

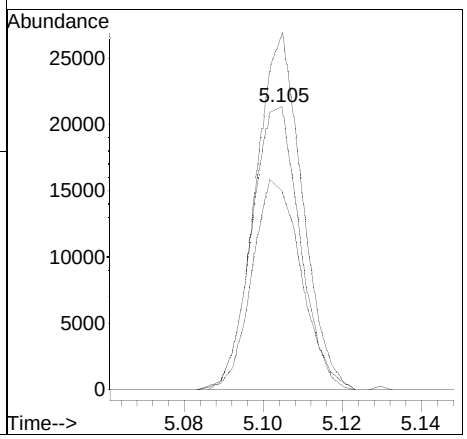


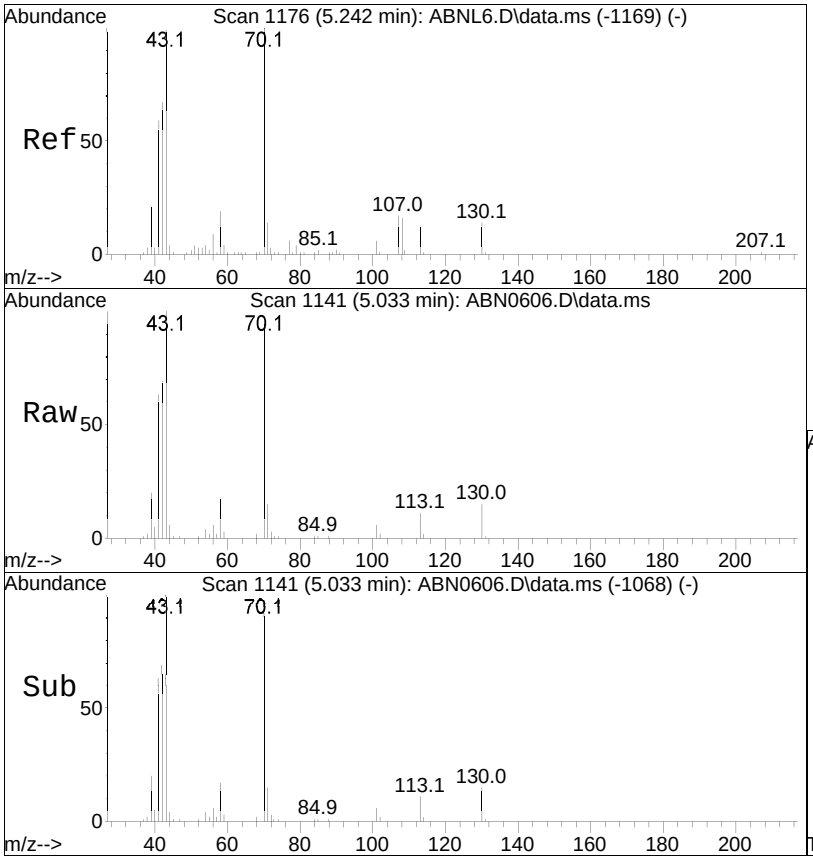


#16
Hexachloroethane
Concen: 5.05 ug/ml
RT: 5.105 min Scan# 1164
Delta R.T. -0.022 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:117 Resp: 18044

Ion	Ratio	Lower	Upper
117	100		
201	122.6	58.6	87.8#
199	75.5	36.9	55.3#

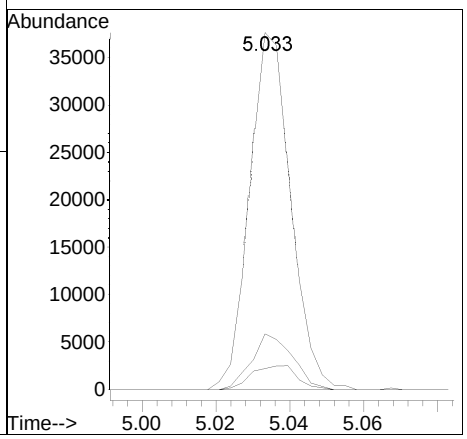


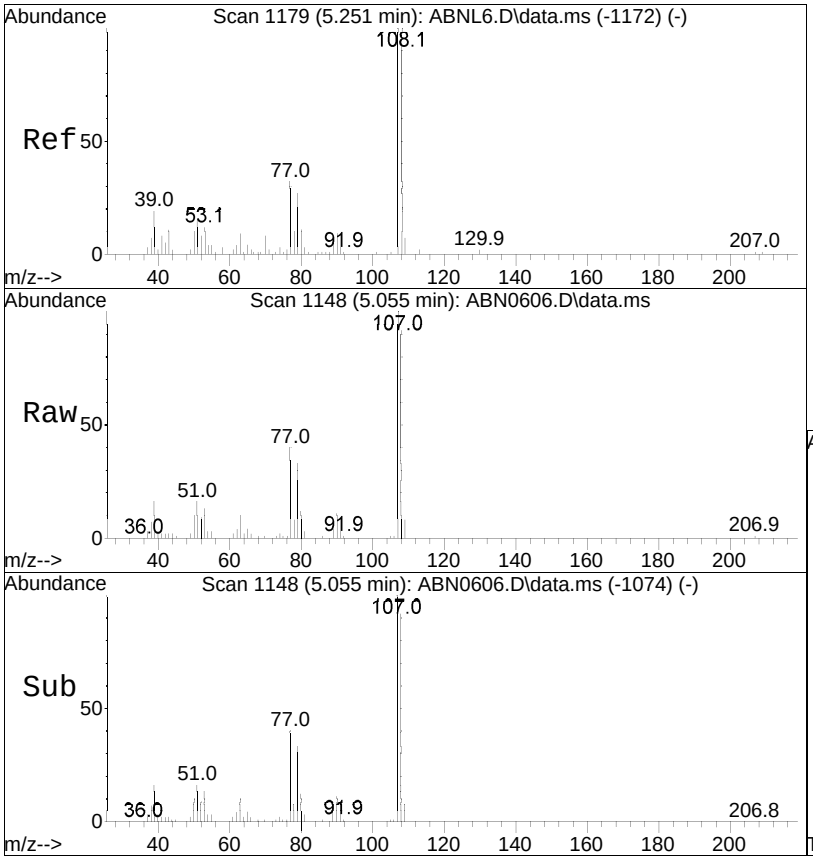


#17
n-Nitrosodi-n-propylamine
Concen: 4.87 ug/ml
RT: 5.033 min Scan# 1141
Delta R.T. -0.022 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion: 70 Resp: 29085

Ion	Ratio	Lower	Upper
70	100		
130	15.5	18.2	27.4#
101	7.5	7.8	11.8#

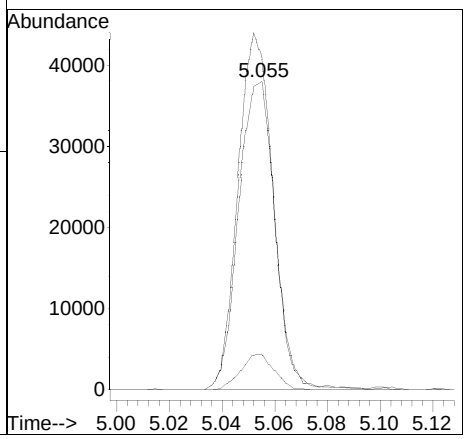


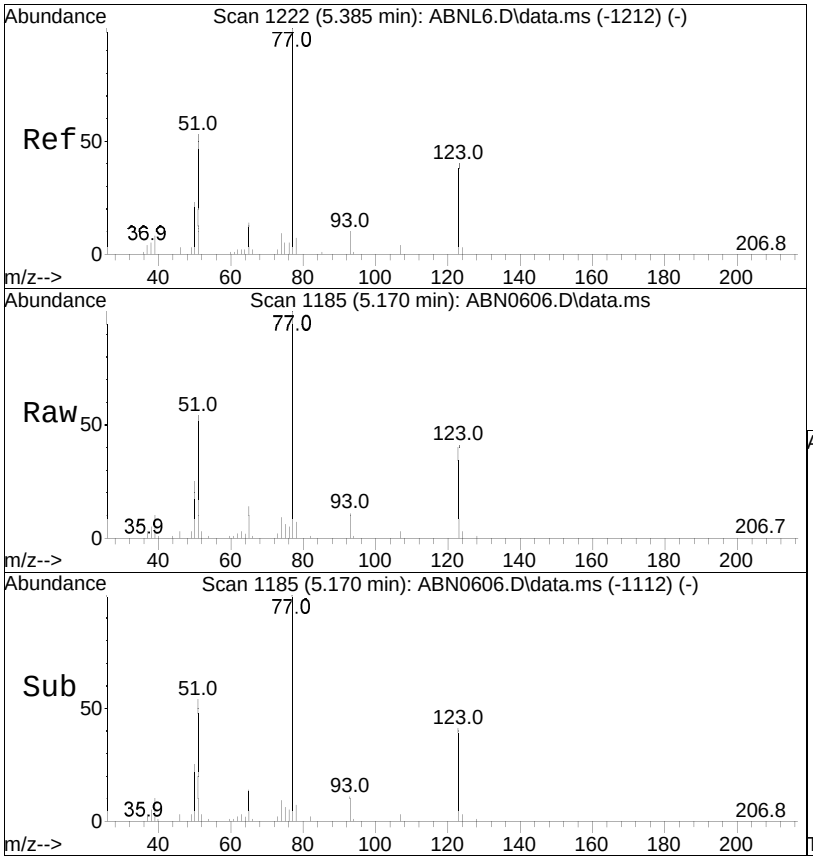


#18
3-Methylphenol/4-Methylphenol
Concen: 5.03 ug/ml
RT: 5.055 min Scan# 1148
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:108 Resp: 36381

Ion	Ratio	Lower	Upper
108	100		
107	112.5	88.6	132.8
90	10.7	8.8	13.2

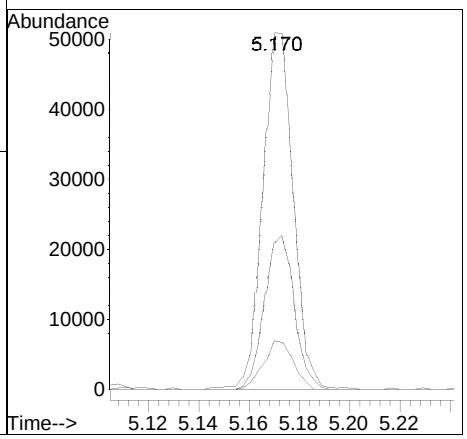


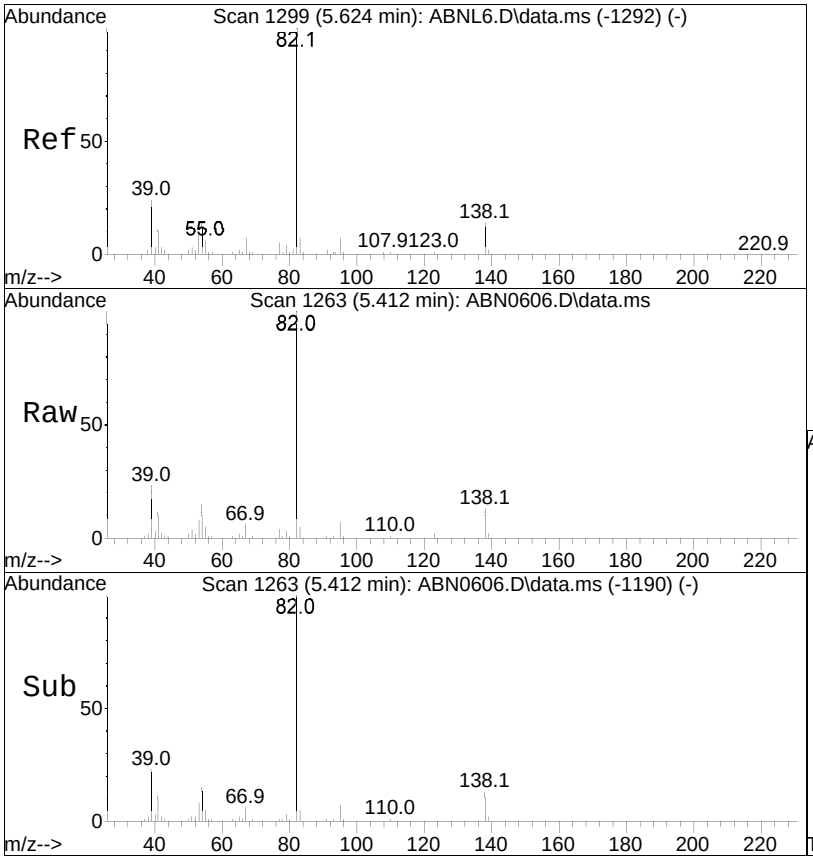


#20
Nitrobenzene
Concen: 5.51 ug/ml
RT: 5.170 min Scan# 1185
Delta R.T. -0.022 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion: 77 Resp: 42338

Ion	Ratio	Lower	Upper
77	100		
123	42.6	36.3	54.5
65	13.5	11.6	17.4

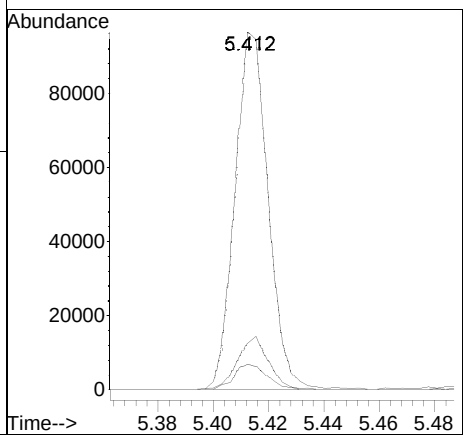


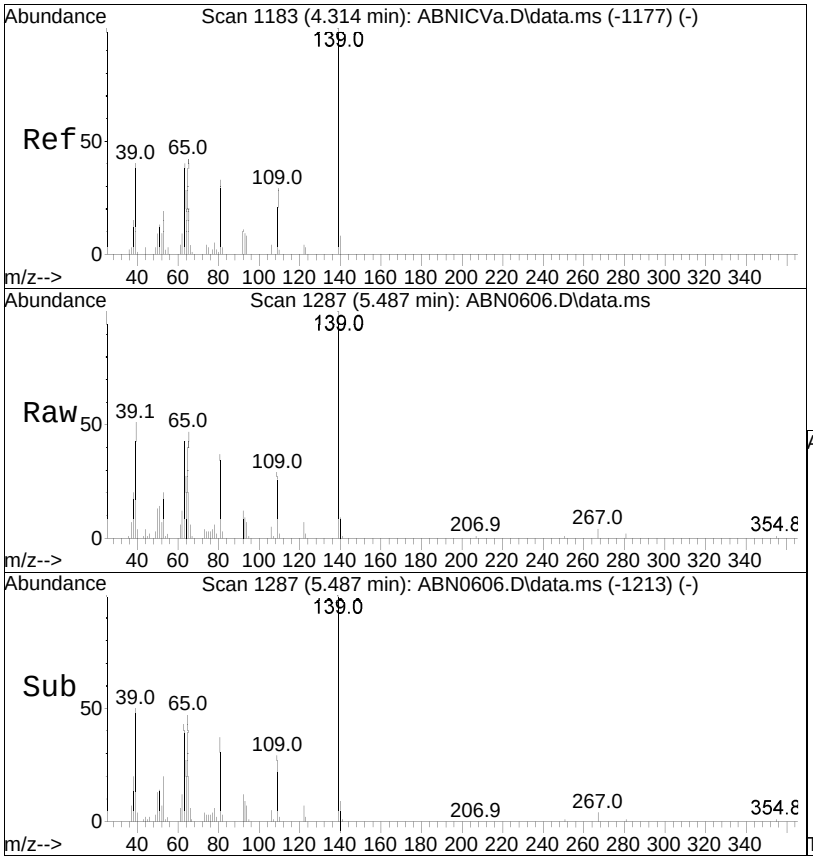


#21
Isophorone
Concen: 5.35 ug/ml
RT: 5.412 min Scan# 1263
Delta R.T. -0.022 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion: 82 Resp: 79533

Ion	Ratio	Lower	Upper
82	100		
138	13.9	14.7	22.1#
95	7.0	5.2	7.8

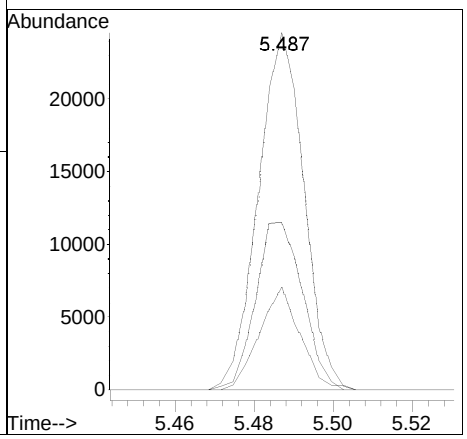


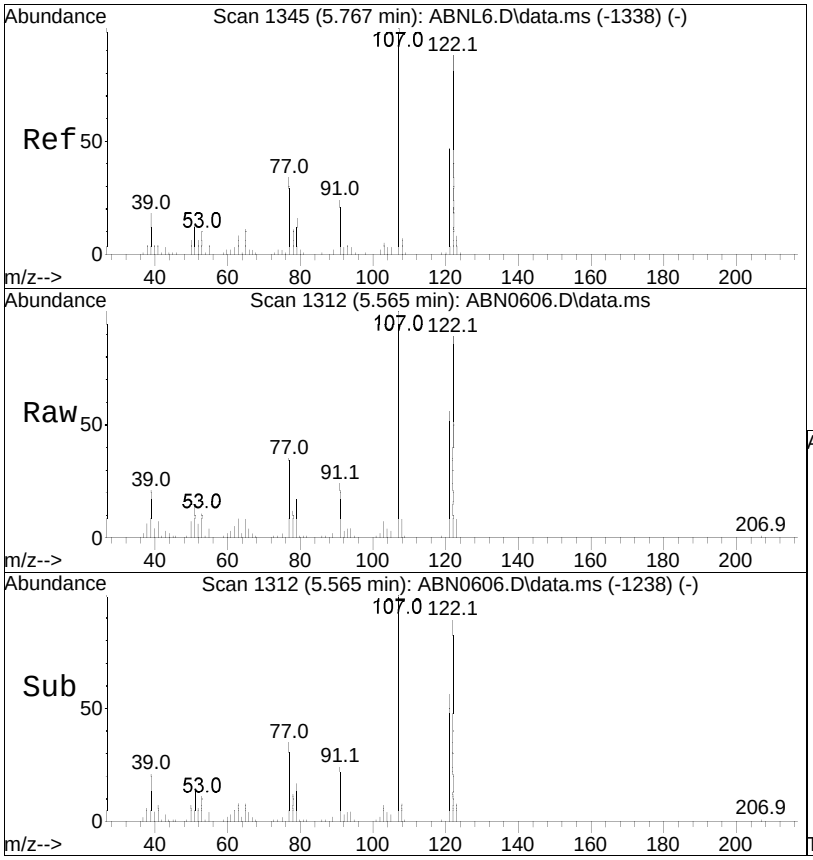


#22
2-Nitrophenol
Concen: 5.58 ug/ml
RT: 5.487 min Scan# 1287
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:139 Resp: 19587

Ion	Ratio	Lower	Upper
139	100		
109	25.9	19.4	29.0
65	48.4	46.1	69.1

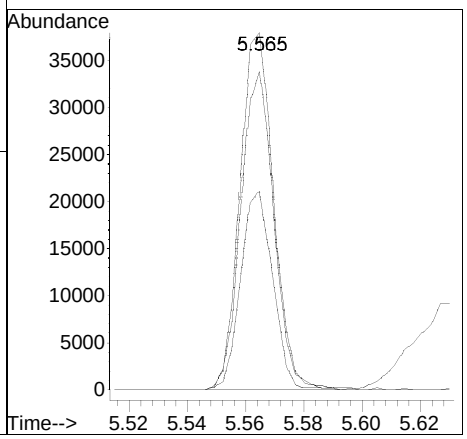


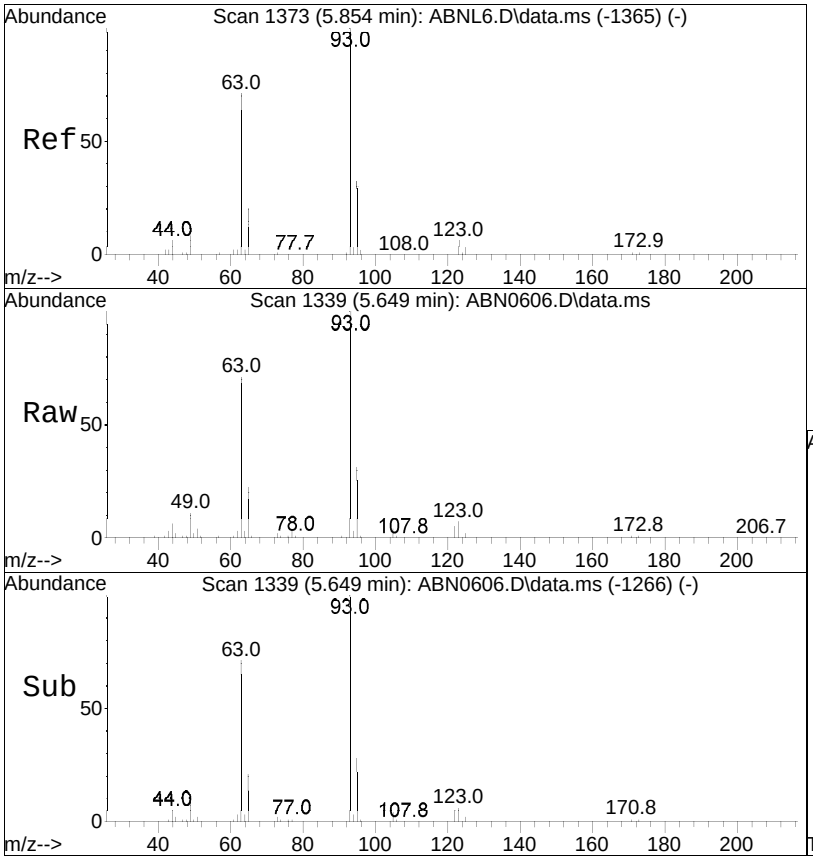


#23
2,4-Dimethylphenol
Concen: 4.43 ug/ml
RT: 5.565 min Scan# 1312
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:107 Resp: 30503

Ion	Ratio	Lower	Upper
107	100		
121	53.1	40.0	60.0
122	87.4	70.2	105.4

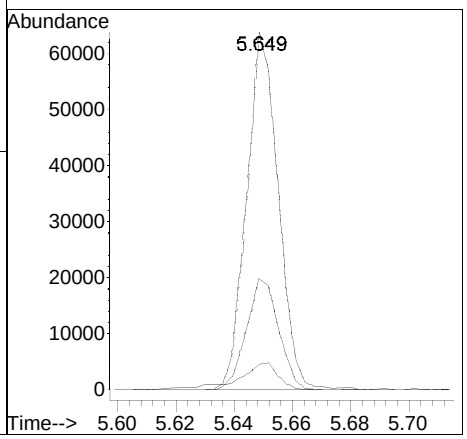


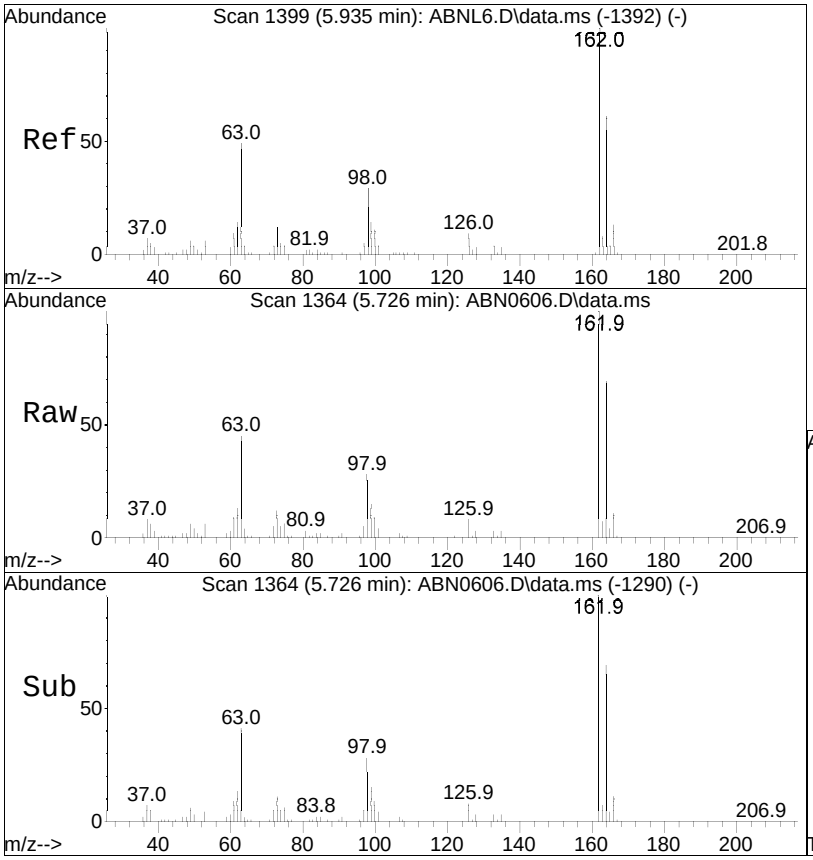


#24
Bis(2-chloroethoxy)methane
Concen: 5.35 ug/ml
RT: 5.649 min Scan# 1339
Delta R.T. -0.022 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion: 93 Resp: 47710

Ion	Ratio	Lower	Upper
93	100		
95	31.9	25.8	38.8
123	10.1	10.1	15.1#

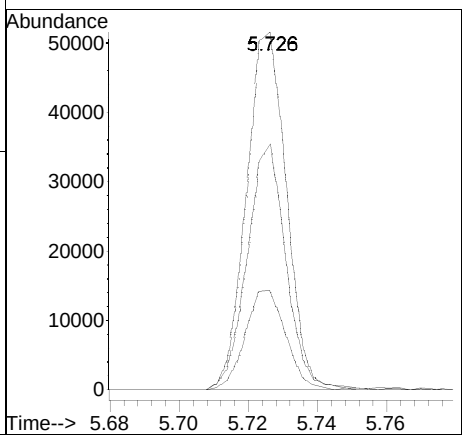


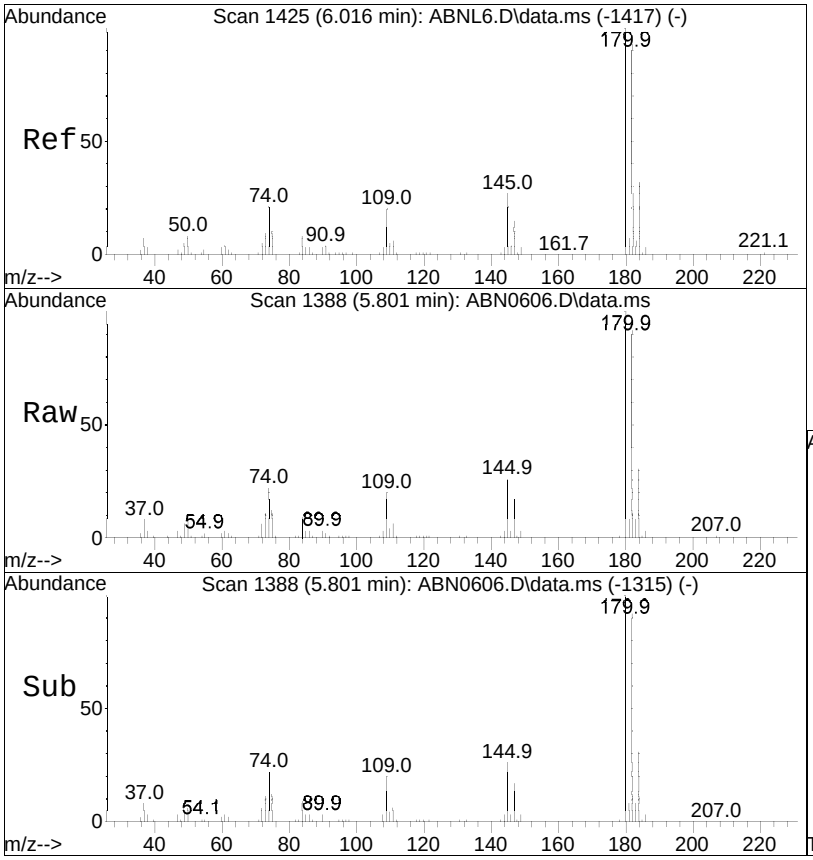


#25
2,4-Dichlorophenol
Concen: 5.16 ug/ml
RT: 5.726 min Scan# 1364
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:162 Resp: 41142

Ion	Ratio	Lower	Upper
162	100		
164	66.6	51.0	76.4
98	28.4	32.2	48.2#

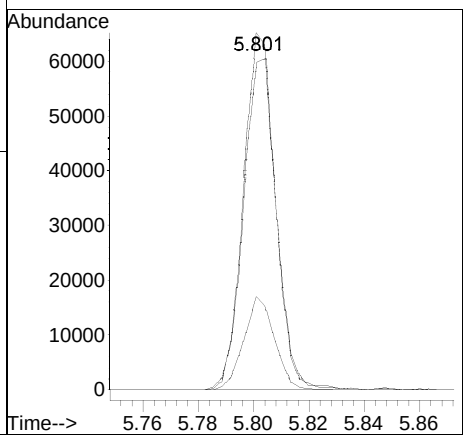


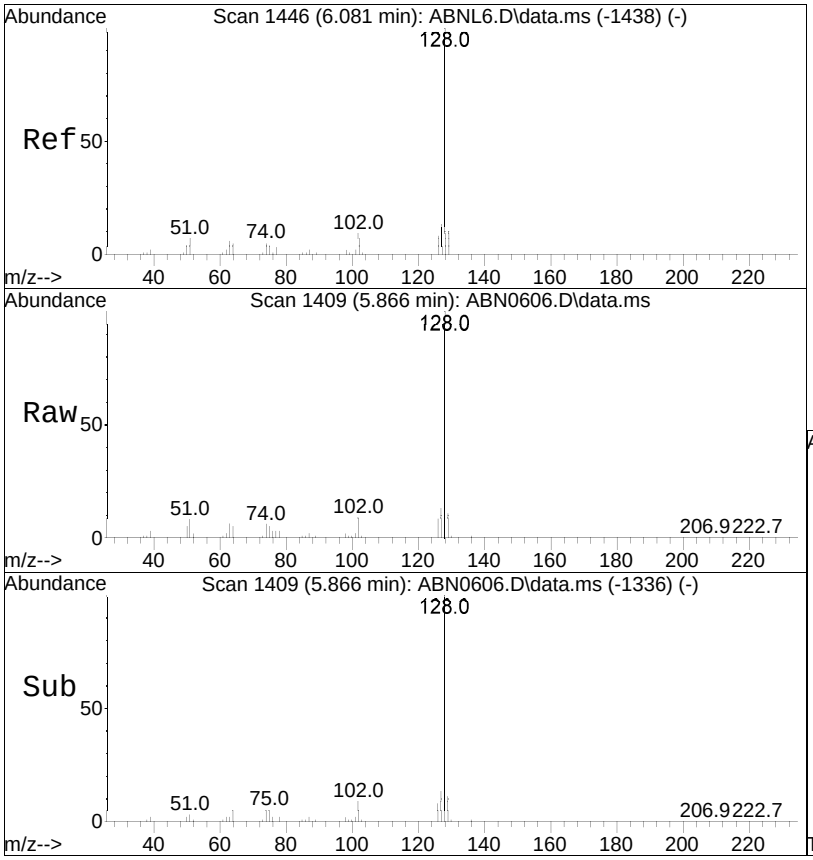


#26
1,2,4-Trichlorobenzene
Concen: 5.45 ug/ml
RT: 5.801 min Scan# 1388
Delta R.T. -0.022 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:180 Resp: 52166

Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.0	114.0
145	25.2	25.7	38.5#

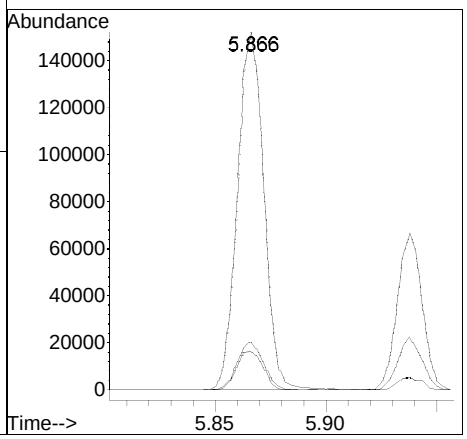


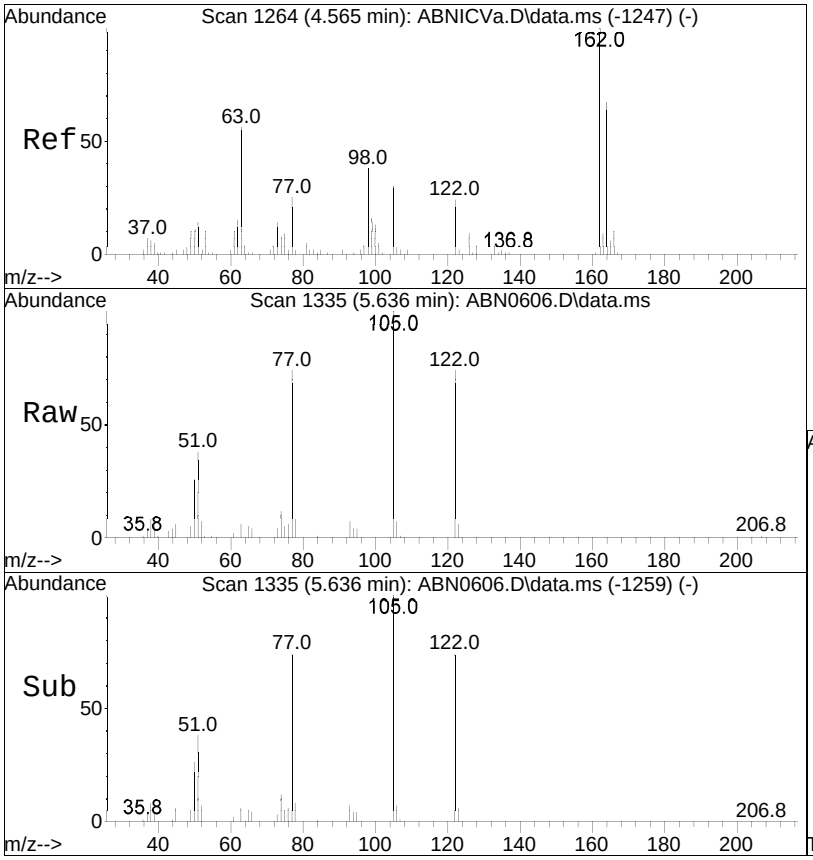


#35
Naphthalene
Concen: 4.89 ug/ml
RT: 5.866 min Scan# 1409
Delta R.T. -0.022 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:128 Resp: 125490

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.7	13.1
127	13.4	10.3	15.5

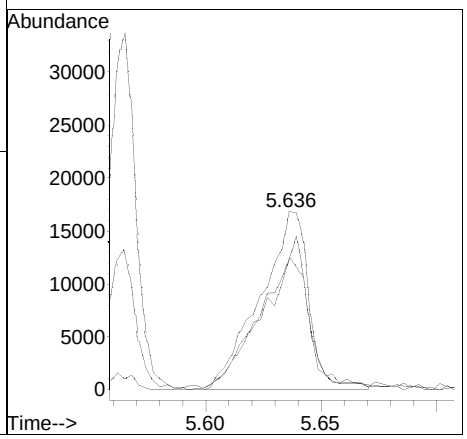


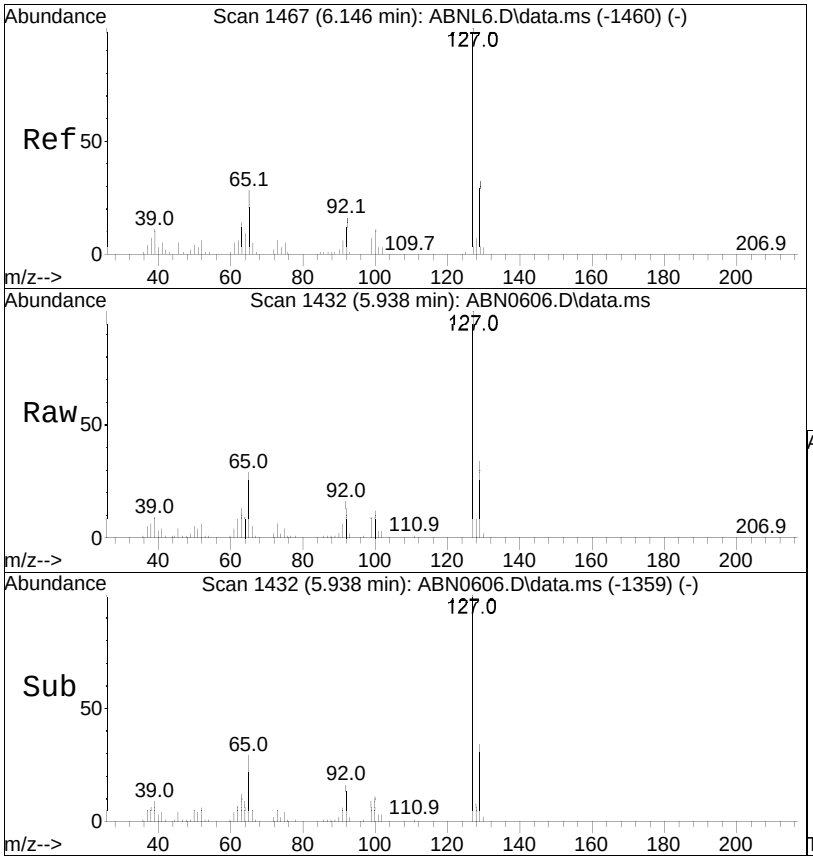


#36
Benzoic Acid
Concen: 5.07 ug/ml
RT: 5.636 min Scan# 1335
Delta R.T. -0.012 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:105 Resp: 24881

Ion	Ratio	Lower	Upper
105	100		
122	82.2	59.9	89.9
77	71.9	60.1	90.1

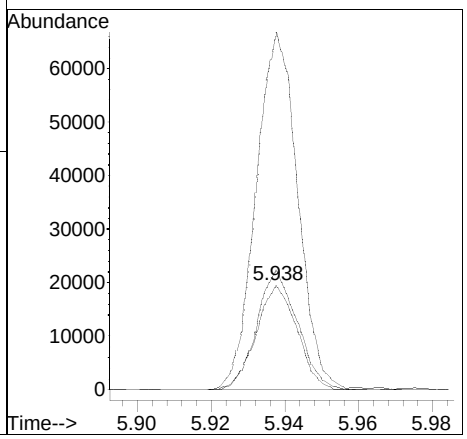


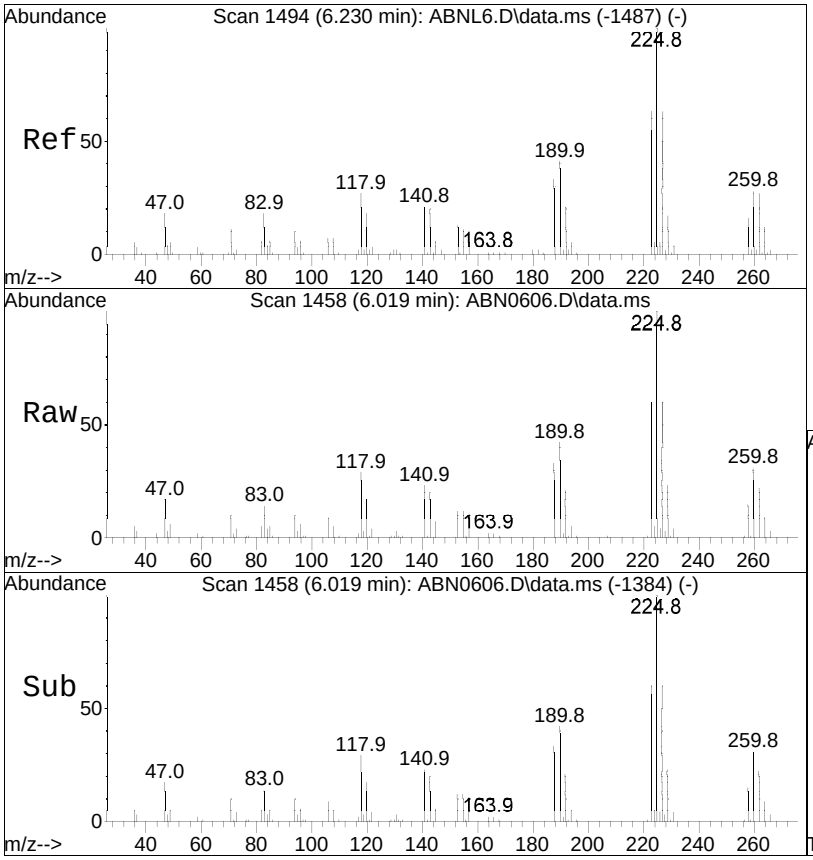


#37
4-Chloroaniline
Concen: 4.79 ug/ml
RT: 5.938 min Scan# 1432
Delta R.T. -0.022 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion: 65 Resp: 14995

Ion	Ratio	Lower	Upper
65	100		
127	347.6	237.6	356.4
129	113.5	76.3	114.5

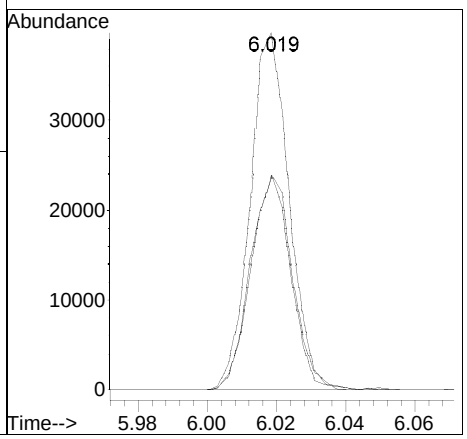


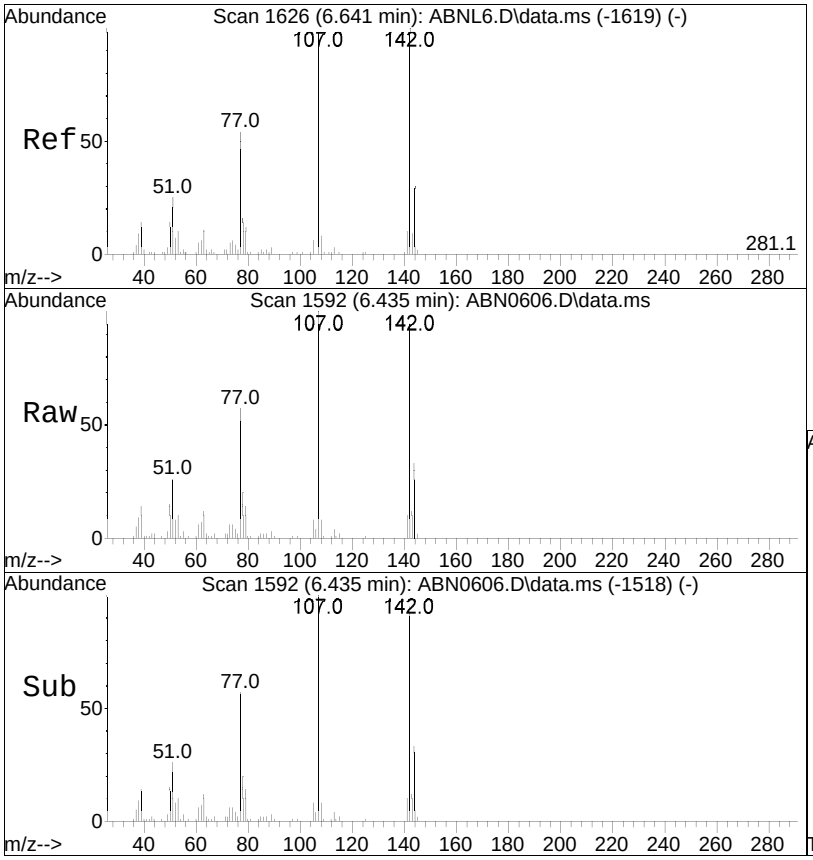


#38
Hexachlorobutadiene
Concen: 5.12 ug/ml
RT: 6.019 min Scan# 1458
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:225 Resp: 30986

Ion	Ratio	Lower	Upper
225	100		
223	62.5	50.3	75.5
227	63.9	52.2	78.2

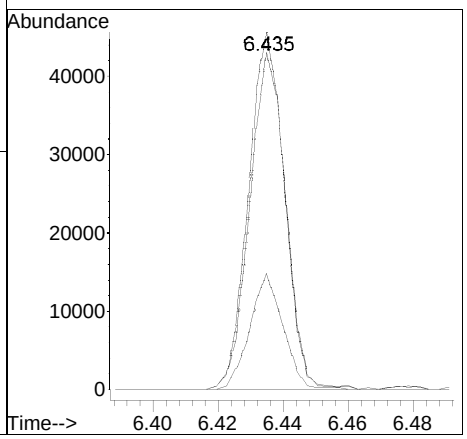


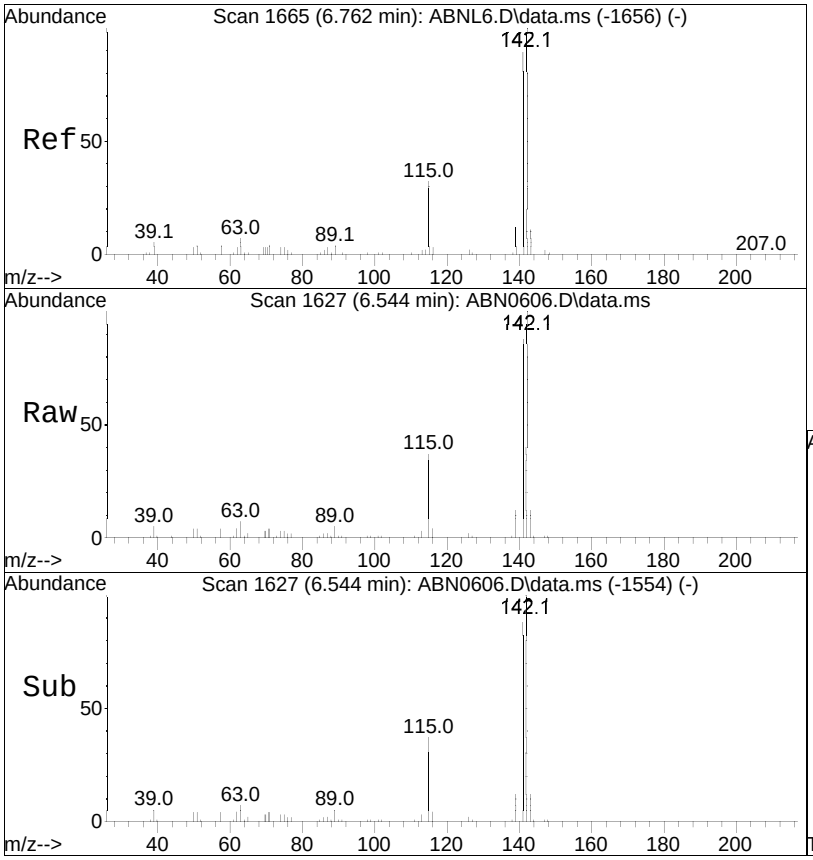


#39
p-Chloro-m-cresol
Concen: 4.99 ug/ml
RT: 6.435 min Scan# 1592
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:107 Resp: 34603

Ion	Ratio	Lower	Upper
107	100		
144	30.2	20.9	31.3
142	94.4	66.1	99.1

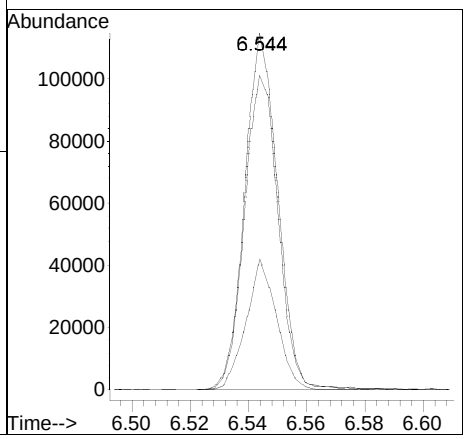


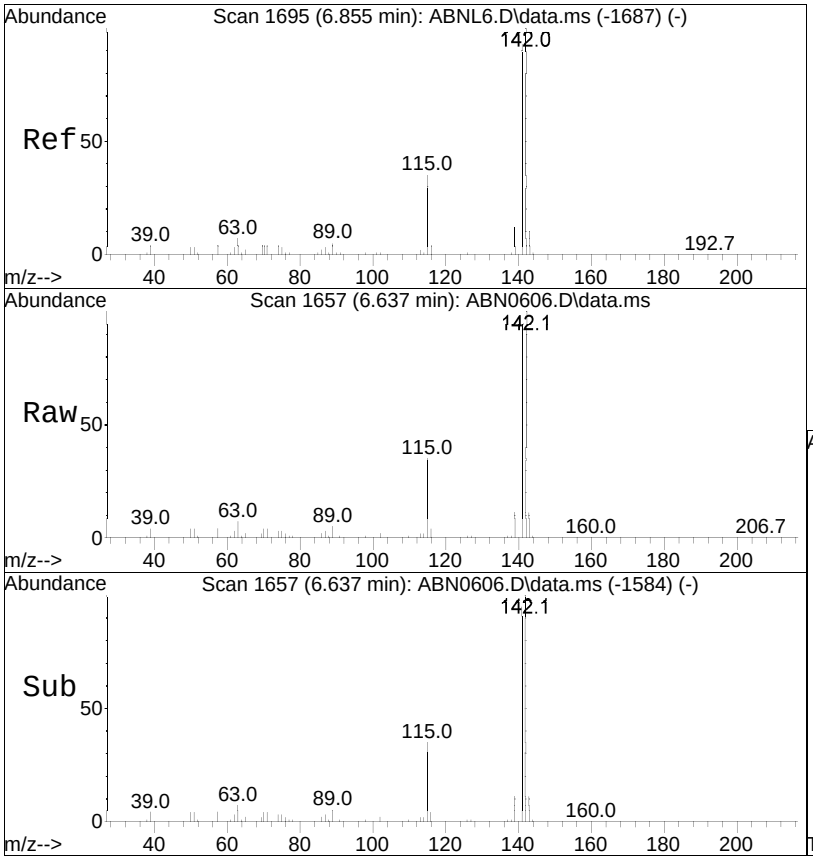


#40
2-Methylnaphthalene
Concen: 4.93 ug/ml
RT: 6.544 min Scan# 1627
Delta R.T. -0.022 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:142 Resp: 90485

Ion	Ratio	Lower	Upper
142	100		
141	90.6	69.6	104.4
115	34.1	26.6	40.0

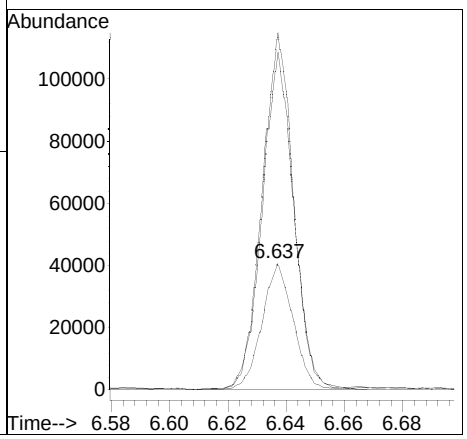


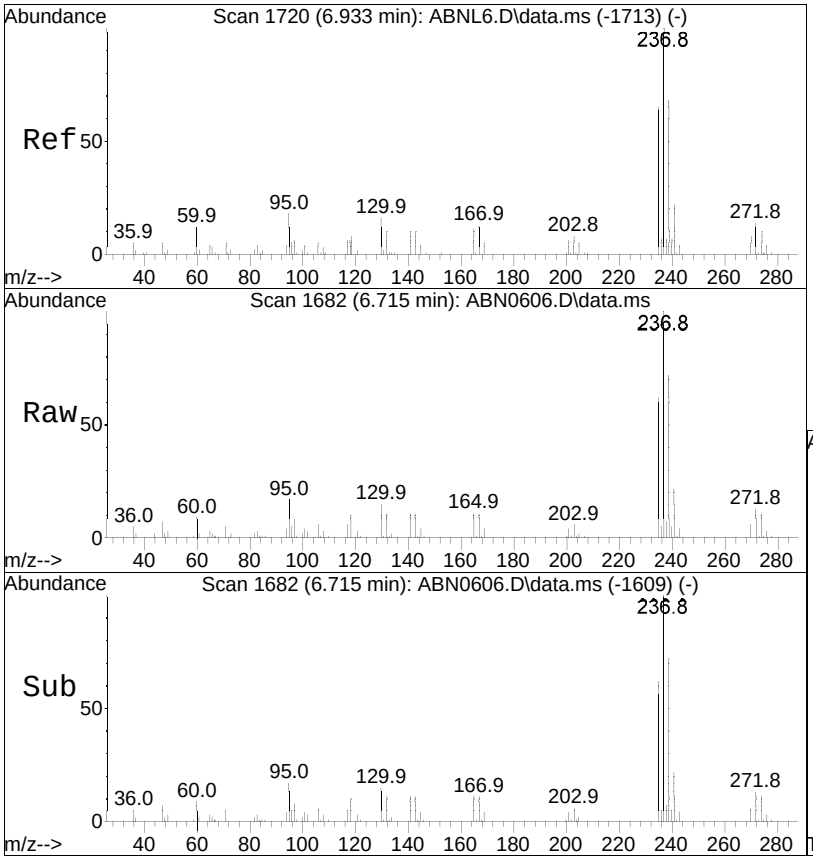


#41
1-Methylnaphthalene
Concen: 5.01 ug/ml
RT: 6.637 min Scan# 1657
Delta R.T. -0.022 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:115 Resp: 30685

Ion	Ratio	Lower	Upper
115	100		
141	263.3	207.8	311.6
142	280.9	226.8	340.2

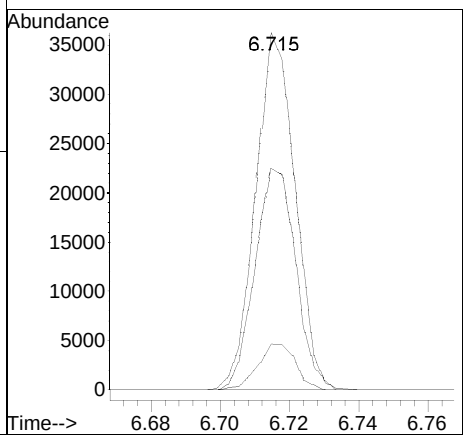


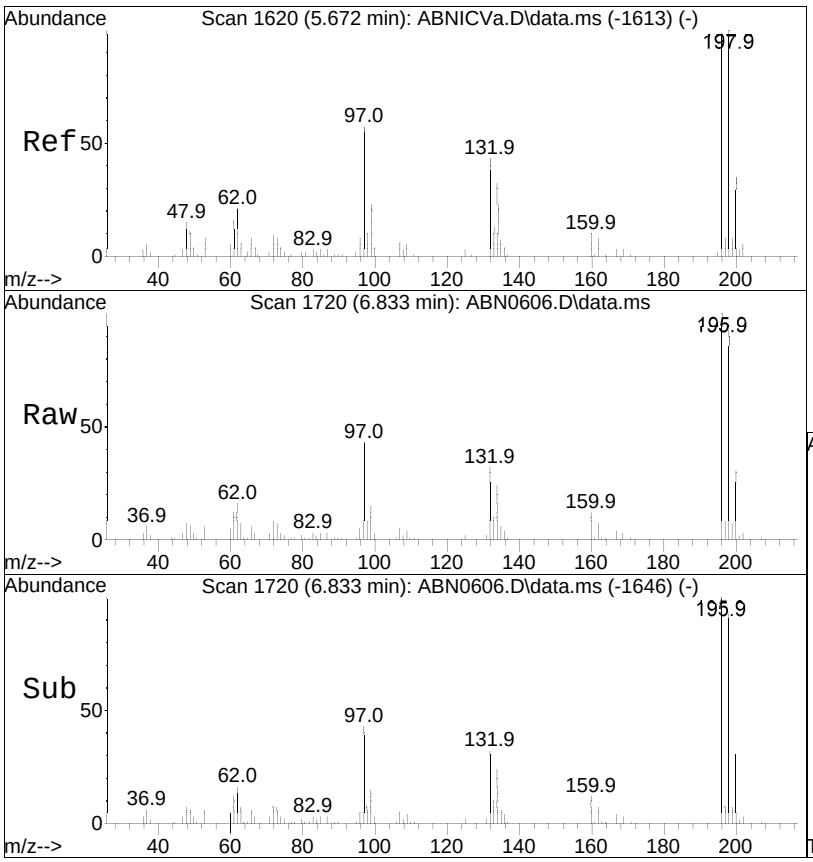


#42
Hexachlorocyclopentadiene
Concen: 4.47 ug/ml
RT: 6.715 min Scan# 1682
Delta R.T. -0.022 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:237 Resp: 28689

Ion	Ratio	Lower	Upper
237	100		
235	64.1	49.7	74.5
272	12.5	9.8	14.6

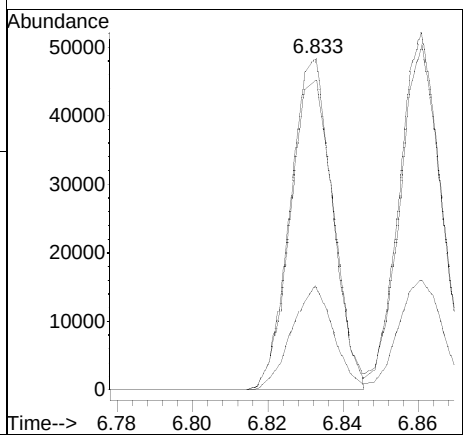


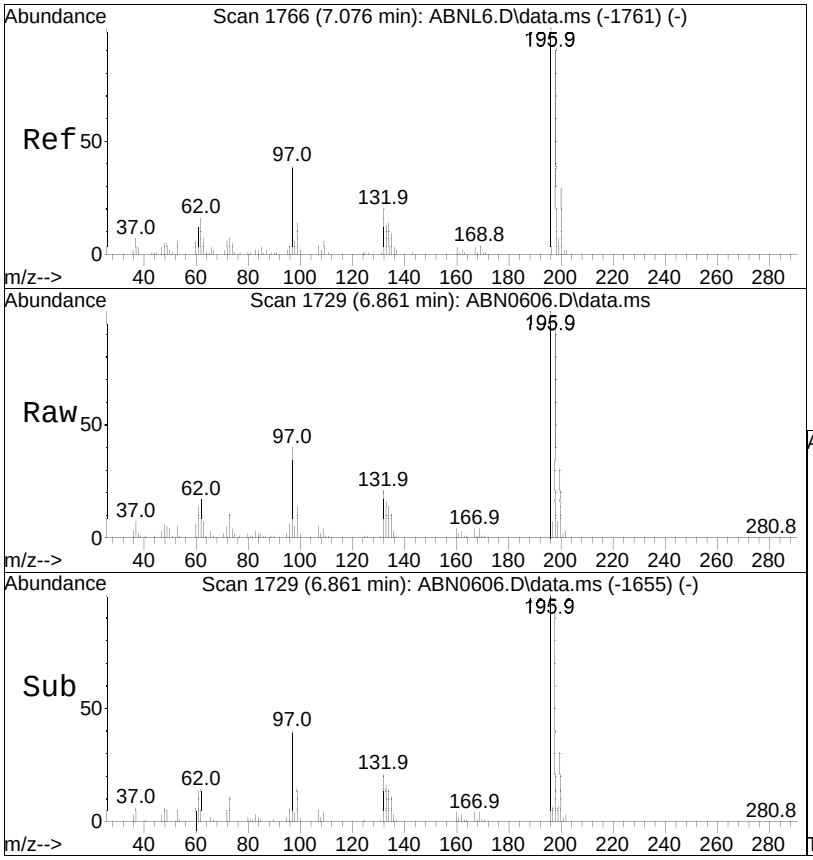


#43
2,4,6-Trichlorophenol
Concen: 5.33 ug/ml M3
RT: 6.833 min Scan# 1720
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:196 Resp: 37829

Ion	Ratio	Lower	Upper
196	100		
198	101.4	77.5	116.3
200	34.4	23.8	35.6

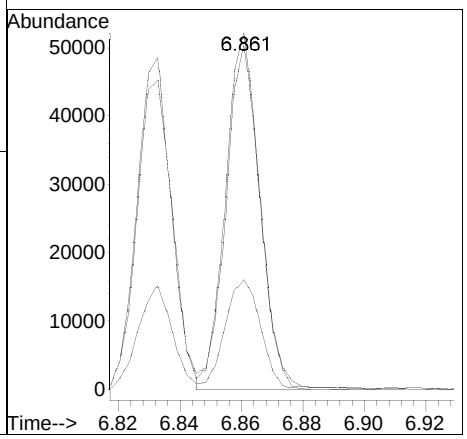


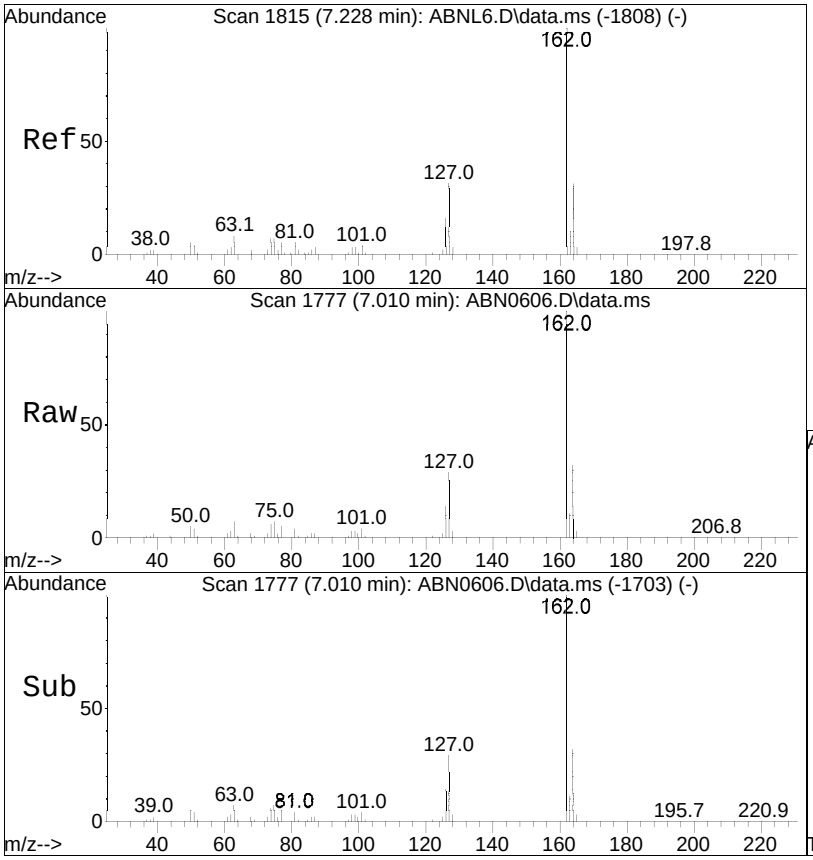


#44
2,4,5-Trichlorophenol
Concen: 5.31 ug/ml
RT: 6.861 min Scan# 1729
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:196 Resp: 40956

Ion	Ratio	Lower	Upper
196	100		
200	31.7	25.4	38.0
198	93.6	78.0	117.0

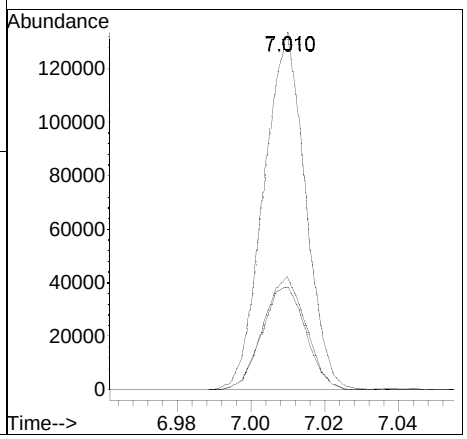


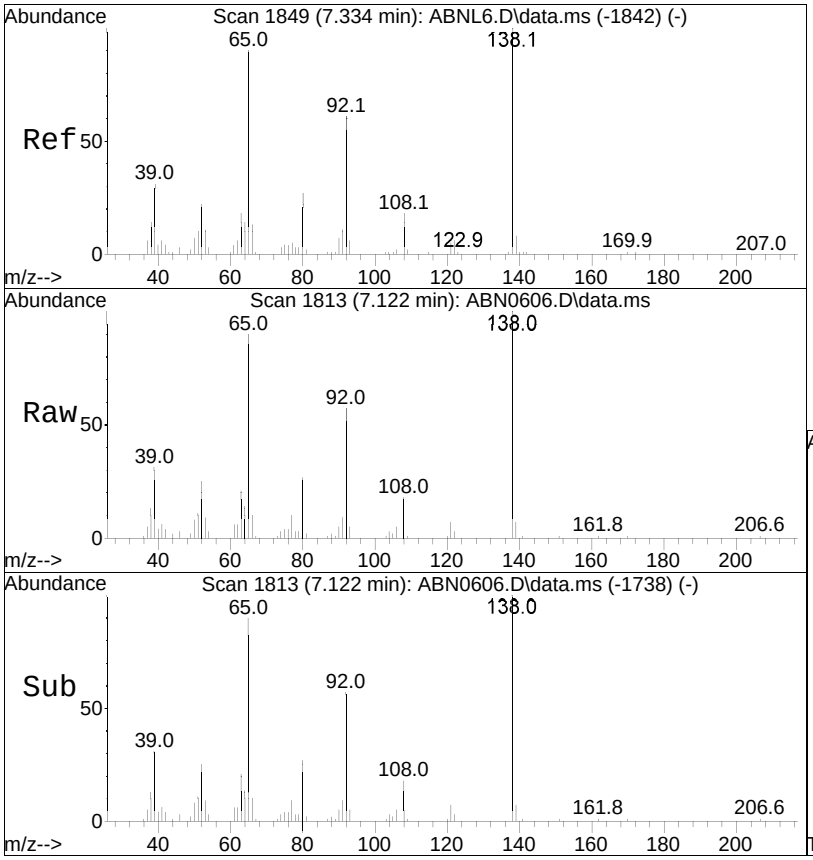


#46
2-Chloronaphthalene
Concen: 5.17 ug/ml
RT: 7.010 min Scan# 1777
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:162 Resp: 104275

Ion	Ratio	Lower	Upper
162	100		
127	30.6	32.2	48.4#
164	32.6	25.7	38.5

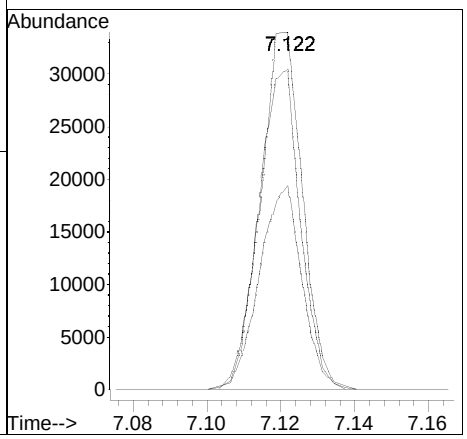


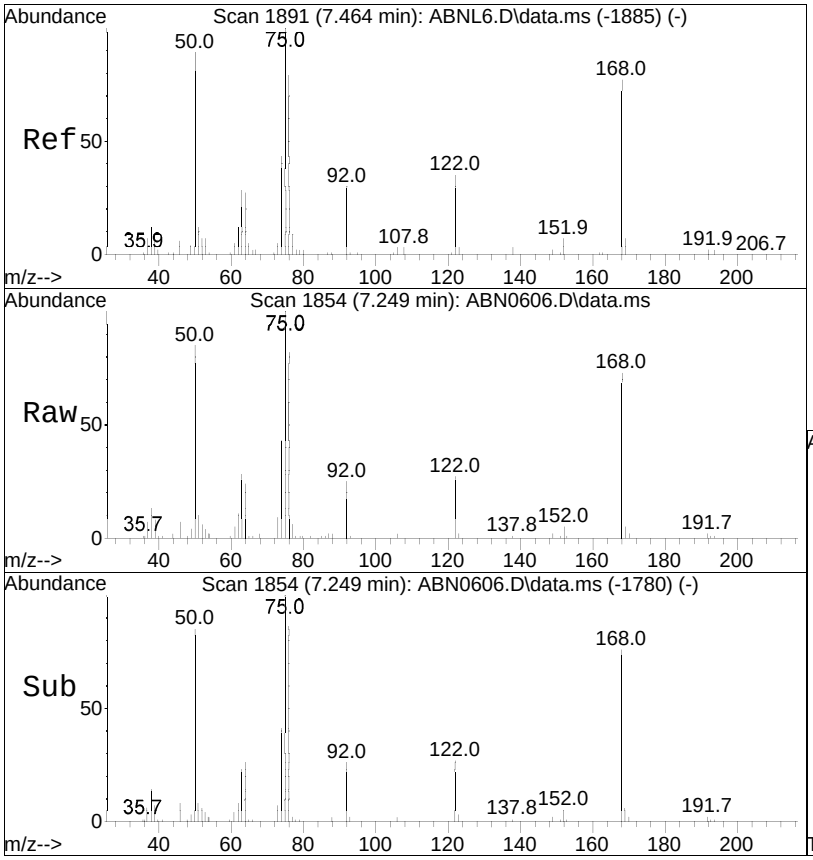


#47
2-Nitroaniline
Concen: 5.59 ug/ml
RT: 7.122 min Scan# 1813
Delta R.T. -0.015 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:138 Resp: 26562

Ion	Ratio	Lower	Upper
138	100		
92	58.2	53.5	80.3
65	89.6	86.3	129.5

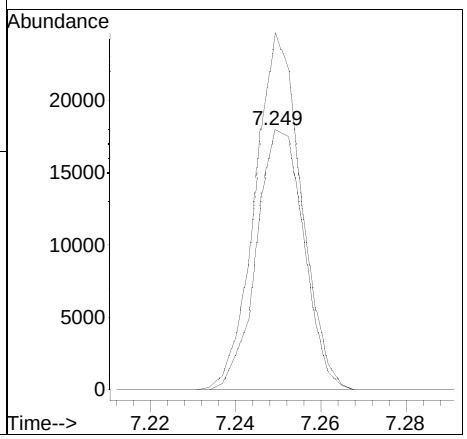


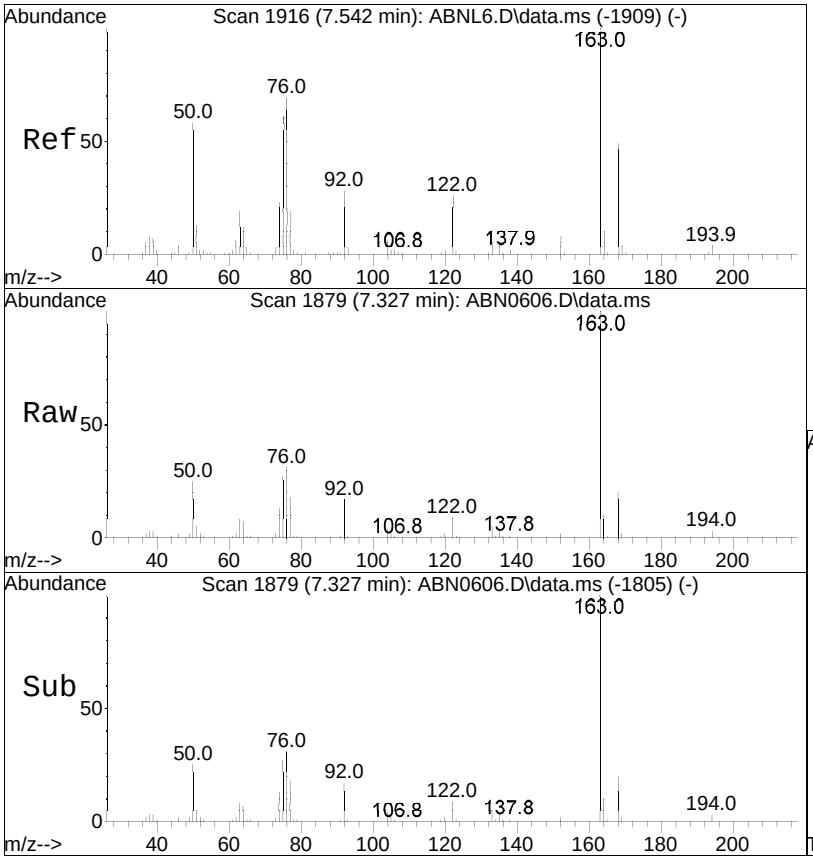


#48
1,4-Dinitrobenzene
Concen: 6.58 ug/ml
RT: 7.249 min Scan# 1854
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:168 Resp: 13918

Ion	Ratio	Lower	Upper
168	100		
75	133.7	121.8	182.8

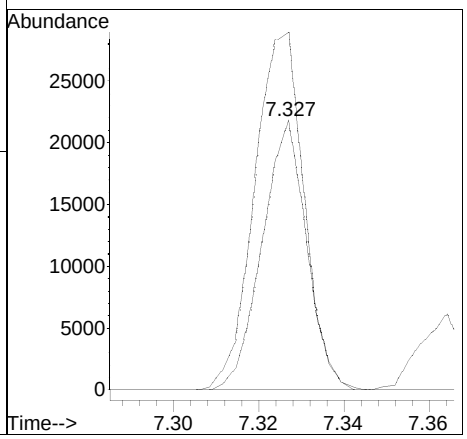


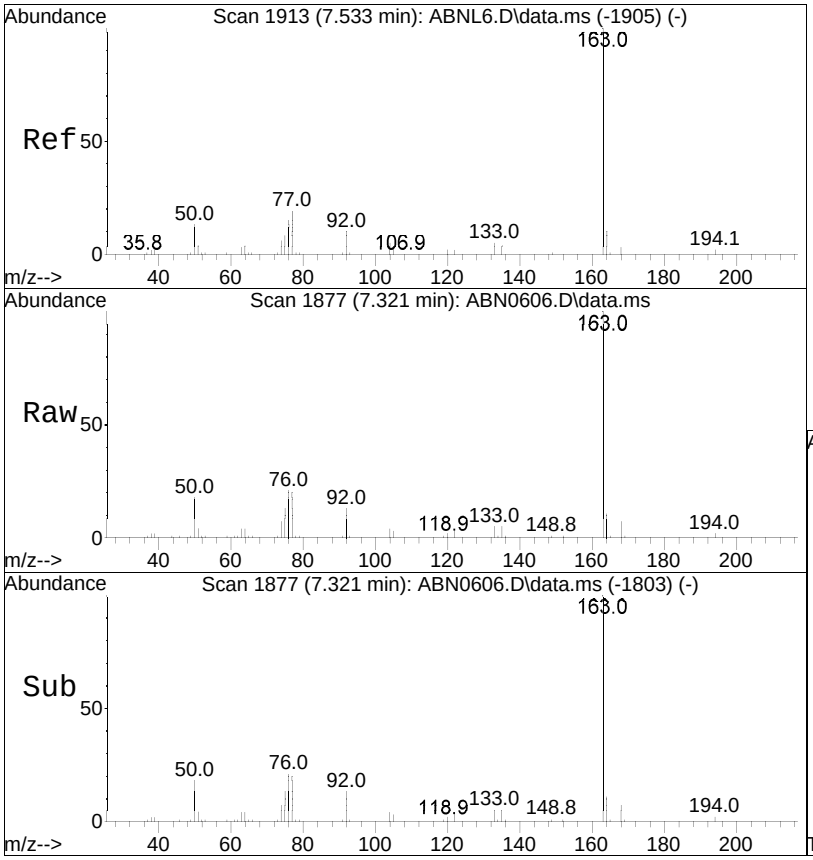


#49
1,3-Dinitrobenzene
Concen: 6.63 ug/ml
RT: 7.327 min Scan# 1879
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:168 Resp: 15716

Ion	Ratio	Lower	Upper
168	100		
75	148.1	22.7	34.1#

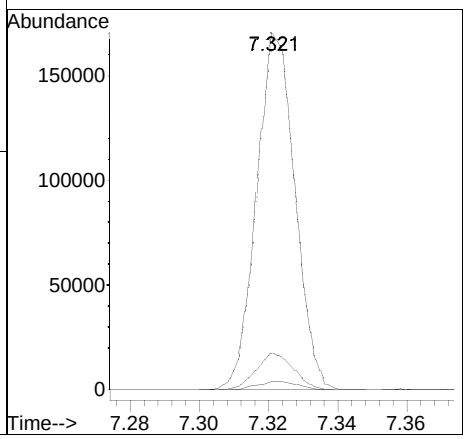


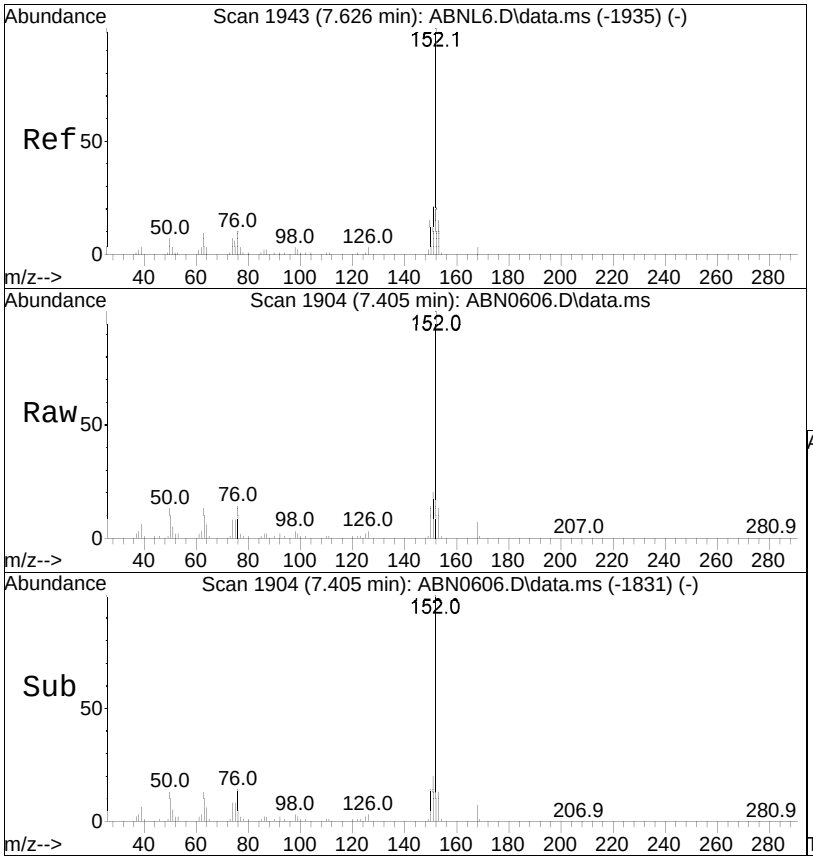


#50
Dimethyl phthalate
Concen: 5.46 ug/ml
RT: 7.321 min Scan# 1877
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:163 Resp: 130049

Ion	Ratio	Lower	Upper
163	100		
194	2.5	3.5	5.3#
164	10.2	7.9	11.9

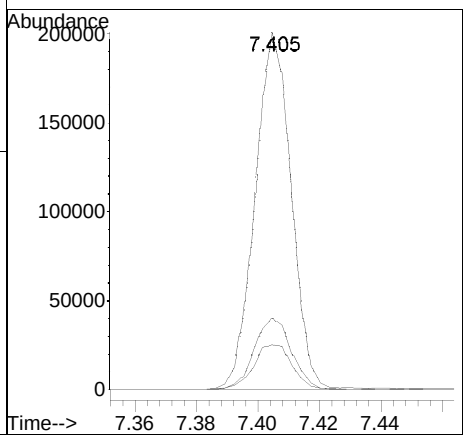


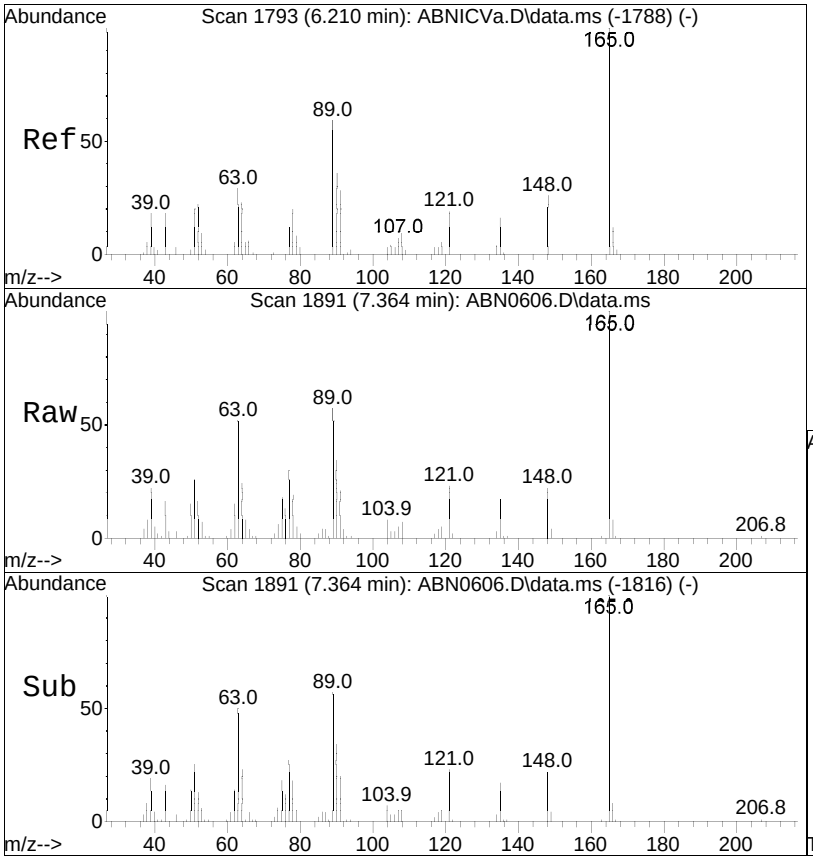


#51
Acenaphthylene
Concen: 5.39 ug/ml
RT: 7.405 min Scan# 1904
Delta R.T. -0.022 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:152 Resp: 161886

Ion	Ratio	Lower	Upper
152	100		
151	20.8	15.8	23.6
153	13.6	10.5	15.7

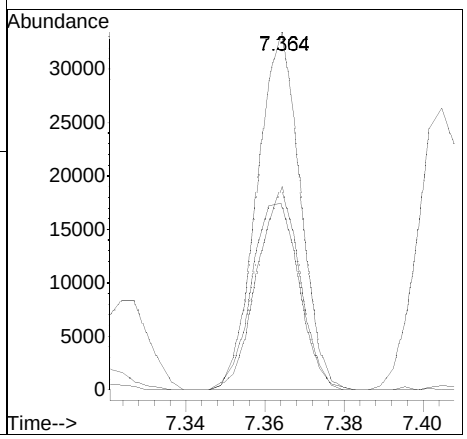


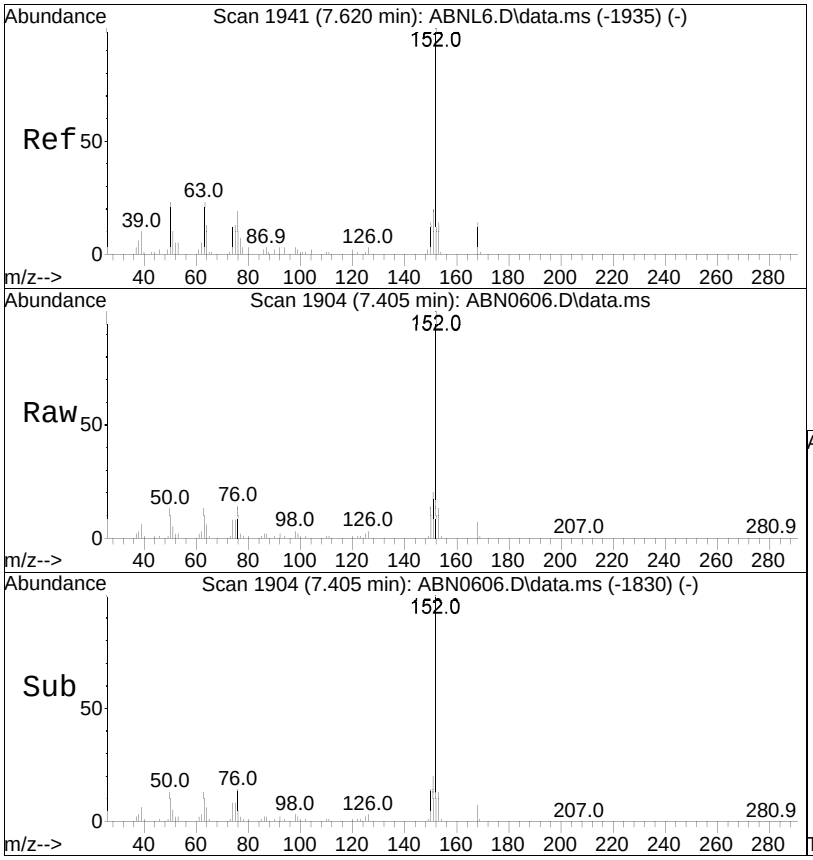


#52
2,6-Dinitrotoluene
Concen: 6.08 ug/ml
RT: 7.364 min Scan# 1891
Delta R.T. -0.015 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:165 Resp: 25453

Ion	Ratio	Lower	Upper
165	100		
89	56.0	54.2	81.2
63	57.5	64.2	96.2#

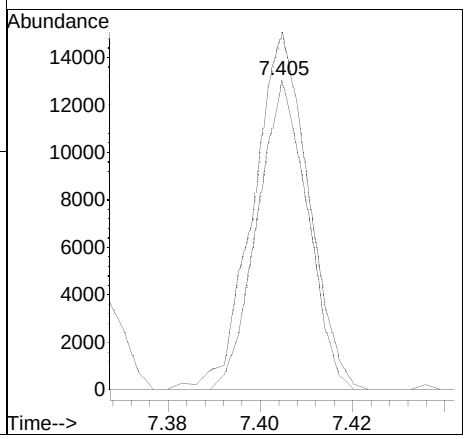


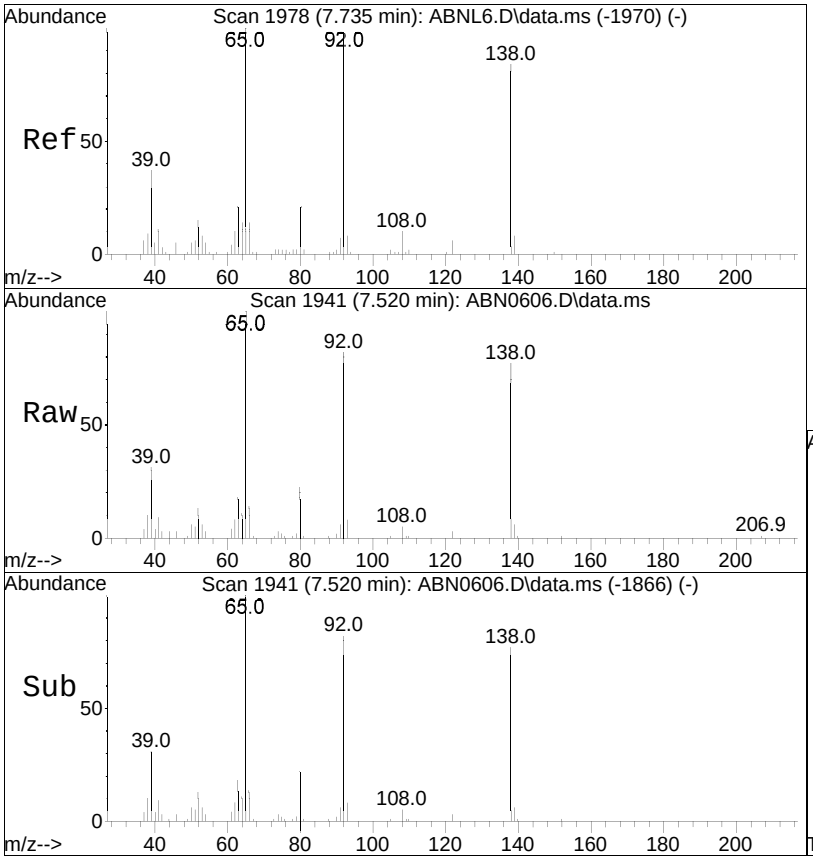


#53
1,2-Dinitrobenzene
Concen: 6.67 ug/ml
RT: 7.405 min Scan# 1904
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:168 Resp: 9792

Ion	Ratio	Lower	Upper
168	100		
75	127.5	30.9	46.3#

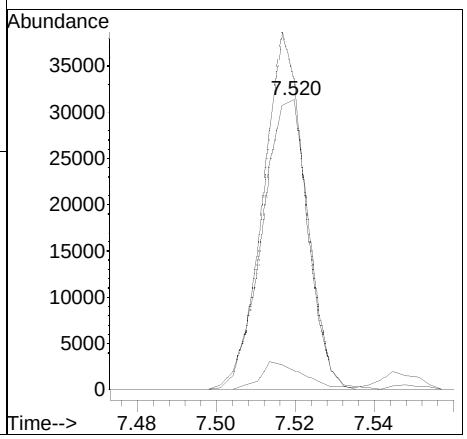


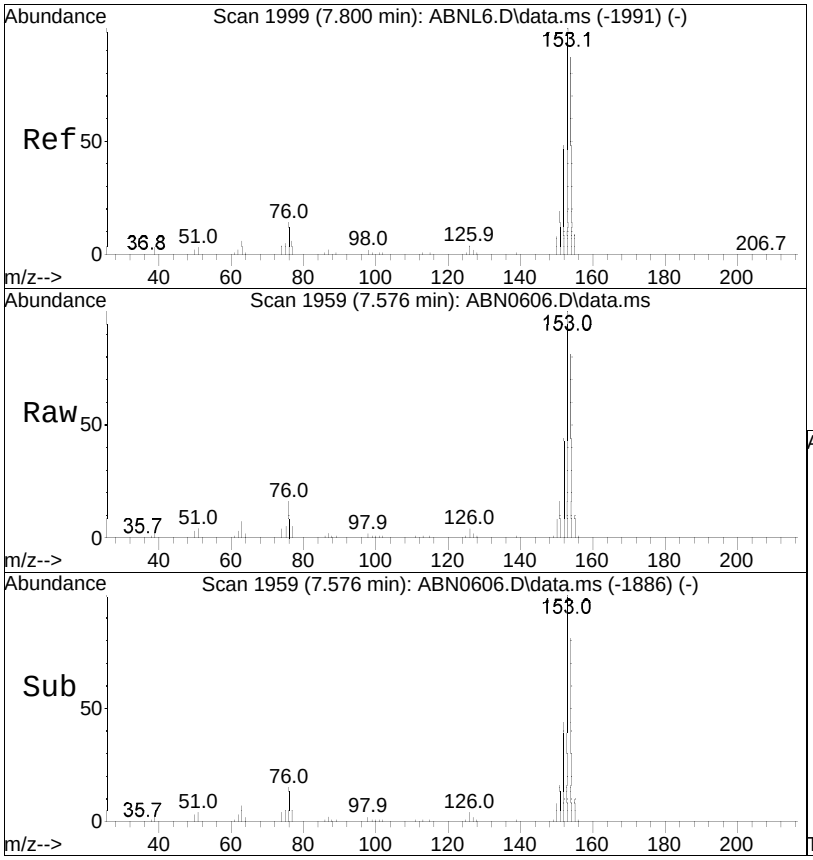


#63
3-Nitroaniline
Concen: 5.94 ug/ml
RT: 7.520 min Scan# 1941
Delta R.T. -0.015 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:138 Resp: 25486

Ion	Ratio	Lower	Upper
138	100		
92	110.6	93.4	140.2
108	8.9	9.5	14.3#

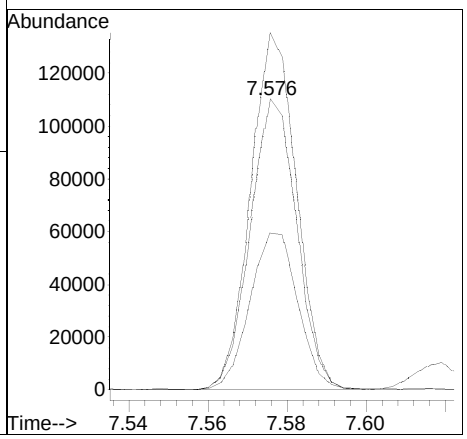


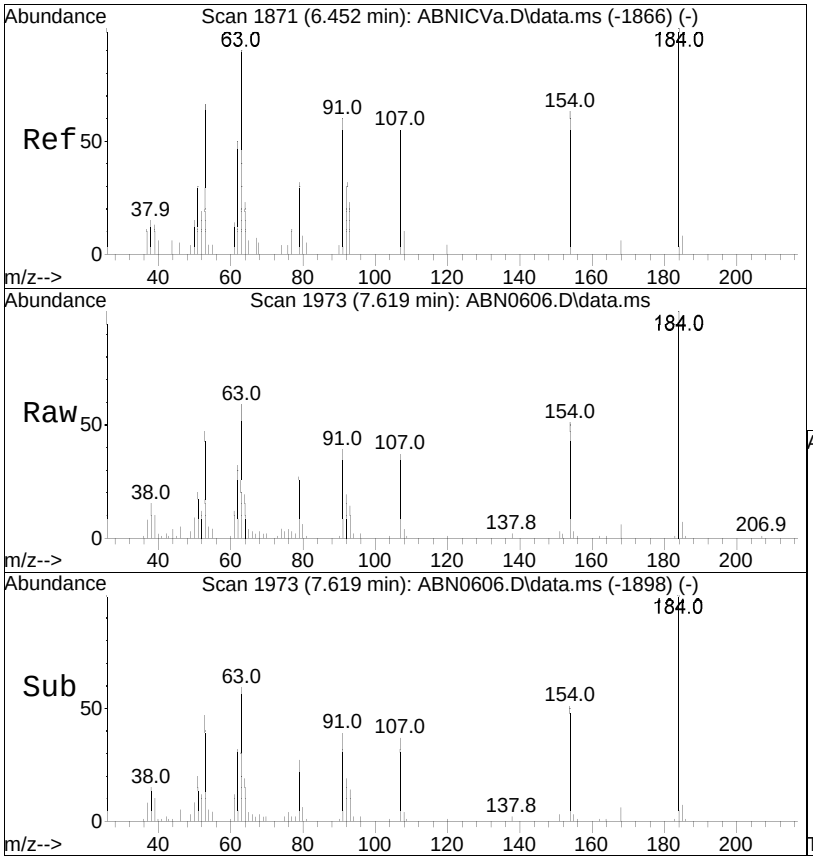


#64
Acenaphthene
Concen: 4.98 ug/ml
RT: 7.576 min Scan# 1959
Delta R.T. -0.022 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:154 Resp: 89676

Ion	Ratio	Lower	Upper
154	100		
153	121.9	85.3	127.9
152	56.4	41.4	62.0

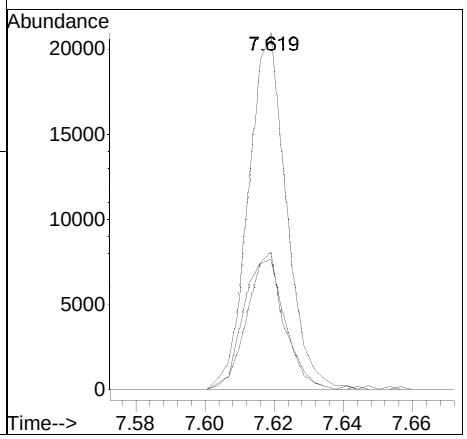


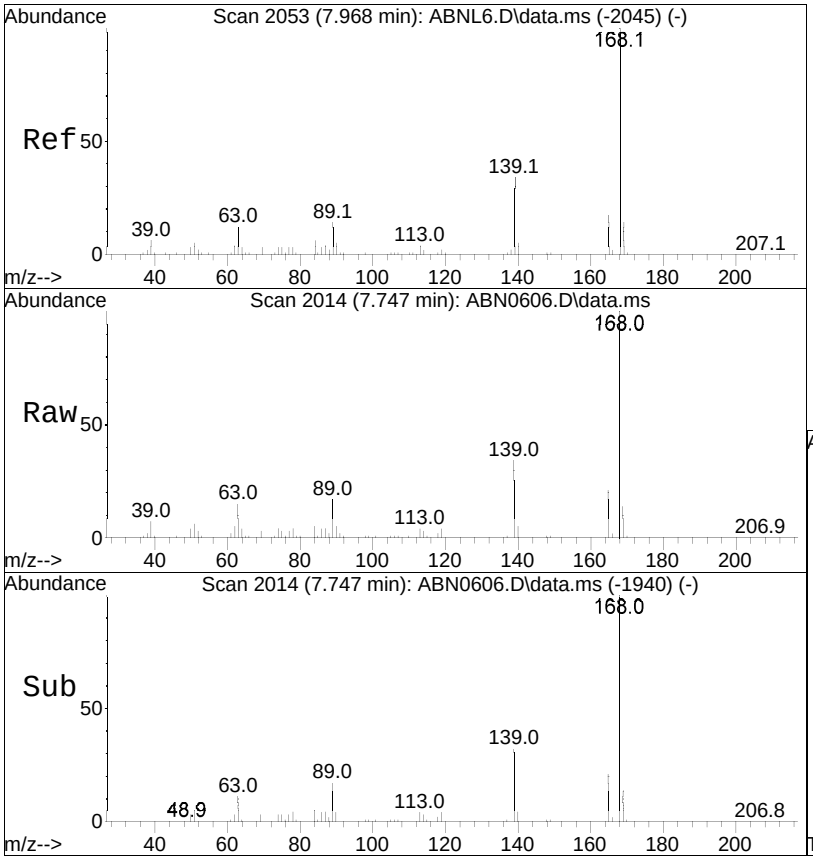


#65
2,4-Dinitrophenol
Concen: 6.45 ug/ml
RT: 7.619 min Scan# 1973
Delta R.T. -0.015 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:184 Resp: 15898

Ion	Ratio	Lower	Upper
184	100		
107	37.7	37.7	56.5
91	40.4	46.3	69.5#

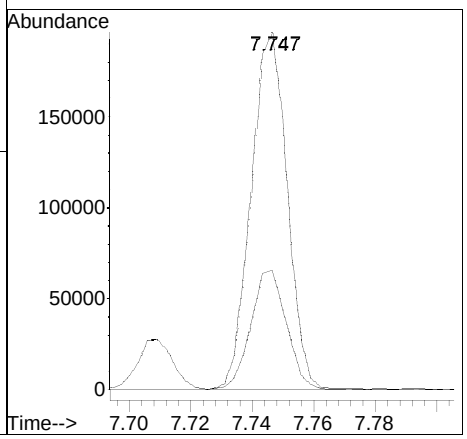


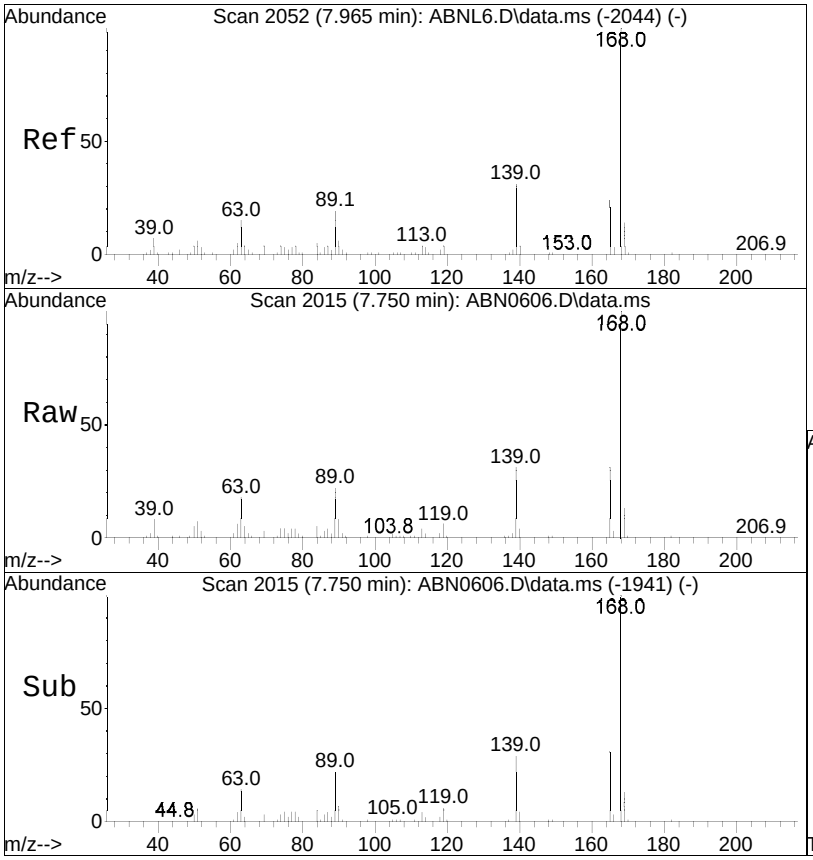


#66
Dibenzofuran
Concen: 5.24 ug/ml
RT: 7.747 min Scan# 2014
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:168 Resp: 158566

Ion	Ratio	Lower	Upper
168	100		
139	33.2	31.4	47.2

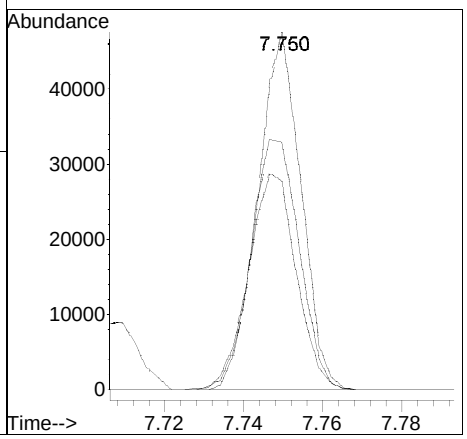


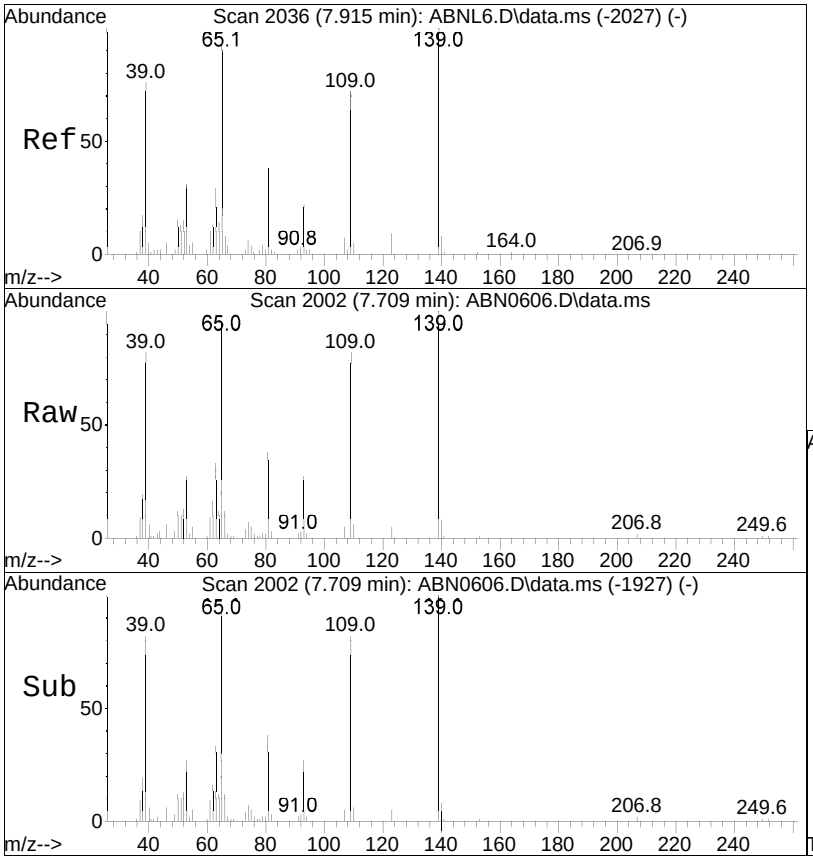


#67
2,4-Dinitrotoluene
Concen: 6.62 ug/ml
RT: 7.750 min Scan# 2015
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:165 Resp: 35911

Ion	Ratio	Lower	Upper
165	100		
89	78.5	72.0	108.0
63	67.0	52.7	79.1

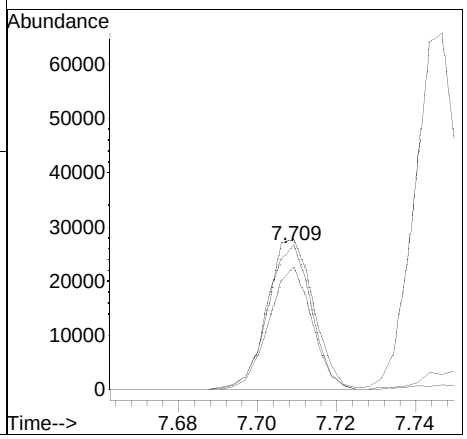


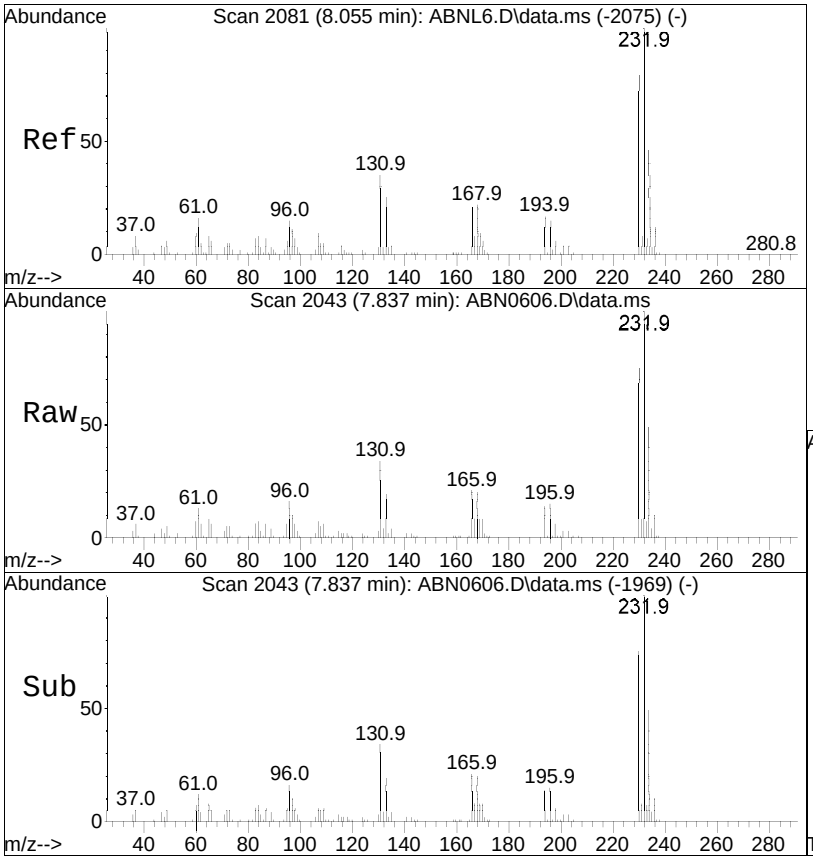


#68
4-Nitrophenol
Concen: 5.59 ug/ml
RT: 7.709 min Scan# 2002
Delta R.T. -0.015 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion: 65 Resp: 20752

Ion	Ratio	Lower	Upper
65	100		
109	82.6	47.4	71.2#
139	107.7	76.6	115.0

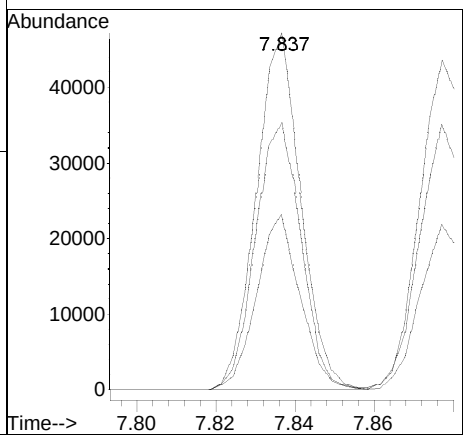


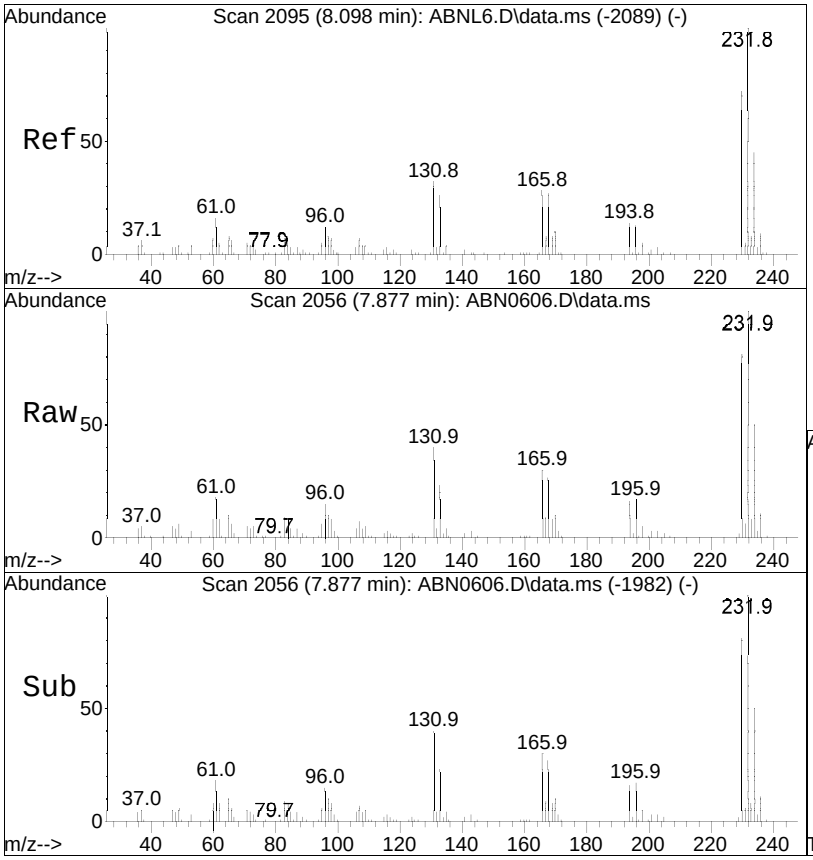


#69
2,3,5,6-Tetrachlorophenol
Concen: 5.54 ug/ml
RT: 7.837 min Scan# 2043
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:232 Resp: 37139

Ion	Ratio	Lower	Upper
232	100		
230	76.5	64.2	96.4
234	48.0	38.1	57.1

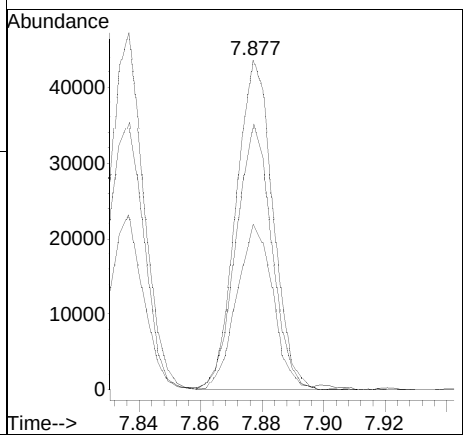


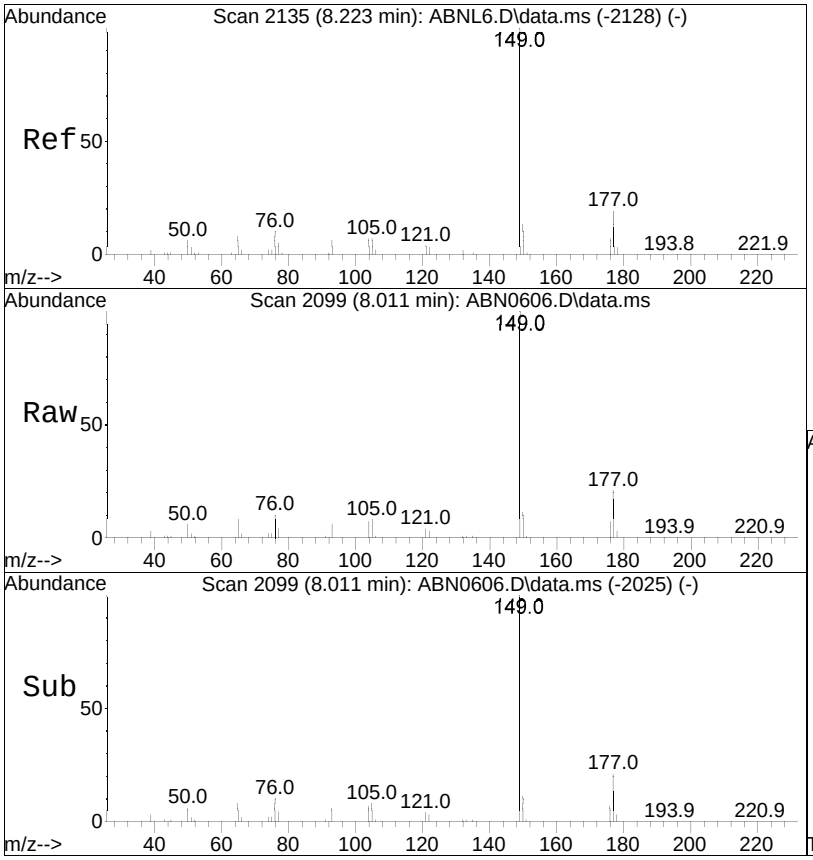


#70
2,3,4,6-Tetrachlorophenol
Concen: 5.69 ug/ml
RT: 7.877 min Scan# 2056
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:232 Resp: 36694

Ion	Ratio	Lower	Upper
232	100		
230	77.1	61.8	92.8
234	49.4	36.2	54.2

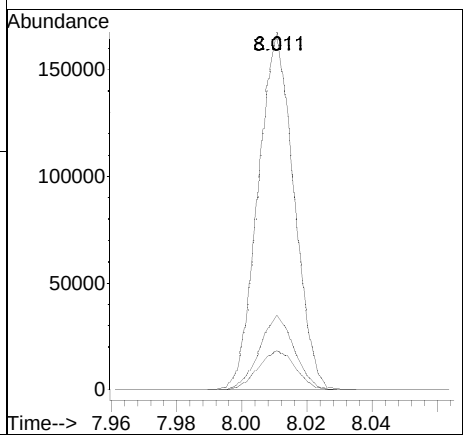


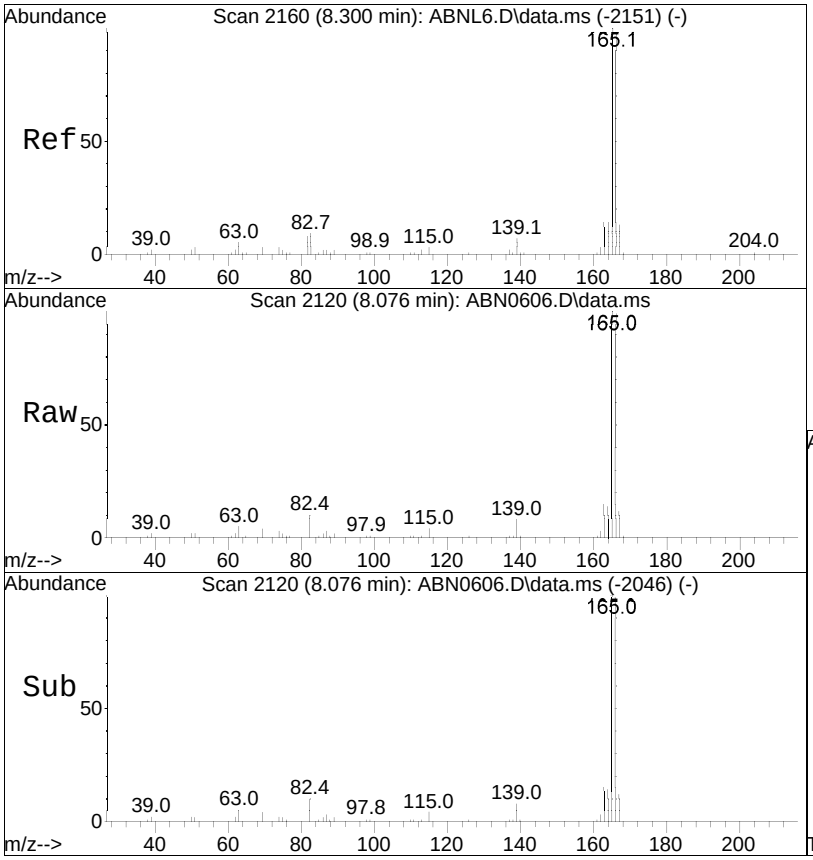


#71
Diethyl phthalate
Concen: 5.12 ug/ml
RT: 8.011 min Scan# 2099
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:149 Resp: 126556

Ion	Ratio	Lower	Upper
149	100		
177	20.5	16.1	24.1
150	11.6	9.4	14.2

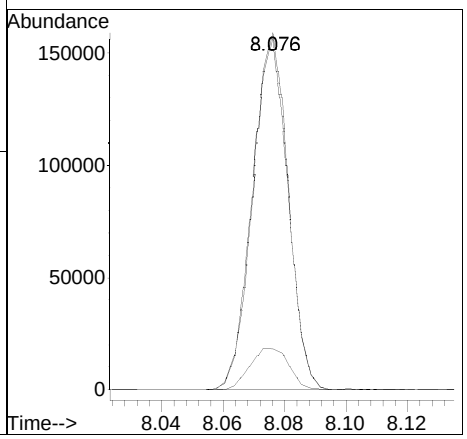


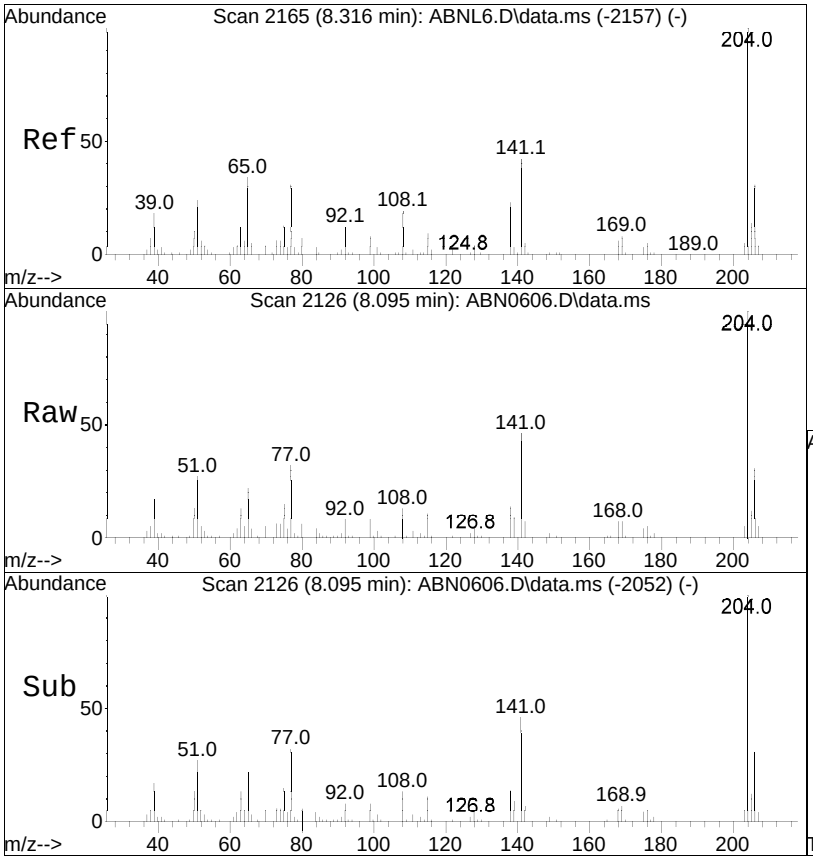


#72
Fluorene
Concen: 5.19 ug/ml
RT: 8.076 min Scan# 2120
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:166 Resp: 124641

Ion	Ratio	Lower	Upper
166	100		
165	102.8	76.2	114.2
167	13.3	10.6	15.8

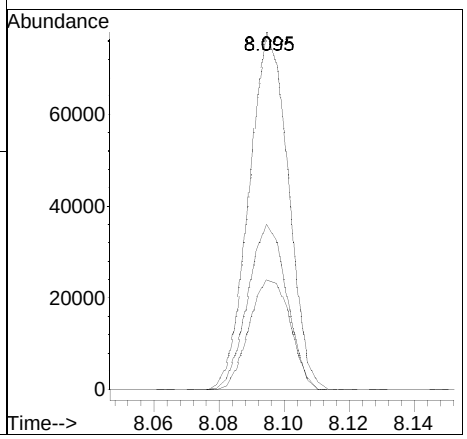


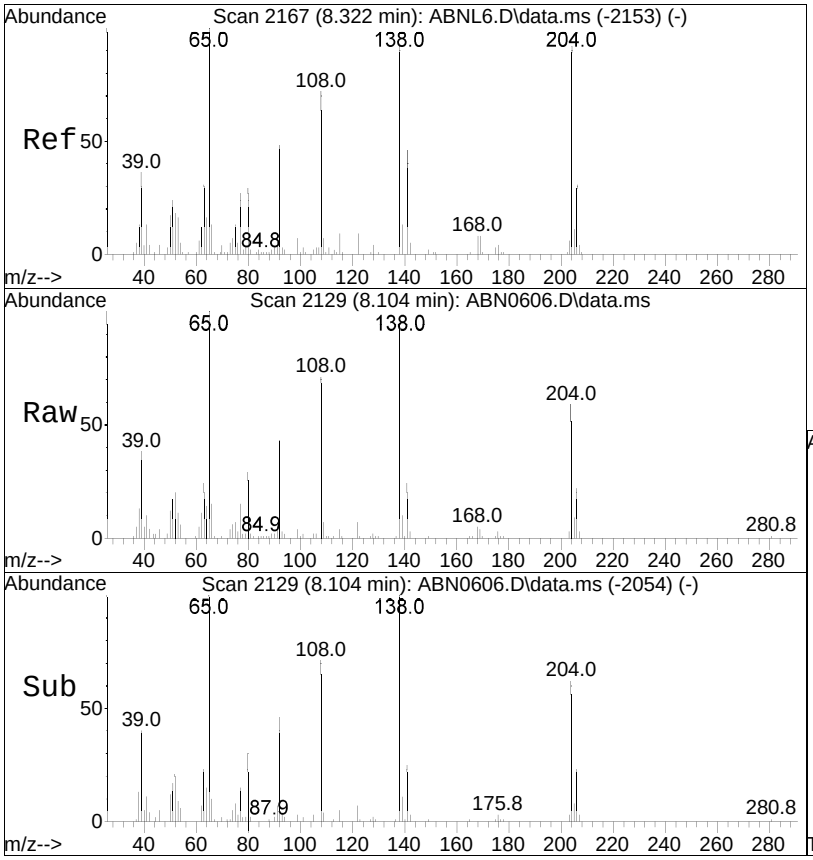


#73
4-Chlorophenyl phenyl ether
Concen: 5.09 ug/ml
RT: 8.095 min Scan# 2126
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:204 Resp: 64932

Ion	Ratio	Lower	Upper
204	100		
206	32.5	25.8	38.6
141	46.0	53.6	80.4#

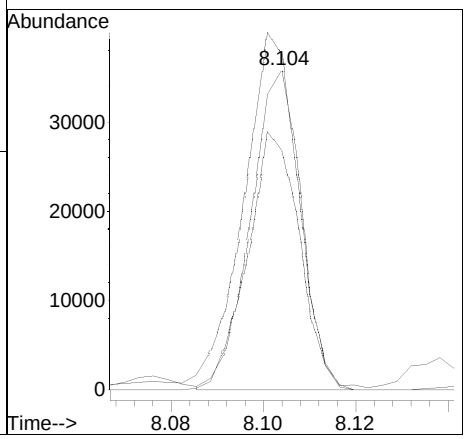


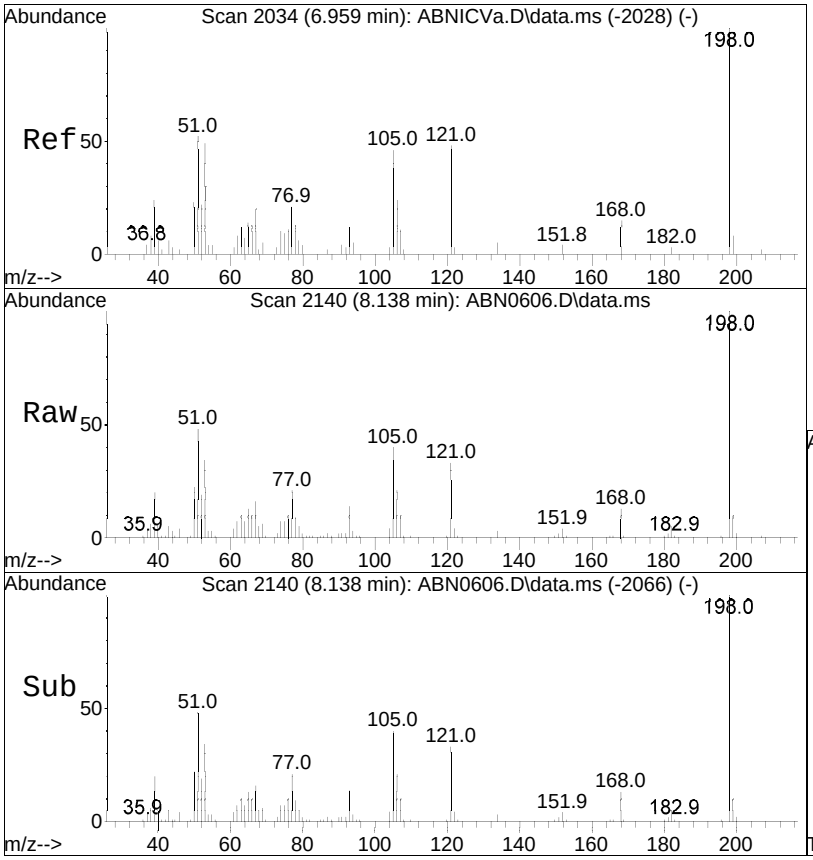


#74
4-Nitroaniline
Concen: 5.96 ug/ml
RT: 8.104 min Scan# 2129
Delta R.T. -0.015 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:138 Resp: 27233

Ion	Ratio	Lower	Upper
138	100		
108	82.9	52.1	78.1#
65	123.9	115.0	172.6

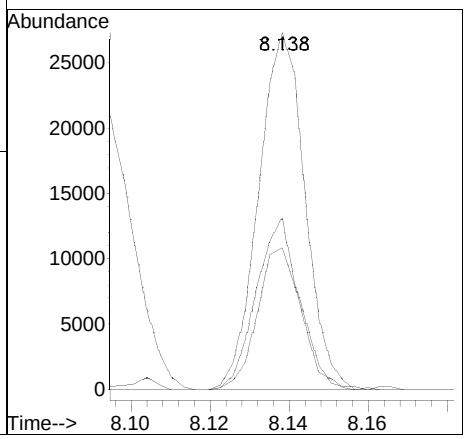


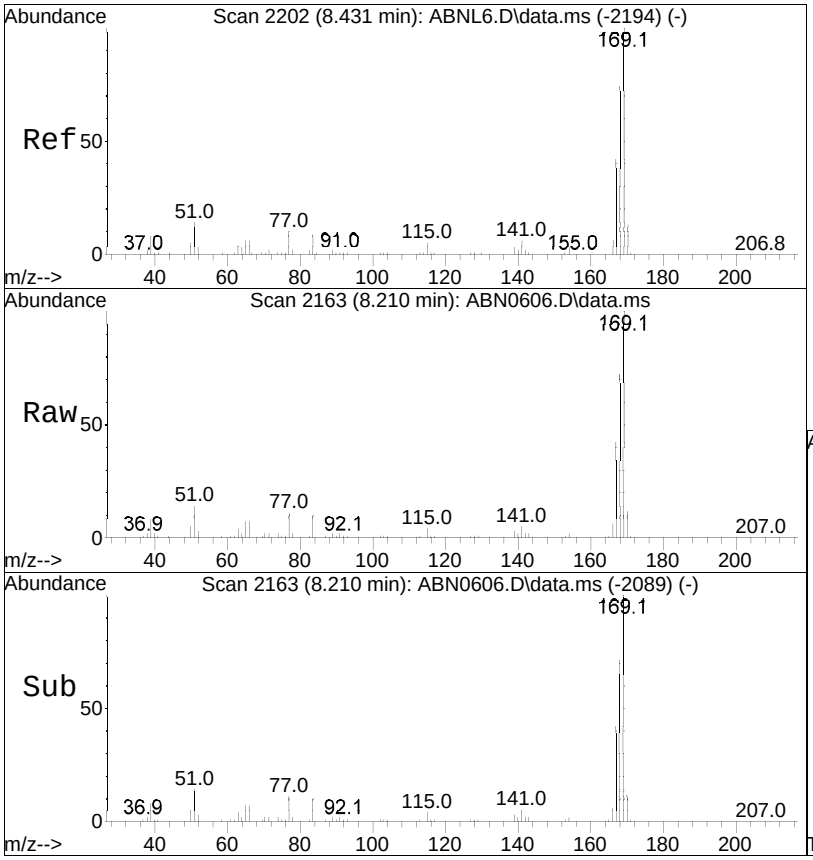


#75
4,6-Dinitro-o-cresol
Concen: 6.67 ug/ml
RT: 8.138 min Scan# 2140
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:198 Resp: 22189

Ion	Ratio	Lower	Upper
198	100		
51	45.0	76.0	114.0#
105	37.8	45.6	68.4#

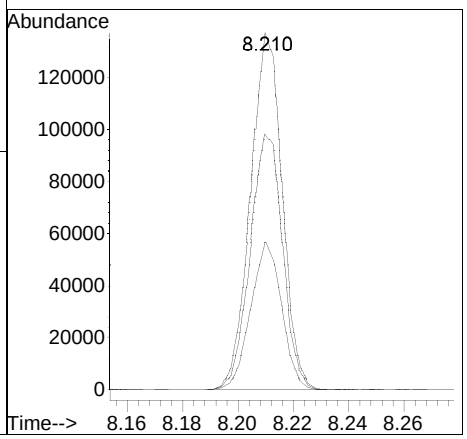


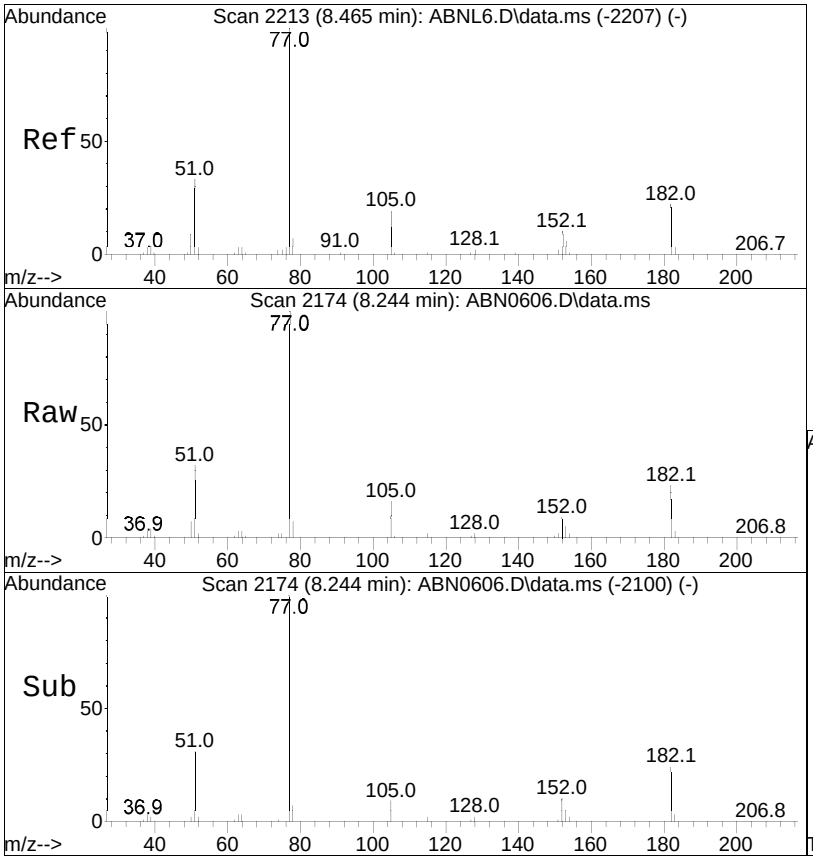


#76
NDPA/DPA
Concen: 5.25 ug/ml
RT: 8.210 min Scan# 2163
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:169 Resp: 108818

Ion	Ratio	Lower	Upper
169	100		
168	73.3	54.0	81.0
167	40.7	28.6	42.8

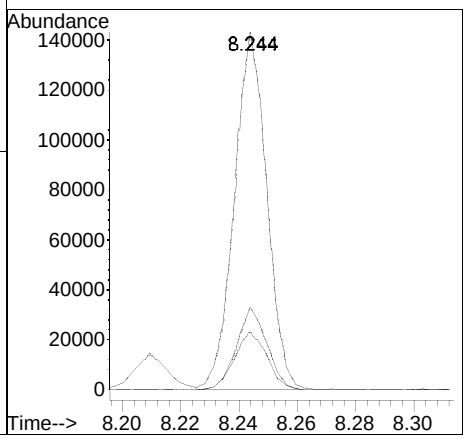


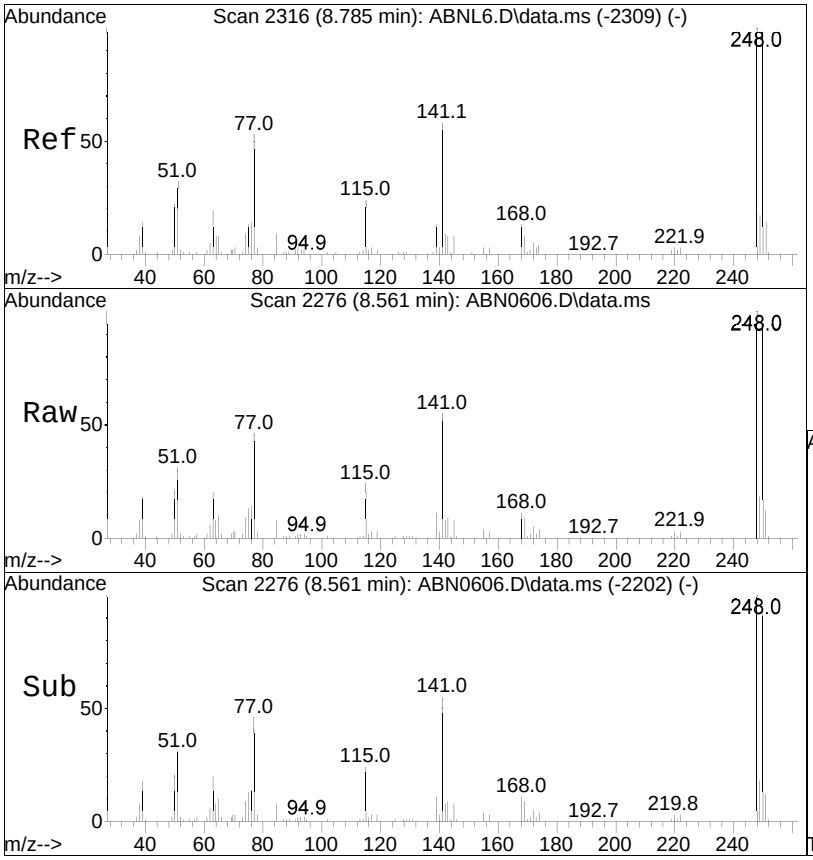


#77
Azobenzene
Concen: 5.29 ug/ml
RT: 8.244 min Scan# 2174
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion: 77 Resp: 109693

Ion	Ratio	Lower	Upper
77	100		
182	21.7	17.4	26.2
105	16.4	15.4	23.2

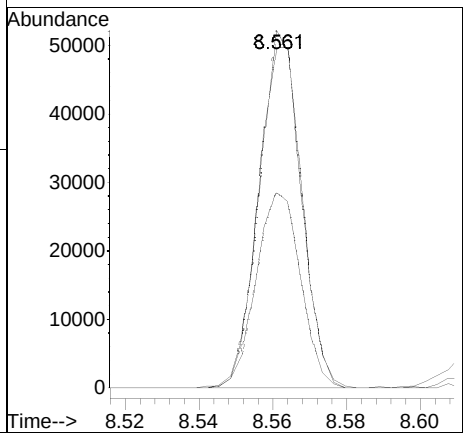


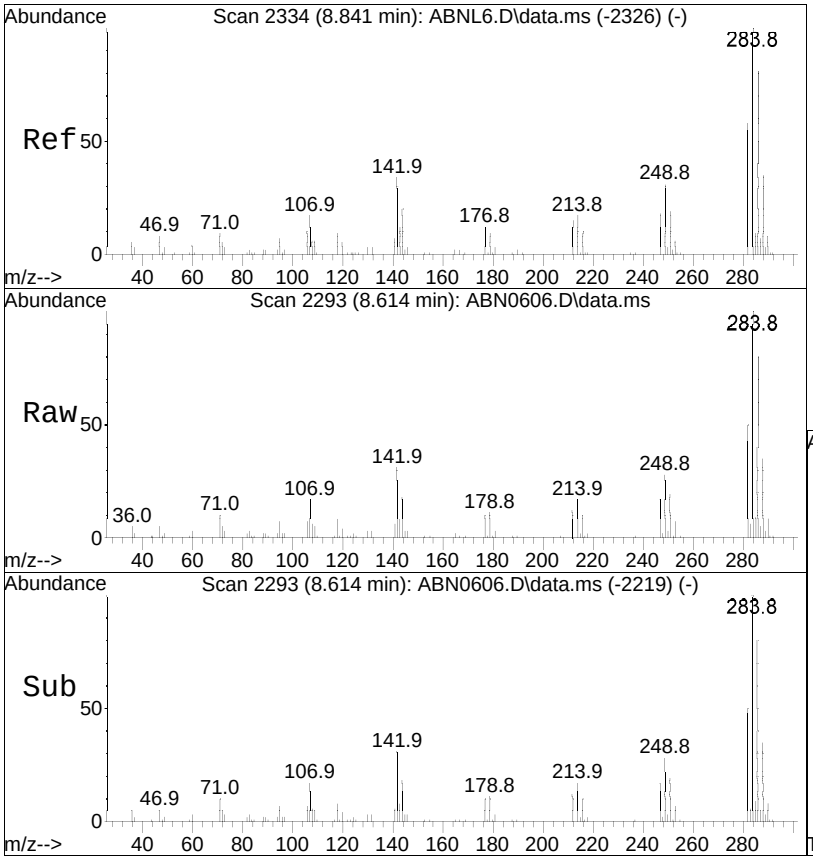


#79
4-Bromophenyl phenyl ether
Concen: 5.19 ug/ml
RT: 8.561 min Scan# 2276
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:248 Resp: 41139

Ion	Ratio	Lower	Upper
248	100		
141	57.6	76.6	114.8#
250	98.3	77.3	115.9

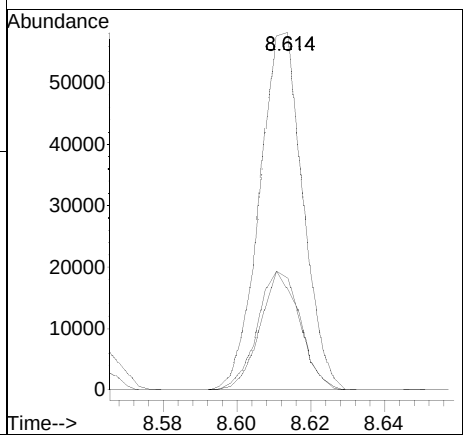


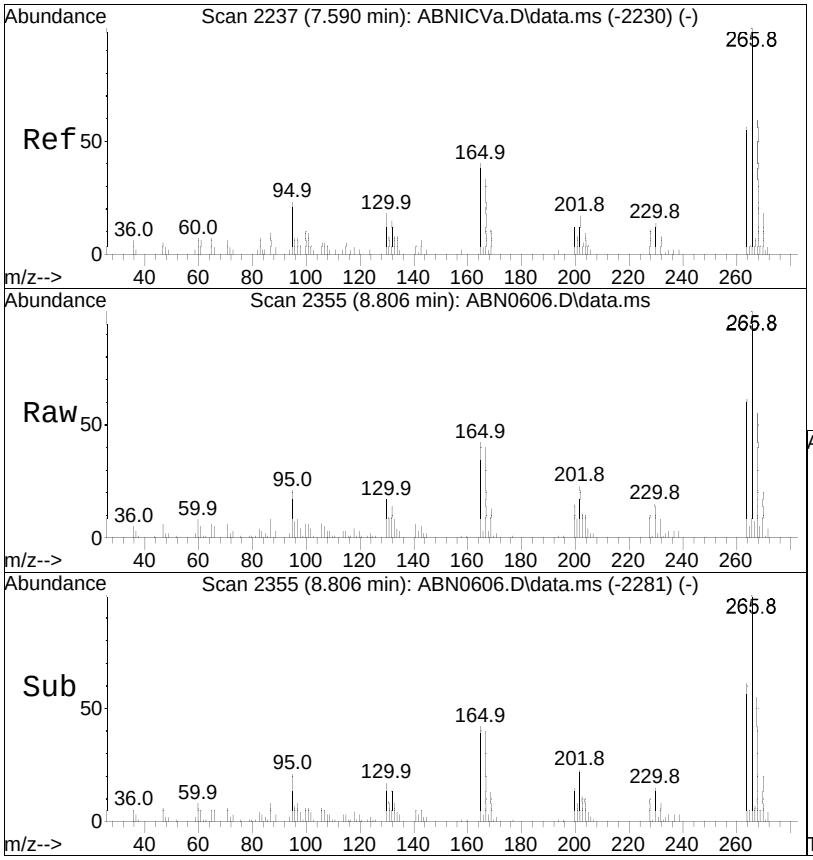


#80
Hexachlorobenzene
Concen: 5.20 ug/ml
RT: 8.614 min Scan# 2293
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:284 Resp: 47402

Ion	Ratio	Lower	Upper
284	100		
142	33.1	41.9	62.9#
249	30.7	24.1	36.1

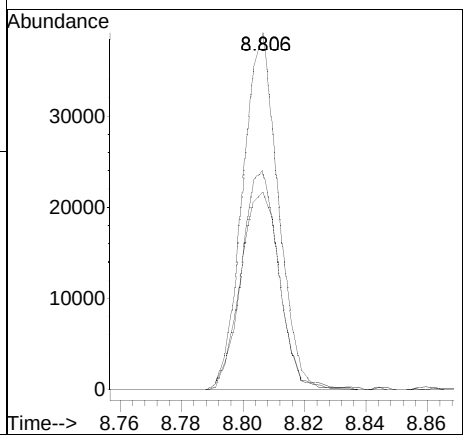


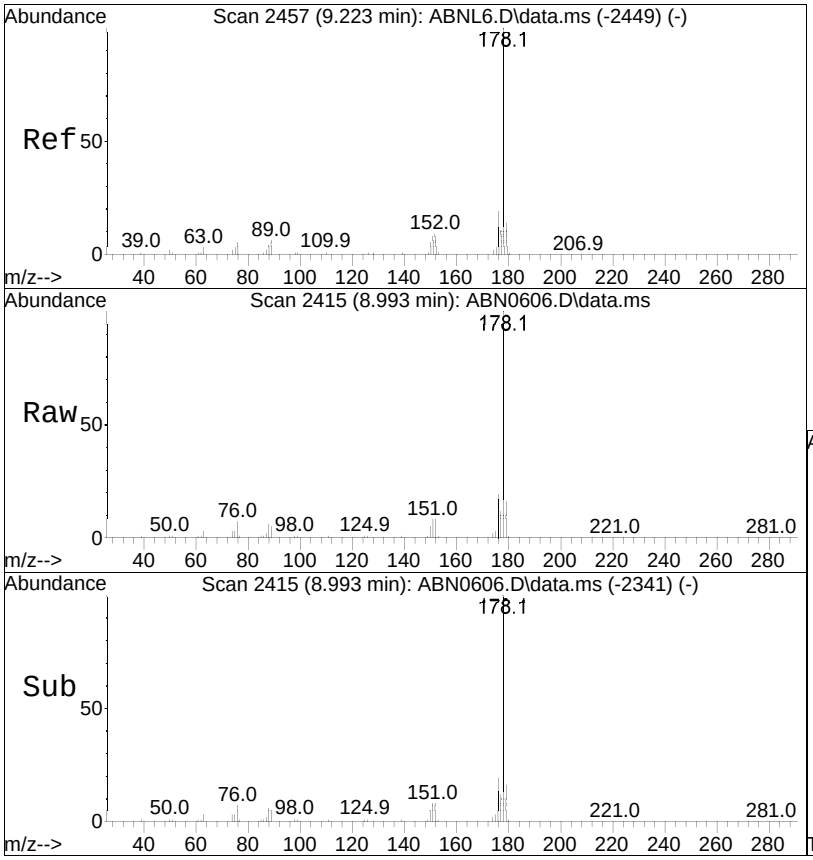


#81
Pentachlorophenol
Concen: 5.46 ug/ml
RT: 8.806 min Scan# 2355
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:266 Resp: 31640

Ion	Ratio	Lower	Upper
266	100		
264	63.4	49.7	74.5
268	61.2	50.5	75.7

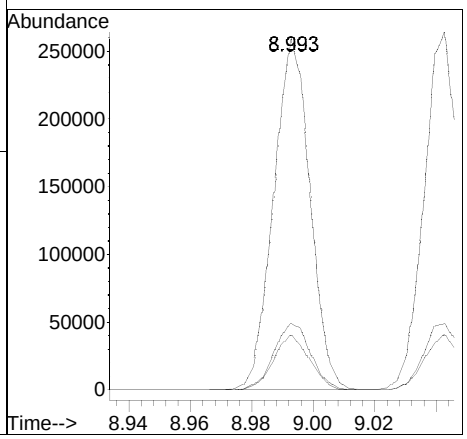


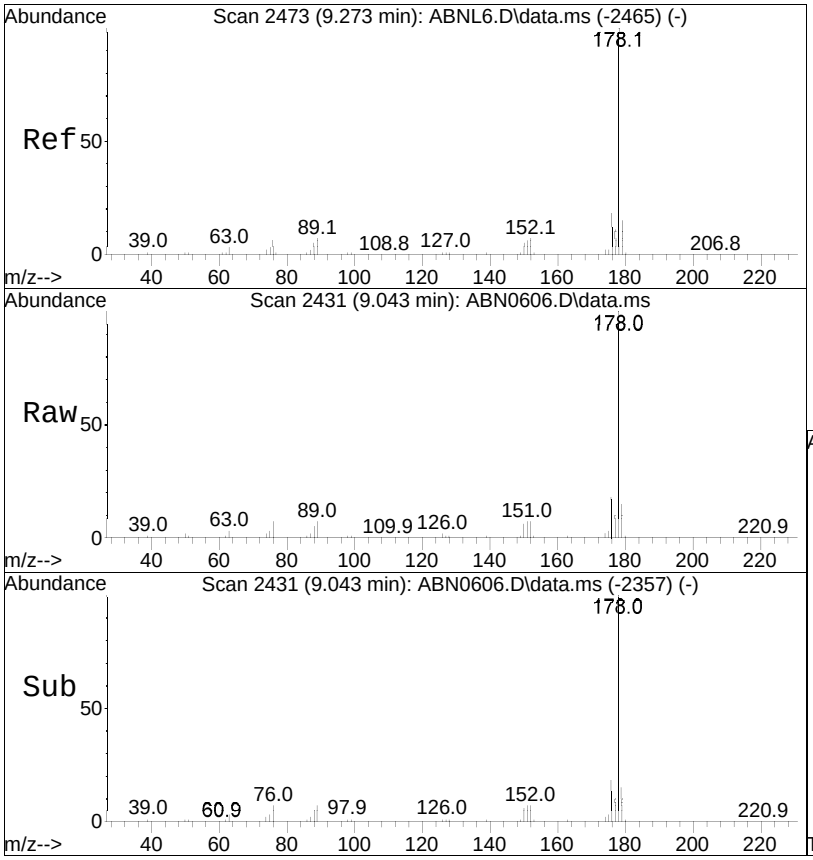


#88
Phenanthrene
Concen: 4.91 ug/ml
RT: 8.993 min Scan# 2415
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:178 Resp: 213211

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.2
176	19.1	15.4	23.2

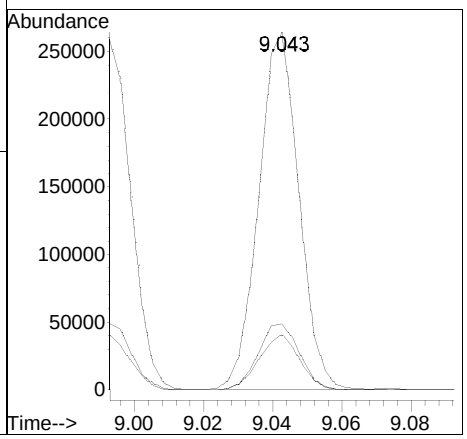


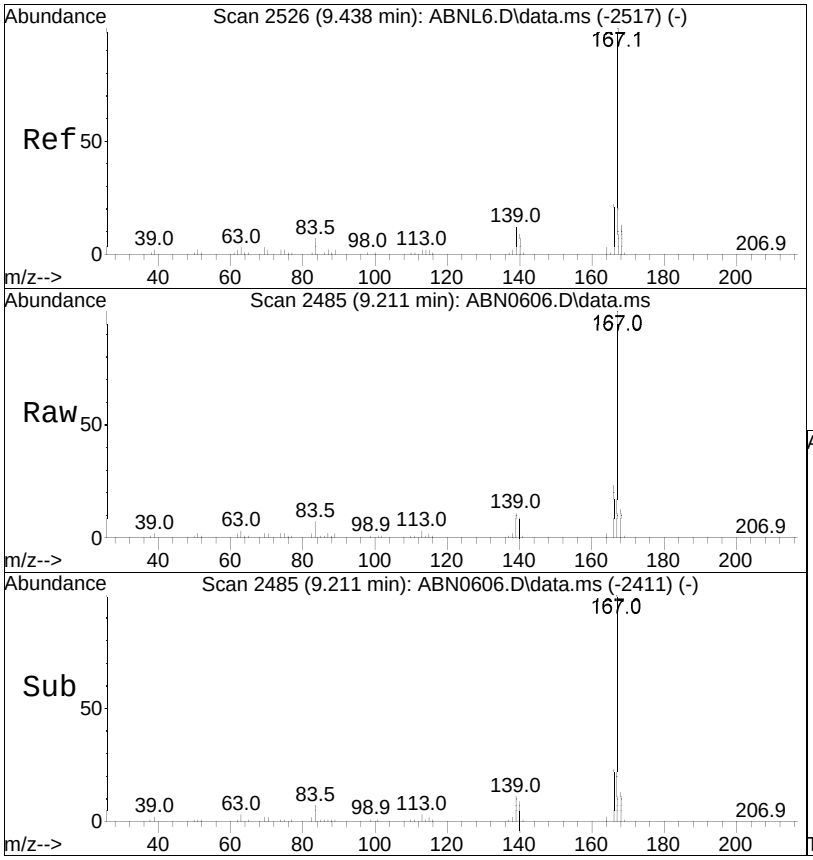


#89
Anthracene
Concen: 5.02 ug/ml
RT: 9.043 min Scan# 2431
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:178 Resp: 212938

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.0	18.0
176	18.9	14.6	22.0

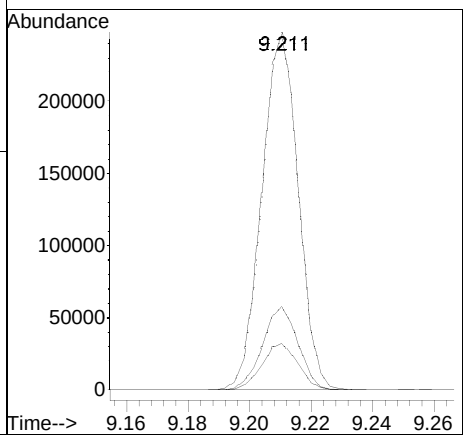


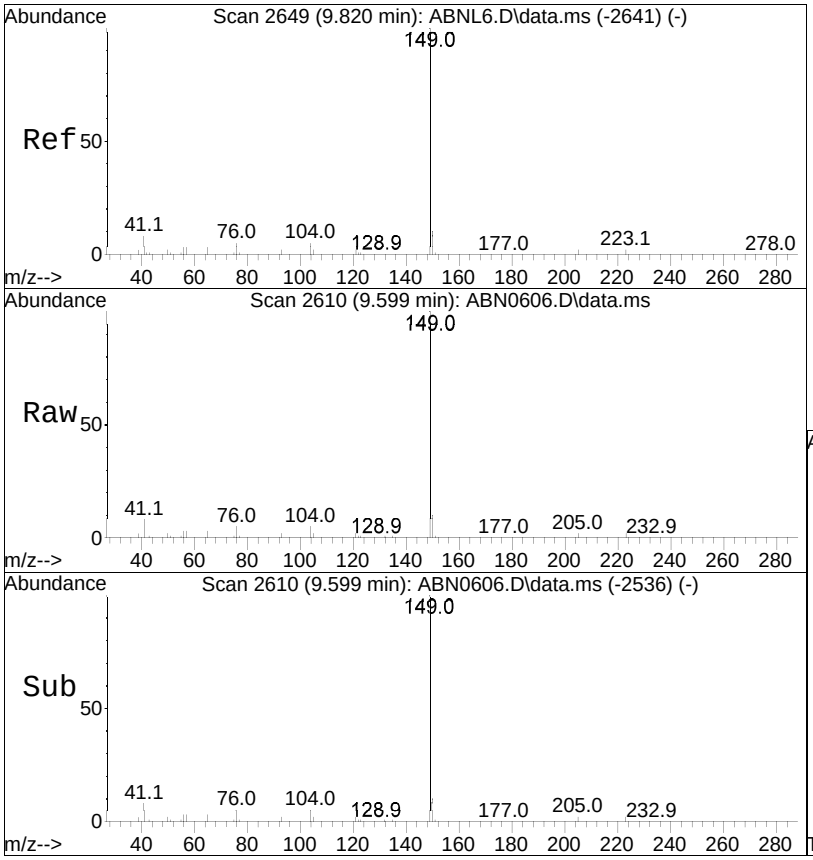


#90
Carbazole
Concen: 4.90 ug/ml
RT: 9.211 min Scan# 2485
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:167 Resp: 201188

Ion	Ratio	Lower	Upper
167	100		
168	13.0	10.6	15.8
166	22.9	17.4	26.0

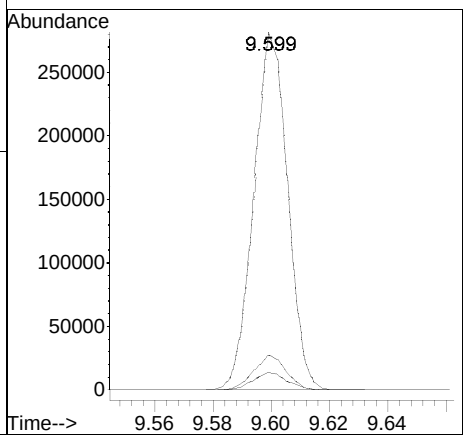


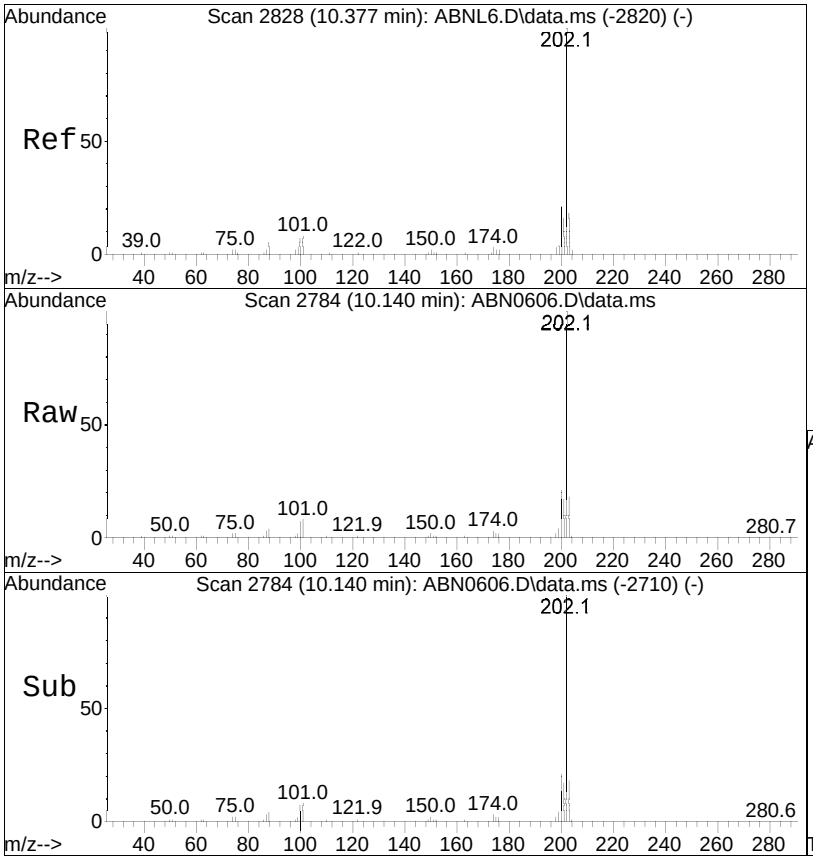


#91
Di-n-butylphthalate
Concen: 5.01 ug/ml
RT: 9.599 min Scan# 2610
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:149 Resp: 223851

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.0	10.6
104	4.9	4.5	6.7

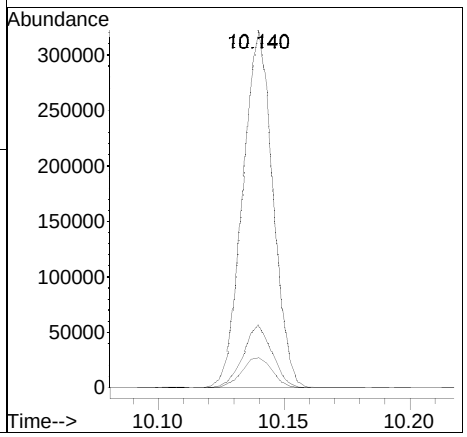


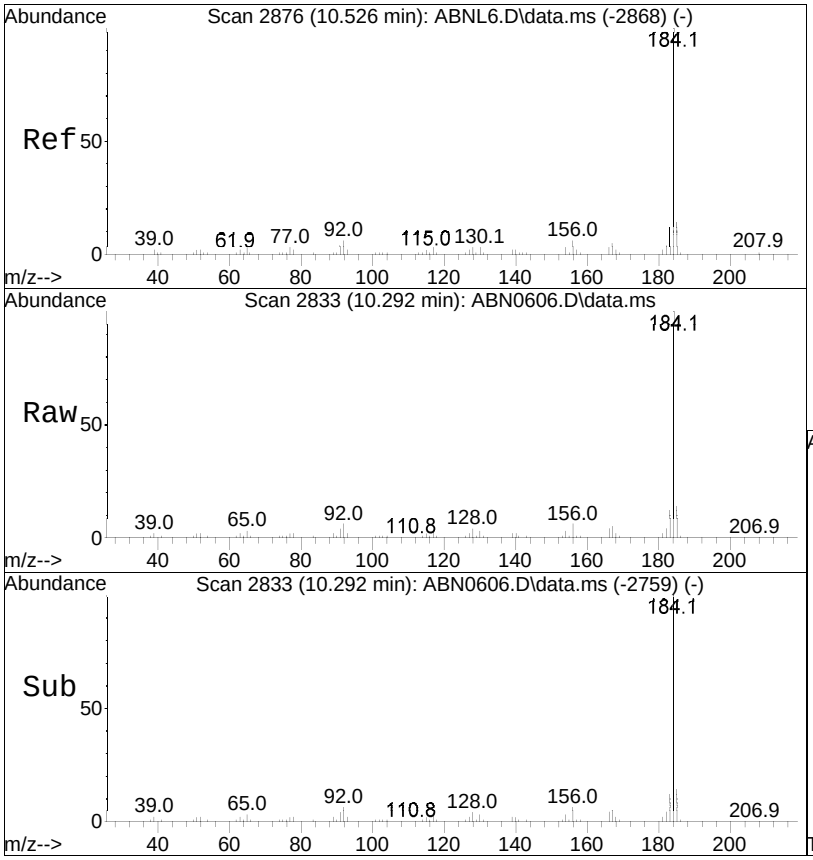


#92
Fluoranthene
Concen: 4.81 ug/ml
RT: 10.140 min Scan# 2784
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:202 Resp: 266463

Ion	Ratio	Lower	Upper
202	100		
101	8.6	13.5	20.3#
203	17.0	13.6	20.4

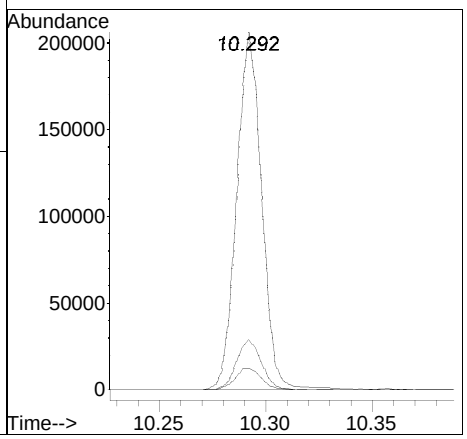


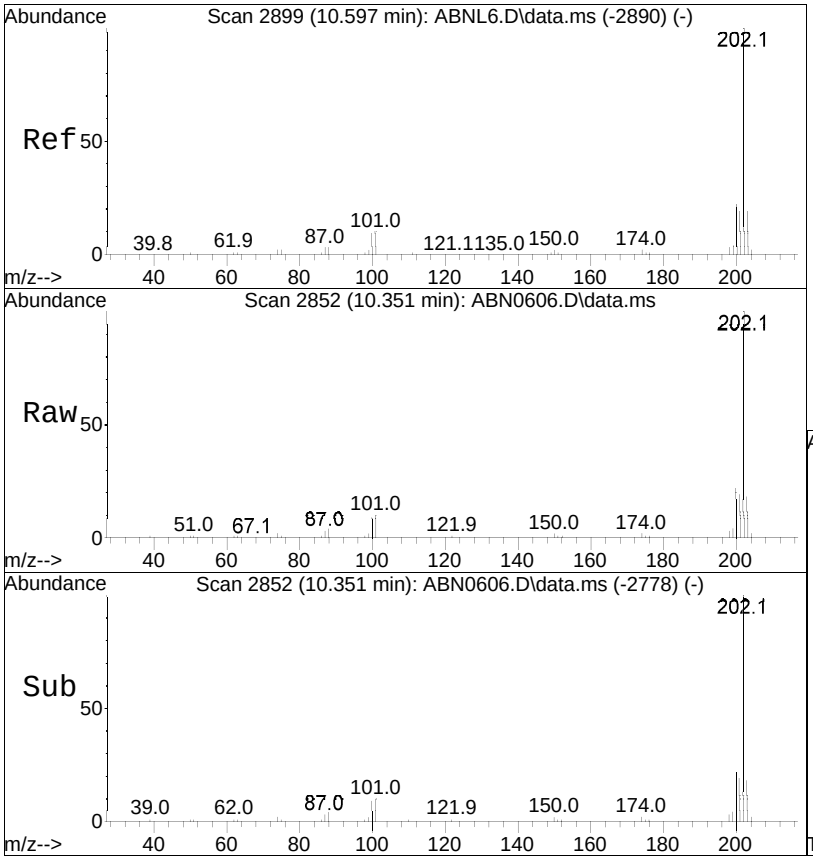


#93
Benzidine
Concen: 5.21 ug/ml
RT: 10.292 min Scan# 2833
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:184 Resp: 165562

Ion	Ratio	Lower	Upper
184	100		
92	6.3	9.1	13.7#
185	14.1	11.1	16.7

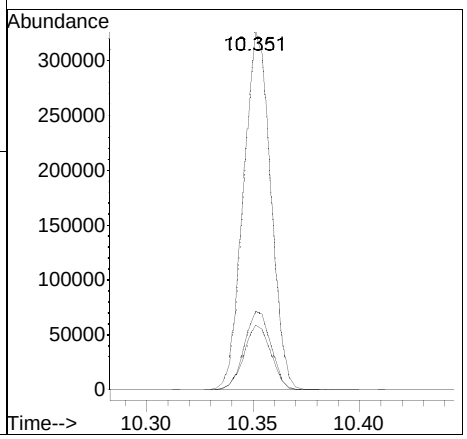


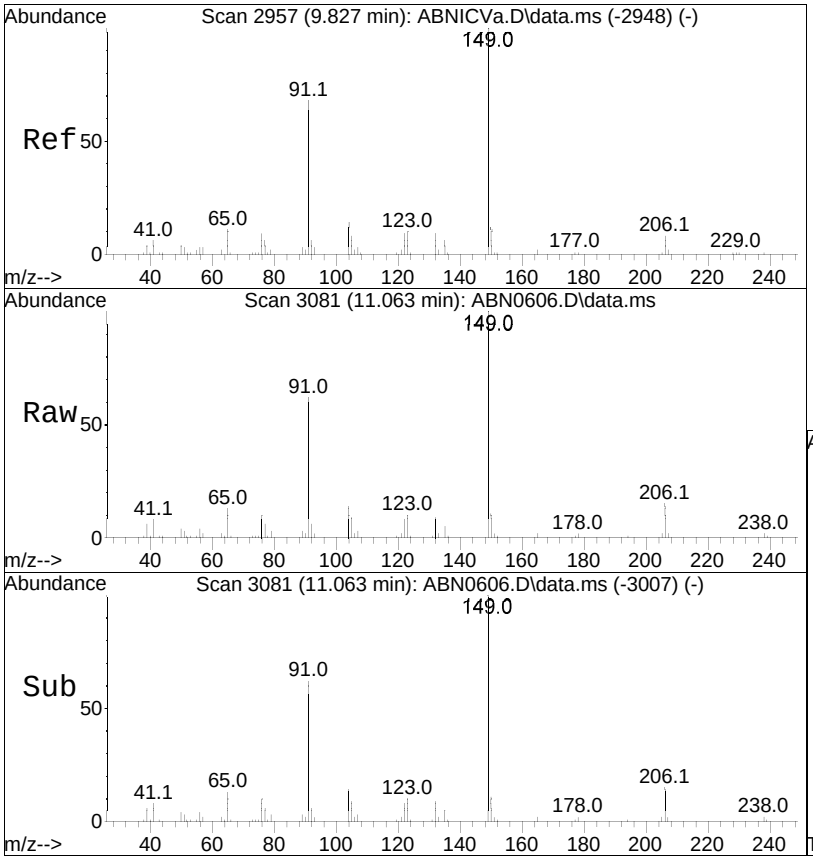


#94
Pyrene
Concen: 4.95 ug/ml
RT: 10.351 min Scan# 2852
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:202 Resp: 287975

Ion	Ratio	Lower	Upper
202	100		
200	21.7	16.7	25.1
203	17.9	14.2	21.4

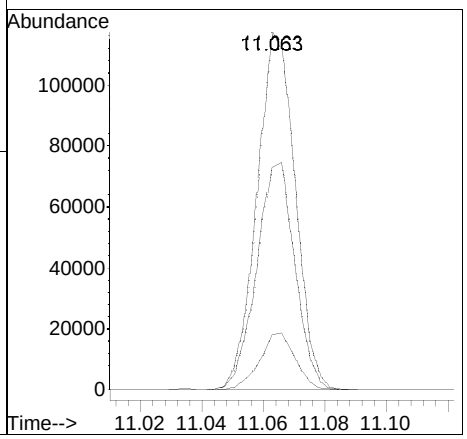


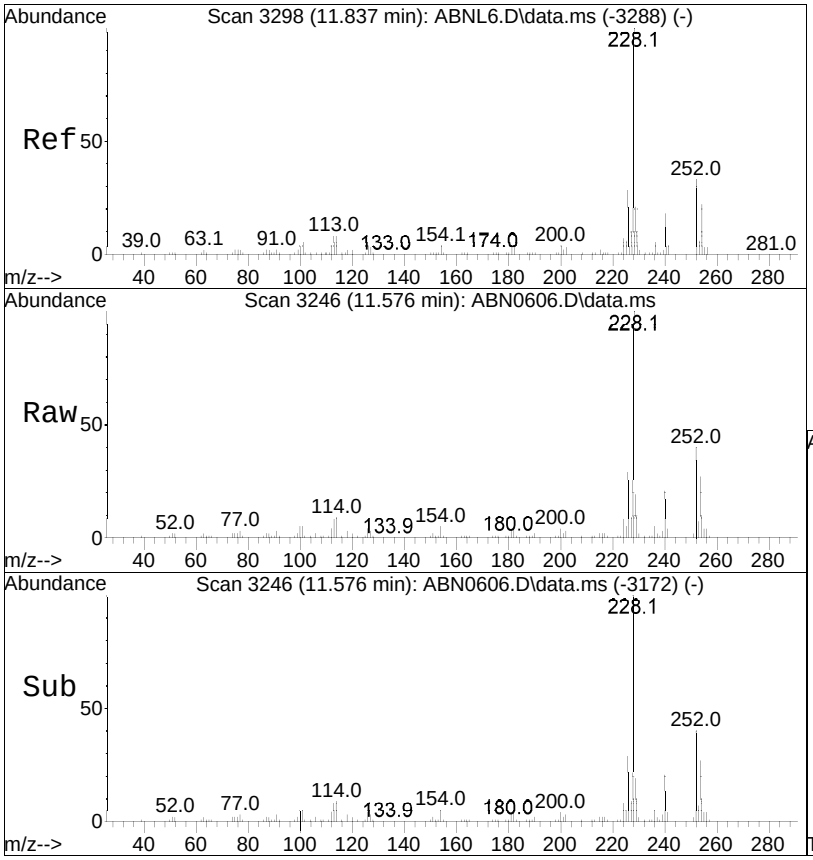


#96
Butyl benzyl phthalate
Concen: 4.90 ug/ml
RT: 11.063 min Scan# 3081
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:149 Resp: 100304

Ion	Ratio	Lower	Upper
149	100		
91	63.8	63.3	94.9
206	14.9	13.9	20.9

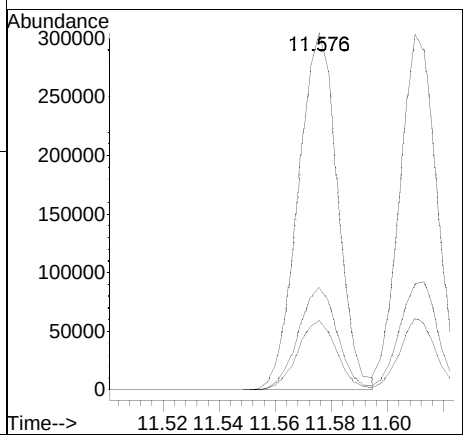


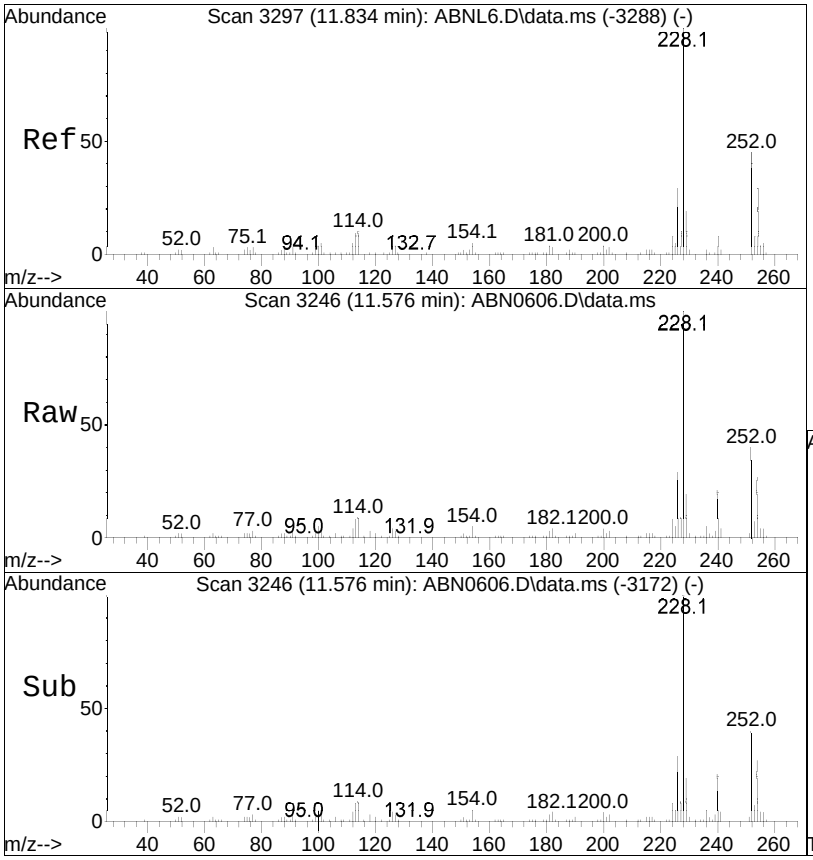


#104
Benzo(a)anthracene
Concen: 4.75 ug/ml M3
RT: 11.576 min Scan# 3246
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:228 Resp: 297585

Ion	Ratio	Lower	Upper
228	100		
226	29.0	22.2	33.4
229	18.2	15.6	23.4

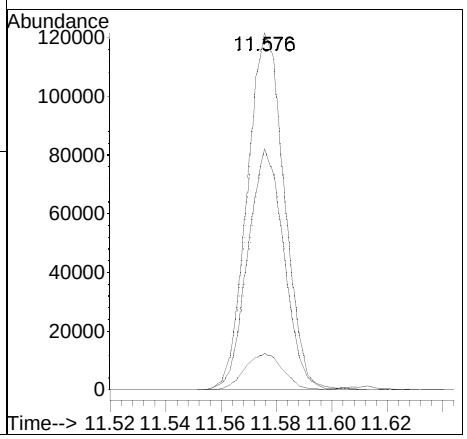


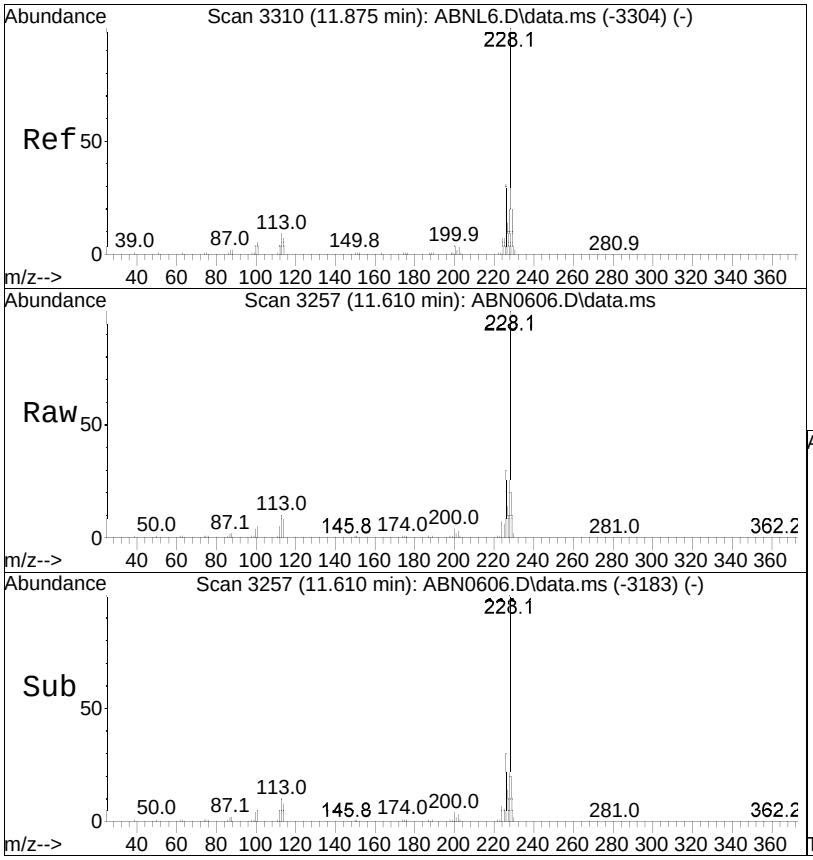


#105
3,3'-Dichlorobenzidine
Concen: 5.22 ug/ml
RT: 11.576 min Scan# 3246
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:252 Resp: 112308

Ion	Ratio	Lower	Upper
252	100		
126	10.5	14.5	21.7#
254	66.1	51.2	76.8

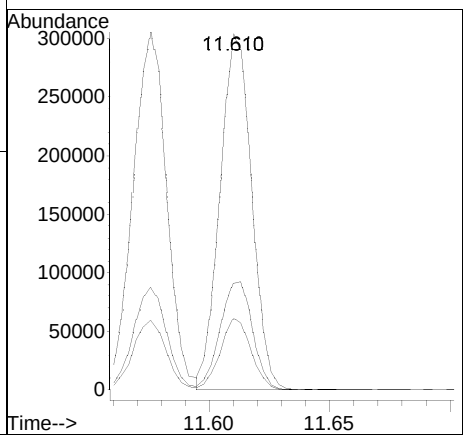


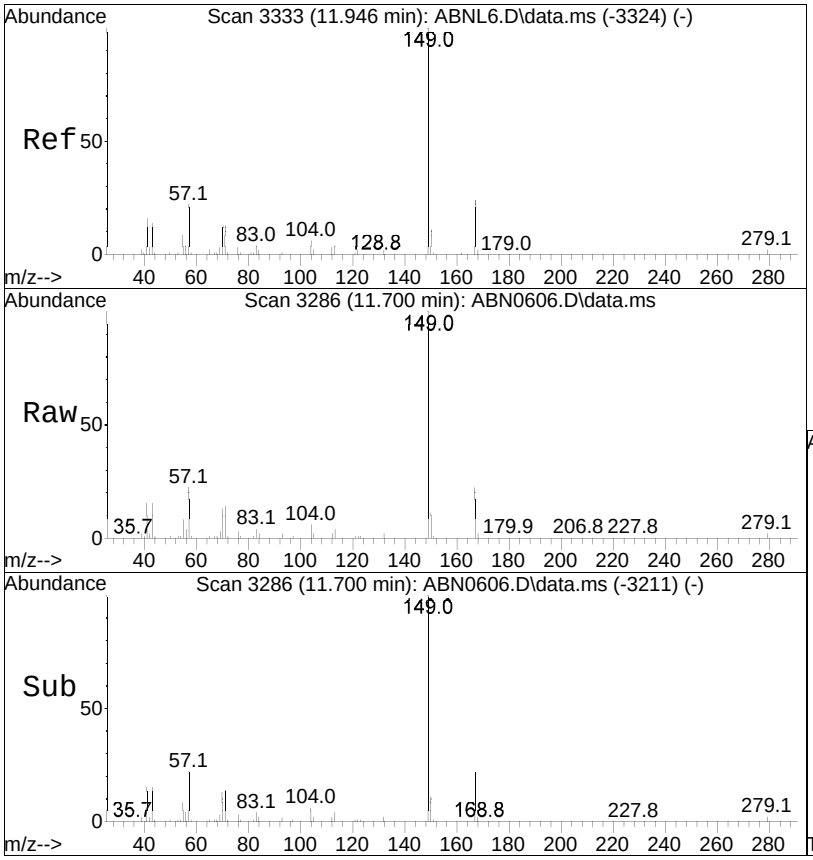


#106
Chrysene
Concen: 4.85 ug/ml
RT: 11.610 min Scan# 3257
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:228 Resp: 278422

Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.0	36.0
229	19.4	15.8	23.8

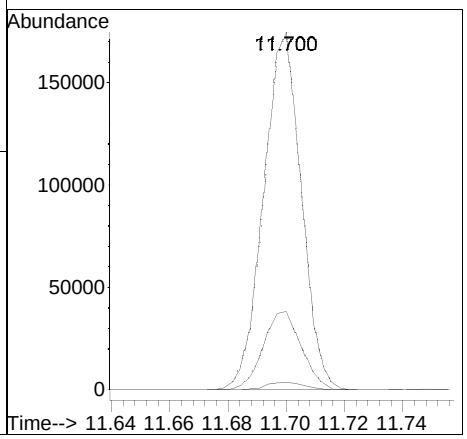


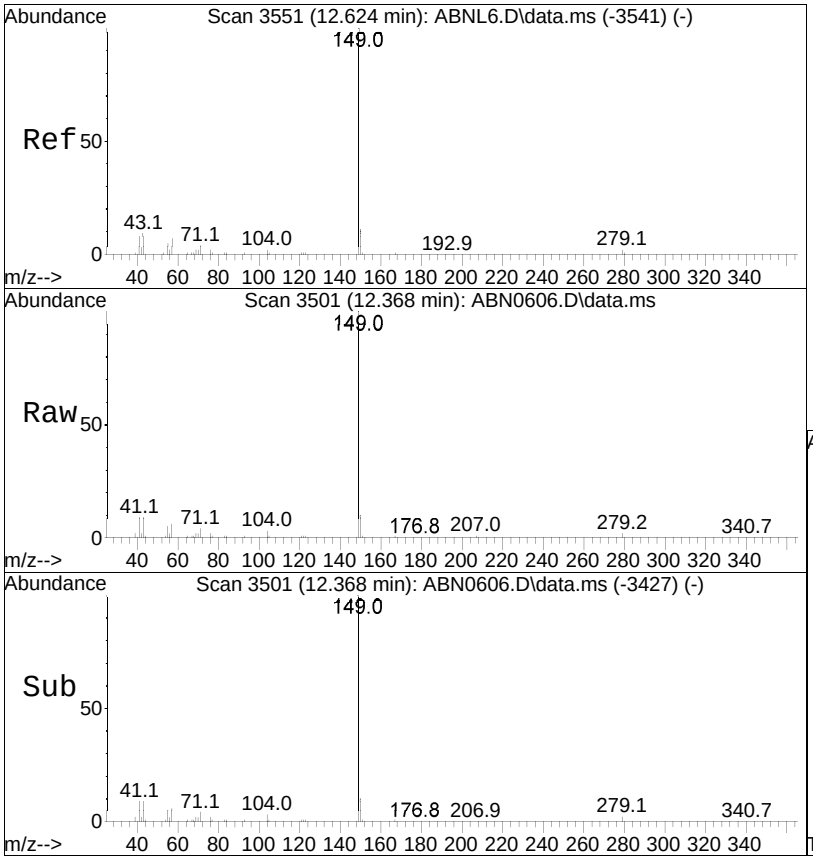


#107
Bis(2-ethylhexyl)phthalate
Concen: 5.12 ug/ml
RT: 11.700 min Scan# 3286
Delta R.T. -0.015 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:149 Resp: 155004

Ion	Ratio	Lower	Upper
149	100		
167	22.3	22.1	33.1
279	2.0	3.0	4.4#

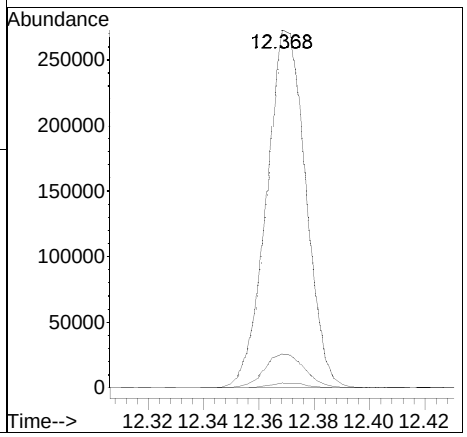


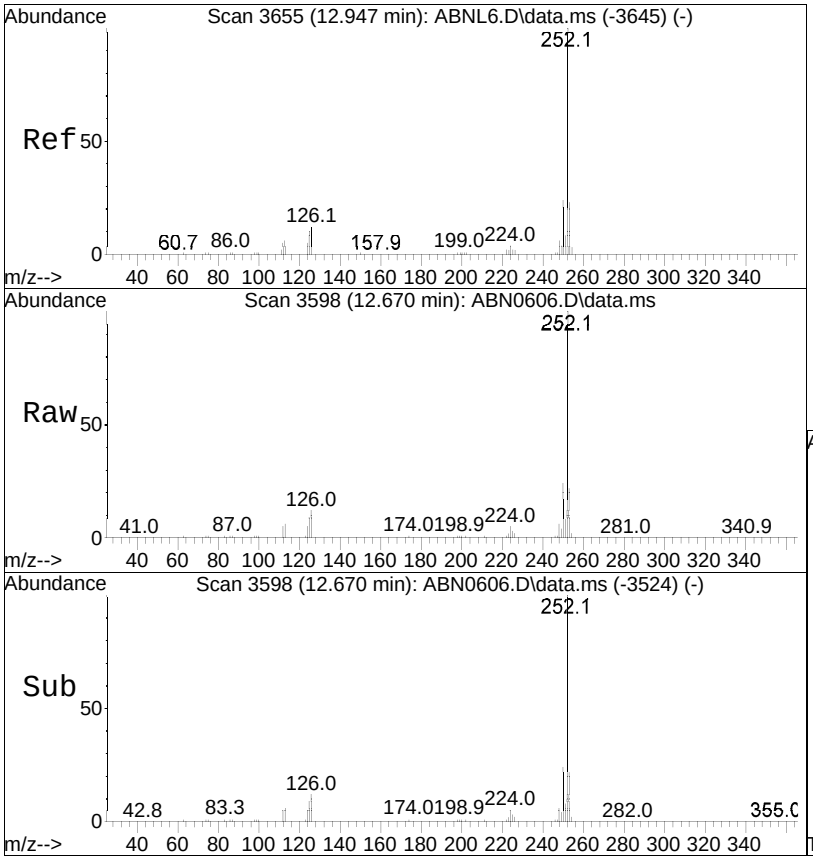


#108
Di-n-octylphthalate
Concen: 5.14 ug/ml
RT: 12.368 min Scan# 3501
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:149 Resp: 265724

Ion	Ratio	Lower	Upper
149	100		
43	10.0	18.8	28.2#
167	1.3	1.3	1.9

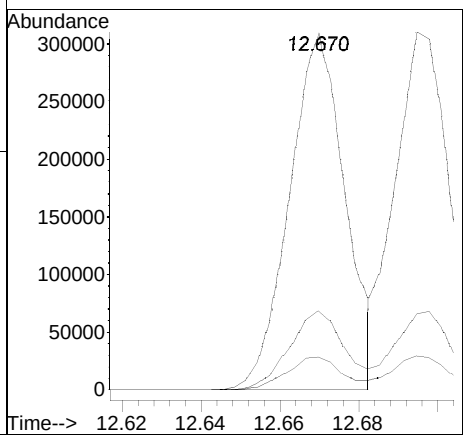


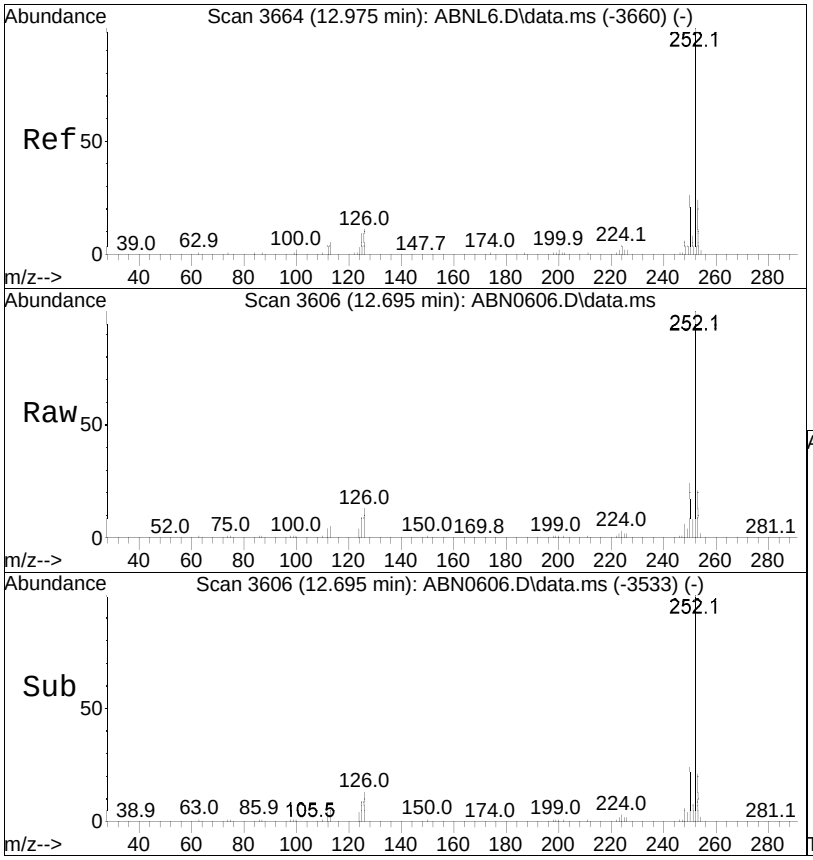


#109
Benzo(b)fluoranthene
Concen: 4.70 ug/ml M3
RT: 12.670 min Scan# 3598
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:252 Resp: 302951

Ion	Ratio	Lower	Upper
252	100		
125	9.4	13.3	19.9#
253	21.9	17.1	25.7

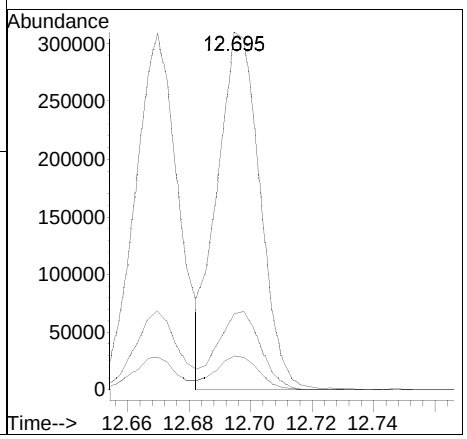


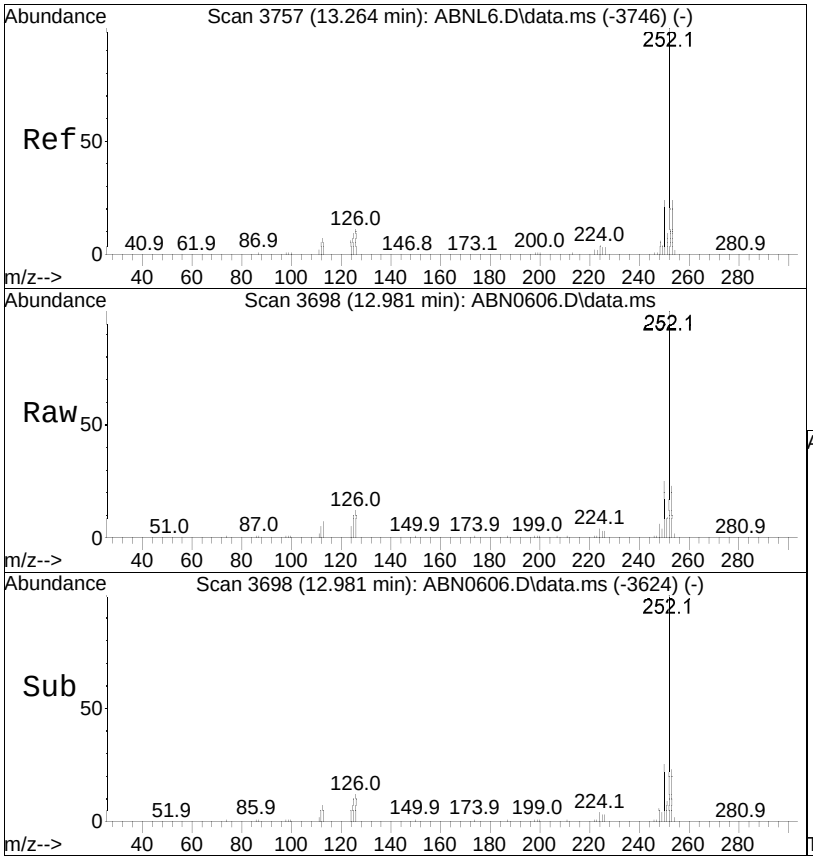


#110
Benzo(k)fluoranthene
Concen: 4.87 ug/ml
RT: 12.695 min Scan# 3606
Delta R.T. -0.022 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:252 Resp: 300261

Ion	Ratio	Lower	Upper
252	100		
125	9.5	13.0	19.6#
253	22.1	16.8	25.2

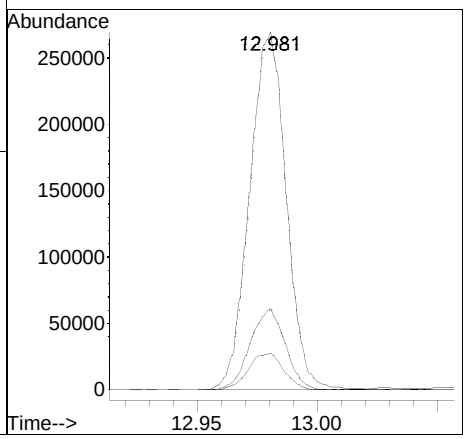


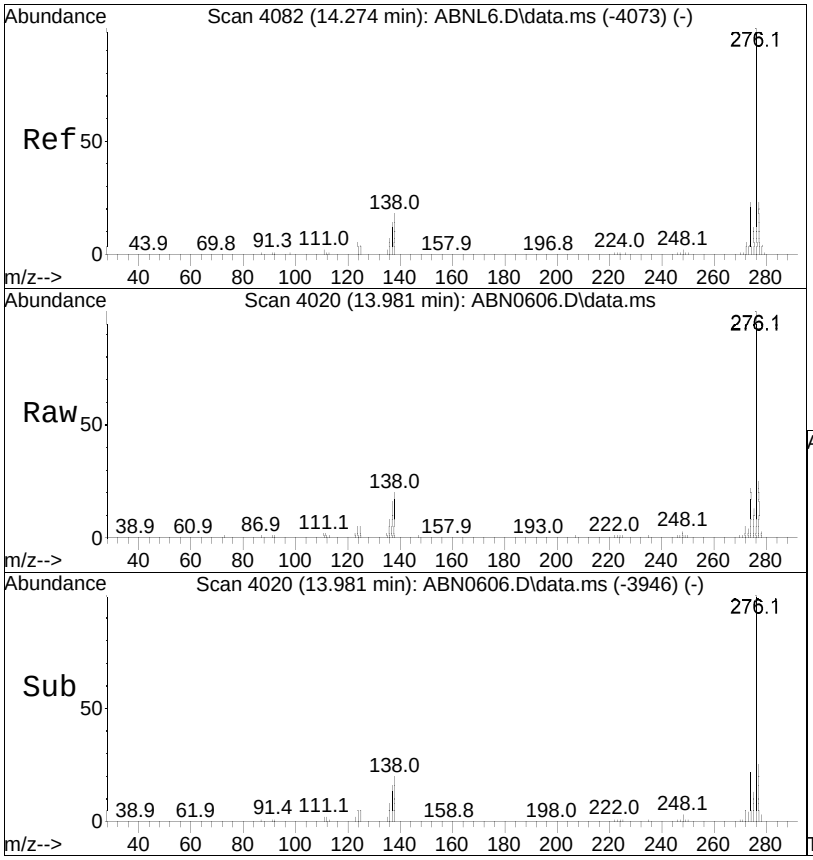


#111
Benzo(a)pyrene
Concen: 4.91 ug/ml
RT: 12.981 min Scan# 3698
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:252 Resp: 281991

Ion	Ratio	Lower	Upper
252	100		
125	10.2	14.2	21.2#
253	22.1	16.9	25.3

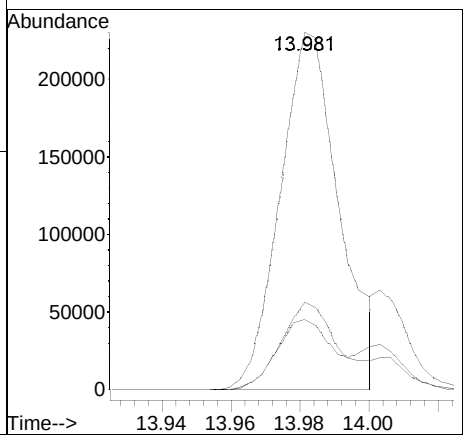


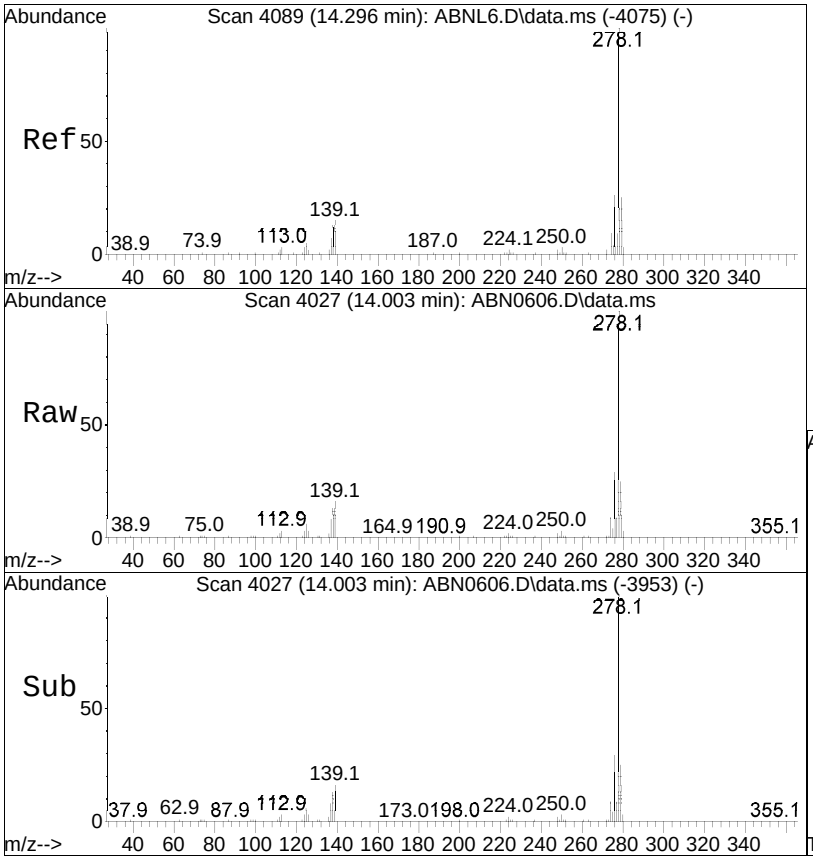


#113
Indeno(1,2,3-cd)pyrene
Concen: 4.47 ug/mL M6
RT: 13.981 min Scan# 4020
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:276 Resp: 272554

Ion	Ratio	Lower	Upper
276	100		
138	18.9	25.1	37.7#
277	24.4	18.6	28.0

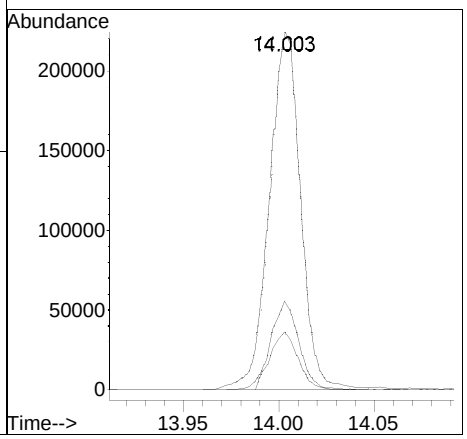


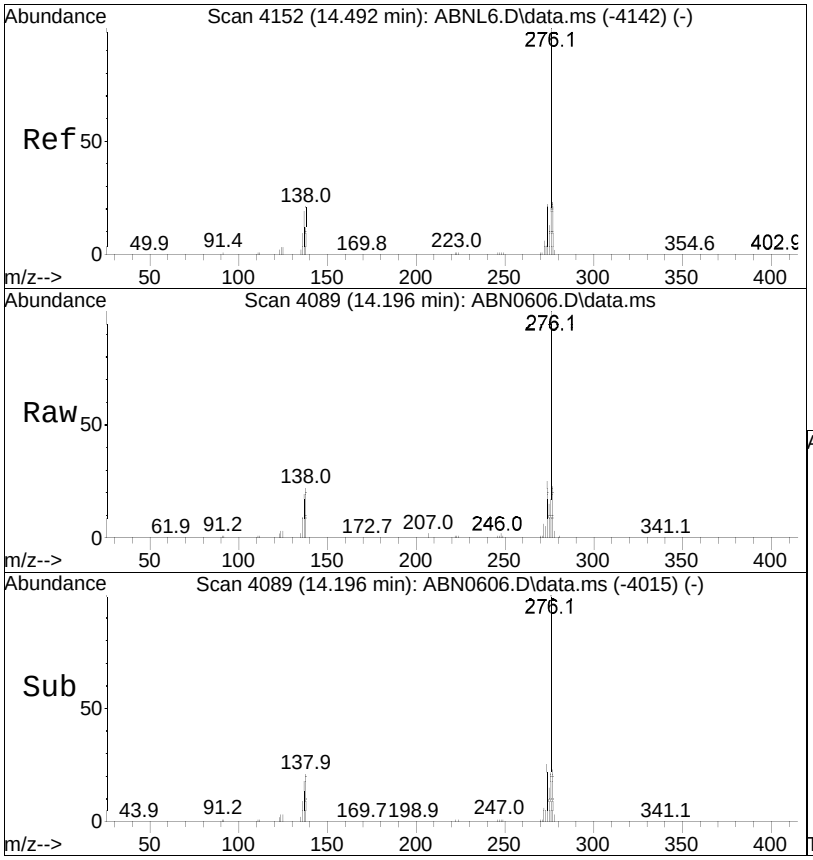


#114
Dibenzo(a,h)anthracene
Concen: 4.53 ug/ml
RT: 14.003 min Scan# 4027
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:278 Resp: 253363

Ion	Ratio	Lower	Upper
278	100		
139	14.6	20.8	31.2#
279	22.9	18.3	27.5

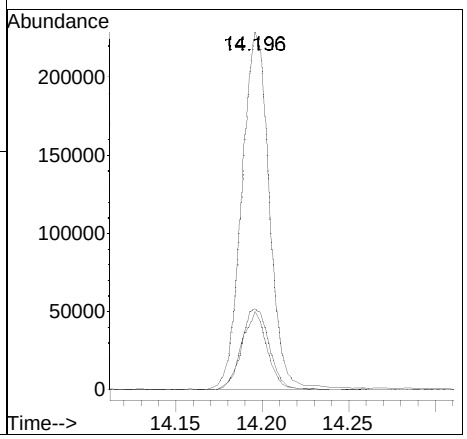




#115
Benzo(ghi)perylene
Concen: 4.49 ug/ml
RT: 14.196 min Scan# 4089
Delta R.T. -0.019 min
Lab File: ABN0606.D
Acq: 6 Jun 2024 1:04 pm

Tgt Ion:276 Resp: 251081

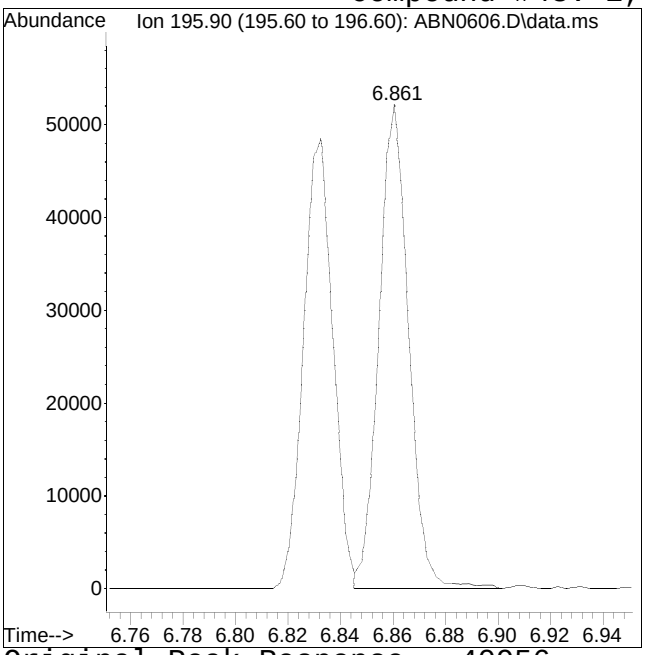
Ion	Ratio	Lower	Upper
276	100		
138	20.9	29.2	43.8#
277	23.2	18.8	28.2

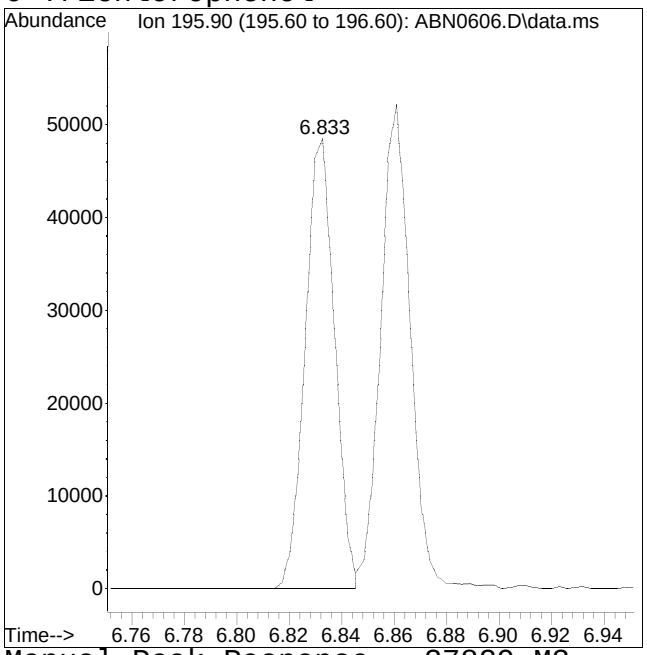


Manual Integration Report

Data Path : I:\8270\Dakota\240606RVT\ QMethod : FS240531RVTDakota.m
Data File : ABN0606.D Operator : Dakota:gmr
Date Inj'd : 6/6/2024 1:04 pm Instrument : Dakota
Sample : WG1930740-3,32,,ABN 10526 Quant Date : 6/6/2024 1:23 pm

Compound #43: 2,4,6-Trichlorophenol



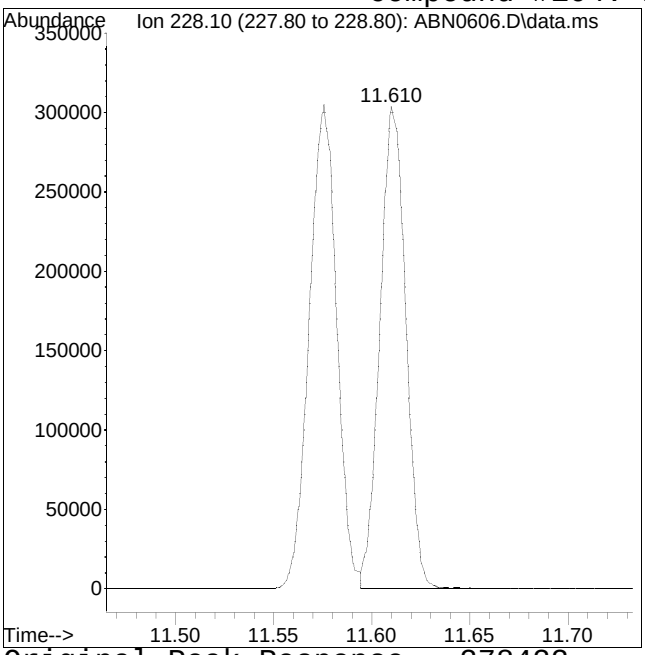


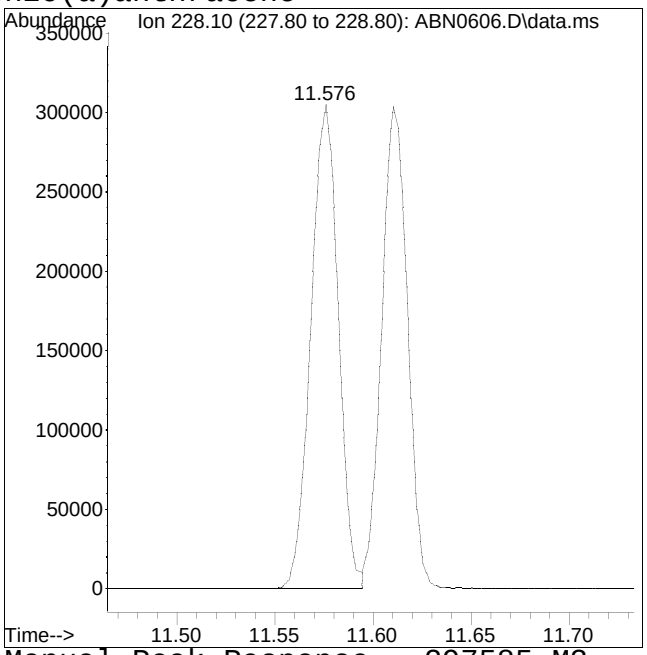
Original Peak Response = 40956 Manual Peak Response = 37829 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\240606RVT\ QMethod : FS240531RVTDakota.m
Data File : ABN0606.D Operator : Dakota:gmr
Date Inj'd : 6/6/2024 1:04 pm Instrument : Dakota
Sample : WG1930740-3,32,,ABN 10526 Quant Date : 6/6/2024 1:23 pm

Compound #104: Benzo(a)anthracene



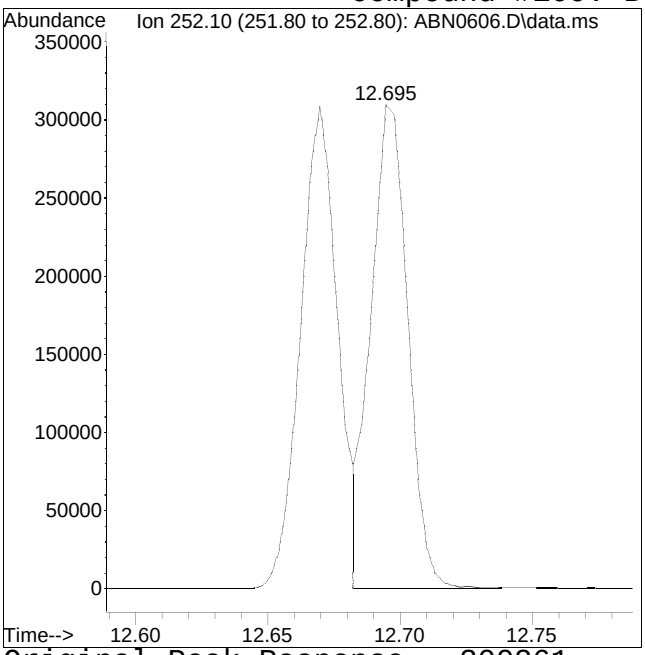


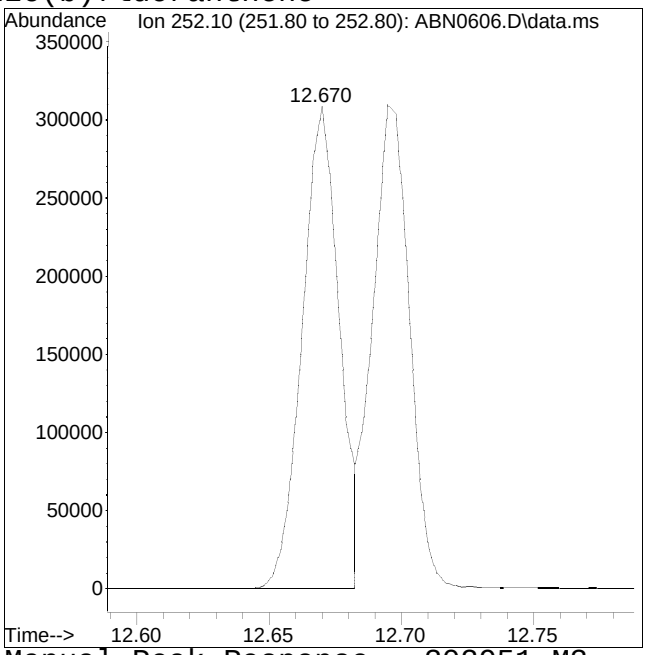
Original Peak Response = 278422 Manual Peak Response = 297585 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\240606RVT\ QMethod : FS240531RVTDakota.m
Data File : ABN0606.D Operator : Dakota:gmr
Date Inj'd : 6/6/2024 1:04 pm Instrument : Dakota
Sample : WG1930740-3,32,,ABN 10526 Quant Date : 6/6/2024 1:23 pm

Compound #109: Benzo(b)fluoranthene





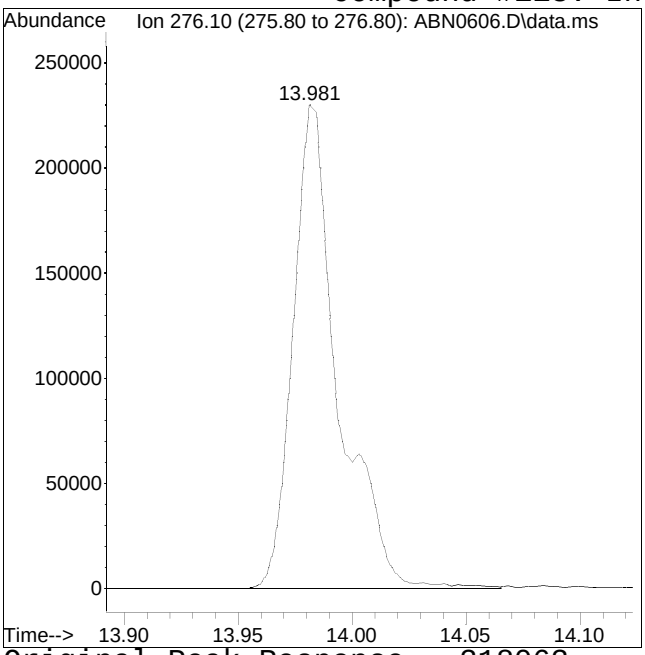
Original Peak Response = 300261 Manual Peak Response = 302951 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

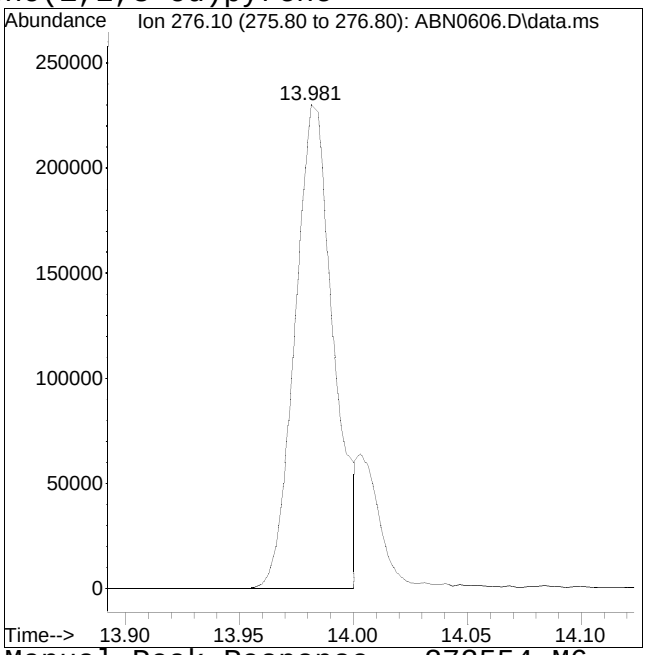
Manual Integration Report

Data Path : I:\8270\Dakota\240606RVT\ QMethod : FS240531RVTDakota.m
Data File : ABN0606.D Operator : Dakota:gmr
Date Inj'd : 6/6/2024 1:04 pm Instrument : Dakota
Sample : WG1930740-3,32,,ABN 10526 Quant Date : 6/6/2024 1:23 pm

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 318063



Manual Peak Response = 272554 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240606RVT\
Data File : AP90606.D
Acq On : 6 Jun 2024 1:26 pm
Operator : Dakota:gmr
Sample : WG1930740-4,32,,AP9 10776 mrg0604A
Misc : WG1930740,,ical21172
ALS Vial : 97 Sample Multiplier: 1

Quant Time: Jun 06 13:44:29 2024
Quant Method : I:\8270\dakota\240606RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 06 12:48:38 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	85	0.00
28	T	Benzaldehyde		0.959	0.999	-4.2	101	0.00
29	T	Acetophenone		1.593	1.725	-8.3	96	0.00
30	T	m-Toluidine		1.457	1.615	-10.8	96	0.00
31	T	2-Chloroaniline		1.441	1.617	-12.2	99	0.00
54	I	IS2_Naphthalene-d8		1.000	1.000	0.0	89	0.00
55	T	a-Terpineol		0.248	0.259	-4.4	99	0.00
56	T	3-Chloroaniline		0.136	0.140	-2.9	98	0.00
57	T	2,6-Dichlorophenol		0.319	0.355	-11.3	101	0.00
58	T	1-chloro-2-nitrobenzene		0.121	0.137	-13.2	106	0.00
59	T	Caprolactam		0.129	0.137	-6.2	98	0.00
60	T	1,2,4,5-Tetrachlorobenzene		0.449	0.482	-7.3	101	0.00
61	T	Biphenyl		0.931	1.006	-8.1	102	0.00
82	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	93	0.00
83	T	Dichloran	*	5.000	5.316	-6.3	124	0.00
84	T	Pentachloronitrobenzene		0.160	0.199	-24.4#	114	0.00
97	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	98	0.00
98	T	Diphenamid		0.471	0.501	-6.4	108	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240606RVT\
Data File : AP90606.D
Acq On : 6 Jun 2024 1:26 pm
Operator : Dakota:gmr
Sample : WG1930740-4,32,,AP9 10776 mrg0604A
Misc : WG1930740,,ical21172
ALS Vial : 97 Sample Multiplier: 1

Quant Time: Jun 06 13:44:29 2024
Quant Method : I:\8270\dakota\240606RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 06 12:48:38 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.614	152	25966	4.000	ug/ml	-0.02
54) IS2_Naphthalene-d8	5.845	136	92927	4.000	ug/ml	#-0.02
82) IS2_Acenaphthene-d10	7.545	164	64770	4.000	ug/ml	-0.02
97) IS2_Phenanthrene-d10	8.971	188	157060	4.000	ug/ml	-0.02
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.179	105	32433	5.209	ug/ml	97
29) Acetophenone	5.015	105	55979	5.412	ug/ml#	79
30) m-Toluidine	5.096	106	52407	5.543	ug/ml	95
31) 2-Chloroaniline	5.456	127	52488	5.612	ug/ml#	92
55) a-Terpineol	5.904	59	30083	5.231	ug/ml#	75
56) 3-Chloroaniline	5.919	65	16240	5.125	ug/ml	97
57) 2,6-Dichlorophenol	5.944	162	41196	5.563	ug/ml#	83
58) 1-chloro-2-nitrobenzene	6.199	111	15955	5.697	ug/ml#	1
59) Caprolactam	6.233	55	15912	5.307	ug/ml#	68
60) 1,2,4,5-Tetrachloroben...	6.712	216	56031	5.371	ug/ml#	95
61) Biphenyl	7.004	154	116807	5.402	ug/ml	96
83) Dichloran	8.670	206	15043	5.316	ug/ml#	63
84) Pentachloronitrobenzene	8.819	237	16129	6.206	ug/ml#	79
98) Diphenamid	9.876	167	98346	5.318	ug/ml#	72

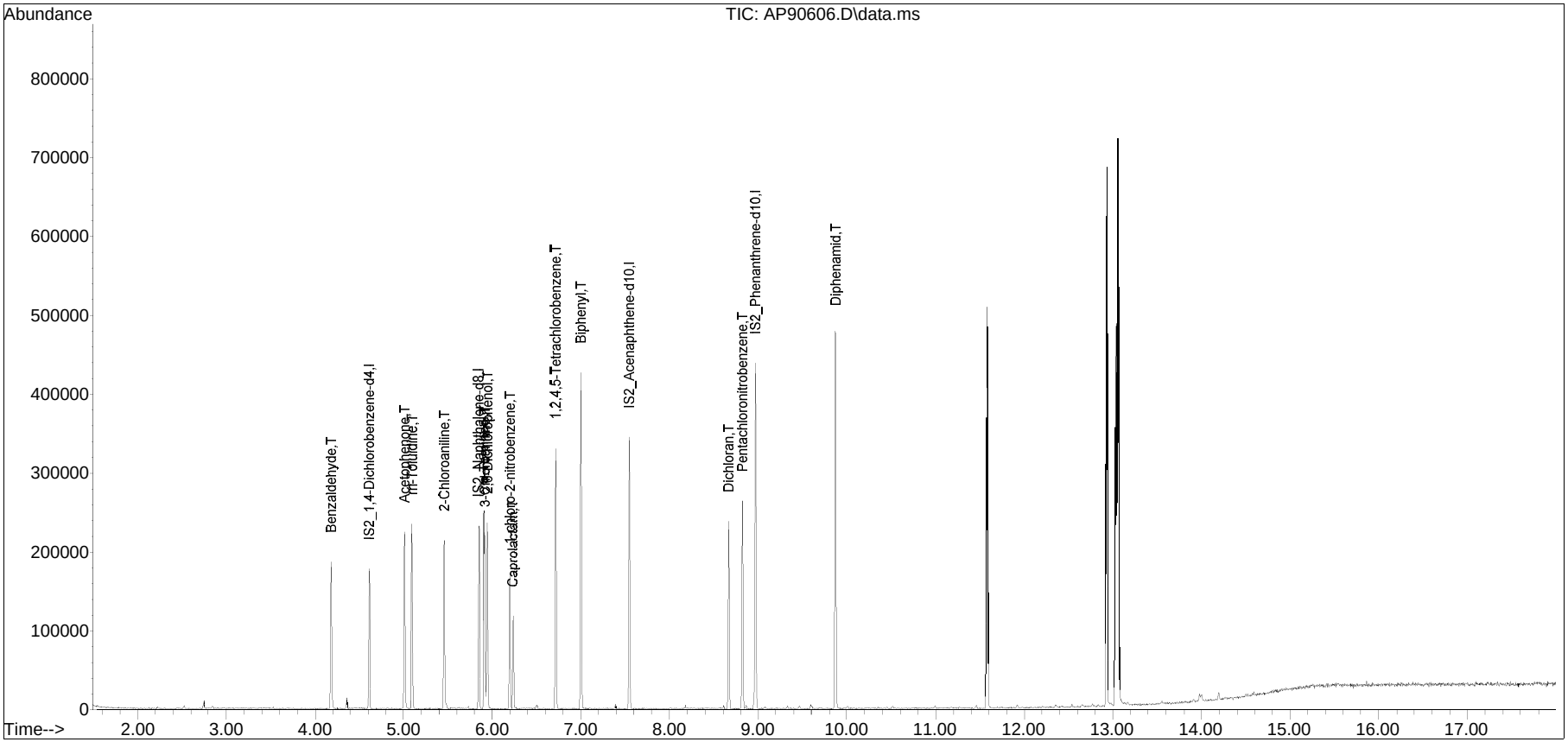
(#) = qualifier out of range (m) = manual integration (+) = signals summed

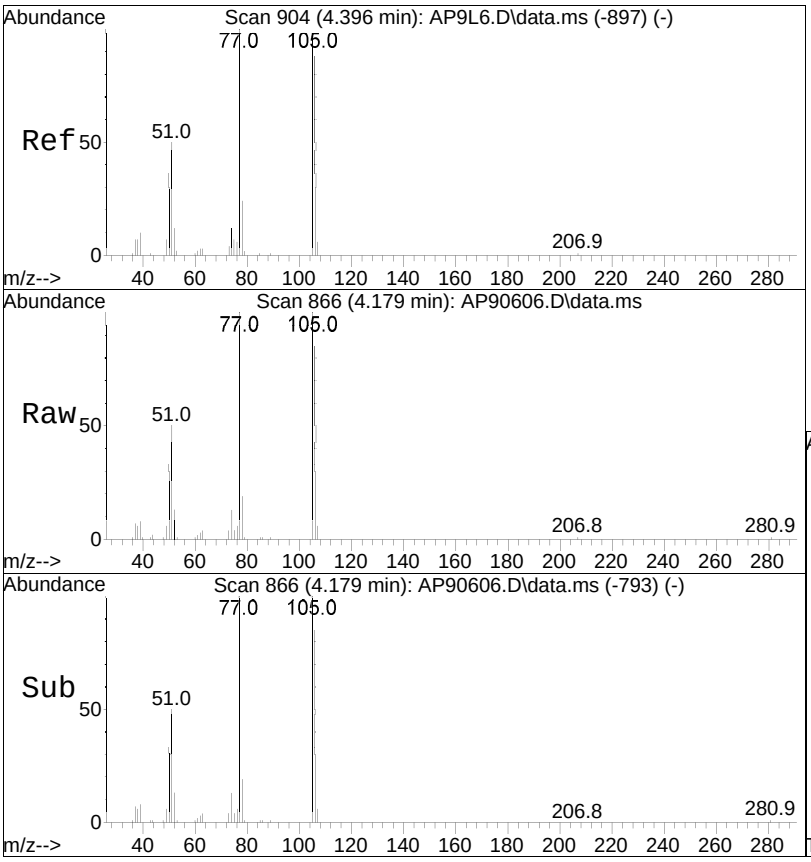
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240606RVT\
Data File : AP90606.D
Acq On : 6 Jun 2024 1:26 pm
Operator : Dakota:gmr
Sample : WG1930740-4,32,,AP9 10776 mrg0604A
Misc : WG1930740,,ical21172
ALS Vial : 97 Sample Multiplier: 1

Quant Time: Jun 06 13:44:29 2024
Quant Method : I:\8270\dakota\240606RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 06 12:48:38 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

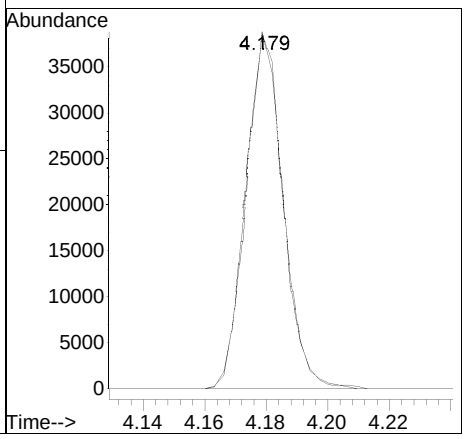


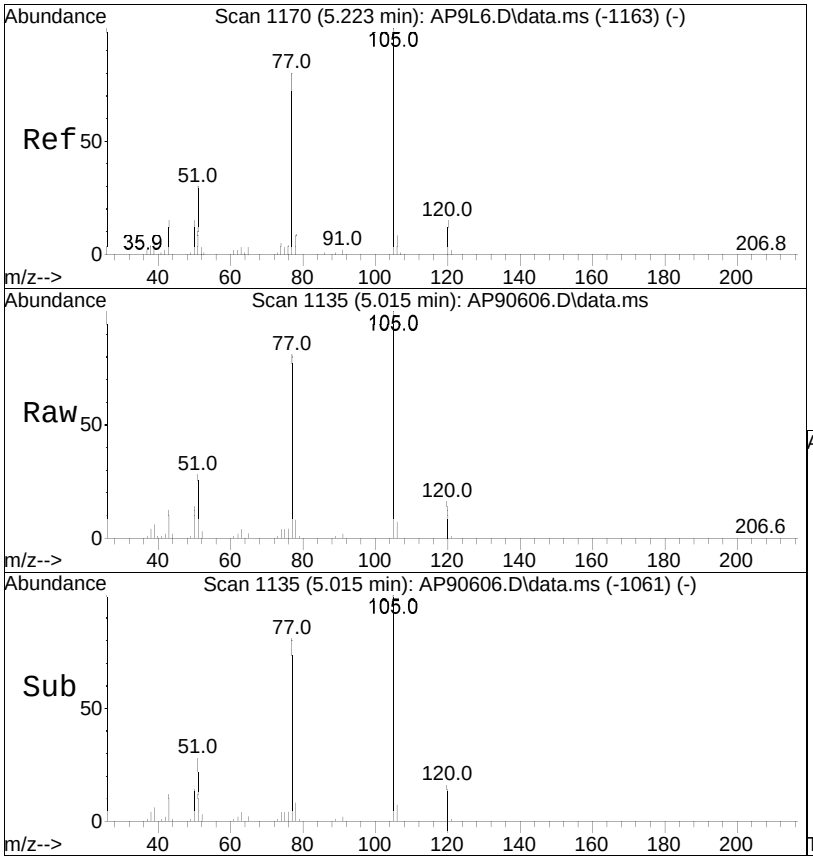


#28
Benzaldehyde
Concen: 5.21 ug/ml
RT: 4.179 min Scan# 866
Delta R.T. -0.022 min
Lab File: AP90606.D
Acq: 6 Jun 2024 1:26 pm

Tgt Ion:105 Resp: 32433

Ion	Ratio	Lower	Upper
105	100		
77	100.2	82.2	123.4

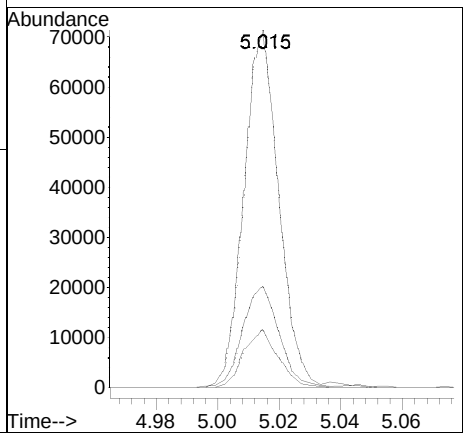


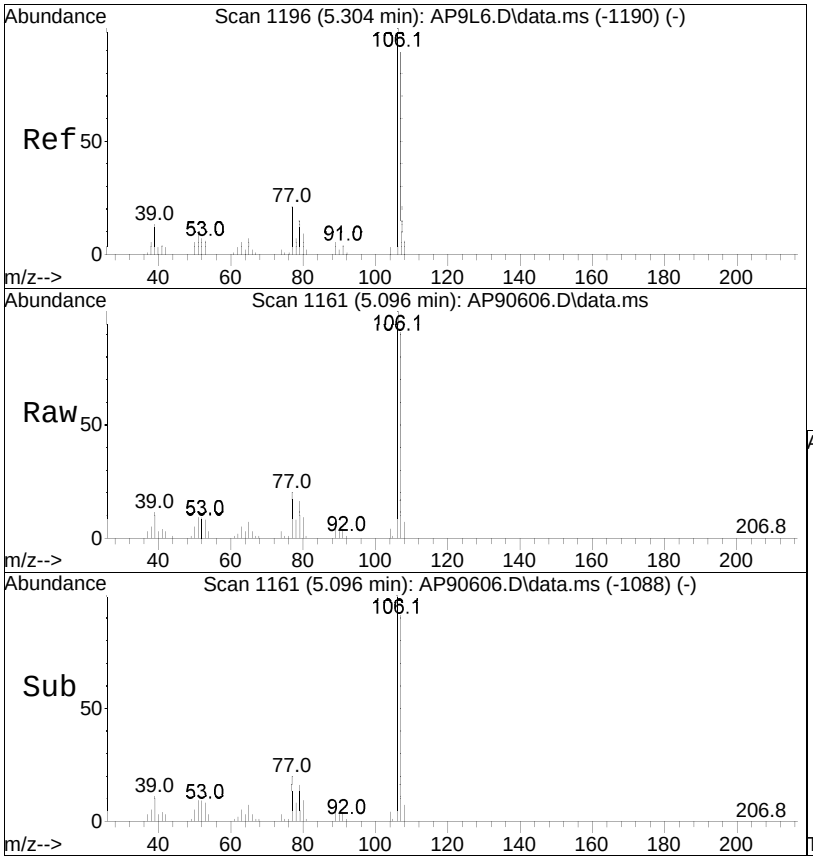


#29
Acetophenone
Concen: 5.41 ug/ml
RT: 5.015 min Scan# 1135
Delta R.T. -0.019 min
Lab File: AP90606.D
Acq: 6 Jun 2024 1:26 pm

Tgt Ion:105 Resp: 55979

Ion	Ratio	Lower	Upper
105	100		
120	16.0	20.5	30.7#
51	29.6	34.9	52.3#

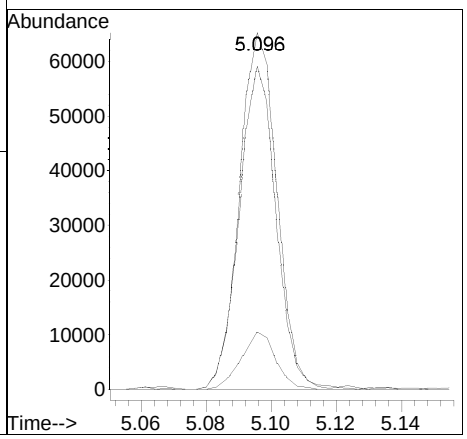


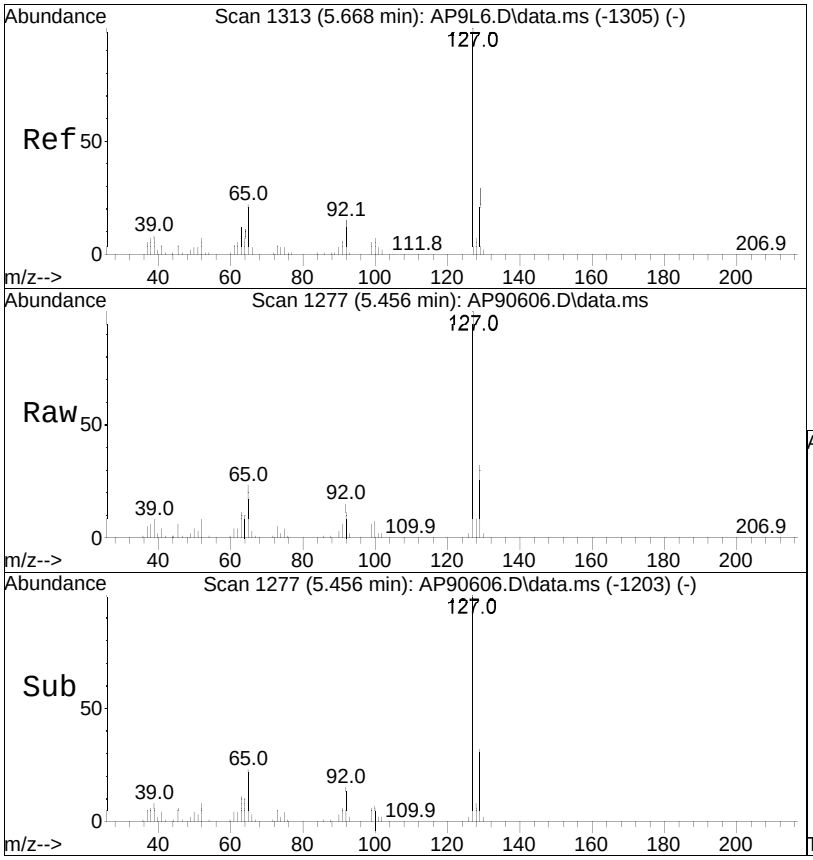


#30
m-Toluidine
Concen: 5.54 ug/ml
RT: 5.096 min Scan# 1161
Delta R.T. -0.022 min
Lab File: AP90606.D
Acq: 6 Jun 2024 1:26 pm

Tgt Ion:106 Resp: 52407

Ion	Ratio	Lower	Upper
106	100		
107	88.5	75.7	113.5
79	14.8	11.8	17.8

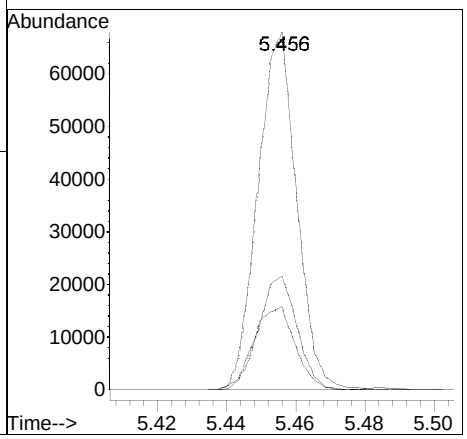


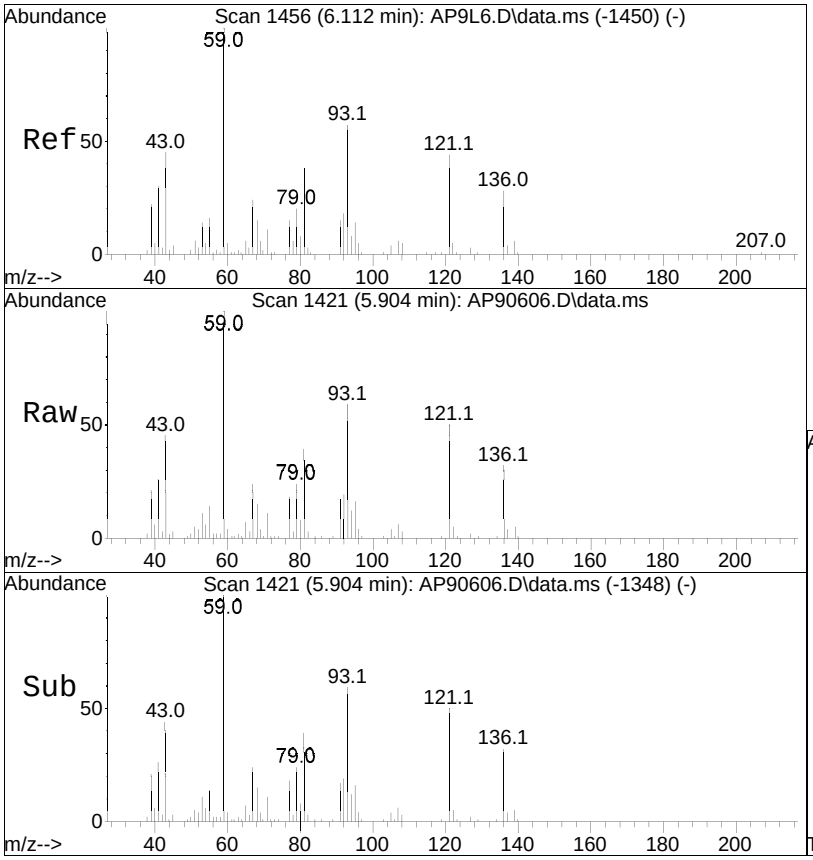


#31
2-Chloroaniline
Concen: 5.61 ug/ml
RT: 5.456 min Scan# 1277
Delta R.T. -0.019 min
Lab File: AP90606.D
Acq: 6 Jun 2024 1:26 pm

Tgt Ion:127 Resp: 52488

Ion	Ratio	Lower	Upper
127	100		
129	32.4	25.9	38.9
65	24.4	26.3	39.5#

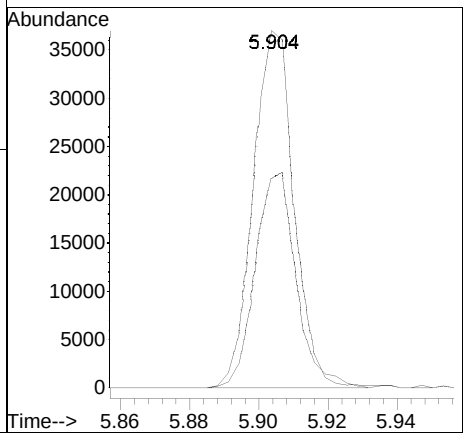


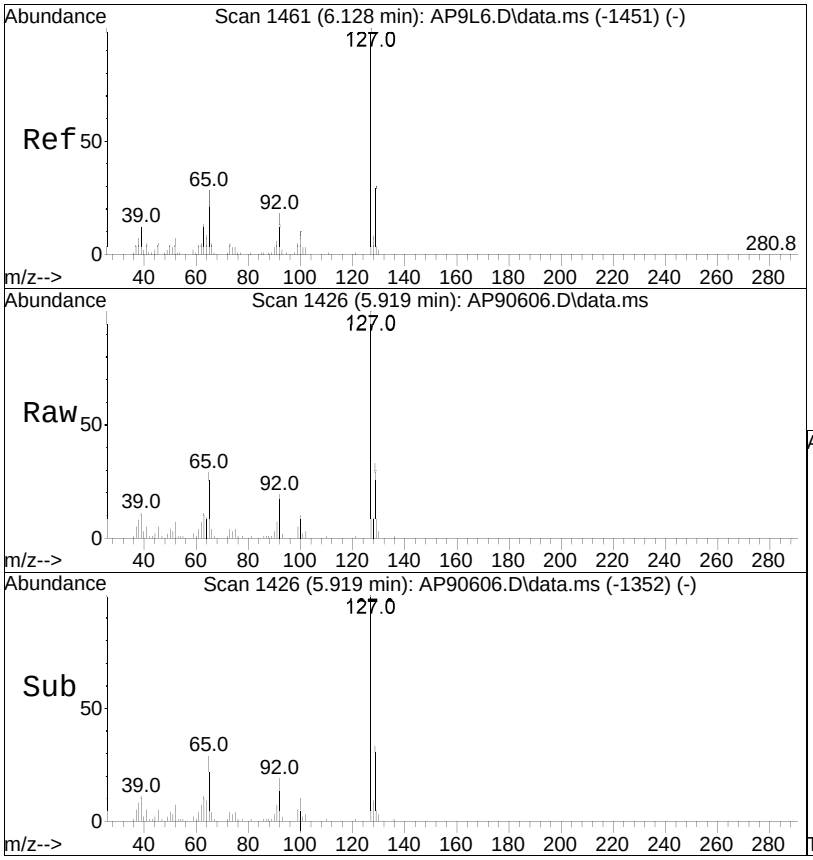


#55
a-Terpineol
Concen: 5.23 ug/ml
RT: 5.904 min Scan# 1421
Delta R.T. -0.022 min
Lab File: AP90606.D
Acq: 6 Jun 2024 1:26 pm

Tgt Ion: 59 Resp: 30083

Ion	Ratio	Lower	Upper
59	100		
93	60.7	35.6	53.4#

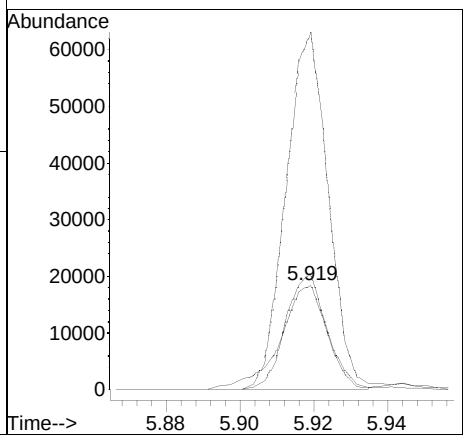


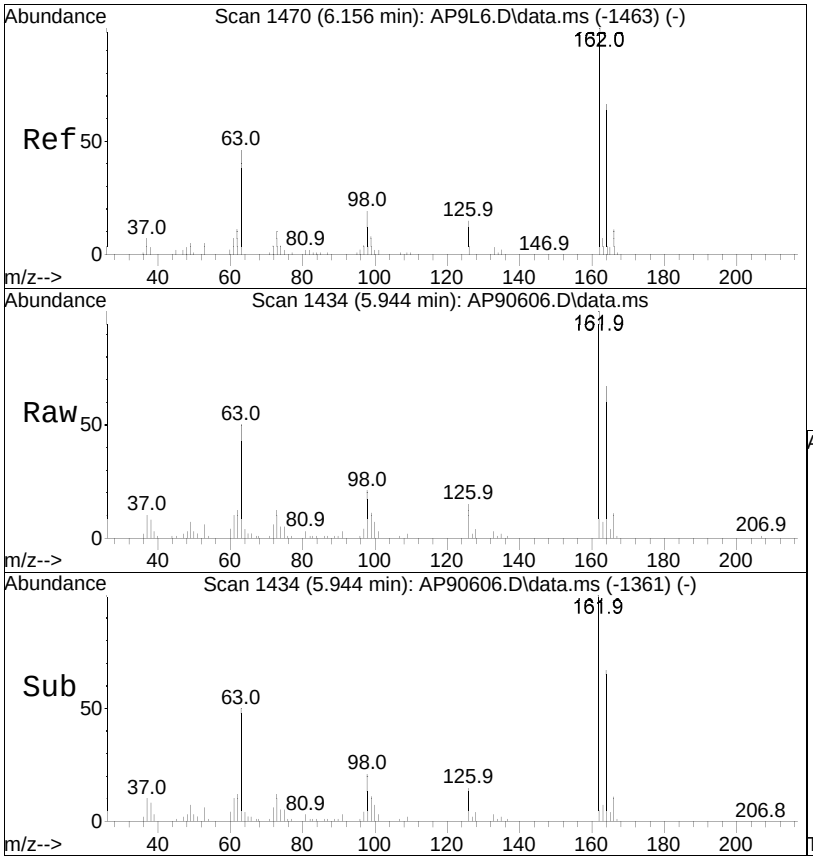


#56
3-Chloroaniline
Concen: 5.12 ug/ml
RT: 5.919 min Scan# 1426
Delta R.T. -0.019 min
Lab File: AP90606.D
Acq: 6 Jun 2024 1:26 pm

Tgt Ion: 65 Resp: 16240

Ion	Ratio	Lower	Upper
65	100		
127	311.5	243.2	364.8
129	97.6	78.8	118.2

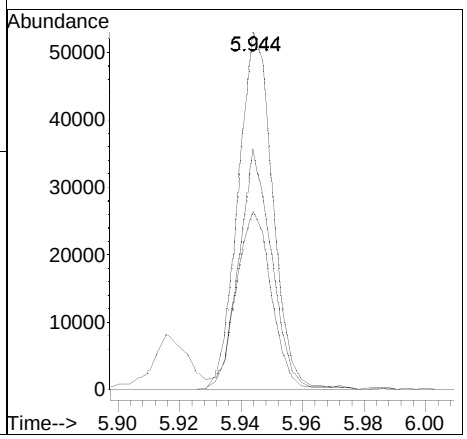


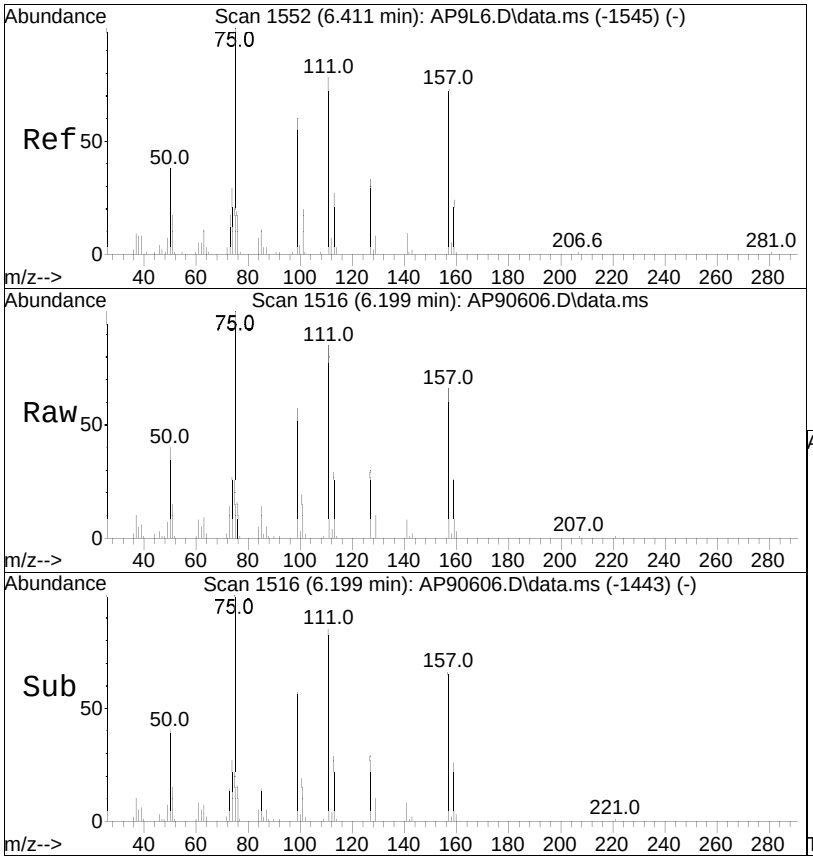


#57
2,6-Dichlorophenol
Concen: 5.56 ug/ml
RT: 5.944 min Scan# 1434
Delta R.T. -0.022 min
Lab File: AP90606.D
Acq: 6 Jun 2024 1:26 pm

Tgt Ion:162 Resp: 41196

Ion	Ratio	Lower	Upper
162	100		
164	64.1	51.1	76.7
63	49.9	60.8	91.2#

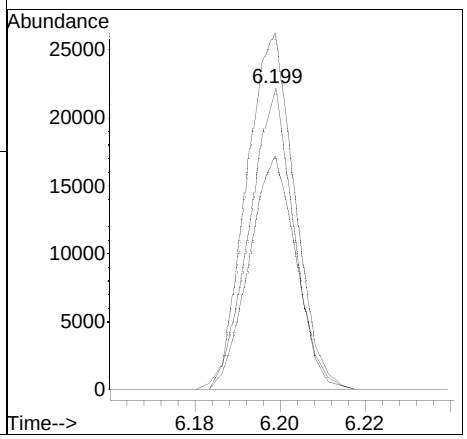


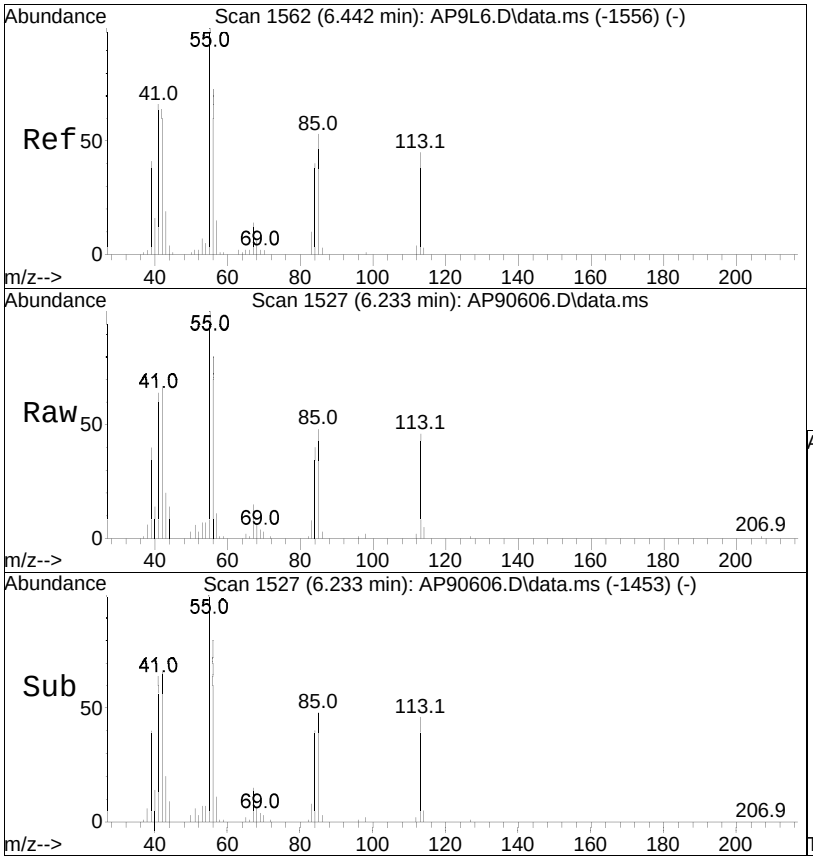


#58
1-chloro-2-nitrobenzene
Concen: 5.70 ug/ml
RT: 6.199 min Scan# 1516
Delta R.T. -0.022 min
Lab File: AP90606.D
Acq: 6 Jun 2024 1:26 pm

Tgt Ion:111 Resp: 15955

Ion	Ratio	Lower	Upper
111	100		
157	82.0	0.0	0.0#
75	129.1	28.2	42.2#

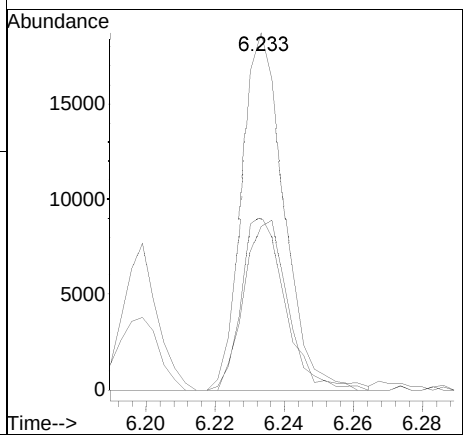


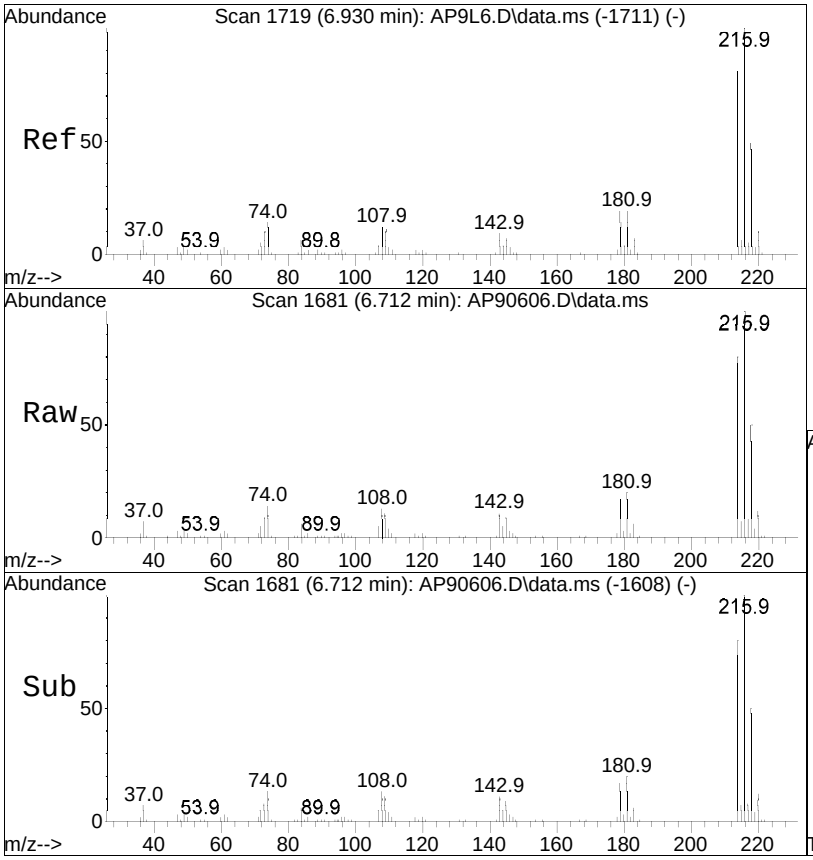


#59
Caprolactam
Concen: 5.31 ug/ml
RT: 6.233 min Scan# 1527
Delta R.T. -0.019 min
Lab File: AP90606.D
Acq: 6 Jun 2024 1:26 pm

Tgt Ion: 55 Resp: 15912

Ion	Ratio	Lower	Upper
55	100		
85	49.4	19.8	29.6#
113	49.0	29.6	44.4#

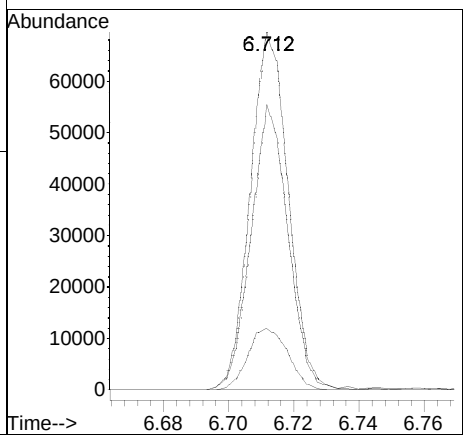


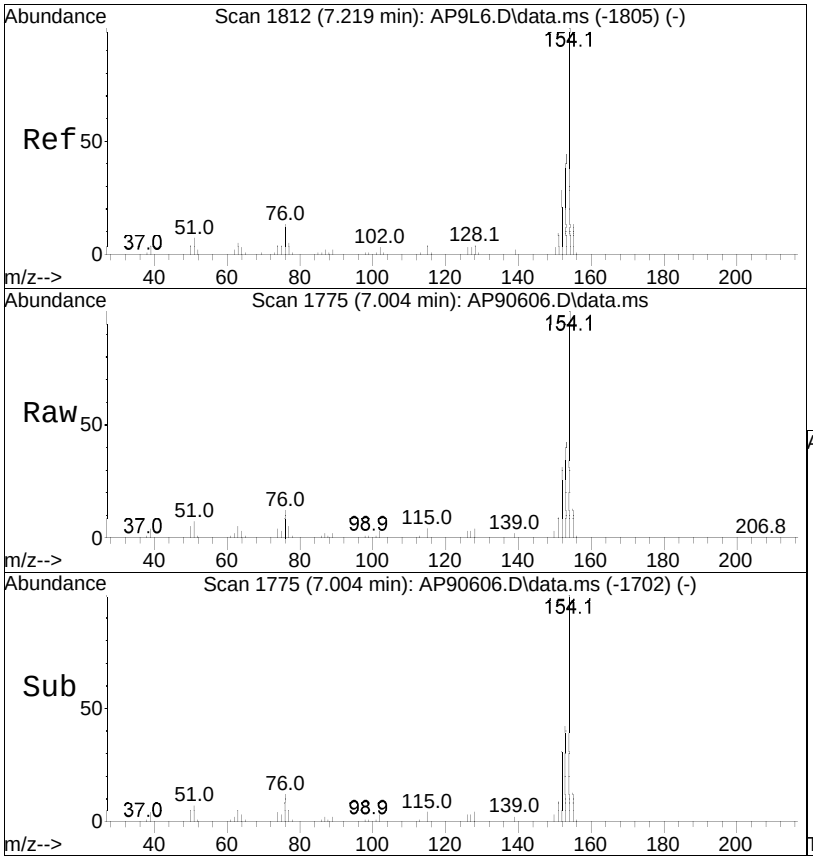


#60
1,2,4,5-Tetrachlorobenzene
Concen: 5.37 ug/ml
RT: 6.712 min Scan# 1681
Delta R.T. -0.022 min
Lab File: AP90606.D
Acq: 6 Jun 2024 1:26 pm

Tgt Ion:216 Resp: 56031

Ion	Ratio	Lower	Upper
216	100		
214	77.2	63.7	95.5
179	18.1	19.0	28.6#

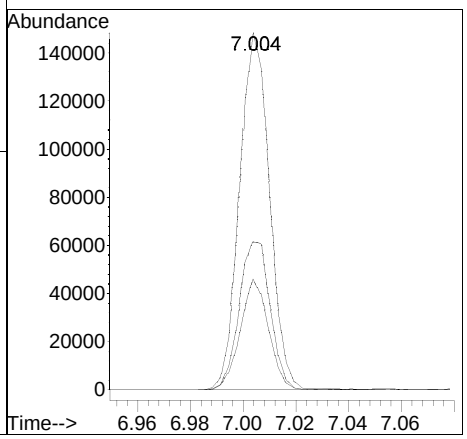


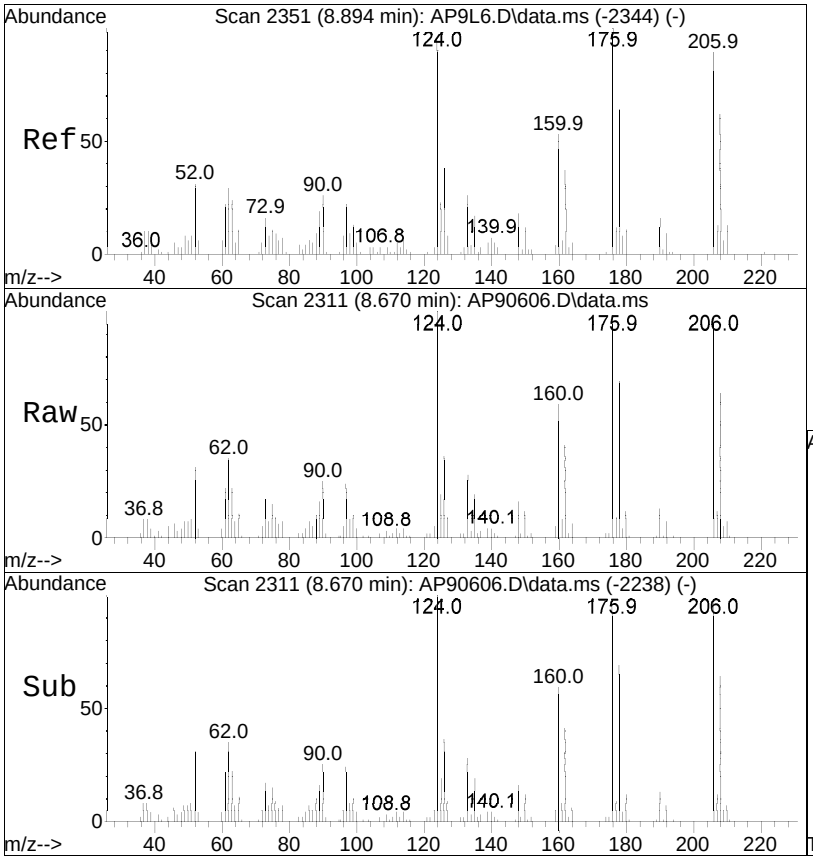


#61
Biphenyl
Concen: 5.40 ug/ml
RT: 7.004 min Scan# 1775
Delta R.T. -0.022 min
Lab File: AP90606.D
Acq: 6 Jun 2024 1:26 pm

Tgt Ion:154 Resp: 116807

Ion	Ratio	Lower	Upper
154	100		
153	43.2	32.3	48.5
152	29.5	22.5	33.7

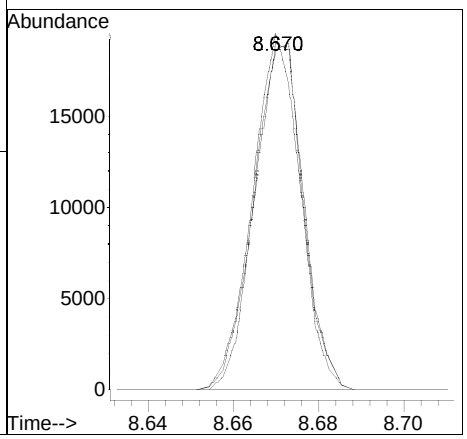


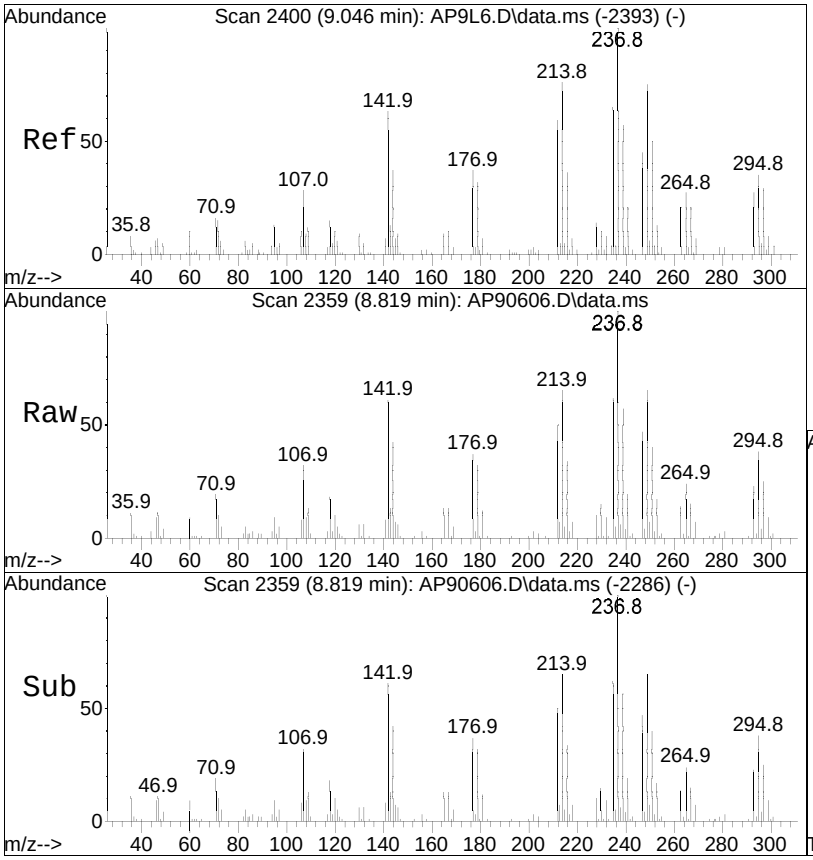


#83
Dichloran
Concen: 5.32 ug/ml
RT: 8.670 min Scan# 2311
Delta R.T. -0.022 min
Lab File: AP90606.D
Acq: 6 Jun 2024 1:26 pm

Tgt Ion:206 Resp: 15043

Ion	Ratio	Lower	Upper
206	100		
176	101.4	104.6	157.0#
124	100.7	130.5	195.7#

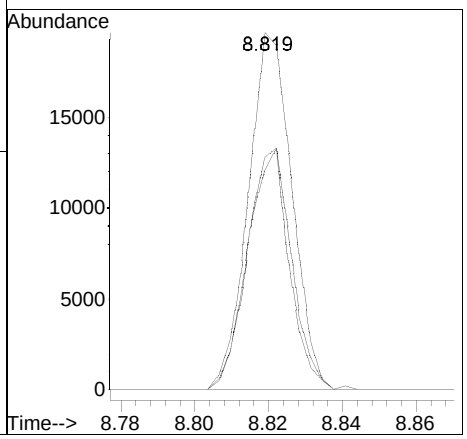


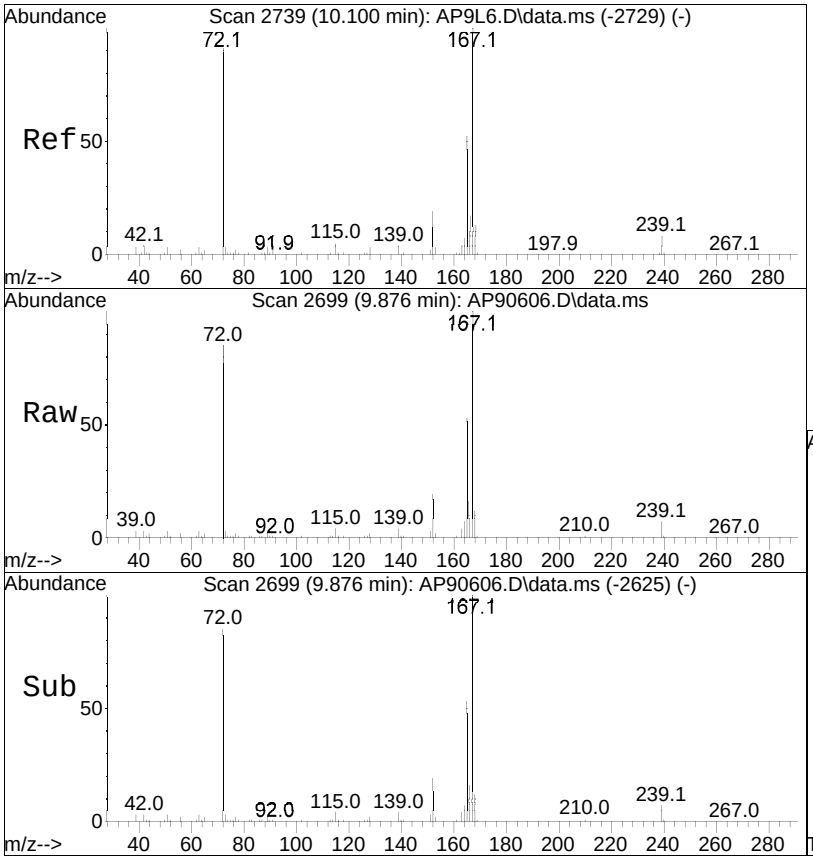


#84
Pentachloronitrobenzene
Concen: 6.21 ug/ml
RT: 8.819 min Scan# 2359
Delta R.T. -0.022 min
Lab File: AP90606.D
Acq: 6 Jun 2024 1:26 pm

Tgt Ion:237 Resp: 16129

Ion	Ratio	Lower	Upper
237	100		
142	64.1	77.0	115.4#
214	68.4	58.2	87.4

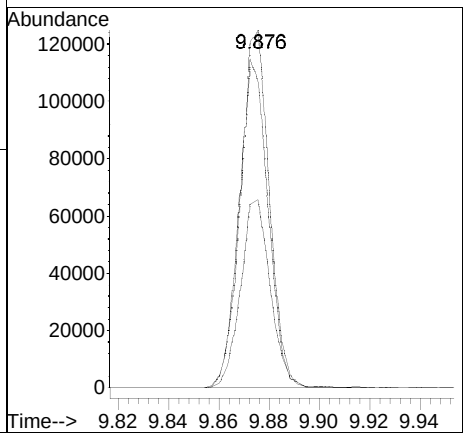




#98
Diphenamid
Concen: 5.32 ug/ml
RT: 9.876 min Scan# 2699
Delta R.T. -0.019 min
Lab File: AP90606.D
Acq: 6 Jun 2024 1:26 pm

Tgt Ion:167 Resp: 98346

Ion	Ratio	Lower	Upper
167	100		
72	92.3	109.7	164.5#
165	54.6	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\Dakota\240606RVT\	QMethod	: FS240531RVTDakota.m
Data File	: AP90606.D	Operator	: Dakota:gmr
Date Inj'd	: 6/6/2024 1:26 pm	Instrument	: Dakota
Sample	: WG1930740-4,32,,AP9 10776	Quant Date	: 6/6/2024 1:44 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240606RVT\
Data File : ADP0606.D
Acq On : 6 Jun 2024 1:48 pm
Operator : Dakota:gmr
Sample : WG1930740-5,32,,ADP 10751 gmr0518A
Misc : WG1930740,,ical21172
ALS Vial : 98 Sample Multiplier: 1

Quant Time: Jun 06 14:48:46 2024
Quant Method : I:\8270\dakota\240606RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 06 12:48:38 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	91	0.00
33	T	n-Decane		1.164	1.051	9.7	88	0.00
85	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	95	0.00
86	T	Atrazine		0.423	0.418	1.2	101	0.00
99	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	96	0.00
100	T	n-Octadecane		0.325	0.303	6.8	94	0.00
101	T	Parathion	*	5.000	5.147	-2.9	103	0.00
102	T	3,3'-Dimethylbenzidine	*	5.000	5.039	-0.8	104	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240606RVT\
Data File : ADP0606.D
Acq On : 6 Jun 2024 1:48 pm
Operator : Dakota:gmr
Sample : WG1930740-5,32,,ADP 10751 gmr0518A
Misc : WG1930740,,ical21172
ALS Vial : 98 Sample Multiplier: 1

Quant Time: Jun 06 14:48:46 2024
Quant Method : I:\8270\dakota\240606RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 06 12:48:38 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.611	152	29035	4.000	ug/ml	-0.02
85) IS3_Acenaphthene-d10	7.545	164	71961	4.000	ug/ml	-0.02
99) IS3_Phenanthrene-d10	8.971	188	169764	4.000	ug/ml	-0.02
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.505	57	38160	4.517	ug/ml#	29
86) Atrazine	8.748	200	37586	4.935	ug/ml#	89
100) n-Octadecane	8.953	57	64389	4.666	ug/ml#	1
101) Parathion	9.758	109	16895	5.147	ug/ml	92
102) 3,3'-Dimethylbenzidine	11.026	212	169465	5.039	ug/ml	98

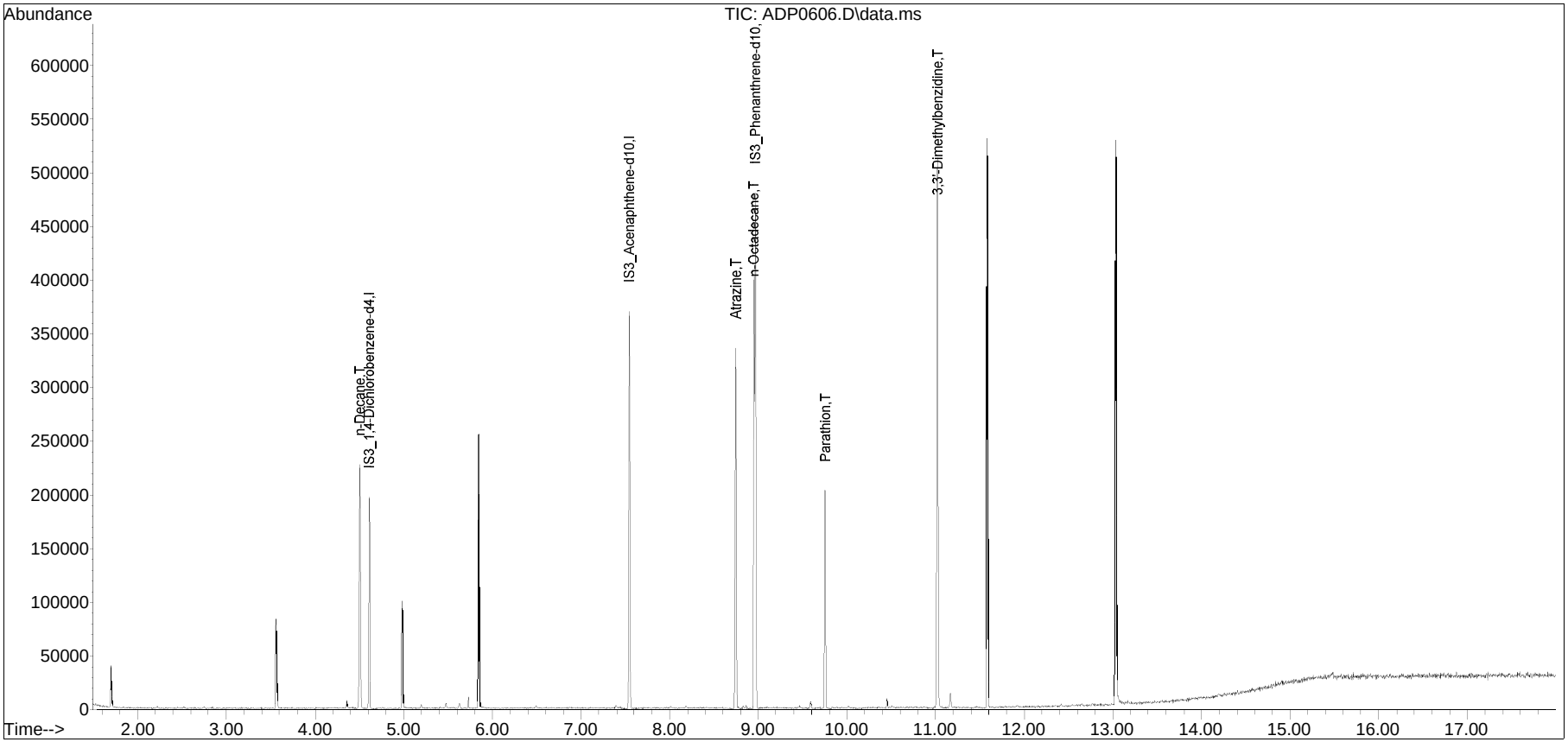
(#) = qualifier out of range (m) = manual integration (+) = signals summed

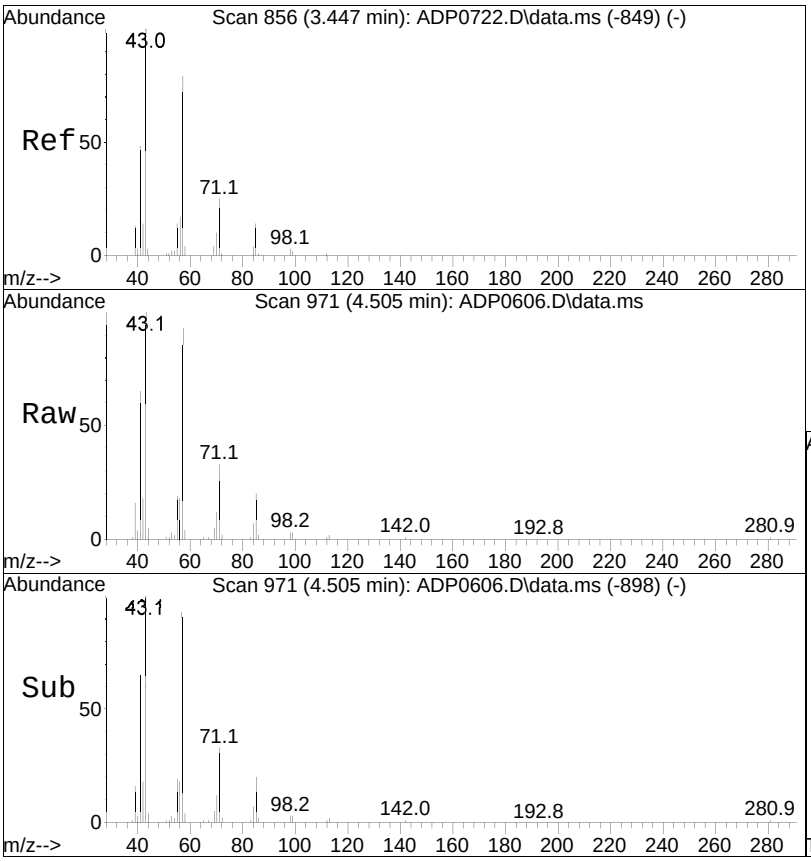
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240606RVT\
Data File : ADP0606.D
Acq On : 6 Jun 2024 1:48 pm
Operator : Dakota:gmr
Sample : WG1930740-5,32,,ADP 10751 gmr0518A
Misc : WG1930740,,ical21172
ALS Vial : 98 Sample Multiplier: 1

Quant Time: Jun 06 14:48:46 2024
Quant Method : I:\8270\dakota\240606RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 06 12:48:38 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

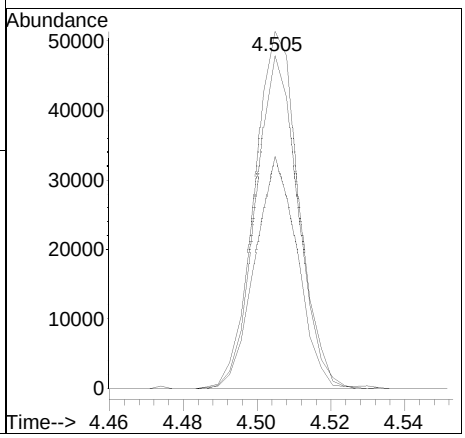


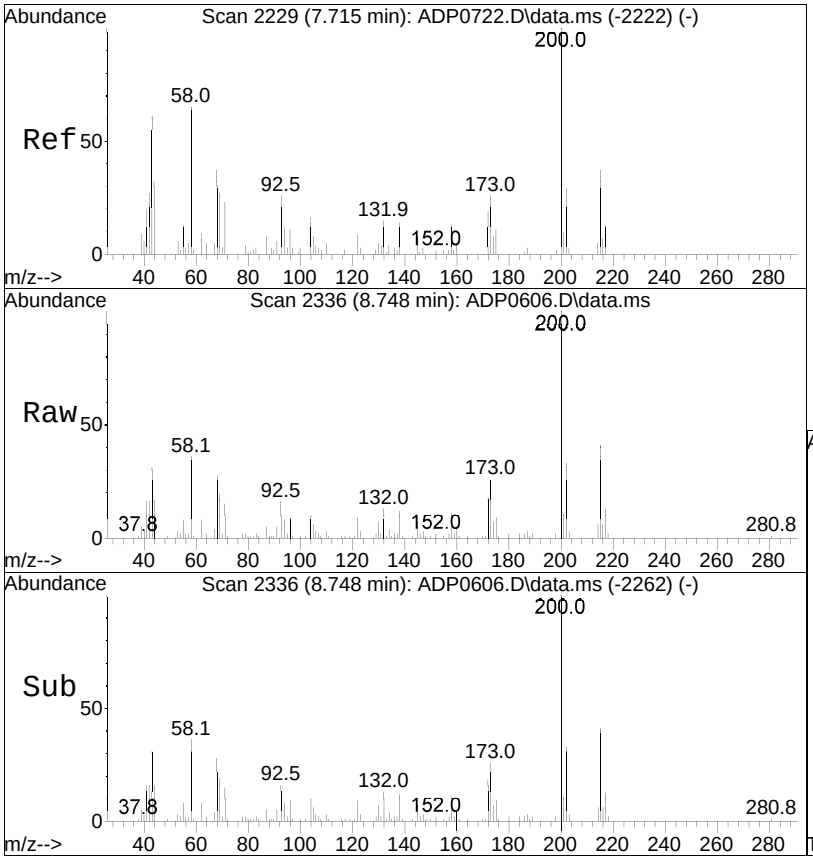


#33
n-Decane
Concen: 4.52 ug/ml
RT: 4.505 min Scan# 971
Delta R.T. -0.022 min
Lab File: ADP0606.D
Acq: 6 Jun 2024 1:48 pm

Tgt Ion: 57 Resp: 38160

Ion	Ratio	Lower	Upper
57	100		
43	112.2	0.2	0.2#
41	69.9	0.2	0.2#

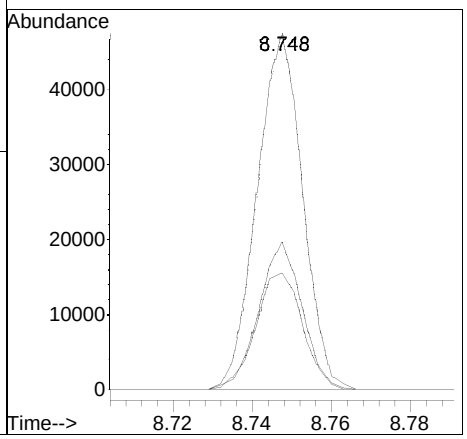


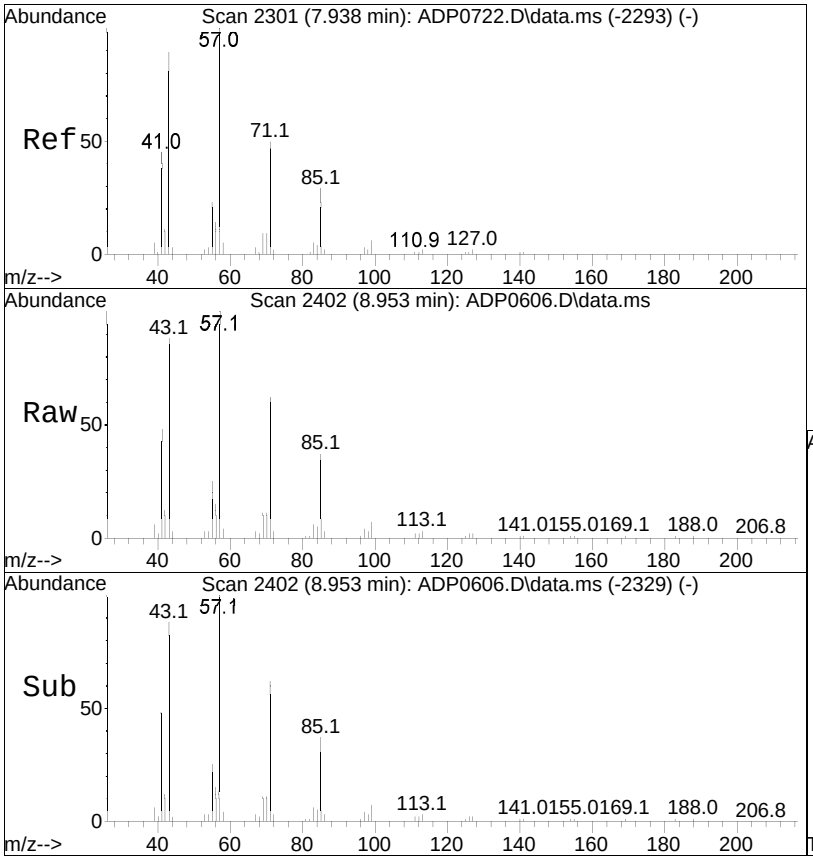


#86
Atrazine
Concen: 4.94 ug/ml
RT: 8.748 min Scan# 2336
Delta R.T. -0.019 min
Lab File: ADP0606.D
Acq: 6 Jun 2024 1:48 pm

Tgt Ion:200 Resp: 37586

Ion	Ratio	Lower	Upper
200	100		
202	33.8	25.8	38.6
215	39.6	40.2	60.4#

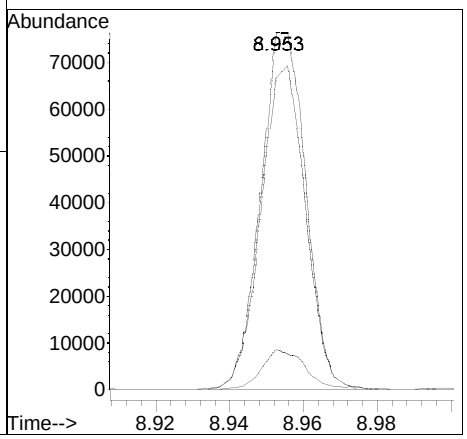


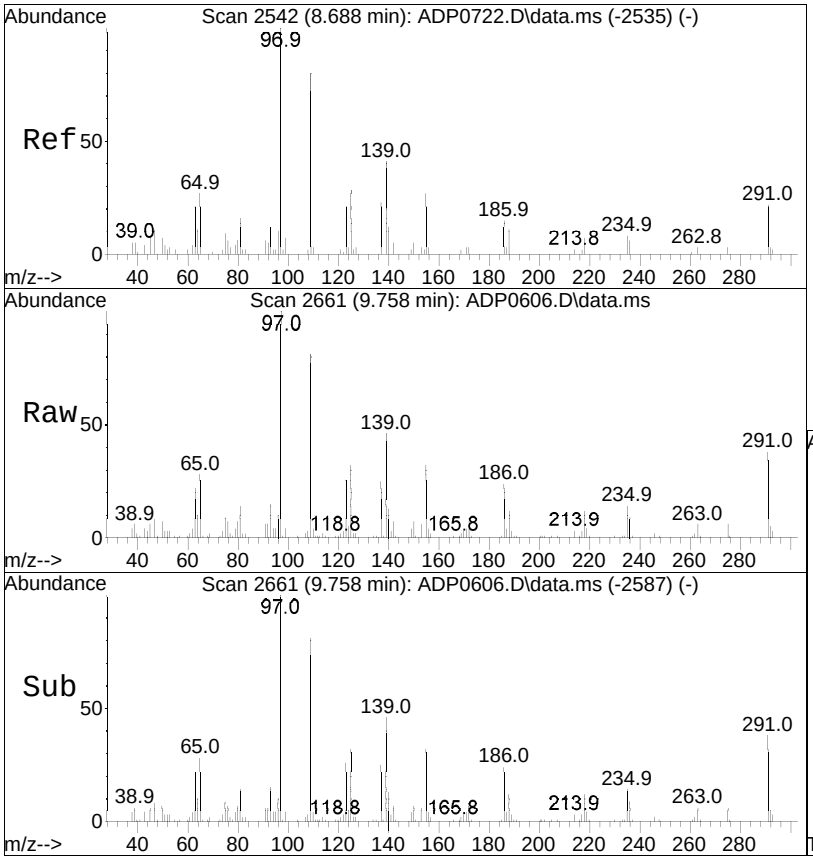


#100
n-Octadecane
Concen: 4.67 ug/ml
RT: 8.953 min Scan# 2402
Delta R.T. -0.022 min
Lab File: ADP0606.D
Acq: 6 Jun 2024 1:48 pm

Tgt Ion: 57 Resp: 64389

Ion	Ratio	Lower	Upper
57	100		
43	89.9	9.0	13.6#
70	10.9	0.2	0.2#

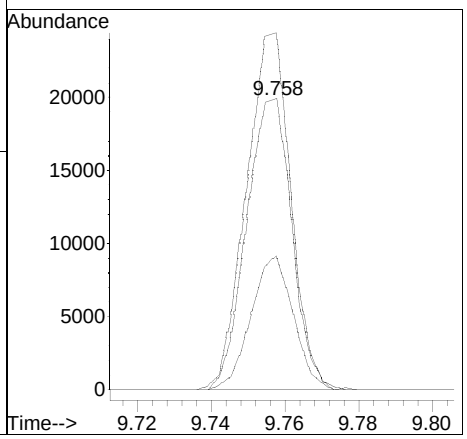


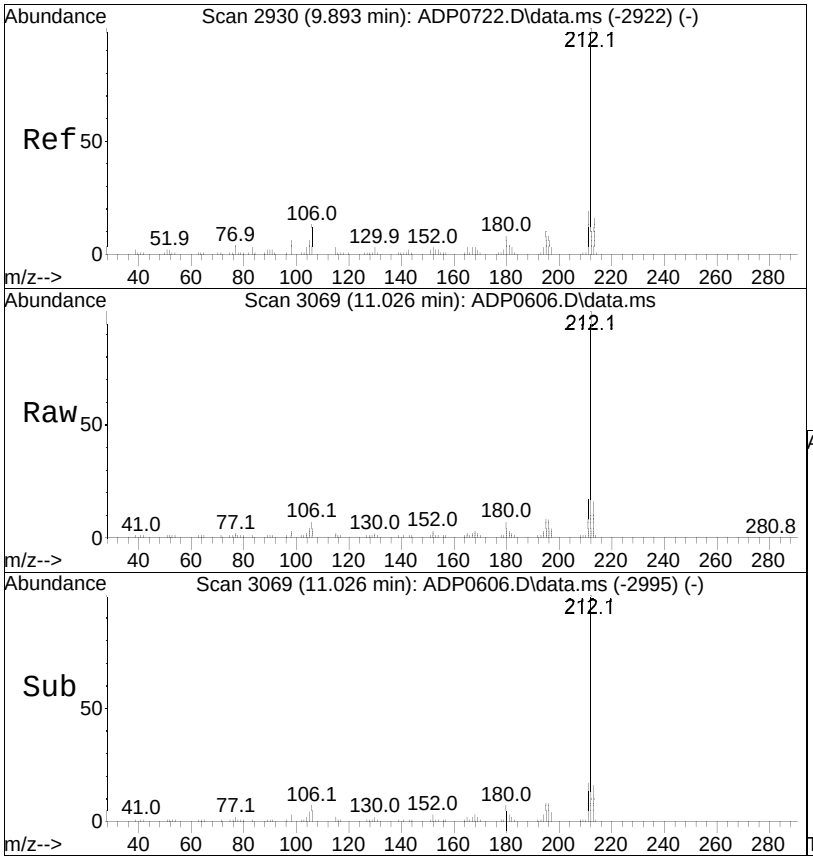


#101
Parathion
Concen: 5.15 ug/ml
RT: 9.758 min Scan# 2661
Delta R.T. -0.019 min
Lab File: ADP0606.D
Acq: 6 Jun 2024 1:48 pm

Tgt Ion:109 Resp: 16895

Ion	Ratio	Lower	Upper
109	100		
97	120.7	87.4	131.2
291	43.1	34.2	51.2

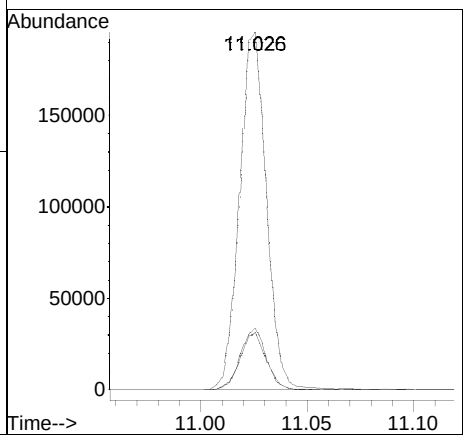




#102
3,3'-Dimethylbenzidine
Concen: 5.04 ug/ml
RT: 11.026 min Scan# 3069
Delta R.T. -0.019 min
Lab File: ADP0606.D
Acq: 6 Jun 2024 1:48 pm

Tgt Ion:212 Resp: 169465

Ion	Ratio	Lower	Upper
212	100		
211	16.9	12.9	19.3
213	15.6	13.2	19.8



Manual Integration Report

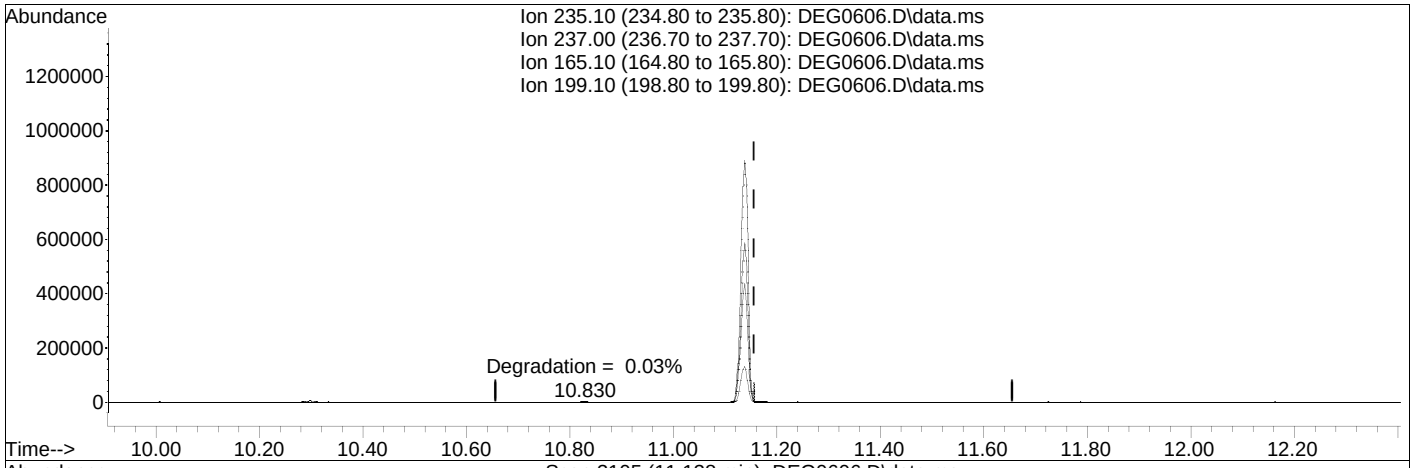
Data Path	: I:\8270\Dakota\240606RVT\	QMethod	: FS240531RVTDakota.m
Data File	: ADP0606.D	Operator	: Dakota:gmr
Date Inj'd	: 6/6/2024 1:48 pm	Instrument	: Dakota
Sample	: WG1930740-5,32,,ADP 10751	Quant Date	: 6/6/2024 2:48 pm

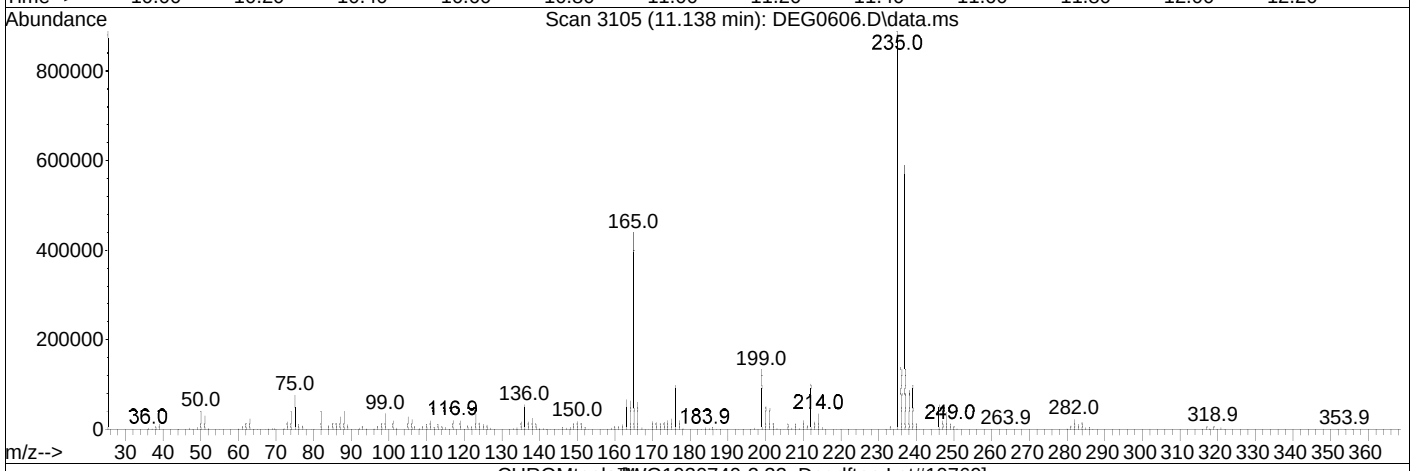
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240606RVT\
Data File : DEG0606.D
Acq On : 6 Jun 2024 12:41 pm
Operator : Dakota:HNY
Sample : WG1930740-2,32,,Degdftpp Lot#10769
Misc : WG1930740,,ical21172
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 06 13:10:10 2024
Quant Method : I:\8270\Dakota\240606RVT\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 23:21:12 2024
Response via : Initial Calibration





CHROMtools™ [WG1930740-2,32,,Degdftpp Lot#10769]

(6) DDT (T)

11.138min (-0.018) 130.71

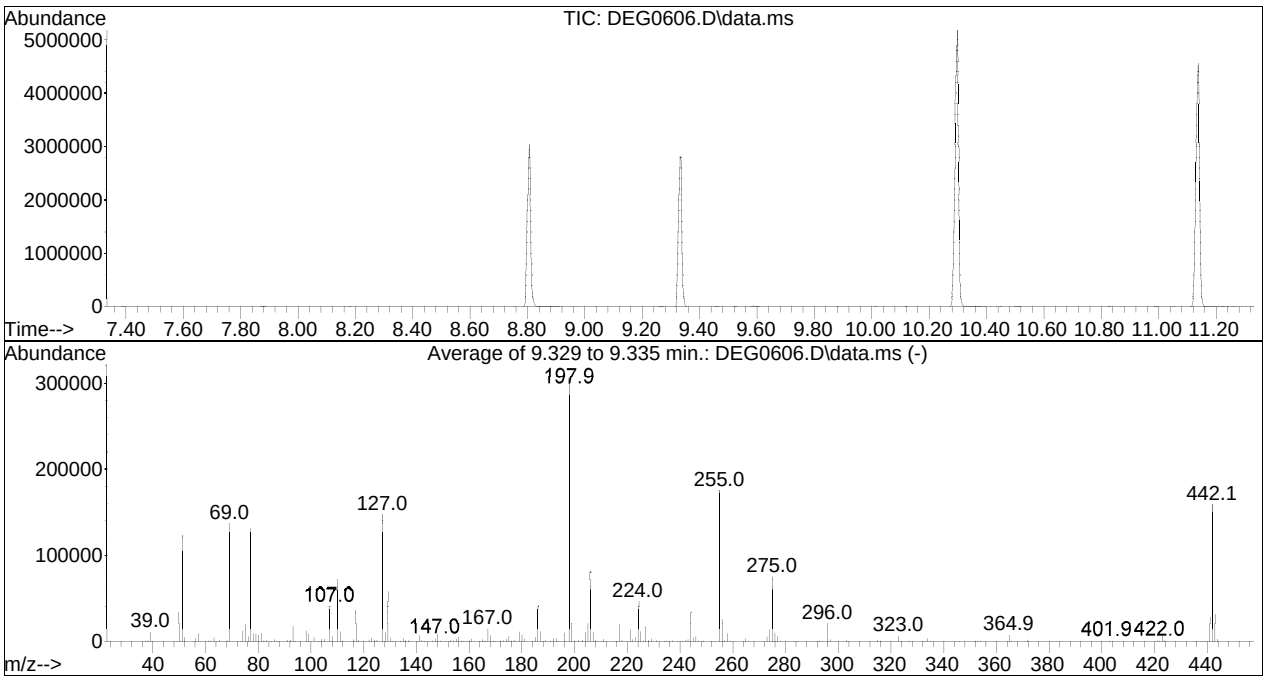
response 796768

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	66.20	64.95
165.10	47.40	47.71
199.10	13.90	14.74

Data Path : I:\8270\Dakota\240606RVT\
Data File : DEG0606.D
Acq On : 6 Jun 2024 12:41 pm
Operator : Dakota:HNY
Sample : WG1930740-1,32,,Degdftpp Lot#10769
Misc : WG1930740,,ical21172
ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\dakota\240606RVT\FS240531RVTDakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Jun 06 21:58:02 2024



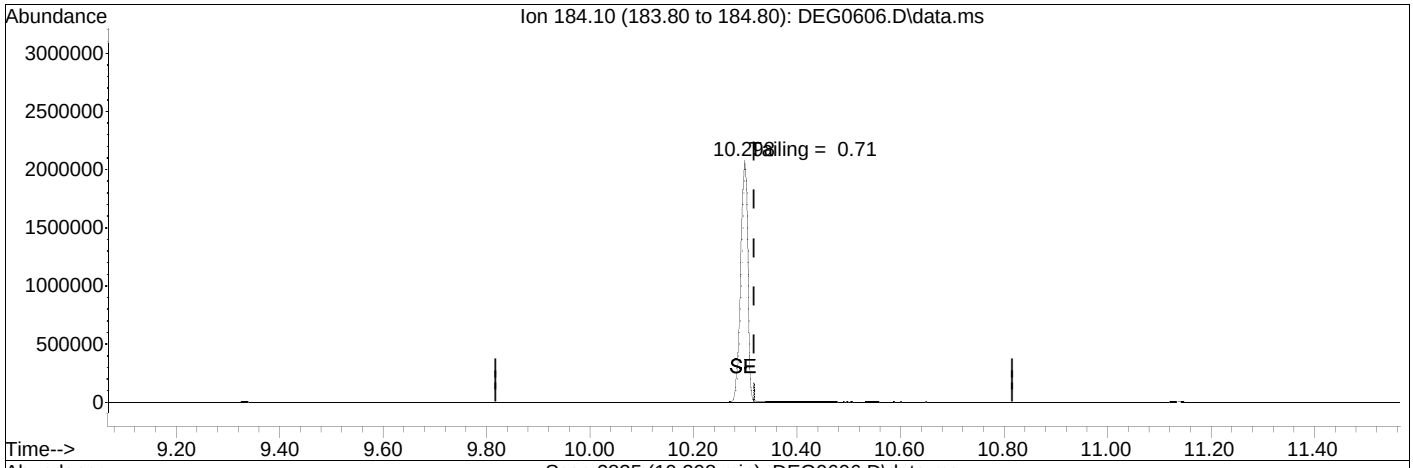
Spectrum Information: Average of 9.329 to 9.335 min.

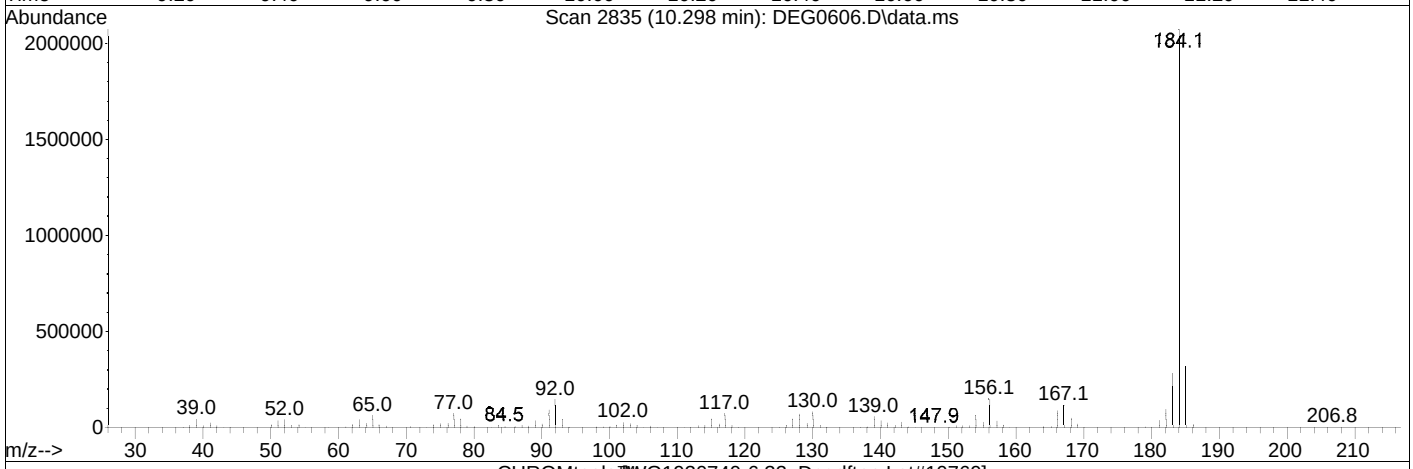
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	40.1	122832	PASS
68	69	0.00	2	1.3	1760	PASS
69	69	100	100	100.0	136675	PASS
70	69	0.00	2	0.3	417	PASS
127	198	10	80	47.9	146805	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	306453	PASS
199	198	5	9	6.9	21025	PASS
275	198	10	60	24.6	75315	PASS
365	198	1	100	2.4	7466	PASS
441	442	0.01	24	17.6	27885	PASS
442	198	50	100	51.8	158640	PASS
443	442	15	24	19.4	30840	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240606RVT\
Data File : DEG0606.D
Acq On : 6 Jun 2024 12:41 pm
Operator : Dakota:HNY
Sample : WG1930740-6,32,,Degdftpp Lot#10769
Misc : WG1930740,,ical21172
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 06 13:10:10 2024
Quant Method : I:\8270\Dakota\240606RVT\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 23:21:12 2024
Response via : Initial Calibration





CHROMtools™ [WG1930740-6,32,,Degdftpp Lot#10769]

(3) Benzidine (T)

10.298min (-0.019) 179.76

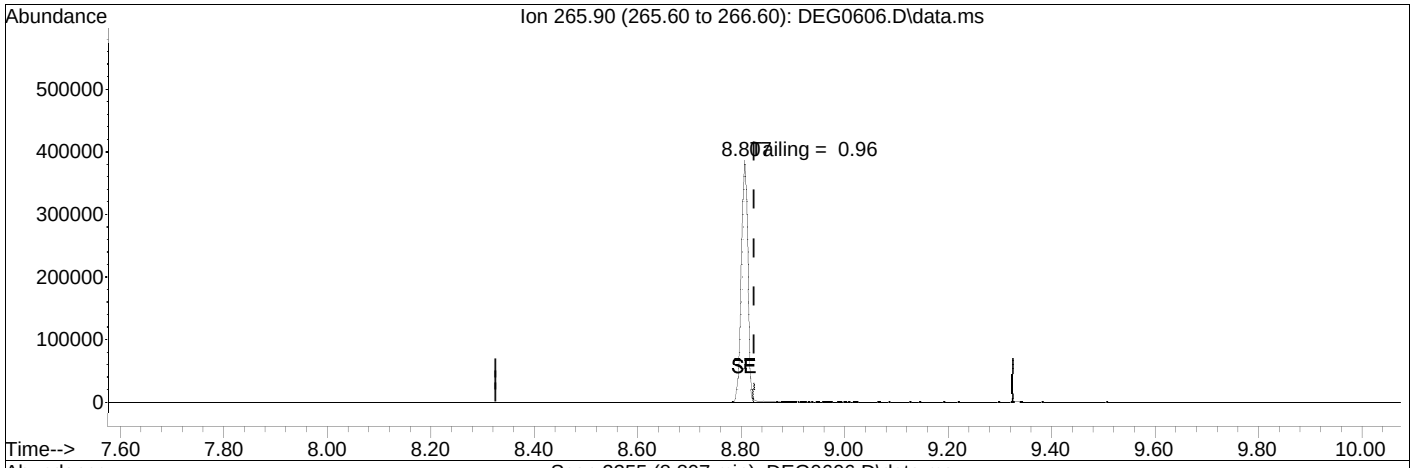
response 1829957

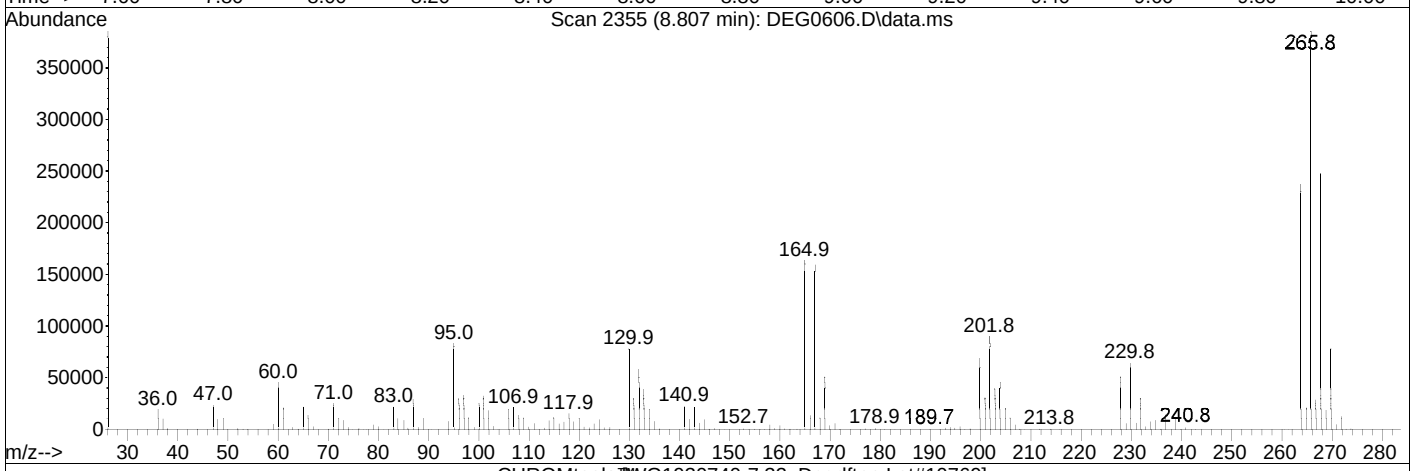
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240606RVT\
Data File : DEG0606.D
Acq On : 6 Jun 2024 12:41 pm
Operator : Dakota:HNY
Sample : WG1930740-7,32,,Degdftpp Lot#10769
Misc : WG1930740,,ical21172
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 06 13:10:10 2024
Quant Method : I:\8270\Dakota\240606RVT\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 23:21:12 2024
Response via : Initial Calibration





CHROMtools™ [WG1930740-7,32,,Degdftpp Lot#10769]

(1) Pentachlorophenol (T)

8.807min (-0.018) 148.25

response 311384

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240604RVT\
Data File : 929069-1.D
Acq On : 5 Jun 2024 1:48 am
Operator : SV107:sz
Sample : WG1929069-1,32,,ASK
Misc : WG1929711,WG1929069,ical21169
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 15:41:25 2024
Quant Method : I:\8270\sv107\240604RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 02:09:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240604RVT\ABN0604.D
: 2 - I:\8270\sv107\240604RVT\ADP0604.D
: 3 - I:\8270\sv107\240604RVT\AP90604.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.534	152	54578	4.000	ug/ml		0.00
Standard Area 1 = 52630			Recovery = 103.70%				
27) IS2_1,4-Dichlorobenzen...	6.534	152	54578	4.000	ug/ml		0.00
Standard Area 3 = 50356			Recovery = 108.38%				
32) IS3_1,4-Dichlorobenzen...	6.534	152	54578	4.000	ug/ml		0.00
Standard Area 2 = 52597			Recovery = 103.77%				
34) IS1_Naphthalene-d8	7.957	136	200706	4.000	ug/ml		0.00
Standard Area 1 = 197654			Recovery = 101.54%				
54) IS2_Naphthalene-d8	7.957	136	200706	4.000	ug/ml		0.00
Standard Area 3 = 193831			Recovery = 103.55%				
62) IS1_Acenaphthene-d10	9.727	164	119076	4.000	ug/ml		0.00
Standard Area 1 = 122929			Recovery = 96.87%				
82) IS2_Acenaphthene-d10	9.727	164	119076	4.000	ug/ml		0.00
Standard Area 3 = 119793			Recovery = 99.40%				
85) IS3_Acenaphthene-d10	9.727	164	119076	4.000	ug/ml		0.00
Standard Area 2 = 119476			Recovery = 99.67%				
87) IS1_Phenanthrene-d10	11.169	188	246510	4.000	ug/ml		0.00
Standard Area 1 = 245414			Recovery = 100.45%				
99) IS3_Phenanthrene-d10	11.169	188	246510	4.000	ug/ml	#	0.00
Standard Area 2 = 258227			Recovery = 95.46%				
103) IS1_Chrysene-d12	13.833	240	211775	4.000	ug/ml		0.00
Standard Area 1 = 226686			Recovery = 93.42%				
112) IS1_Perylene-d12	15.321	264	215273	4.000	ug/ml		0.00
Standard Area 1 = 226371			Recovery = 95.10%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.692	112	45106	3.092	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 154.60%#				
7) Phenol-d6	6.157	99	47960	2.659	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 132.95%#				
19) Nitrobenzene-d5	7.186	82	28791	1.812	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 181.20%#				
45) 2-Fluorobiphenyl	9.080	172	82089	1.889	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 188.90%#				
78) 2,4,6-Tribromophenol	10.498	330	16349	3.220	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 161.00%#				

Data Path : I:\8270\SV107\240604RVT\
Data File : 929069-1.D
Acq On : 5 Jun 2024 1:48 am
Operator : SV107:sz
Sample : WG1929069-1,32,,ASK
Misc : WG1929711,WG1929069,ical21169
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 15:41:25 2024
Quant Method : I:\8270\sv107\240604RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 02:09:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240604RVT\ABN0604.D
: 2 - I:\8270\sv107\240604RVT\ADP0604.D
: 3 - I:\8270\sv107\240604RVT\AP90604.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 4-Terphenyl-d14	12.763	244	112802	2.092	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 209.20%#

Target Compounds				Qvalue
6) 2-Chlorophenol	0.000	0	N.D.	
8) Phenol	0.000	0	N.D.	
9) Bis(2-chloroethyl)ether	0.000	0	N.D.	
14) Bis(2-chloroisopropyl)...	0.000	0	N.D.	
15) 2-Methylphenol	0.000	0	N.D.	
17) n-Nitrosodi-n-propylamine	0.000	0	N.D.	
18) 3-Methylphenol/4-Methy...	0.000	0	N.D.	
20) Nitrobenzene	0.000	0	N.D.	
21) Isophorone	0.000	0	N.D.	
22) 2-Nitrophenol	0.000	0	N.D.	
23) 2,4-Dimethylphenol	0.000	0	N.D.	d
24) Bis(2-chloroethoxy)met...	0.000	0	N.D.	
25) 2,4-Dichlorophenol	0.000	0	N.D.	
28) Benzaldehyde	0.000	0	N.D.	
29) Acetophenone	0.000	0	N.D.	
37) 4-Chloroaniline	0.000	0	N.D.	d
39) p-Chloro-m-cresol	0.000	0	N.D.	
42) Hexachlorocyclopentadiene	0.000	0	N.D.	
43) 2,4,6-Trichlorophenol	0.000	0	N.D.	
44) 2,4,5-Trichlorophenol	0.000	0	N.D.	
47) 2-Nitroaniline	0.000	0	N.D.	
50) Dimethyl phthalate	0.000	0	N.D.	
52) 2,6-Dinitrotoluene	0.000	0	N.D.	
59) Caprolactam	0.000	0	N.D.	
60) 1,2,4,5-Tetrachloroben...	0.000	0	N.D.	
61) Biphenyl	0.000	0	N.D.	
63) 3-Nitroaniline	0.000	0	N.D.	
65) 2,4-Dinitrophenol	0.000	0	N.D.	
66) Dibenzofuran	0.000	0	N.D.	
67) 2,4-Dinitrotoluene	0.000	0	N.D.	
68) 4-Nitrophenol	0.000	0	N.D.	
70) 2,3,4,6-Tetrachlorophenol	0.000	0	N.D.	
71) Diethyl phthalate	0.000	0	N.D.	

Data Path : I:\8270\SV107\240604RVT\
Data File : 929069-1.D
Acq On : 5 Jun 2024 1:48 am
Operator : SV107:sz
Sample : WG1929069-1,32,,ASK
Misc : WG1929711,WG1929069,ical21169
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 15:41:25 2024
Quant Method : I:\8270\sv107\240604RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 02:09:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240604RVT\ABN0604.D
: 2 - I:\8270\sv107\240604RVT\ADP0604.D
: 3 - I:\8270\sv107\240604RVT\AP90604.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
76) NDPA/DPA	0.000		0	N.D.		
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
86) Atrazine	0.000		0	N.D.		
90) Carbazole	0.000		0	N.D.		
91) Di-n-butylphthalate	0.000		0	N.D.	d	
96) Butyl benzyl phthalate	0.000		0	N.D.		
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108) Di-n-octylphthalate	0.000		0	N.D.	d	

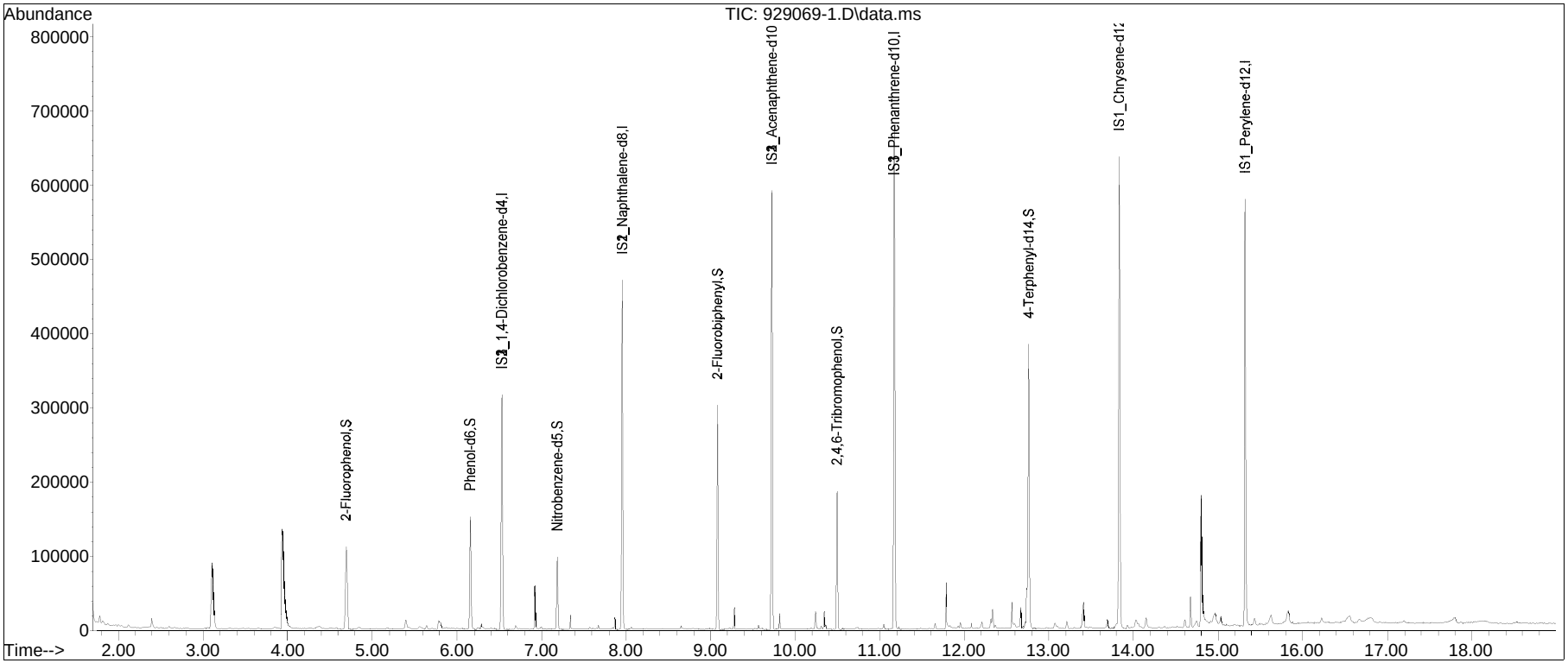
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240604RVT\
Data File : 929069-1.D
Acq On : 5 Jun 2024 1:48 am
Operator : SV107:sz
Sample : WG1929069-1,32,,ASK
Misc : WG1929711,WG1929069,ical21169
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 15:41:25 2024
Quant Method : I:\8270\sv107\240604RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 02:09:03 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MARVT\AP90604.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240604RVT\	QMethod	: FS240602SV107RVT.m
Data File	: 929069-1.D	Operator	: SV107:sz
Date Inj'd	: 6/5/2024 1:48 am	Instrument	: SV107
Sample	: WG1929069-1,32,,ASK	Quant Date	: 6/5/2024 2:09 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240604RVT\
Data File : 929069-2.D
Acq On : 5 Jun 2024 2:16 am
Operator : SV107:sz
Sample : WG1929069-2,32,,ASK
Misc : WG1929711,WG1929069,ical21169
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:42:08 2024
Quant Method : I:\8270\sv107\240604RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 02:36:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240604RVT\ABN0604.D
: 2 - I:\8270\sv107\240604RVT\ADP0604.D
: 3 - I:\8270\sv107\240604RVT\AP90604.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.534	152	55131	4.000	ug/ml		0.00
Standard Area 1 = 52630			Recovery = 104.75%				
27) IS2_1,4-Dichlorobenzen...	6.534	152	55131	4.000	ug/ml		0.00
Standard Area 3 = 50356			Recovery = 109.48%				
32) IS3_1,4-Dichlorobenzen...	6.534	152	55131	4.000	ug/ml		0.00
Standard Area 2 = 52597			Recovery = 104.82%				
34) IS1_Naphthalene-d8	7.957	136	200301	4.000	ug/ml		0.00
Standard Area 1 = 197654			Recovery = 101.34%				
54) IS2_Naphthalene-d8	7.957	136	200301	4.000	ug/ml		0.00
Standard Area 3 = 193831			Recovery = 103.34%				
62) IS1_Acenaphthene-d10	9.727	164	124635	4.000	ug/ml		0.00
Standard Area 1 = 122929			Recovery = 101.39%				
82) IS2_Acenaphthene-d10	9.727	164	124635	4.000	ug/ml		0.00
Standard Area 3 = 119793			Recovery = 104.04%				
85) IS3_Acenaphthene-d10	9.727	164	124635	4.000	ug/ml		0.00
Standard Area 2 = 119476			Recovery = 104.32%				
87) IS1_Phenanthrene-d10	11.174	188	251974	4.000	ug/ml		0.00
Standard Area 1 = 245414			Recovery = 102.67%				
99) IS3_Phenanthrene-d10	11.174	188	251974	4.000	ug/ml		0.00
Standard Area 2 = 258227			Recovery = 97.58%				
103) IS1_Chrysene-d12	13.839	240	231354	4.000	ug/ml	#	0.00
Standard Area 1 = 226686			Recovery = 102.06%				
112) IS1_Perylene-d12	15.321	264	226725	4.000	ug/ml		0.00
Standard Area 1 = 226371			Recovery = 100.16%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.704	112	43702	2.966	ug/ml		0.02
Spiked Amount 2.000	Range 15 - 110		Recovery = 148.30%#				
7) Phenol-d6	6.163	99	47906	2.630	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 131.50%#				
19) Nitrobenzene-d5	7.186	82	26678	1.662	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 166.20%#				
45) 2-Fluorobiphenyl	9.080	172	73211	1.688	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 168.80%#				
78) 2,4,6-Tribromophenol	10.504	330	18896	3.556	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 177.80%#				

Data Path : I:\8270\SV107\240604RVT\
Data File : 929069-2.D
Acq On : 5 Jun 2024 2:16 am
Operator : SV107:sz
Sample : WG1929069-2,32,,ASK
Misc : WG1929711,WG1929069,ical21169
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:42:08 2024
Quant Method : I:\8270\sv107\240604RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 02:36:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240604RVT\ABN0604.D
: 2 - I:\8270\sv107\240604RVT\ADP0604.D
: 3 - I:\8270\sv107\240604RVT\AP90604.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 4-Terphenyl-d14	12.763	244	101231	1.836	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 183.60%#			
Target Compounds						Qvalue
6) 2-Chlorophenol	6.275	128	53753	3.310	ug/ml	94
8) Phenol	6.181	94	54043	2.726	ug/ml	97
9) Bis(2-chloroethyl)ether	6.257	93	53071	3.249	ug/ml	86
14) Bis(2-chloroisopropyl)...	6.910	45	71311	3.188	ug/ml#	43
15) 2-Methylphenol	6.910	108	48304	3.400	ug/ml	98
17) n-Nitrosodi-n-propylamine	7.057	70	40562	3.347	ug/ml#	92
18) 3-Methylphenol/4-Methy...	7.092	108	53352	3.570	ug/ml	100
20) Nitrobenzene	7.210	77	54668	3.314	ug/ml	97
21) Isophorone	7.486	82	107497	3.376	ug/ml	96
22) 2-Nitrophenol	7.563	139	23067	3.139	ug/ml#	91
23) 2,4-Dimethylphenol	7.663	107	46426	3.097	ug/ml	99
24) Bis(2-chloroethoxy)met...	7.757	93	71273	3.430	ug/ml#	97
25) 2,4-Dichlorophenol	7.833	162	53652	3.559	ug/ml	95
28) Benzaldehyde	5.969	105	44557	3.158	ug/ml	98
29) Acetophenone	7.028	105	80600	3.304	ug/ml#	81
37) 4-Chloroaniline	8.057	65	18985	3.018	ug/ml	95
39) p-Chloro-m-cresol	8.586	107	52771	3.870	ug/ml	97
42) Hexachlorocyclopentadiene	8.880	237	26638	2.592	ug/ml	96
43) 2,4,6-Trichlorophenol	8.998	196	43663	3.682	ug/ml	98
44) 2,4,5-Trichlorophenol	9.027	196	50210	3.993	ug/ml	97
47) 2-Nitroaniline	9.292	138	33335	3.847	ug/ml	92
50) Dimethyl phthalate	9.498	163	156939	3.737	ug/ml#	98
52) 2,6-Dinitrotoluene	9.539	165	29356	3.843	ug/ml#	84
59) Caprolactam	8.375	55	12870	1.723	ug/ml#	71
60) 1,2,4,5-Tetrachloroben...	8.875	216	65733	3.265	ug/ml	97
61) Biphenyl	9.175	154	161569	3.473	ug/ml	100
63) 3-Nitroaniline	9.698	138	30003	3.711	ug/ml	99
65) 2,4-Dinitrophenol	9.798	184	7062	2.272	ug/ml	95
66) Dibenzofuran	9.933	168	195095	3.565	ug/ml	92
67) 2,4-Dinitrotoluene	9.933	165	39336	3.400	ug/ml	95
68) 4-Nitrophenol	9.880	65	23508	3.408	ug/ml#	89
70) 2,3,4,6-Tetrachlorophenol	10.063	232	38023	3.889	ug/ml	99
71) Diethyl phthalate	10.192	149	147547	3.639	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240604RVT\
Data File : 929069-2.D
Acq On : 5 Jun 2024 2:16 am
Operator : SV107:sz
Sample : WG1929069-2,32,,ASK
Misc : WG1929711,WG1929069,ical21169
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:42:08 2024
Quant Method : I:\8270\sv107\240604RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 02:36:41 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240604RVT\ABN0604.D
: 2 - I:\8270\sv107\240604RVT\ADP0604.D
: 3 - I:\8270\sv107\240604RVT\AP90604.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73) 4-Chlorophenyl phenyl ...	10.280	204	74729	3.569	ug/ml	88
74) 4-Nitroaniline	10.286	138	29833	3.648	ug/ml#	86
75) 4,6-Dinitro-o-cresol	10.327	198	18119	3.073	ug/ml#	72
76) NDPA/DPA	10.398	169	130006	3.688	ug/ml	94
79) 4-Bromophenyl phenyl e...	10.757	248	41654	3.552	ug/ml#	88
86) Atrazine	10.939	200	43968	4.065	ug/ml	95
90) Carbazole	11.410	167	228484	3.908	ug/ml	98
91) Di-n-butylphthalate	11.798	149	259238	3.782	ug/ml	99
96) Butyl benzyl phthalate	13.298	149	113741	3.617	ug/ml	92
105) 3,3'-Dichlorobenzidine	13.827	252	85907	3.455	ug/ml#	97
107) Bis(2-ethylhexyl)phtha...	13.939	149	171988	3.509	ug/ml#	96
108) Di-n-octylphthalate	14.627	149	271023	3.480	ug/ml#	73

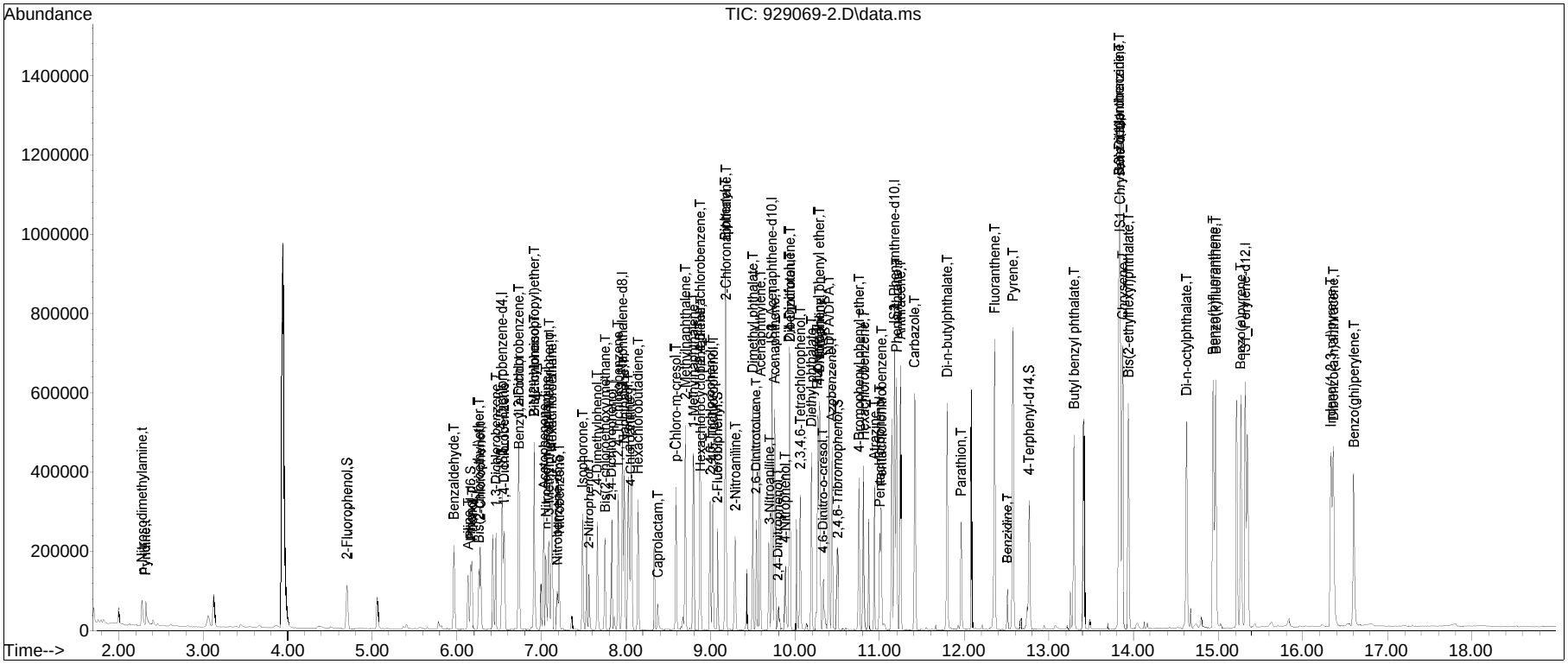
(#) = qualifier out of range (m) = manual integration (+) = signals summed

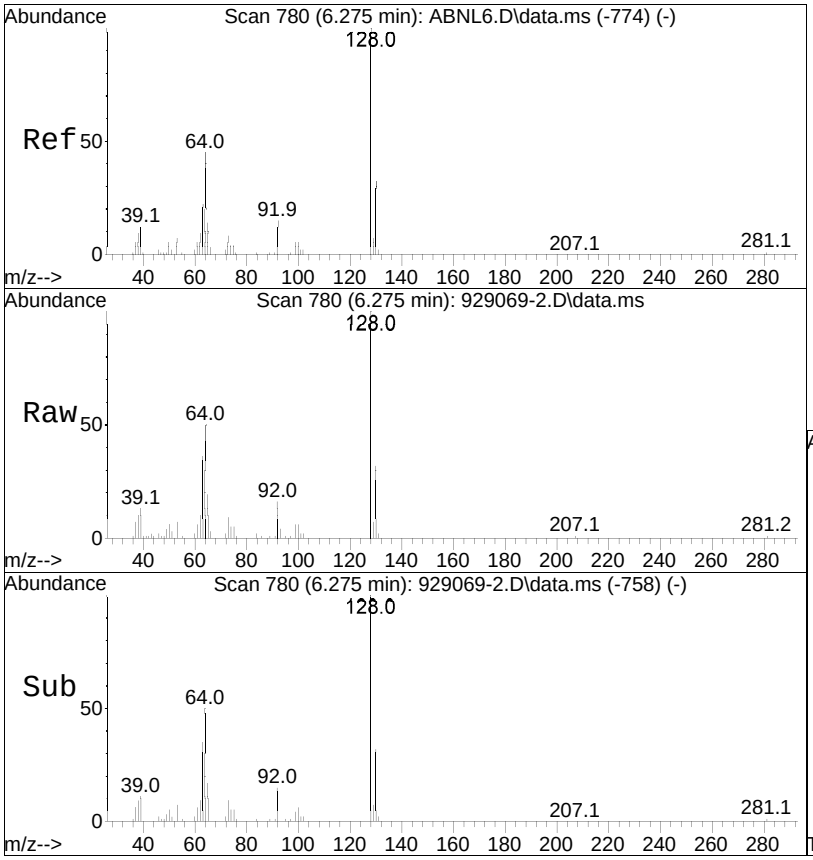
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240604RVT\
Data File : 929069-2.D
Acq On : 5 Jun 2024 2:16 am
Operator : SV107:sz
Sample : WG1929069-2,32,,ASK
Misc : WG1929711,WG1929069,ical21169
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:42:08 2024
Quant Method : I:\8270\sv107\240604RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 02:36:41 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MARVT\AP90604.D•

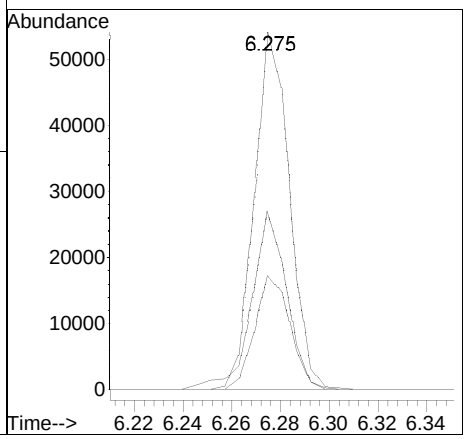


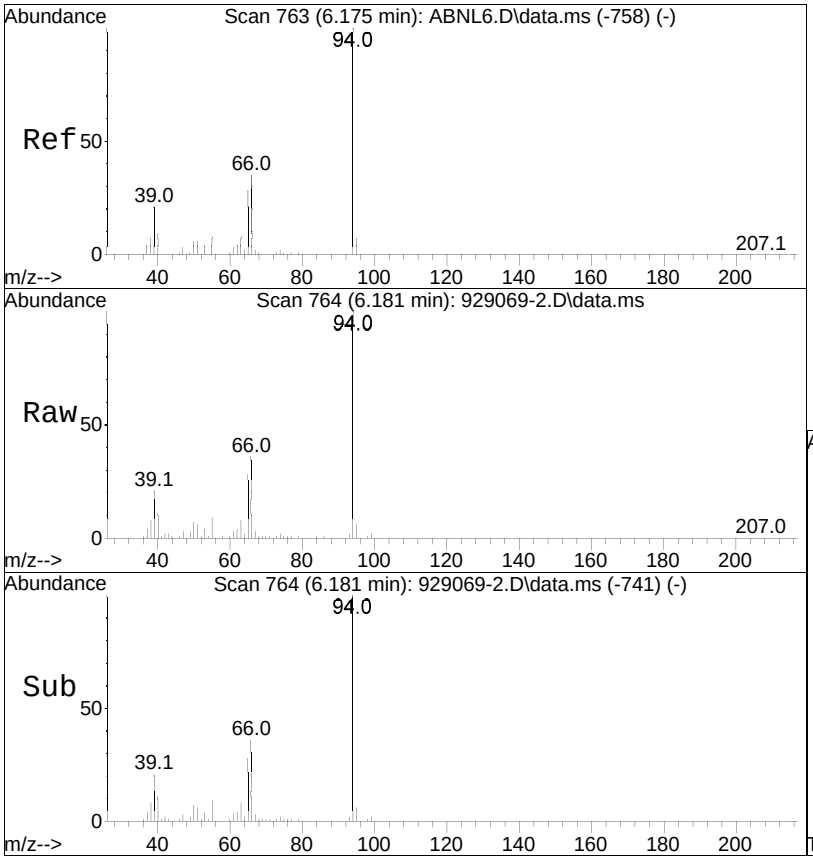


#6
2-Chlorophenol
Concen: 3.31 ug/ml
RT: 6.275 min Scan# 780
Delta R.T. 0.006 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:128 Resp: 53753

Ion	Ratio	Lower	Upper
128	100		
64	49.9	45.1	67.7
130	32.2	26.2	39.4

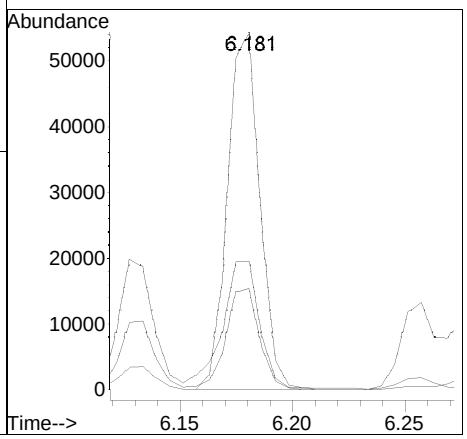


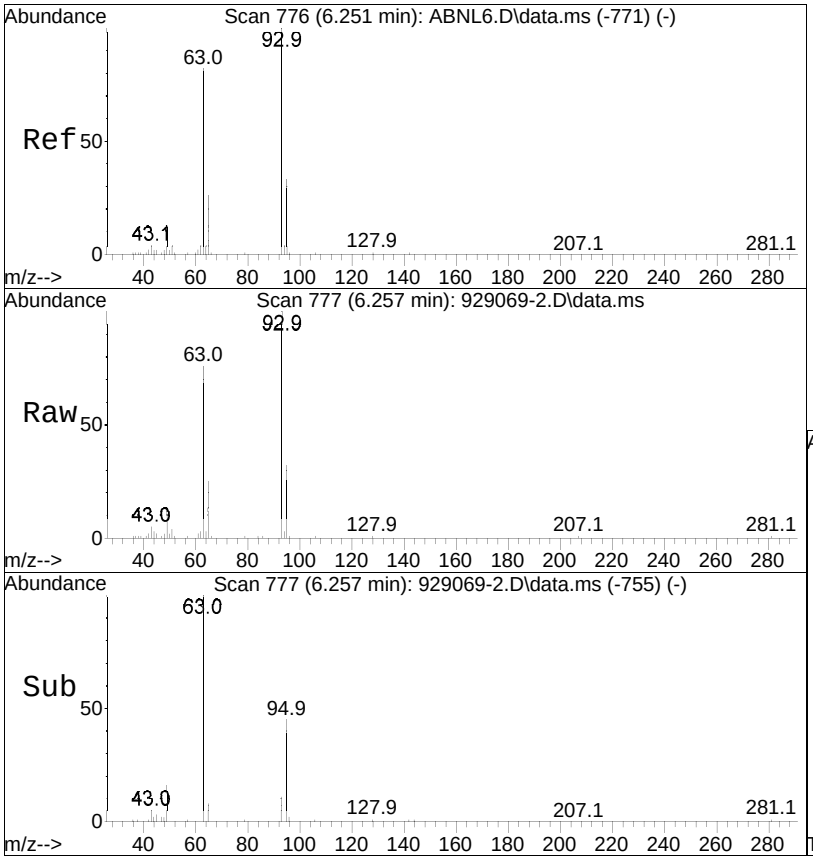


#8
Phenol
Concen: 2.73 ug/ml
RT: 6.181 min Scan# 764
Delta R.T. 0.012 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion: 94 Resp: 54043

Ion	Ratio	Lower	Upper
94	100		
65	29.6	26.0	39.0
66	41.9	33.8	50.8

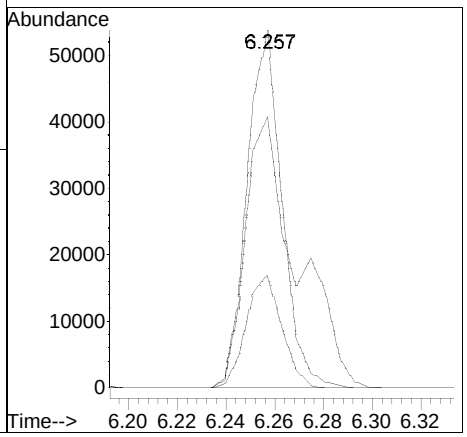


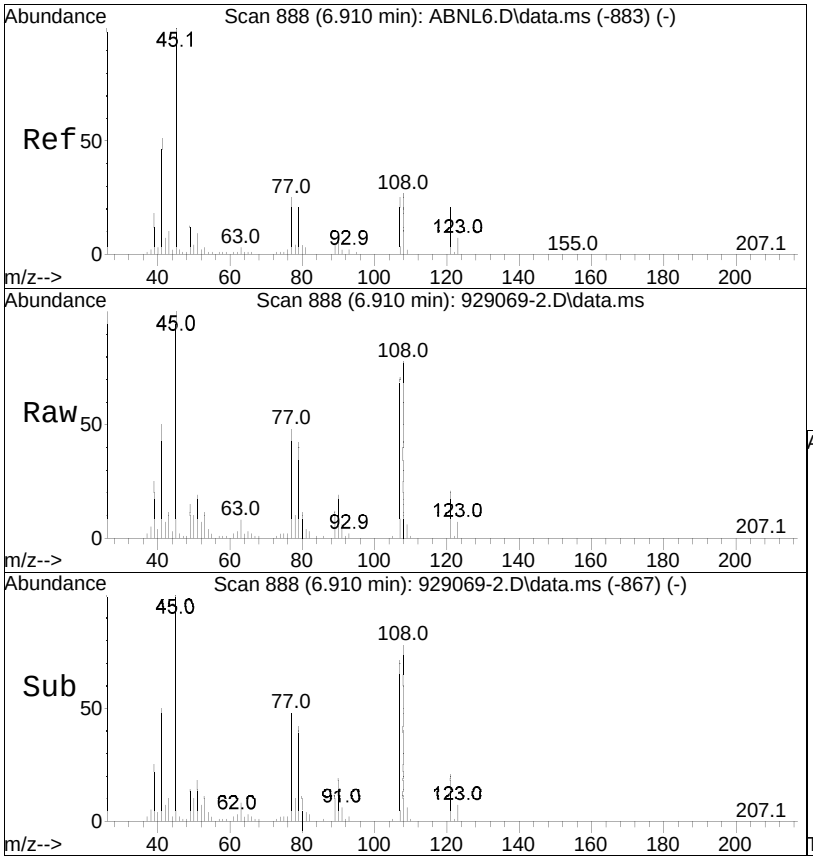


#9
Bis(2-chloroethyl)ether
Concen: 3.25 ug/ml
RT: 6.257 min Scan# 777
Delta R.T. 0.006 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion: 93 Resp: 53071

Ion	Ratio	Lower	Upper
93	100		
63	111.5	74.6	111.8
95	32.2	25.9	38.9

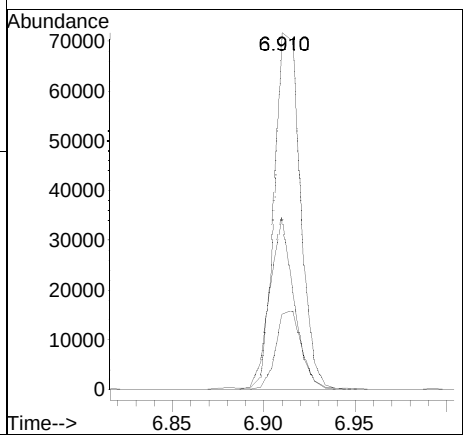


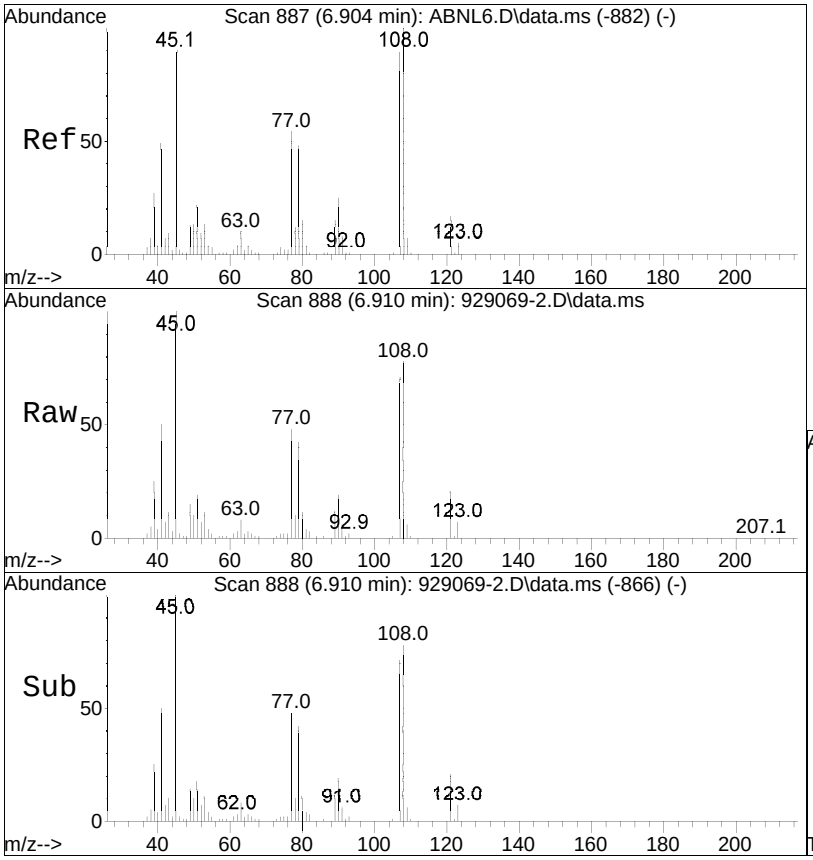


#14
Bis(2-chloroisopropyl)ether
Concen: 3.19 ug/ml
RT: 6.910 min Scan# 888
Delta R.T. -0.000 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion: 45 Resp: 71311

Ion	Ratio	Lower	Upper
45	100		
121	21.9	9.8	14.6#
77	45.4	6.1	9.1#

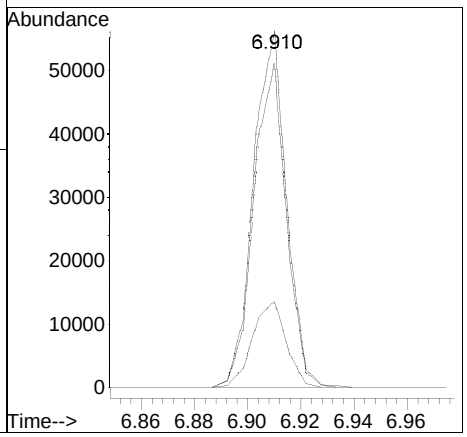


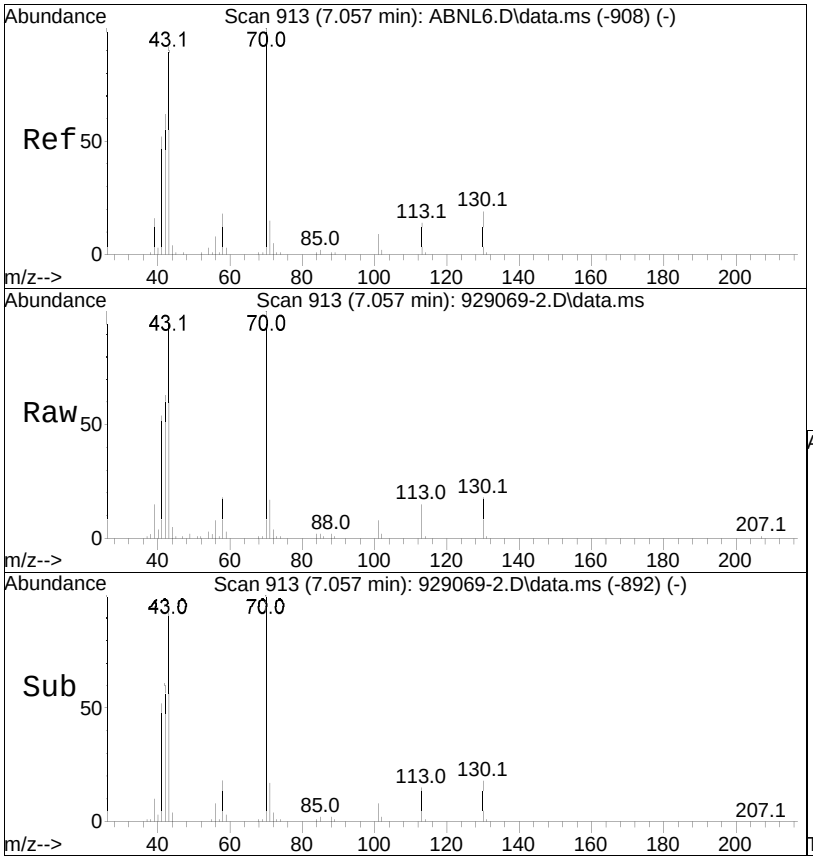


#15
2-Methylphenol
Concen: 3.40 ug/ml
RT: 6.910 min Scan# 888
Delta R.T. 0.006 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:108 Resp: 48304

Ion	Ratio	Lower	Upper
108	100		
107	89.7	70.7	106.1
90	24.7	18.7	28.1

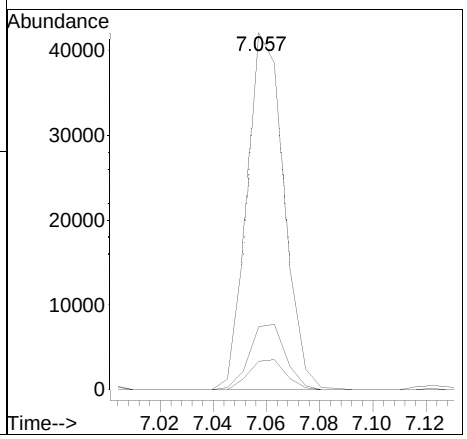


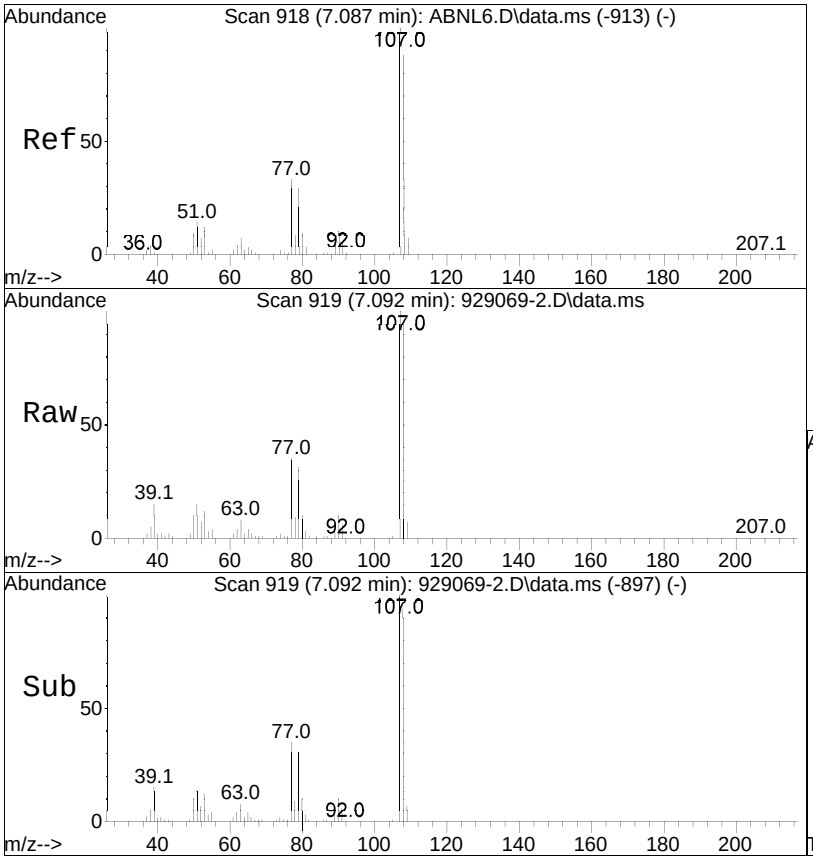


#17
n-Nitrosodi-n-propylamine
Concen: 3.35 ug/ml
RT: 7.057 min Scan# 913
Delta R.T. -0.000 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion: 70 Resp: 40562

Ion	Ratio	Lower	Upper
70	100		
130	18.0	18.2	27.4#
101	8.4	7.8	11.8

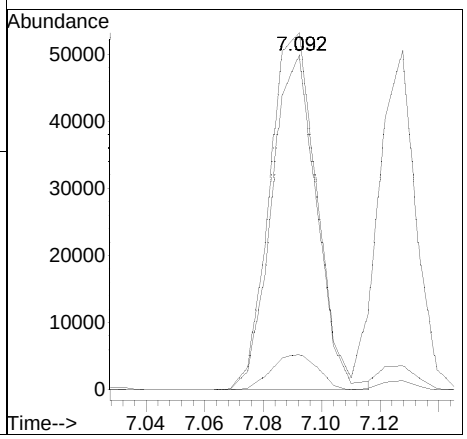


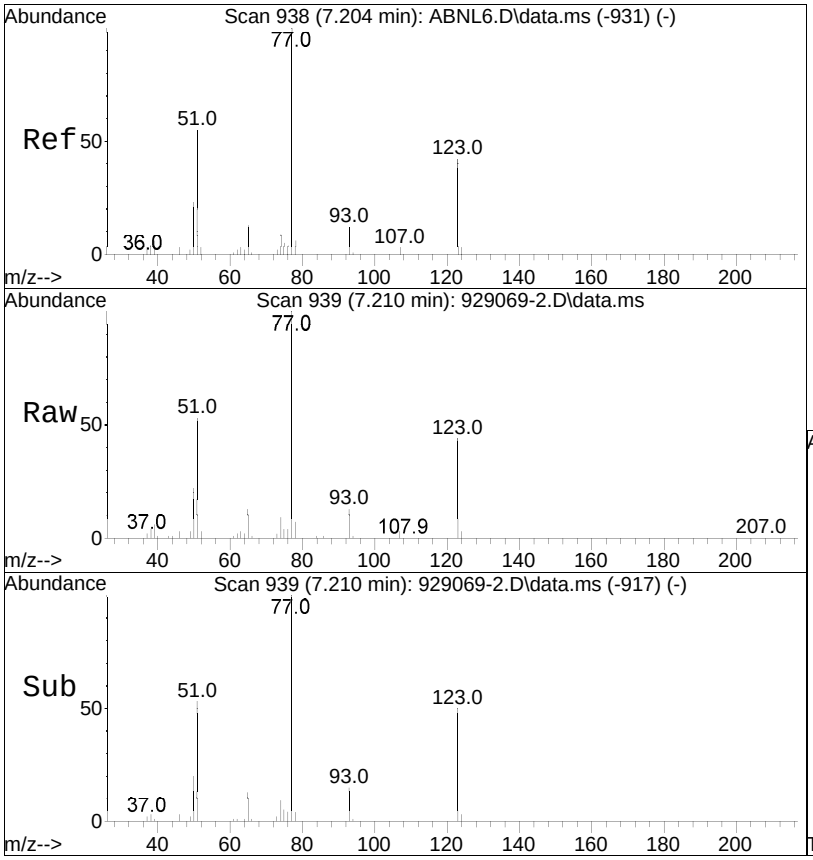


#18
3-Methylphenol/4-Methylphenol
Concen: 3.57 ug/ml
RT: 7.092 min Scan# 919
Delta R.T. 0.006 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:108 Resp: 53352

Ion	Ratio	Lower	Upper
108	100		
107	111.0	88.6	132.8
90	11.0	8.8	13.2

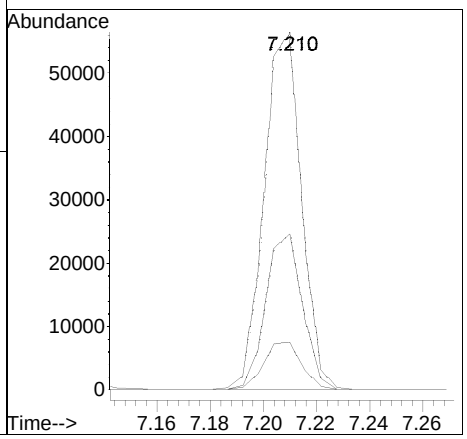


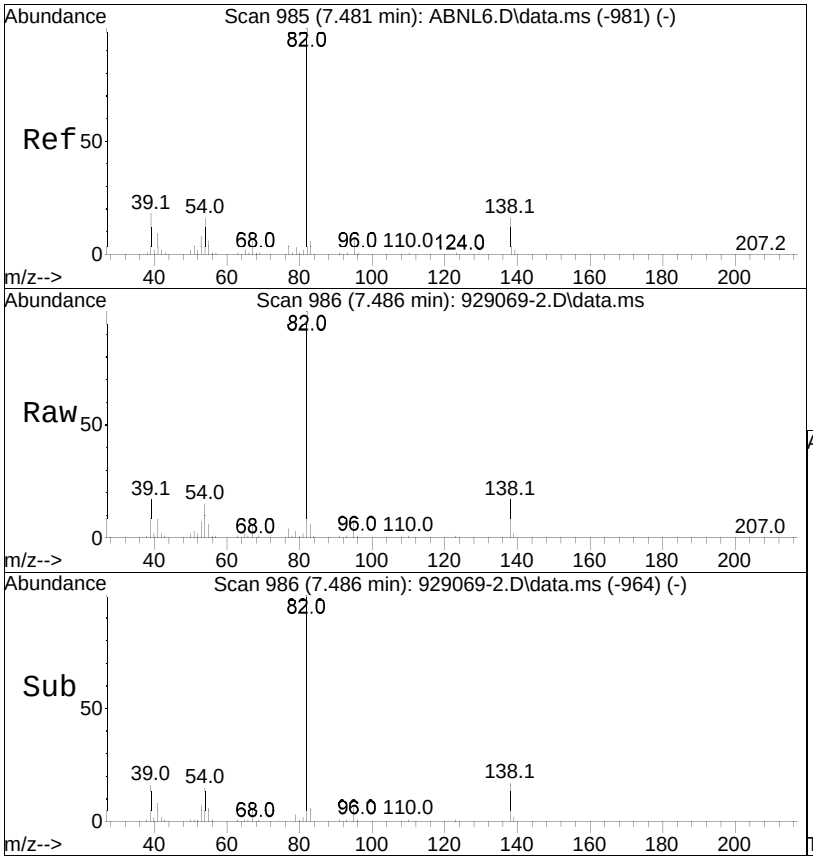


#20
Nitrobenzene
Concen: 3.31 ug/ml
RT: 7.210 min Scan# 939
Delta R.T. 0.006 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion: 77 Resp: 54668

Ion	Ratio	Lower	Upper
77	100		
123	42.9	36.3	54.5
65	13.5	11.6	17.4

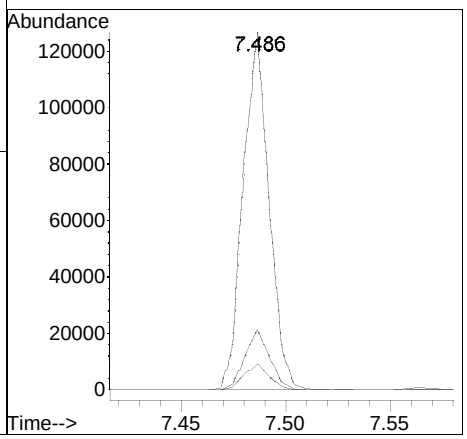


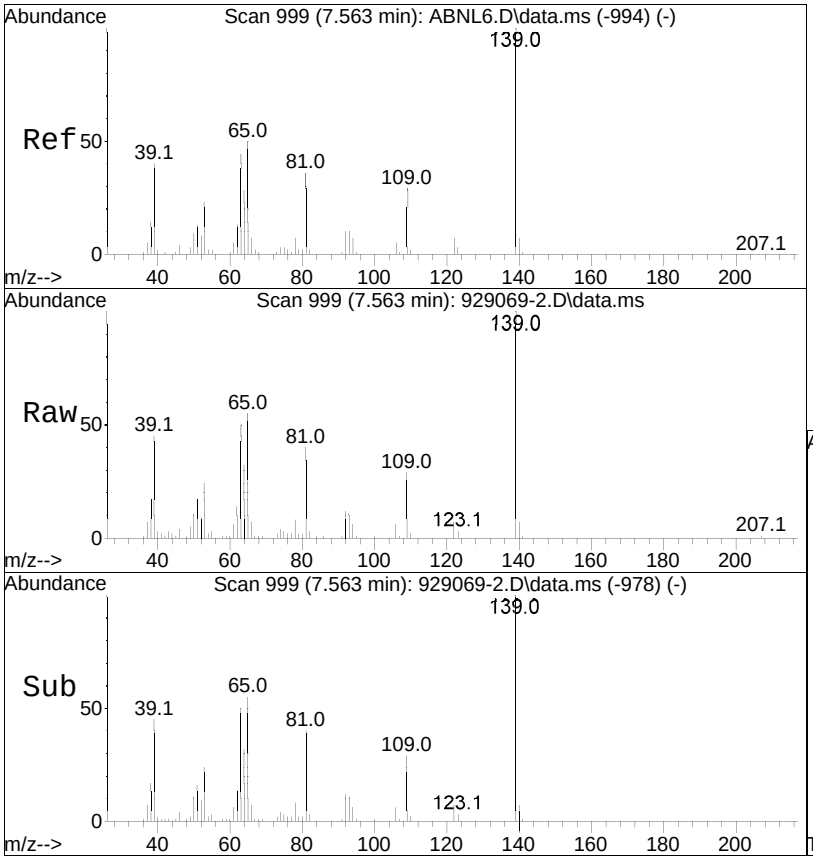


#21
Isophorone
Concen: 3.38 ug/ml
RT: 7.486 min Scan# 986
Delta R.T. 0.006 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion: 82 Resp: 107497

Ion	Ratio	Lower	Upper
82	100		
138	16.2	14.7	22.1
95	7.1	5.2	7.8

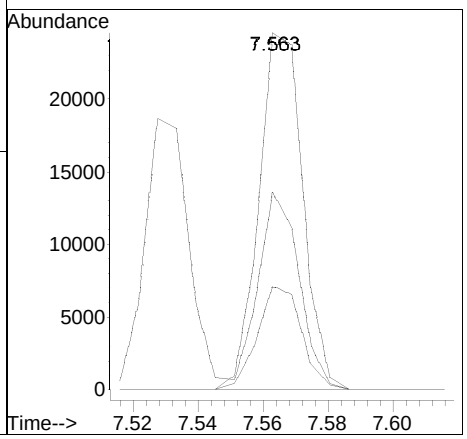


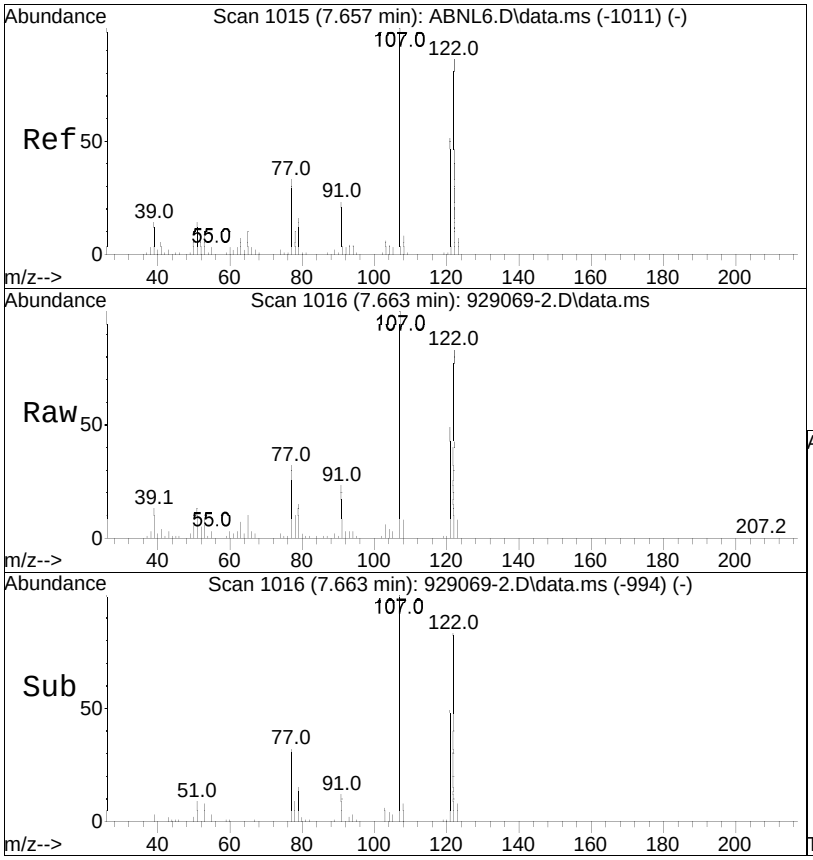


#22
2-Nitrophenol
Concen: 3.14 ug/ml
RT: 7.563 min Scan# 999
Delta R.T. -0.000 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:139 Resp: 23067

Ion	Ratio	Lower	Upper
139	100		
109	29.1	19.4	29.0#
65	51.3	46.1	69.1

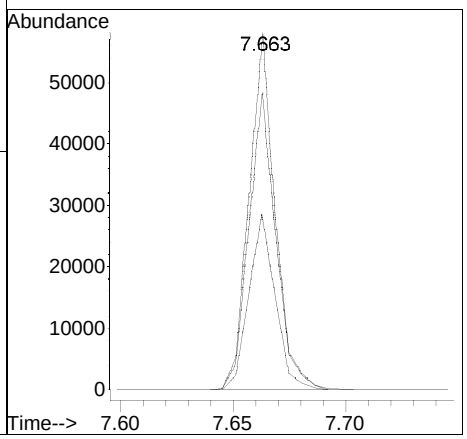


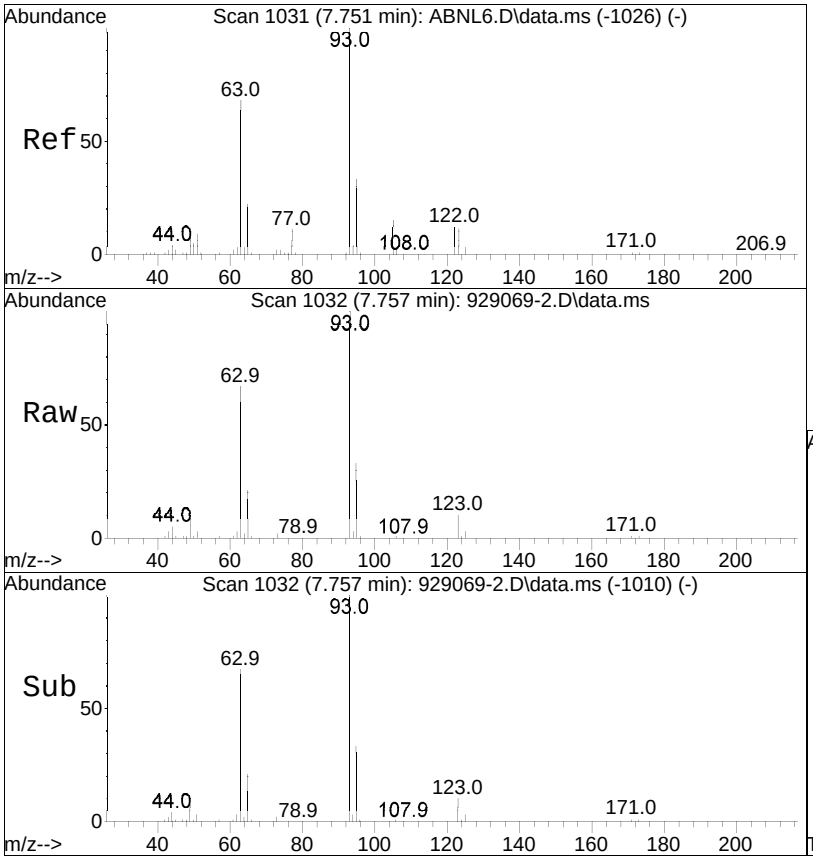


#23
2,4-Dimethylphenol
Concen: 3.10 ug/ml
RT: 7.663 min Scan# 1016
Delta R.T. 0.006 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:107 Resp: 46426

Ion	Ratio	Lower	Upper
107	100		
121	49.9	40.0	60.0
122	85.9	70.2	105.4

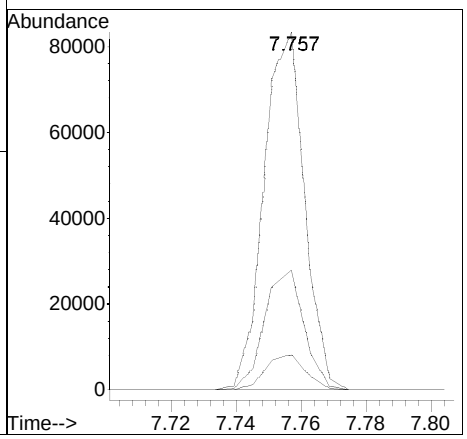


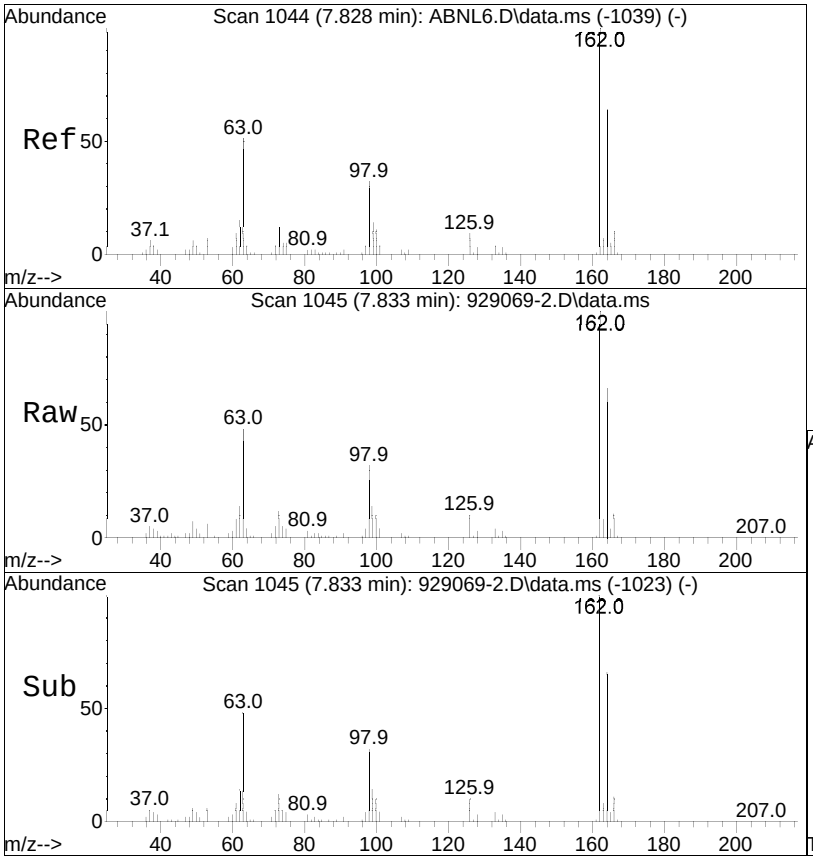


#24
Bis(2-chloroethoxy)methane
Concen: 3.43 ug/ml
RT: 7.757 min Scan# 1032
Delta R.T. 0.006 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion: 93 Resp: 71273

Ion	Ratio	Lower	Upper
93	100		
95	32.9	25.8	38.8
123	9.8	10.1	15.1#

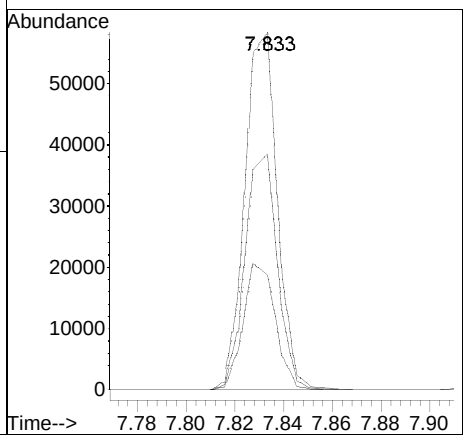


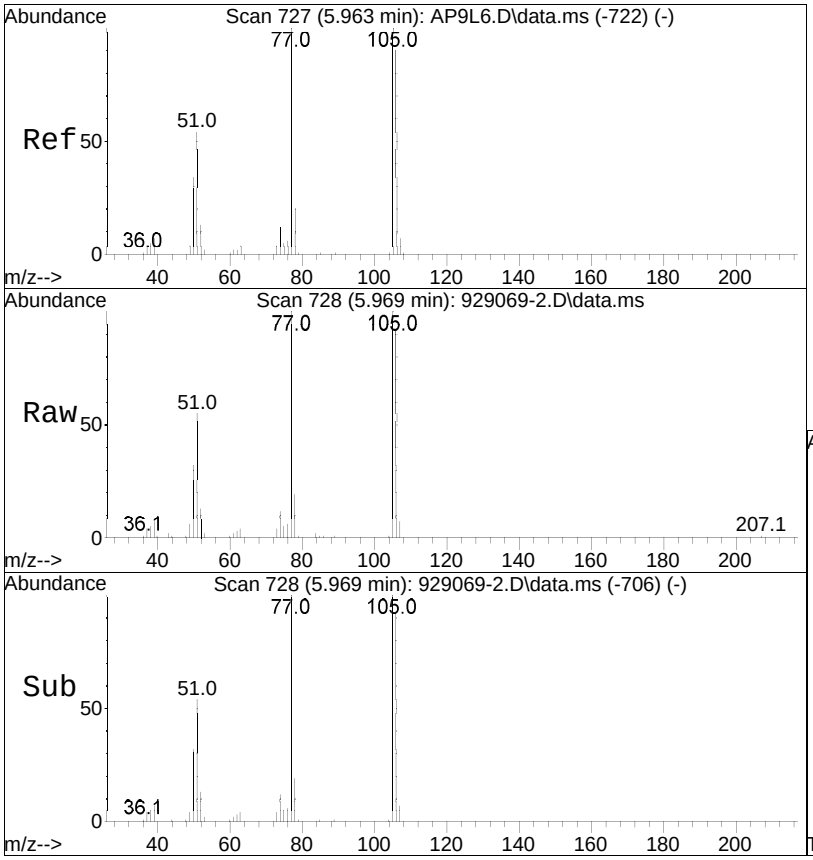


#25
2,4-Dichlorophenol
Concen: 3.56 ug/ml
RT: 7.833 min Scan# 1045
Delta R.T. 0.006 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:162 Resp: 53652

Ion	Ratio	Lower	Upper
162	100		
164	65.7	51.0	76.4
98	35.0	32.2	48.2

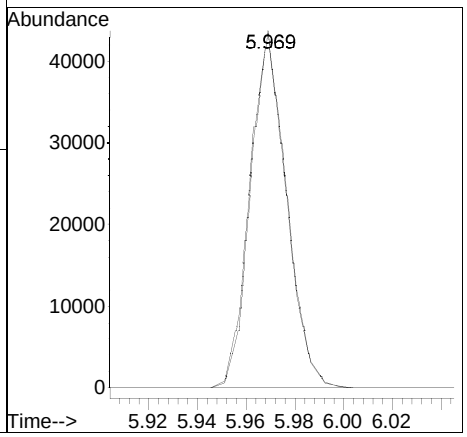


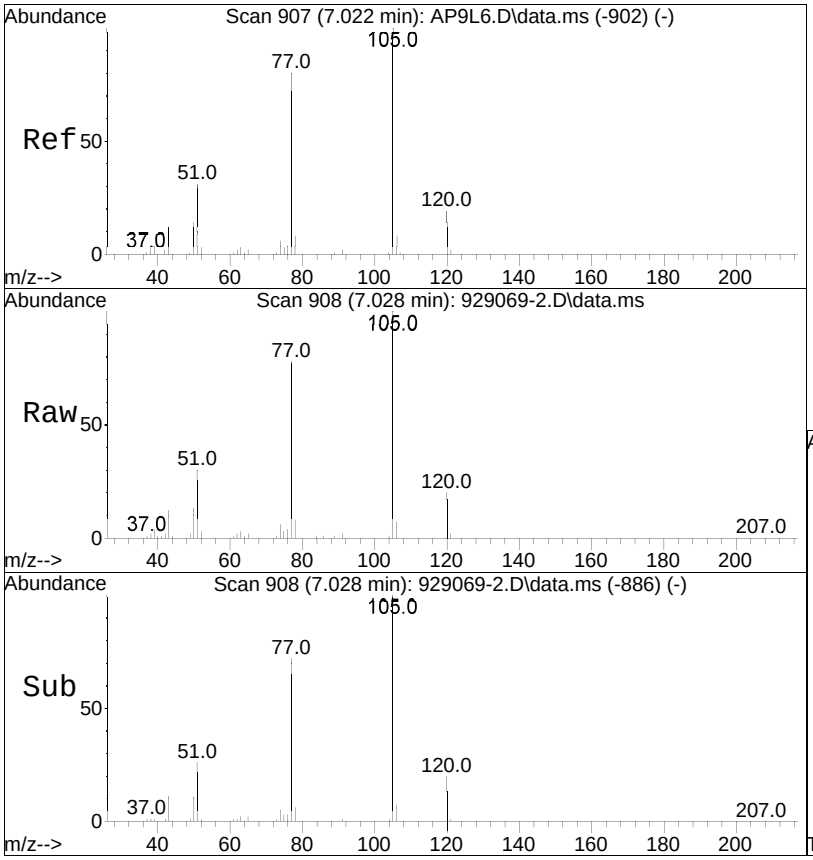


#28
Benzaldehyde
Concen: 3.16 ug/ml
RT: 5.969 min Scan# 728
Delta R.T. 0.006 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:105 Resp: 44557

Ion	Ratio	Lower	Upper
105	100		
77	101.1	82.2	123.4

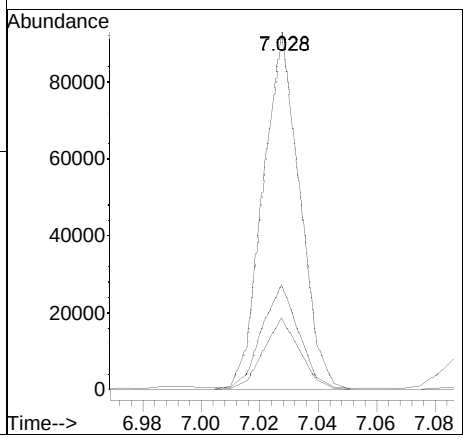


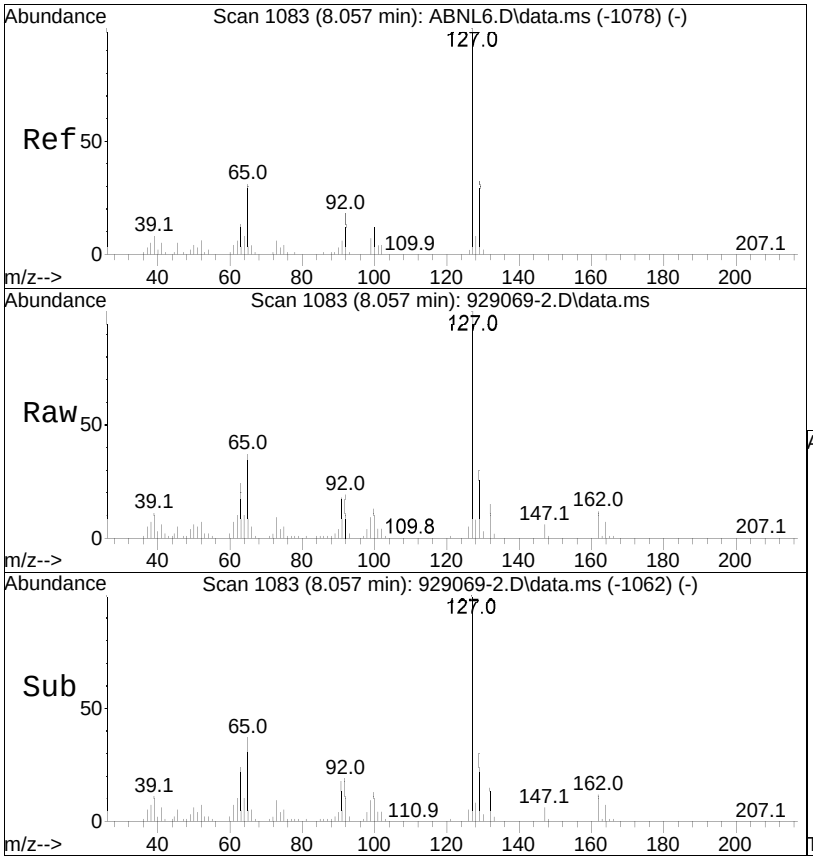


#29
Acetophenone
Concen: 3.30 ug/ml
RT: 7.028 min Scan# 908
Delta R.T. 0.006 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:105 Resp: 80600

Ion	Ratio	Lower	Upper
105	100		
120	19.7	20.5	30.7#
51	29.0	34.9	52.3#

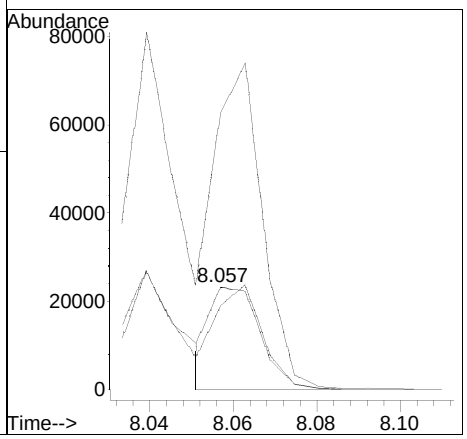


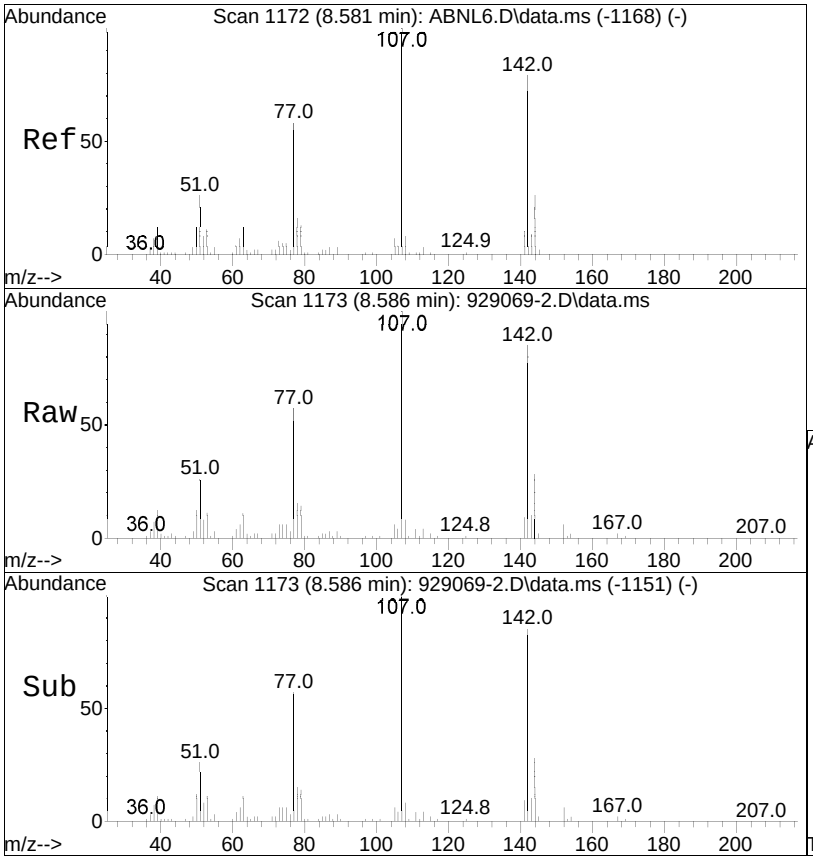


#37
4-Chloroaniline
Concen: 3.02 ug/ml
RT: 8.057 min Scan# 1083
Delta R.T. -0.000 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion: 65 Resp: 18985

Ion	Ratio	Lower	Upper
65	100		
127	308.9	237.6	356.4
129	96.4	76.3	114.5

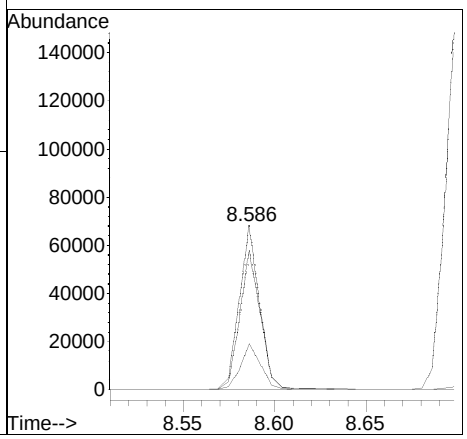


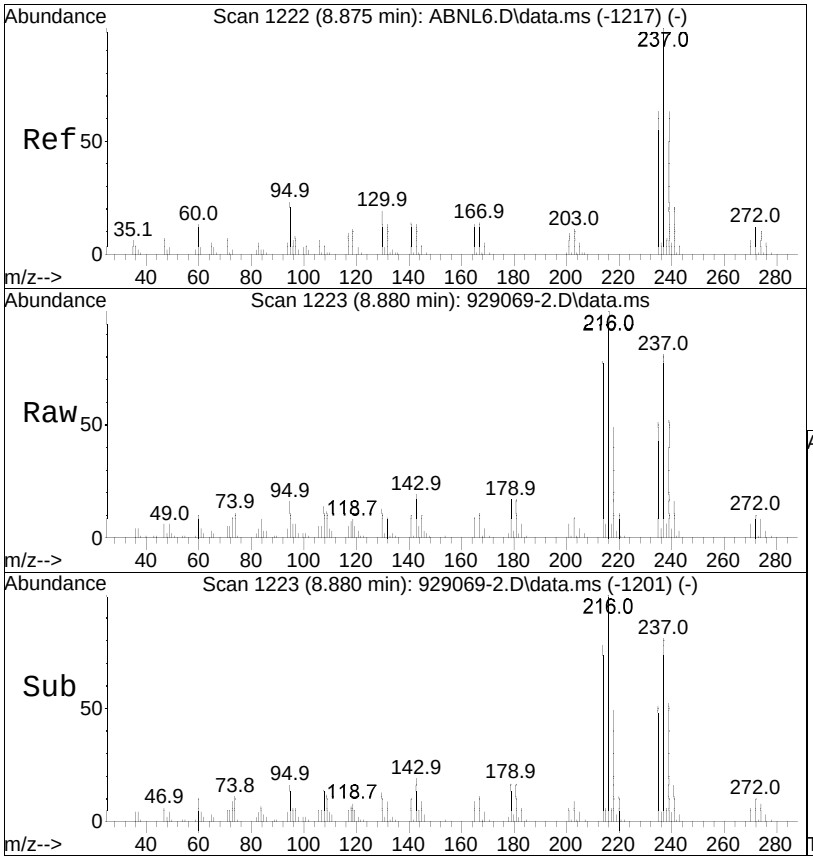


#39
p-Chloro-m-cresol
Concen: 3.87 ug/ml
RT: 8.586 min Scan# 1173
Delta R.T. 0.006 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:107 Resp: 52771

Ion	Ratio	Lower	Upper
107	100		
144	27.4	20.9	31.3
142	85.1	66.1	99.1

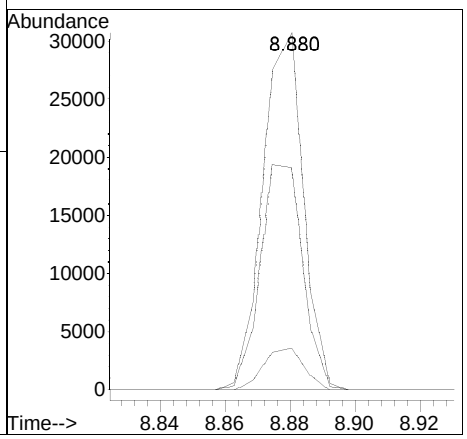


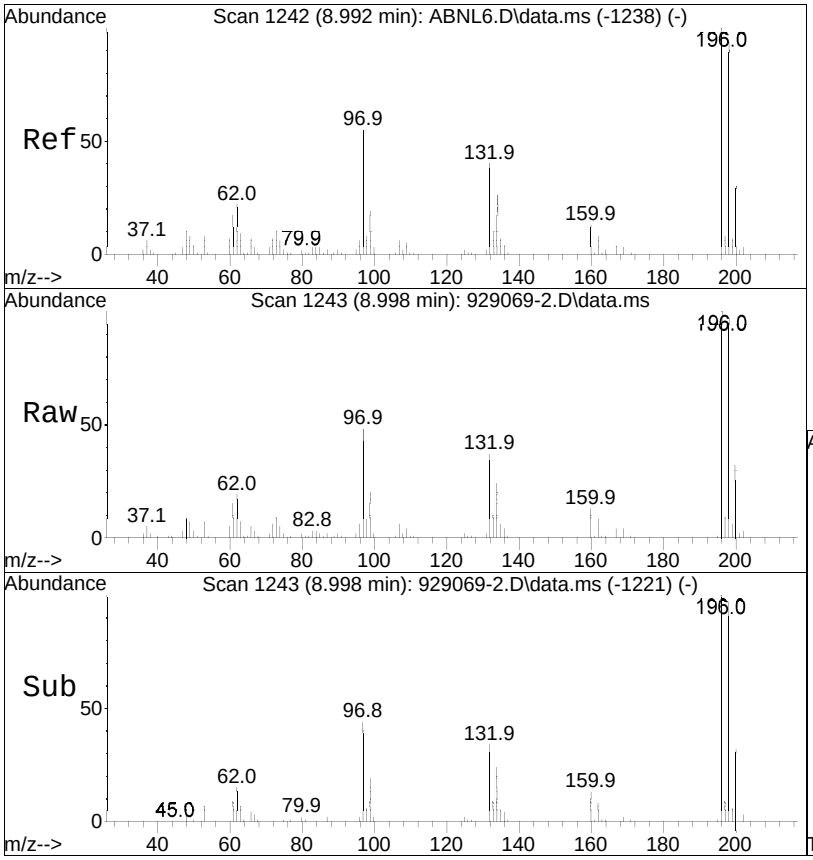


#42
Hexachlorocyclopentadiene
Concen: 2.59 ug/ml
RT: 8.880 min Scan# 1223
Delta R.T. 0.006 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:237 Resp: 26638

Ion	Ratio	Lower	Upper
237	100		
235	66.0	49.7	74.5
272	11.9	9.8	14.6

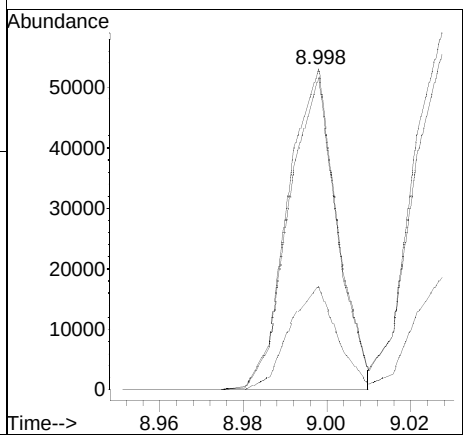


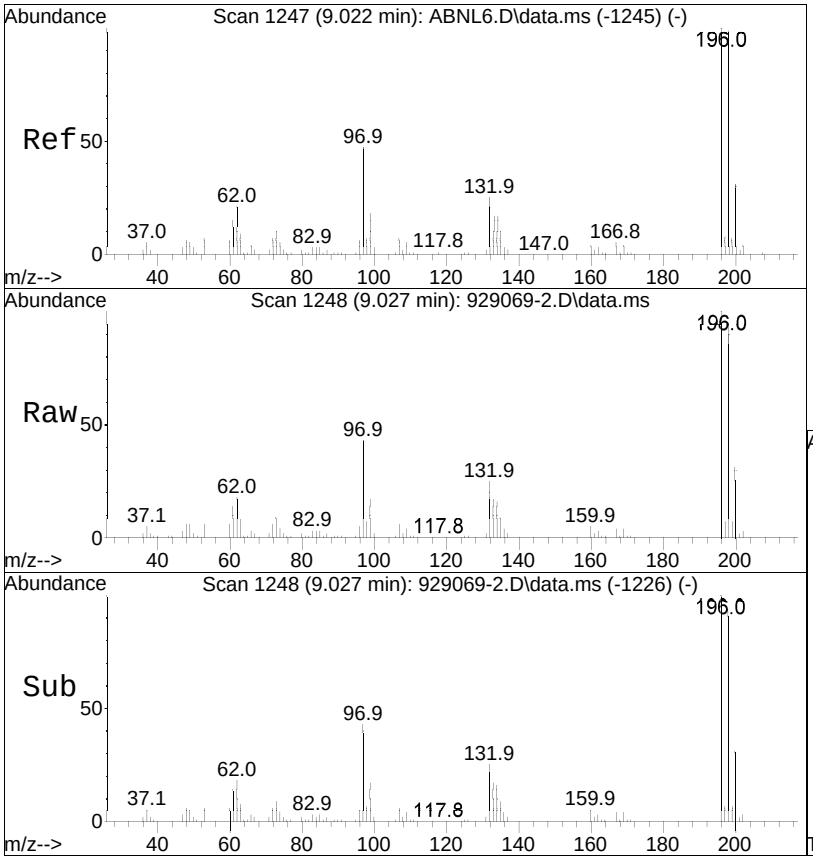


#43
2,4,6-Trichlorophenol
Concen: 3.68 ug/ml
RT: 8.998 min Scan# 1243
Delta R.T. 0.006 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:196 Resp: 43663

Ion	Ratio	Lower	Upper
196	100		
198	95.1	77.5	116.3
200	31.4	23.8	35.6

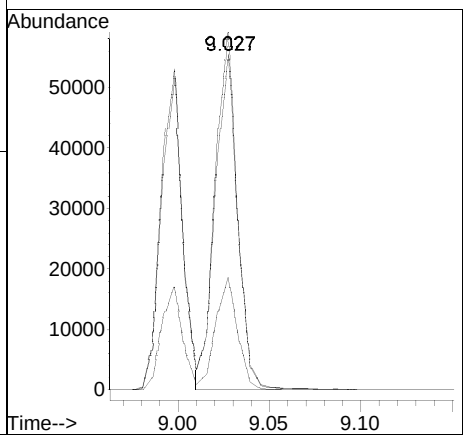


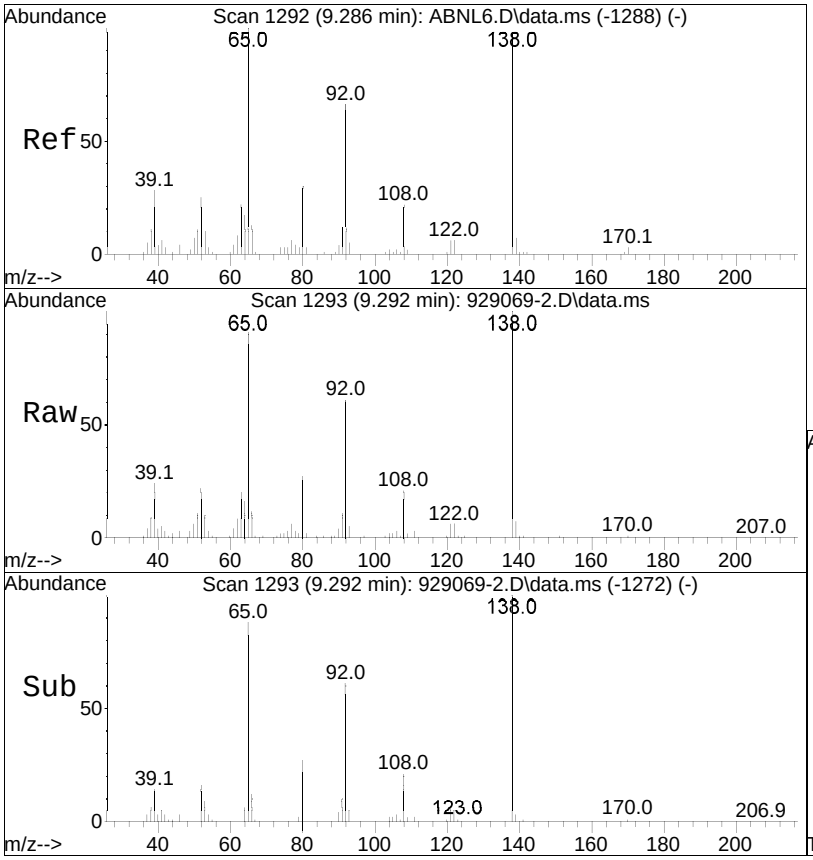


#44
2,4,5-Trichlorophenol
Concen: 3.99 ug/ml
RT: 9.027 min Scan# 1248
Delta R.T. 0.006 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:196 Resp: 50210

Ion	Ratio	Lower	Upper
196	100		
200	30.8	25.4	38.0
198	94.0	78.0	117.0

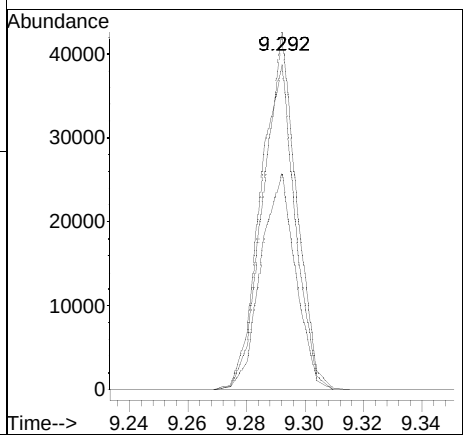


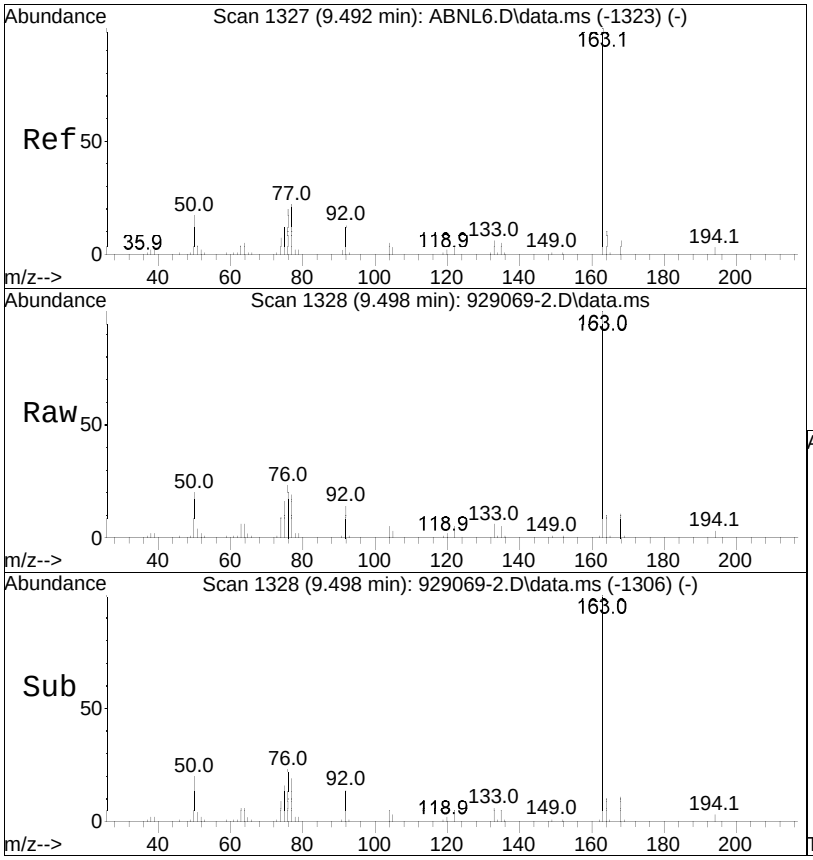


#47
2-Nitroaniline
Concen: 3.85 ug/ml
RT: 9.292 min Scan# 1293
Delta R.T. -0.000 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:138 Resp: 33335

Ion	Ratio	Lower	Upper
138	100		
92	63.4	53.5	80.3
65	96.5	86.3	129.5

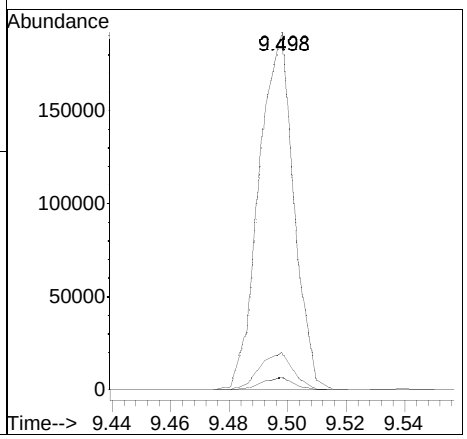


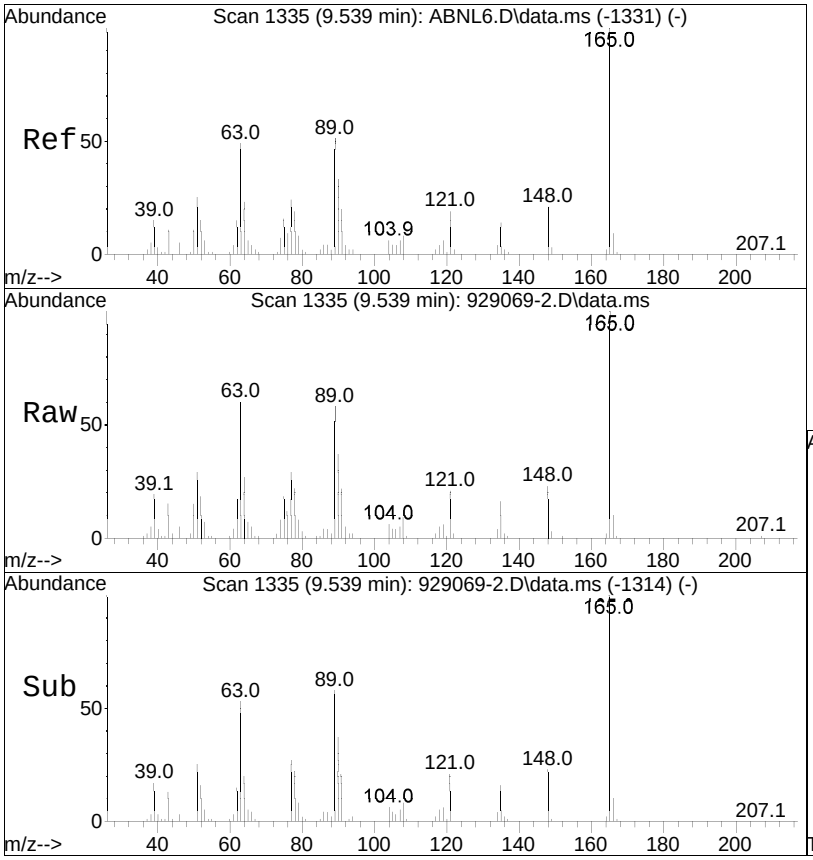


#50
Dimethyl phthalate
Concen: 3.74 ug/ml
RT: 9.498 min Scan# 1328
Delta R.T. 0.006 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:163 Resp: 156939

Ion	Ratio	Lower	Upper
163	100		
194	3.4	3.5	5.3#
164	10.3	7.9	11.9

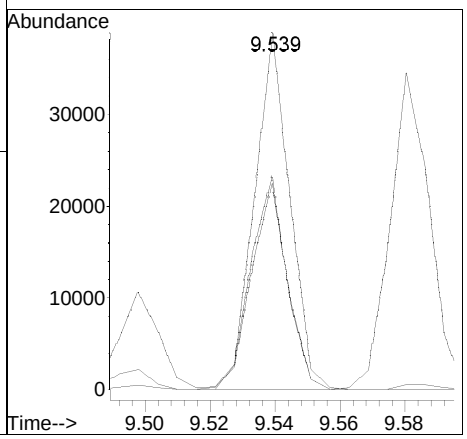


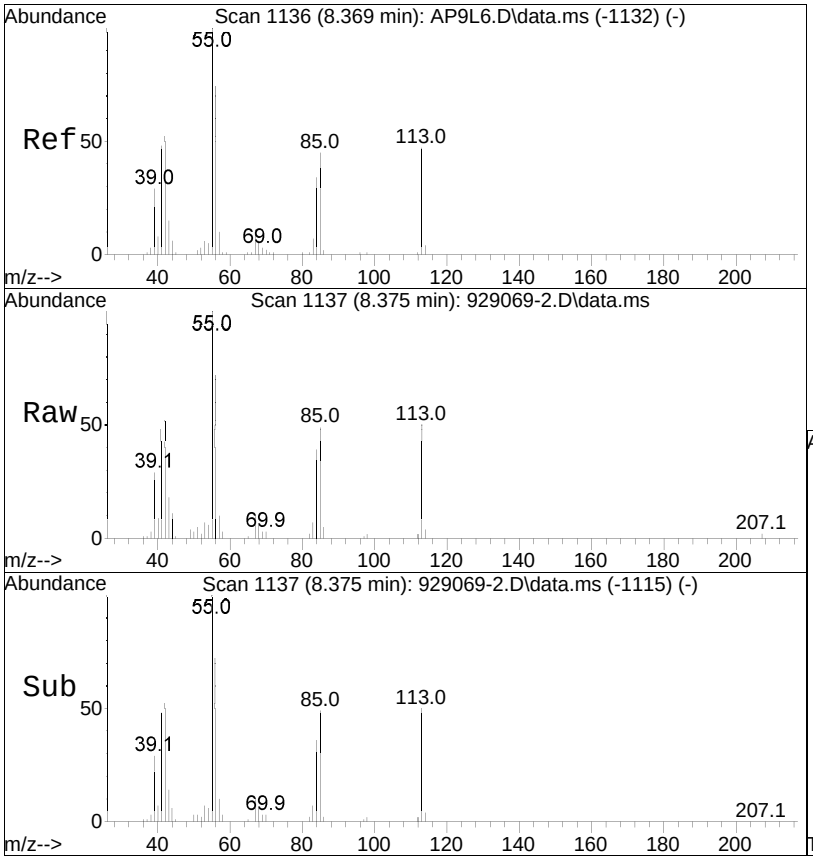


#52
2,6-Dinitrotoluene
Concen: 3.84 ug/ml
RT: 9.539 min Scan# 1335
Delta R.T. -0.000 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:165 Resp: 29356

Ion	Ratio	Lower	Upper
165	100		
89	59.2	54.2	81.2
63	61.7	64.2	96.2#

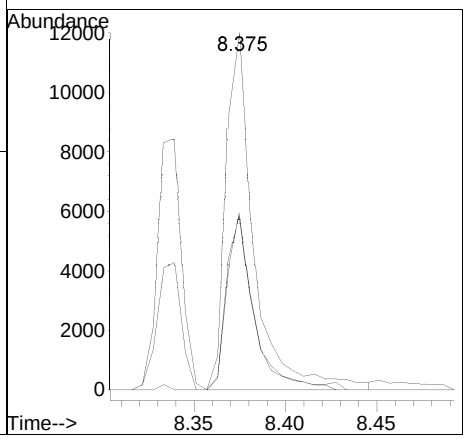


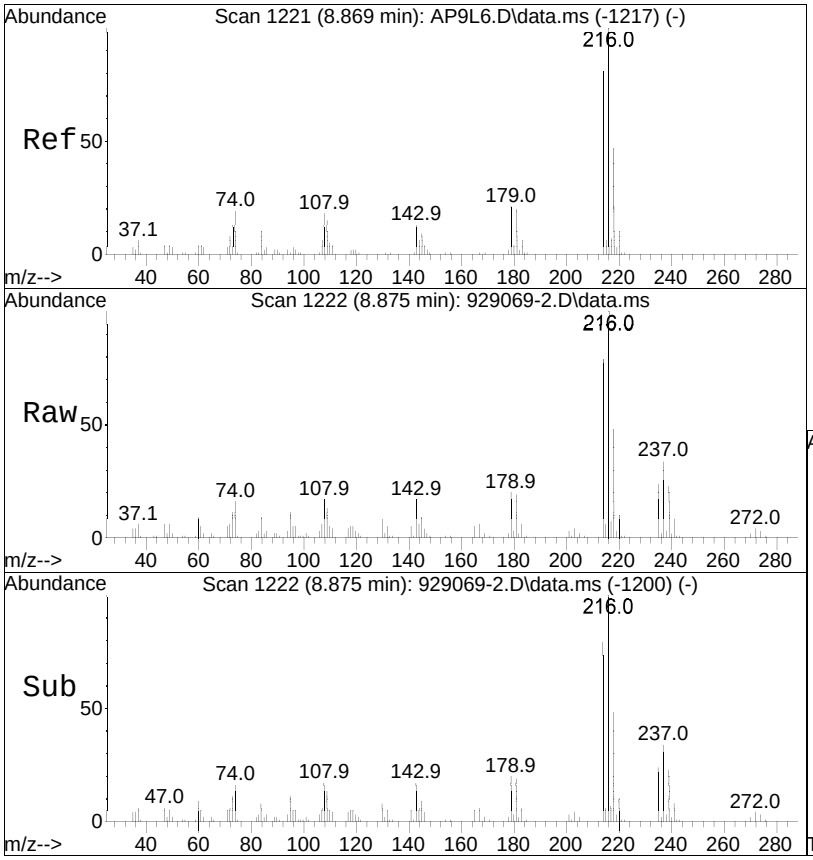


#59
Caprolactam
Concen: 1.72 ug/ml
RT: 8.375 min Scan# 1137
Delta R.T. 0.006 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion: 55 Resp: 12870

Ion	Ratio	Lower	Upper
55	100		
85	48.3	19.8	29.6#
113	46.7	29.6	44.4#

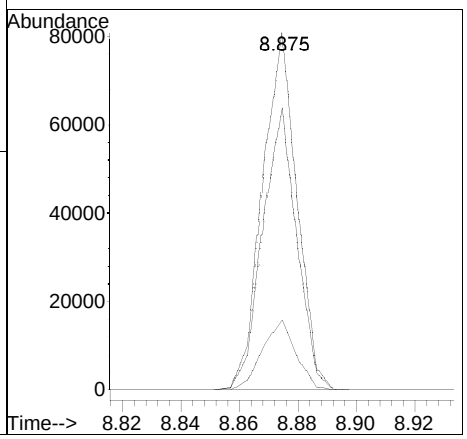


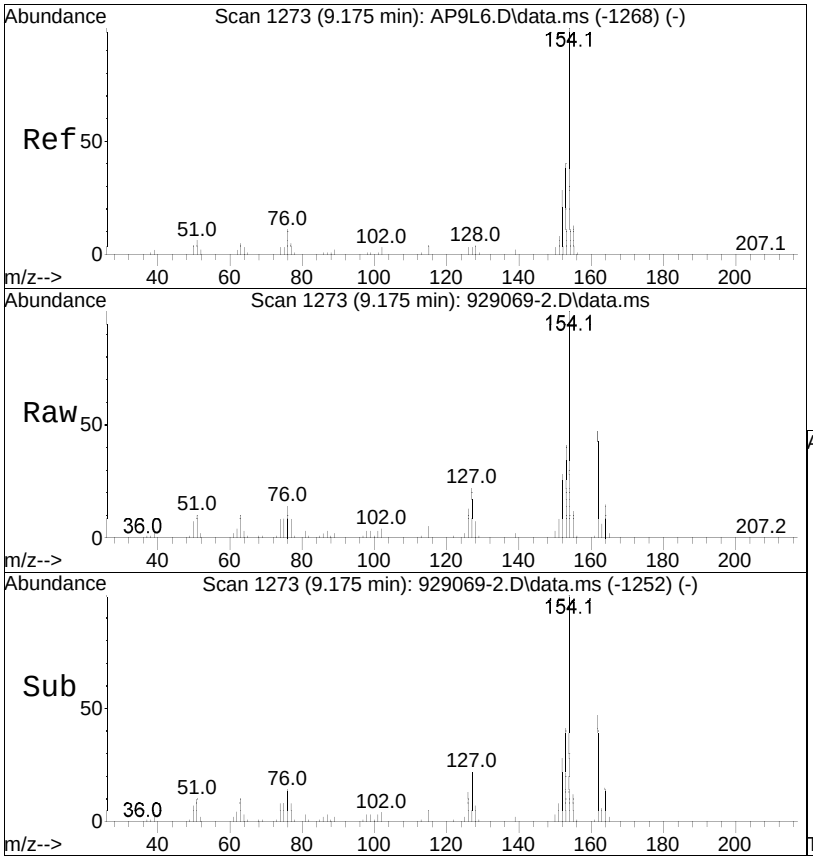


#60
1,2,4,5-Tetrachlorobenzene
Concen: 3.27 ug/ml
RT: 8.875 min Scan# 1222
Delta R.T. 0.006 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:216 Resp: 65733

Ion	Ratio	Lower	Upper
216	100		
214	78.1	63.7	95.5
179	19.1	19.0	28.6

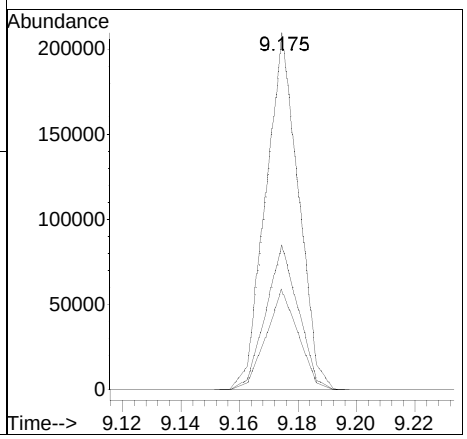


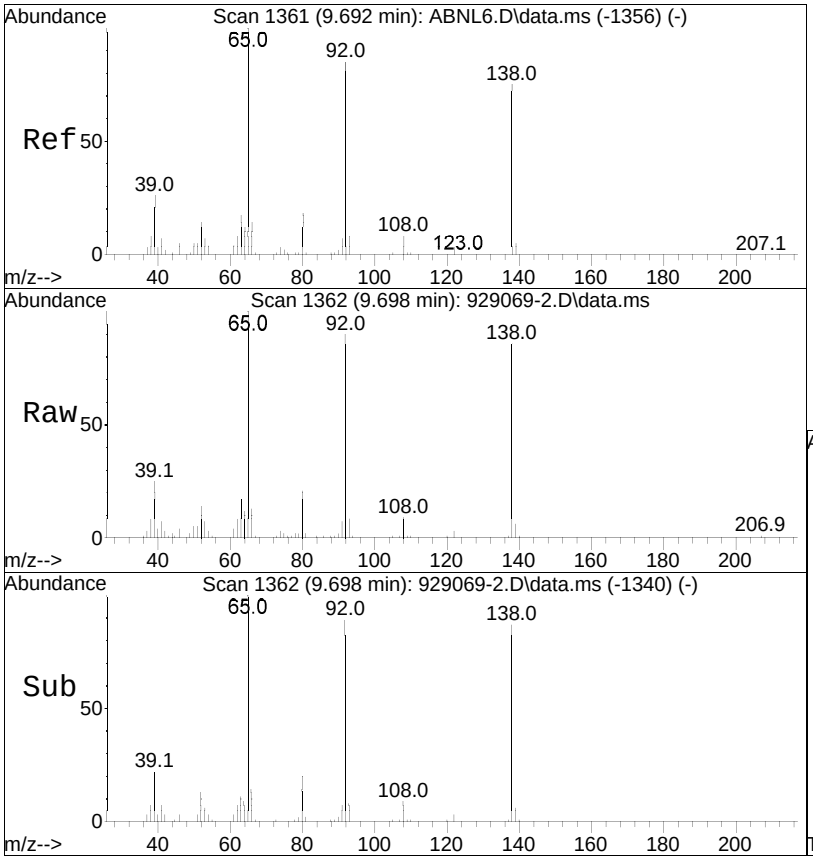


#61
Biphenyl
Concen: 3.47 ug/ml
RT: 9.175 min Scan# 1273
Delta R.T. 0.000 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:154 Resp: 161569

Ion	Ratio	Lower	Upper
154	100		
153	40.7	32.3	48.5
152	28.0	22.5	33.7

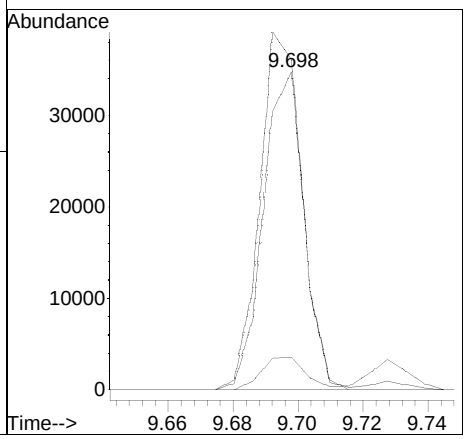


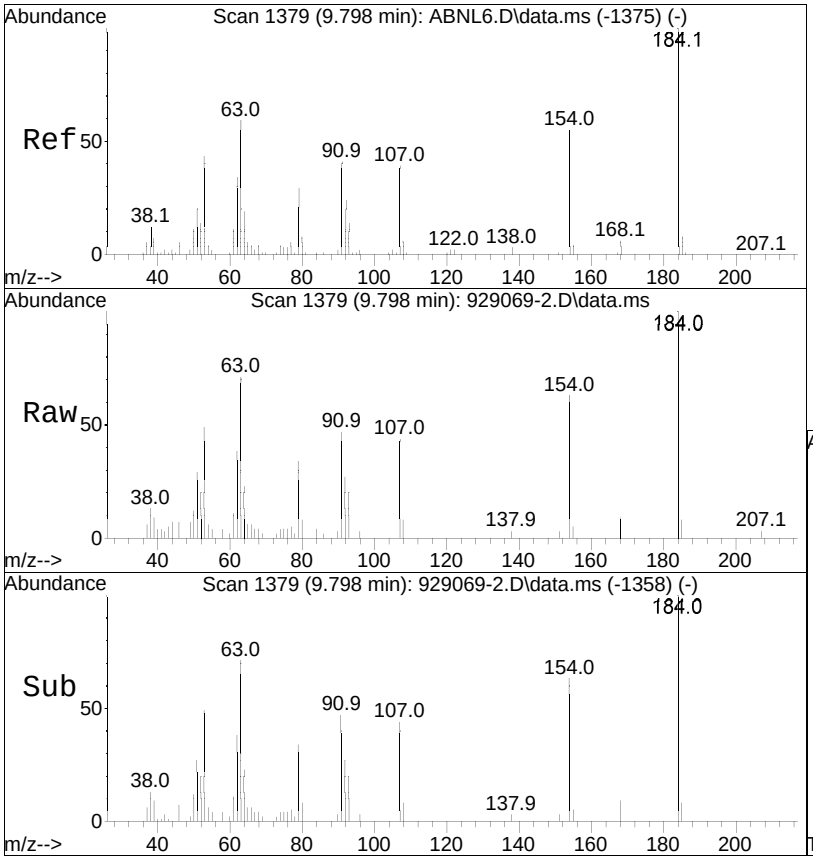


#63
3-Nitroaniline
Concen: 3.71 ug/ml
RT: 9.698 min Scan# 1362
Delta R.T. 0.006 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:138 Resp: 30003

Ion	Ratio	Lower	Upper
138	100		
92	115.9	93.4	140.2
108	11.2	9.5	14.3

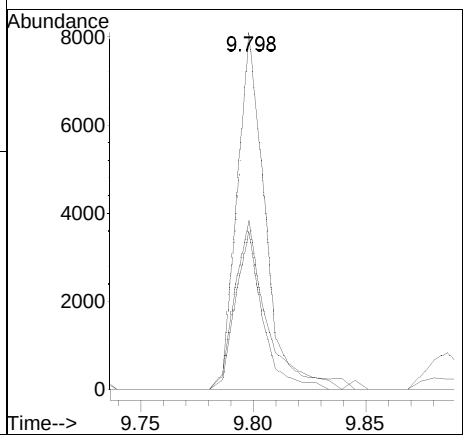


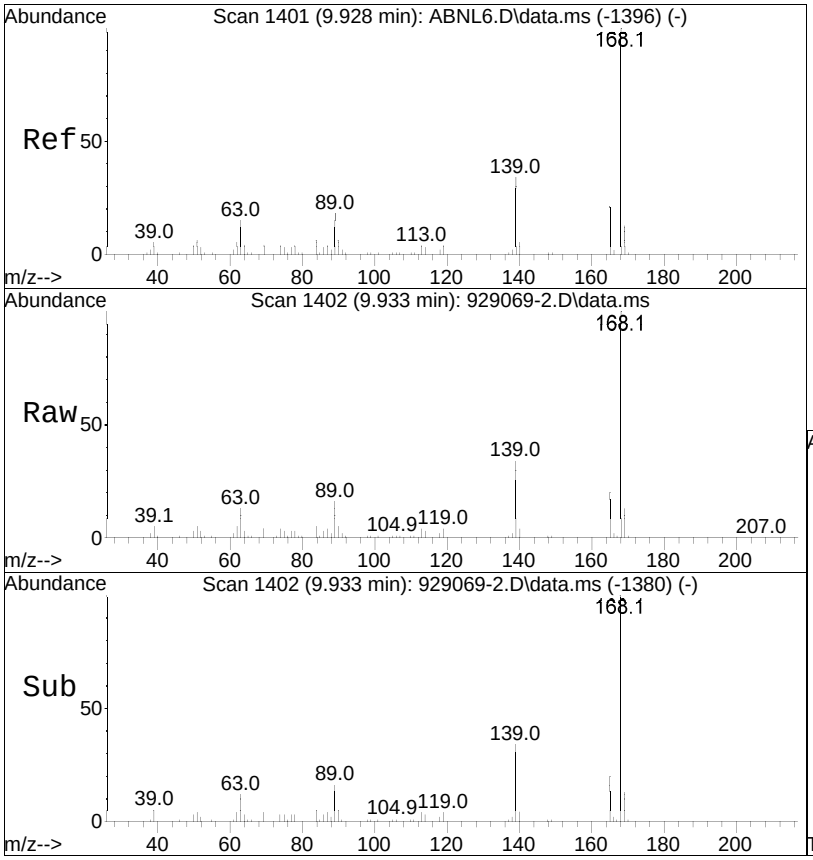


#65
2,4-Dinitrophenol
Concen: 2.27 ug/ml
RT: 9.798 min Scan# 1379
Delta R.T. -0.000 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:184 Resp: 7062

Ion	Ratio	Lower	Upper
184	100		
107	43.0	37.7	56.5
91	54.8	46.3	69.5

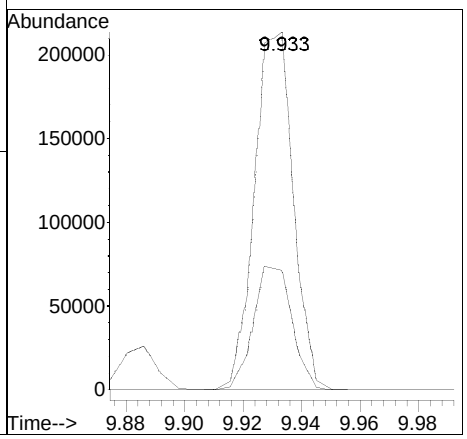


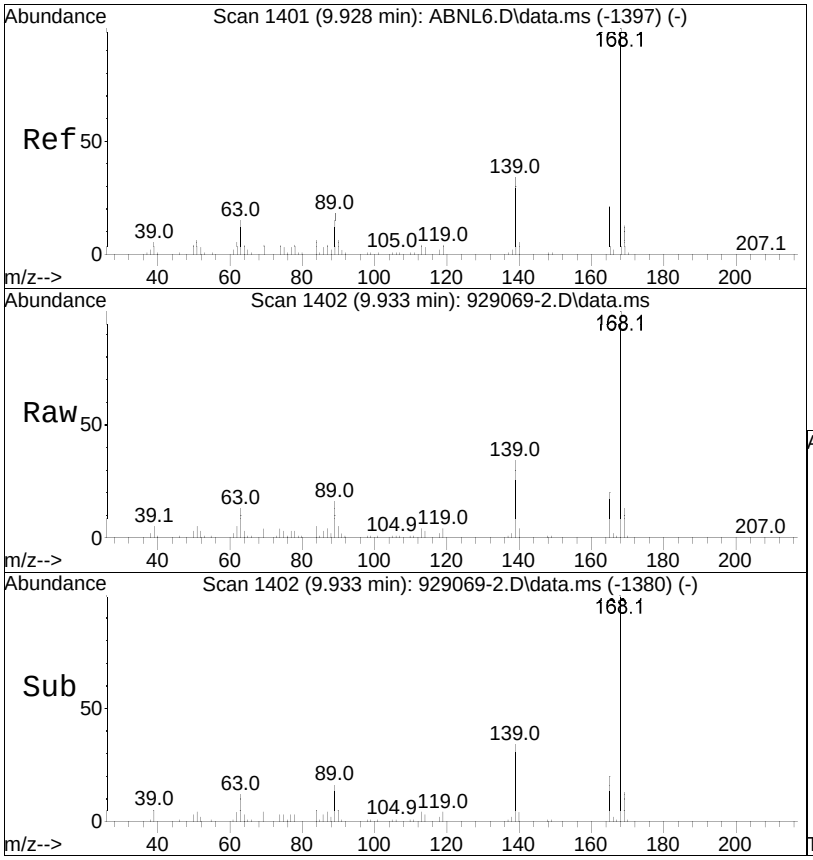


#66
Dibenzofuran
Concen: 3.56 ug/ml
RT: 9.933 min Scan# 1402
Delta R.T. 0.006 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:168 Resp: 195095

Ion	Ratio	Lower	Upper
168	100		
139	34.7	31.4	47.2

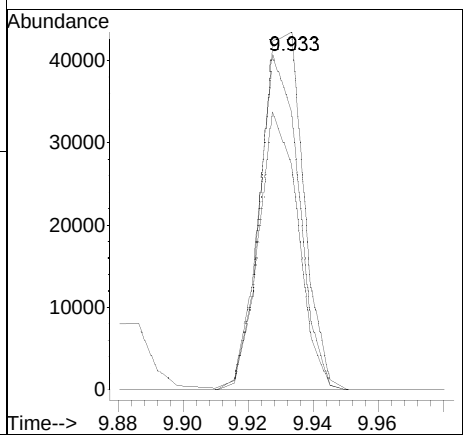


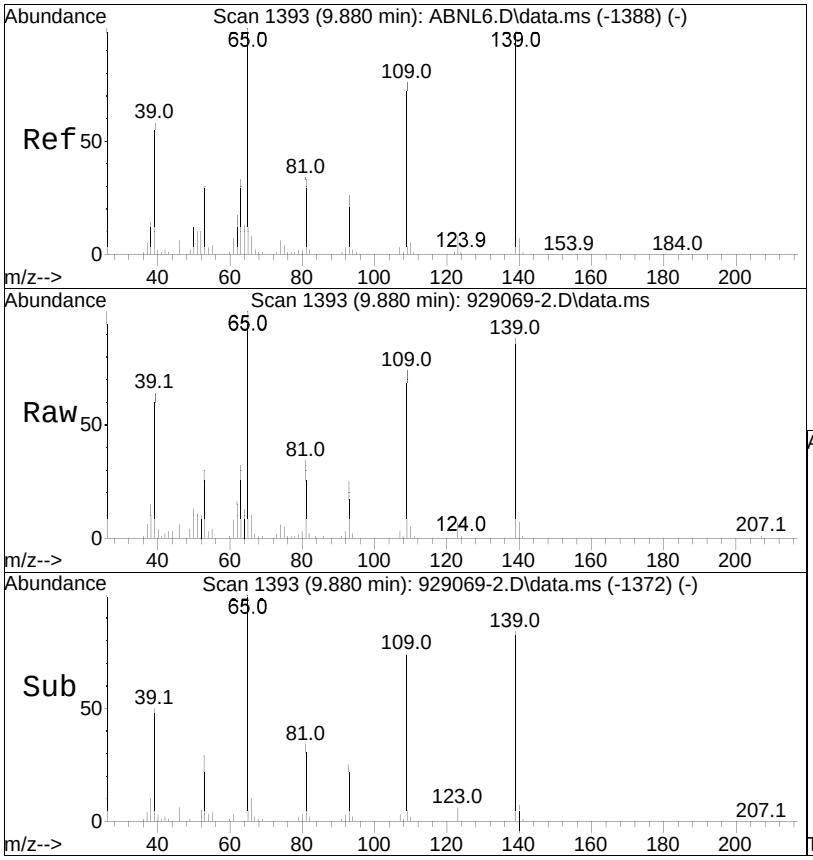


#67
2,4-Dinitrotoluene
Concen: 3.40 ug/ml
RT: 9.933 min Scan# 1402
Delta R.T. 0.006 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:165 Resp: 39336

Ion	Ratio	Lower	Upper
165	100		
89	87.7	72.0	108.0
63	72.6	52.7	79.1

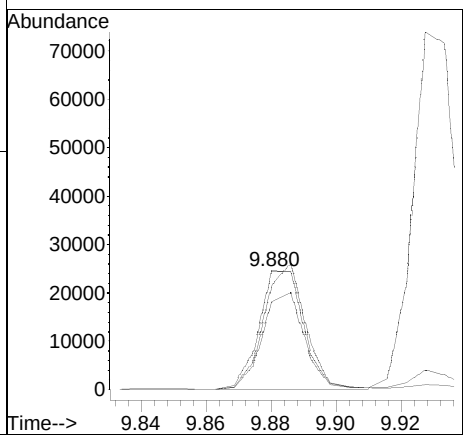


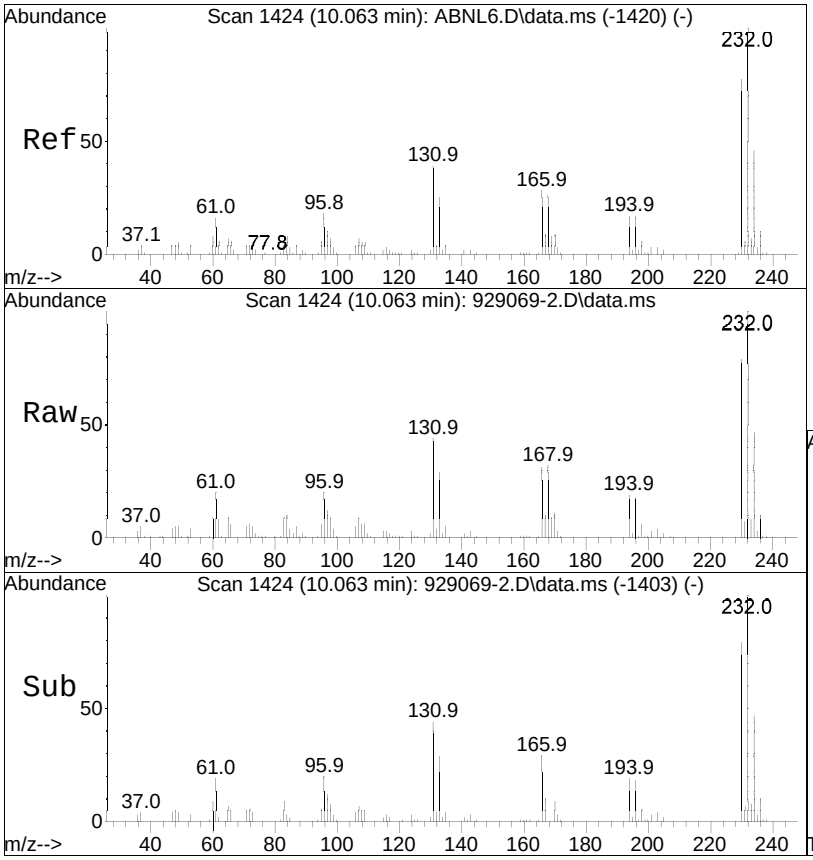


#68
4-Nitrophenol
Concen: 3.41 ug/ml
RT: 9.880 min Scan# 1393
Delta R.T. -0.000 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion: 65 Resp: 23508

Ion	Ratio	Lower	Upper
65	100		
109	77.7	47.4	71.2#
139	98.2	76.6	115.0

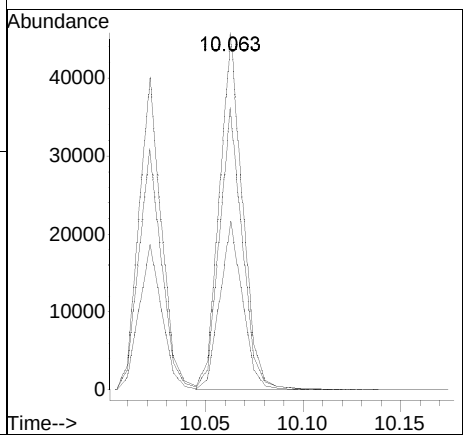


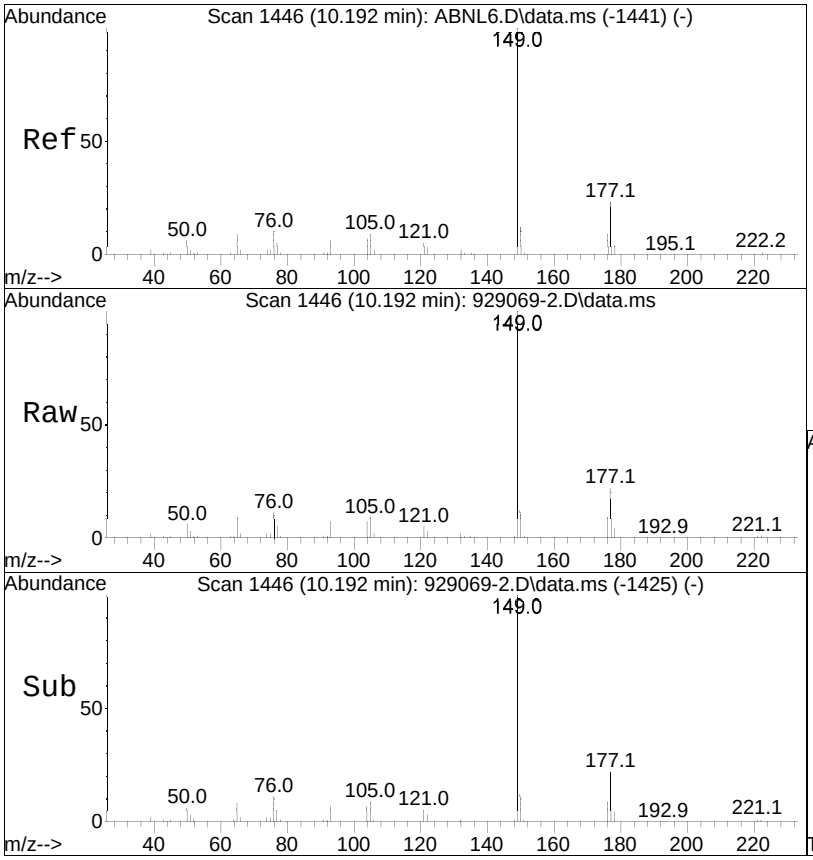


#70
2,3,4,6-Tetrachlorophenol
Concen: 3.89 ug/ml
RT: 10.063 min Scan# 1424
Delta R.T. -0.000 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:232 Resp: 38023

Ion	Ratio	Lower	Upper
232	100		
230	78.2	61.8	92.8
234	46.5	36.2	54.2

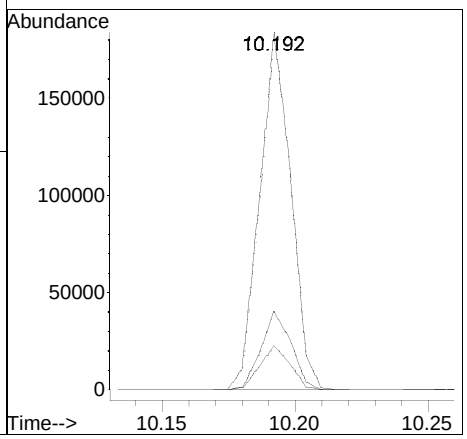


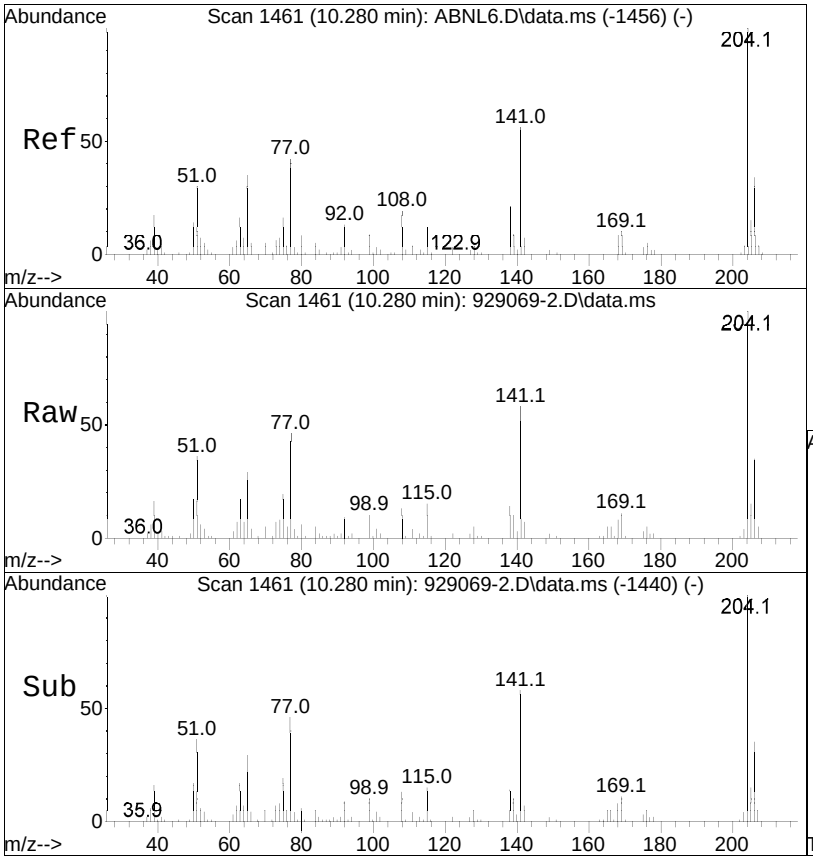


#71
Diethyl phthalate
Concen: 3.64 ug/ml
RT: 10.192 min Scan# 1446
Delta R.T. -0.000 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:149 Resp: 147547

Ion	Ratio	Lower	Upper
149	100		
177	21.5	16.1	24.1
150	12.2	9.4	14.2

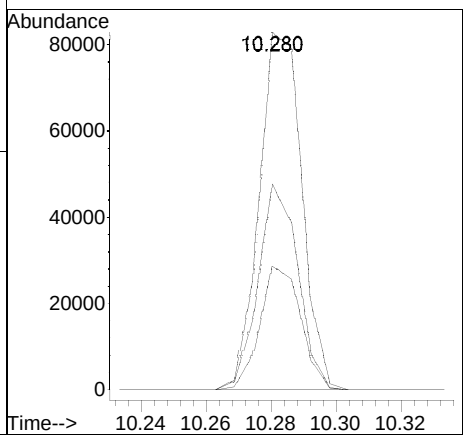


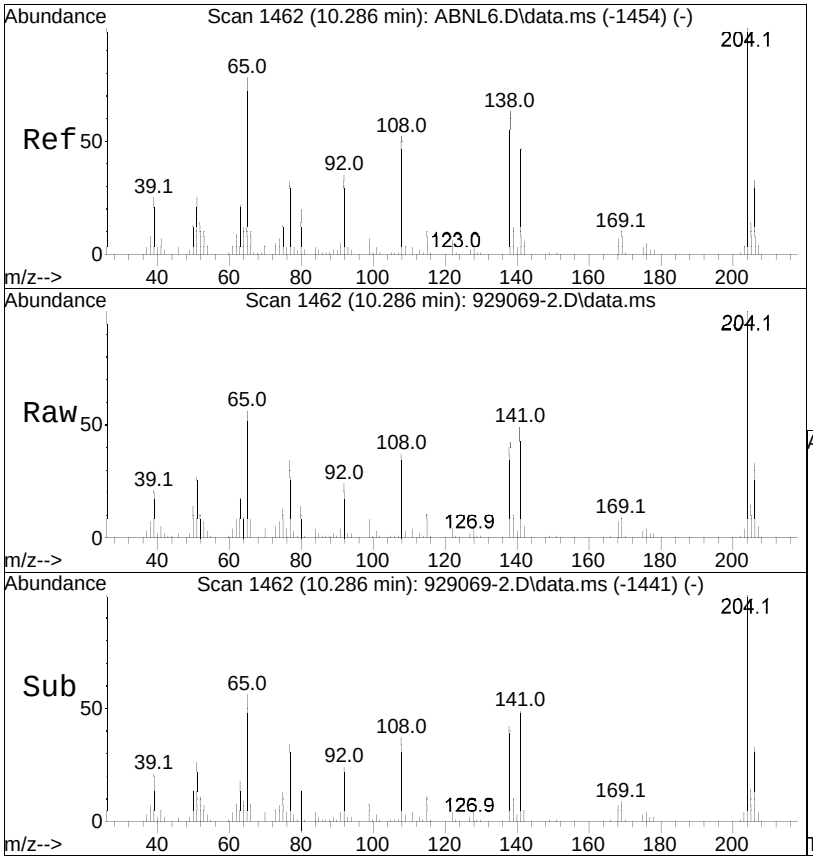


#73
4-Chlorophenyl phenyl ether
Concen: 3.57 ug/ml
RT: 10.280 min Scan# 1461
Delta R.T. -0.000 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:204 Resp: 74729

Ion	Ratio	Lower	Upper
204	100		
206	33.6	25.8	38.6
141	53.9	53.6	80.4

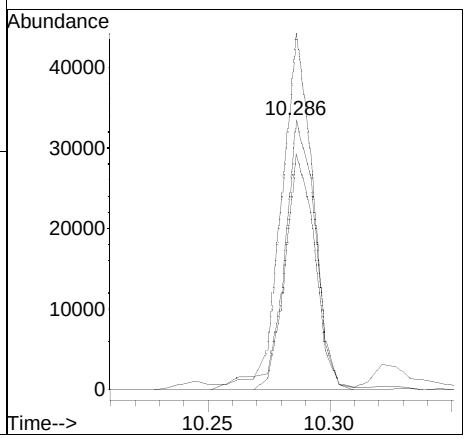


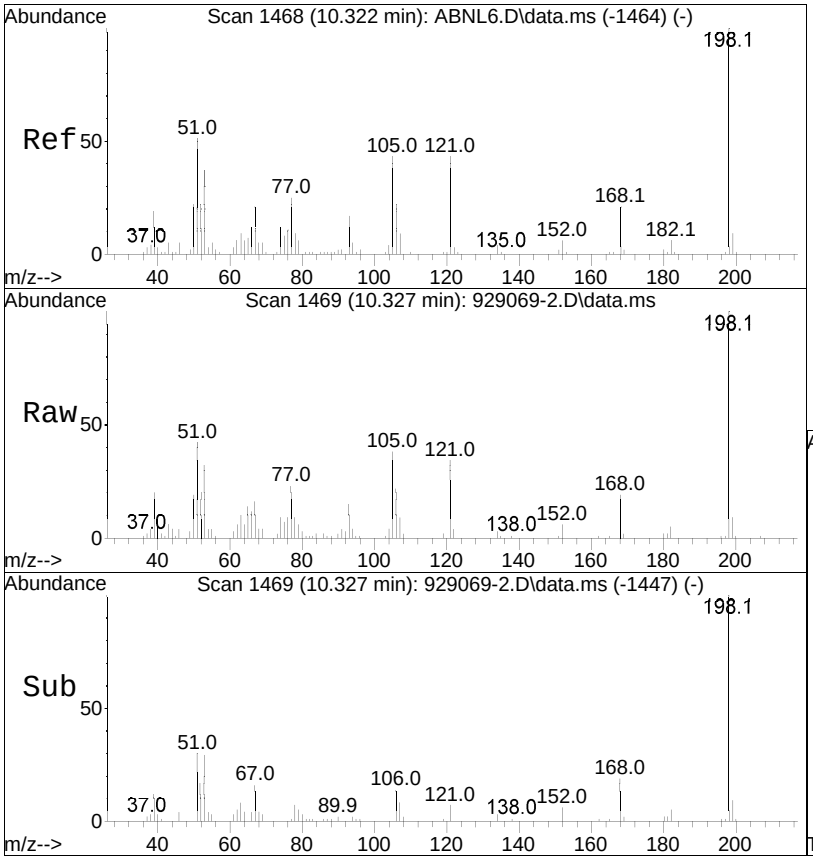


#74
4-Nitroaniline
Concen: 3.65 ug/ml
RT: 10.286 min Scan# 1462
Delta R.T. -0.000 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:138 Resp: 29833

Ion	Ratio	Lower	Upper
138	100		
108	82.8	52.1	78.1#
65	130.5	115.0	172.6

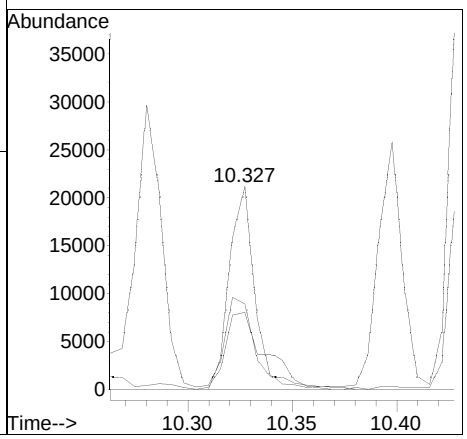


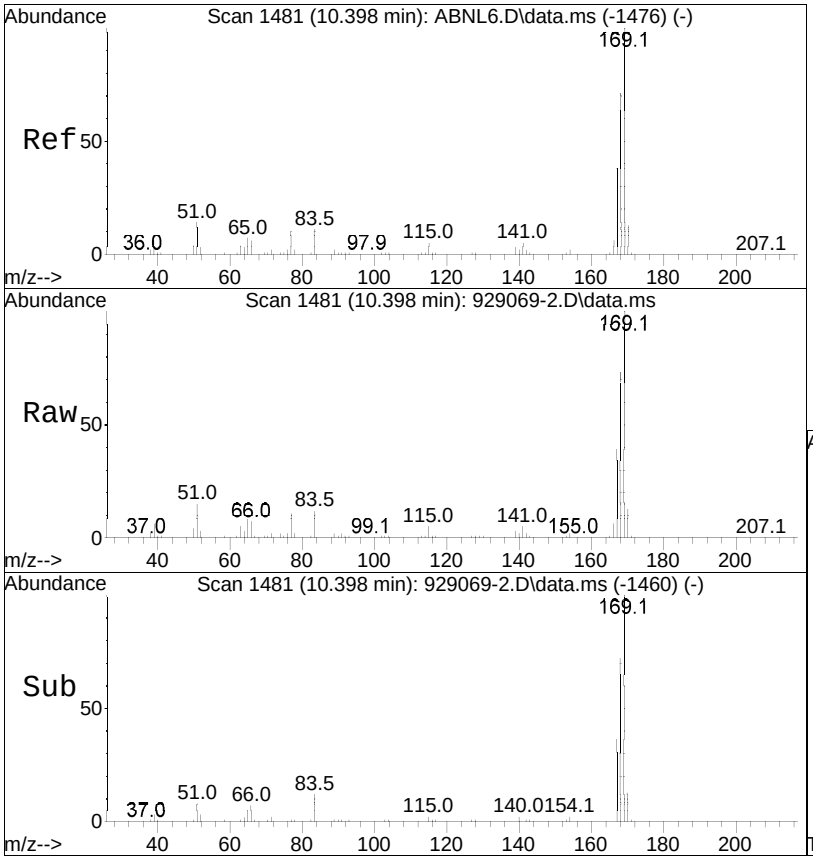


#75
4,6-Dinitro-o-cresol
Concen: 3.07 ug/ml
RT: 10.327 min Scan# 1469
Delta R.T. 0.006 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:198 Resp: 18119

Ion	Ratio	Lower	Upper
198	100		
51	52.7	76.0	114.0#
105	59.1	45.6	68.4

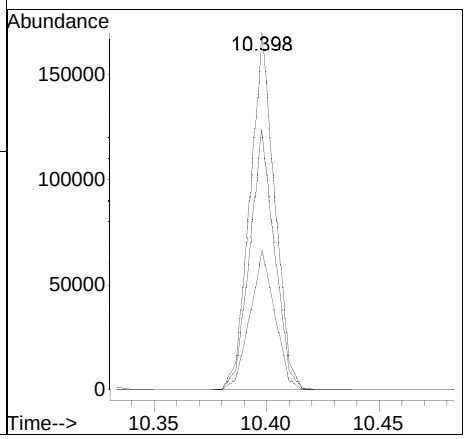


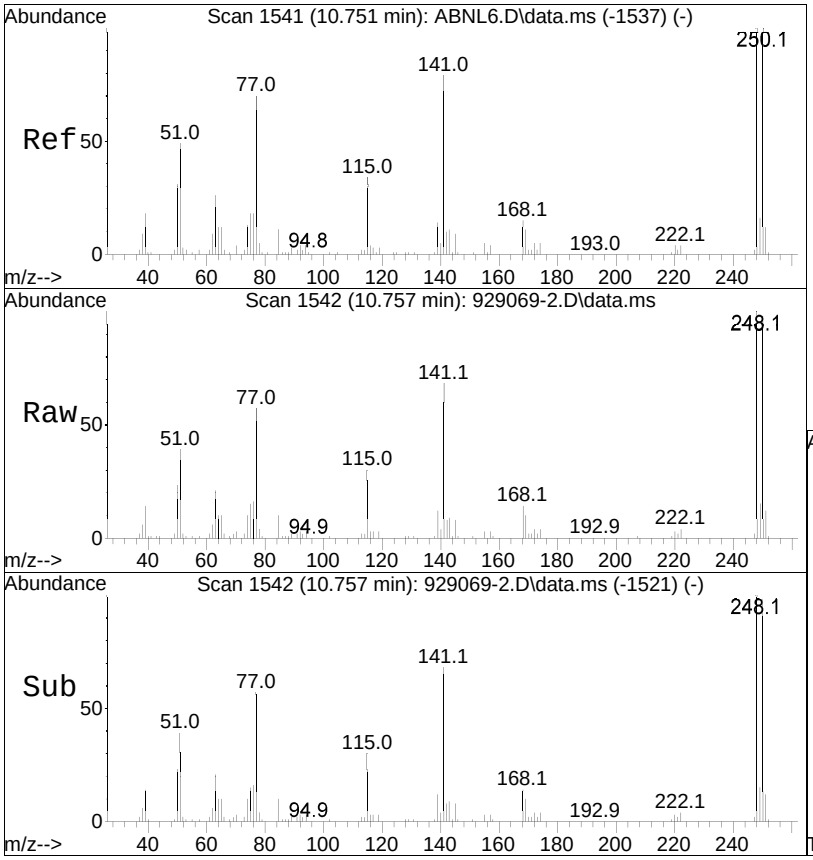


#76
NDPA/DPA
Concen: 3.69 ug/ml
RT: 10.398 min Scan# 1481
Delta R.T. -0.000 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:169 Resp: 130006

Ion	Ratio	Lower	Upper
169	100		
168	72.8	54.0	81.0
167	39.1	28.6	42.8

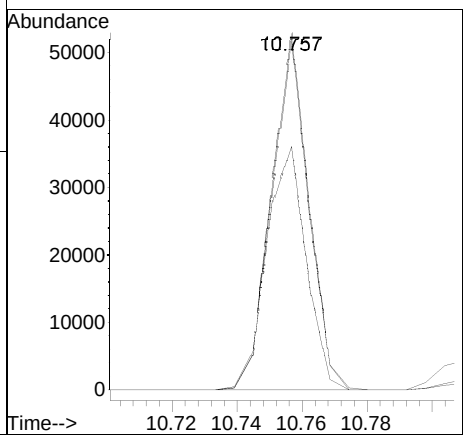


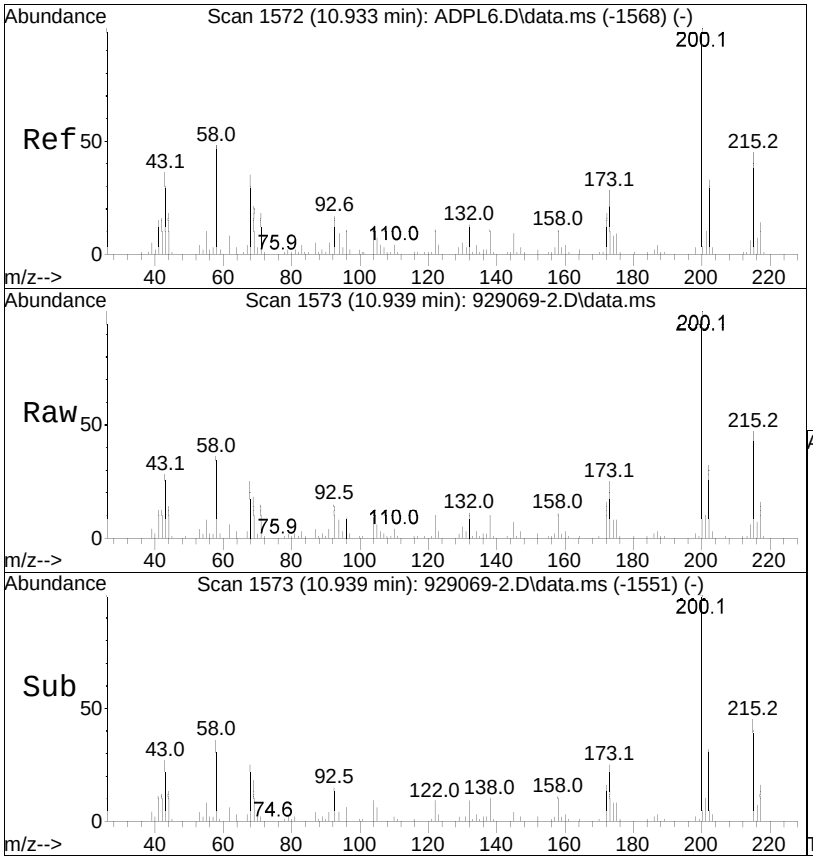


#79
4-Bromophenyl phenyl ether
Concen: 3.55 ug/ml
RT: 10.757 min Scan# 1542
Delta R.T. -0.000 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:248 Resp: 41654

Ion	Ratio	Lower	Upper
248	100		
141	72.7	76.6	114.8#
250	97.6	77.3	115.9

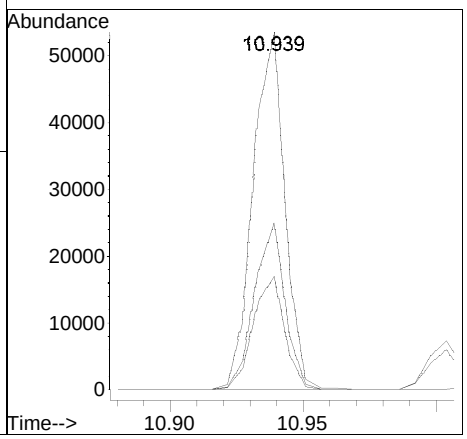


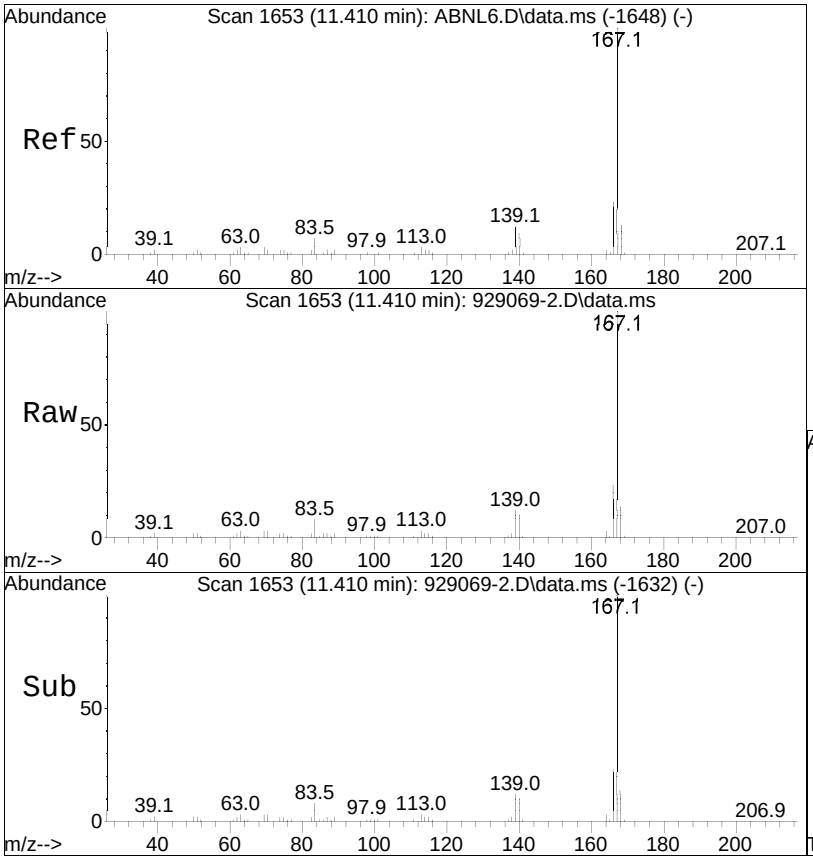


#86
Atrazine
Concen: 4.07 ug/ml
RT: 10.939 min Scan# 1573
Delta R.T. 0.006 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:200 Resp: 43968

Ion	Ratio	Lower	Upper
200	100		
202	31.4	25.8	38.6
215	44.9	40.2	60.4

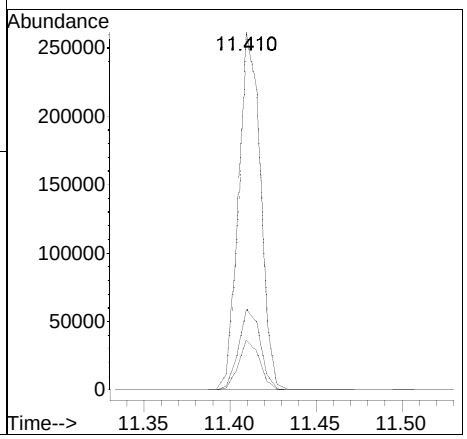


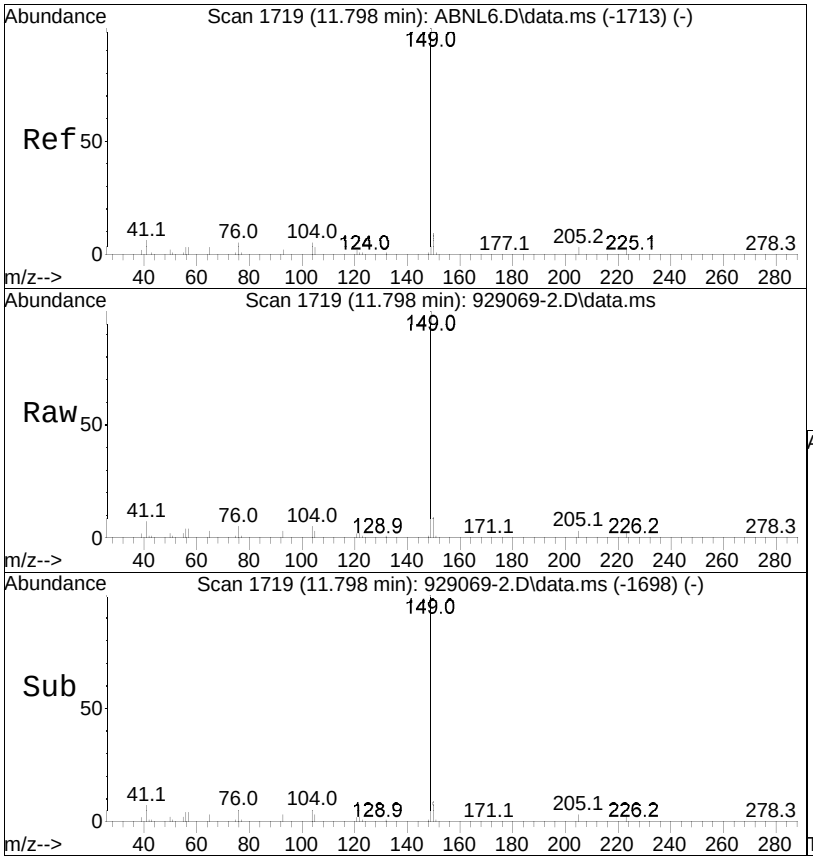


#90
Carbazole
Concen: 3.91 ug/ml
RT: 11.410 min Scan# 1653
Delta R.T. -0.000 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:167 Resp: 228484

Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.6	15.8
166	22.7	17.4	26.0

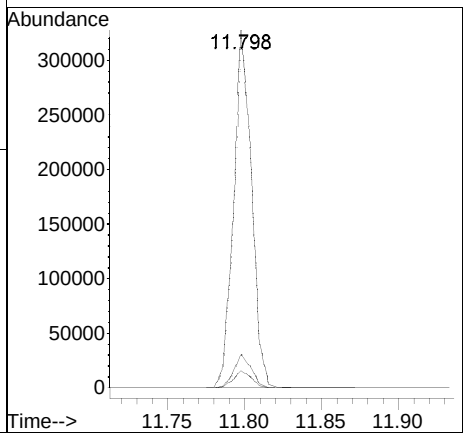


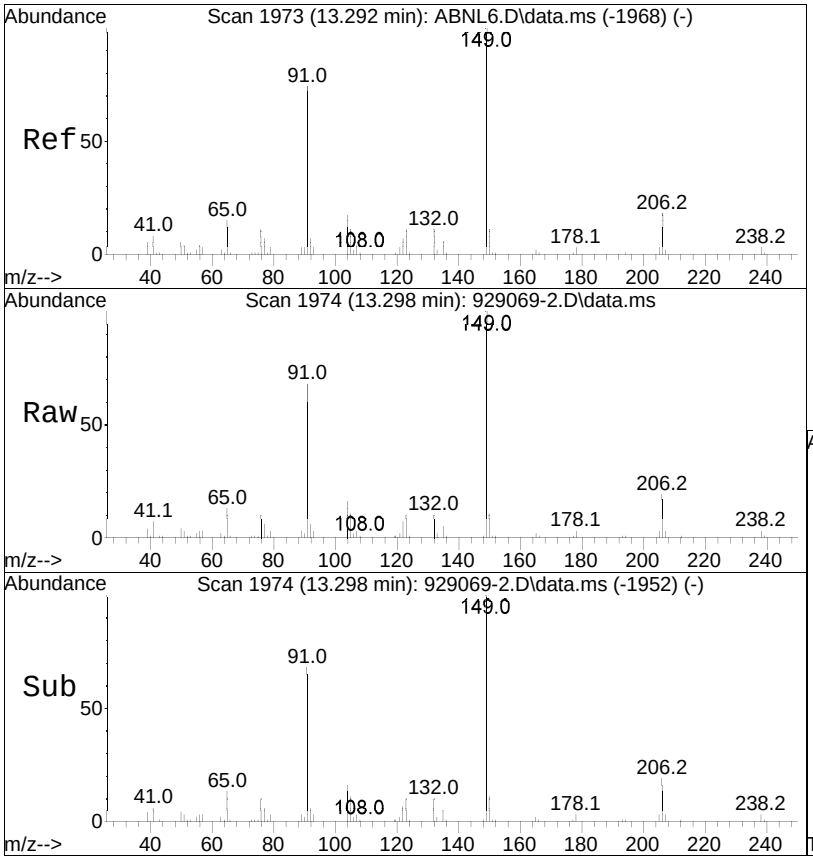


#91
Di-n-butylphthalate
Concen: 3.78 ug/ml
RT: 11.798 min Scan# 1719
Delta R.T. -0.000 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:149 Resp: 259238

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.0	10.6
104	4.9	4.5	6.7

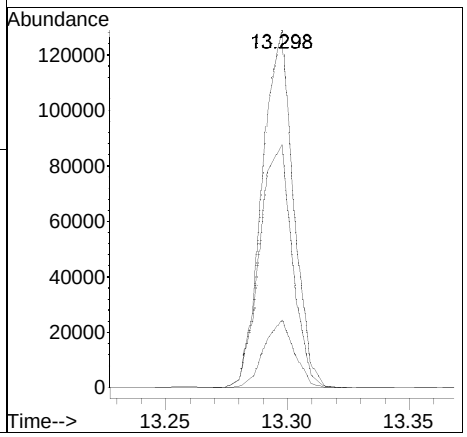


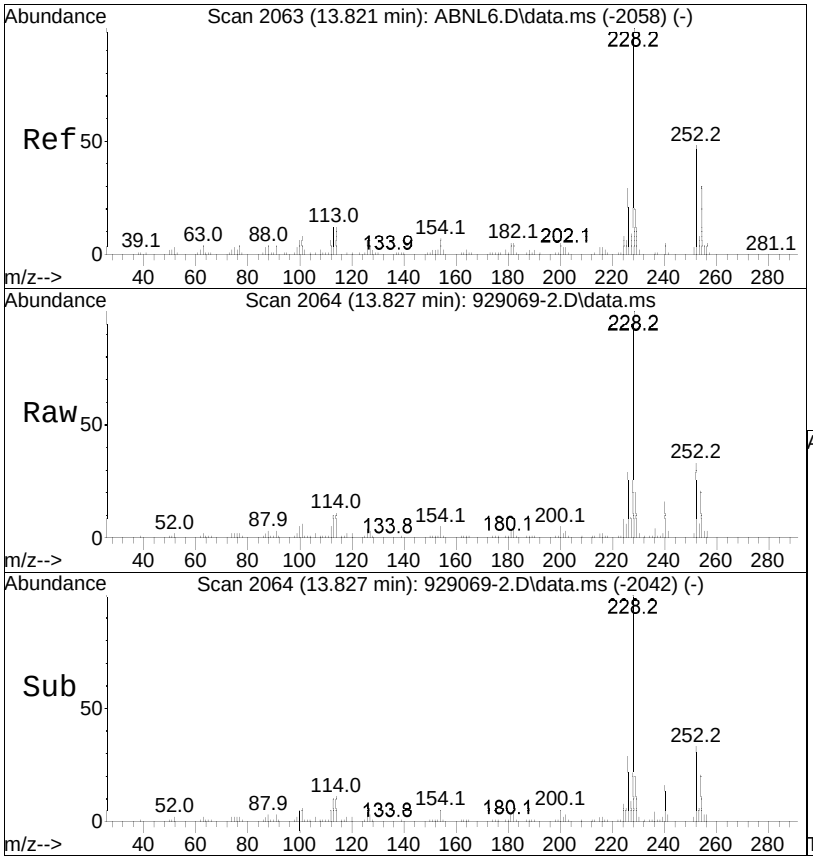


#96
Butyl benzyl phthalate
Concen: 3.62 ug/ml
RT: 13.298 min Scan# 1974
Delta R.T. 0.006 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:149 Resp: 113741

Ion	Ratio	Lower	Upper
149	100		
91	71.4	63.3	94.9
206	18.7	13.9	20.9

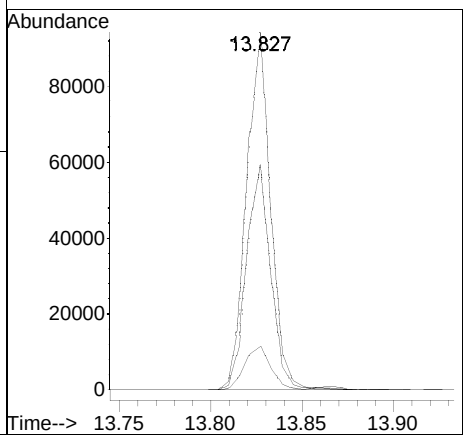


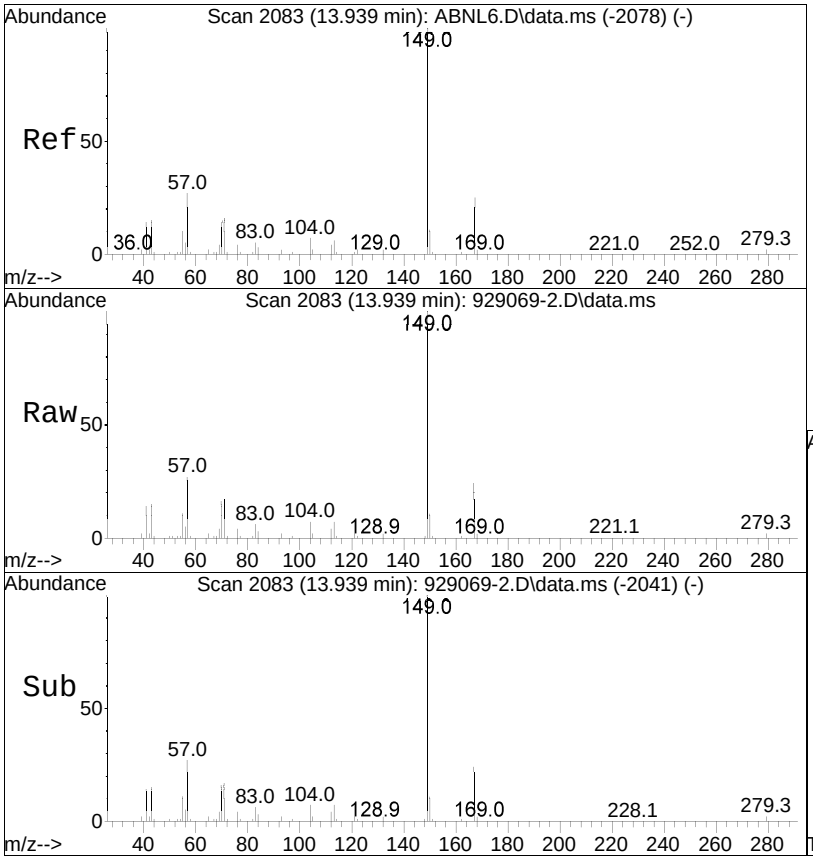


#105
3,3'-Dichlorobenzidine
Concen: 3.46 ug/ml
RT: 13.827 min Scan# 2064
Delta R.T. 0.006 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:252 Resp: 85907

Ion	Ratio	Lower	Upper
252	100		
126	13.7	14.5	21.7#
254	63.5	51.2	76.8

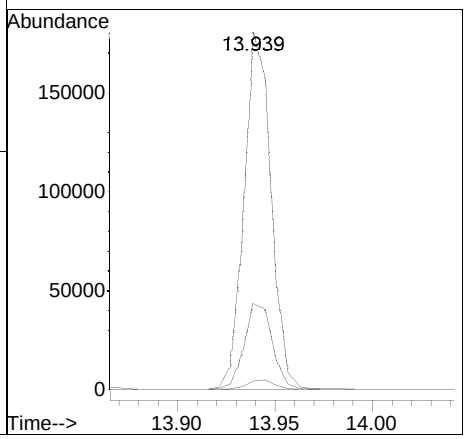


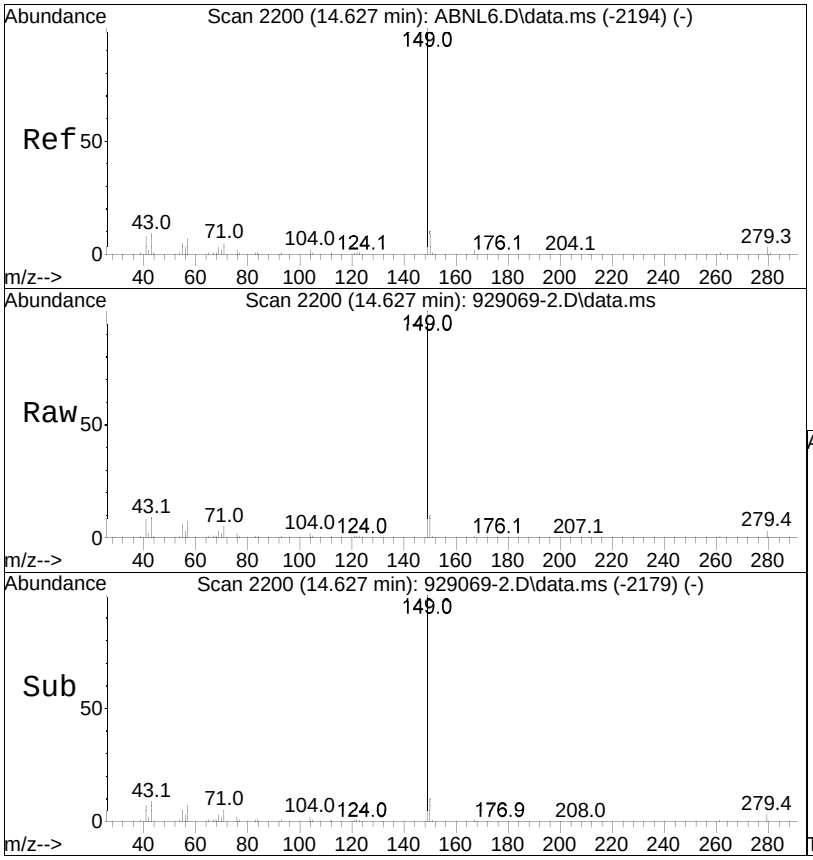


#107
Bis(2-ethylhexyl)phthalate
Concen: 3.51 ug/ml
RT: 13.939 min Scan# 2083
Delta R.T. -0.000 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:149 Resp: 171988

Ion	Ratio	Lower	Upper
149	100		
167	25.2	22.1	33.1
279	2.5	3.0	4.4#

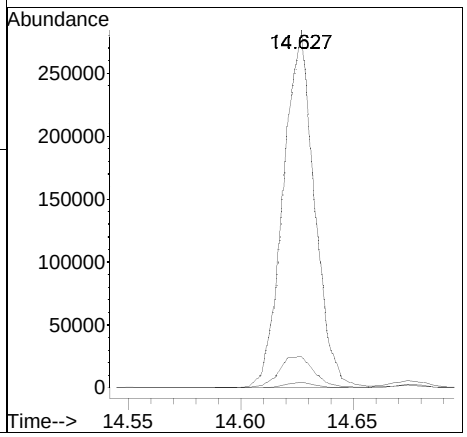




#108
Di-n-octylphthalate
Concen: 3.48 ug/ml
RT: 14.627 min Scan# 2200
Delta R.T. -0.000 min
Lab File: 929069-2.D
Acq: 5 Jun 2024 2:16 am

Tgt Ion:149 Resp: 271023

Ion	Ratio	Lower	Upper
149	100		
43	9.5	18.8	28.2#
167	1.4	1.3	1.9



Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240604RVT\
Data File : 929069-3.D
Acq On : 5 Jun 2024 2:42 am
Operator : SV107:sz
Sample : WG1929069-3,32,,ASK
Misc : WG1929711,WG1929069,ical21169
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 15:42:46 2024
Quant Method : I:\8270\sv107\240604RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 03:04:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240604RVT\ABN0604.D
: 2 - I:\8270\sv107\240604RVT\ADP0604.D
: 3 - I:\8270\sv107\240604RVT\AP90604.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	54007	4.000	ug/ml	0.00
Standard Area 1 = 52630			Recovery = 102.62%			
27) IS2_1,4-Dichlorobenzen...	6.534	152	54007	4.000	ug/ml	0.00
Standard Area 3 = 50356			Recovery = 107.25%			
32) IS3_1,4-Dichlorobenzen...	6.534	152	54007	4.000	ug/ml	0.00
Standard Area 2 = 52597			Recovery = 102.68%			
34) IS1_Naphthalene-d8	7.957	136	199290	4.000	ug/ml	0.00
Standard Area 1 = 197654			Recovery = 100.83%			
54) IS2_Naphthalene-d8	7.957	136	199290	4.000	ug/ml	0.00
Standard Area 3 = 193831			Recovery = 102.82%			
62) IS1_Acenaphthene-d10	9.728	164	120936	4.000	ug/ml	0.00
Standard Area 1 = 122929			Recovery = 98.38%			
82) IS2_Acenaphthene-d10	9.728	164	120936	4.000	ug/ml	0.00
Standard Area 3 = 119793			Recovery = 100.95%			
85) IS3_Acenaphthene-d10	9.728	164	120936	4.000	ug/ml	0.00
Standard Area 2 = 119476			Recovery = 101.22%			
87) IS1_Phenanthrene-d10	11.175	188	240063	4.000	ug/ml	0.00
Standard Area 1 = 245414			Recovery = 97.82%			
99) IS3_Phenanthrene-d10	11.175	188	240063	4.000	ug/ml	# 0.00
Standard Area 2 = 258227			Recovery = 92.97%			
103) IS1_Chrysene-d12	13.833	240	211758	4.000	ug/ml	0.00
Standard Area 1 = 226686			Recovery = 93.41%			
112) IS1_Perylene-d12	15.315	264	208341	4.000	ug/ml	-0.01
Standard Area 1 = 226371			Recovery = 92.04%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.693	112	47729	3.306	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 165.30%#			
7) Phenol-d6	6.157	99	52247	2.928	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 146.40%#			
19) Nitrobenzene-d5	7.187	82	30269	1.925	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 192.50%#			
45) 2-Fluorobiphenyl	9.081	172	79697	1.847	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 184.70%#			
78) 2,4,6-Tribromophenol	10.498	330	20190	3.916	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 195.80%#			

Data Path : I:\8270\SV107\240604RVT\
Data File : 929069-3.D
Acq On : 5 Jun 2024 2:42 am
Operator : SV107:sz
Sample : WG1929069-3,32,,ASK
Misc : WG1929711,WG1929069,ical21169
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 15:42:46 2024
Quant Method : I:\8270\sv107\240604RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 03:04:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240604RVT\ABN0604.D
: 2 - I:\8270\sv107\240604RVT\ADP0604.D
: 3 - I:\8270\sv107\240604RVT\AP90604.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 4-Terphenyl-d14	12.763	244	101262	1.928	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 192.80%#

Target Compounds						Qvalue
6) 2-Chlorophenol	6.275	128	58119	3.653	ug/ml	96
8) Phenol	6.175	94	58498	3.013	ug/ml	97
9) Bis(2-chloroethyl)ether	6.251	93	57270	3.579	ug/ml#	84
14) Bis(2-chloroisopropyl)...	6.910	45	78798	3.596	ug/ml#	44
15) 2-Methylphenol	6.904	108	53378	3.835	ug/ml	100
17) n-Nitrosodi-n-propylamine	7.057	70	45495	3.832	ug/ml#	92
18) 3-Methylphenol/4-Methy...	7.087	108	56568	3.864	ug/ml	97
20) Nitrobenzene	7.204	77	62148	3.846	ug/ml	97
21) Isophorone	7.481	82	117524	3.768	ug/ml	97
22) 2-Nitrophenol	7.563	139	26639	3.700	ug/ml#	91
23) 2,4-Dimethylphenol	7.663	107	50117	3.412	ug/ml	100
24) Bis(2-chloroethoxy)met...	7.751	93	77871	3.826	ug/ml#	98
25) 2,4-Dichlorophenol	7.828	162	59067	4.000	ug/ml	94
28) Benzaldehyde	5.963	105	49000	3.545	ug/ml	98
29) Acetophenone	7.022	105	91902	3.845	ug/ml#	81
37) 4-Chloroaniline	8.057	65	23568	3.766	ug/ml#	69
39) p-Chloro-m-cresol	8.586	107	56087	4.134	ug/ml	99
42) Hexachlorocyclopentadiene	8.875	237	31313	3.063	ug/ml	99
43) 2,4,6-Trichlorophenol	8.992	196	48077	4.075	ug/ml	97
44) 2,4,5-Trichlorophenol	9.022	196	51717	4.133	ug/ml	98
47) 2-Nitroaniline	9.292	138	36296	4.210	ug/ml	91
50) Dimethyl phthalate	9.492	163	161007	3.853	ug/ml#	98
52) 2,6-Dinitrotoluene	9.539	165	31917	4.199	ug/ml#	84
59) Caprolactam	8.369	55	13567	1.826	ug/ml#	70
60) 1,2,4,5-Tetrachloroben...	8.875	216	70915	3.540	ug/ml	97
61) Biphenyl	9.175	154	174546	3.771	ug/ml	100
63) 3-Nitroaniline	9.692	138	32080	4.089	ug/ml	99
65) 2,4-Dinitrophenol	9.798	184	7290	2.356	ug/ml	94
66) Dibenzofuran	9.928	168	205781	3.875	ug/ml	93
67) 2,4-Dinitrotoluene	9.928	165	42219	3.721	ug/ml	95
68) 4-Nitrophenol	9.880	65	24447	3.652	ug/ml#	90
70) 2,3,4,6-Tetrachlorophenol	10.063	232	40392	4.258	ug/ml	99
71) Diethyl phthalate	10.192	149	157177	3.995	ug/ml	97

Data Path : I:\8270\SV107\240604RVT\
Data File : 929069-3.D
Acq On : 5 Jun 2024 2:42 am
Operator : SV107:sz
Sample : WG1929069-3,32,,ASK
Misc : WG1929711,WG1929069,ical21169
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 15:42:46 2024
Quant Method : I:\8270\sv107\240604RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 03:04:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240604RVT\ABN0604.D
: 2 - I:\8270\sv107\240604RVT\ADP0604.D
: 3 - I:\8270\sv107\240604RVT\AP90604.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73) 4-Chlorophenyl phenyl ...	10.280	204	81413	4.007	ug/ml#	88
74) 4-Nitroaniline	10.286	138	32266	4.066	ug/ml#	85
75) 4,6-Dinitro-o-cresol	10.322	198	19249	3.313	ug/ml#	72
76) NDPA/DPA	10.398	169	139492	4.078	ug/ml	95
79) 4-Bromophenyl phenyl e...	10.757	248	43202	3.796	ug/ml#	88
86) Atrazine	10.933	200	42581	4.057	ug/ml	97
90) Carbazole	11.410	167	234748	4.214	ug/ml	98
91) Di-n-butylphthalate	11.798	149	261997	4.012	ug/ml	99
96) Butyl benzyl phthalate	13.292	149	113913	3.782	ug/ml	93
105) 3,3'-Dichlorobenzidine	13.821	252	89667	3.940	ug/ml#	97
107) Bis(2-ethylhexyl)phtha...	13.939	149	171154	3.800	ug/ml#	95
108) Di-n-octylphthalate	14.621	149	266998	3.713	ug/ml#	74

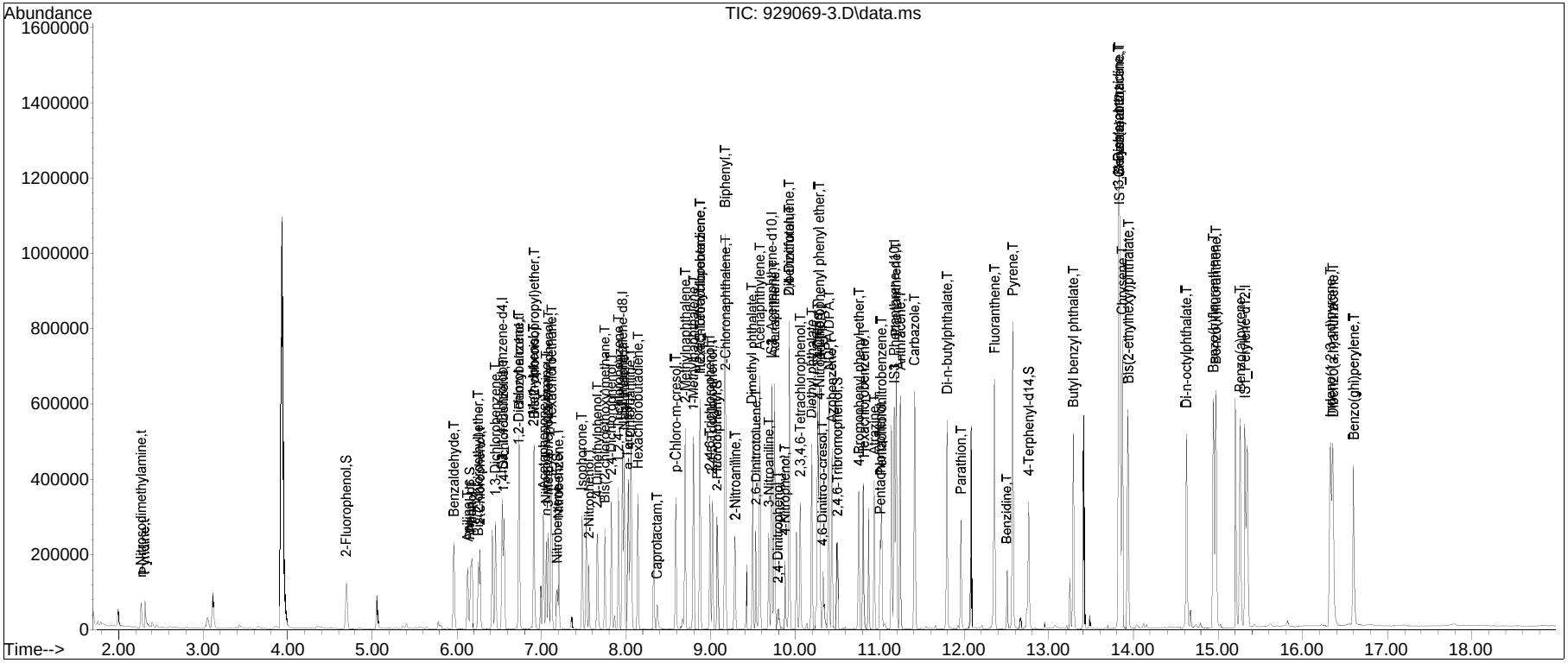
(#) = qualifier out of range (m) = manual integration (+) = signals summed

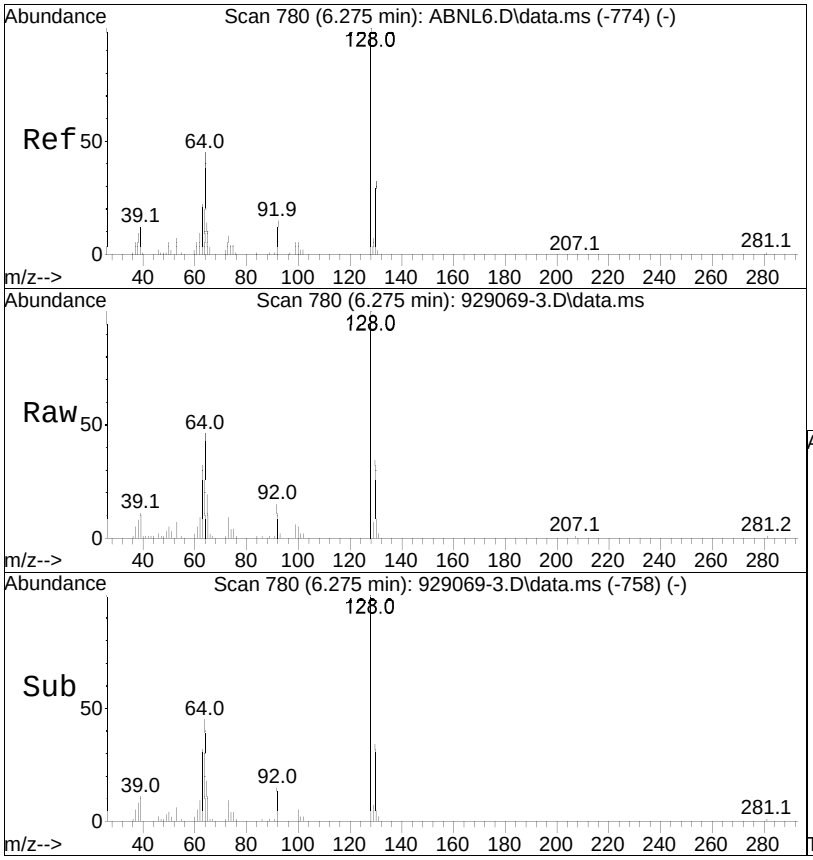
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240604RVT\
Data File : 929069-3.D
Acq On : 5 Jun 2024 2:42 am
Operator : SV107:sz
Sample : WG1929069-3,32,,ASK
Misc : WG1929711,WG1929069,ical21169
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 15:42:46 2024
Quant Method : I:\8270\sv107\240604RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 03:04:04 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MARVT\AP90604.D•

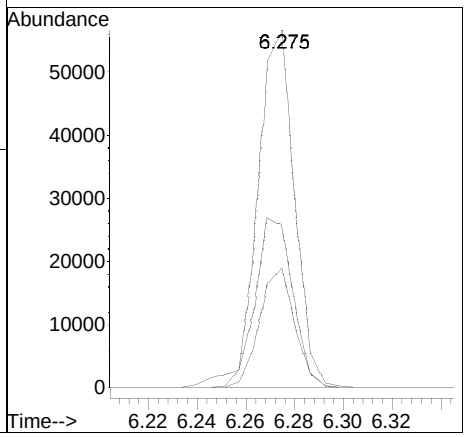


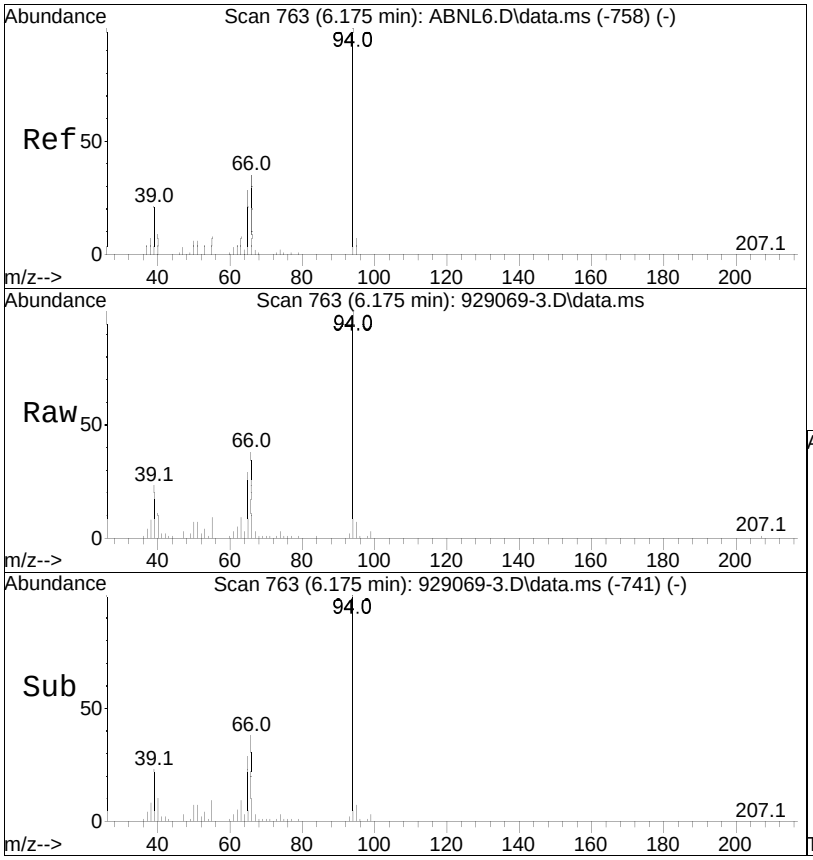


#6
2-Chlorophenol
Concen: 3.65 ug/ml
RT: 6.275 min Scan# 780
Delta R.T. 0.006 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:128 Resp: 58119

Ion	Ratio	Lower	Upper
128	100		
64	51.6	45.1	67.7
130	32.6	26.2	39.4

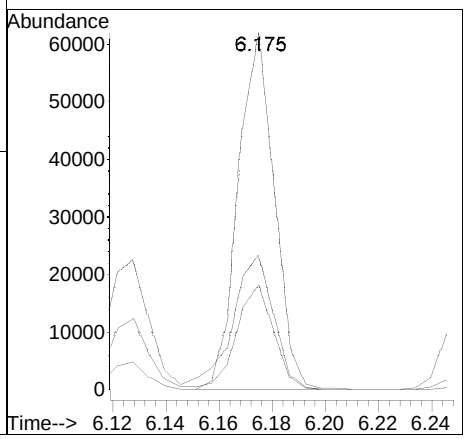


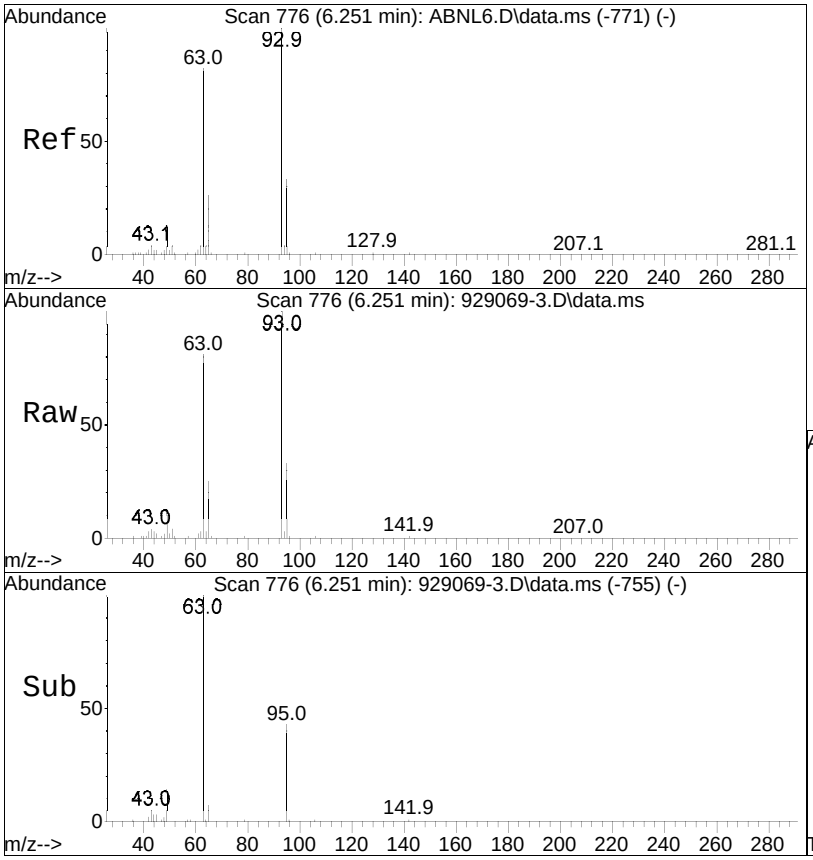


#8
Phenol
Concen: 3.01 ug/ml
RT: 6.175 min Scan# 763
Delta R.T. 0.006 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion: 94 Resp: 58498

Ion	Ratio	Lower	Upper
94	100		
65	30.1	26.0	39.0
66	43.1	33.8	50.8

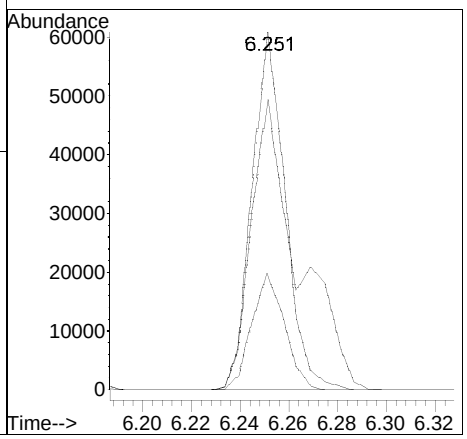


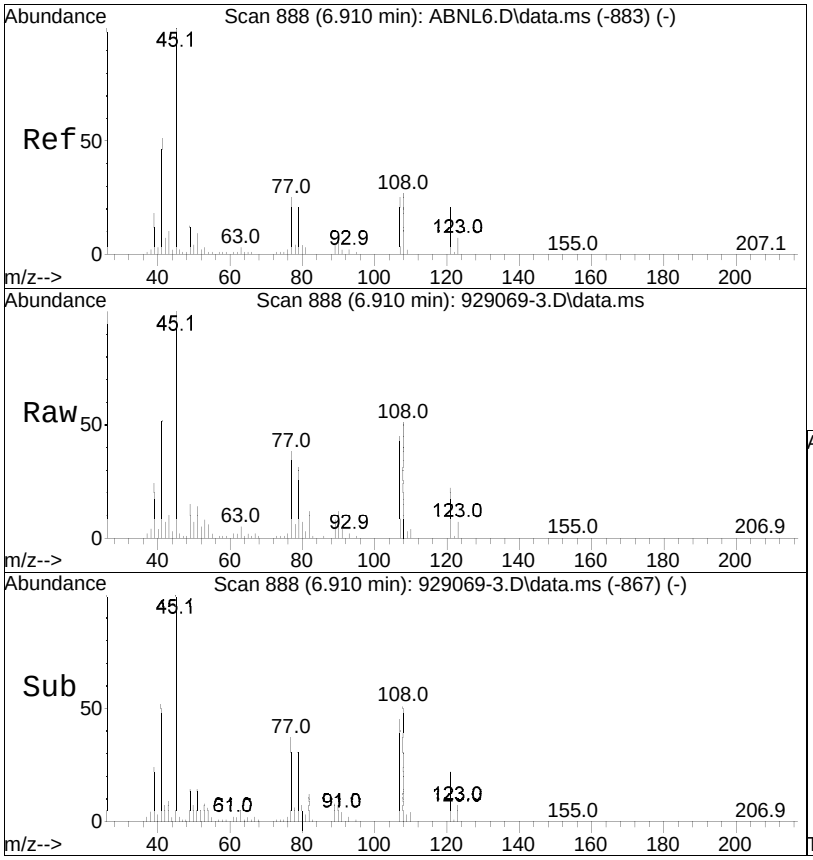


#9
Bis(2-chloroethyl)ether
Concen: 3.58 ug/ml
RT: 6.251 min Scan# 776
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion: 93 Resp: 57270

Ion	Ratio	Lower	Upper
93	100		
63	114.2	74.6	111.8#
95	32.2	25.9	38.9

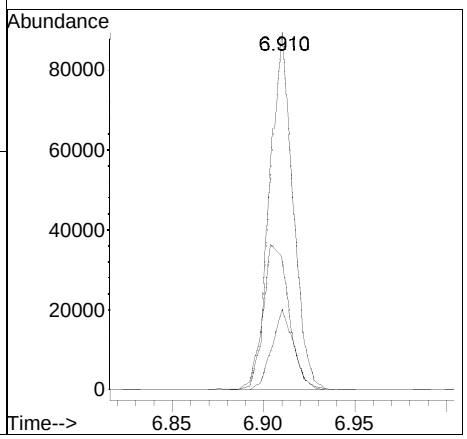


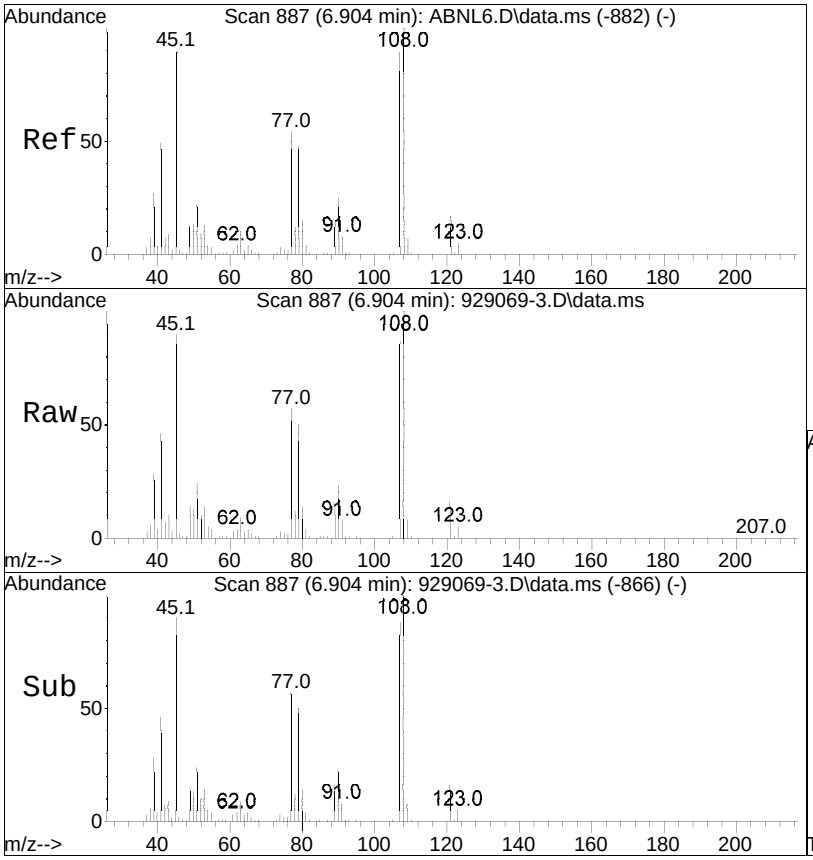


#14
Bis(2-chloroisopropyl)ether
Concen: 3.60 ug/ml
RT: 6.910 min Scan# 888
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion: 45 Resp: 78798

Ion	Ratio	Lower	Upper
45	100		
121	21.4	9.8	14.6#
77	45.8	6.1	9.1#

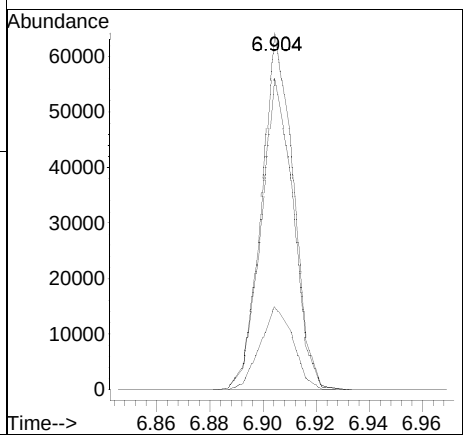


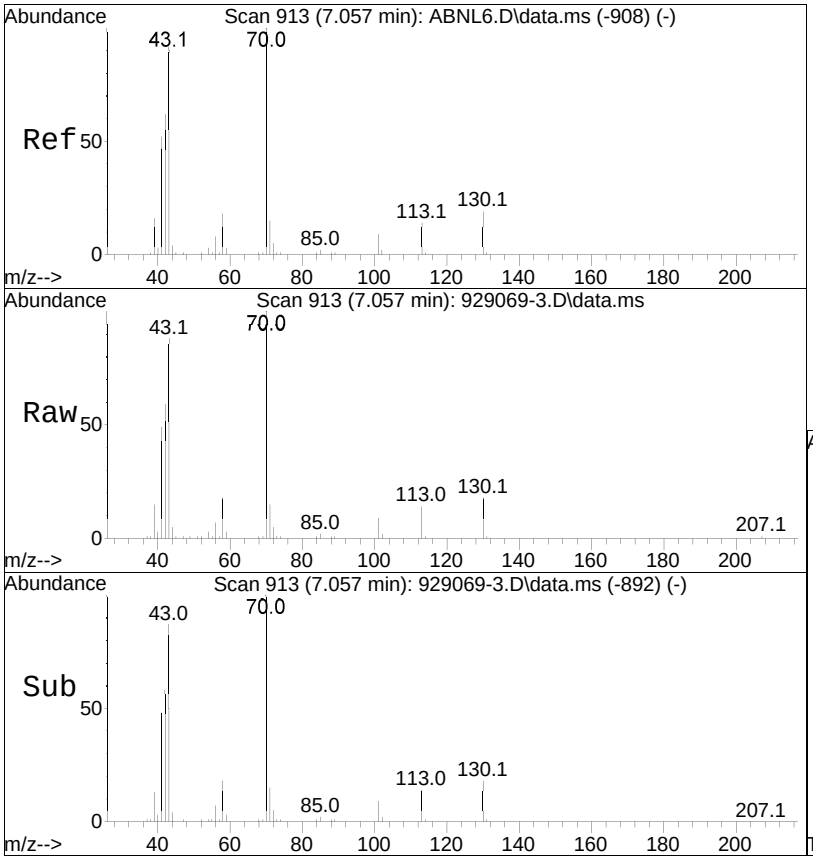


#15
2-Methylphenol
Concen: 3.84 ug/ml
RT: 6.904 min Scan# 887
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:108 Resp: 53378

Ion	Ratio	Lower	Upper
108	100		
107	88.3	70.7	106.1
90	24.2	18.7	28.1

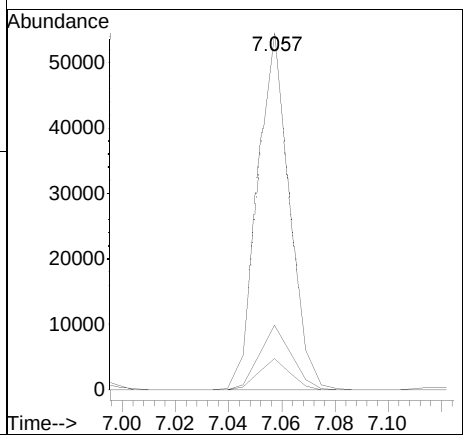


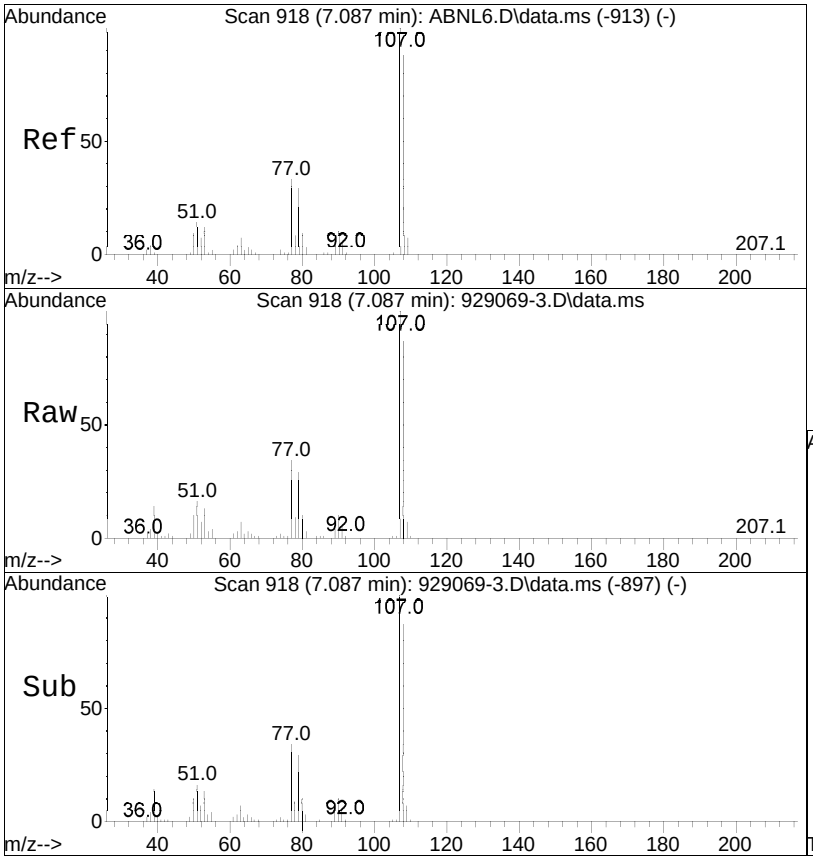


#17
n-Nitrosodi-n-propylamine
Concen: 3.83 ug/ml
RT: 7.057 min Scan# 913
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion: 70 Resp: 45495

Ion	Ratio	Lower	Upper
70	100		
130	18.1	18.2	27.4#
101	8.5	7.8	11.8

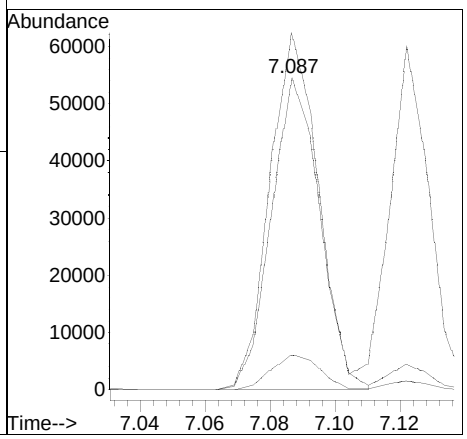


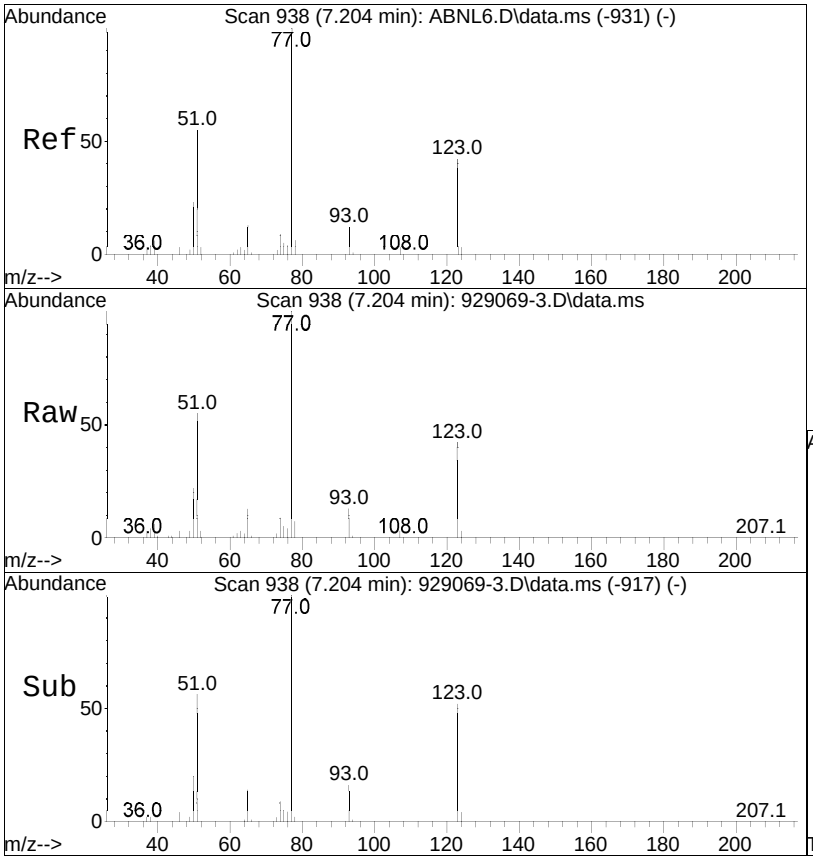


#18
3-Methylphenol/4-Methylphenol
Concen: 3.86 ug/ml
RT: 7.087 min Scan# 918
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:108 Resp: 56568

Ion	Ratio	Lower	Upper
108	100		
107	113.8	88.6	132.8
90	11.4	8.8	13.2

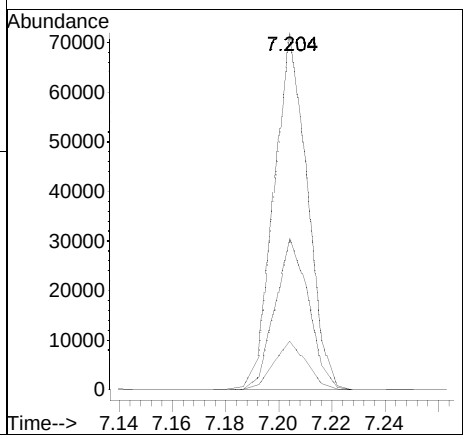


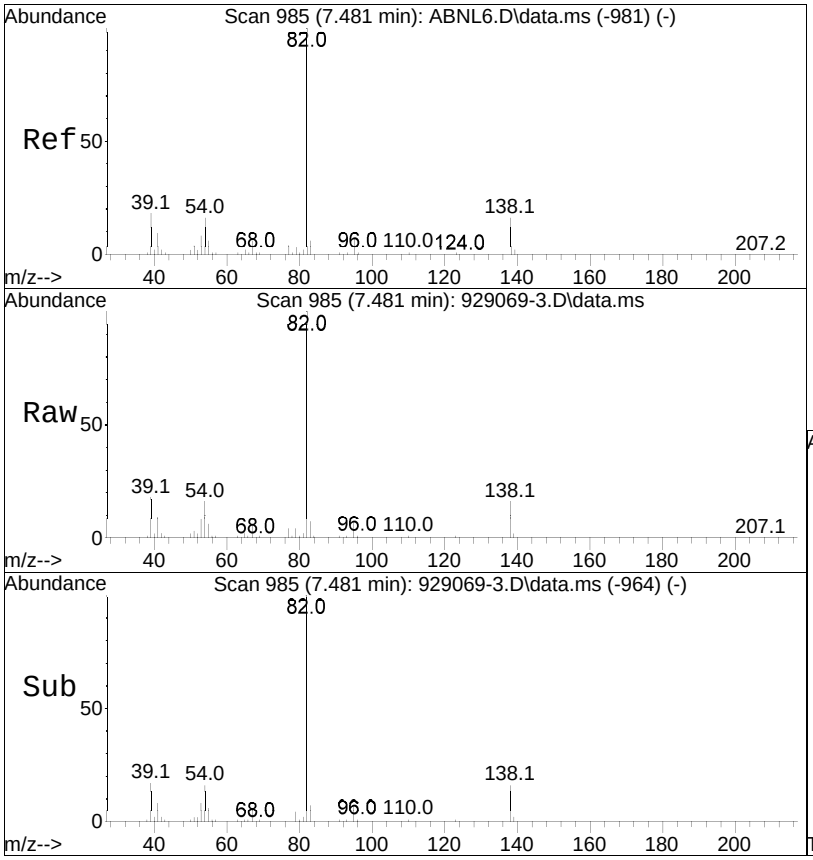


#20
Nitrobenzene
Concen: 3.85 ug/ml
RT: 7.204 min Scan# 938
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion: 77 Resp: 62148

Ion	Ratio	Lower	Upper
77	100		
123	43.0	36.3	54.5
65	13.6	11.6	17.4

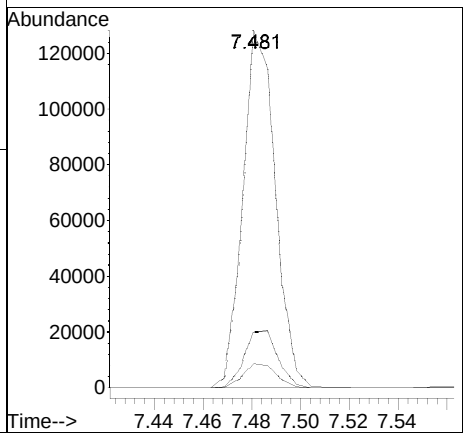


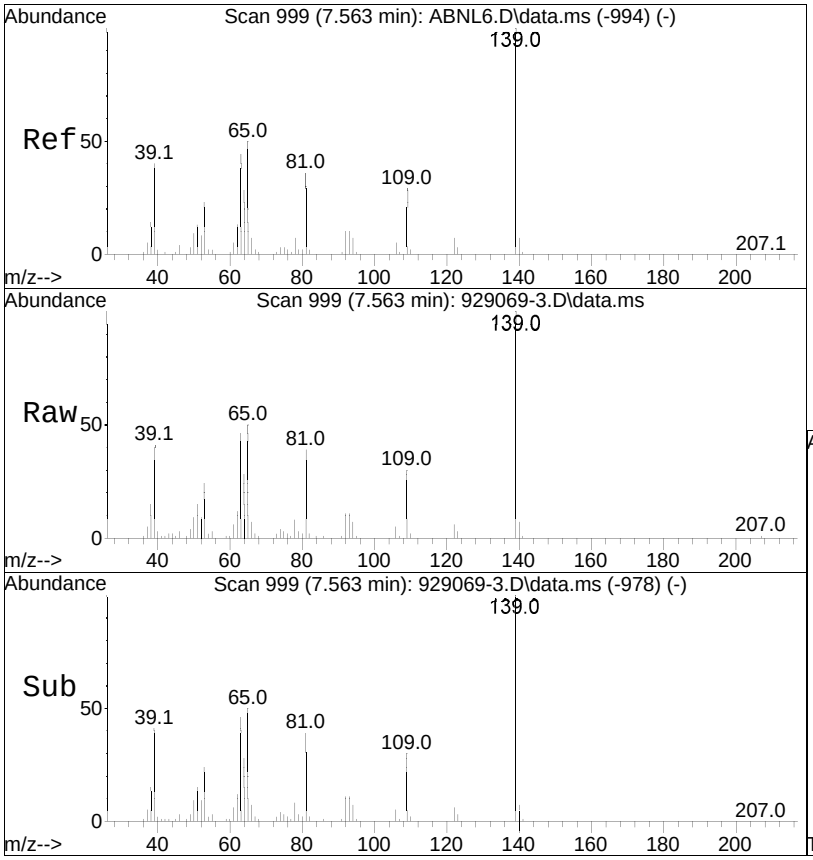


#21
Isophorone
Concen: 3.77 ug/ml
RT: 7.481 min Scan# 985
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion: 82 Resp: 117524

Ion	Ratio	Lower	Upper
82	100		
138	16.6	14.7	22.1
95	7.0	5.2	7.8

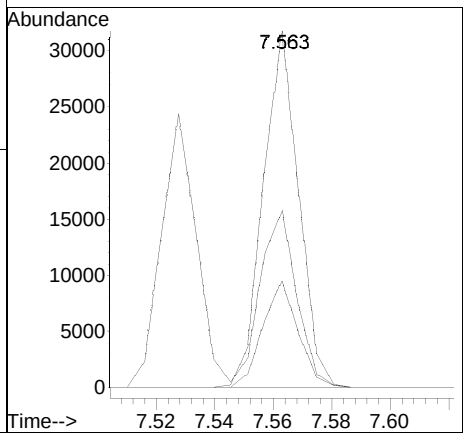


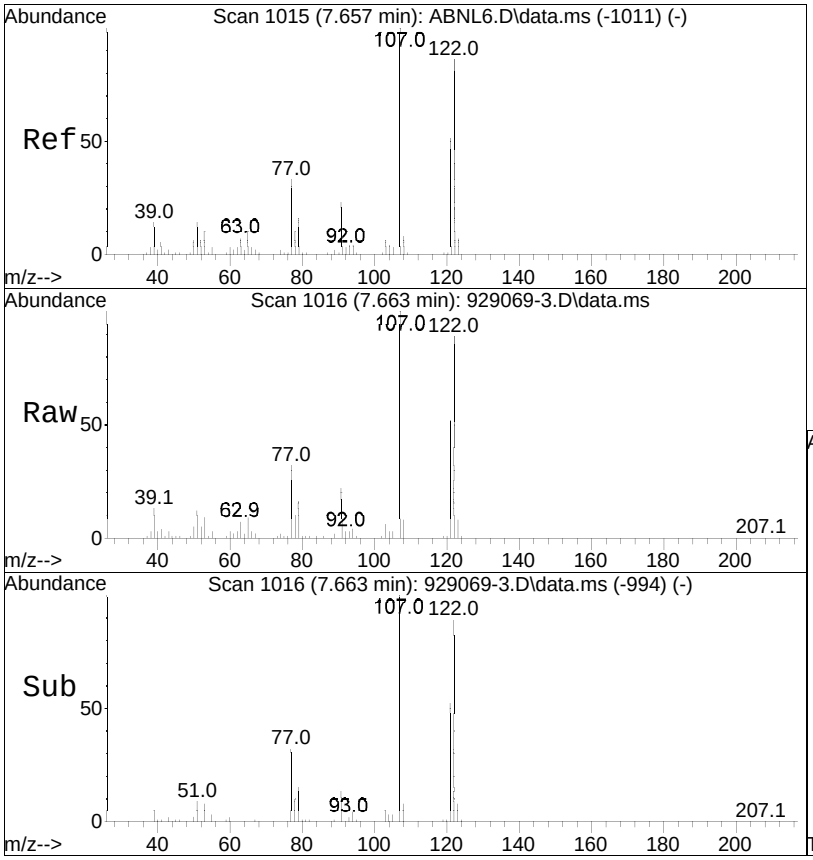


#22
2-Nitrophenol
Concen: 3.70 ug/ml
RT: 7.563 min Scan# 999
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:139 Resp: 26639

Ion	Ratio	Lower	Upper
139	100		
109	29.9	19.4	29.0#
65	51.4	46.1	69.1

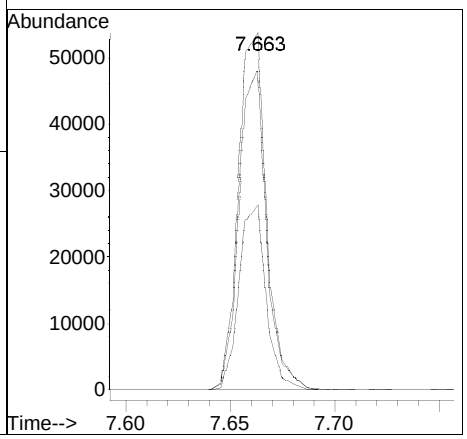


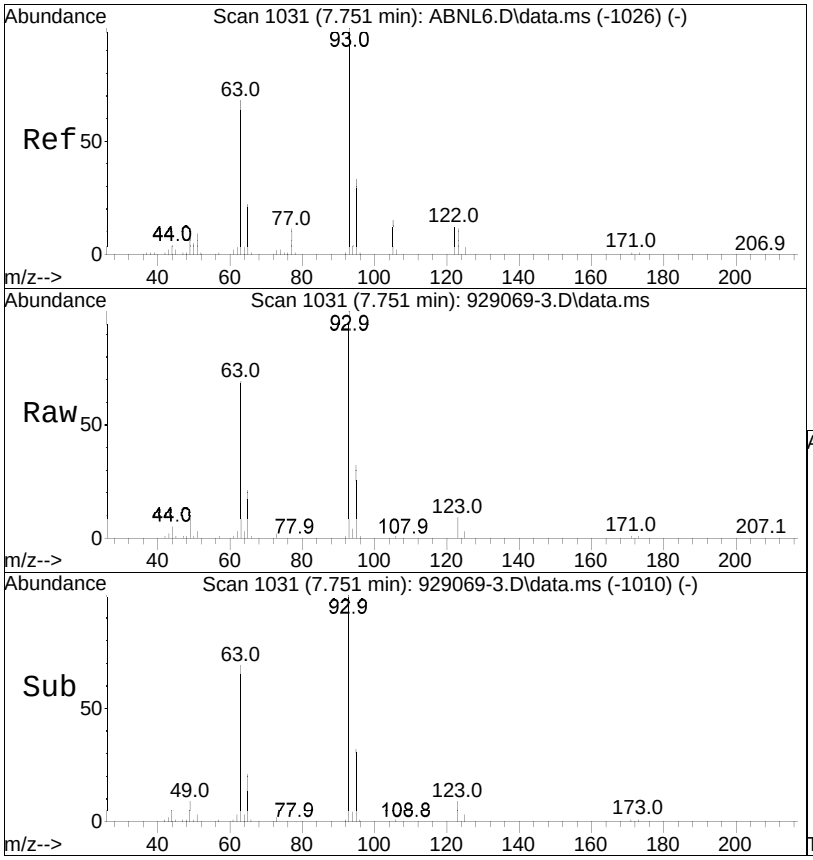


#23
2,4-Dimethylphenol
Concen: 3.41 ug/ml
RT: 7.663 min Scan# 1016
Delta R.T. 0.006 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:107 Resp: 50117

Ion	Ratio	Lower	Upper
107	100		
121	50.1	40.0	60.0
122	87.4	70.2	105.4

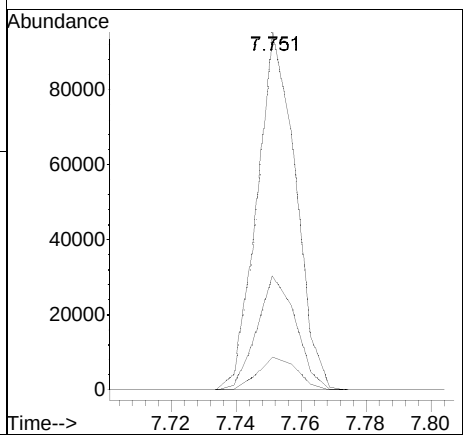


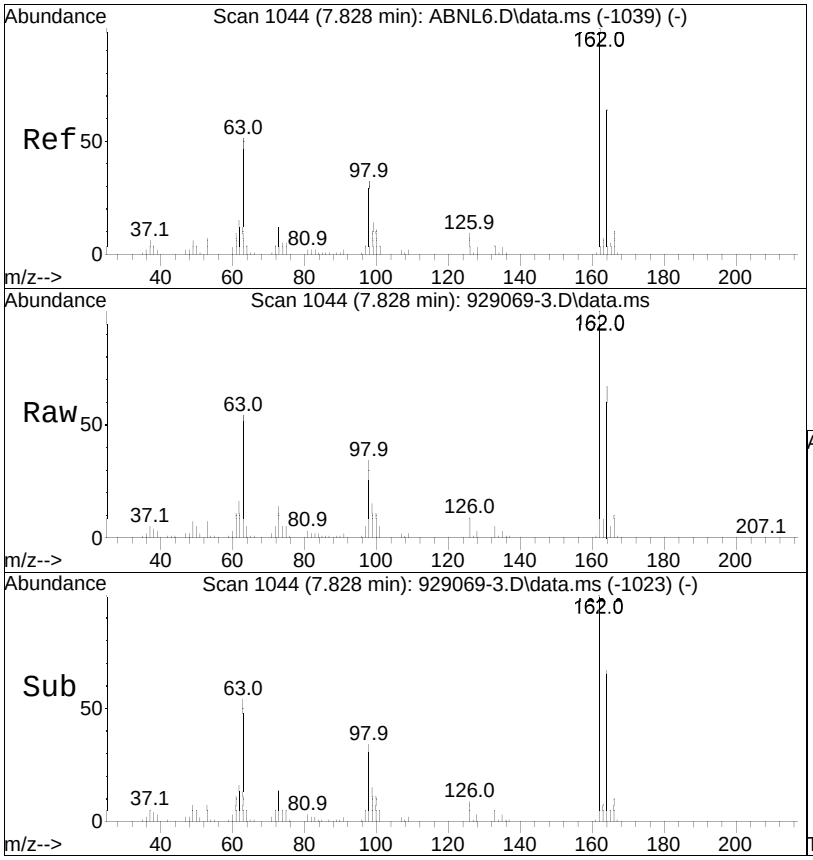


#24
Bis(2-chloroethoxy)methane
Concen: 3.83 ug/ml
RT: 7.751 min Scan# 1031
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion: 93 Resp: 77871

Ion	Ratio	Lower	Upper
93	100		
95	32.5	25.8	38.8
123	9.6	10.1	15.1#

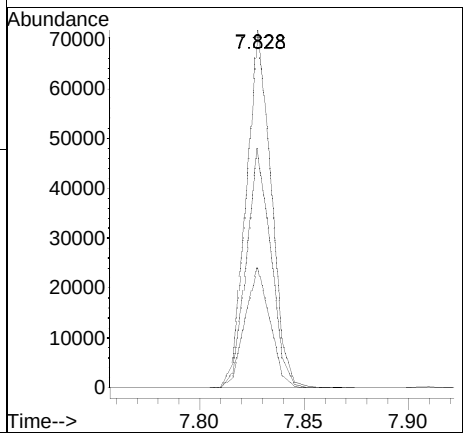


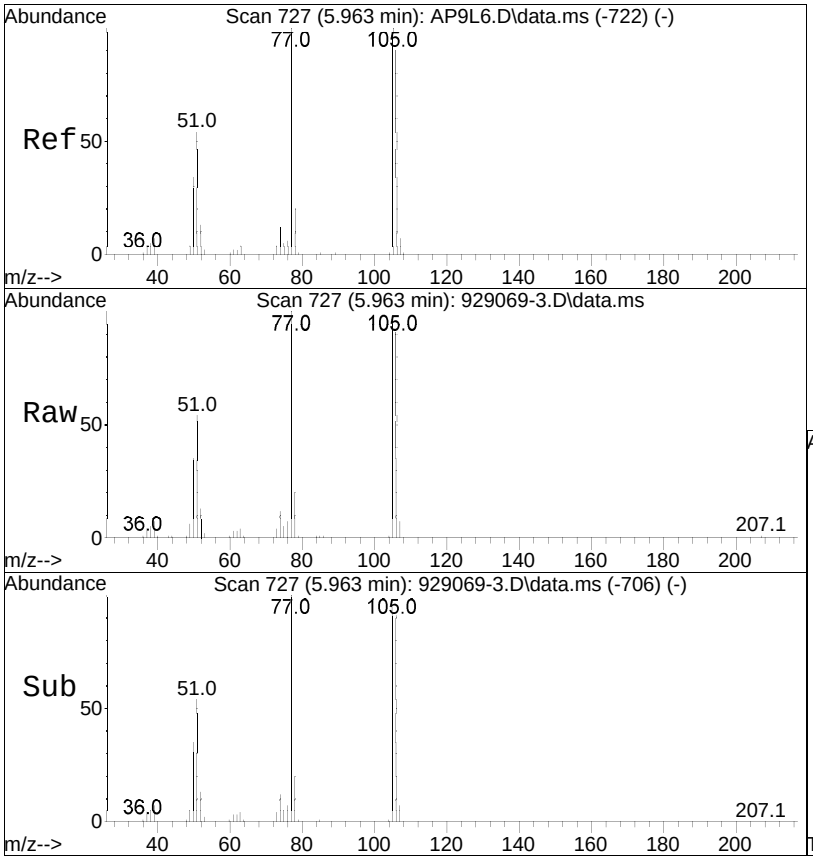


#25
2,4-Dichlorophenol
Concen: 4.00 ug/ml
RT: 7.828 min Scan# 1044
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:162 Resp: 59067

Ion	Ratio	Lower	Upper
162	100		
164	65.9	51.0	76.4
98	34.0	32.2	48.2

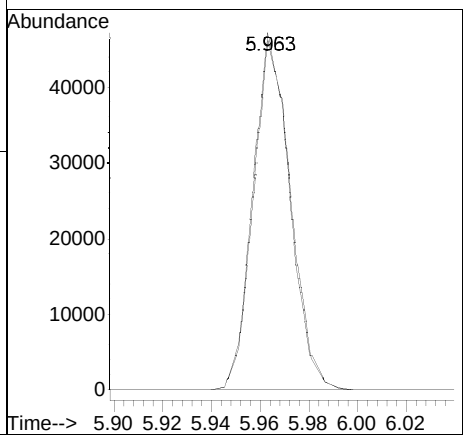


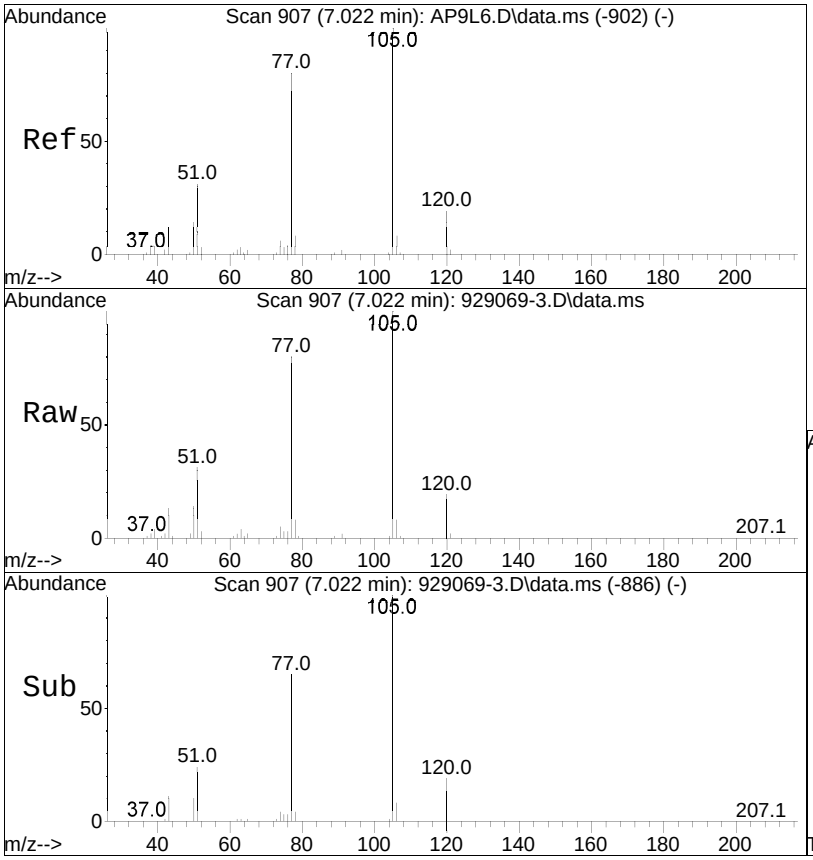


#28
Benzaldehyde
Concen: 3.54 ug/ml
RT: 5.963 min Scan# 727
Delta R.T. 0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:105 Resp: 49000

Ion	Ratio	Lower	Upper
105	100		
77	100.4	82.2	123.4

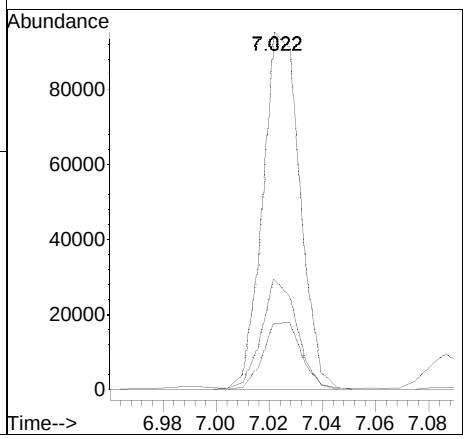


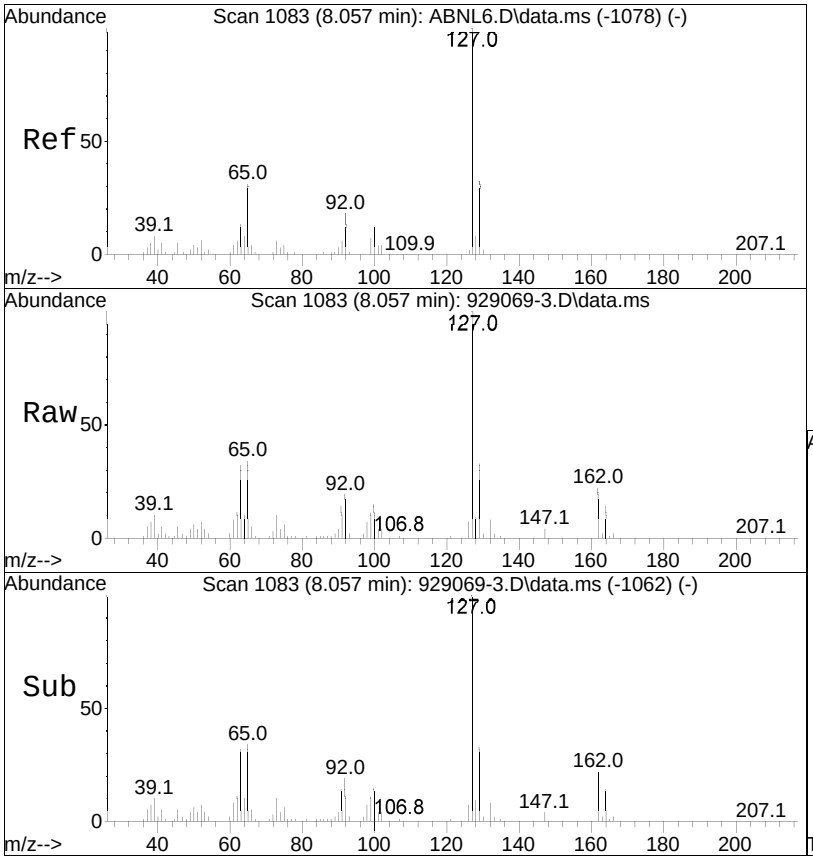


#29
Acetophenone
Concen: 3.85 ug/ml
RT: 7.022 min Scan# 907
Delta R.T. 0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:105 Resp: 91902

Ion	Ratio	Lower	Upper
105	100		
120	19.5	20.5	30.7#
51	29.3	34.9	52.3#

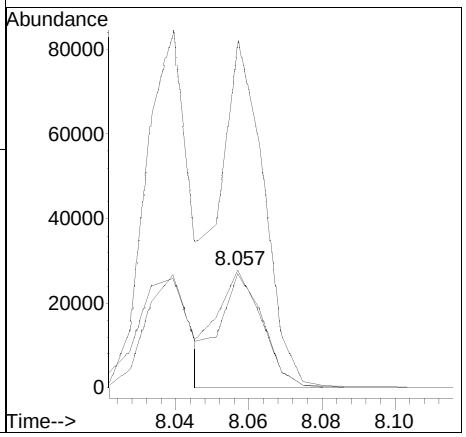


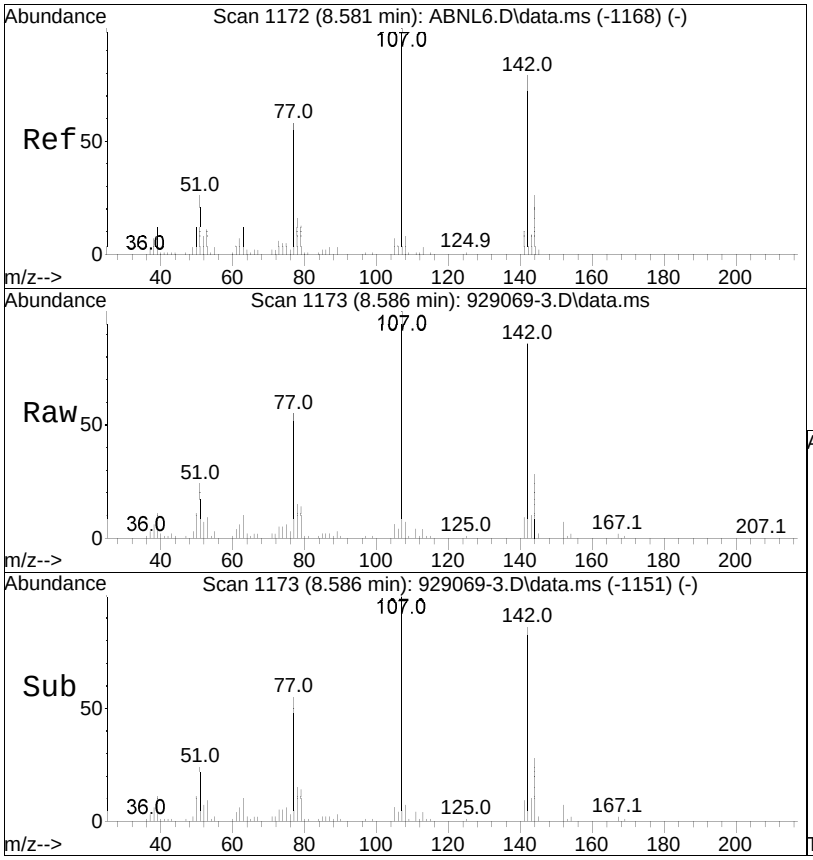


#37
4-Chloroaniline
Concen: 3.77 ug/ml
RT: 8.057 min Scan# 1083
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion: 65 Resp: 23568

Ion	Ratio	Lower	Upper
65	100		
127	231.7	237.6	356.4#
129	74.7	76.3	114.5#

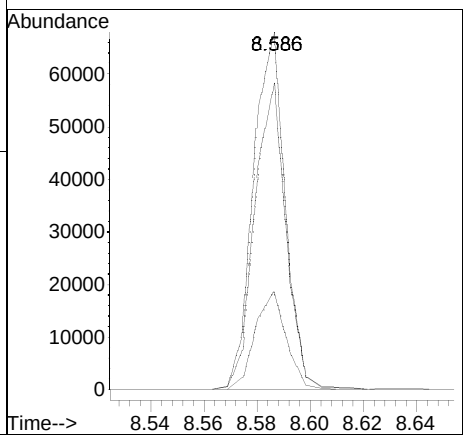


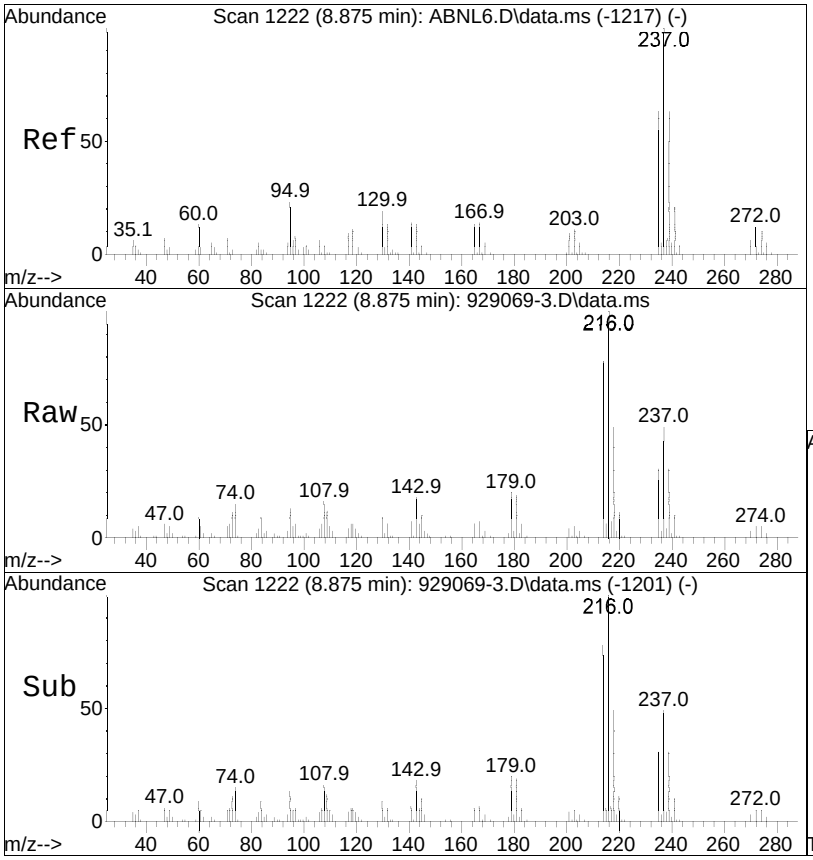


#39
p-Chloro-m-cresol
Concen: 4.13 ug/ml
RT: 8.586 min Scan# 1173
Delta R.T. 0.006 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:107 Resp: 56087

Ion	Ratio	Lower	Upper
107	100		
144	26.9	20.9	31.3
142	83.8	66.1	99.1

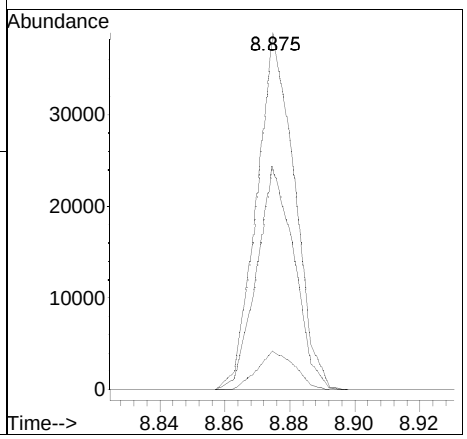


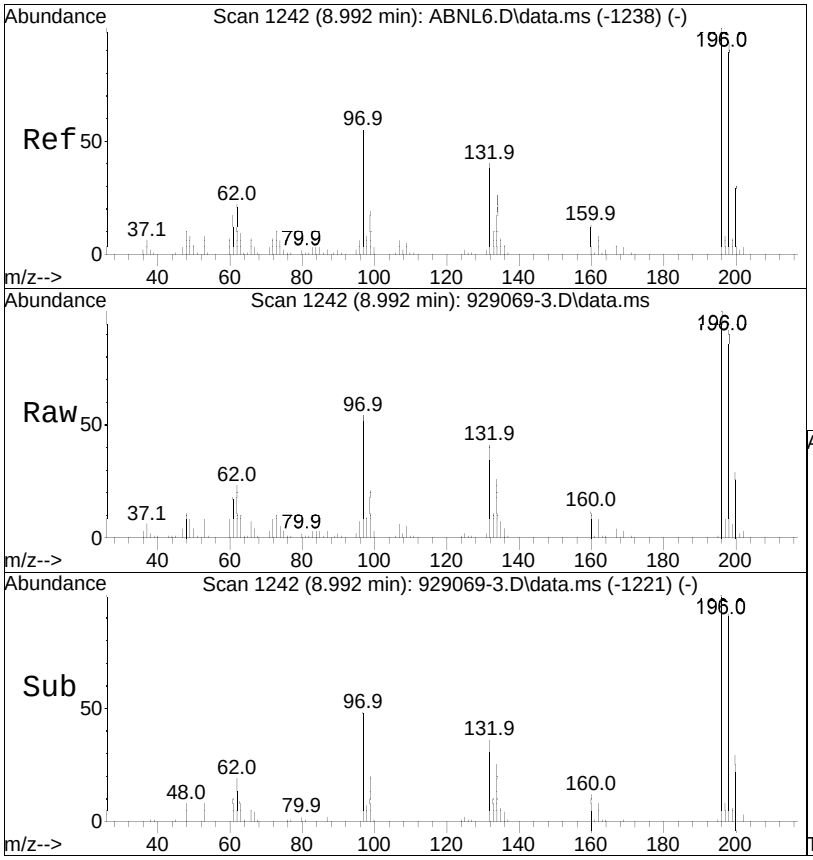


#42
Hexachlorocyclopentadiene
Concen: 3.06 ug/ml
RT: 8.875 min Scan# 1222
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:237 Resp: 31313

Ion	Ratio	Lower	Upper
237	100		
235	62.5	49.7	74.5
272	11.0	9.8	14.6

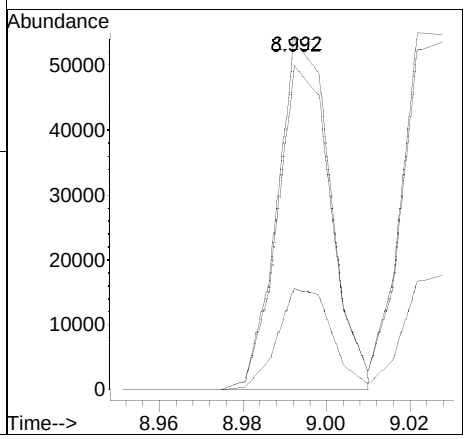


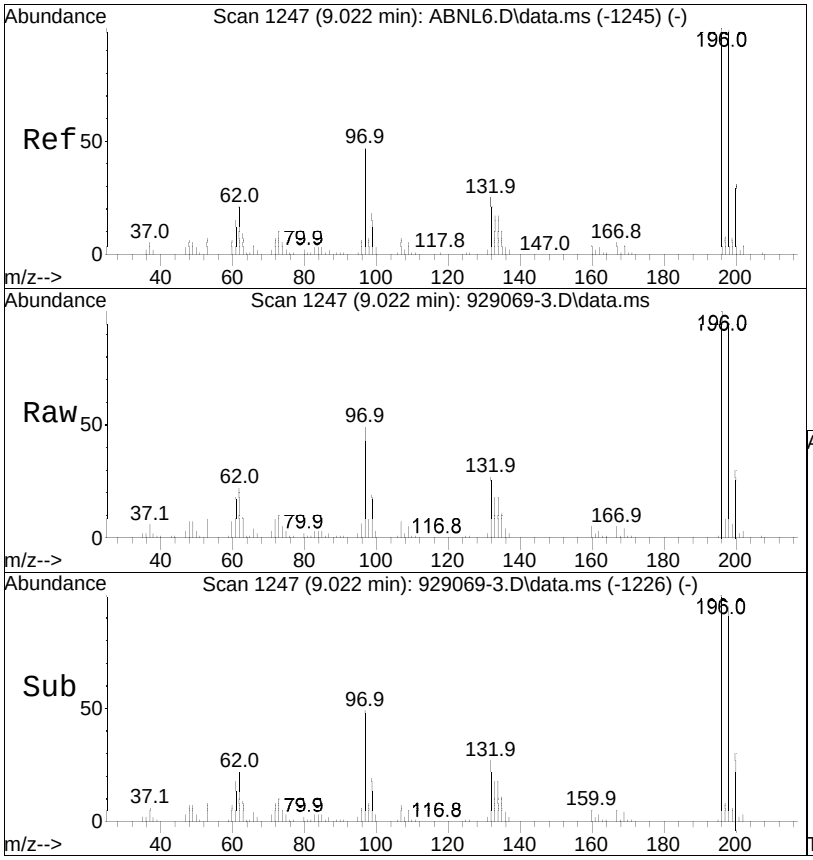


#43
2,4,6-Trichlorophenol
Concen: 4.08 ug/ml
RT: 8.992 min Scan# 1242
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:196 Resp: 48077

Ion	Ratio	Lower	Upper
196	100		
198	93.1	77.5	116.3
200	29.4	23.8	35.6

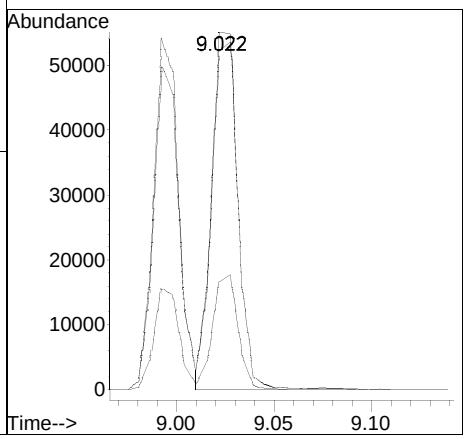


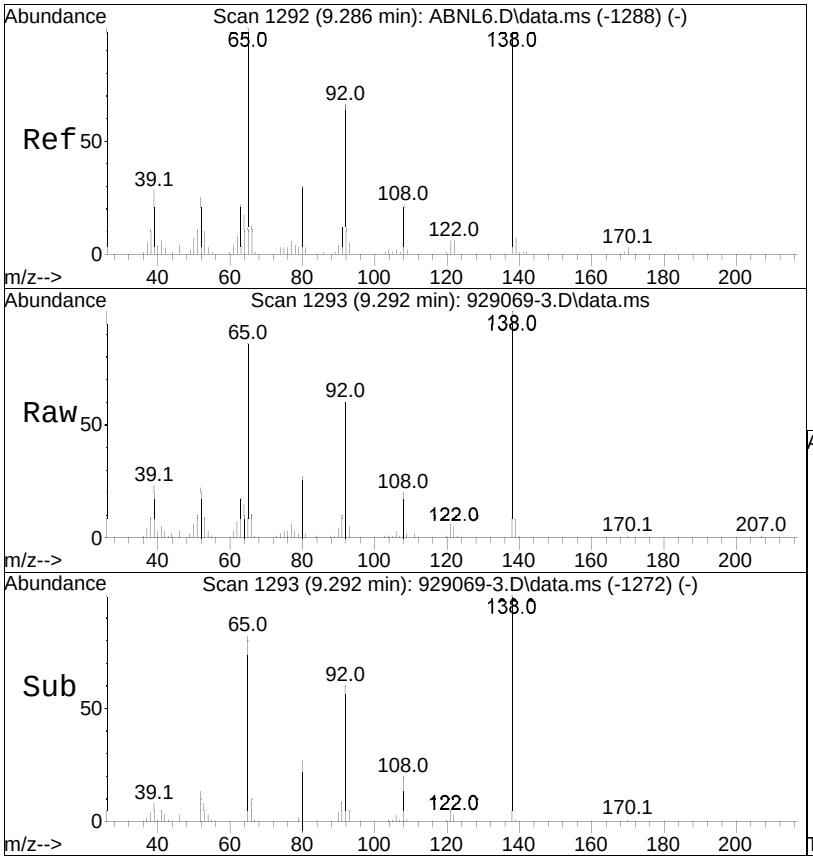


#44
2,4,5-Trichlorophenol
Concen: 4.13 ug/ml
RT: 9.022 min Scan# 1247
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:196 Resp: 51717

Ion	Ratio	Lower	Upper
196	100		
200	30.9	25.4	38.0
198	95.3	78.0	117.0

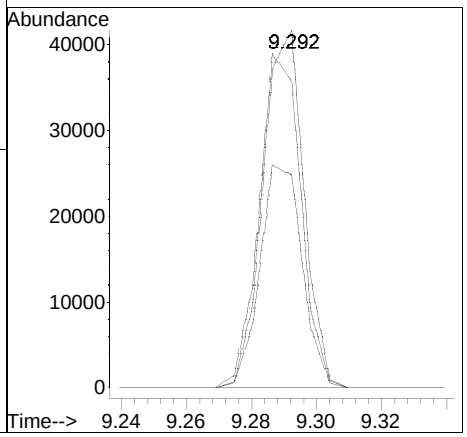


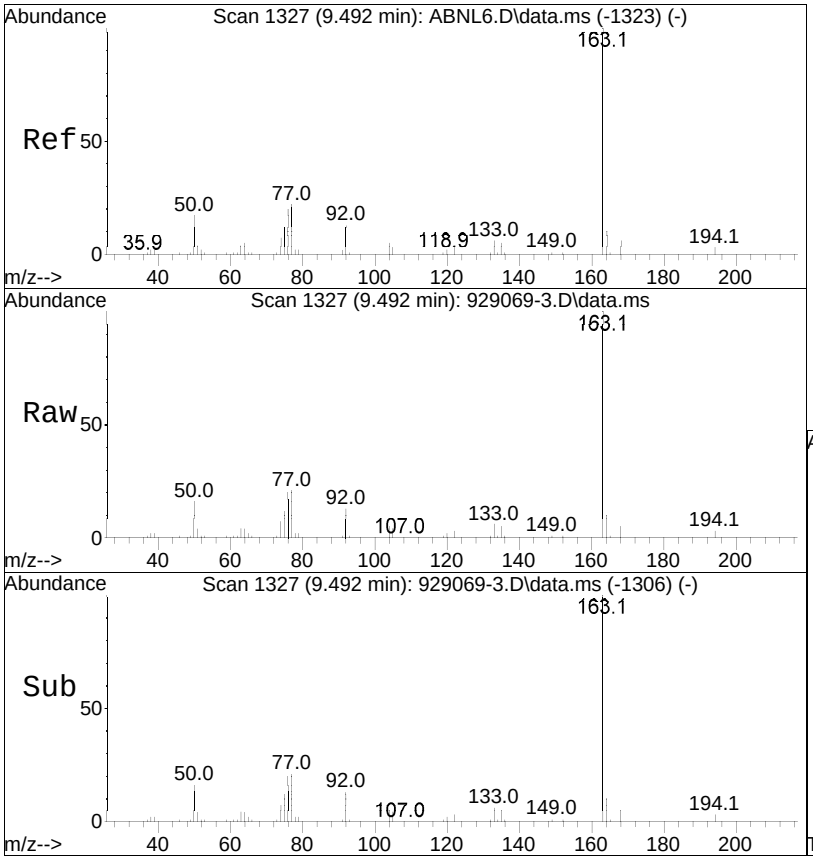


#47
2-Nitroaniline
Concen: 4.21 ug/ml
RT: 9.292 min Scan# 1293
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:138 Resp: 36296

Ion	Ratio	Lower	Upper
138	100		
92	64.4	53.5	80.3
65	95.0	86.3	129.5

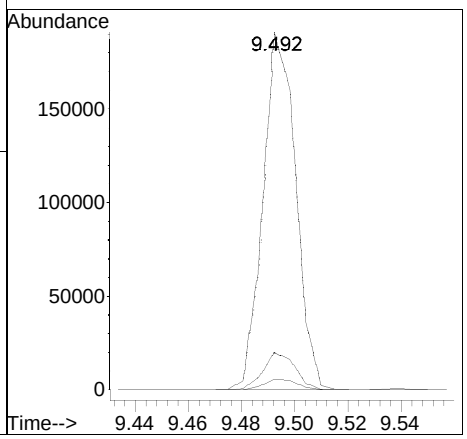


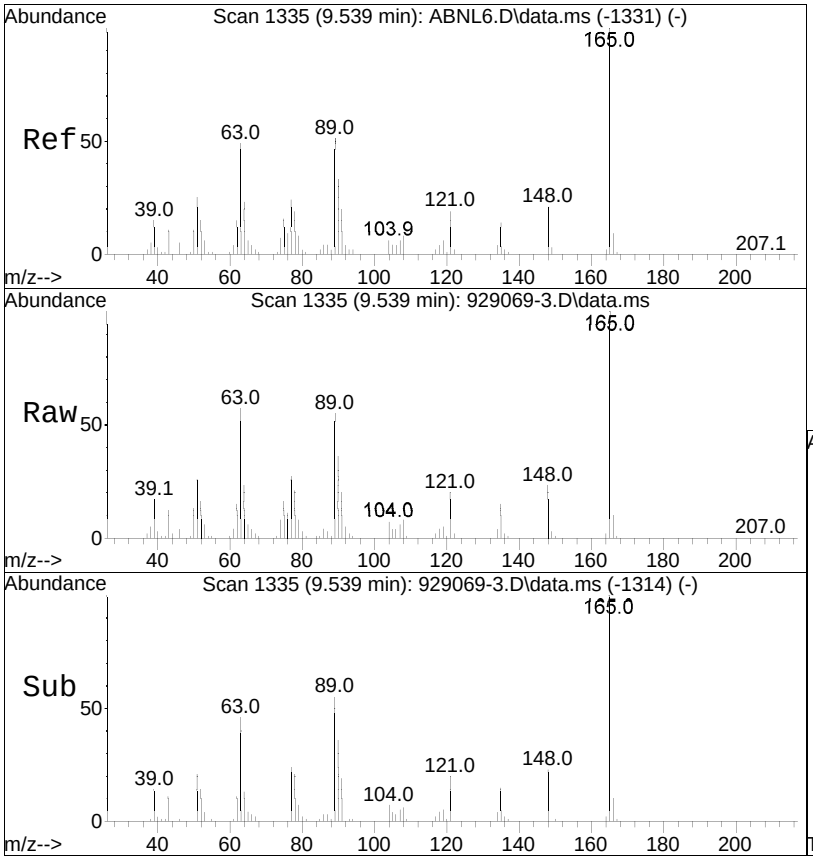


#50
Dimethyl phthalate
Concen: 3.85 ug/ml
RT: 9.492 min Scan# 1327
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:163 Resp: 161007

Ion	Ratio	Lower	Upper
163	100		
194	3.0	3.5	5.3#
164	10.4	7.9	11.9

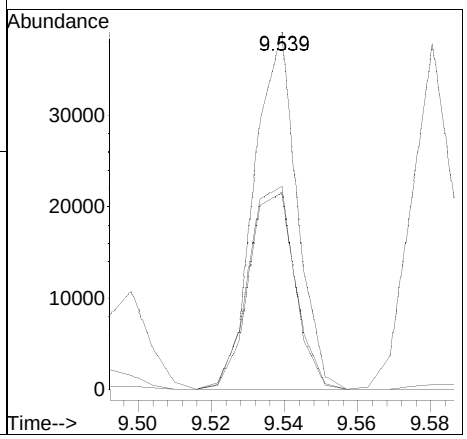


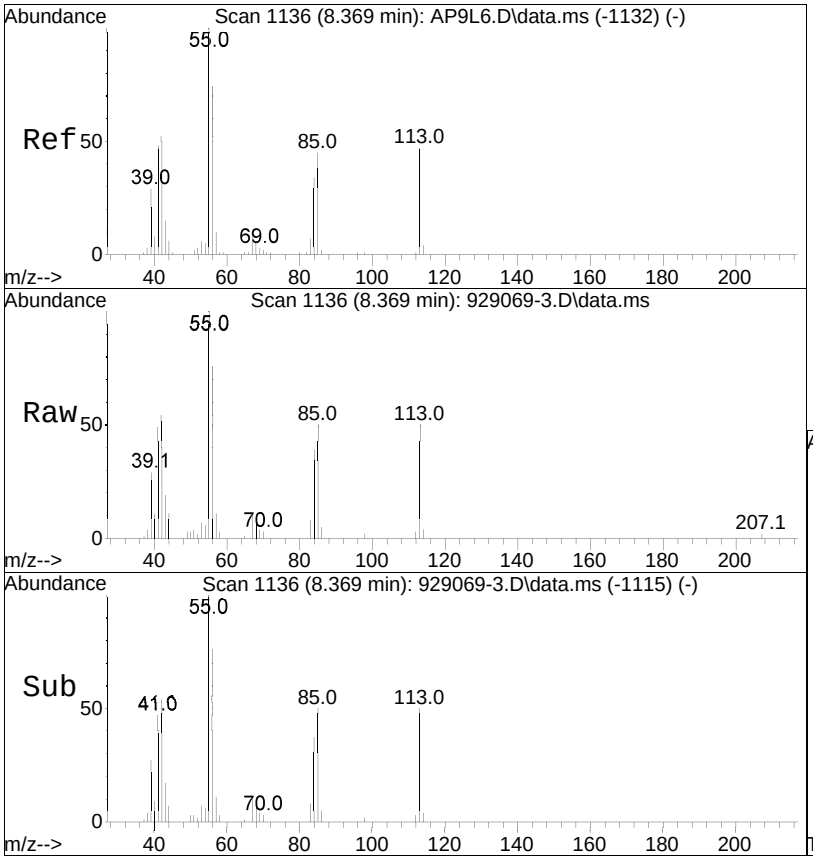


#52
2,6-Dinitrotoluene
Concen: 4.20 ug/ml
RT: 9.539 min Scan# 1335
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:165 Resp: 31917

Ion	Ratio	Lower	Upper
165	100		
89	60.0	54.2	81.2
63	61.9	64.2	96.2#

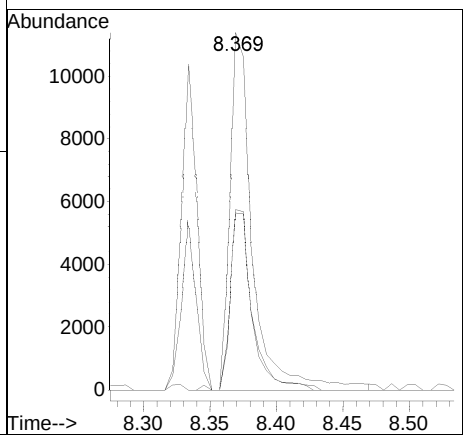


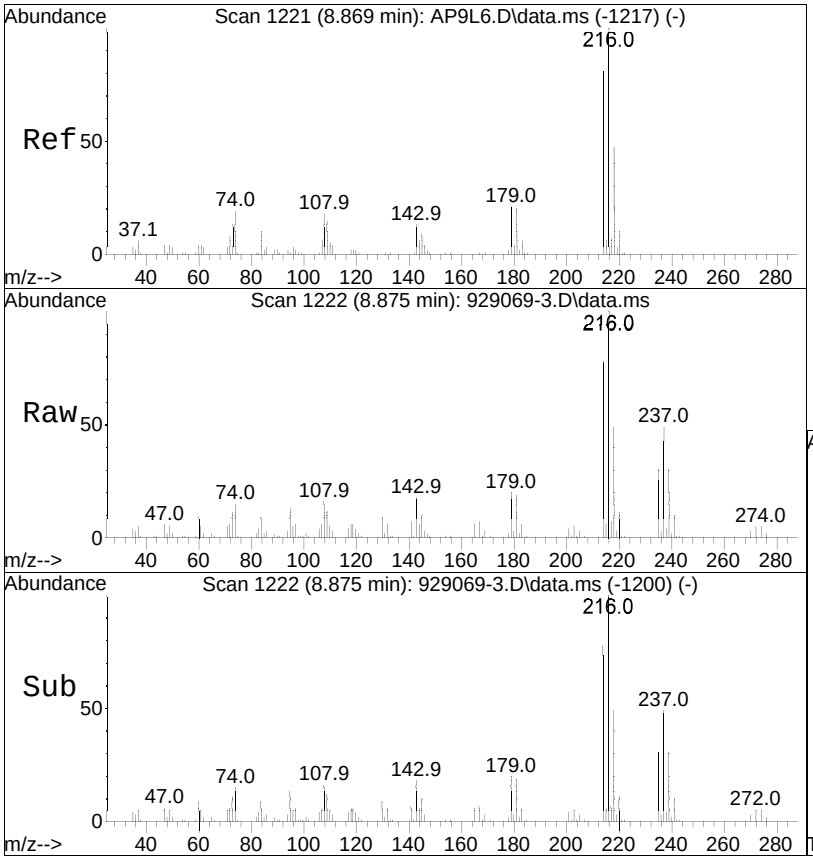


#59
Caprolactam
Concen: 1.83 ug/ml
RT: 8.369 min Scan# 1136
Delta R.T. 0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion: 55 Resp: 13567

Ion	Ratio	Lower	Upper
55	100		
85	47.1	19.8	29.6#
113	48.6	29.6	44.4#

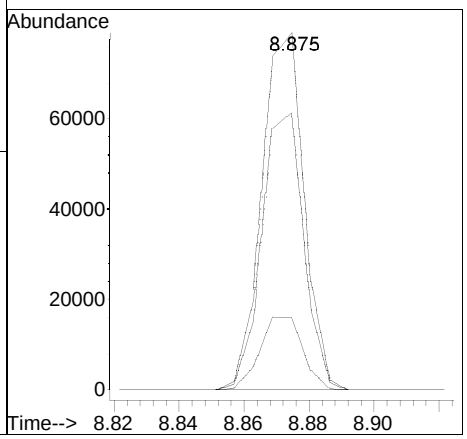


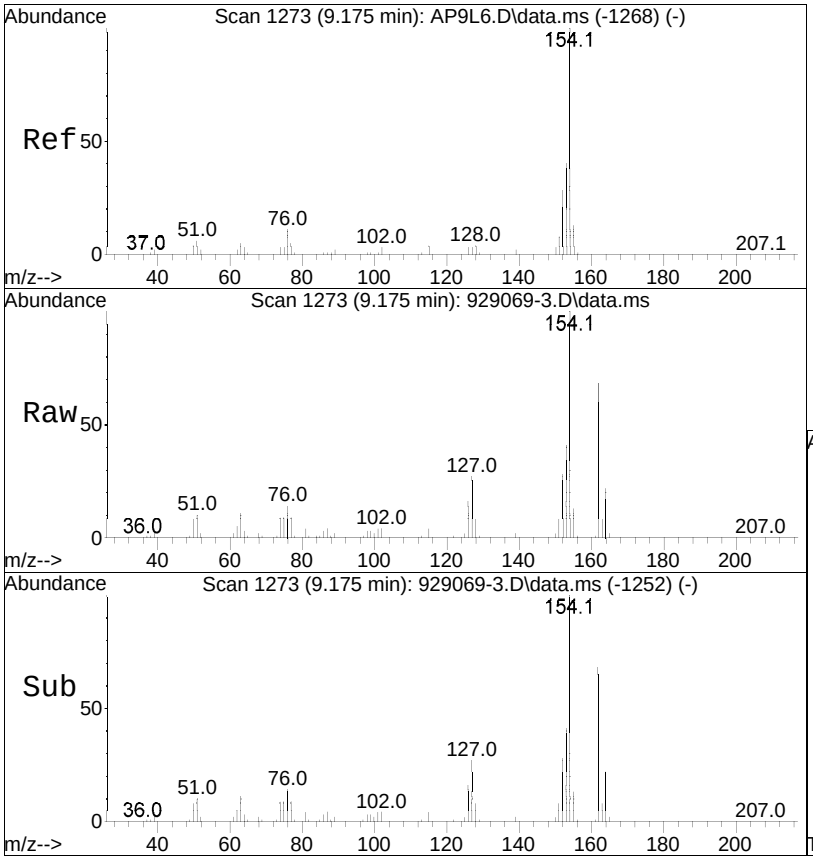


#60
1,2,4,5-Tetrachlorobenzene
Concen: 3.54 ug/ml
RT: 8.875 min Scan# 1222
Delta R.T. 0.006 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:216 Resp: 70915

Ion	Ratio	Lower	Upper
216	100		
214	77.2	63.7	95.5
179	21.0	19.0	28.6

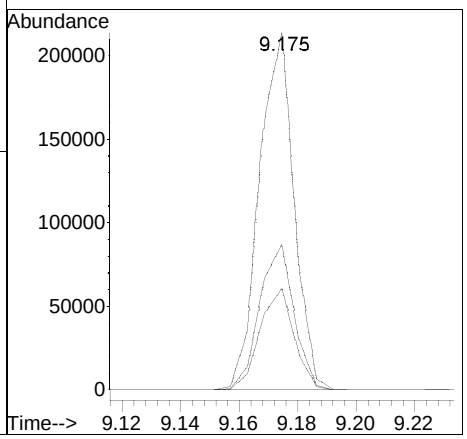


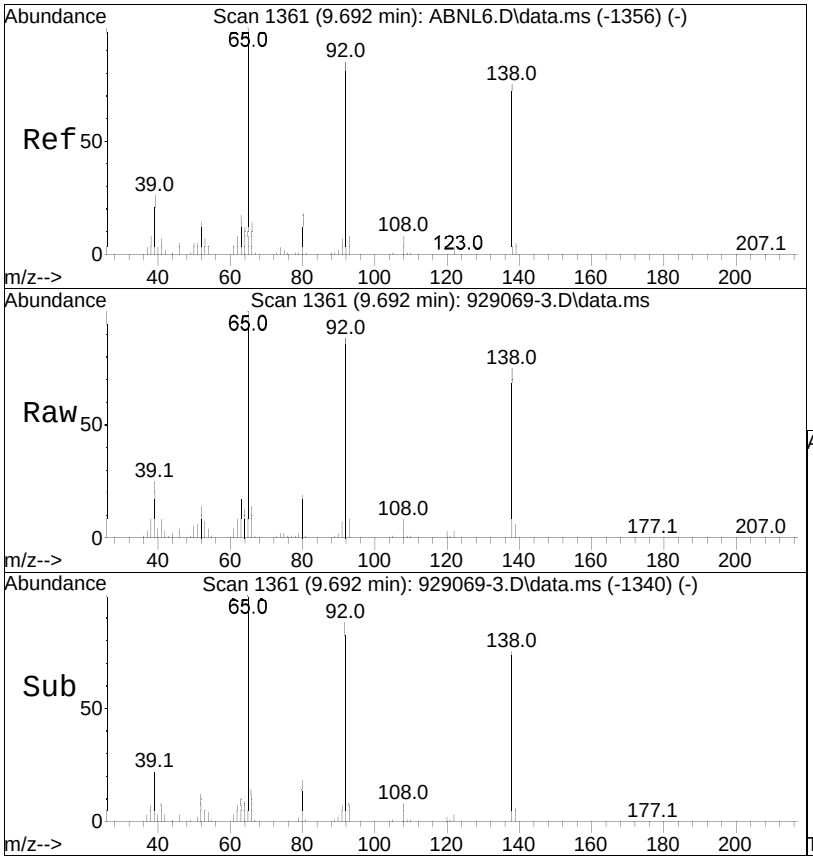


#61
Biphenyl
Concen: 3.77 ug/ml
RT: 9.175 min Scan# 1273
Delta R.T. 0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:154 Resp: 174546

Ion	Ratio	Lower	Upper
154	100		
153	40.6	32.3	48.5
152	28.3	22.5	33.7

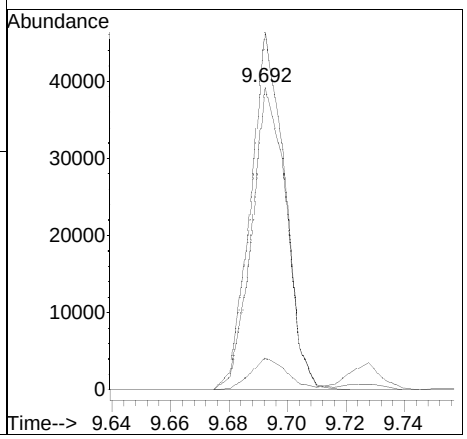


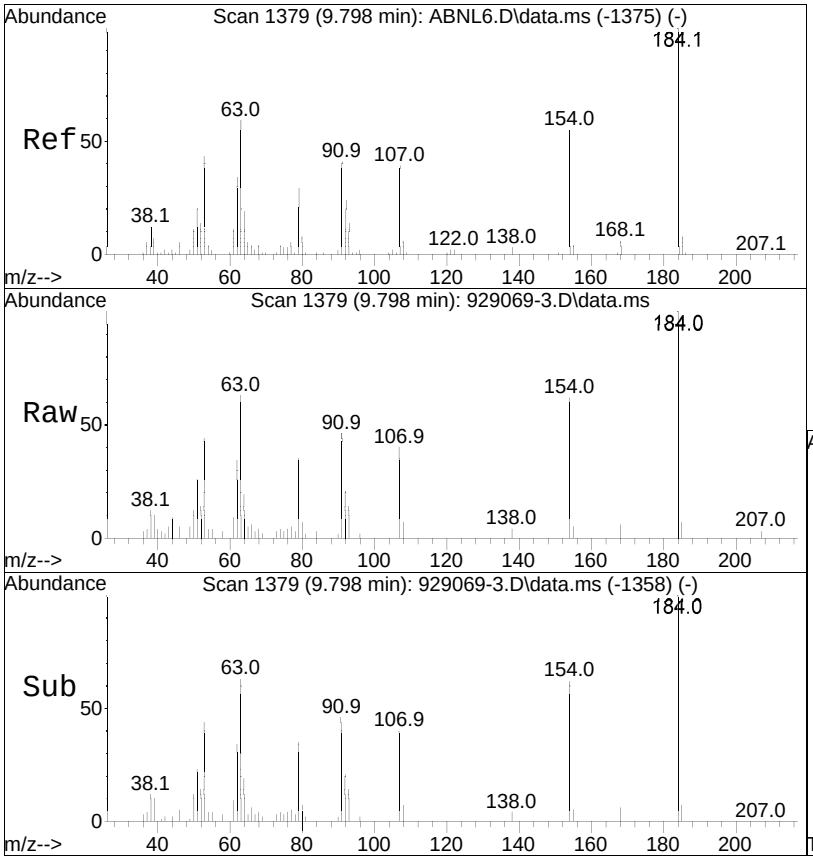


#63
3-Nitroaniline
Concen: 4.09 ug/ml
RT: 9.692 min Scan# 1361
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:138 Resp: 32080

Ion	Ratio	Lower	Upper
138	100		
92	116.3	93.4	140.2
108	11.1	9.5	14.3

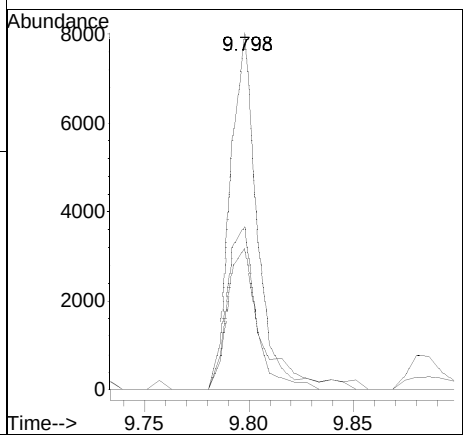


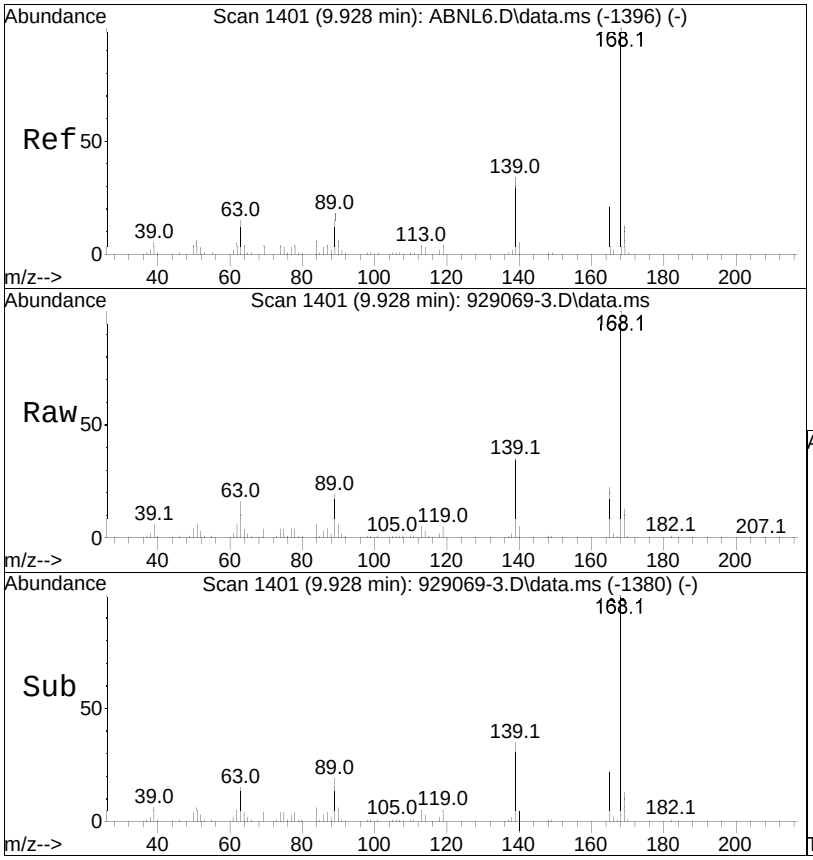


#65
2,4-Dinitrophenol
Concen: 2.36 ug/ml
RT: 9.798 min Scan# 1379
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:184 Resp: 7290

Ion	Ratio	Lower	Upper
184	100		
107	43.0	37.7	56.5
91	53.7	46.3	69.5

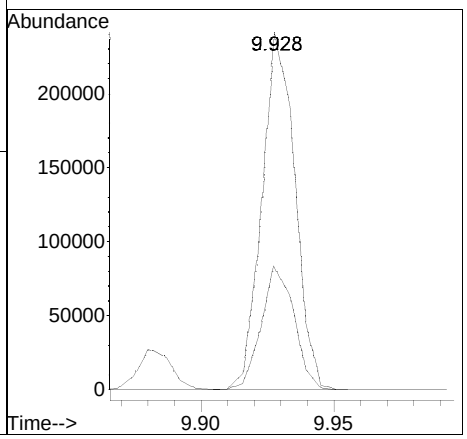


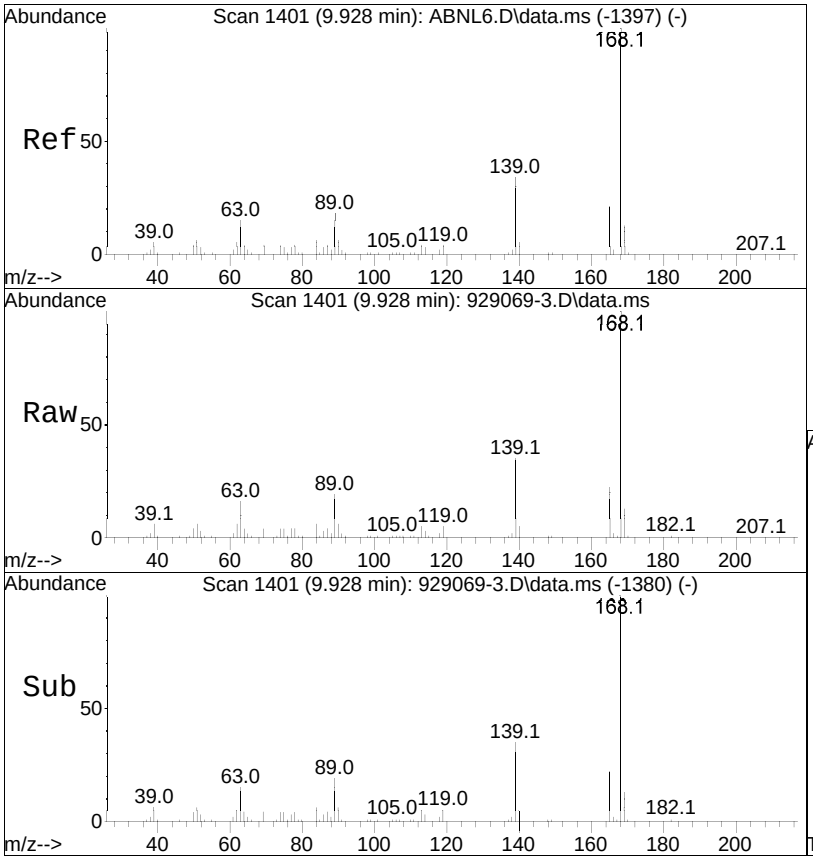


#66
Dibenzofuran
Concen: 3.87 ug/ml
RT: 9.928 min Scan# 1401
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:168 Resp: 205781

Ion	Ratio	Lower	Upper
168	100		
139	34.7	31.4	47.2

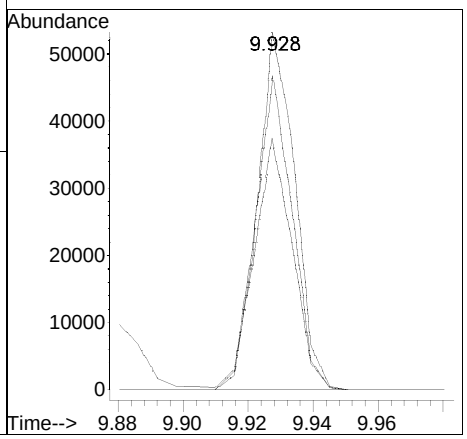


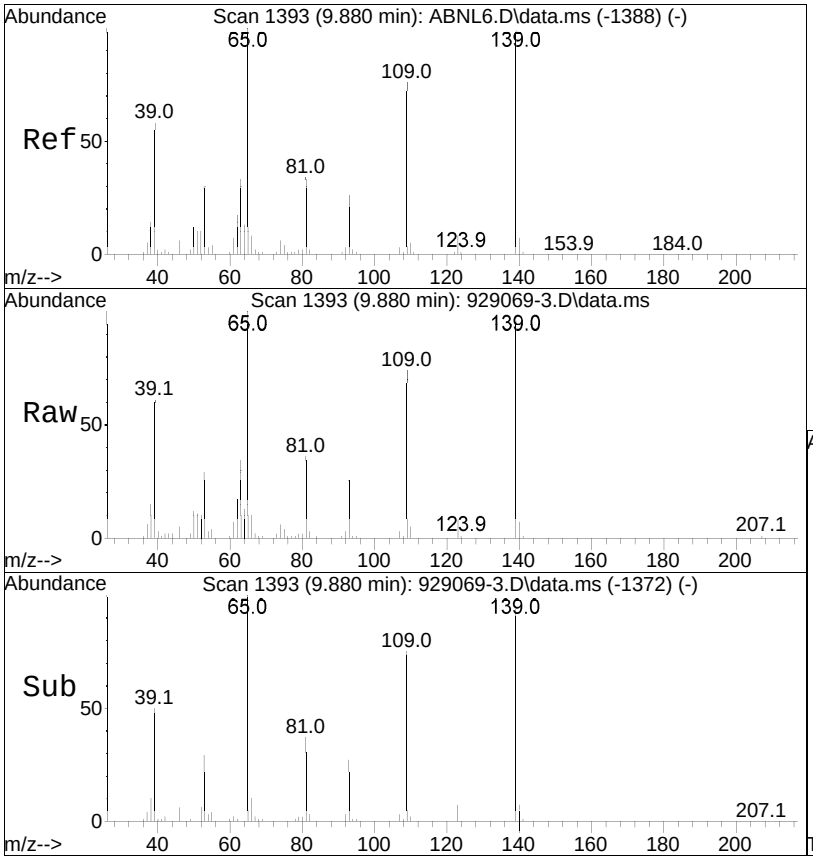


#67
2,4-Dinitrotoluene
Concen: 3.72 ug/ml
RT: 9.928 min Scan# 1401
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:165 Resp: 42219

Ion	Ratio	Lower	Upper
165	100		
89	86.1	72.0	108.0
63	71.6	52.7	79.1

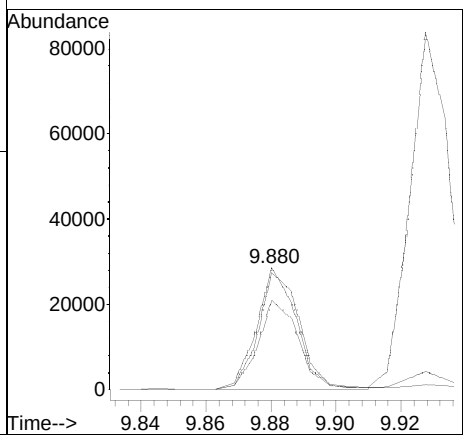


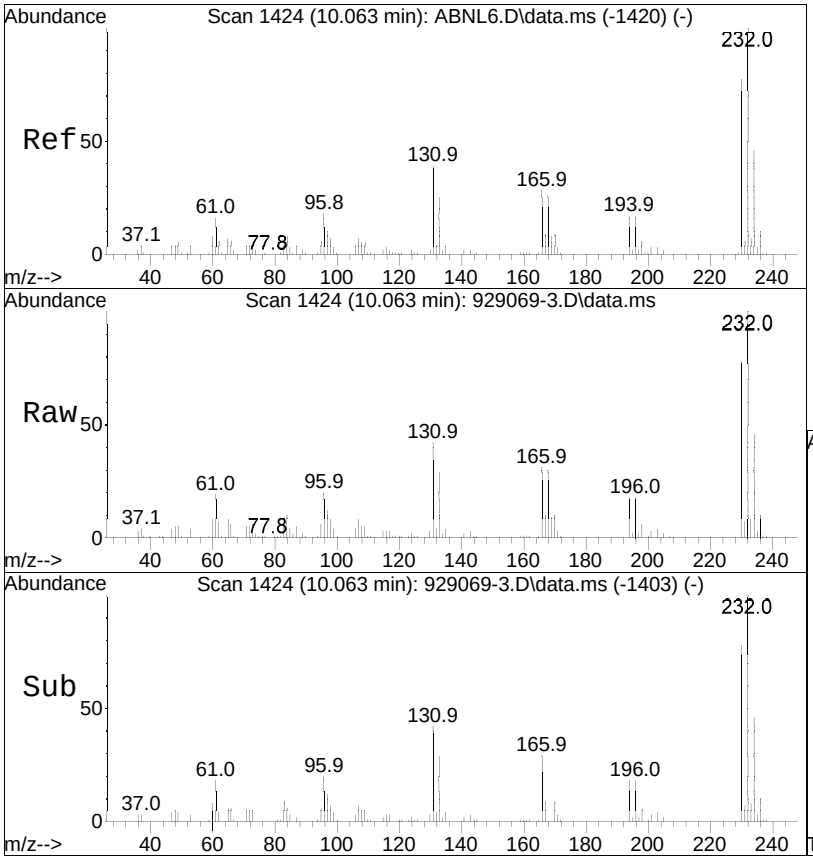


#68
4-Nitrophenol
Concen: 3.65 ug/ml
RT: 9.880 min Scan# 1393
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion: 65 Resp: 24447

Ion	Ratio	Lower	Upper
65	100		
109	75.1	47.4	71.2#
139	98.4	76.6	115.0

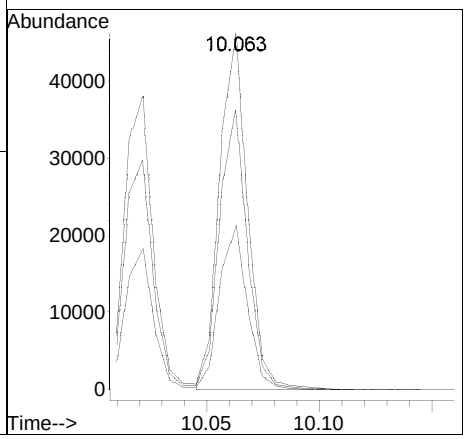


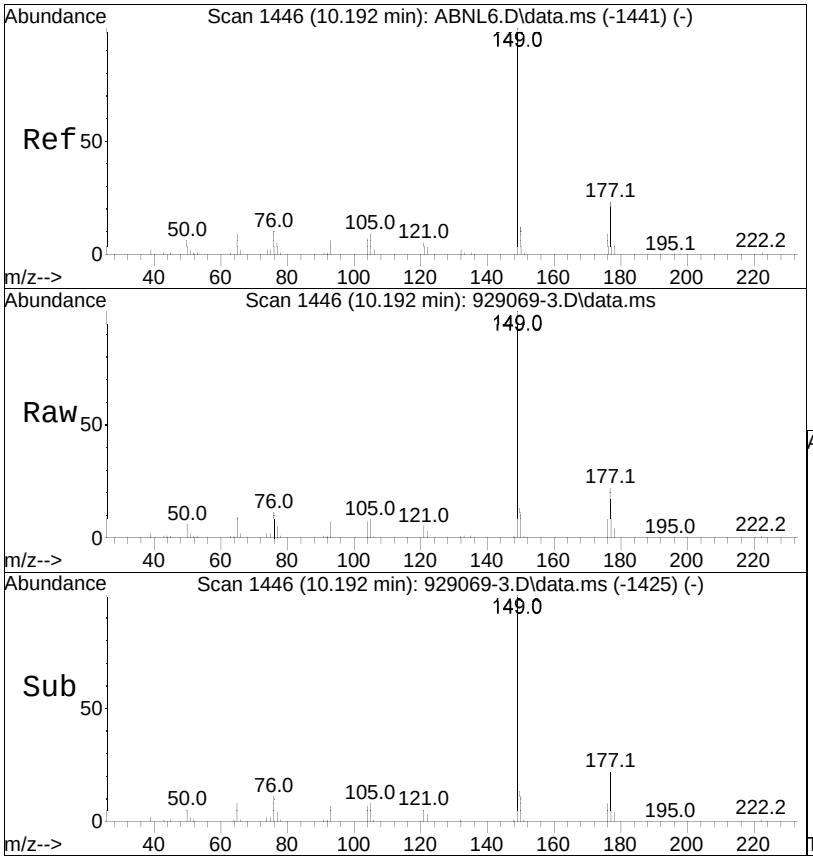


#70
2,3,4,6-Tetrachlorophenol
Concen: 4.26 ug/ml
RT: 10.063 min Scan# 1424
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:232 Resp: 40392

Ion	Ratio	Lower	Upper
232	100		
230	78.3	61.8	92.8
234	46.1	36.2	54.2

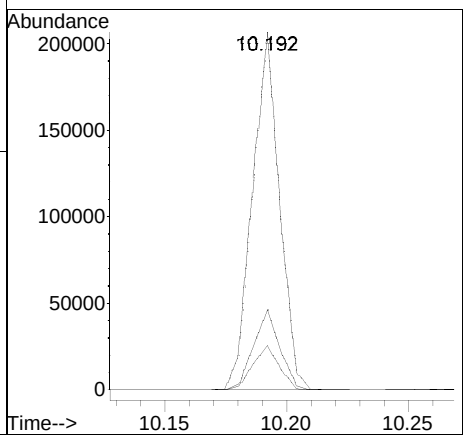


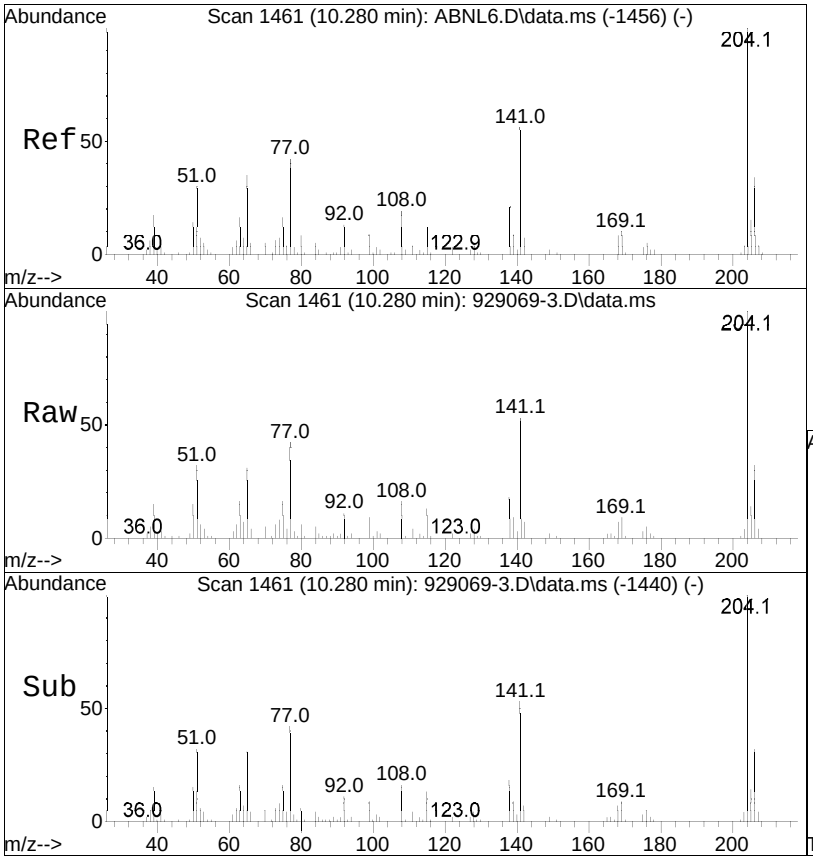


#71
Diethyl phthalate
Concen: 3.99 ug/ml
RT: 10.192 min Scan# 1446
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:149 Resp: 157177

Ion	Ratio	Lower	Upper
149	100		
177	21.9	16.1	24.1
150	12.3	9.4	14.2

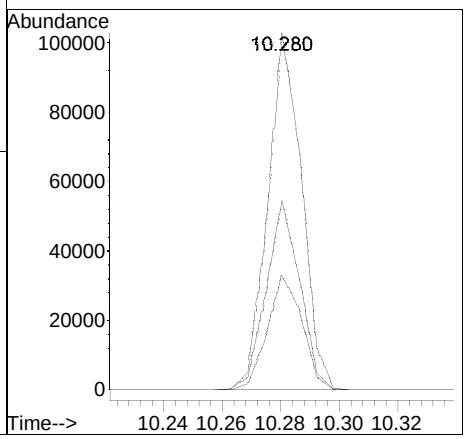


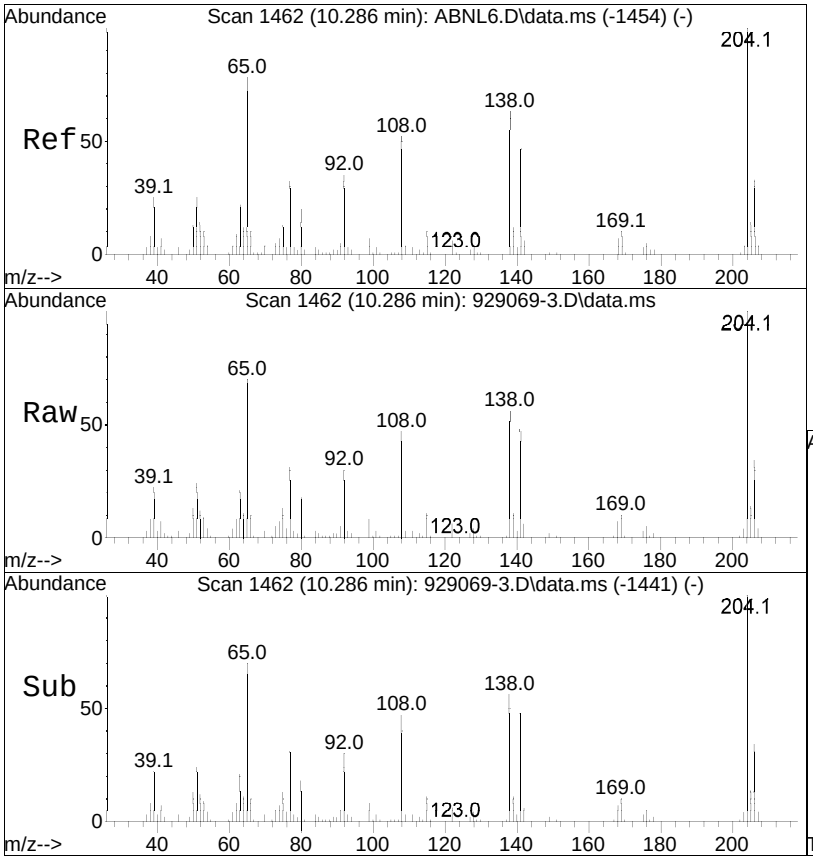


#73
4-Chlorophenyl phenyl ether
Concen: 4.01 ug/ml
RT: 10.280 min Scan# 1461
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:204 Resp: 81413

Ion	Ratio	Lower	Upper
204	100		
206	33.0	25.8	38.6
141	52.8	53.6	80.4#

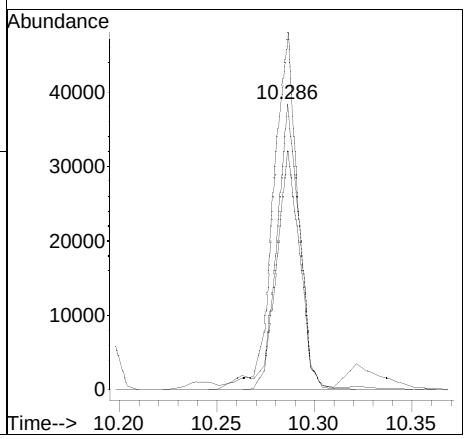


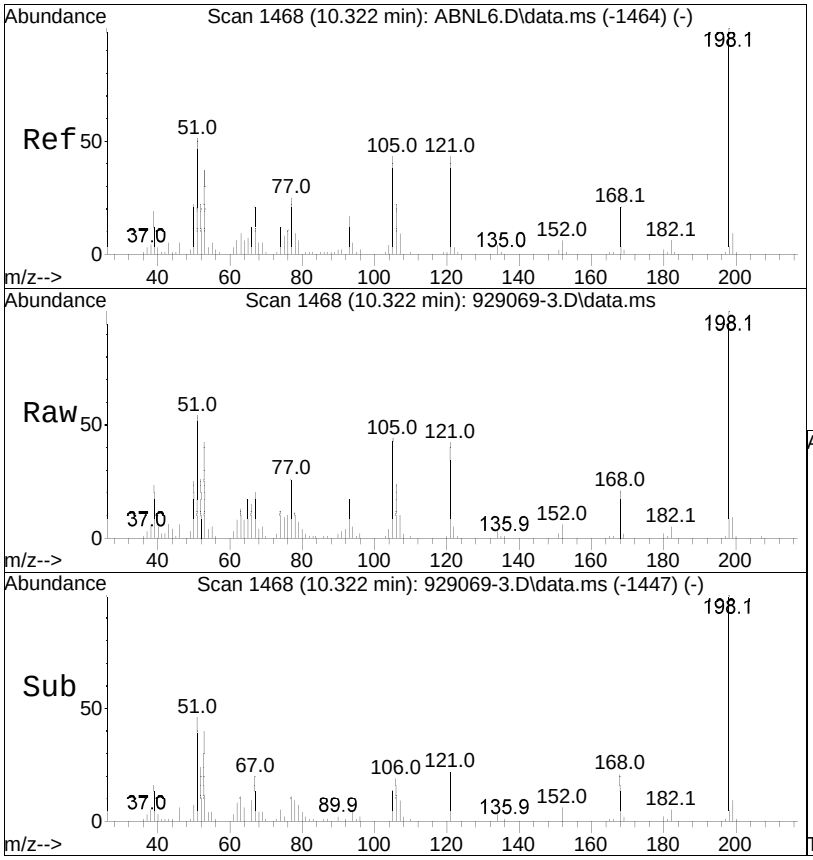


#74
4-Nitroaniline
Concen: 4.07 ug/ml
RT: 10.286 min Scan# 1462
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:138 Resp: 32266

Ion	Ratio	Lower	Upper
138	100		
108	81.6	52.1	78.1#
65	129.1	115.0	172.6

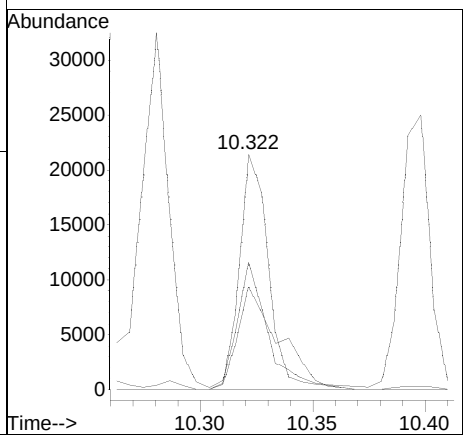


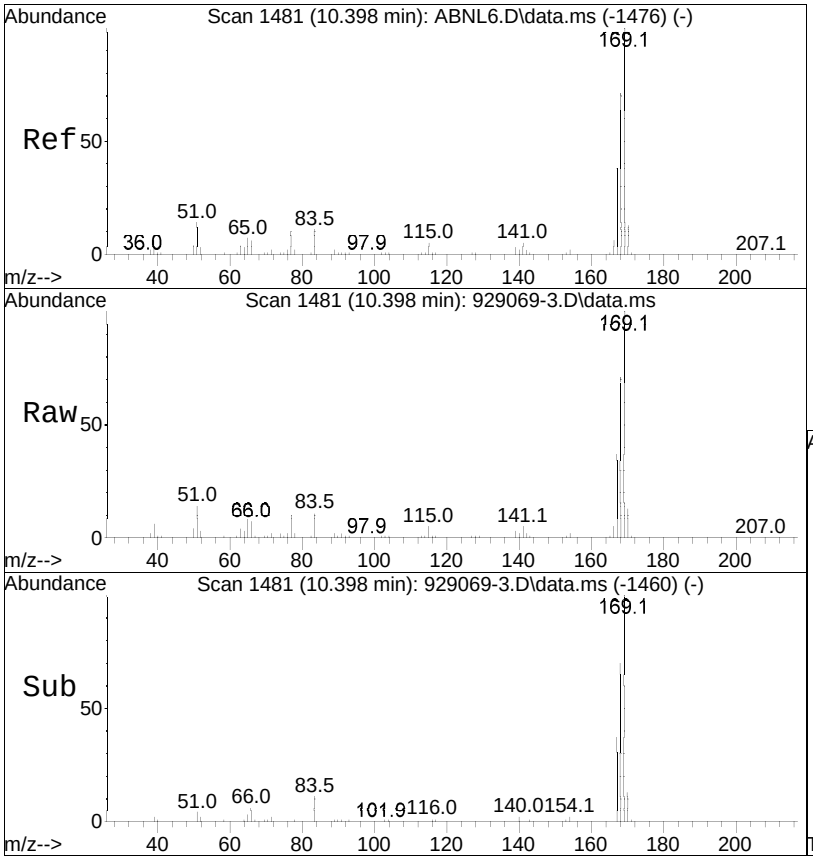


#75
4,6-Dinitro-o-cresol
Concen: 3.31 ug/ml
RT: 10.322 min Scan# 1468
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:198 Resp: 19249

Ion	Ratio	Lower	Upper
198	100		
51	55.5	76.0	114.0#
105	62.0	45.6	68.4

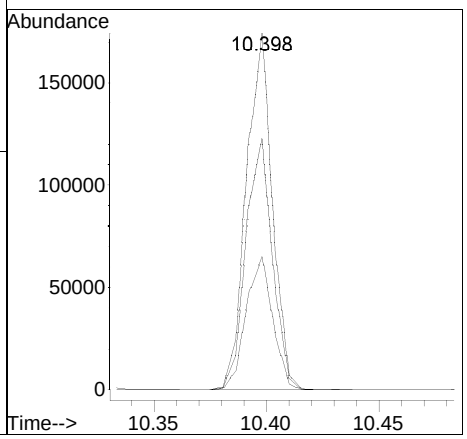


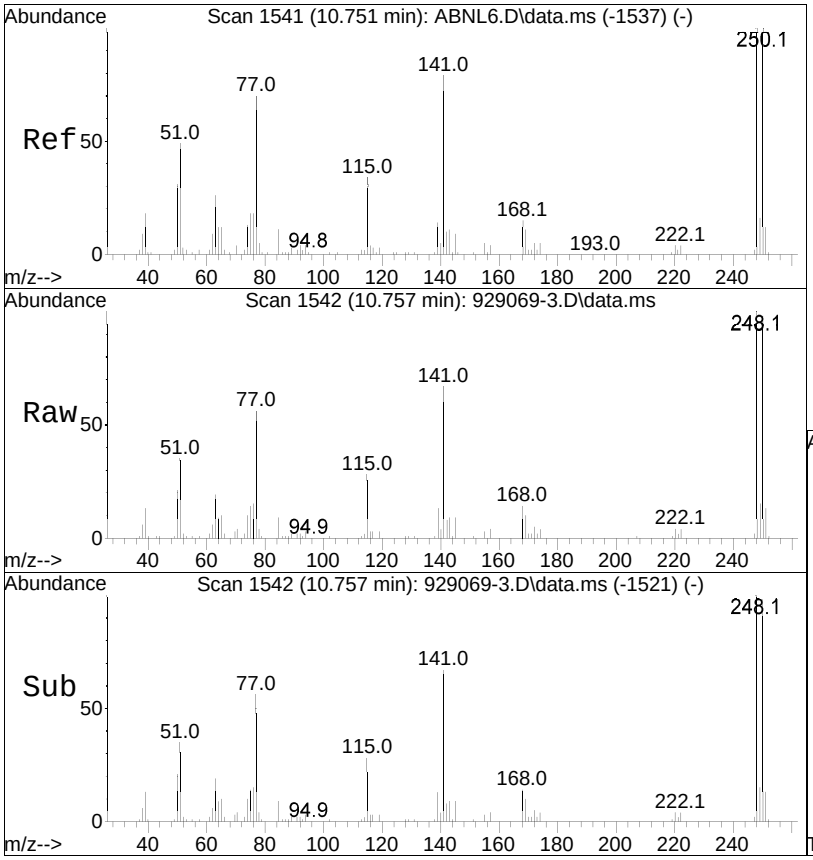


#76
NDPA/DPA
Concen: 4.08 ug/ml
RT: 10.398 min Scan# 1481
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:169 Resp: 139492

Ion	Ratio	Lower	Upper
169	100		
168	71.8	54.0	81.0
167	38.6	28.6	42.8

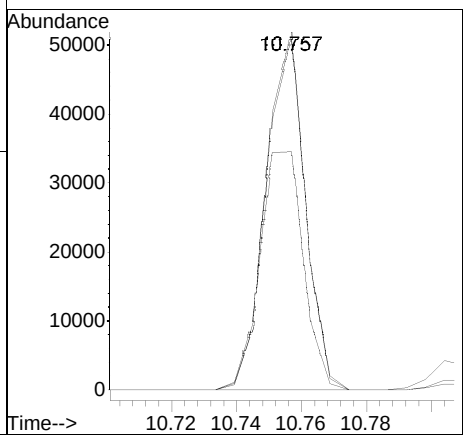


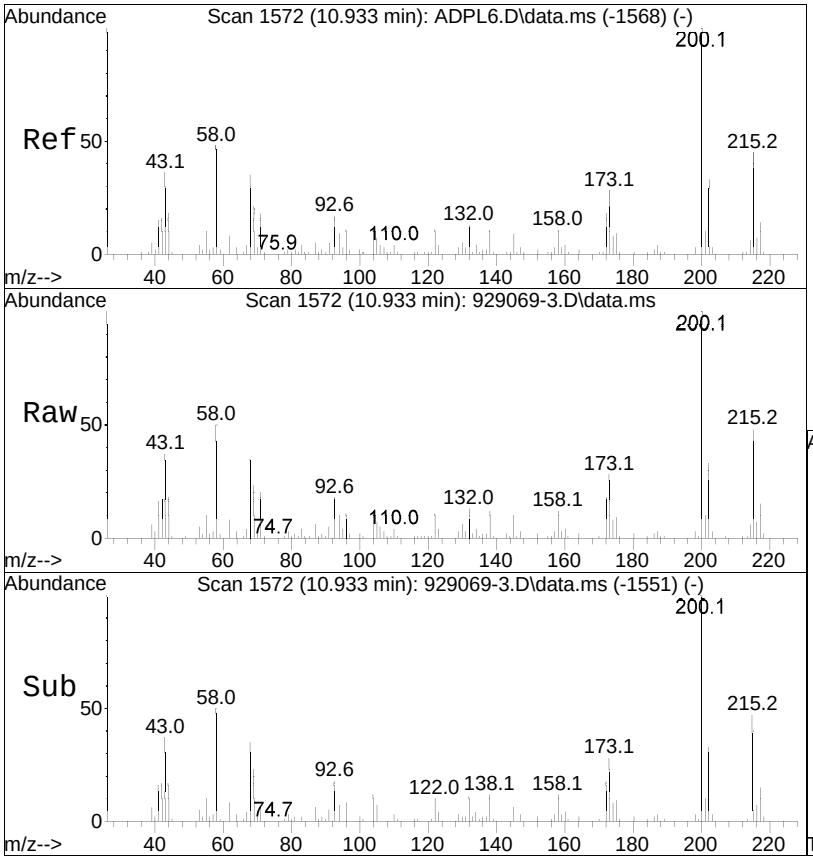


#79
4-Bromophenyl phenyl ether
Concen: 3.80 ug/ml
RT: 10.757 min Scan# 1542
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:248 Resp: 43202

Ion	Ratio	Lower	Upper
248	100		
141	74.1	76.6	114.8#
250	97.8	77.3	115.9

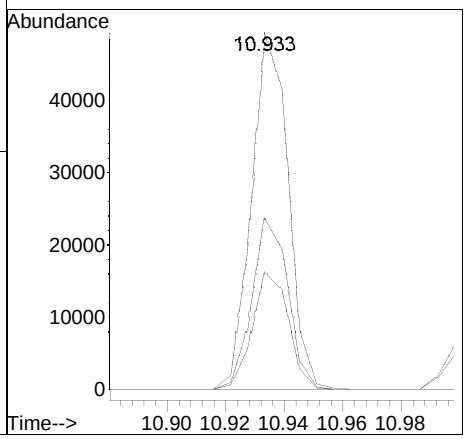


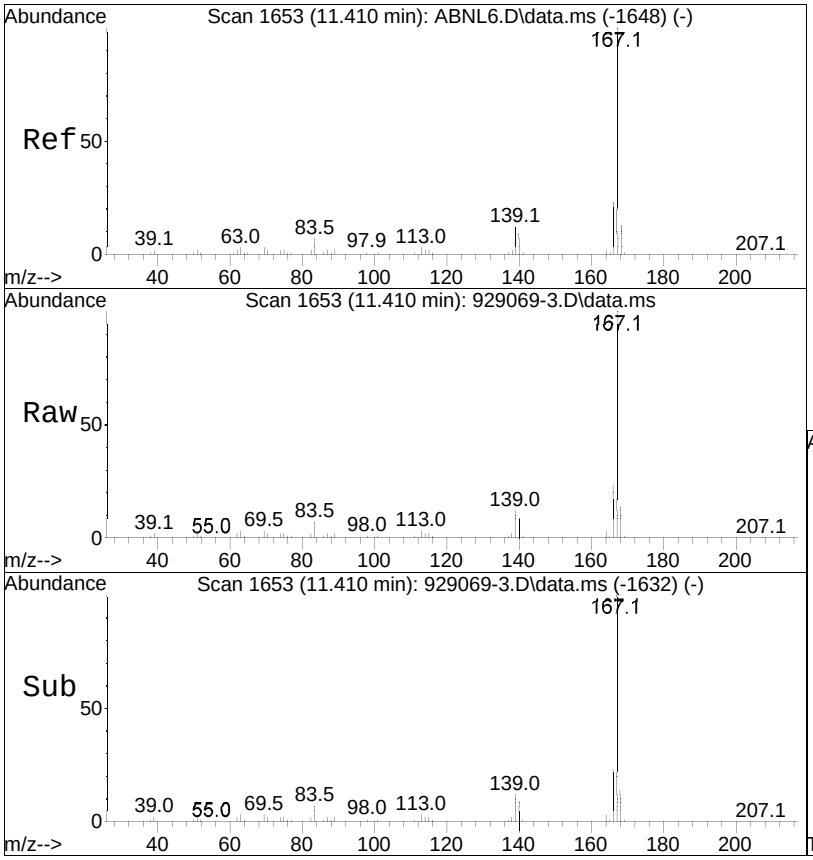


#86
Atrazine
Concen: 4.06 ug/ml
RT: 10.933 min Scan# 1572
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:200 Resp: 42581

Ion	Ratio	Lower	Upper
200	100		
202	32.8	25.8	38.6
215	47.4	40.2	60.4

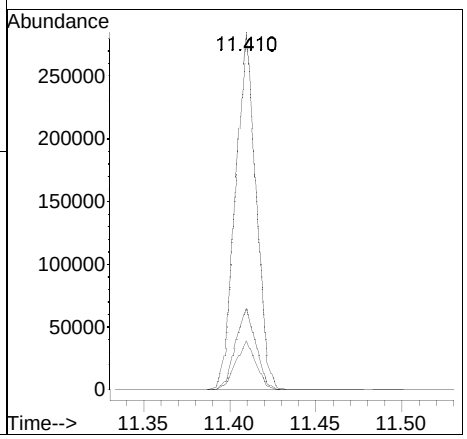


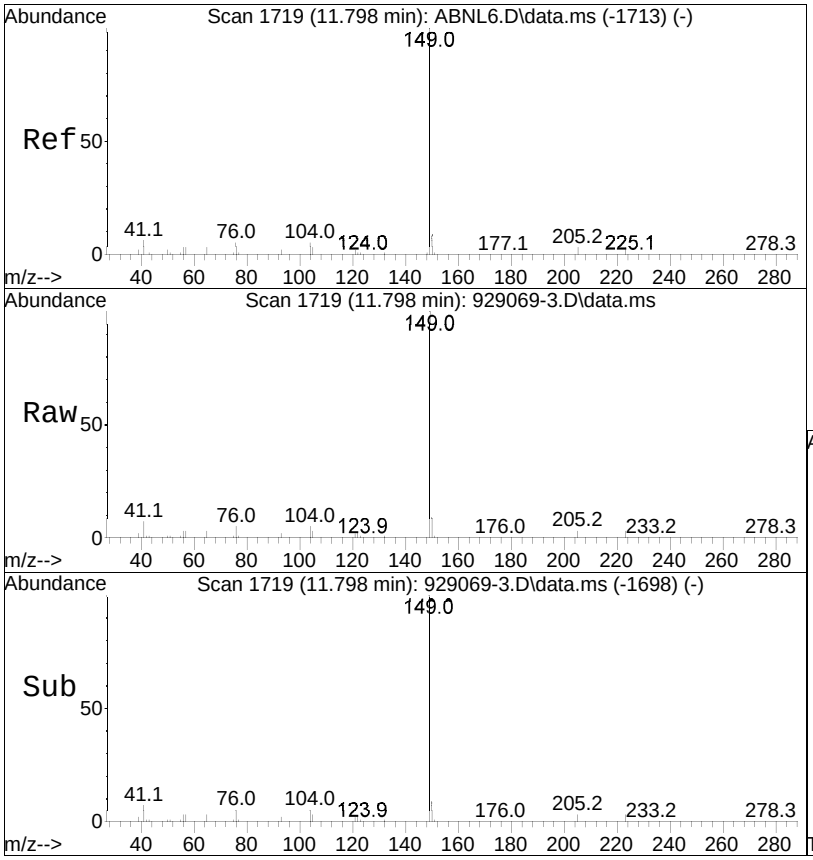


#90
Carbazole
Concen: 4.21 ug/ml
RT: 11.410 min Scan# 1653
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:167 Resp: 234748

Ion	Ratio	Lower	Upper
167	100		
168	13.7	10.6	15.8
166	22.8	17.4	26.0

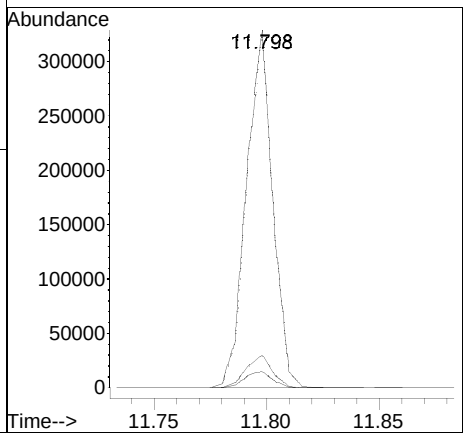


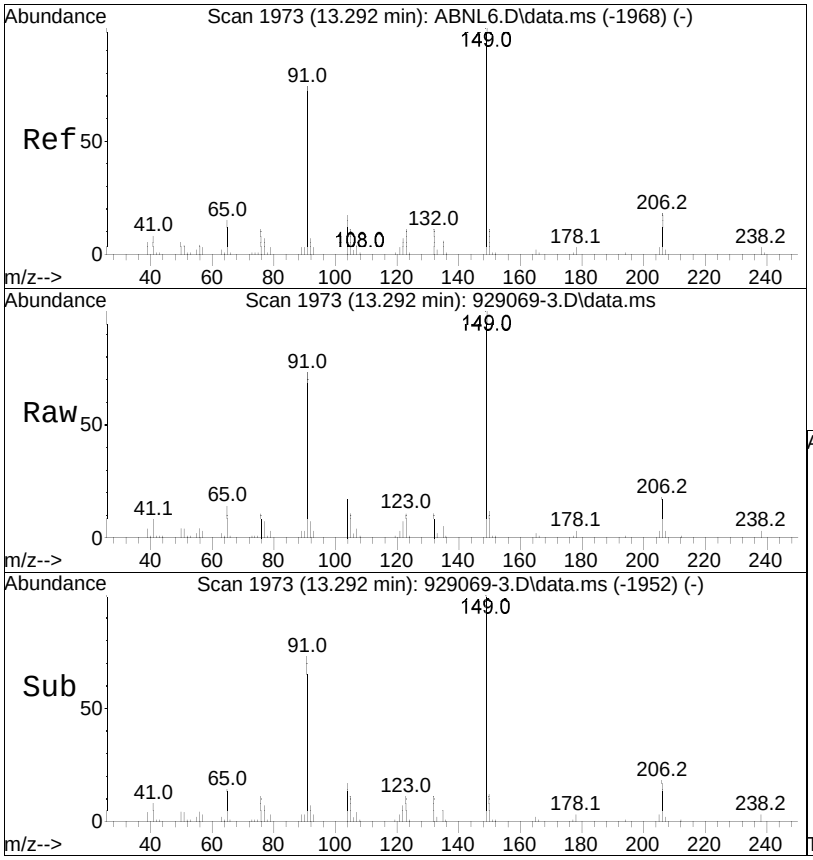


#91
Di-n-butylphthalate
Concen: 4.01 ug/ml
RT: 11.798 min Scan# 1719
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:149 Resp: 261997

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.0	10.6
104	4.9	4.5	6.7

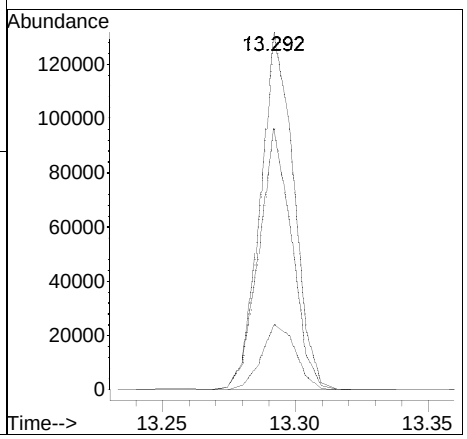


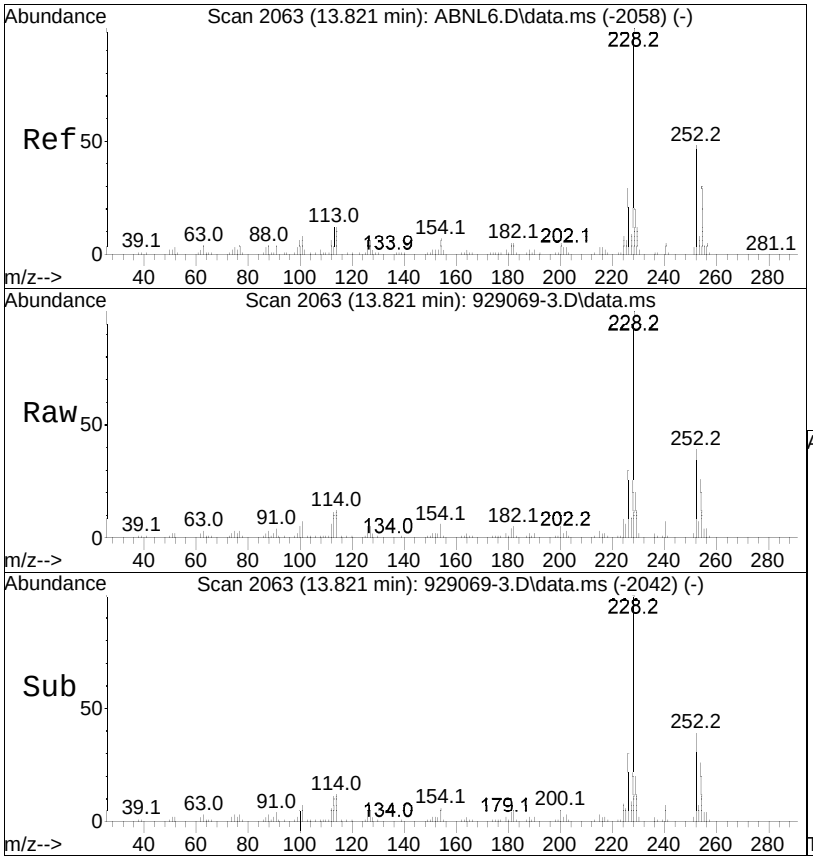


#96
Butyl benzyl phthalate
Concen: 3.78 ug/ml
RT: 13.292 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:149 Resp: 113913

Ion	Ratio	Lower	Upper
149	100		
91	72.6	63.3	94.9
206	18.8	13.9	20.9

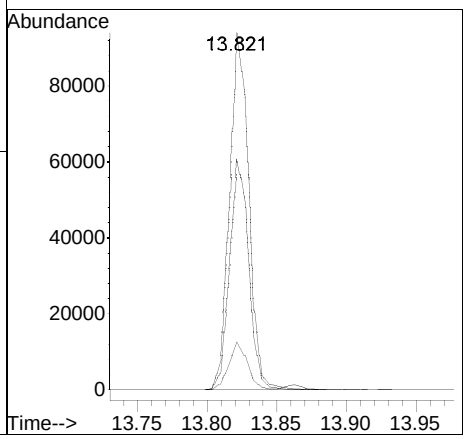


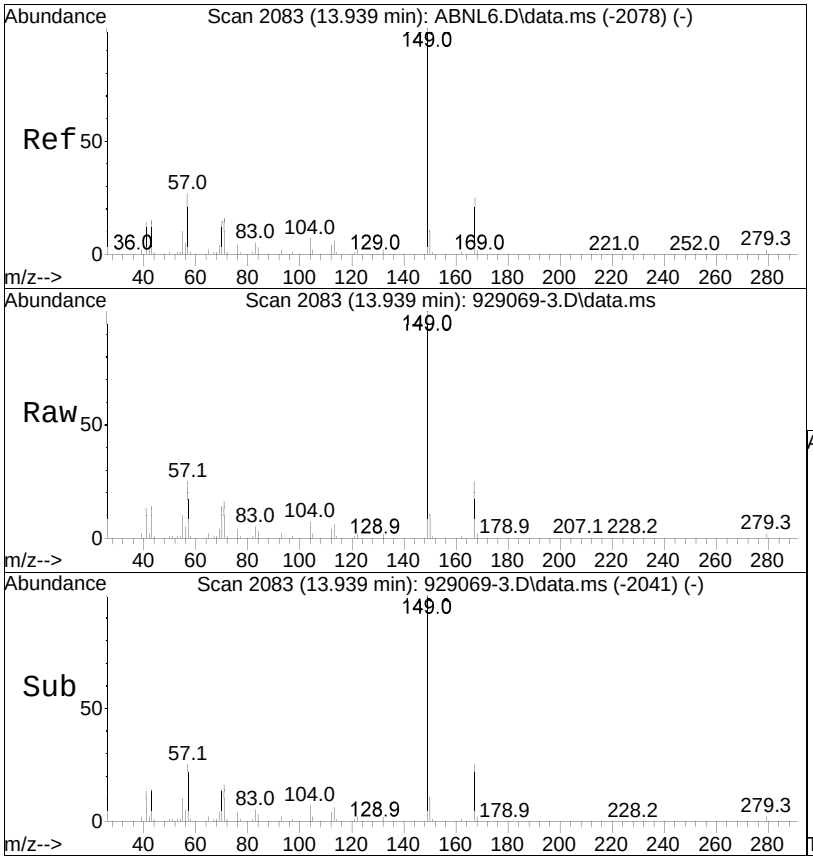


#105
3,3'-Dichlorobenzidine
Concen: 3.94 ug/ml
RT: 13.821 min Scan# 2063
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:252 Resp: 89667

Ion	Ratio	Lower	Upper
252	100		
126	13.2	14.5	21.7#
254	64.1	51.2	76.8

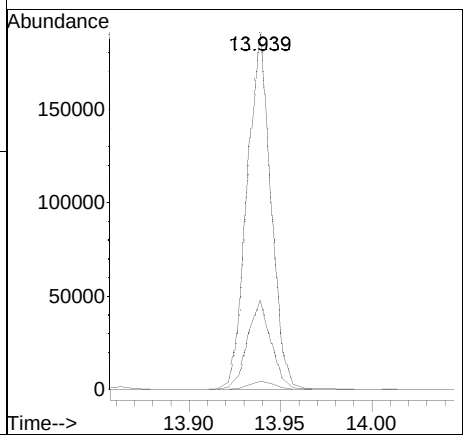


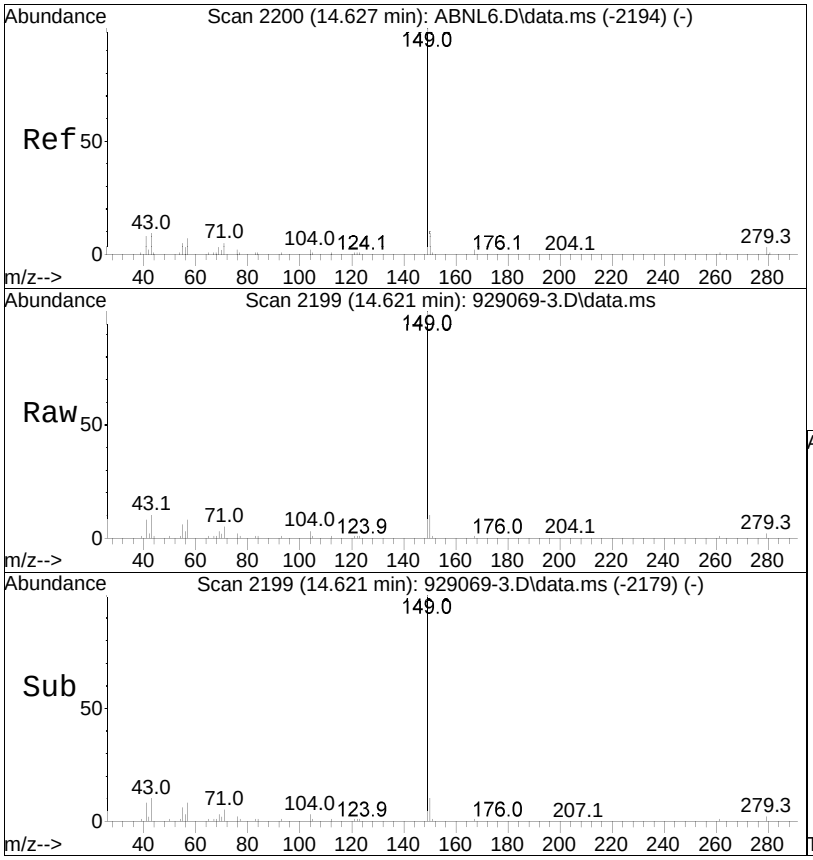


#107
Bis(2-ethylhexyl)phthalate
Concen: 3.80 ug/ml
RT: 13.939 min Scan# 2083
Delta R.T. -0.000 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:149 Resp: 171154

Ion	Ratio	Lower	Upper
149	100		
167	24.8	22.1	33.1
279	2.2	3.0	4.4#

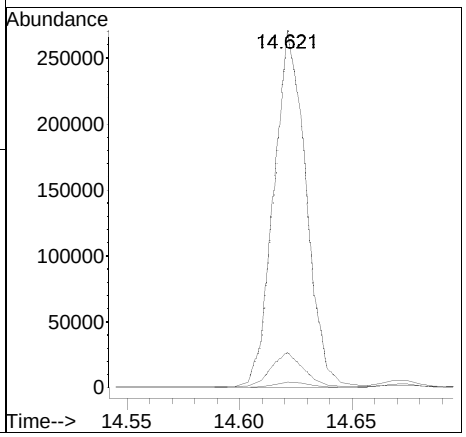




#108
Di-n-octylphthalate
Concen: 3.71 ug/ml
RT: 14.621 min Scan# 2199
Delta R.T. -0.006 min
Lab File: 929069-3.D
Acq: 5 Jun 2024 2:42 am

Tgt Ion:149 Resp: 266998

Ion	Ratio	Lower	Upper
149	100		
43	9.8	18.8	28.2#
167	1.4	1.3	1.9



Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : 929069-4.D
Acq On : 5 Jun 2024 12:02 pm
Operator : Dakota:sz
Sample : WG1929069-4,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 12:20:40 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 12:21:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.810	152	25581	4.000	ug/ml	0.00
Standard Area 1 = 25549			Recovery = 100.13%			
27) IS2_1,4-Dichlorobenzen...	4.810	152	25581	4.000	ug/ml	0.00
Standard Area 3 = 24259			Recovery = 105.45%			
34) IS1_Naphthalene-d8	6.044	136	94007	4.000	ug/ml	0.00
Standard Area 1 = 92758			Recovery = 101.35%			
54) IS2_Naphthalene-d8	6.044	136	94007	4.000	ug/ml	0.00
Standard Area 3 = 86554			Recovery = 108.61%			
62) IS1_Acenaphthene-d10	7.747	164	60020	4.000	ug/ml	0.00
Standard Area 1 = 60587			Recovery = 99.06%			
82) IS2_Acenaphthene-d10	7.747	164	60020	4.000	ug/ml	0.00
Standard Area 3 = 57668			Recovery = 104.08%			
85) IS3_Acenaphthene-d10	7.747	164	60020	4.000	ug/ml	0.00
Standard Area 2 = 66116			Recovery = 90.78%			
87) IS1_Phenanthrene-d10	9.180	188	130172	4.000	ug/ml	0.00
Standard Area 1 = 137458			Recovery = 94.70%			
99) IS3_Phenanthrene-d10	9.180	188	130172	4.000	ug/ml	0.00
Standard Area 2 = 156367			Recovery = 83.25%			
103) IS1_Chrysene-d12	11.822	240	133664	4.000	ug/ml	0.00
Standard Area 1 = 145741			Recovery = 91.71%			
112) IS1_Perylene-d12	13.292	264	156555	4.000	ug/ml	0.00
Standard Area 1 = 171394			Recovery = 91.34%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.545	112	24810	3.868	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 193.40%#			
7) Phenol-d6	4.484	99	27232	3.423	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 171.15%#			
19) Nitrobenzene-d5	5.348	82	14578	2.069	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 206.90%#			
45) 2-Fluorobiphenyl	7.110	172	43649	2.020	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 202.00%#			
78) 2,4,6-Tribromophenol	8.509	330	13393	4.782	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 239.10%#			
95) 4-Terphenyl-d14	10.759	244	69139	2.122	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 212.20%#			

Data Path : I:\8270\Dakota\240605RVT\
Data File : 929069-4.D
Acq On : 5 Jun 2024 12:02 pm
Operator : Dakota:sz
Sample : WG1929069-4,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 12:20:40 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 12:21:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.174	74	13268	3.225	ug/ml	90
3) Pyridine	2.218	79	14837	2.206	ug/ml#	60
5) Aniline	4.490	93	29764	2.864	ug/ml#	34
6) 2-Chlorophenol	4.605	128	31874	4.445	ug/ml#	86
8) Phenol	4.496	94	31211	3.503	ug/ml#	54
9) Bis(2-chloroethyl)ether	4.568	93	26316	4.342	ug/ml	94
10) 1,3-Dichlorobenzene	4.754	146	37539	4.129	ug/ml	94
11) 1,4-Dichlorobenzene	4.826	146	37644	4.171	ug/ml	94
12) 1,2-Dichlorobenzene	4.972	146	36690	4.206	ug/ml	94
13) Benzyl alcohol	4.956	79	23100	3.950	ug/ml	98
14) Bis(2-chloroisopropyl)...	5.096	45	42061	4.168	ug/ml#	54
15) 2-Methylphenol	5.084	108	25657	4.279	ug/ml	96
17) n-Nitrosodi-n-propylamine	5.223	70	22589	4.192	ug/ml#	86
18) 3-Methylphenol/4-Methy...	5.239	108	28146	4.306	ug/ml	97
20) Nitrobenzene	5.366	77	28685	4.136	ug/ml	94
21) Isophorone	5.606	82	55448	4.129	ug/ml	94
22) 2-Nitrophenol	5.680	139	13393	4.227	ug/ml	91
23) 2,4-Dimethylphenol	5.752	107	25103	4.037	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.836	93	36581	4.547	ug/ml#	96
25) 2,4-Dichlorophenol	5.917	162	32740	4.546	ug/ml#	93
26) 1,2,4-Trichlorobenzene	5.997	180	37581	4.348	ug/ml#	95
28) Benzaldehyde	4.375	105	24974	4.071	ug/ml	100
29) Acetophenone	5.205	105	44182	4.336	ug/ml#	80
36) Benzoic Acid	5.798	105	2249	1.468	ug/ml#	85
37) 4-Chloroaniline	6.128	65	10067	3.635	ug/ml	93
39) p-Chloro-m-cresol	6.622	107	26402	4.306	ug/ml#	89
42) Hexachlorocyclopentadiene	6.911	237	18405	3.247	ug/ml	98
43) 2,4,6-Trichlorophenol	7.026	196	27159	4.330	ug/ml	98
44) 2,4,5-Trichlorophenol	7.054	196	30637	4.491	ug/ml	98
47) 2-Nitroaniline	7.315	138	17406	4.146	ug/ml	83
50) Dimethyl phthalate	7.514	163	88808	4.219	ug/ml#	97
52) 2,6-Dinitrotoluene	7.558	165	15111	4.086	ug/ml#	80
59) Caprolactam	6.426	55	6058	1.997	ug/ml#	73
60) 1,2,4,5-Tetrachloroben...	6.908	216	41846	3.965	ug/ml#	96
61) Biphenyl	7.200	154	87055	3.980	ug/ml	97
63) 3-Nitroaniline	7.713	138	14896	4.201	ug/ml	96
65) 2,4-Dinitrophenol	7.816	184	6687	3.584	ug/ml	88

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : 929069-4.D
Acq On : 5 Jun 2024 12:02 pm
Operator : Dakota:sz
Sample : WG1929069-4,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 12:20:40 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 12:21:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) Dibenzofuran	7.946	168	111576	4.466	ug/ml	90
67) 2,4-Dinitrotoluene	7.946	165	19687	4.389	ug/ml	95
68) 4-Nitrophenol	7.896	65	13090	4.263	ug/ml#	88
70) 2,3,4,6-Tetrachlorophenol	8.077	232	24272	4.552	ug/ml	98
71) Diethyl phthalate	8.204	149	86493	4.233	ug/ml	100
73) 4-Chlorophenyl phenyl ...	8.294	204	45661	4.333	ug/ml#	83
74) 4-Nitroaniline	8.300	138	15116	4.002	ug/ml#	89
75) 4,6-Dinitro-o-cresol	8.338	198	11343	4.311	ug/ml#	62
76) NDPA/DPA	8.409	169	76256	4.453	ug/ml	94
77) Azobenzene	8.443	77	73536	4.292	ug/ml	96
79) 4-Bromophenyl phenyl e...	8.764	248	28656	4.378	ug/ml#	78
84) Pentachloronitrobenzene	9.028	237	11021	4.576	ug/ml#	80
86) Atrazine	8.944	200	25191	3.966	ug/ml	92
90) Carbazole	9.416	167	136403	4.417	ug/ml	98
91) Di-n-butylphthalate	9.799	149	150217	4.475	ug/ml	98
93) Benzidine	10.504	184	27814	1.166	ug/ml#	94
96) Butyl benzyl phthalate	11.284	149	68667	4.464	ug/ml#	84
101) Parathion	9.960	109	12138	4.836	ug/ml	94
105) 3,3'-Dichlorobenzidine	11.810	252	66395	4.201	ug/ml#	94
107) Bis(2-ethylhexyl)phtha...	11.921	149	101326	4.552	ug/ml#	93
108) Di-n-octylphthalate	12.599	149	170959	4.502	ug/ml#	74

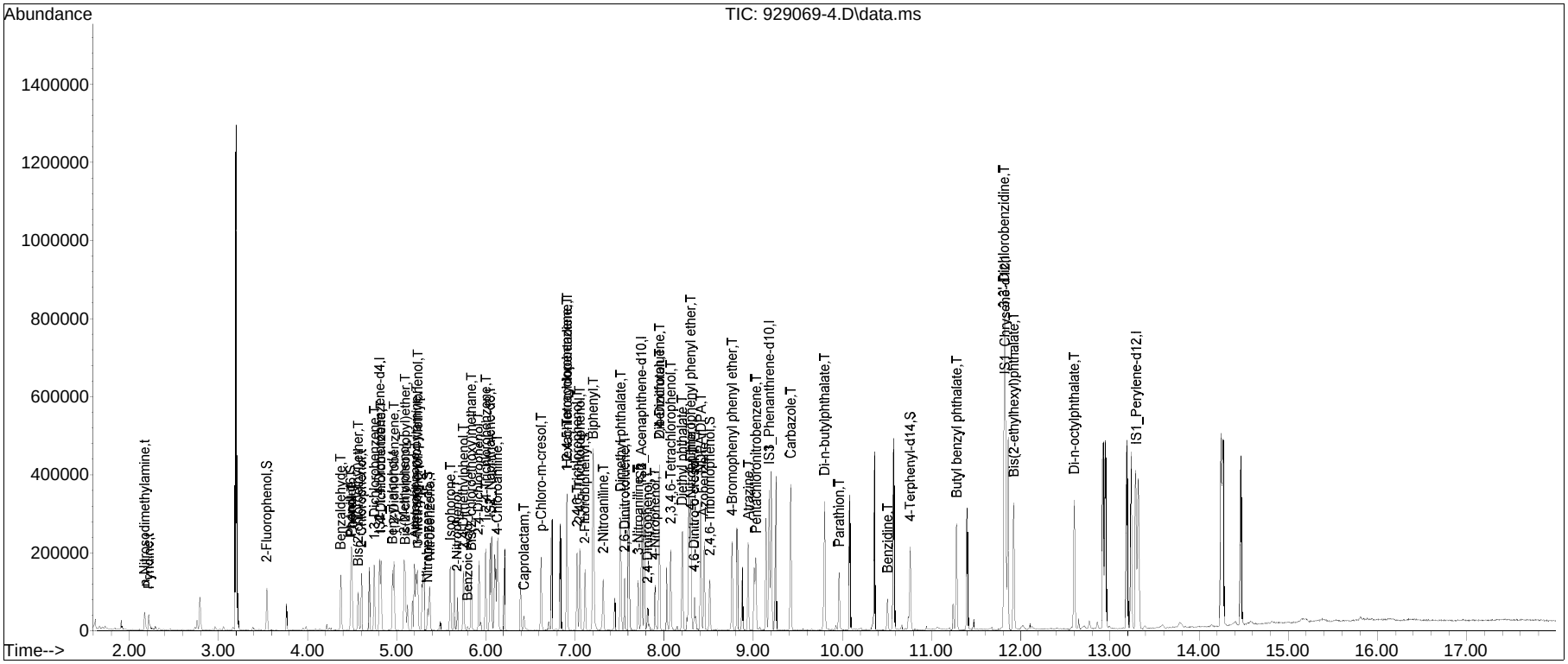
(#) = qualifier out of range (m) = manual integration (+) = signals summed

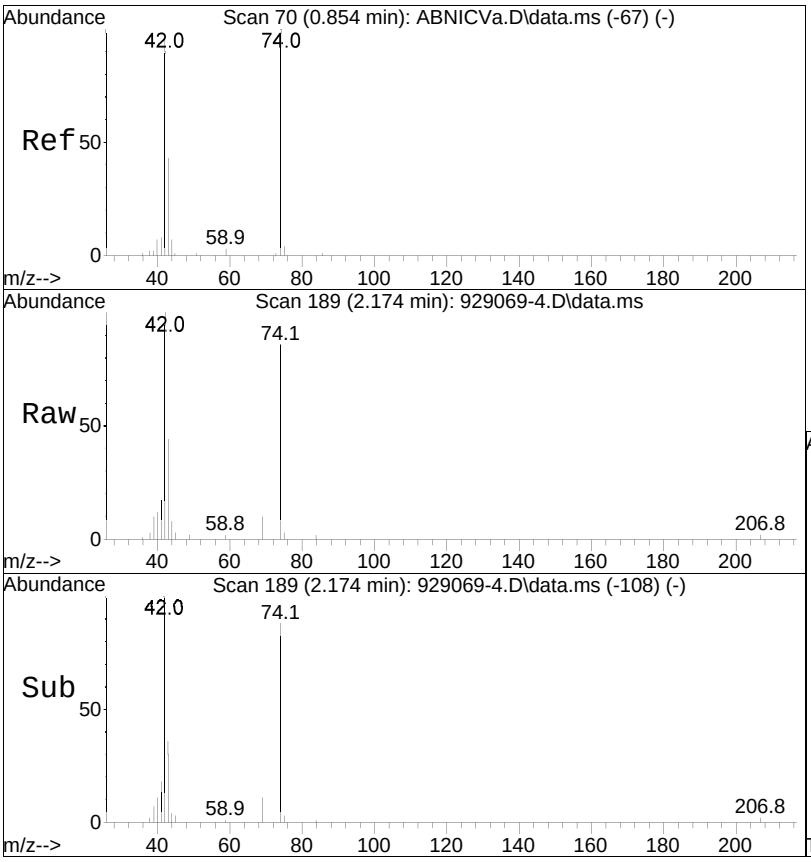
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : 929069-4.D
Acq On : 5 Jun 2024 12:02 pm
Operator : Dakota:sz
Sample : WG1929069-4,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 12:20:40 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 12:21:14 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90605.D•

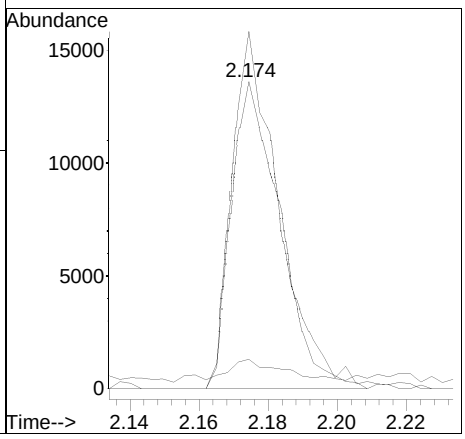


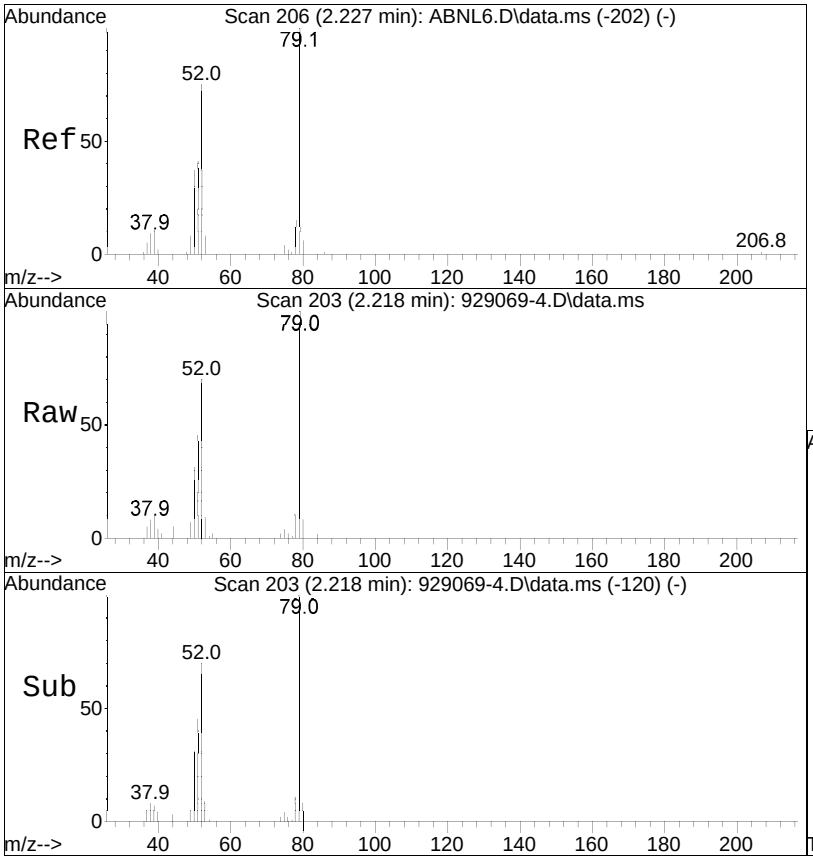


#2
n-Nitrosodimethylamine
Concen: 3.23 ug/ml
RT: 2.174 min Scan# 189
Delta R.T. 0.003 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion: 74 Resp: 13268

Ion	Ratio	Lower	Upper
74	100		
42	113.0	100.0	150.0
44	6.9	6.7	10.1

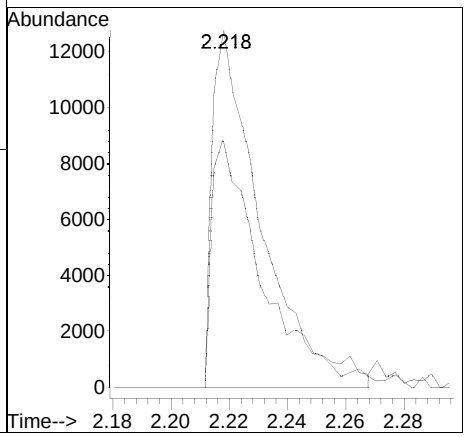


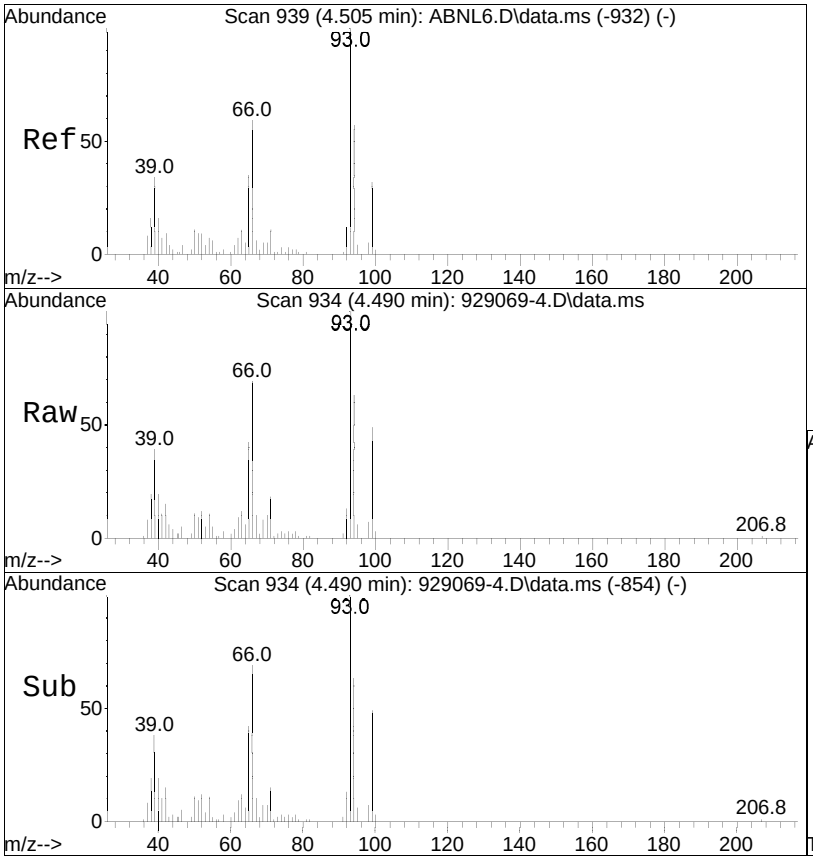


#3
Pyridine
Concen: 2.21 ug/ml
RT: 2.218 min Scan# 203
Delta R.T. 0.009 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion: 79 Resp: 14837

Ion	Ratio	Lower	Upper
79	100		
52	72.5	93.1	139.7#

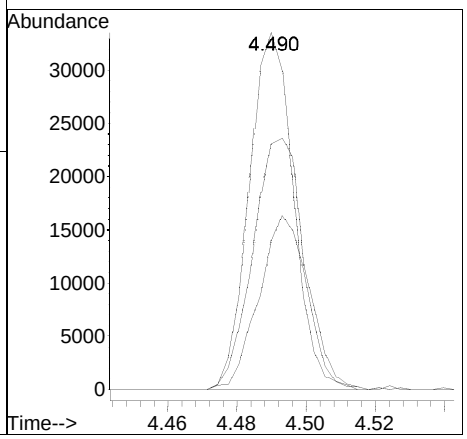


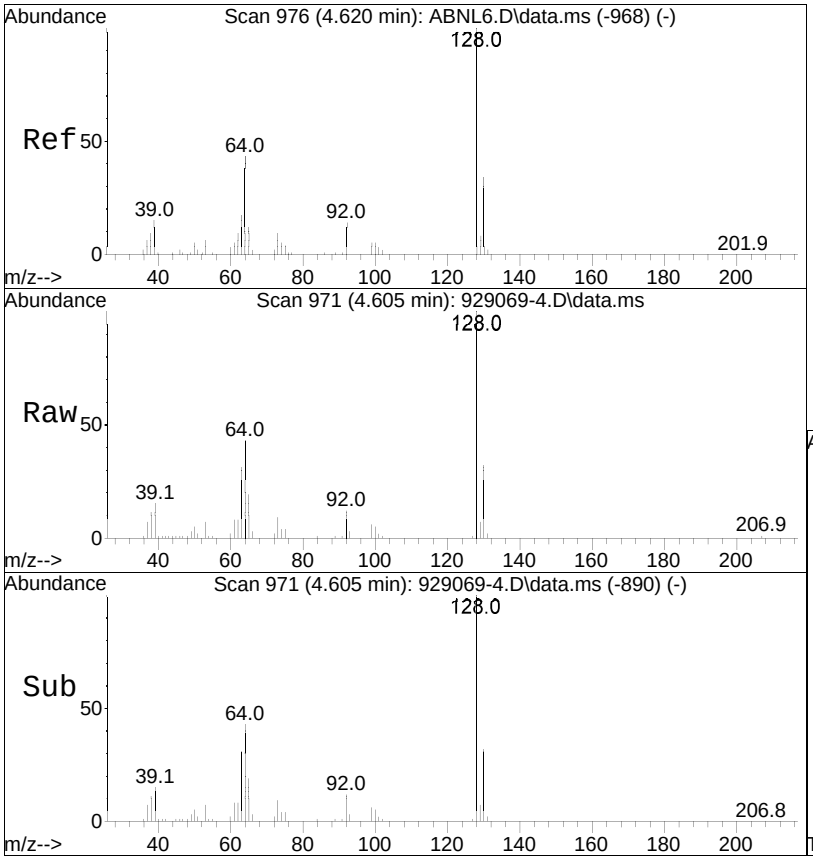


#5
Aniline
Concen: 2.86 ug/ml
RT: 4.490 min Scan# 934
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion: 93 Resp: 29764

Ion	Ratio	Lower	Upper
93	100		
66	82.2	32.6	49.0#
65	53.0	17.6	26.4#

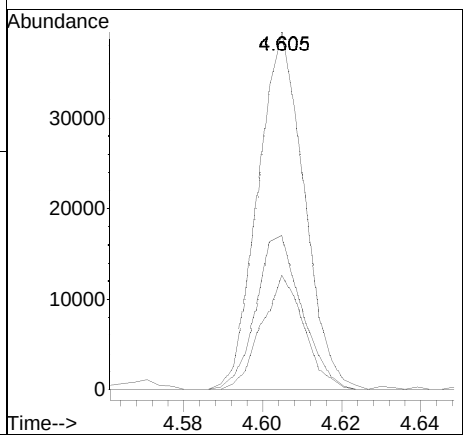


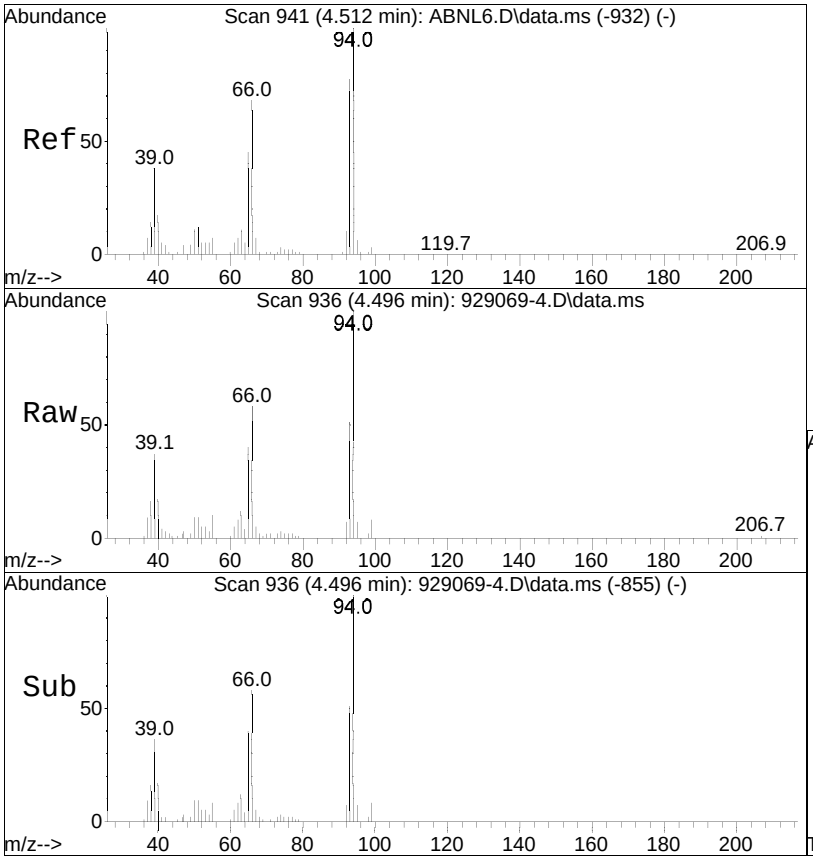


#6
2-Chlorophenol
Concen: 4.45 ug/ml
RT: 4.605 min Scan# 971
Delta R.T. 0.003 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:128 Resp: 31874

Ion	Ratio	Lower	Upper
128	100		
64	42.8	45.1	67.7#
130	29.6	26.2	39.4

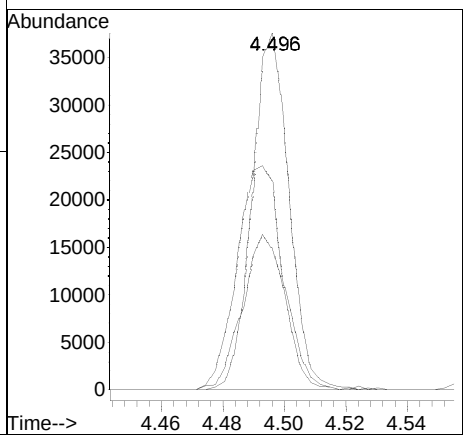


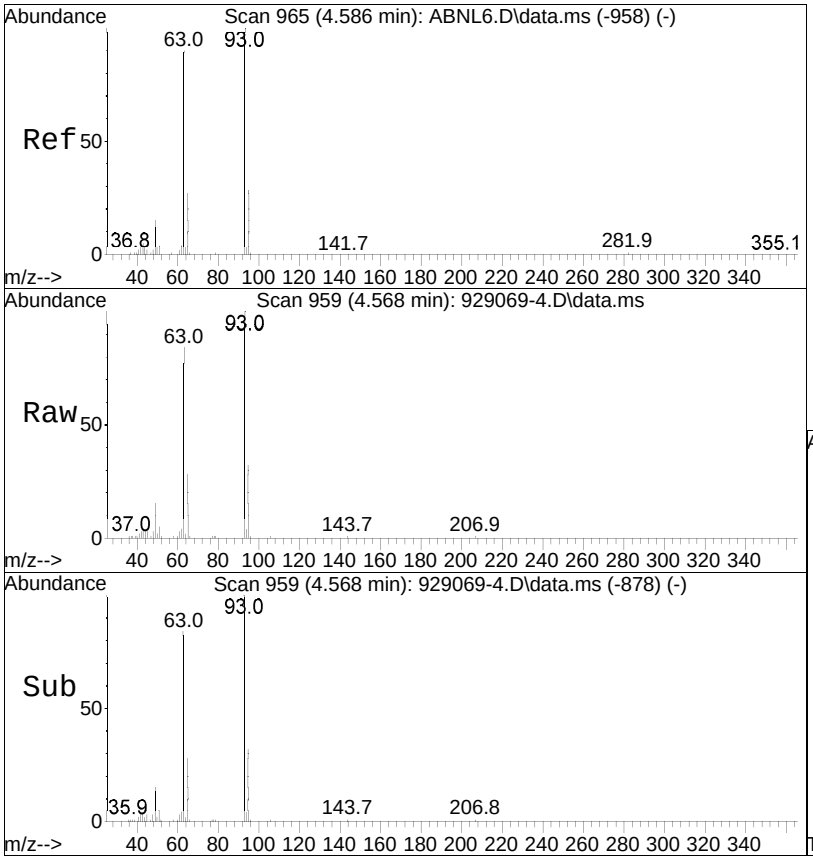


#8
Phenol
Concen: 3.50 ug/ml
RT: 4.496 min Scan# 936
Delta R.T. 0.003 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion: 94 Resp: 31211

Ion	Ratio	Lower	Upper
94	100		
65	50.5	26.0	39.0#
66	78.4	33.8	50.8#

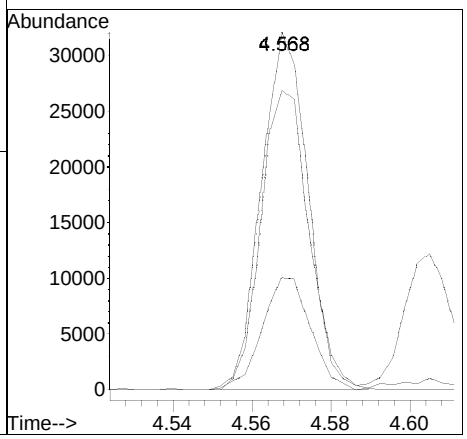


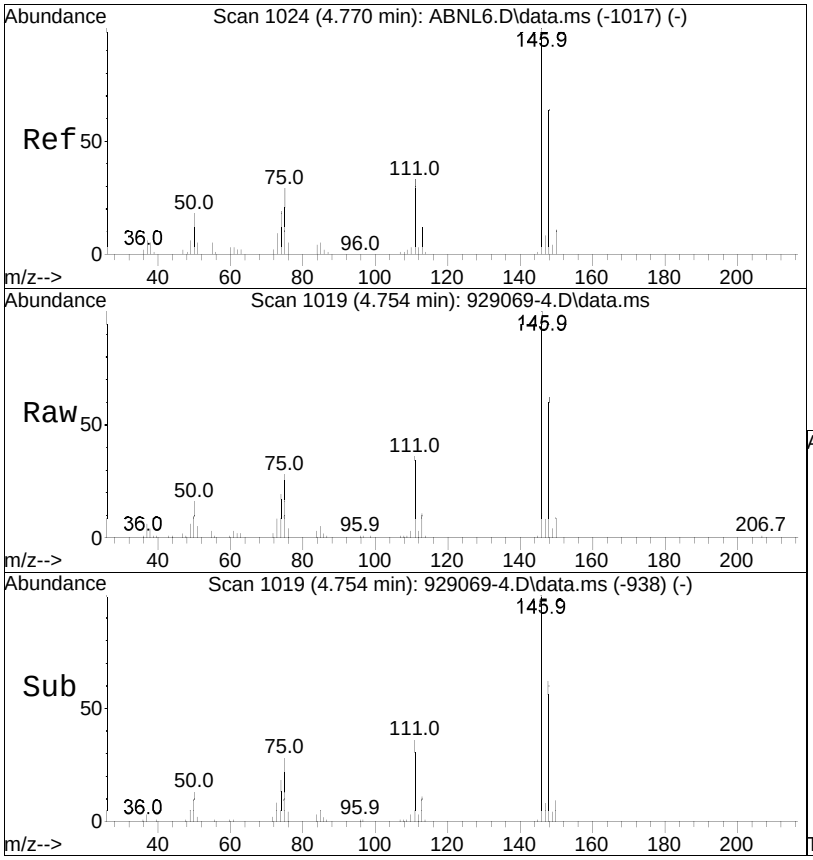


#9
Bis(2-chloroethyl)ether
Concen: 4.34 ug/ml
RT: 4.568 min Scan# 959
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion: 93 Resp: 26316

Ion	Ratio	Lower	Upper
93	100		
63	85.4	74.6	111.8
95	32.8	25.9	38.9

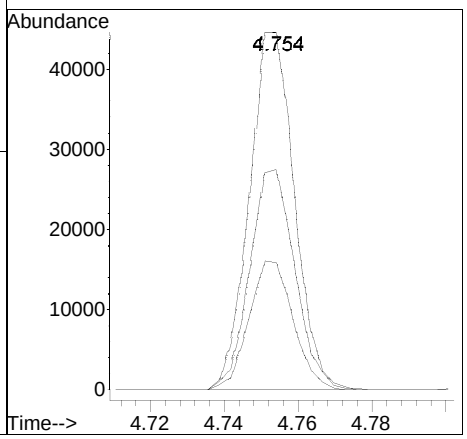


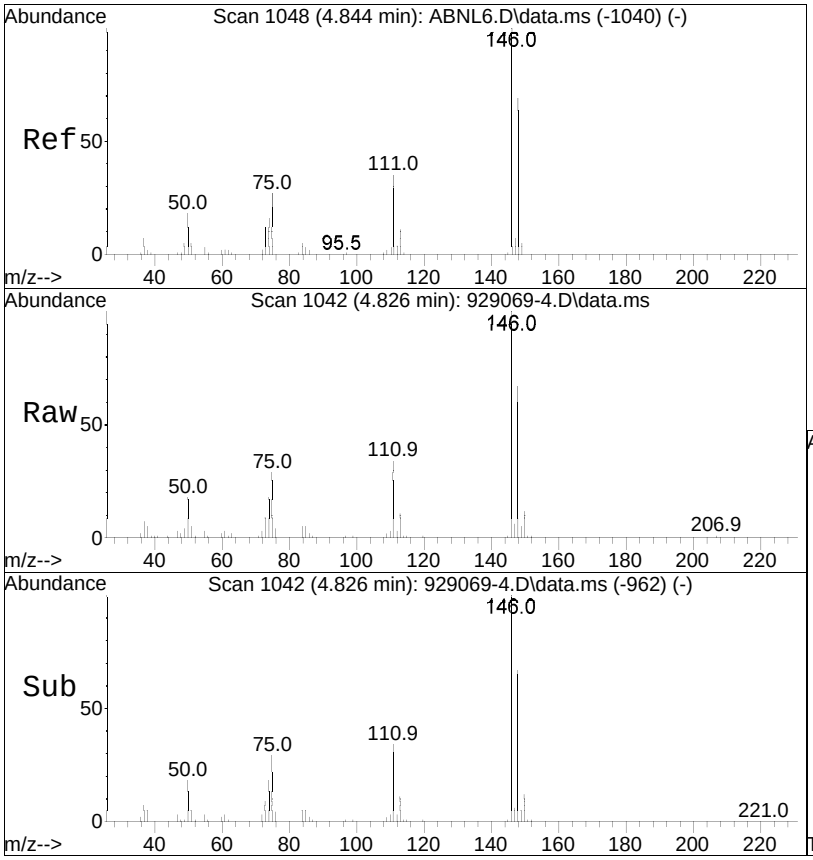


#10
1,3-Dichlorobenzene
Concen: 4.13 ug/ml
RT: 4.754 min Scan# 1019
Delta R.T. 0.003 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:146 Resp: 37539

Ion	Ratio	Lower	Upper
146	100		
111	35.5	34.3	51.5
148	62.0	50.8	76.2

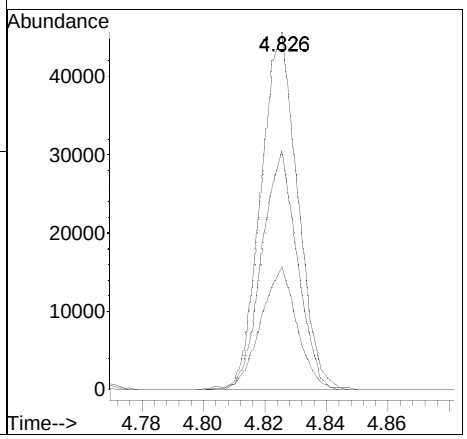


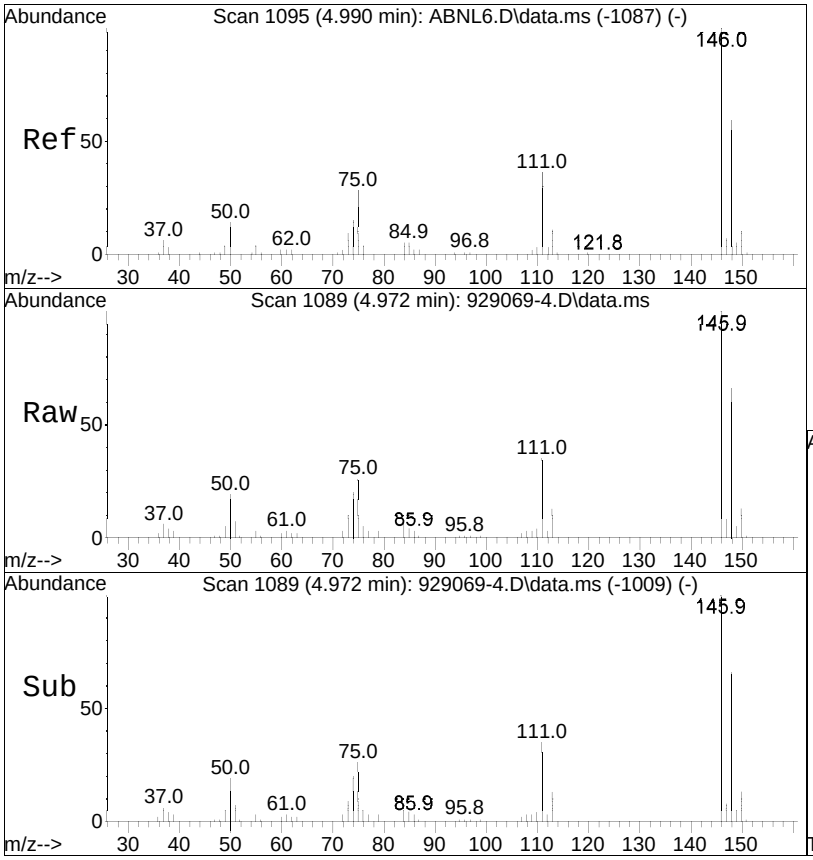


#11
1,4-Dichlorobenzene
Concen: 4.17 ug/ml
RT: 4.826 min Scan# 1042
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:146 Resp: 37644

Ion	Ratio	Lower	Upper
146	100		
148	64.7	50.7	76.1
111	34.2	33.4	50.0

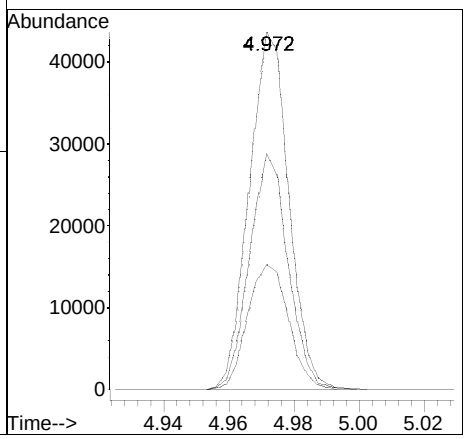


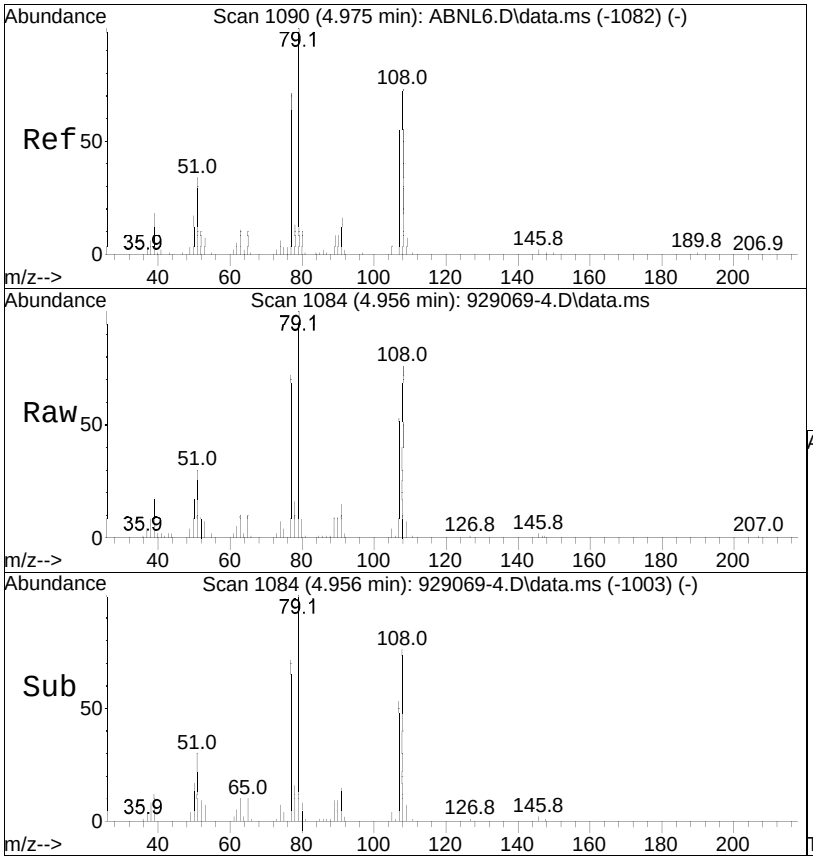


#12
1,2-Dichlorobenzene
Concen: 4.21 ug/ml
RT: 4.972 min Scan# 1089
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:146 Resp: 36690

Ion	Ratio	Lower	Upper
146	100		
111	36.5	34.6	52.0
148	64.6	50.2	75.4

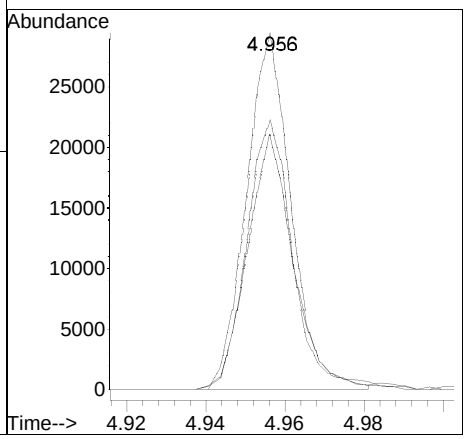


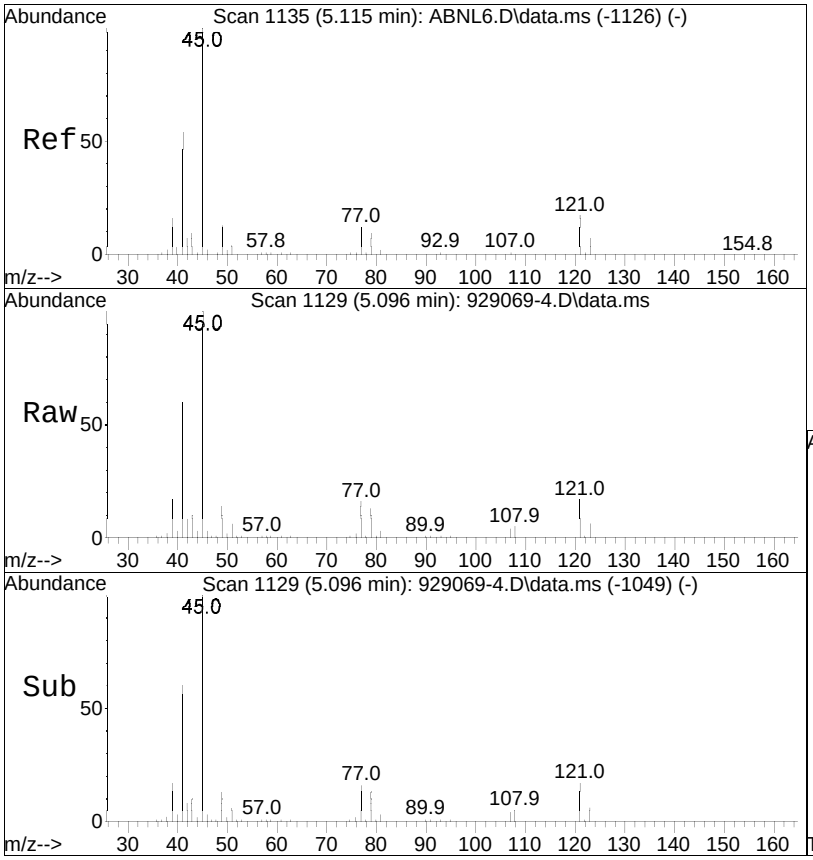


#13
Benzyl alcohol
Concen: 3.95 ug/ml
RT: 4.956 min Scan# 1084
Delta R.T. 0.003 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion: 79 Resp: 23100

Ion	Ratio	Lower	Upper
79	100		
77	72.3	54.9	82.3
108	79.3	63.1	94.7

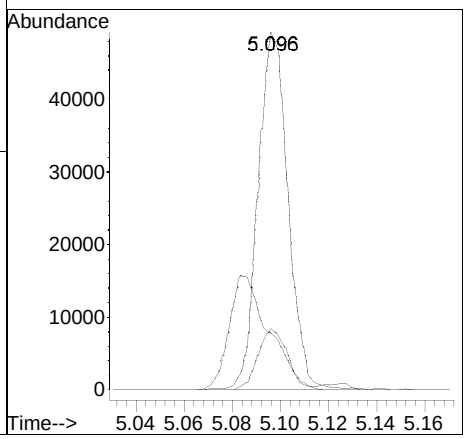


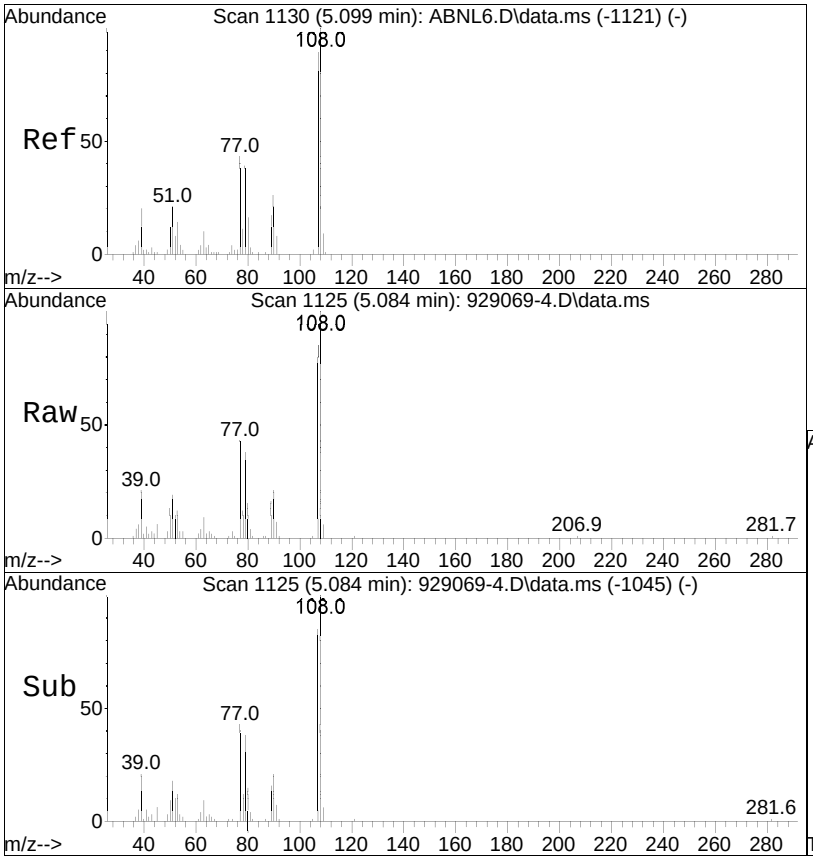


#14
Bis(2-chloroisopropyl)ether
Concen: 4.17 ug/ml
RT: 5.096 min Scan# 1129
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion: 45 Resp: 42061

Ion	Ratio	Lower	Upper
45	100		
121	17.1	9.8	14.6#
77	42.5	6.1	9.1#

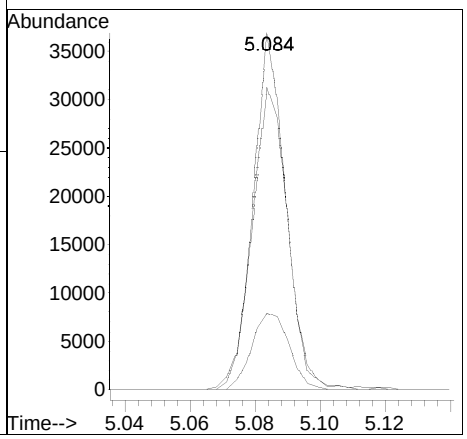


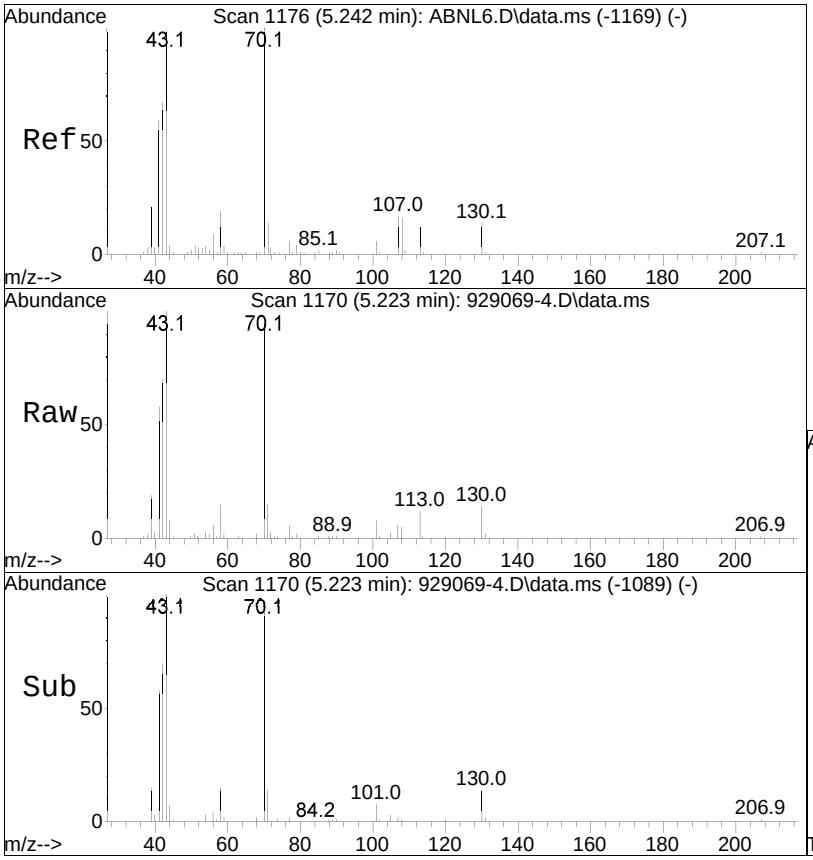


#15
2-Methylphenol
Concen: 4.28 ug/ml
RT: 5.084 min Scan# 1125
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:108 Resp: 25657

Ion	Ratio	Lower	Upper
108	100		
107	91.9	70.7	106.1
90	24.6	18.7	28.1

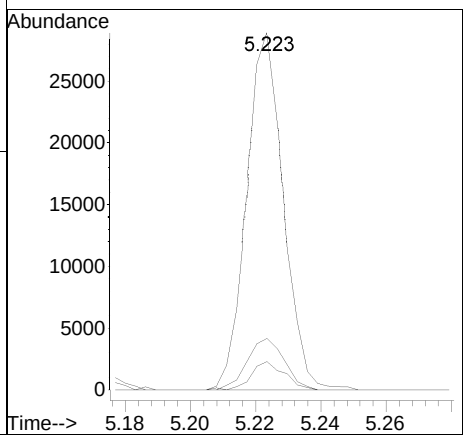


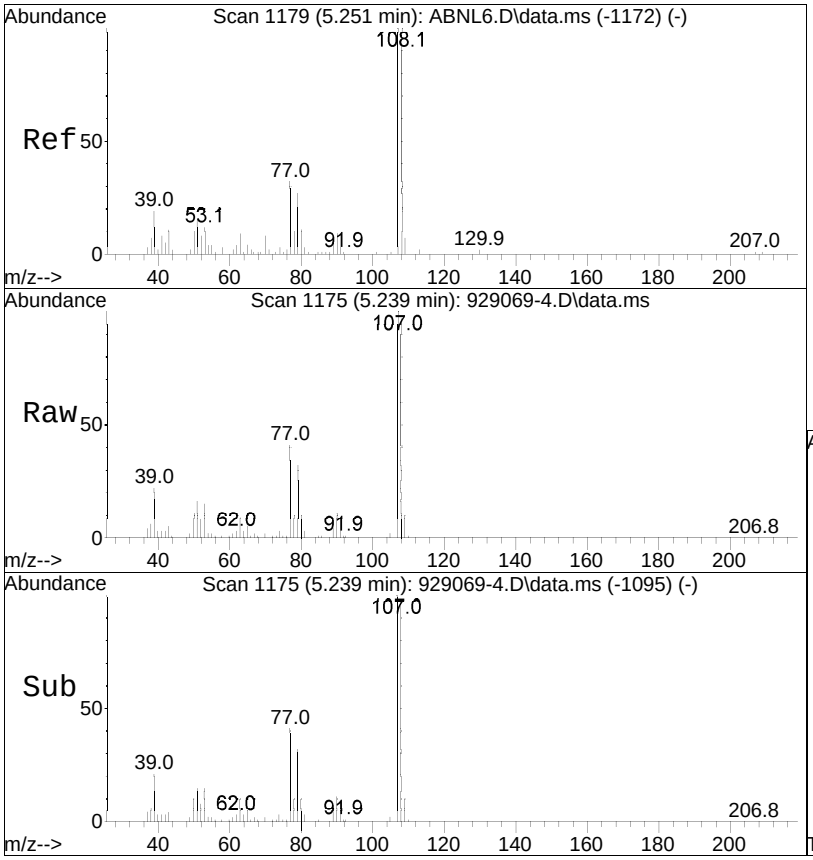


#17
n-Nitrosodi-n-propylamine
Concen: 4.19 ug/ml
RT: 5.223 min Scan# 1170
Delta R.T. 0.003 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion: 70 Resp: 22589

Ion	Ratio	Lower	Upper
70	100		
130	14.6	18.2	27.4#
101	7.2	7.8	11.8#

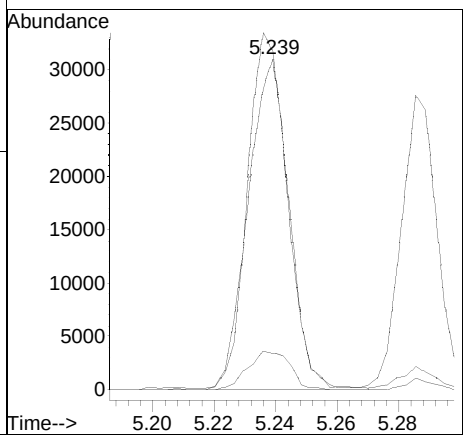


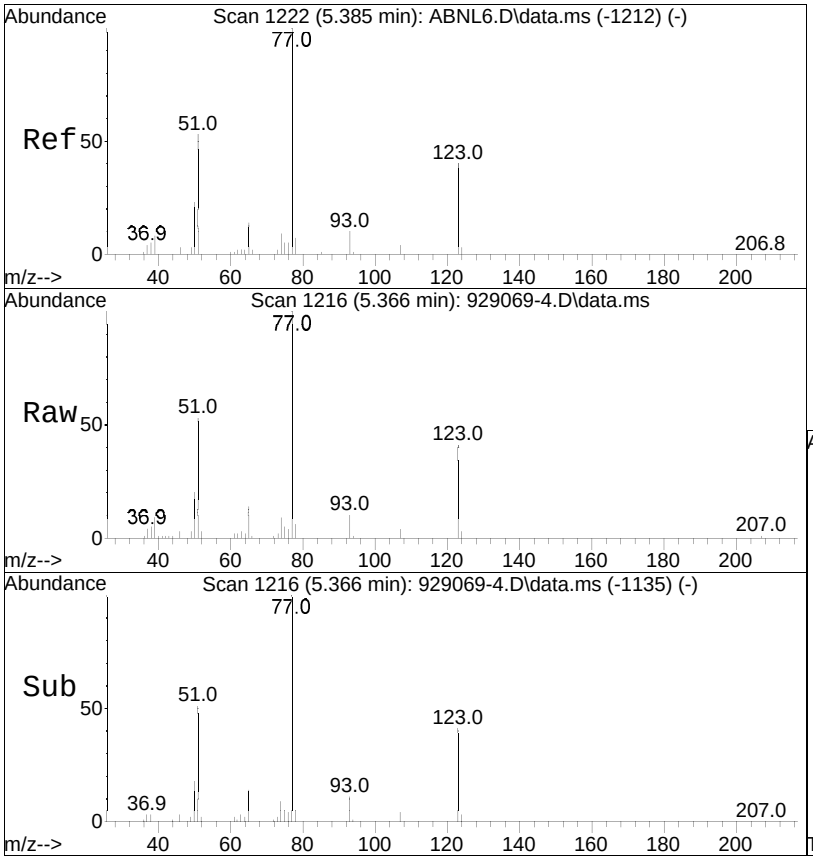


#18
3-Methylphenol/4-Methylphenol
Concen: 4.31 ug/ml
RT: 5.239 min Scan# 1175
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:108 Resp: 28146

Ion	Ratio	Lower	Upper
108	100		
107	108.1	88.6	132.8
90	12.5	8.8	13.2

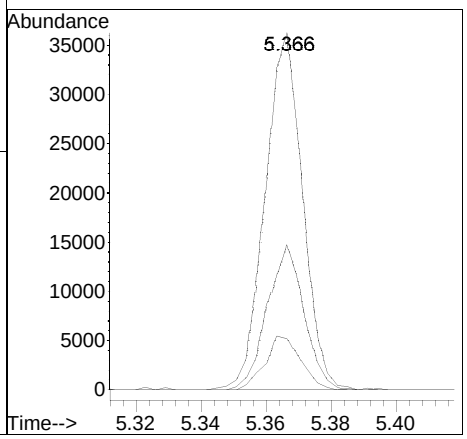


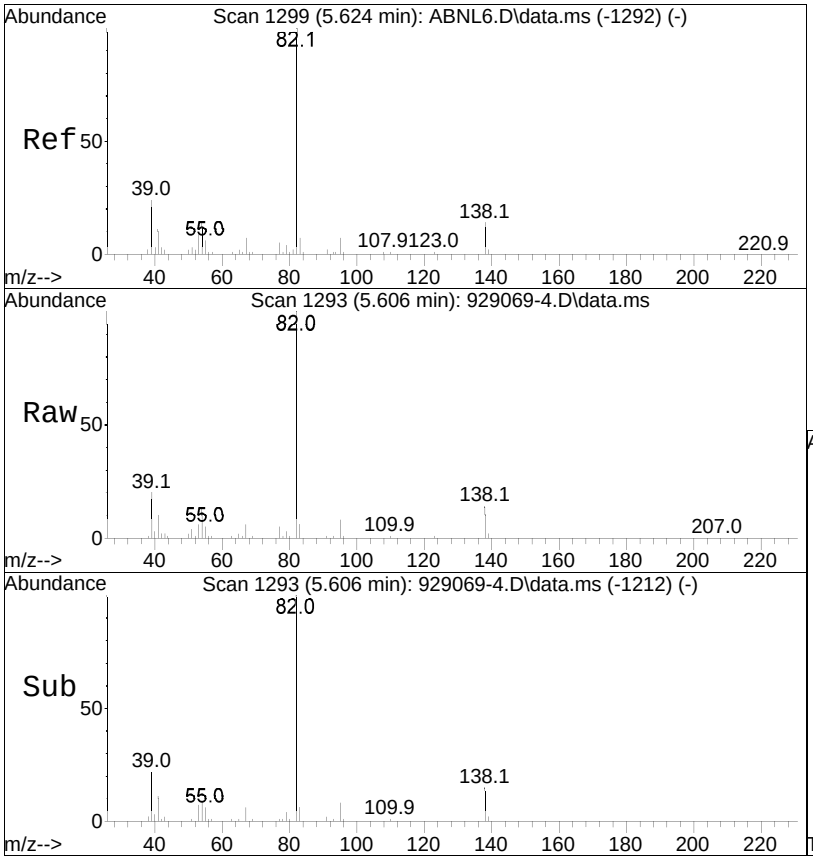


#20
Nitrobenzene
Concen: 4.14 ug/ml
RT: 5.366 min Scan# 1216
Delta R.T. 0.003 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion: 77 Resp: 28685

Ion	Ratio	Lower	Upper
77	100		
123	39.9	36.3	54.5
65	14.5	11.6	17.4

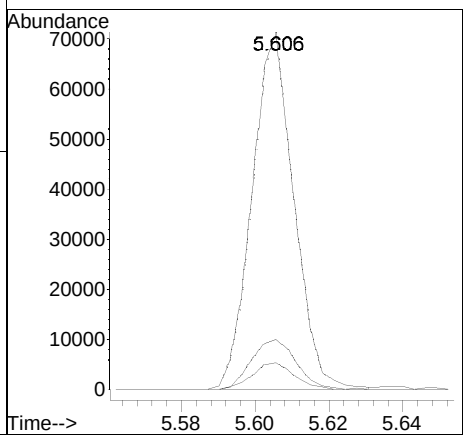


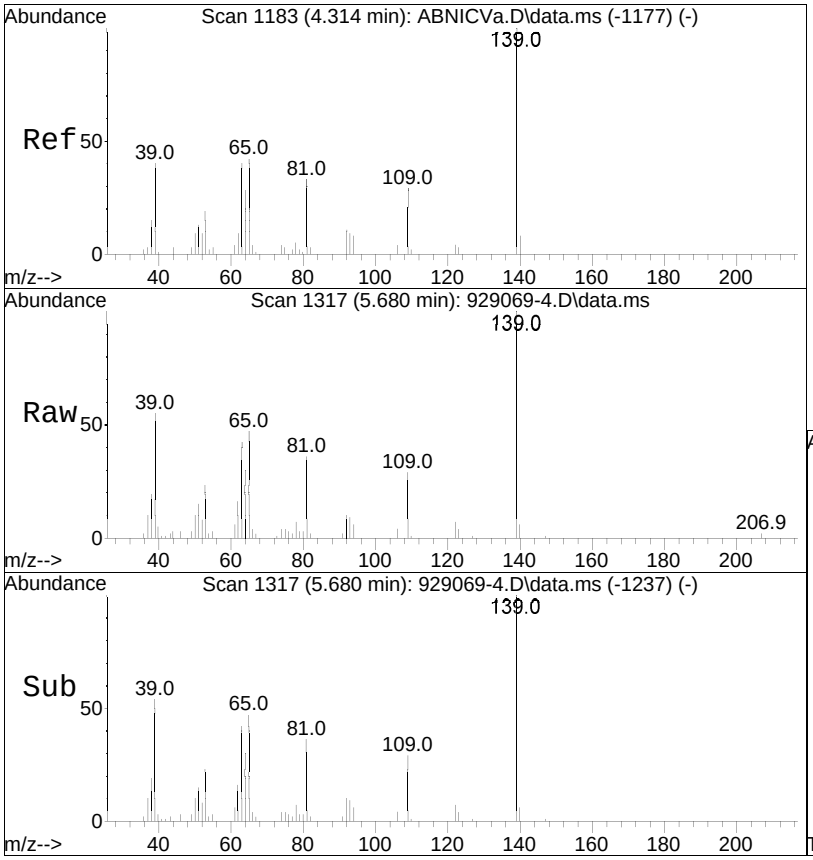


#21
Isophorone
Concen: 4.13 ug/ml
RT: 5.606 min Scan# 1293
Delta R.T. 0.003 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion: 82 Resp: 55448

Ion	Ratio	Lower	Upper
82	100		
138	15.1	14.7	22.1
95	7.6	5.2	7.8

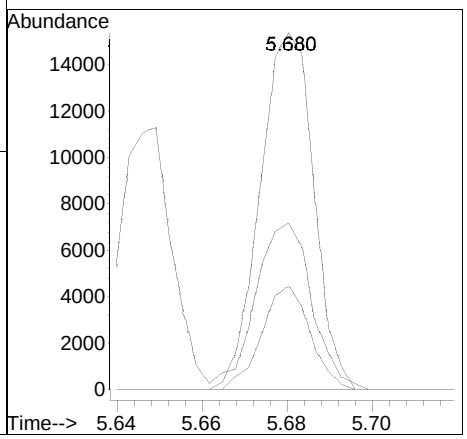


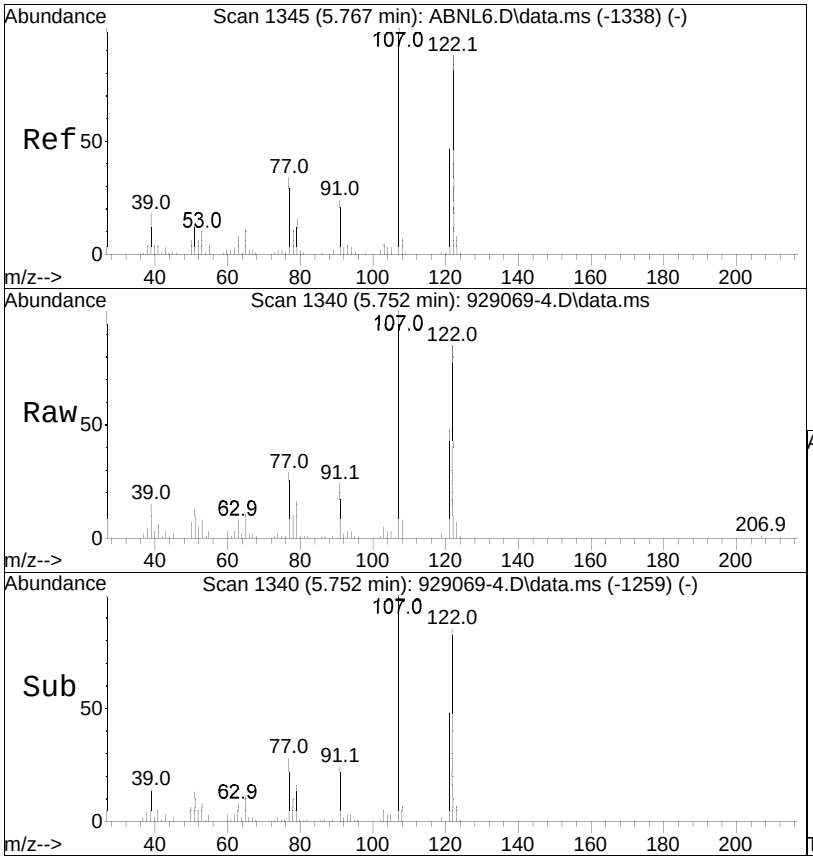


#22
2-Nitrophenol
Concen: 4.23 ug/ml
RT: 5.680 min Scan# 1317
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:139 Resp: 13393

Ion	Ratio	Lower	Upper
139	100		
109	26.3	19.4	29.0
65	49.1	46.1	69.1

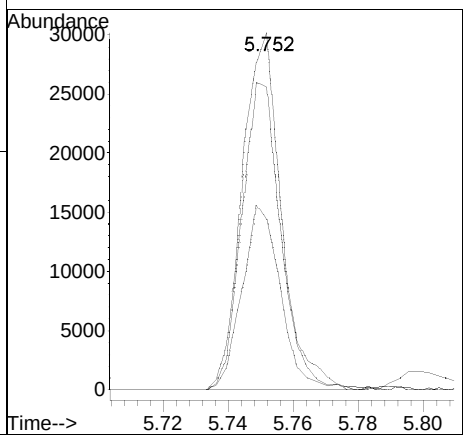


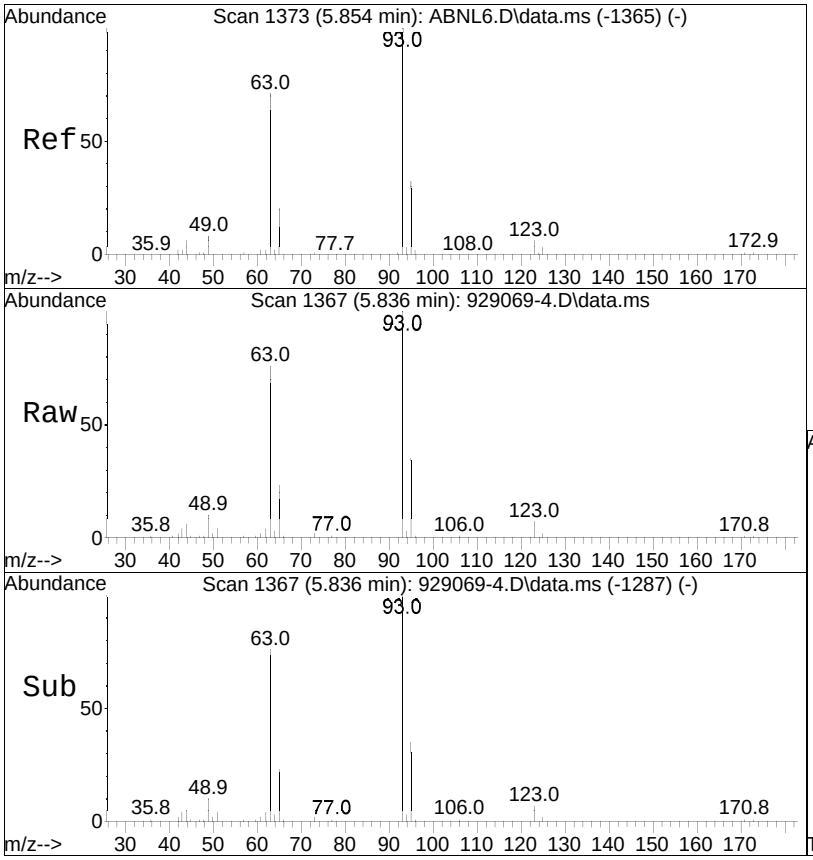


#23
2,4-Dimethylphenol
Concen: 4.04 ug/ml
RT: 5.752 min Scan# 1340
Delta R.T. 0.003 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:107 Resp: 25103

Ion	Ratio	Lower	Upper
107	100		
121	50.8	40.0	60.0
122	85.3	70.2	105.4

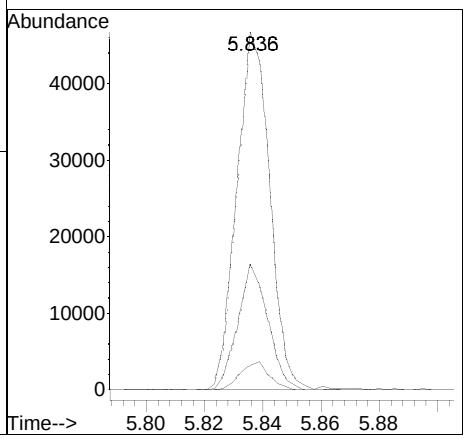


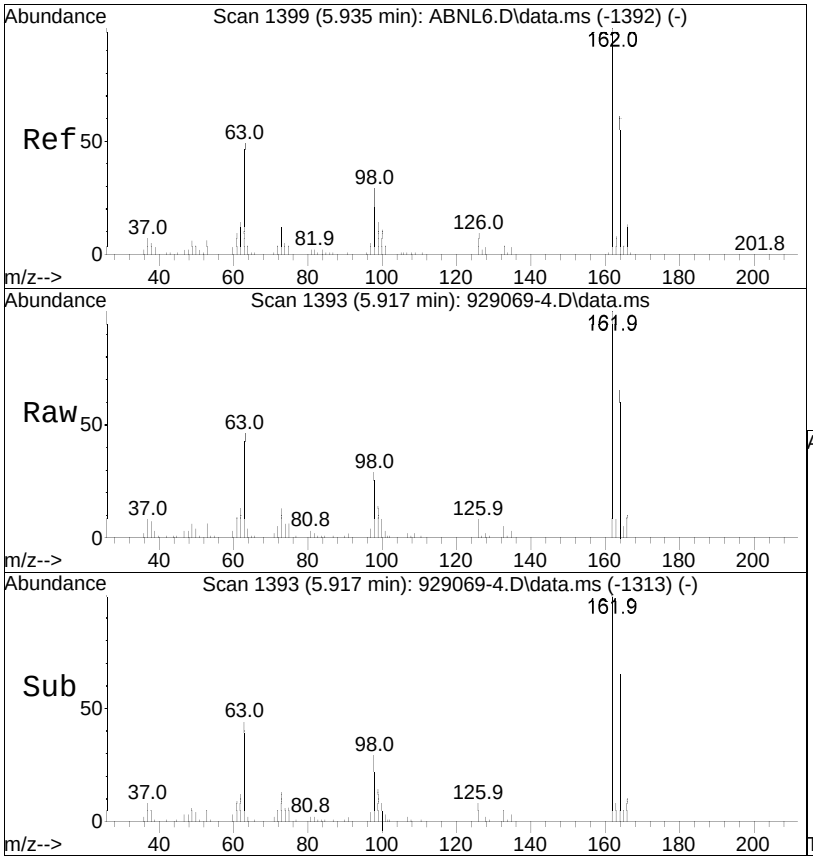


#24
Bis(2-chloroethoxy)methane
Concen: 4.55 ug/ml
RT: 5.836 min Scan# 1367
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion: 93 Resp: 36581

Ion	Ratio	Lower	Upper
93	100		
95	32.2	25.8	38.8
123	7.0	10.1	15.1#

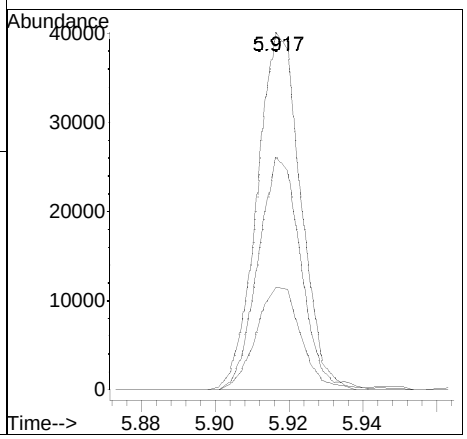


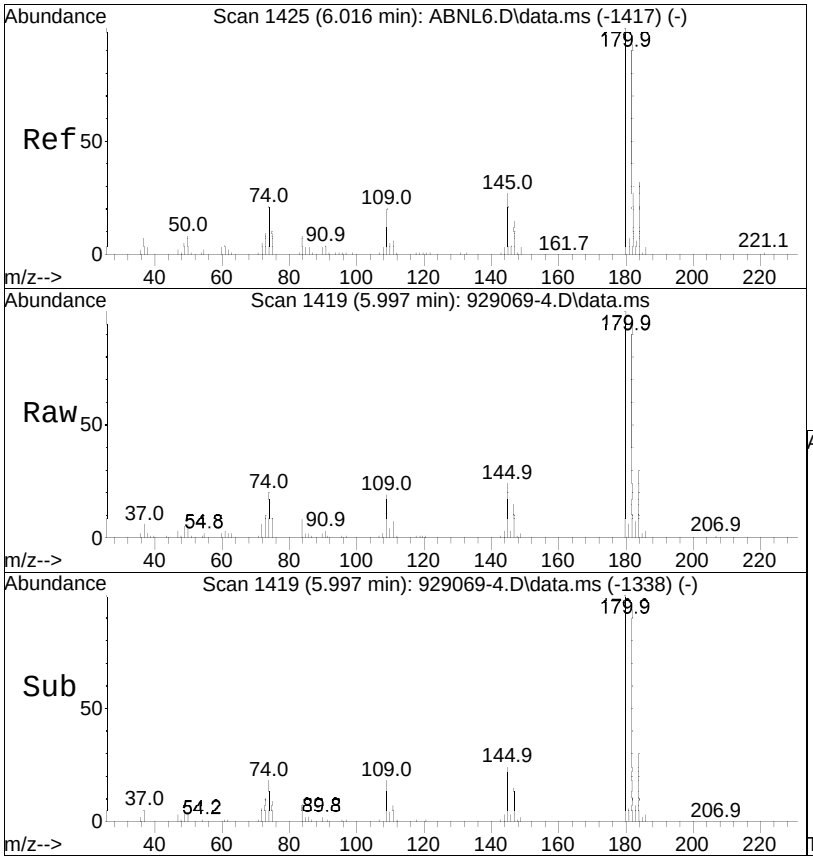


#25
2,4-Dichlorophenol
Concen: 4.55 ug/ml
RT: 5.917 min Scan# 1393
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:162 Resp: 32740

Ion	Ratio	Lower	Upper
162	100		
164	64.3	51.0	76.4
98	29.4	32.2	48.2#

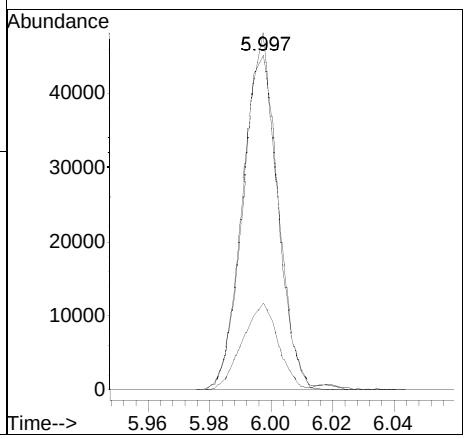


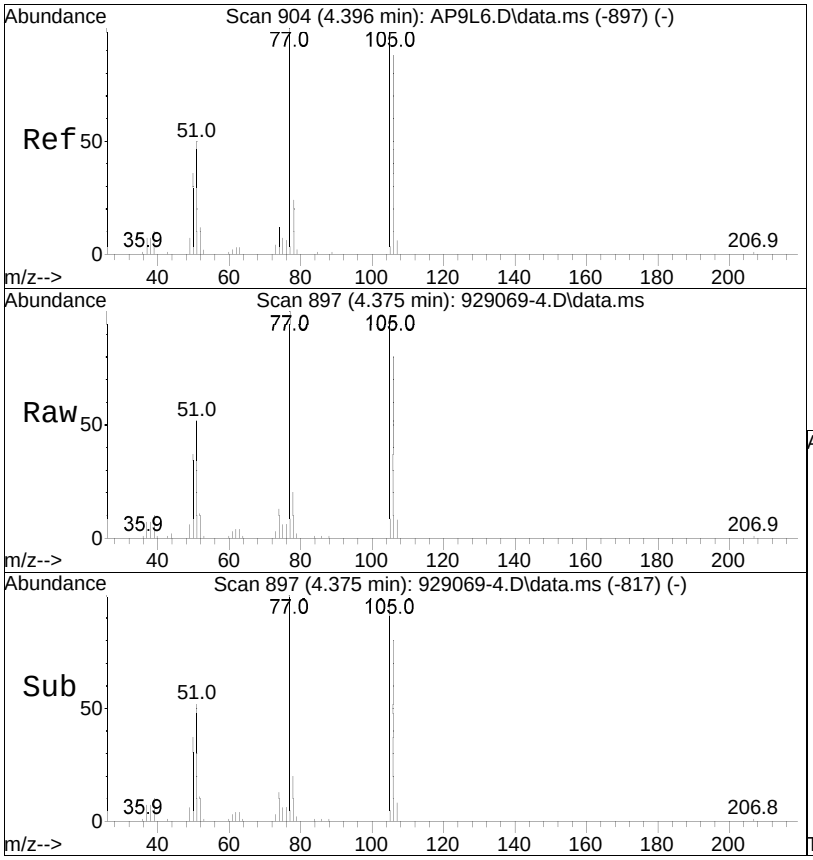


#26
1,2,4-Trichlorobenzene
Concen: 4.35 ug/ml
RT: 5.997 min Scan# 1419
Delta R.T. 0.003 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:180 Resp: 37581

Ion	Ratio	Lower	Upper
180	100		
182	97.9	76.0	114.0
145	25.5	25.7	38.5#

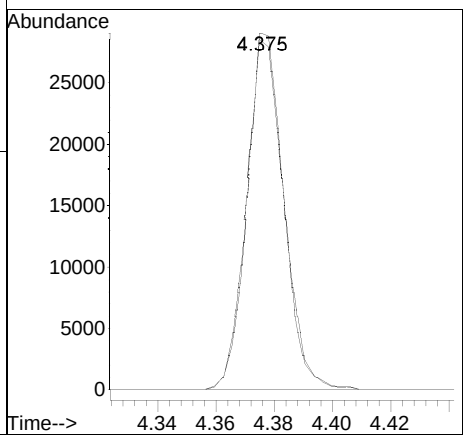


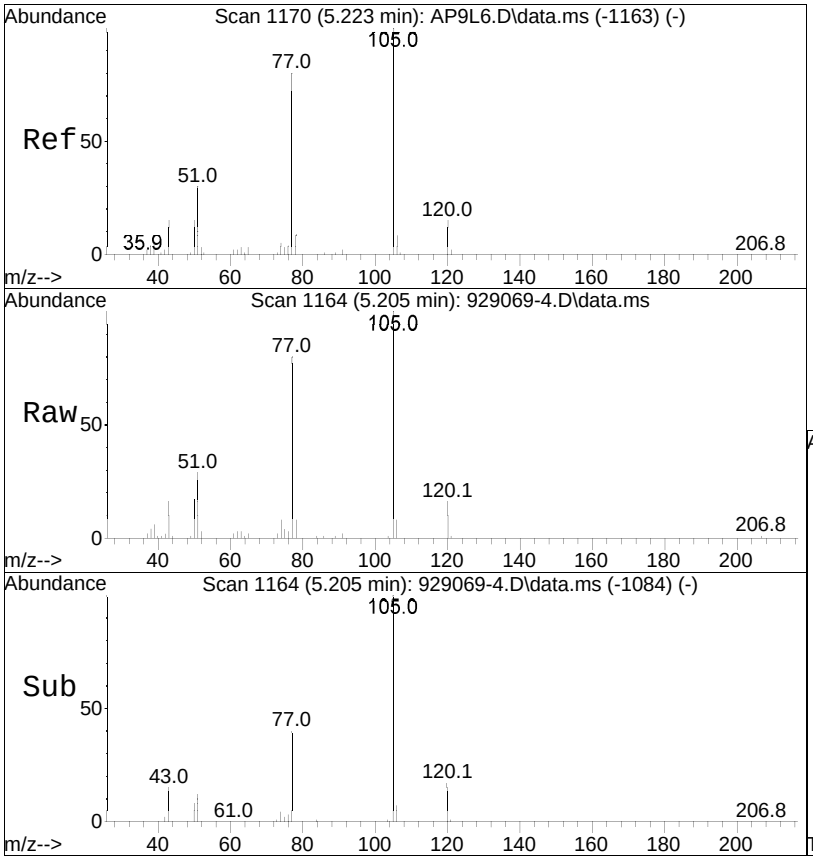


#28
Benzaldehyde
Concen: 4.07 ug/ml
RT: 4.375 min Scan# 897
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:105 Resp: 24974

Ion	Ratio	Lower	Upper
105	100		
77	103.0	82.2	123.4

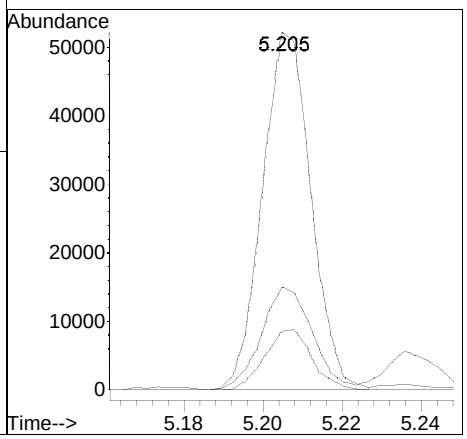


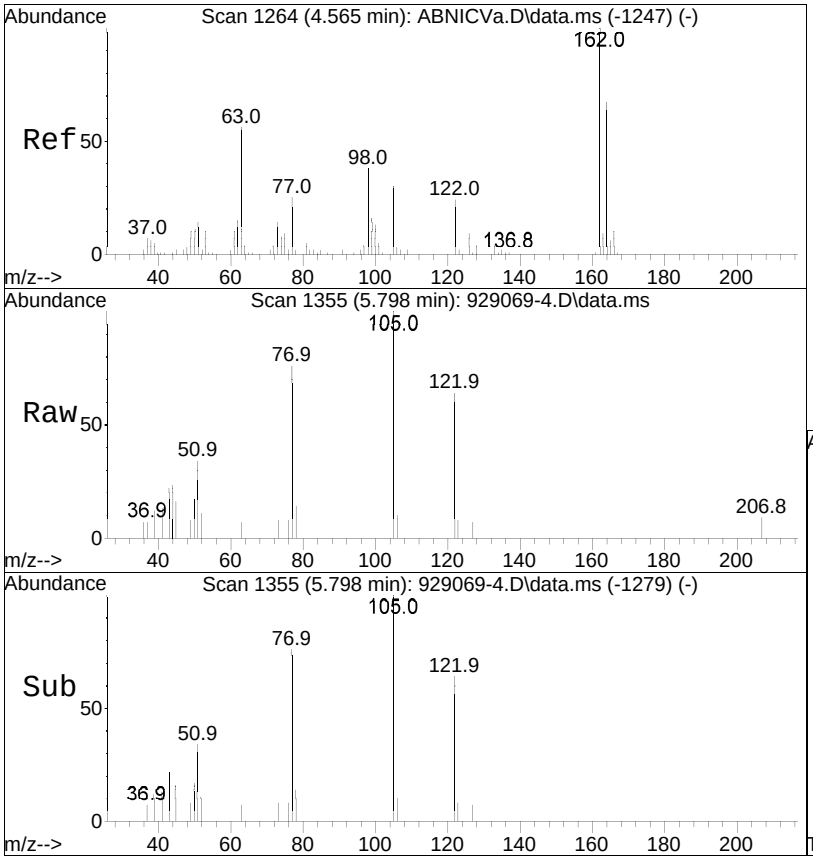


#29
Acetophenone
Concen: 4.34 ug/ml
RT: 5.205 min Scan# 1164
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:105 Resp: 44182

Ion	Ratio	Lower	Upper
105	100		
120	16.5	20.5	30.7#
51	30.3	34.9	52.3#

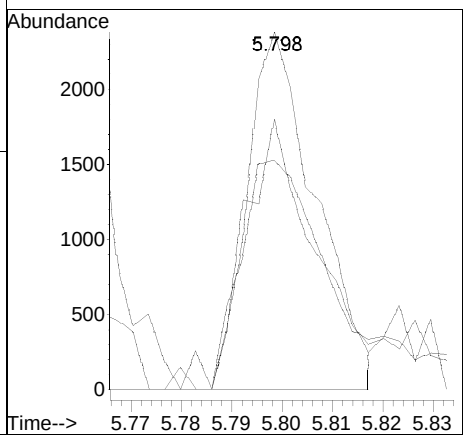


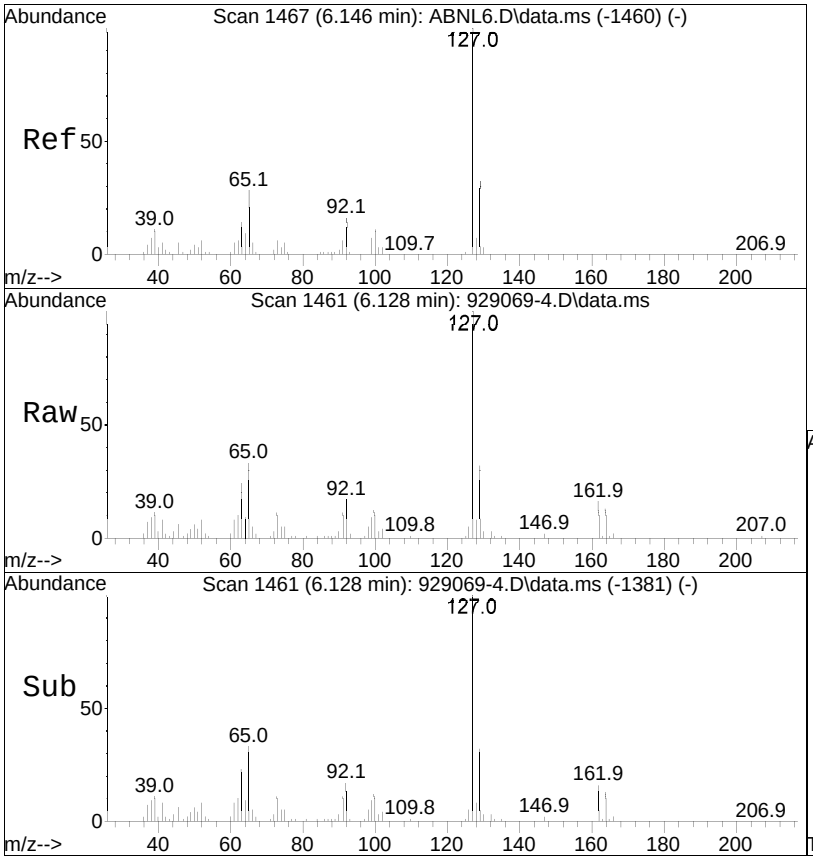


#36
Benzoic Acid
Concen: 1.47 ug/ml
RT: 5.798 min Scan# 1355
Delta R.T. -0.012 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:105 Resp: 2249

Ion	Ratio	Lower	Upper
105	100		
122	90.6	59.9	89.9#
77	84.2	60.1	90.1

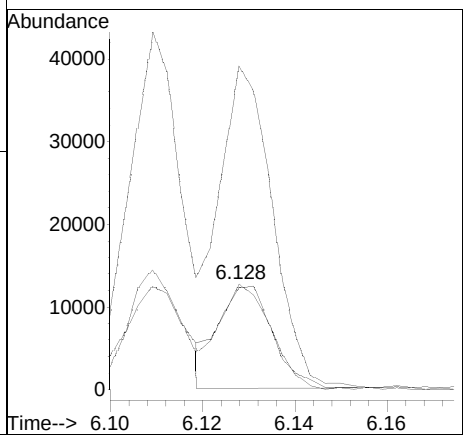


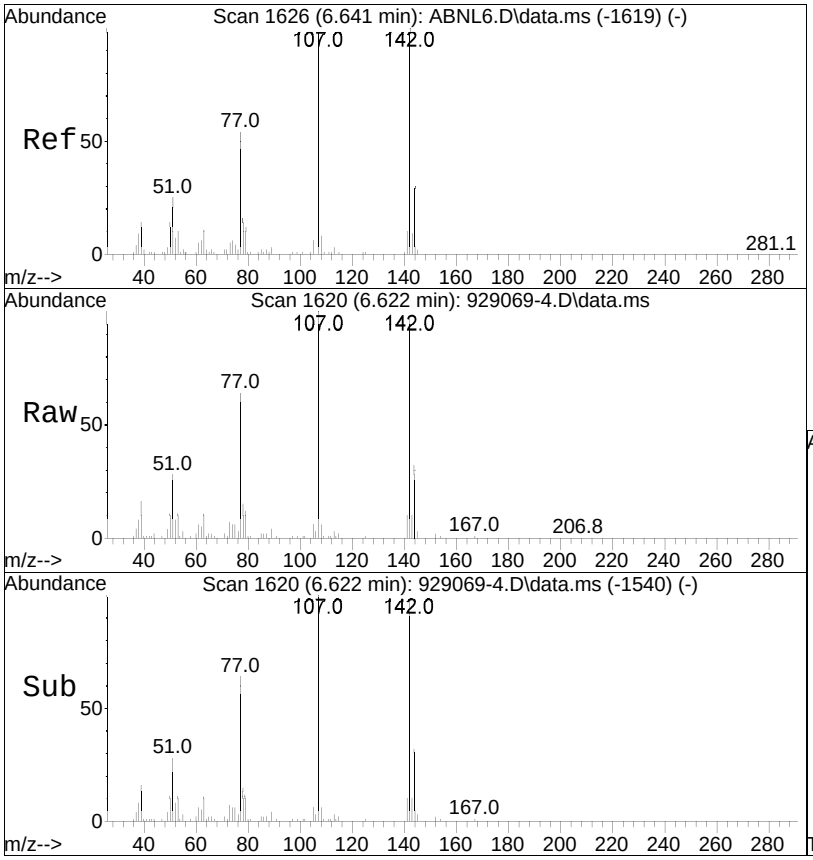


#37
4-Chloroaniline
Concen: 3.64 ug/ml
RT: 6.128 min Scan# 1461
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion: 65 Resp: 10067

Ion	Ratio	Lower	Upper
65	100		
127	311.7	237.6	356.4
129	102.2	76.3	114.5

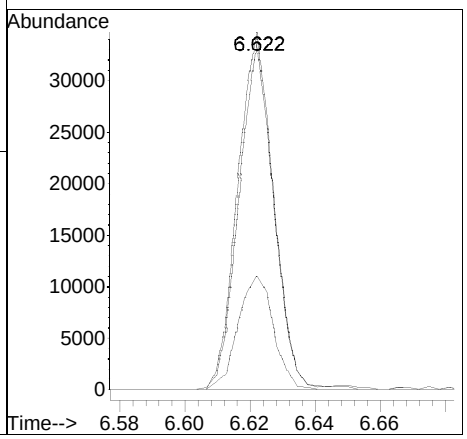


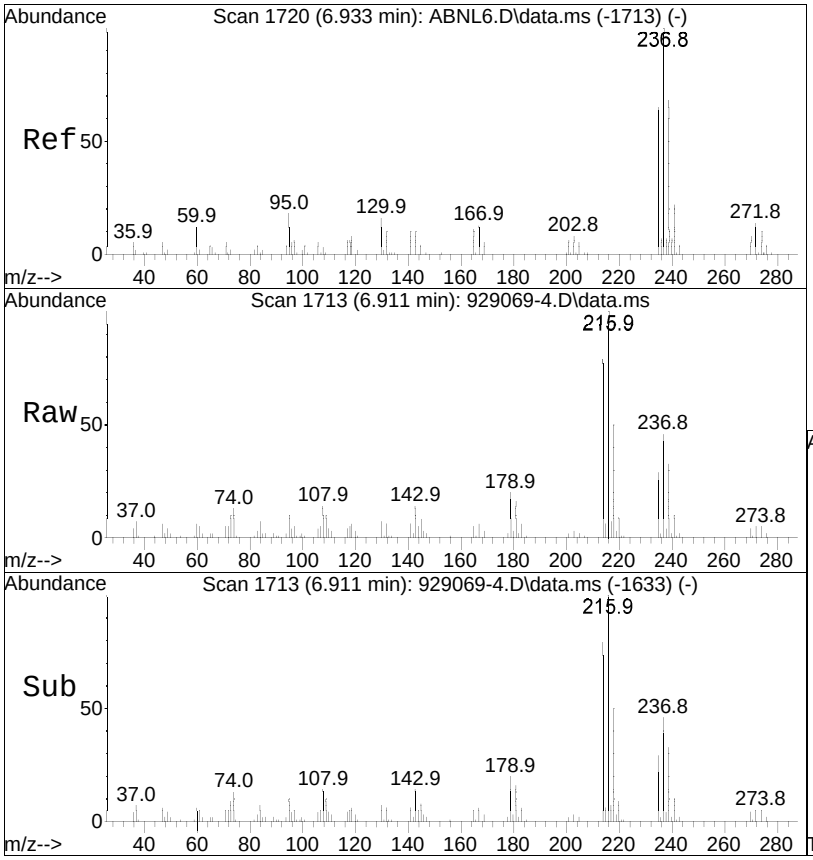


#39
p-Chloro-m-cresol
Concen: 4.31 ug/ml
RT: 6.622 min Scan# 1620
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:107 Resp: 26402

Ion	Ratio	Lower	Upper
107	100		
144	31.4	20.9	31.3#
142	93.0	66.1	99.1

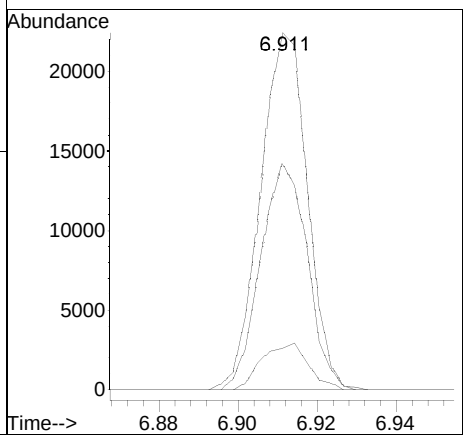


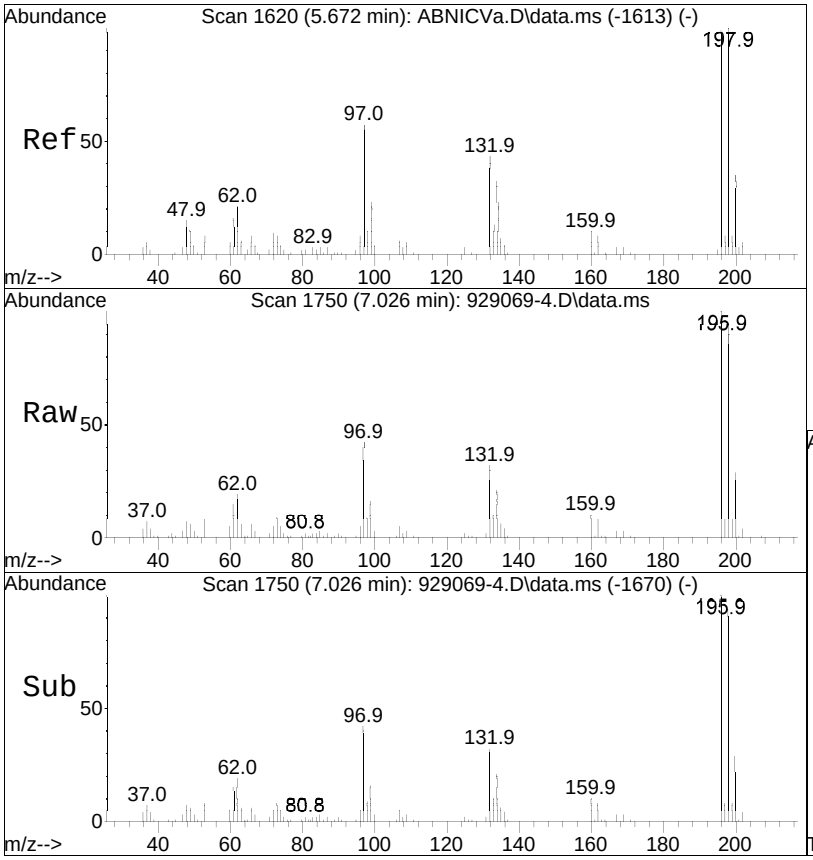


#42
Hexachlorocyclopentadiene
Concen: 3.25 ug/ml
RT: 6.911 min Scan# 1713
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:237 Resp: 18405

Ion	Ratio	Lower	Upper
237	100		
235	63.4	49.7	74.5
272	13.0	9.8	14.6

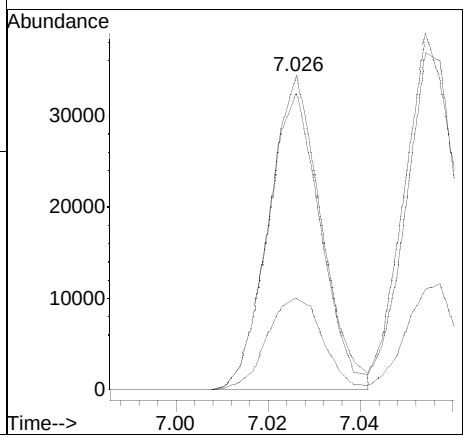


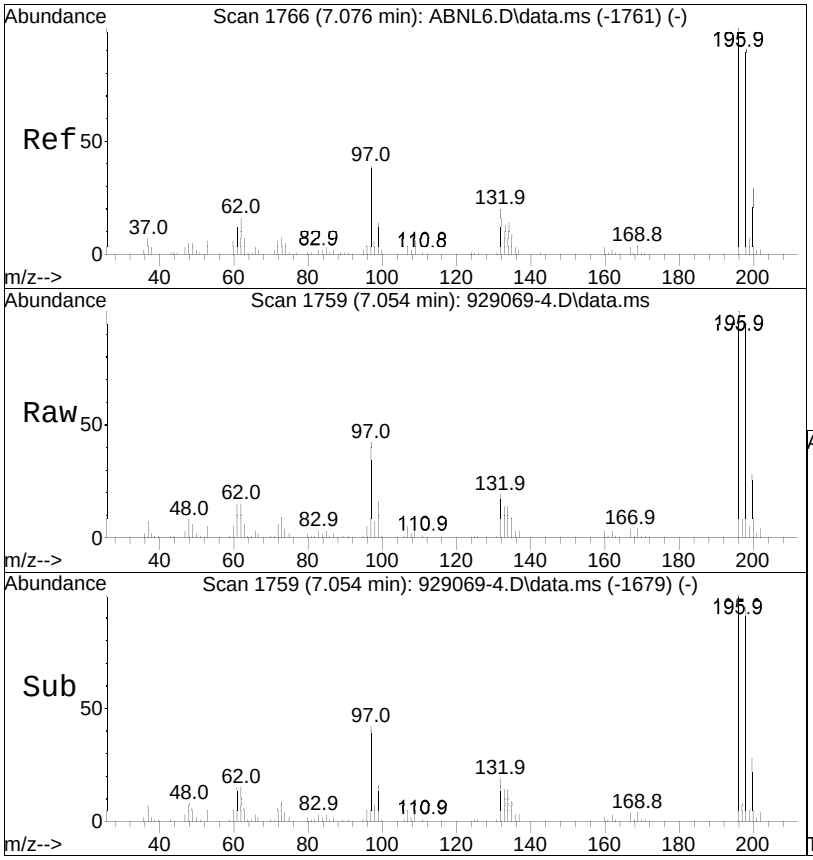


#43
2,4,6-Trichlorophenol
Concen: 4.33 ug/ml
RT: 7.026 min Scan# 1750
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:196 Resp: 27159

Ion	Ratio	Lower	Upper
196	100		
198	95.0	77.5	116.3
200	31.1	23.8	35.6

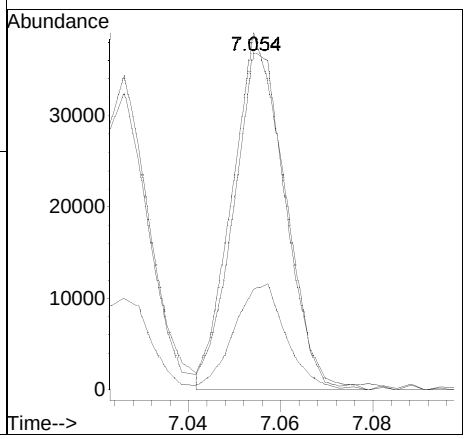


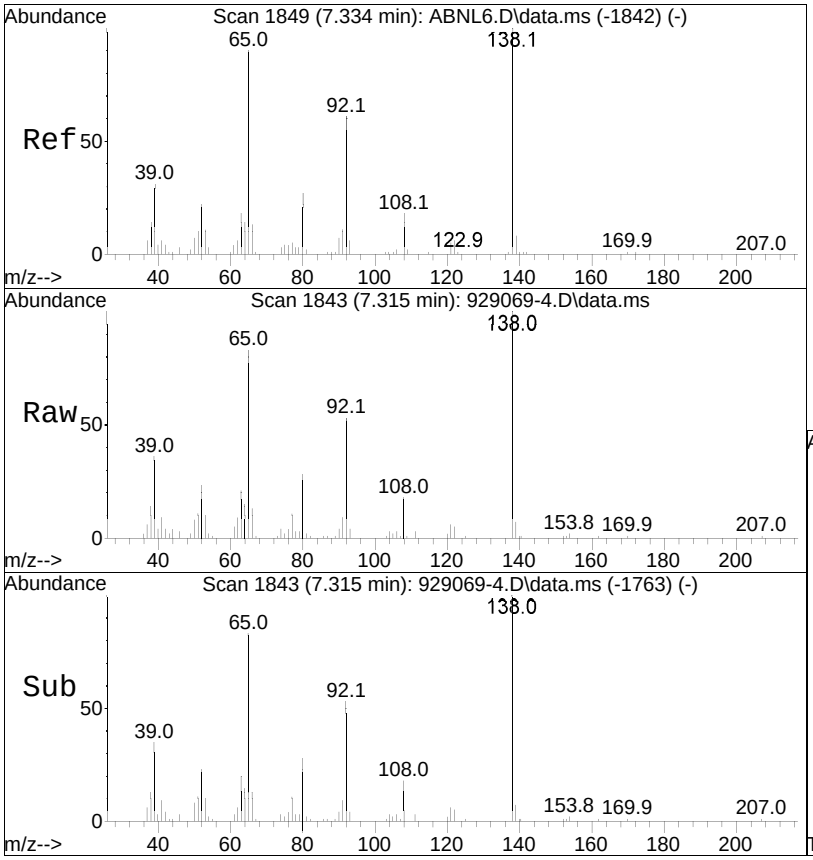


#44
2,4,5-Trichlorophenol
Concen: 4.49 ug/ml
RT: 7.054 min Scan# 1759
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:196 Resp: 30637

Ion	Ratio	Lower	Upper
196	100		
200	29.8	25.4	38.0
198	95.8	78.0	117.0

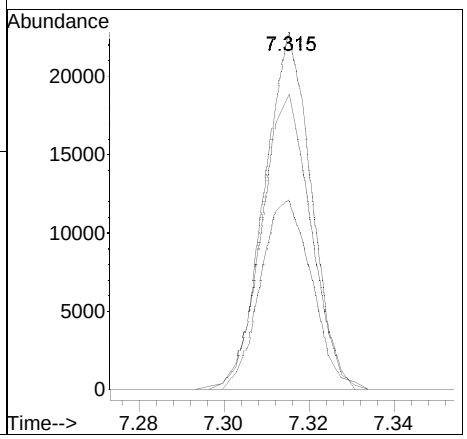


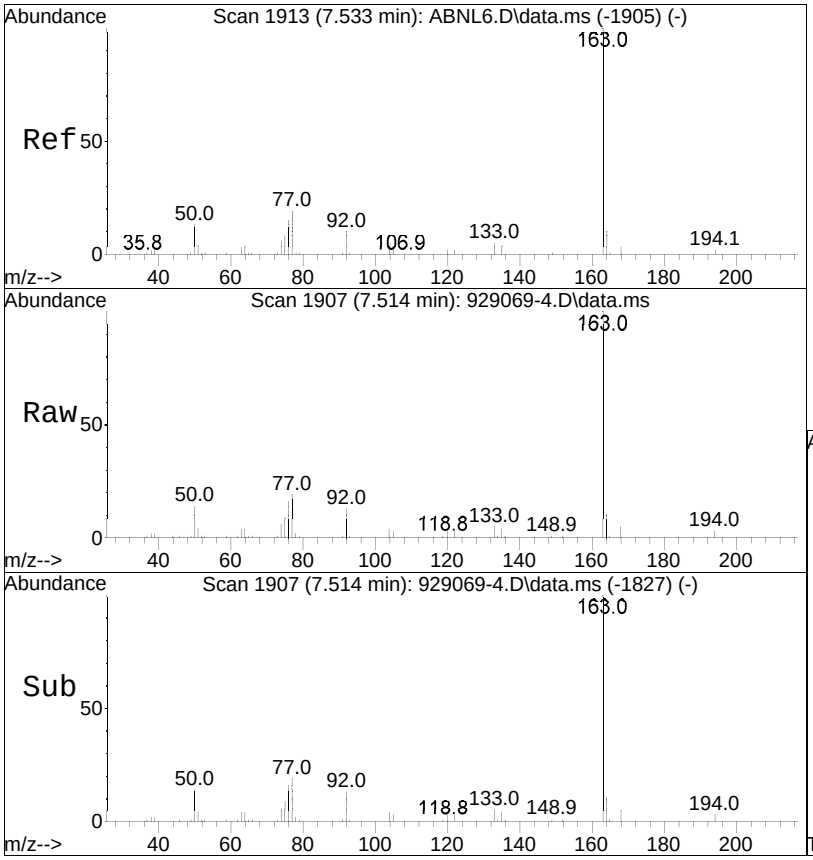


#47
2-Nitroaniline
Concen: 4.15 ug/ml
RT: 7.315 min Scan# 1843
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:138 Resp: 17406

Ion	Ratio	Lower	Upper
138	100		
92	58.1	53.5	80.3
65	86.6	86.3	129.5

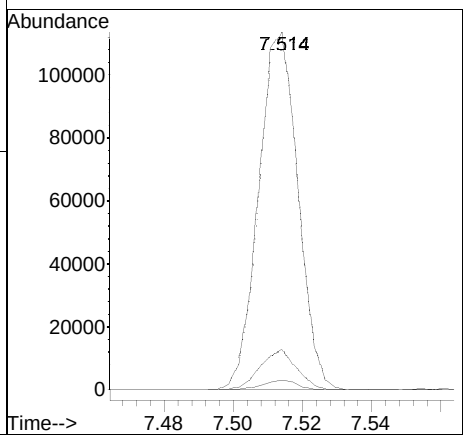


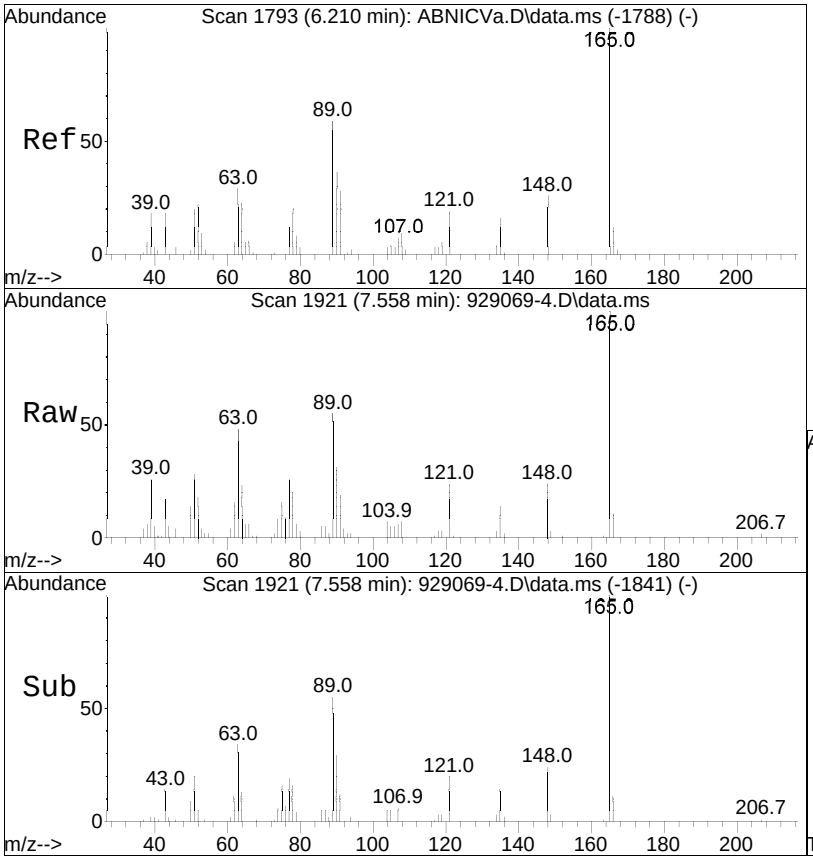


#50
Dimethyl phthalate
Concen: 4.22 ug/ml
RT: 7.514 min Scan# 1907
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:163 Resp: 88808

Ion	Ratio	Lower	Upper
163	100		
194	2.5	3.5	5.3#
164	10.7	7.9	11.9

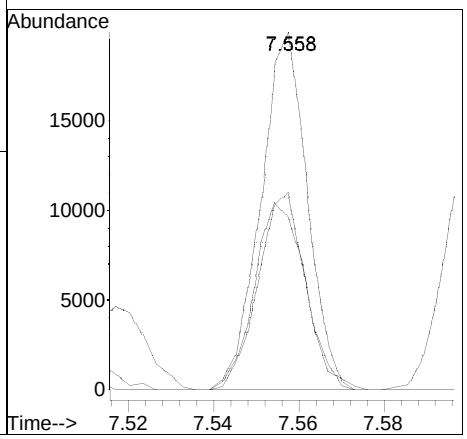


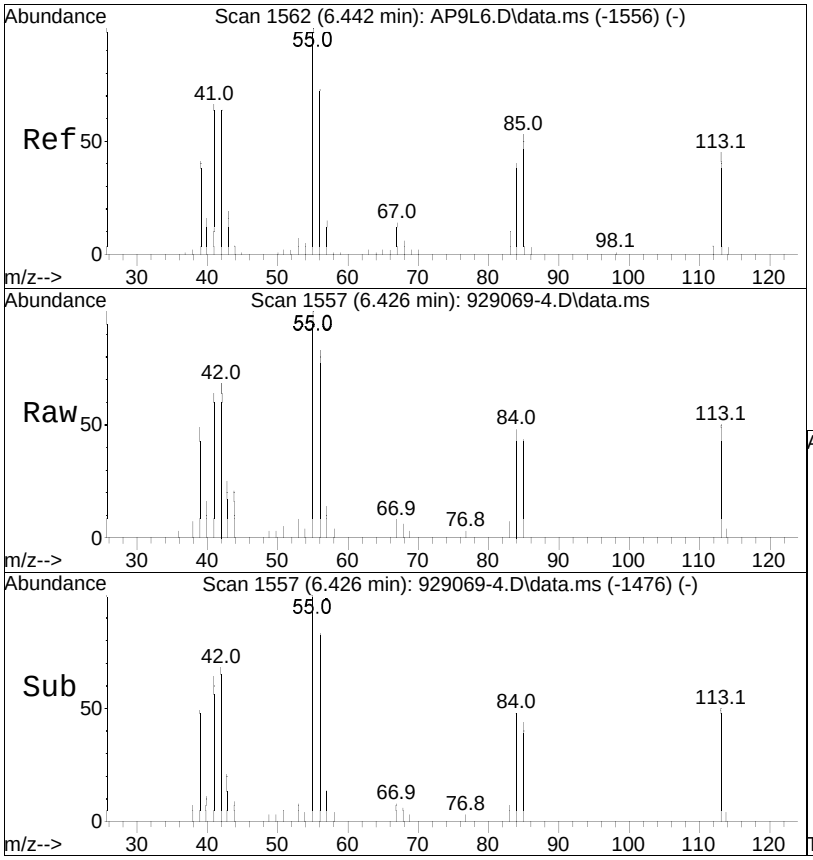


#52
2,6-Dinitrotoluene
Concen: 4.09 ug/ml
RT: 7.558 min Scan# 1921
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:165 Resp: 15111

Ion	Ratio	Lower	Upper
165	100		
89	56.3	54.2	81.2
63	57.4	64.2	96.2#

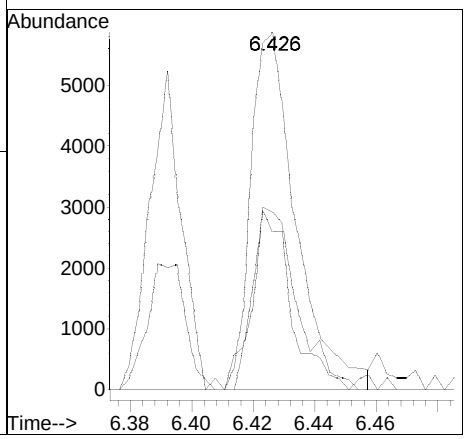


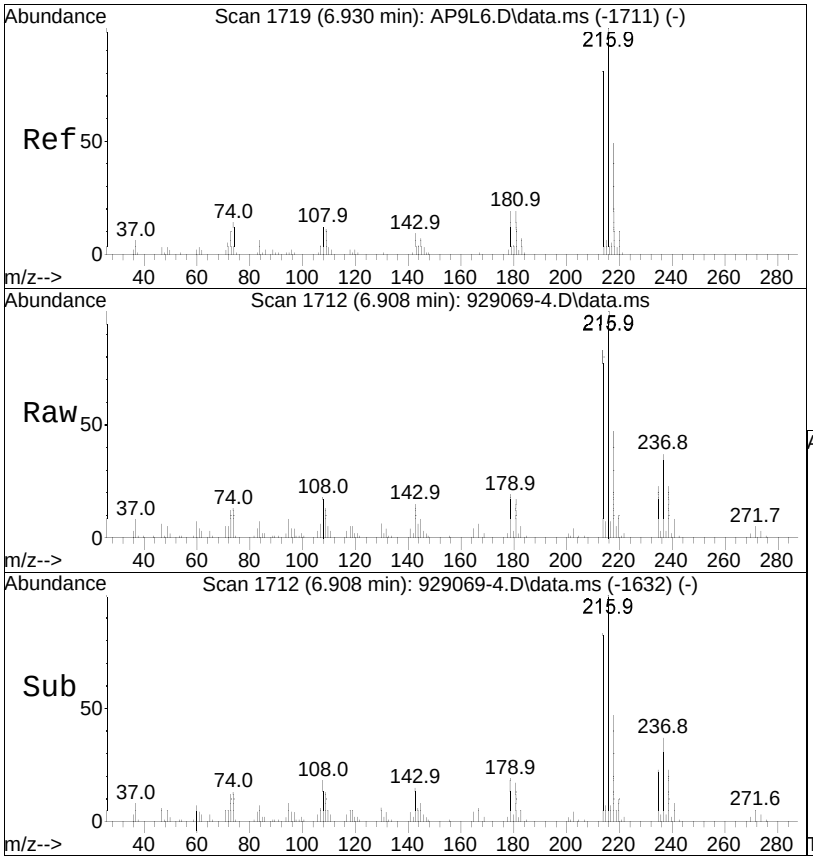


#59
Caprolactam
Concen: 2.00 ug/ml
RT: 6.426 min Scan# 1557
Delta R.T. 0.003 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion: 55 Resp: 6058

Ion	Ratio	Lower	Upper
55	100		
85	44.3	19.8	29.6#
113	48.4	29.6	44.4#

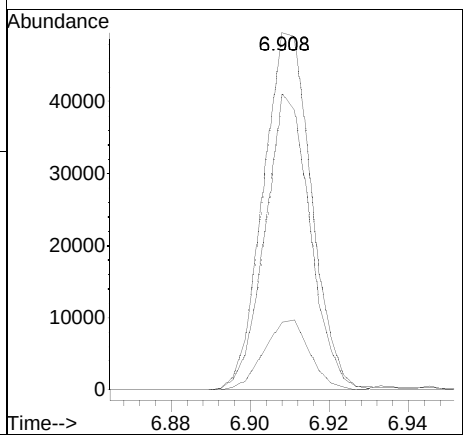


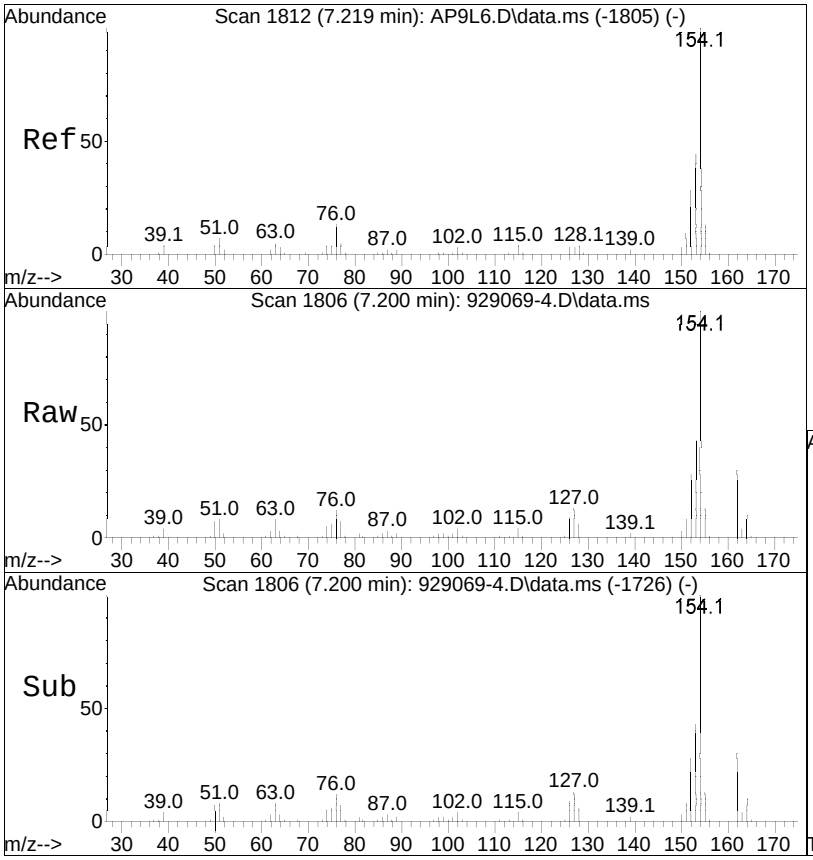


#60
1,2,4,5-Tetrachlorobenzene
Concen: 3.97 ug/ml
RT: 6.908 min Scan# 1712
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:216 Resp: 41846

Ion	Ratio	Lower	Upper
216	100		
214	77.9	63.7	95.5
179	18.6	19.0	28.6#

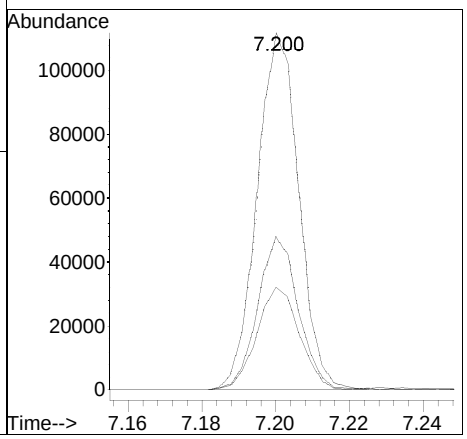


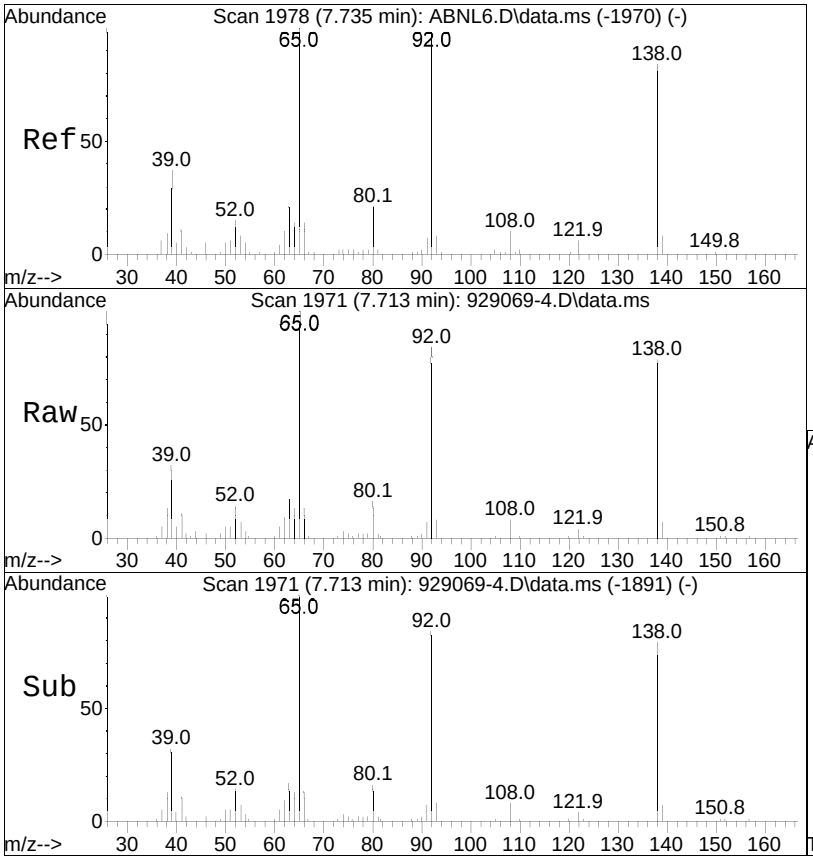


#61
Biphenyl
Concen: 3.98 ug/ml
RT: 7.200 min Scan# 1806
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:154 Resp: 87055

Ion	Ratio	Lower	Upper
154	100		
153	42.3	32.3	48.5
152	29.7	22.5	33.7

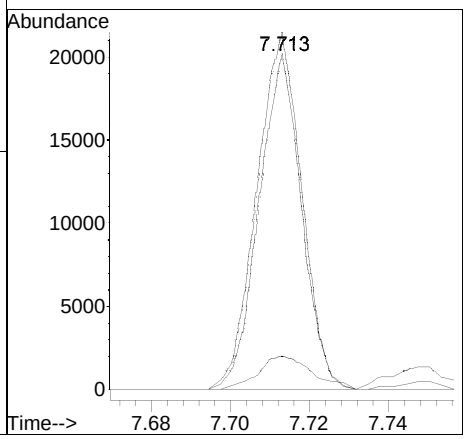


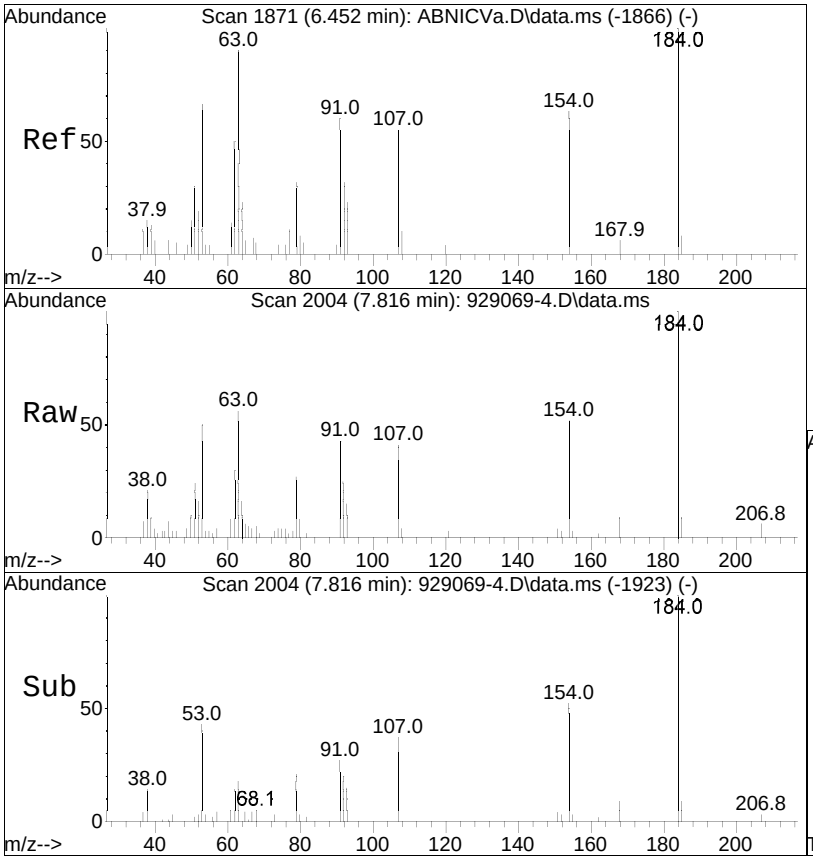


#63
3-Nitroaniline
Concen: 4.20 ug/ml
RT: 7.713 min Scan# 1971
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:138 Resp: 14896

Ion	Ratio	Lower	Upper
138	100		
92	112.6	93.4	140.2
108	12.6	9.5	14.3

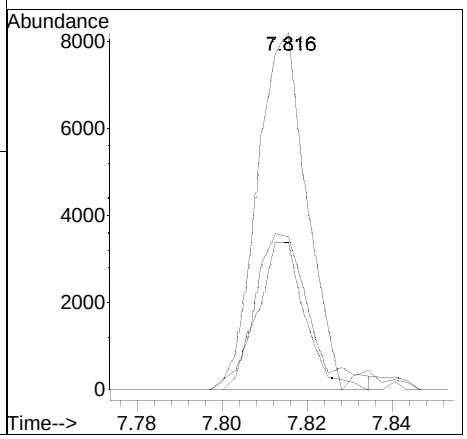


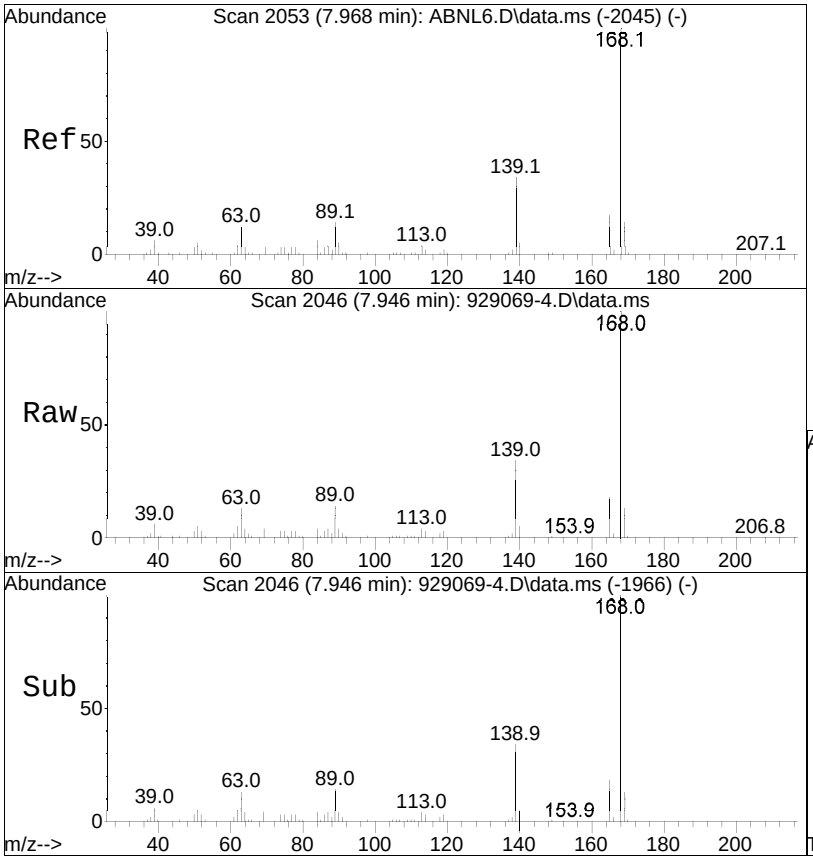


#65
2,4-Dinitrophenol
Concen: 3.58 ug/ml
RT: 7.816 min Scan# 2004
Delta R.T. 0.003 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:184 Resp: 6687

Ion	Ratio	Lower	Upper
184	100		
107	39.0	37.7	56.5
91	49.6	46.3	69.5

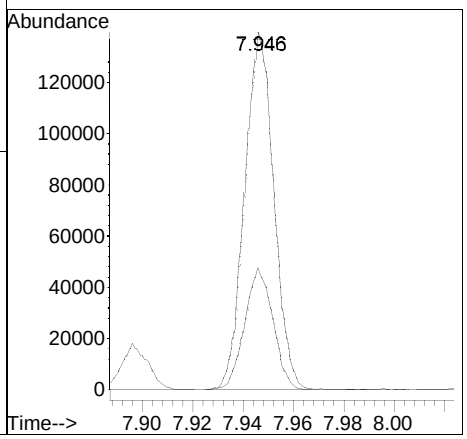


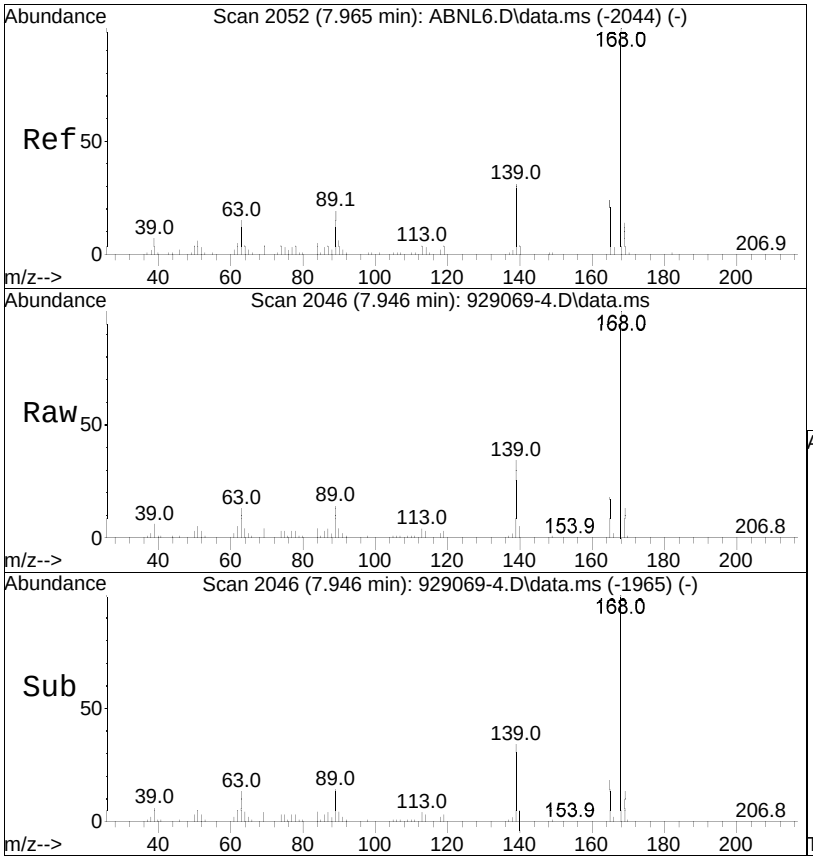


#66
Dibenzofuran
Concen: 4.47 ug/ml
RT: 7.946 min Scan# 2046
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:168 Resp: 111576

Ion	Ratio	Lower	Upper
168	100		
139	33.2	31.4	47.2

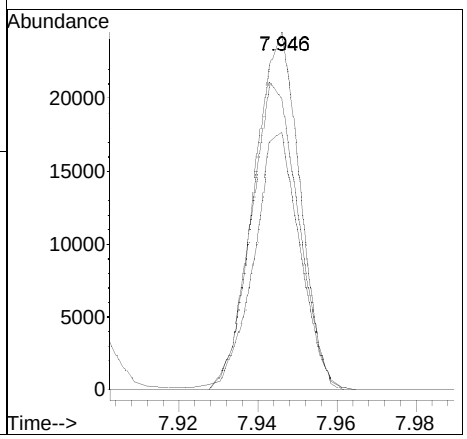


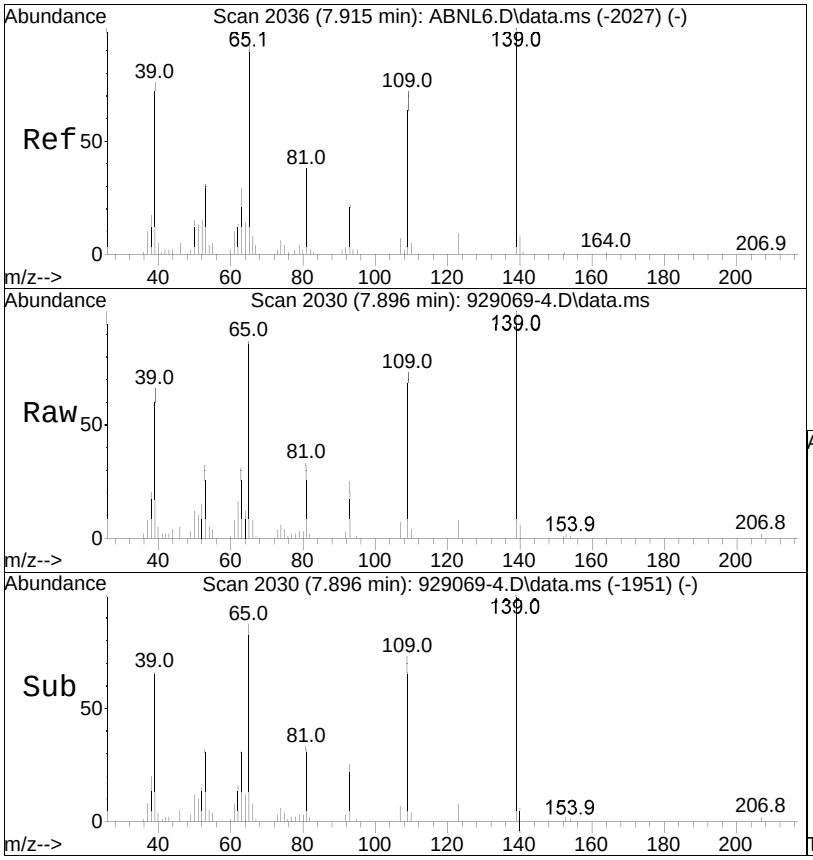


#67
2,4-Dinitrotoluene
Concen: 4.39 ug/ml
RT: 7.946 min Scan# 2046
Delta R.T. 0.003 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:165 Resp: 19687

Ion	Ratio	Lower	Upper
165	100		
89	88.6	72.0	108.0
63	72.7	52.7	79.1

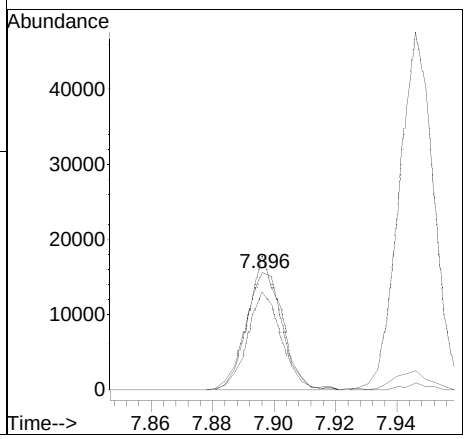


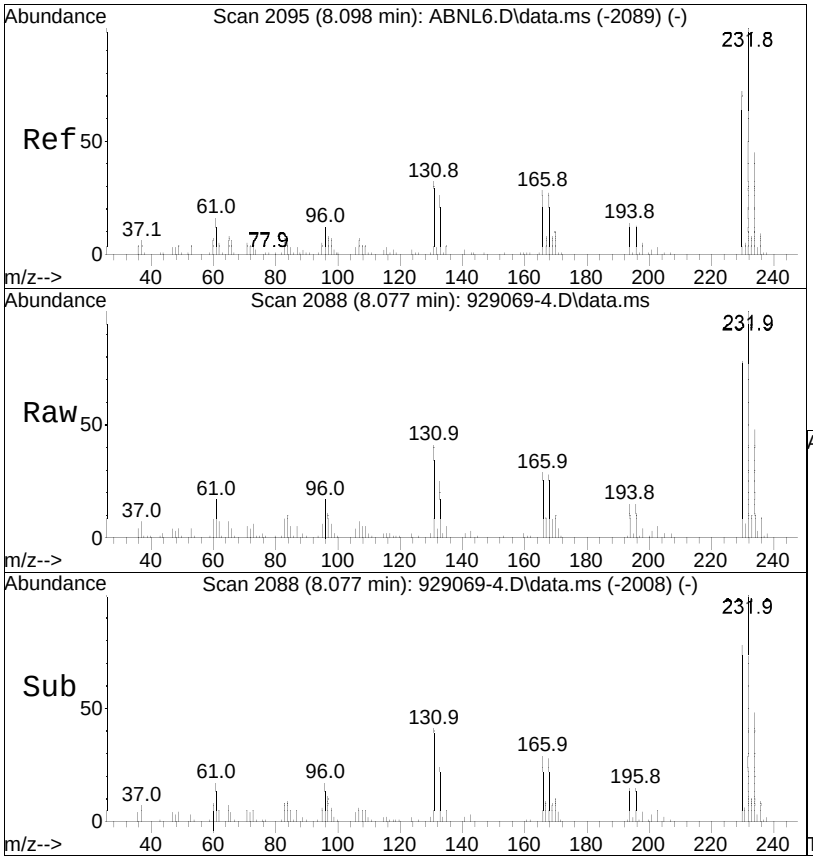


#68
4-Nitrophenol
Concen: 4.26 ug/ml
RT: 7.896 min Scan# 2030
Delta R.T. -0.003 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion: 65 Resp: 13090

Ion	Ratio	Lower	Upper
65	100		
109	76.3	47.4	71.2#
139	101.2	76.6	115.0

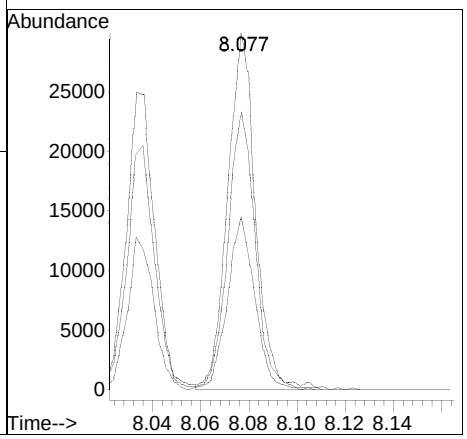


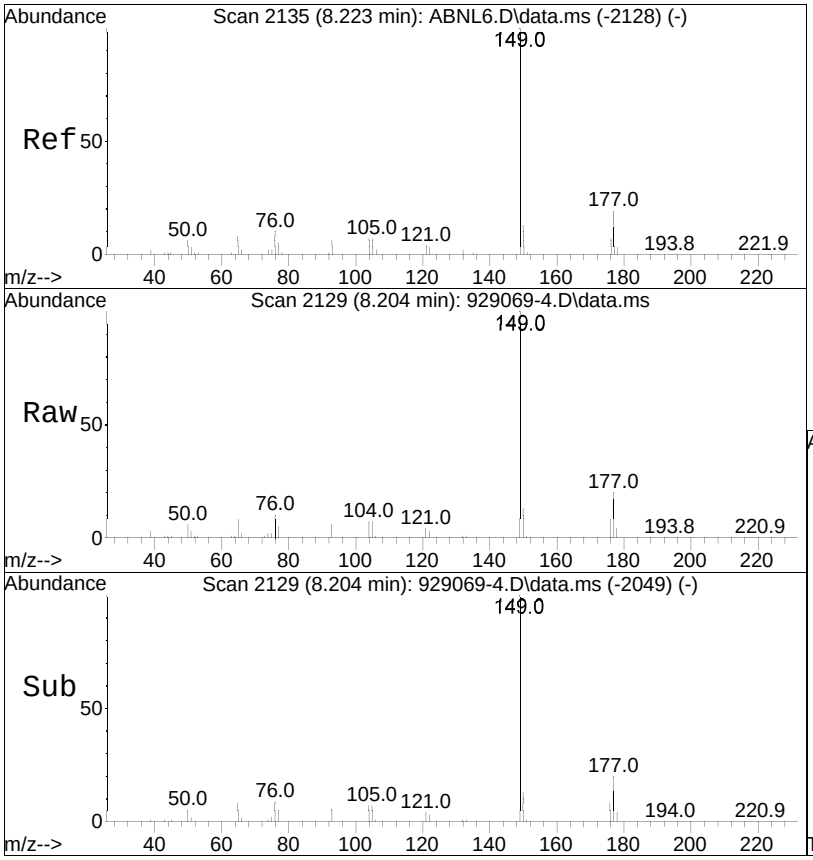


#70
2,3,4,6-Tetrachlorophenol
Concen: 4.55 ug/ml
RT: 8.077 min Scan# 2088
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:232 Resp: 24272

Ion	Ratio	Lower	Upper
232	100		
230	76.4	61.8	92.8
234	47.6	36.2	54.2

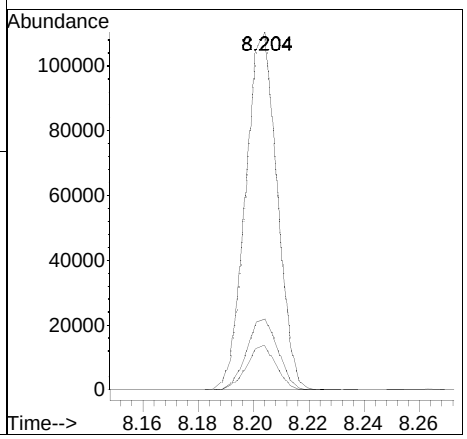


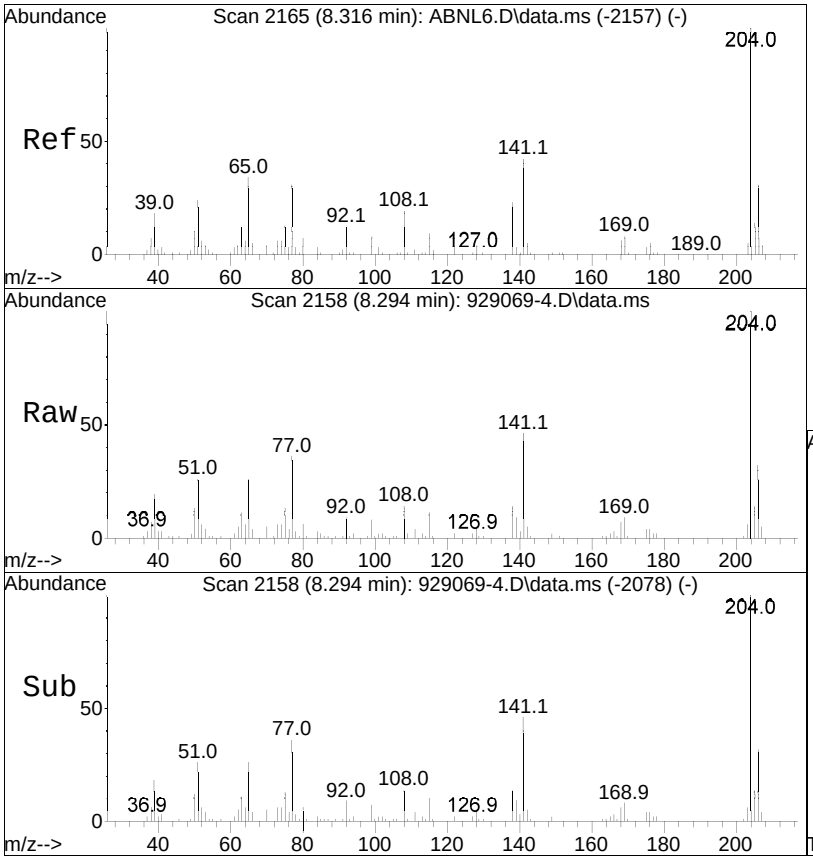


#71
Diethyl phthalate
Concen: 4.23 ug/ml
RT: 8.204 min Scan# 2129
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:149 Resp: 86493

Ion	Ratio	Lower	Upper
149	100		
177	20.0	16.1	24.1
150	11.9	9.4	14.2

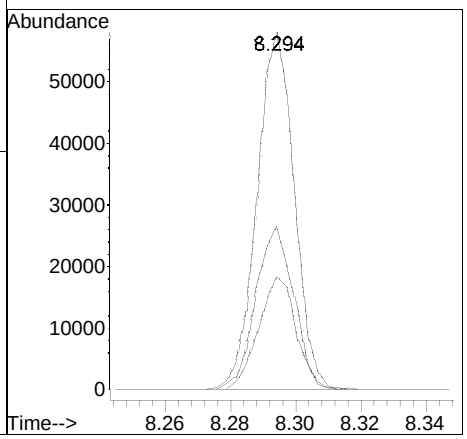


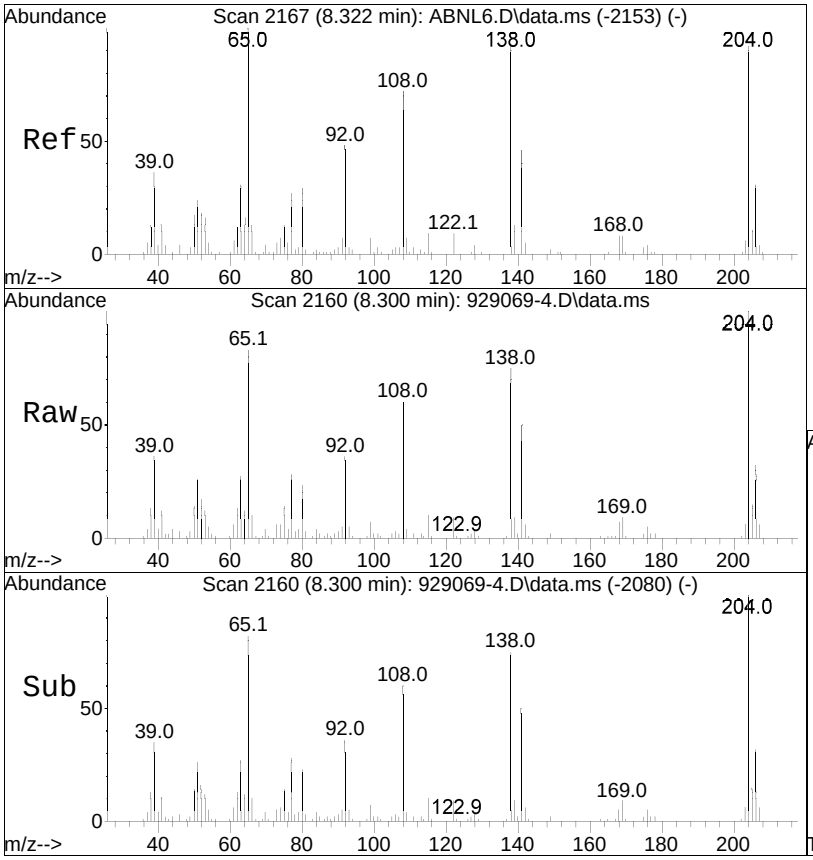


#73
4-Chlorophenyl phenyl ether
Concen: 4.33 ug/ml
RT: 8.294 min Scan# 2158
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:204 Resp: 45661

Ion	Ratio	Lower	Upper
204	100		
206	31.8	25.8	38.6
141	46.9	53.6	80.4#

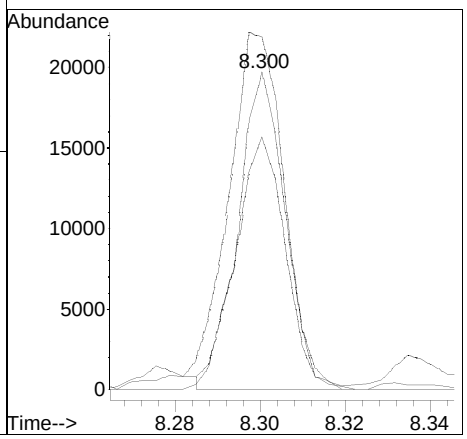


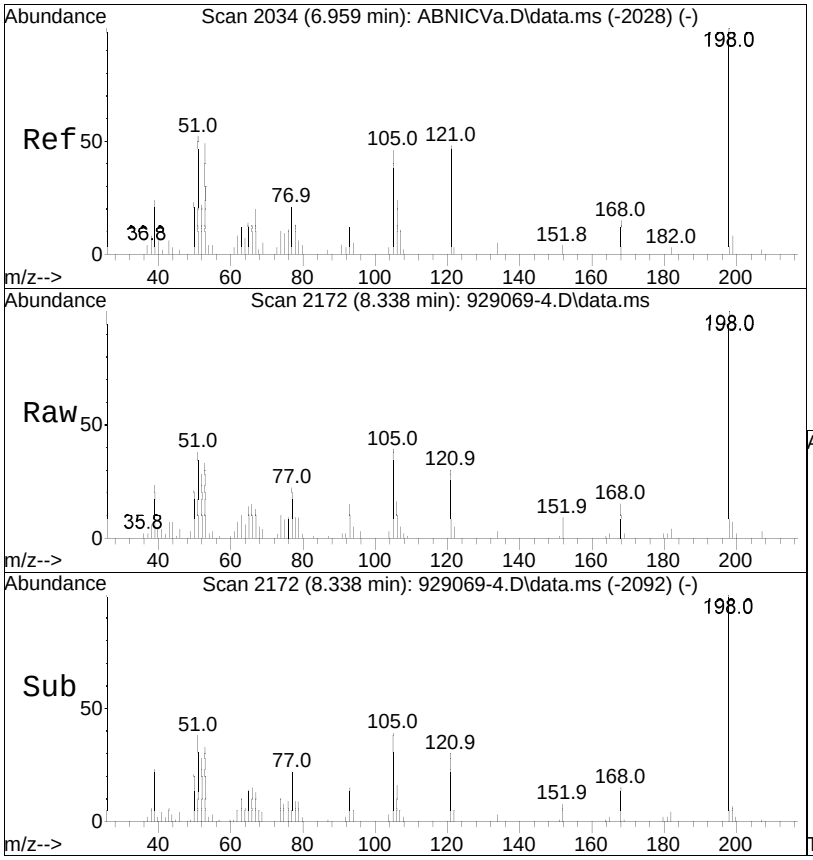


#74
4-Nitroaniline
Concen: 4.00 ug/ml
RT: 8.300 min Scan# 2160
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:138 Resp: 15116

Ion	Ratio	Lower	Upper
138	100		
108	84.6	52.1	78.1#
65	137.3	115.0	172.6

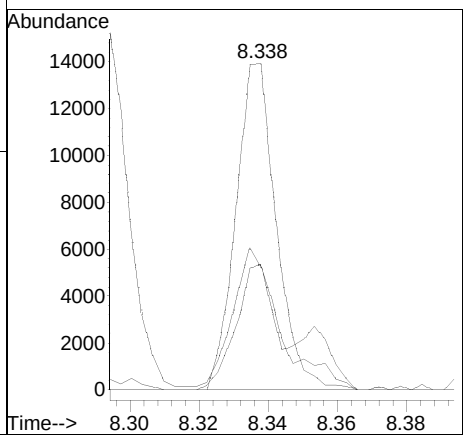


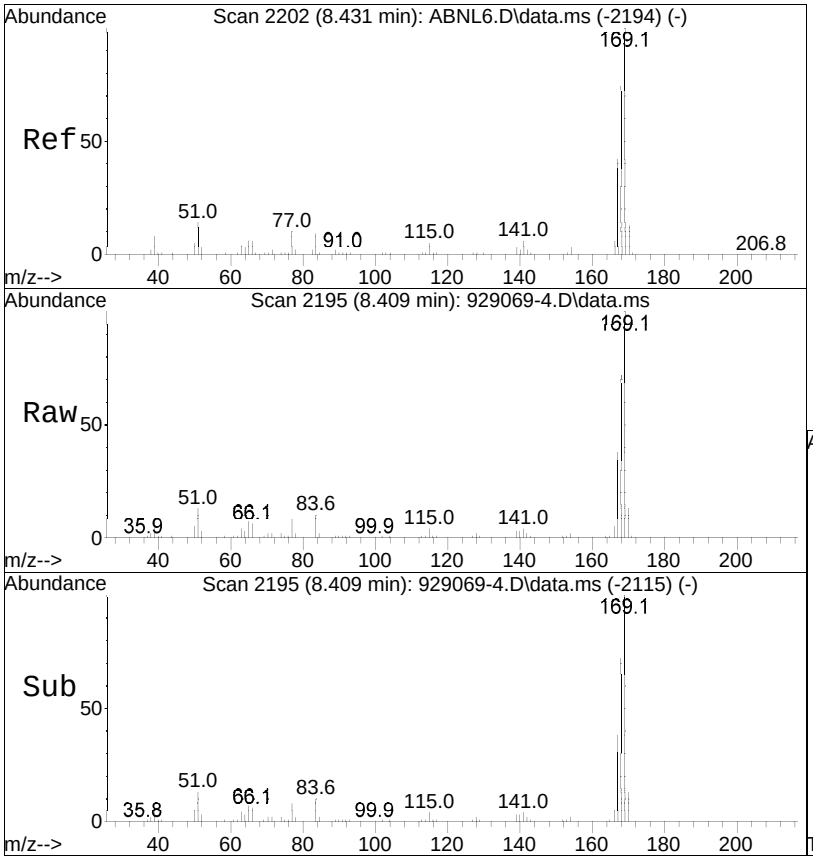


#75
4,6-Dinitro-o-cresol
Concen: 4.31 ug/ml
RT: 8.338 min Scan# 2172
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:198 Resp: 11343

Ion	Ratio	Lower	Upper
198	100		
51	51.2	76.0	114.0#
105	38.6	45.6	68.4#

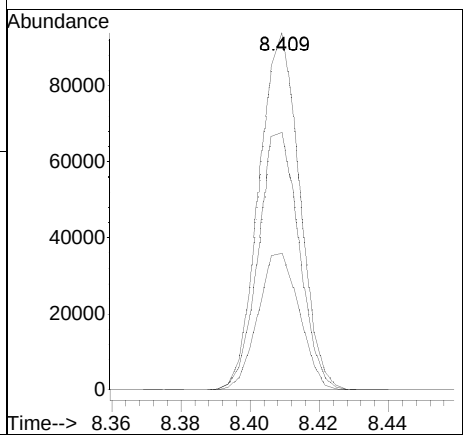


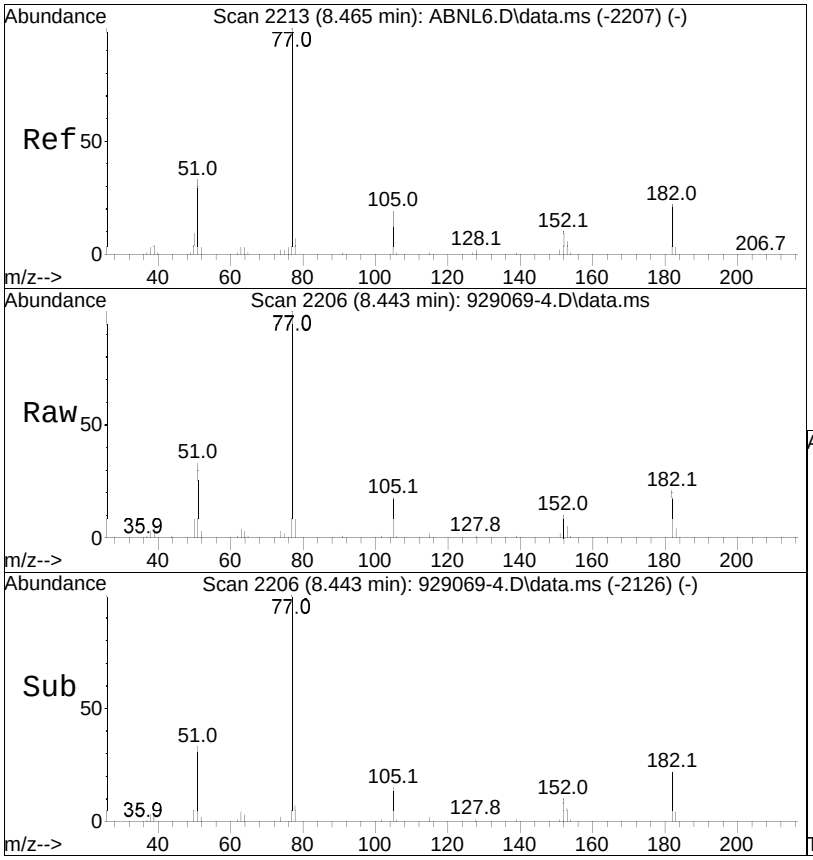


#76
NDPA/DPA
Concen: 4.45 ug/ml
RT: 8.409 min Scan# 2195
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:169 Resp: 76256

Ion	Ratio	Lower	Upper
169	100		
168	72.7	54.0	81.0
167	39.2	28.6	42.8

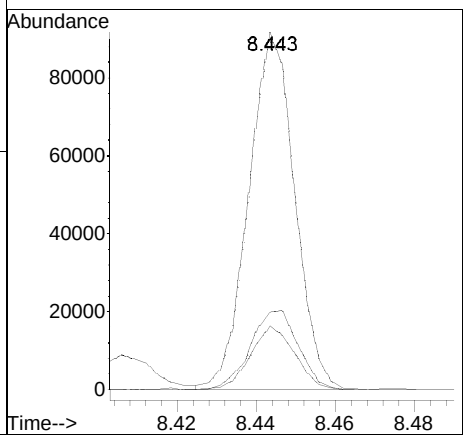


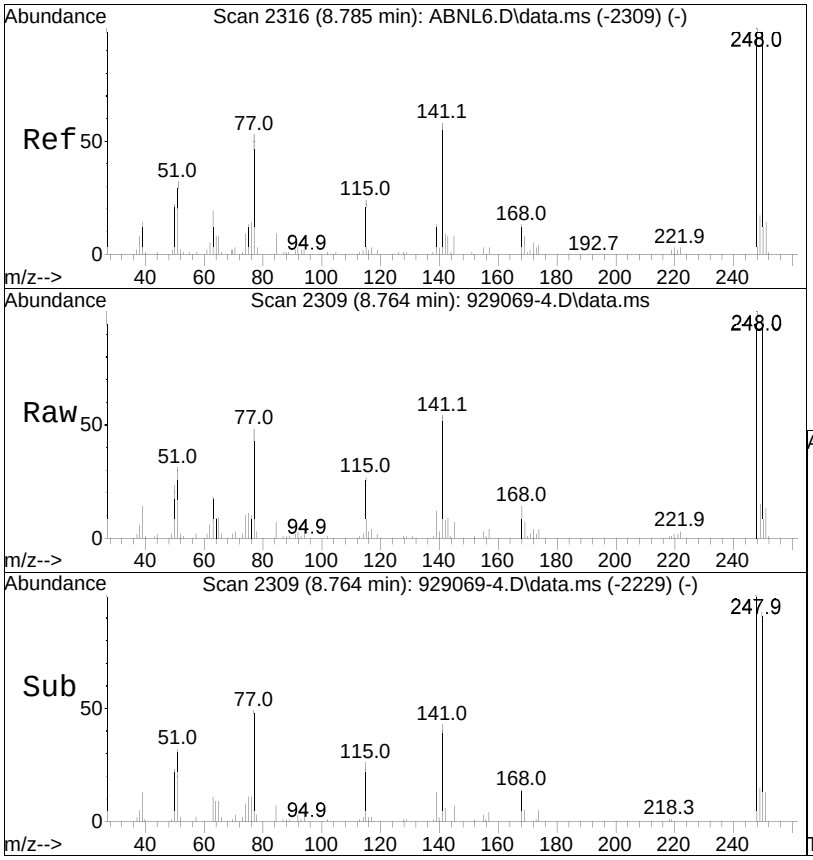


#77
Azobenzene
Concen: 4.29 ug/ml
RT: 8.443 min Scan# 2206
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion: 77 Resp: 73536

Ion	Ratio	Lower	Upper
77	100		
182	23.4	17.4	26.2
105	17.4	15.4	23.2

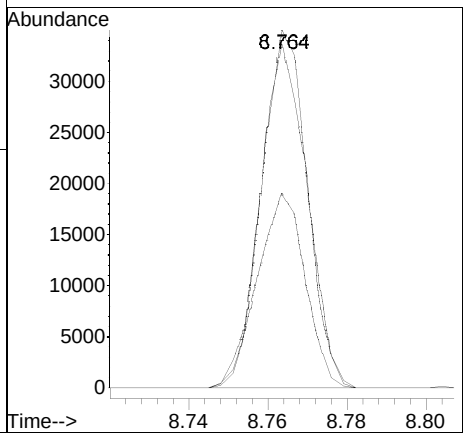


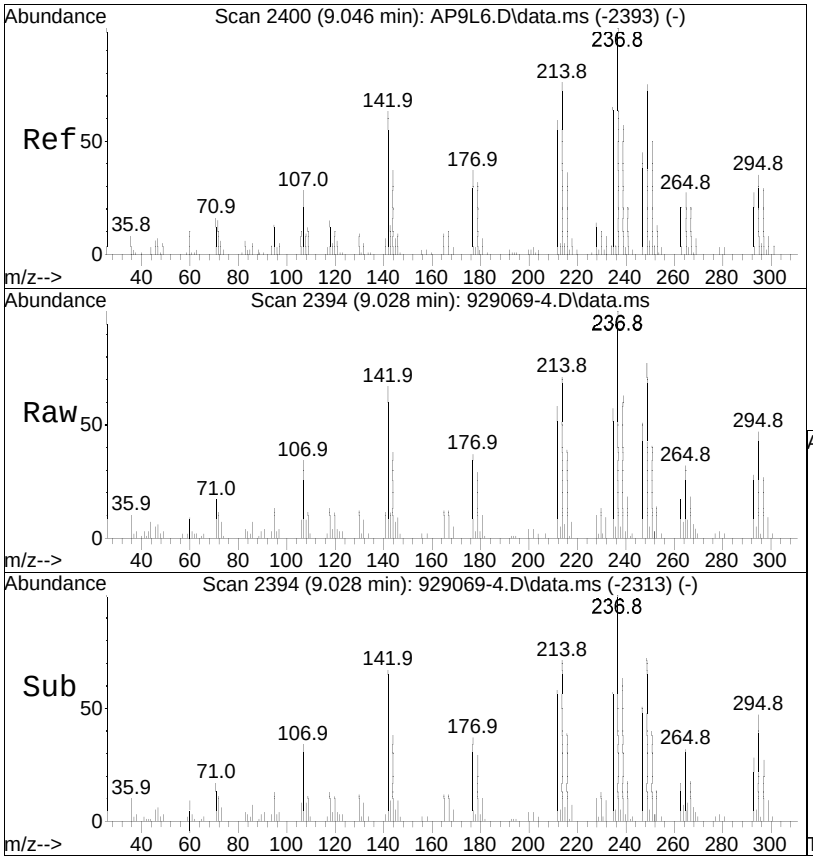


#79
4-Bromophenyl phenyl ether
Concen: 4.38 ug/ml
RT: 8.764 min Scan# 2309
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:248 Resp: 28656

Ion	Ratio	Lower	Upper
248	100		
141	55.0	76.6	114.8#
250	94.7	77.3	115.9

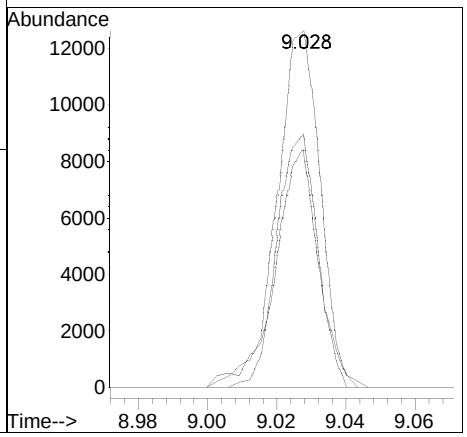


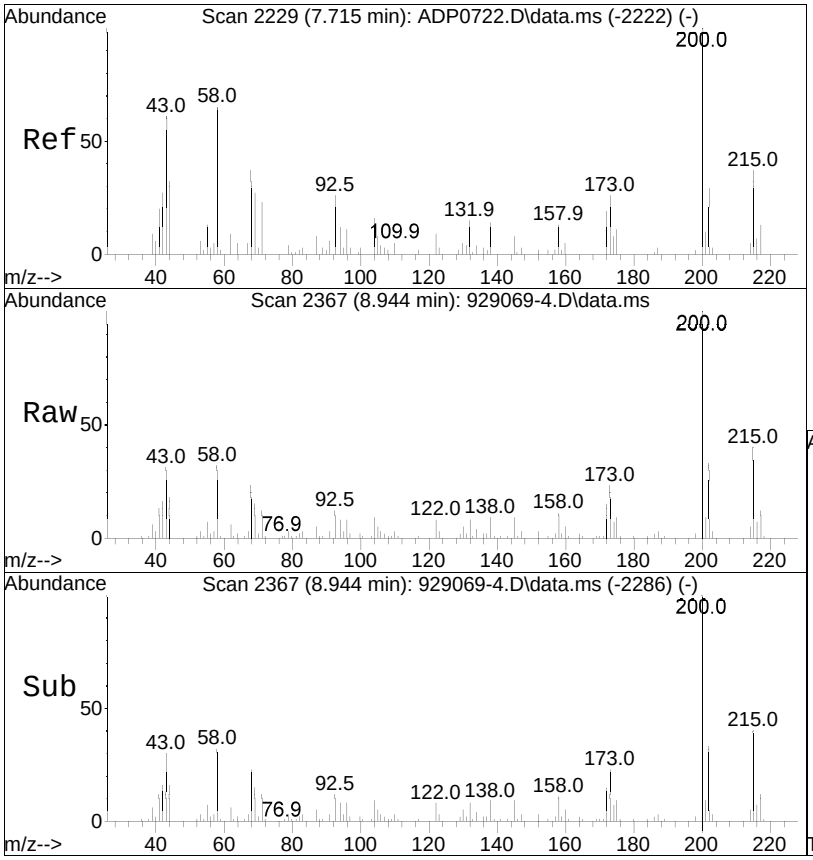


#84
Pentachloronitrobenzene
Concen: 4.58 ug/ml
RT: 9.028 min Scan# 2394
Delta R.T. 0.003 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:237 Resp: 11021

Ion	Ratio	Lower	Upper
237	100		
142	66.8	77.0	115.4#
214	66.2	58.2	87.4

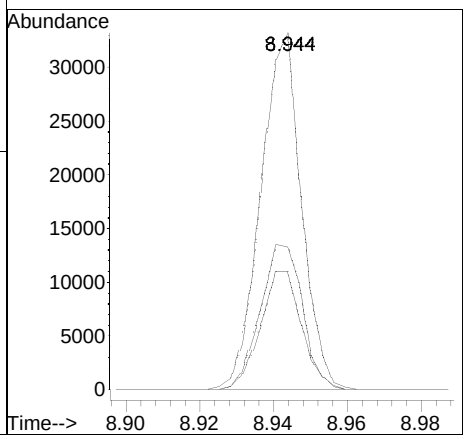


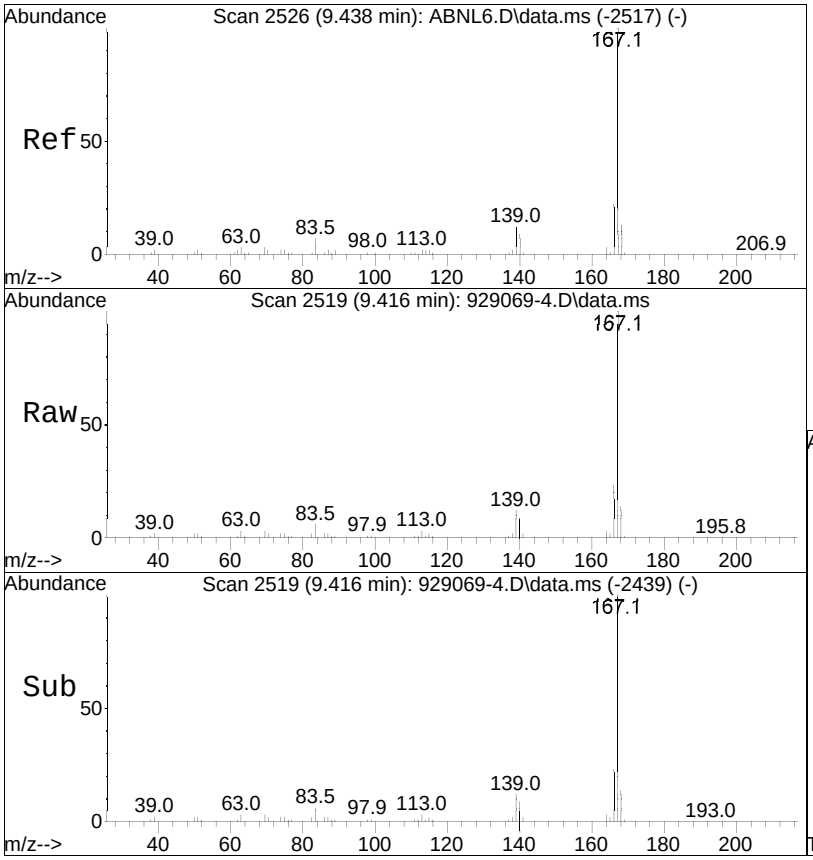


#86
Atrazine
Concen: 3.97 ug/ml
RT: 8.944 min Scan# 2367
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:200 Resp: 25191

Ion	Ratio	Lower	Upper
200	100		
202	33.8	25.8	38.6
215	42.4	40.2	60.4

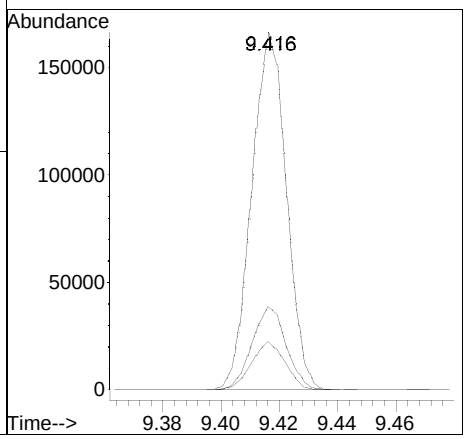


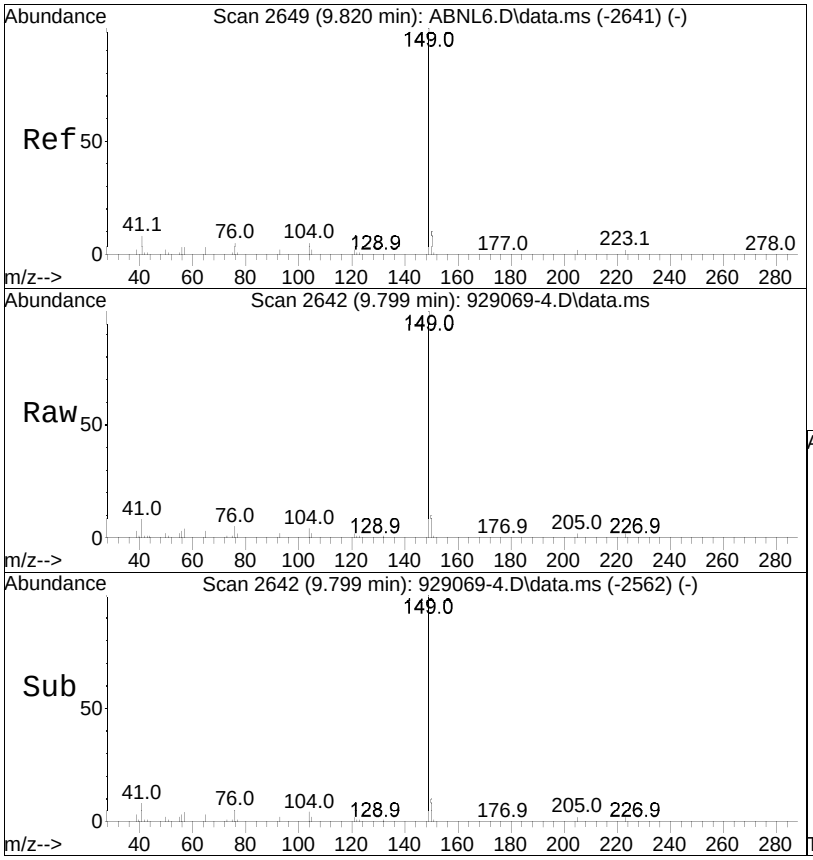


#90
Carbazole
Concen: 4.42 ug/ml
RT: 9.416 min Scan# 2519
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:167 Resp: 136403

Ion	Ratio	Lower	Upper
167	100		
168	13.3	10.6	15.8
166	23.1	17.4	26.0

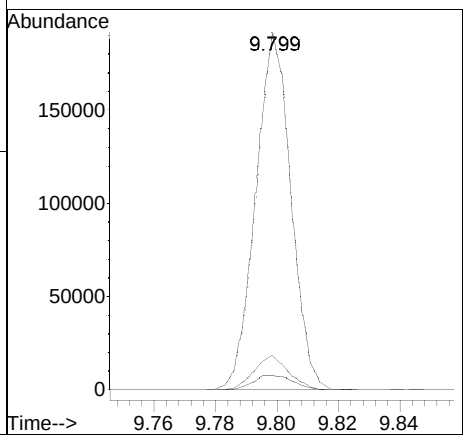


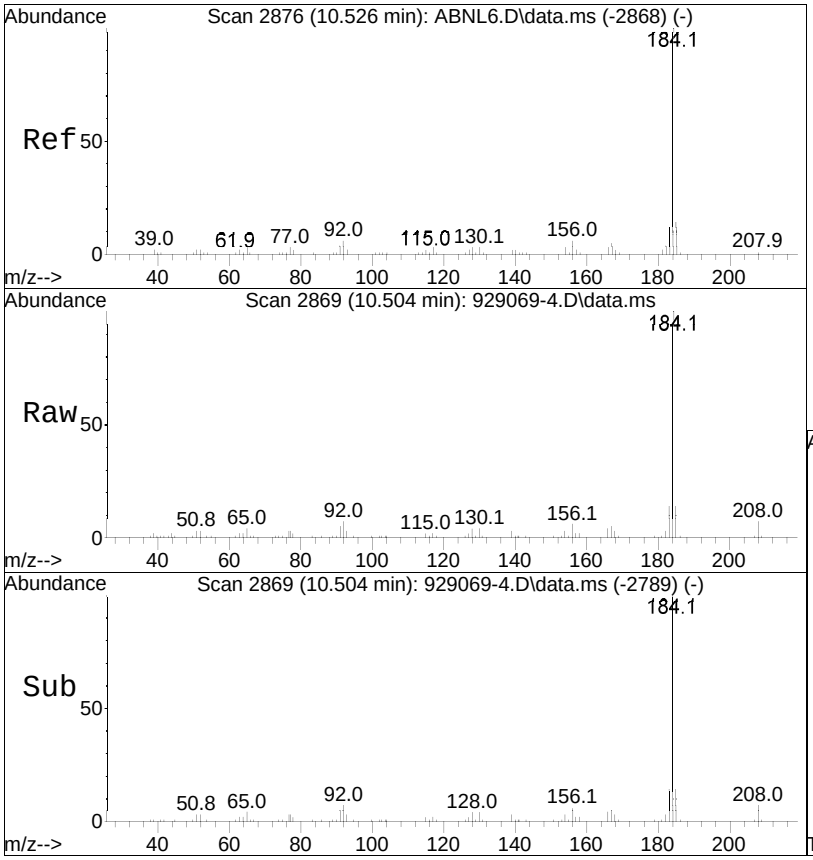


#91
Di-n-butylphthalate
Concen: 4.47 ug/ml
RT: 9.799 min Scan# 2642
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:149 Resp: 150217

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.0	10.6
104	4.8	4.5	6.7

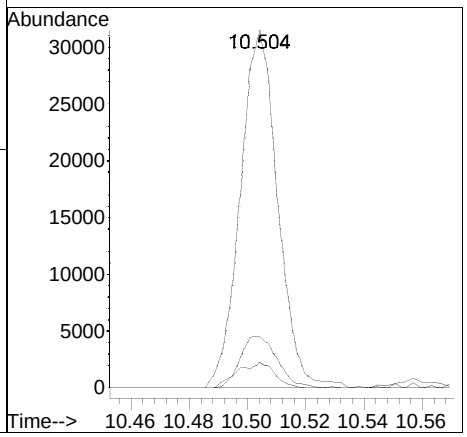


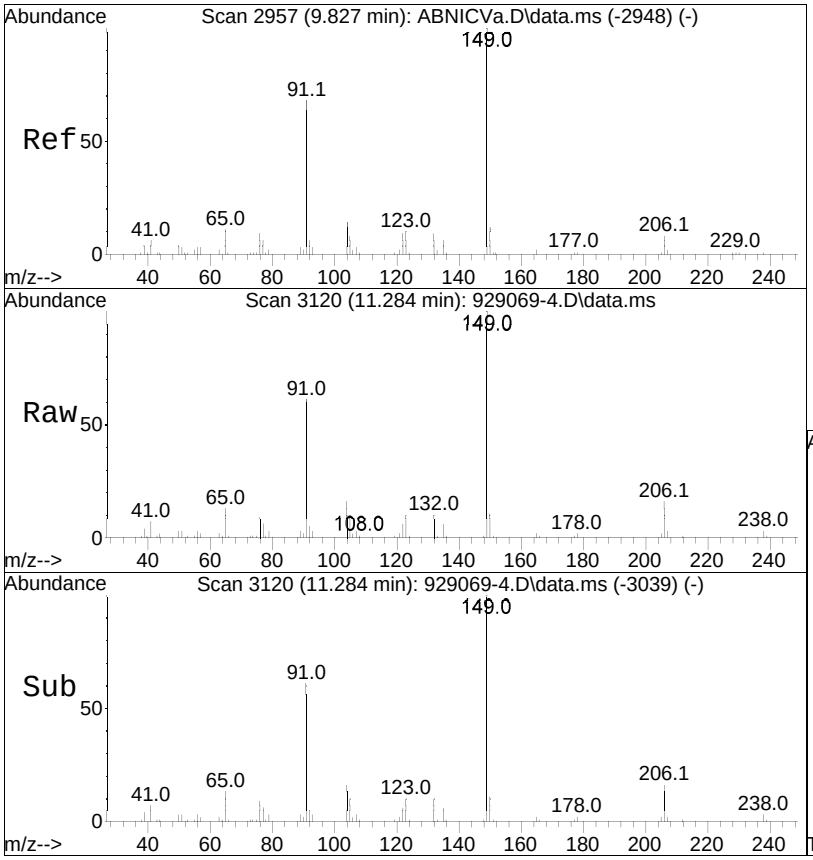


#93
Benzidine
Concen: 1.17 ug/ml
RT: 10.504 min Scan# 2869
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:184 Resp: 27814

Ion	Ratio	Lower	Upper
184	100		
92	6.9	9.1	13.7#
185	14.7	11.1	16.7

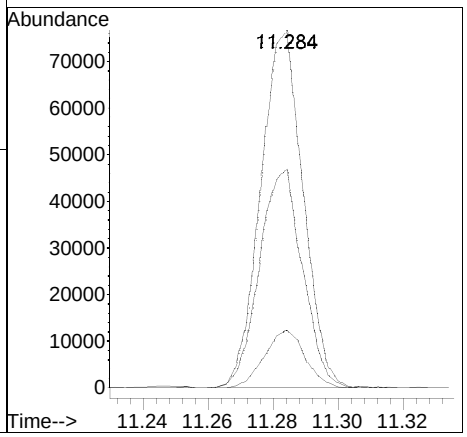


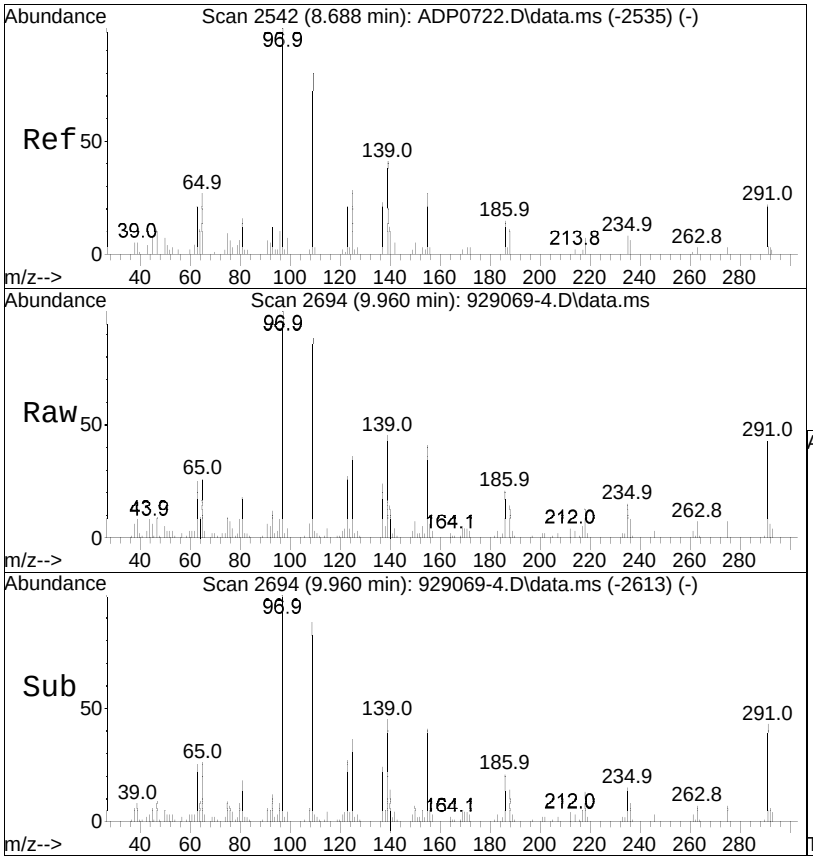


#96
Butyl benzyl phthalate
Concen: 4.46 ug/ml
RT: 11.284 min Scan# 3120
Delta R.T. 0.003 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:149 Resp: 68667

Ion	Ratio	Lower	Upper
149	100		
91	62.5	63.3	94.9#
206	15.5	13.9	20.9

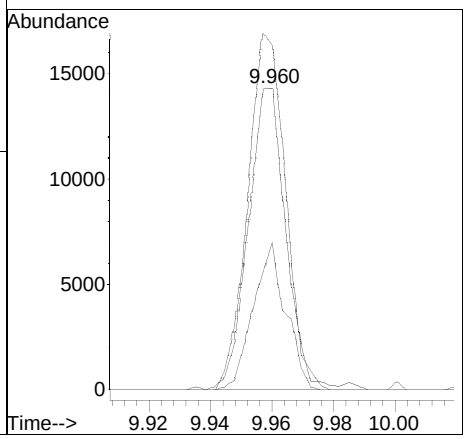


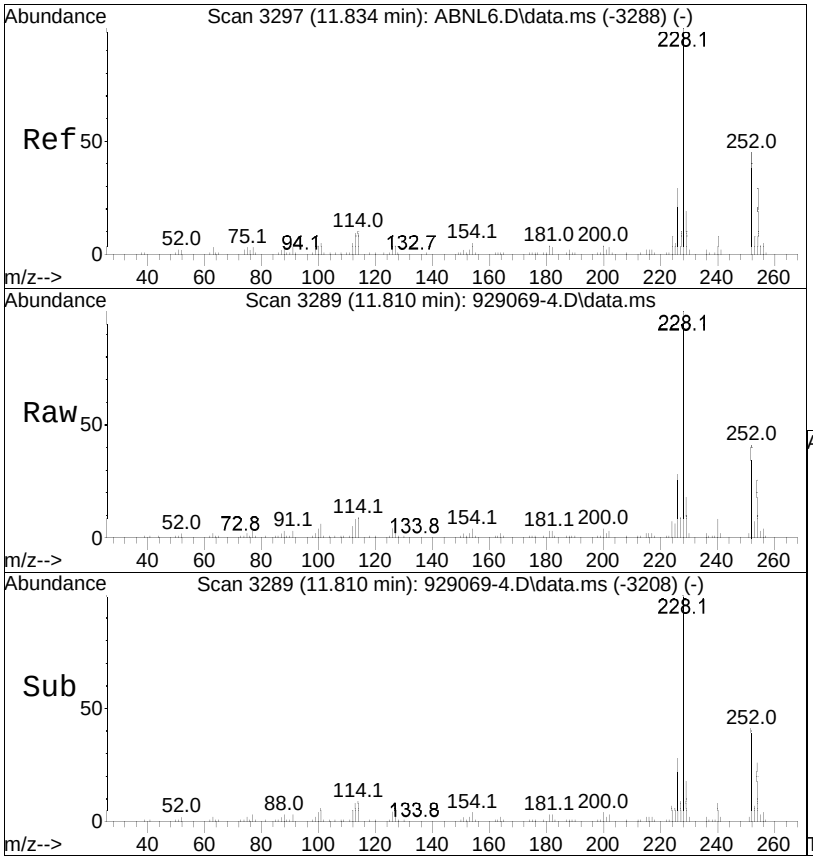


#101
Parathion
Concen: 4.84 ug/ml
RT: 9.960 min Scan# 2694
Delta R.T. 0.003 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:109 Resp: 12138

Ion	Ratio	Lower	Upper
109	100		
97	118.1	87.4	131.2
291	42.1	34.2	51.2

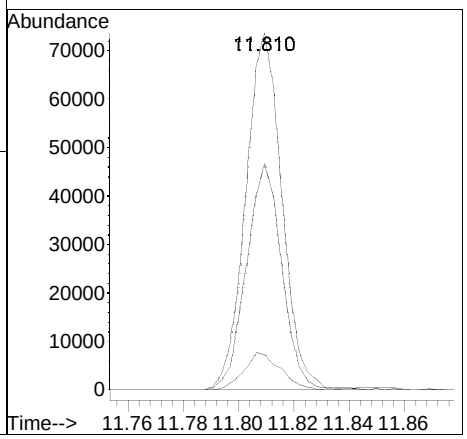


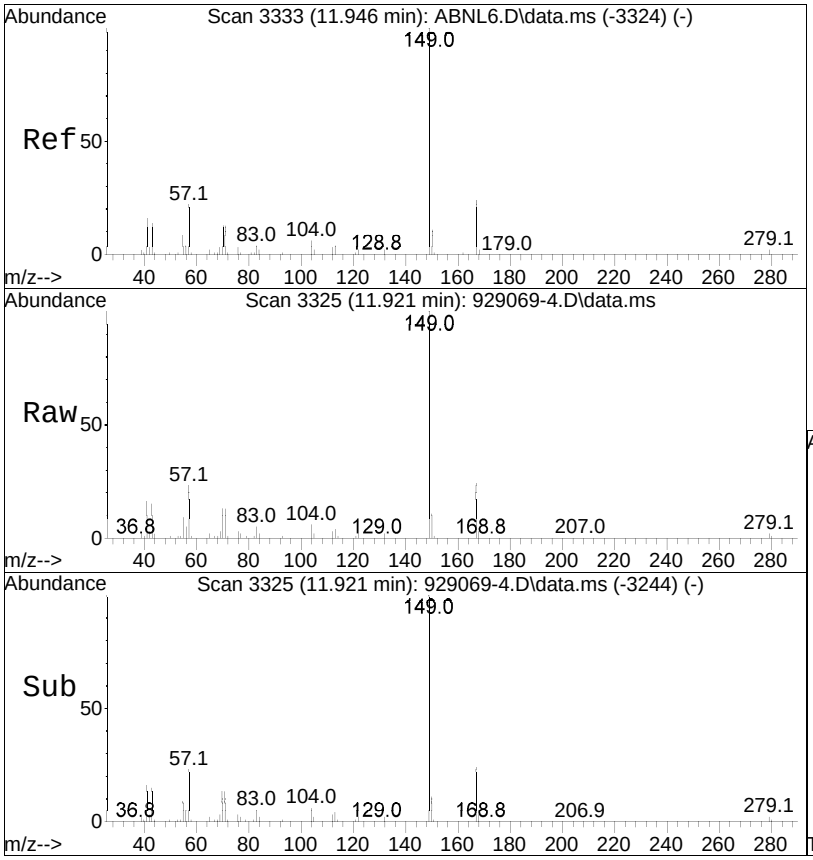


#105
3,3'-Dichlorobenzidine
Concen: 4.20 ug/ml
RT: 11.810 min Scan# 3289
Delta R.T. 0.003 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:252 Resp: 66395

Ion	Ratio	Lower	Upper
252	100		
126	10.7	14.5	21.7#
254	62.1	51.2	76.8

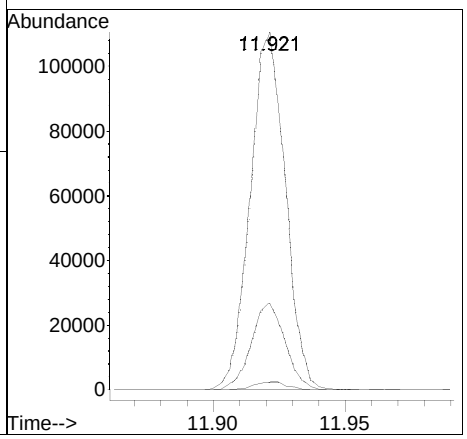


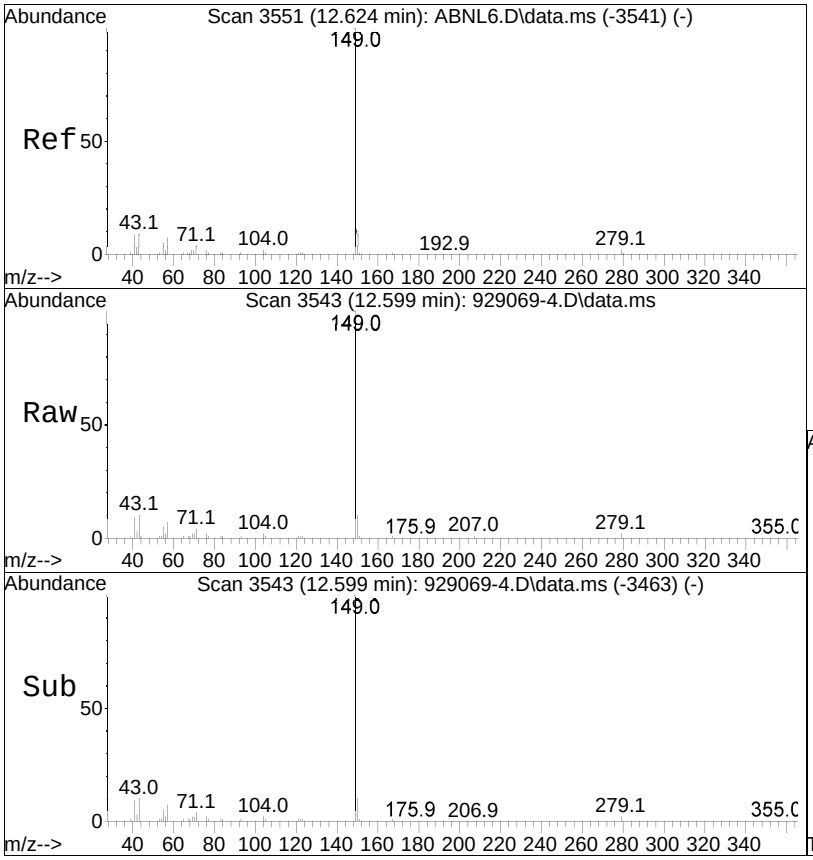


#107
Bis(2-ethylhexyl)phthalate
Concen: 4.55 ug/ml
RT: 11.921 min Scan# 3325
Delta R.T. 0.003 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:149 Resp: 101326

Ion	Ratio	Lower	Upper
149	100		
167	23.5	22.1	33.1
279	2.1	3.0	4.4#

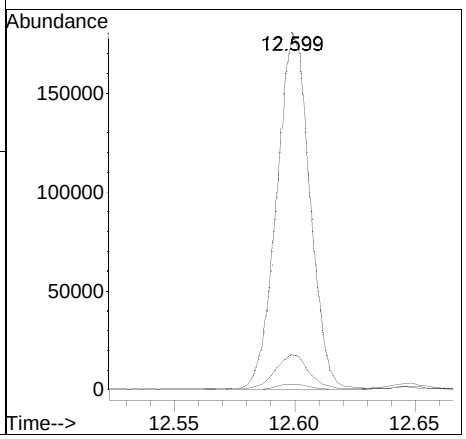




#108
Di-n-octylphthalate
Concen: 4.50 ug/ml
RT: 12.599 min Scan# 3543
Delta R.T. 0.000 min
Lab File: 929069-4.D
Acq: 5 Jun 2024 12:02 pm

Tgt Ion:149 Resp: 170959

Ion	Ratio	Lower	Upper
149	100		
43	9.8	18.8	28.2#
167	1.3	1.3	1.9#



Manual Integration Report

Data Path	: I:\8270\Dakota\240605RVT\	QMethod	: FS240531RVTDakota.m
Data File	: 929069-4.D	Operator	: Dakota:sz
Date Inj'd	: 6/5/2024 12:02 pm	Instrument	: Dakota
Sample	: WG1929069-4,32,,gmr	Quant Date	: 6/5/2024 12:21 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : 929069-6.D
Acq On : 5 Jun 2024 1:31 pm
Operator : Dakota:sz
Sample : WG1929069-6,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 13:50:10 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 13:50:44 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.810	152	27303	4.000	ug/ml		0.00
Standard Area 1 = 25549			Recovery = 106.87%				
27) IS2_1,4-Dichlorobenzen...	4.810	152	27303	4.000	ug/ml		0.00
Standard Area 3 = 24259			Recovery = 112.55%				
34) IS1_Naphthalene-d8	6.041	136	98534	4.000	ug/ml	#	0.00
Standard Area 1 = 92758			Recovery = 106.23%				
54) IS2_Naphthalene-d8	6.041	136	98534	4.000	ug/ml	#	0.00
Standard Area 3 = 86554			Recovery = 113.84%				
62) IS1_Acenaphthene-d10	7.747	164	63357	4.000	ug/ml		0.00
Standard Area 1 = 60587			Recovery = 104.57%				
82) IS2_Acenaphthene-d10	7.747	164	63357	4.000	ug/ml		0.00
Standard Area 3 = 57668			Recovery = 109.87%				
85) IS3_Acenaphthene-d10	7.747	164	63357	4.000	ug/ml		0.00
Standard Area 2 = 66116			Recovery = 95.83%				
87) IS1_Phenanthrene-d10	9.180	188	130141	4.000	ug/ml		0.00
Standard Area 1 = 137458			Recovery = 94.68%				
99) IS3_Phenanthrene-d10	9.180	188	130141	4.000	ug/ml		0.00
Standard Area 2 = 156367			Recovery = 83.23%				
103) IS1_Chrysene-d12	11.822	240	134984	4.000	ug/ml		0.00
Standard Area 1 = 145741			Recovery = 92.62%				
112) IS1_Perylene-d12	13.292	264	161071	4.000	ug/ml		0.00
Standard Area 1 = 171394			Recovery = 93.98%				
System Monitoring Compounds							
4) 2-Fluorophenol	3.548	112	23942	3.497	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 174.85%#				
7) Phenol-d6	4.484	99	26005	3.063	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 153.15%#				
19) Nitrobenzene-d5	5.348	82	13946	1.855	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 185.50%#				
45) 2-Fluorobiphenyl	7.110	172	42932	1.895	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 189.50%#				
78) 2,4,6-Tribromophenol	8.512	330	12529	4.238	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 211.90%#				
95) 4-Terphenyl-d14	10.759	244	69596	2.136	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 213.60%#				

Data Path : I:\8270\Dakota\240605RVT\
Data File : 929069-6.D
Acq On : 5 Jun 2024 1:31 pm
Operator : Dakota:sz
Sample : WG1929069-6,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 13:50:10 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 13:50:44 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	4.605	128	31335	4.095	ug/ml#	87
8) Phenol	4.496	94	31201	3.281	ug/ml#	58
9) Bis(2-chloroethyl)ether	4.568	93	25677	3.970	ug/ml	98
14) Bis(2-chloroisopropyl)...	5.096	45	41785	3.880	ug/ml#	56
15) 2-Methylphenol	5.084	108	26247	4.102	ug/ml	98
17) n-Nitrosodi-n-propylamine	5.223	70	20874	3.630	ug/ml#	90
18) 3-Methylphenol/4-Methy...	5.239	108	27116	3.887	ug/ml	95
20) Nitrobenzene	5.366	77	28570	3.860	ug/ml	94
21) Isophorone	5.606	82	54093	3.774	ug/ml	94
22) 2-Nitrophenol	5.680	139	13660	4.039	ug/ml	88
23) 2,4-Dimethylphenol	5.749	107	25332	3.817	ug/ml	97
24) Bis(2-chloroethoxy)met...	5.836	93	34758	4.048	ug/ml#	96
25) 2,4-Dichlorophenol	5.917	162	31793	4.136	ug/ml#	91
28) Benzaldehyde	4.378	105	25095	3.833	ug/ml	99
29) Acetophenone	5.205	105	44142	4.059	ug/ml#	79
37) 4-Chloroaniline	6.131	65	10433	3.594	ug/ml	98
39) p-Chloro-m-cresol	6.622	107	26499	4.124	ug/ml	86
42) Hexachlorocyclopentadiene	6.914	237	19583	3.296	ug/ml	99
43) 2,4,6-Trichlorophenol	7.026	196	25630	3.898	ug/ml	95
44) 2,4,5-Trichlorophenol	7.057	196	28931	4.046	ug/ml	96
47) 2-Nitroaniline	7.315	138	17484	3.973	ug/ml	85
50) Dimethyl phthalate	7.514	163	86898	3.938	ug/ml#	98
52) 2,6-Dinitrotoluene	7.558	165	14865	3.835	ug/ml#	83
59) Caprolactam	6.423	55	6833	2.149	ug/ml#	77
60) 1,2,4,5-Tetrachloroben...	6.911	216	39821	3.600	ug/ml	97
61) Biphenyl	7.200	154	87121	3.800	ug/ml	97
63) 3-Nitroaniline	7.713	138	14707	3.930	ug/ml	95
65) 2,4-Dinitrophenol	7.813	184	5781	3.046	ug/ml#	80
66) Dibenzofuran	7.946	168	110737	4.199	ug/ml	90
67) 2,4-Dinitrotoluene	7.946	165	21003	4.436	ug/ml	93
68) 4-Nitrophenol	7.896	65	12751	3.934	ug/ml#	87
70) 2,3,4,6-Tetrachlorophenol	8.077	232	23660	4.203	ug/ml	97
71) Diethyl phthalate	8.204	149	86776	4.023	ug/ml	99
73) 4-Chlorophenyl phenyl ...	8.294	204	45464	4.087	ug/ml#	83
74) 4-Nitroaniline	8.300	138	15605	3.914	ug/ml#	83
75) 4,6-Dinitro-o-cresol	8.338	198	11296	4.095	ug/ml#	71

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : 929069-6.D
Acq On : 5 Jun 2024 1:31 pm
Operator : Dakota:sz
Sample : WG1929069-6,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 13:50:10 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 13:50:44 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	NDPA/DPA	8.409	169	75206	4.160	ug/ml	92
79)	4-Bromophenyl phenyl e...	8.764	248	27887	4.036	ug/ml#	80
86)	Atrazine	8.944	200	25112	3.745	ug/ml	92
90)	Carbazole	9.416	167	134829	4.367	ug/ml	98
91)	Di-n-butylphthalate	9.799	149	147487	4.395	ug/ml	99
96)	Butyl benzyl phthalate	11.284	149	67900	4.415	ug/ml	85
105)	3,3'-Dichlorobenzidine	11.810	252	64369	4.033	ug/ml#	94
107)	Bis(2-ethylhexyl)phtha...	11.921	149	101546	4.517	ug/ml#	92
108)	Di-n-octylphthalate	12.599	149	177714	4.634	ug/ml#	73

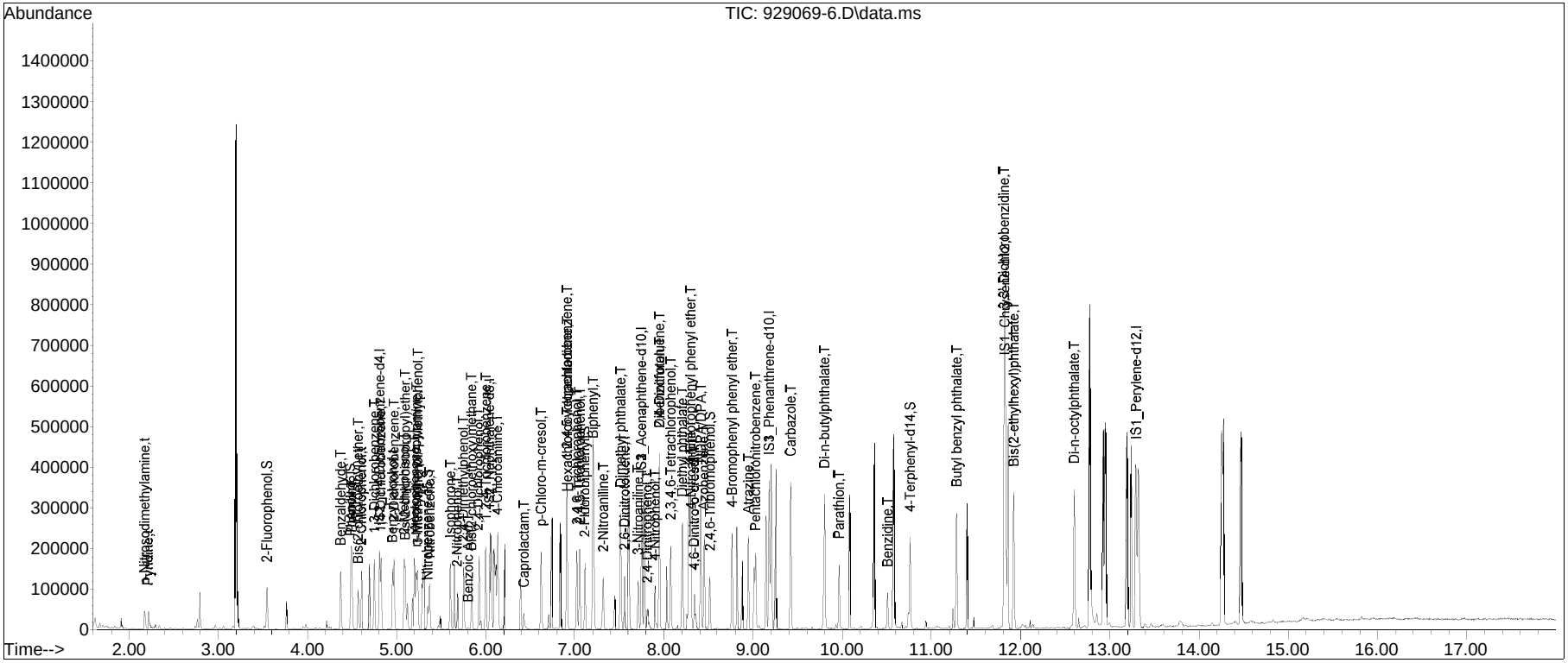
(#) = qualifier out of range (m) = manual integration (+) = signals summed

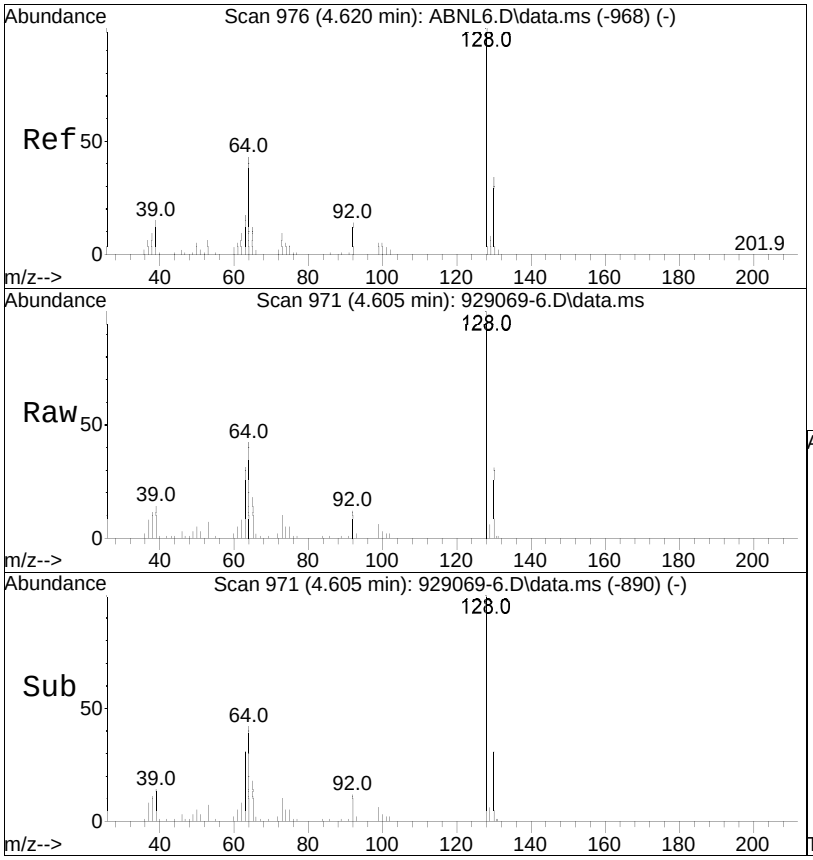
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : 929069-6.D
Acq On : 5 Jun 2024 1:31 pm
Operator : Dakota:sz
Sample : WG1929069-6,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 13:50:10 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 13:50:44 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90605.D•

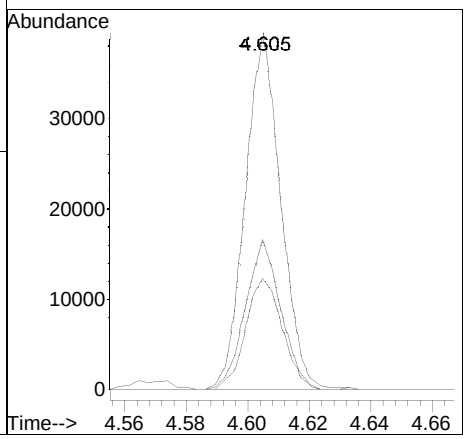


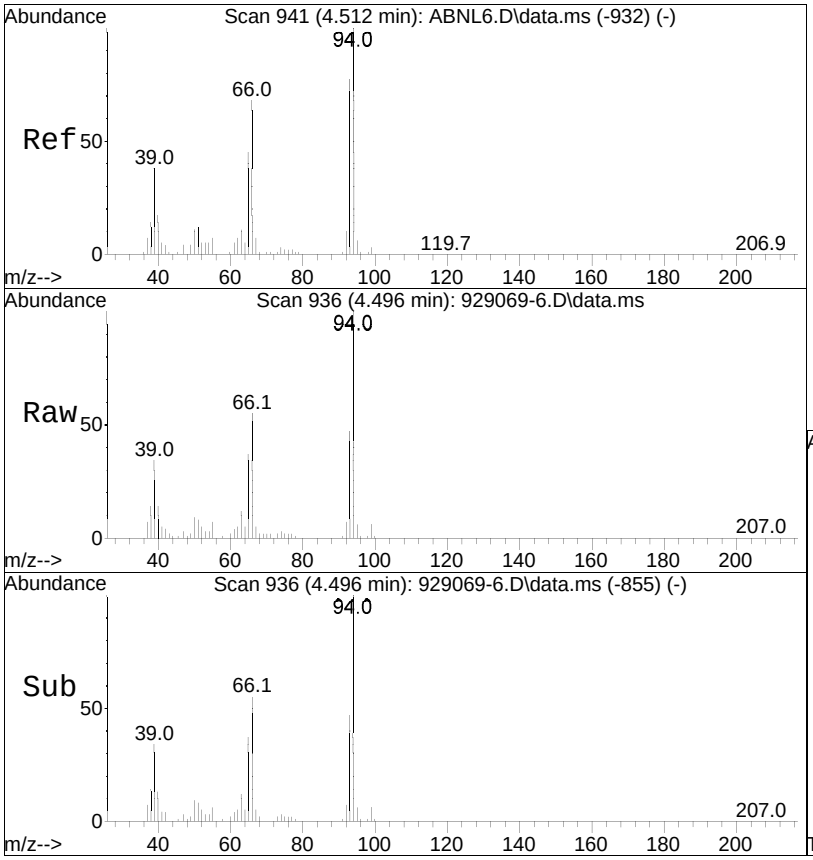


#6
2-Chlorophenol
Concen: 4.09 ug/ml
RT: 4.605 min Scan# 971
Delta R.T. 0.003 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:128 Resp: 31335

Ion	Ratio	Lower	Upper
128	100		
64	42.0	45.1	67.7#
130	32.6	26.2	39.4

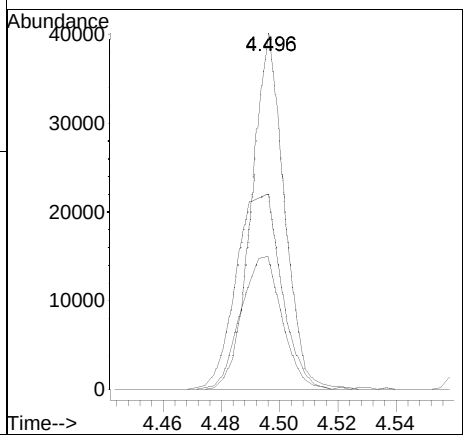


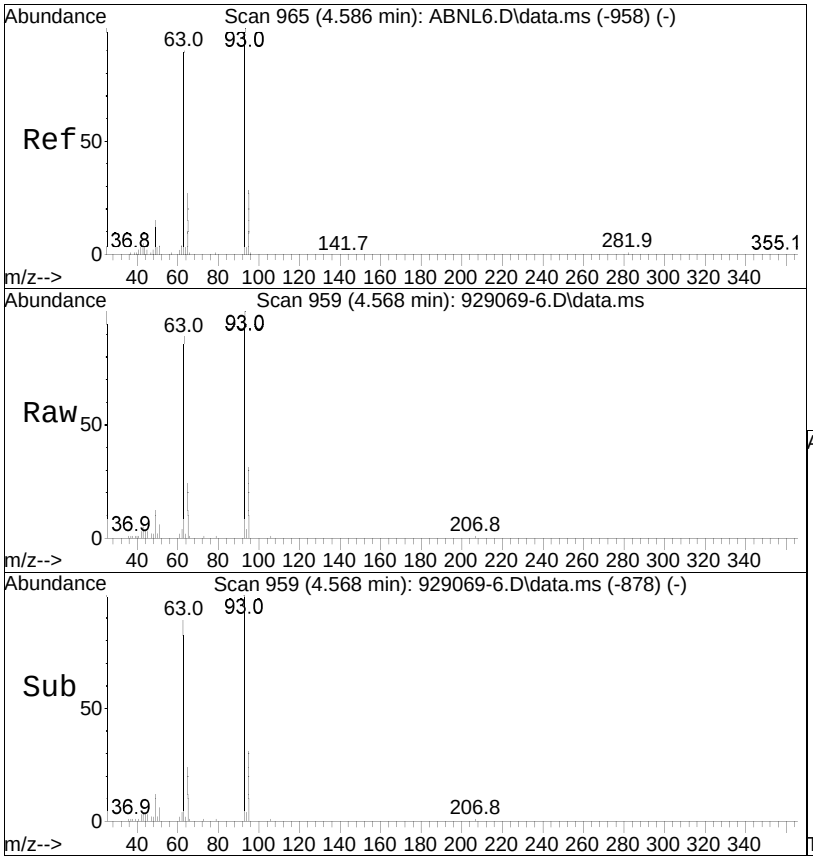


#8
Phenol
Concen: 3.28 ug/ml
RT: 4.496 min Scan# 936
Delta R.T. 0.003 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion: 94 Resp: 31201

Ion	Ratio	Lower	Upper
94	100		
65	47.6	26.0	39.0#
66	76.2	33.8	50.8#

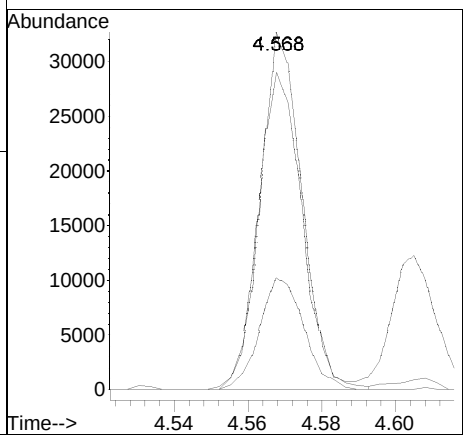


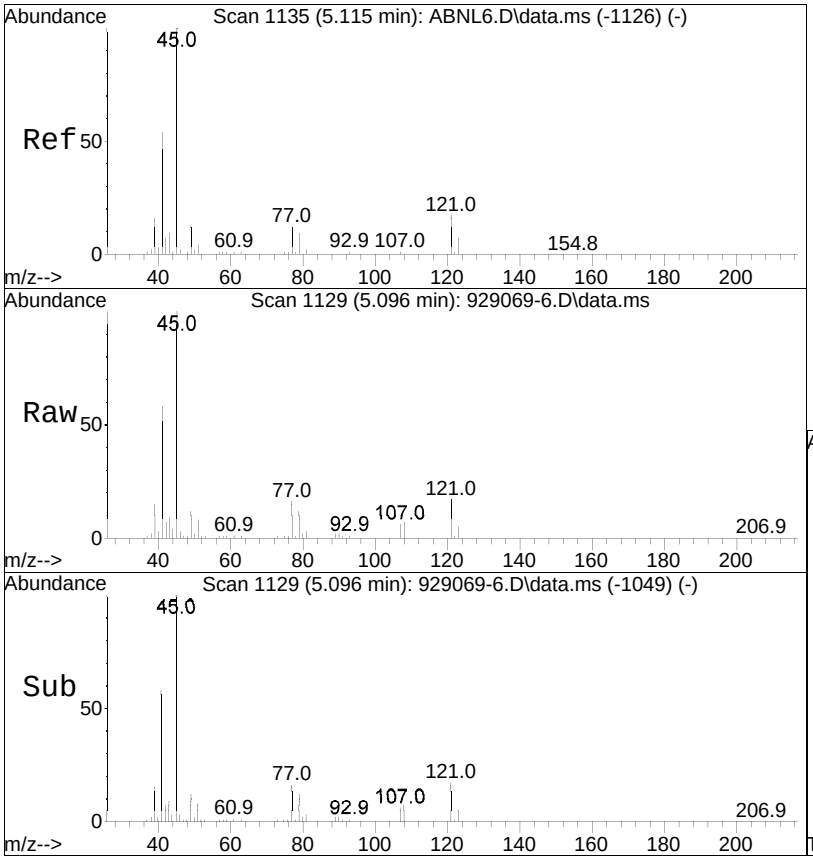


#9
Bis(2-chloroethyl)ether
Concen: 3.97 ug/ml
RT: 4.568 min Scan# 959
Delta R.T. 0.000 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion: 93 Resp: 25677

Ion	Ratio	Lower	Upper
93	100		
63	91.6	74.6	111.8
95	33.4	25.9	38.9

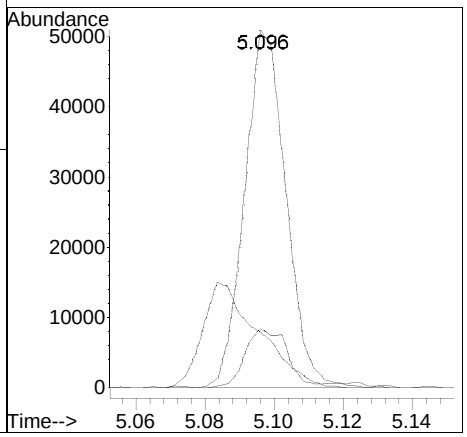


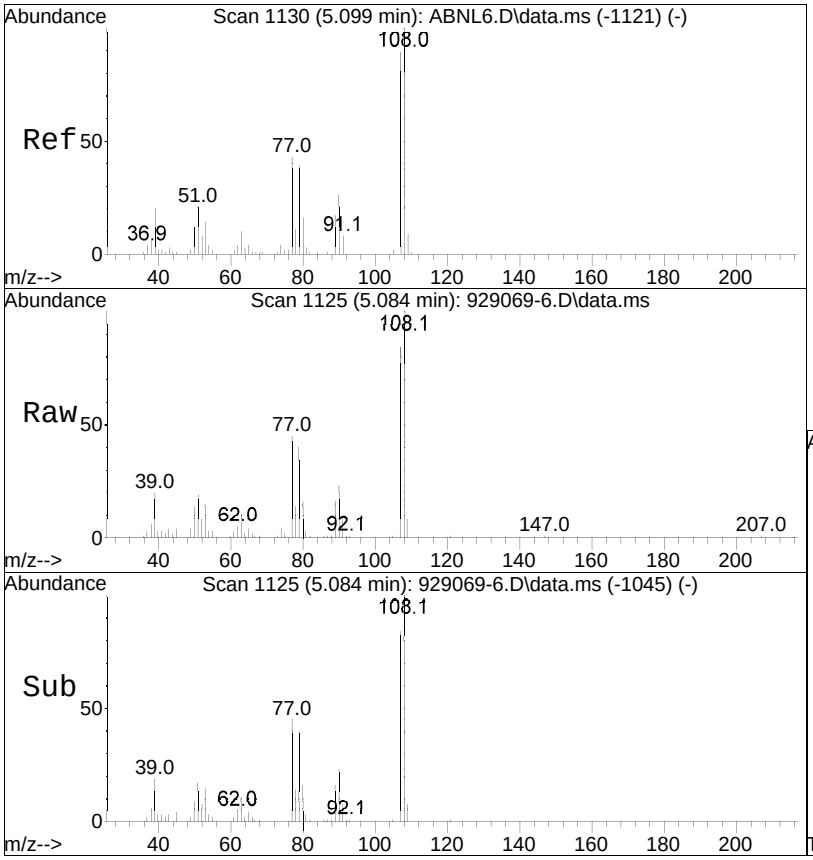


#14
Bis(2-chloroisopropyl)ether
Concen: 3.88 ug/ml
RT: 5.096 min Scan# 1129
Delta R.T. 0.000 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion: 45 Resp: 41785

Ion	Ratio	Lower	Upper
45	100		
121	17.5	9.8	14.6#
77	39.9	6.1	9.1#

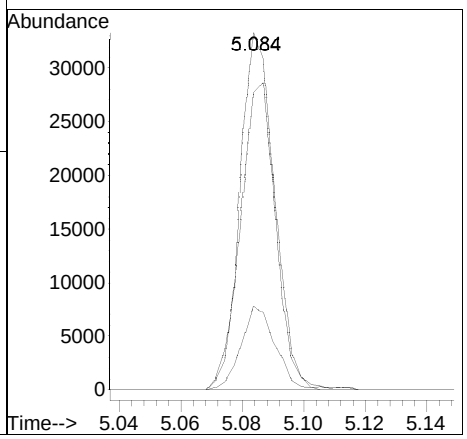


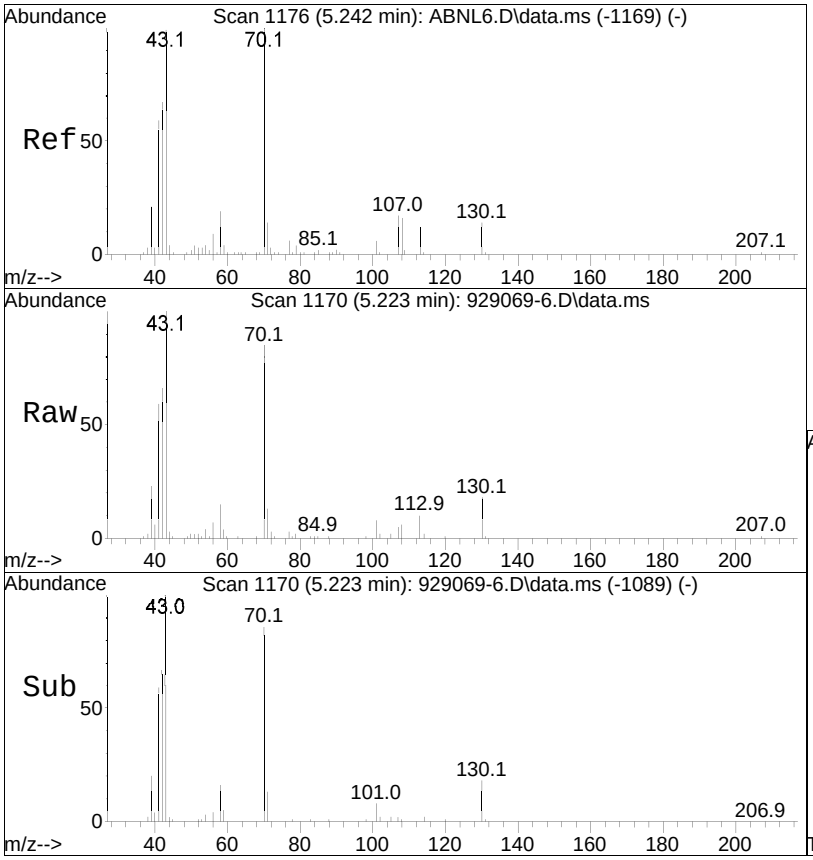


#15
2-Methylphenol
Concen: 4.10 ug/ml
RT: 5.084 min Scan# 1125
Delta R.T. 0.000 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:108 Resp: 26247

Ion	Ratio	Lower	Upper
108	100		
107	86.6	70.7	106.1
90	23.0	18.7	28.1

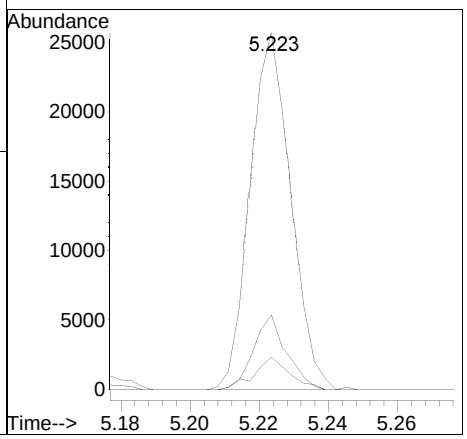


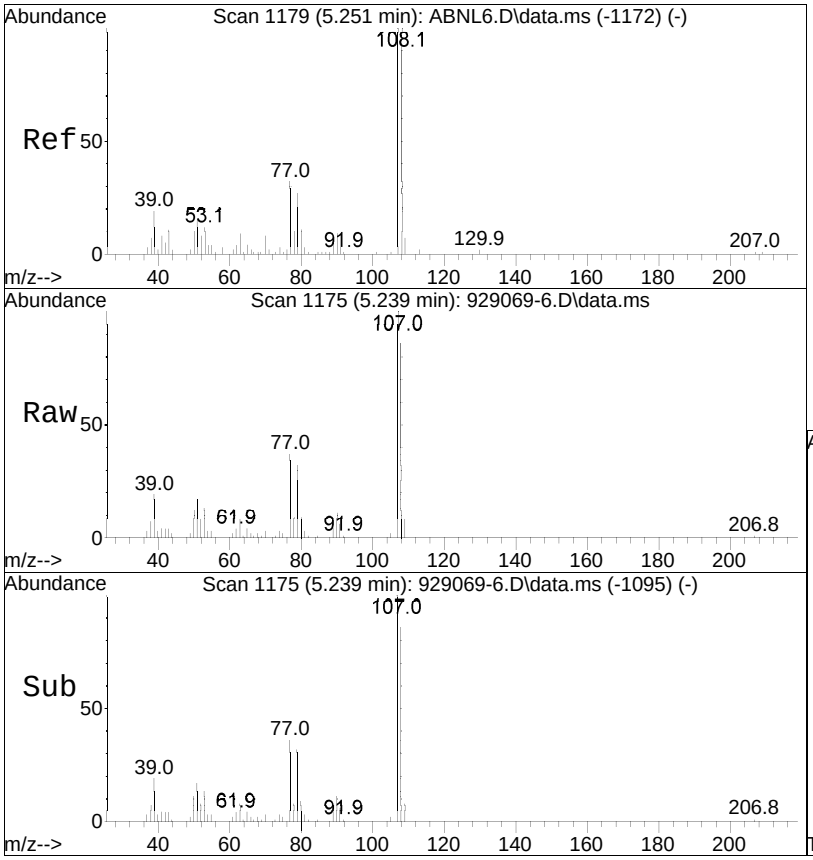


#17
n-Nitrosodi-n-propylamine
Concen: 3.63 ug/ml
RT: 5.223 min Scan# 1170
Delta R.T. 0.003 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion: 70 Resp: 20874

Ion	Ratio	Lower	Upper
70	100		
130	16.9	18.2	27.4#
101	8.0	7.8	11.8

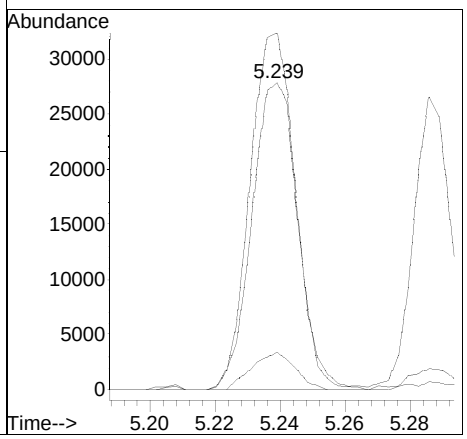


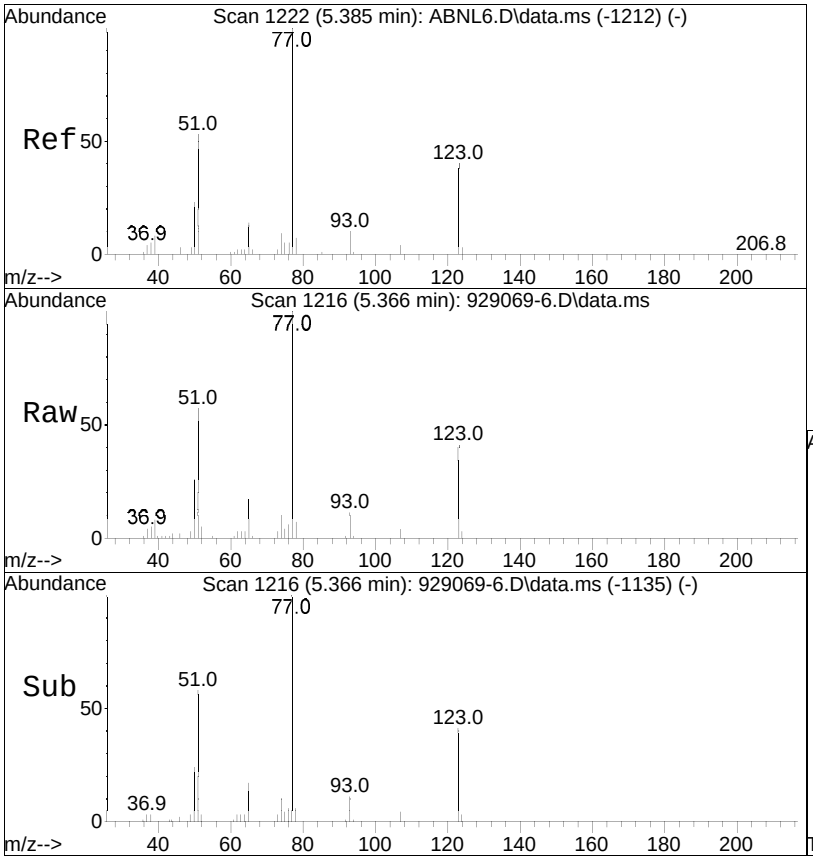


#18
3-Methylphenol/4-Methylphenol
Concen: 3.89 ug/ml
RT: 5.239 min Scan# 1175
Delta R.T. 0.000 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:108 Resp: 27116

Ion	Ratio	Lower	Upper
108	100		
107	116.7	88.6	132.8
90	11.6	8.8	13.2

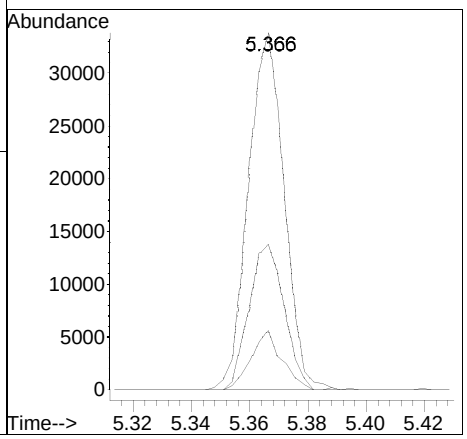


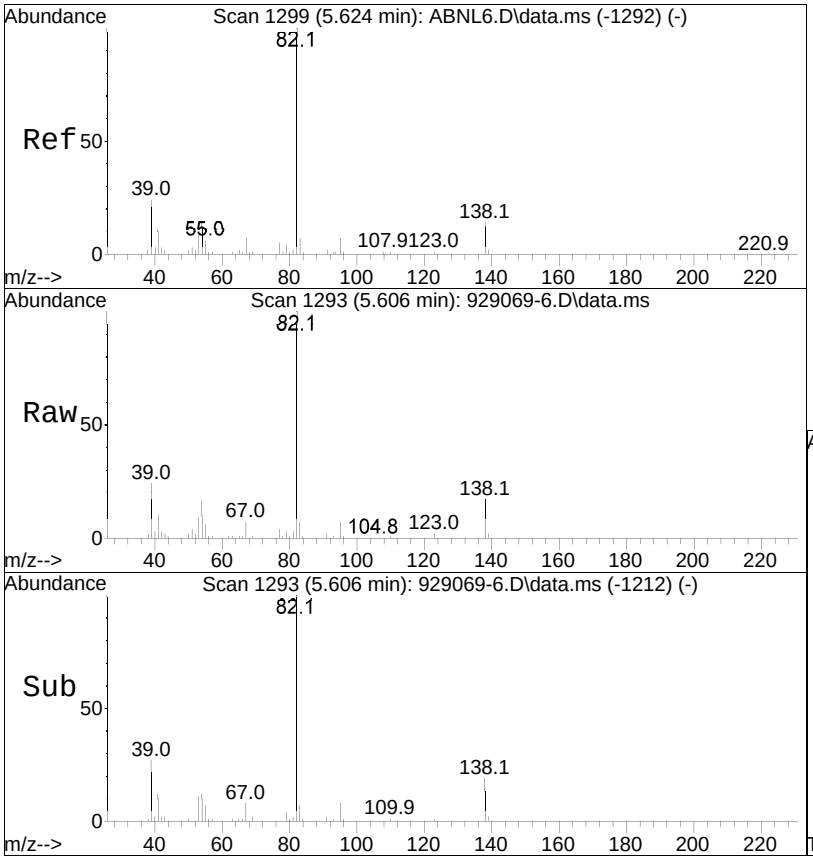


#20
Nitrobenzene
Concen: 3.86 ug/ml
RT: 5.366 min Scan# 1216
Delta R.T. 0.003 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion: 77 Resp: 28570

Ion	Ratio	Lower	Upper
77	100		
123	40.2	36.3	54.5
65	14.4	11.6	17.4

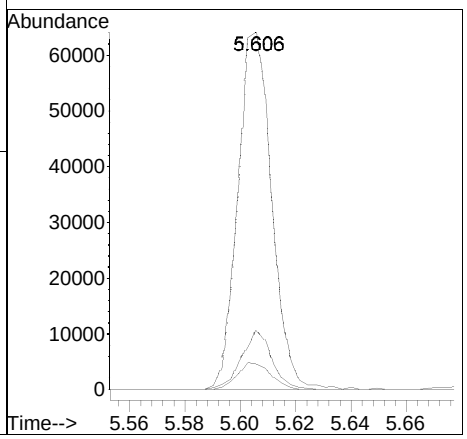


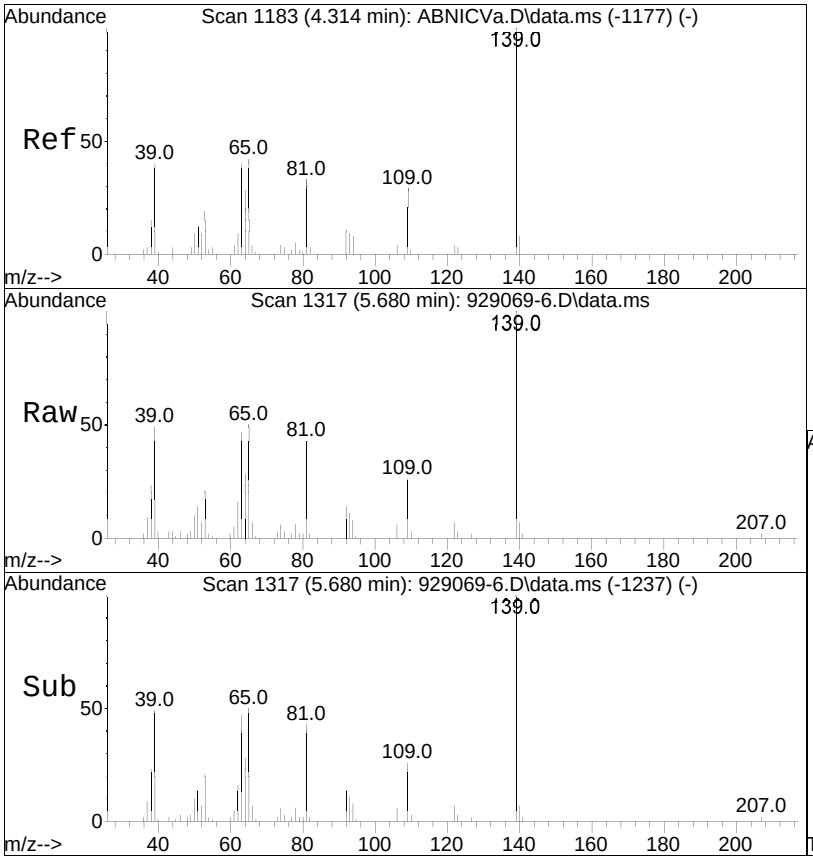


#21
Isophorone
Concen: 3.77 ug/ml
RT: 5.606 min Scan# 1293
Delta R.T. 0.003 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion: 82 Resp: 54093

Ion	Ratio	Lower	Upper
82	100		
138	14.9	14.7	22.1
95	7.5	5.2	7.8

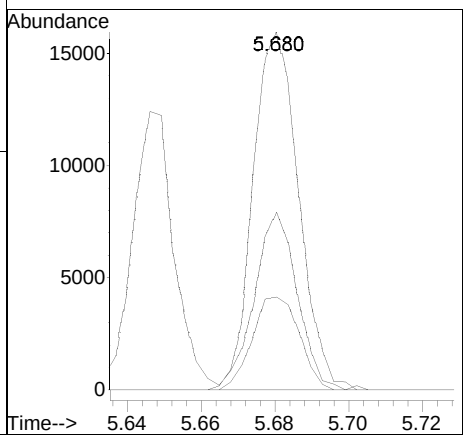


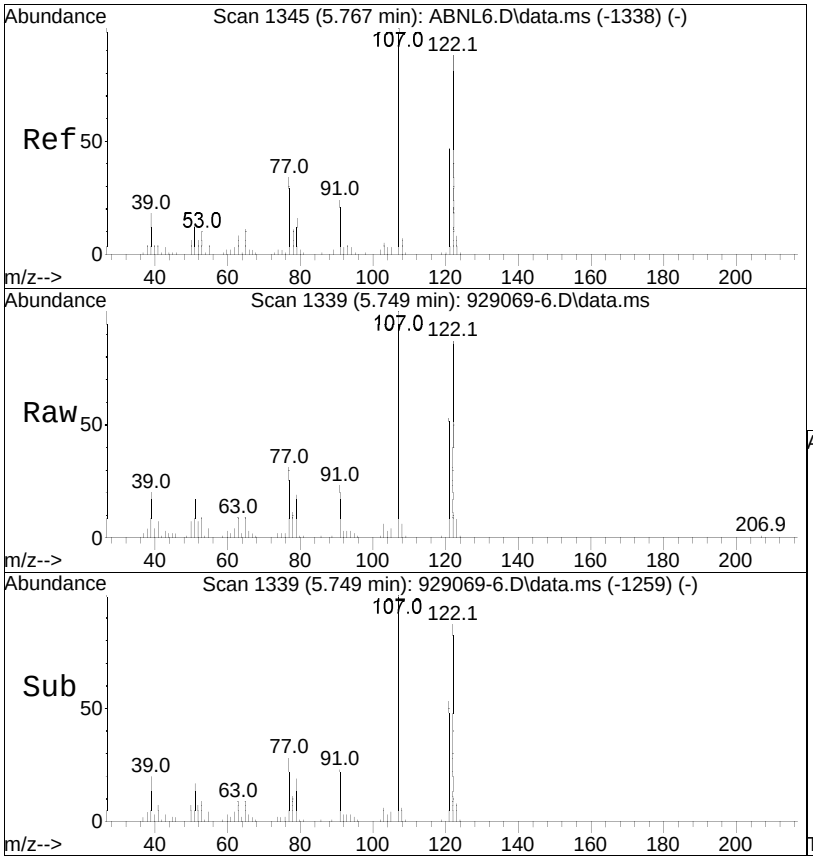


#22
2-Nitrophenol
Concen: 4.04 ug/ml
RT: 5.680 min Scan# 1317
Delta R.T. 0.000 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:139 Resp: 13660

Ion	Ratio	Lower	Upper
139	100		
109	26.9	19.4	29.0
65	46.8	46.1	69.1

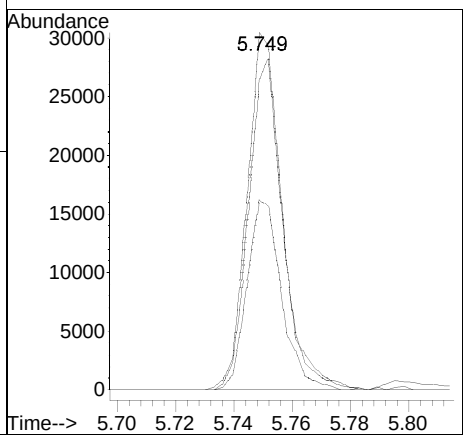


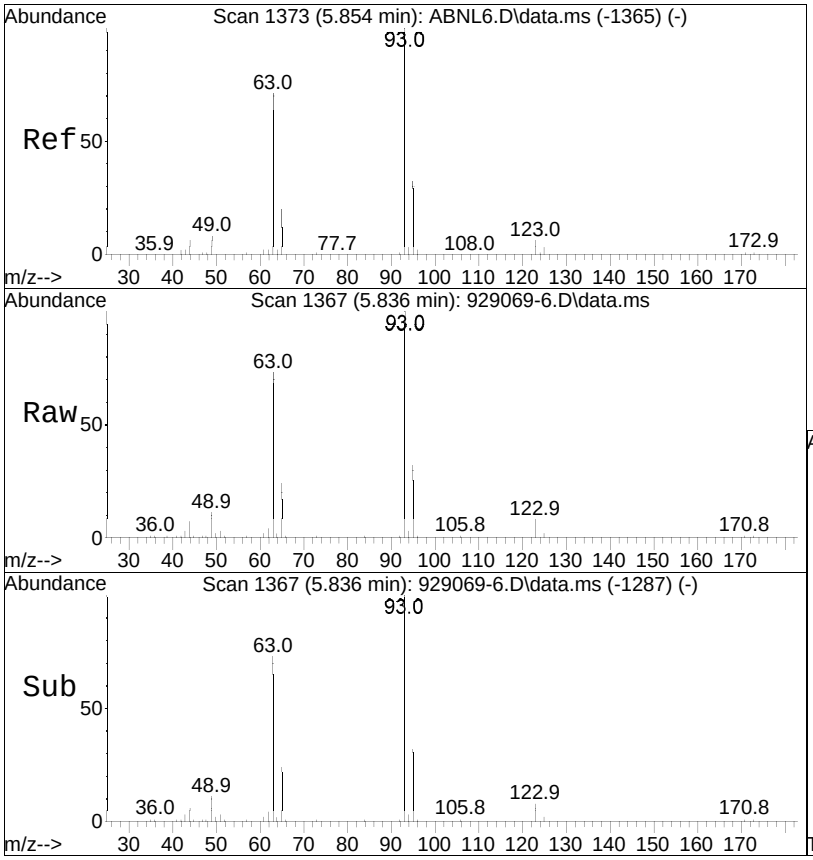


#23
2,4-Dimethylphenol
Concen: 3.82 ug/ml
RT: 5.749 min Scan# 1339
Delta R.T. 0.000 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:107 Resp: 25332

Ion	Ratio	Lower	Upper
107	100		
121	52.3	40.0	60.0
122	90.4	70.2	105.4

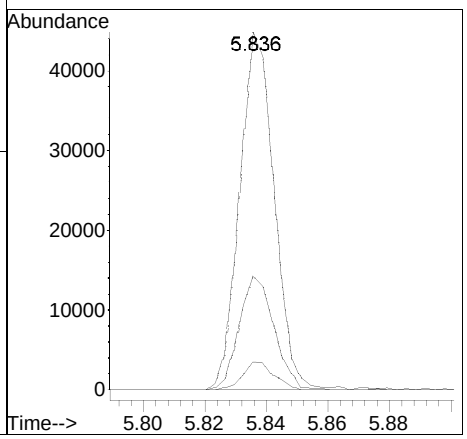


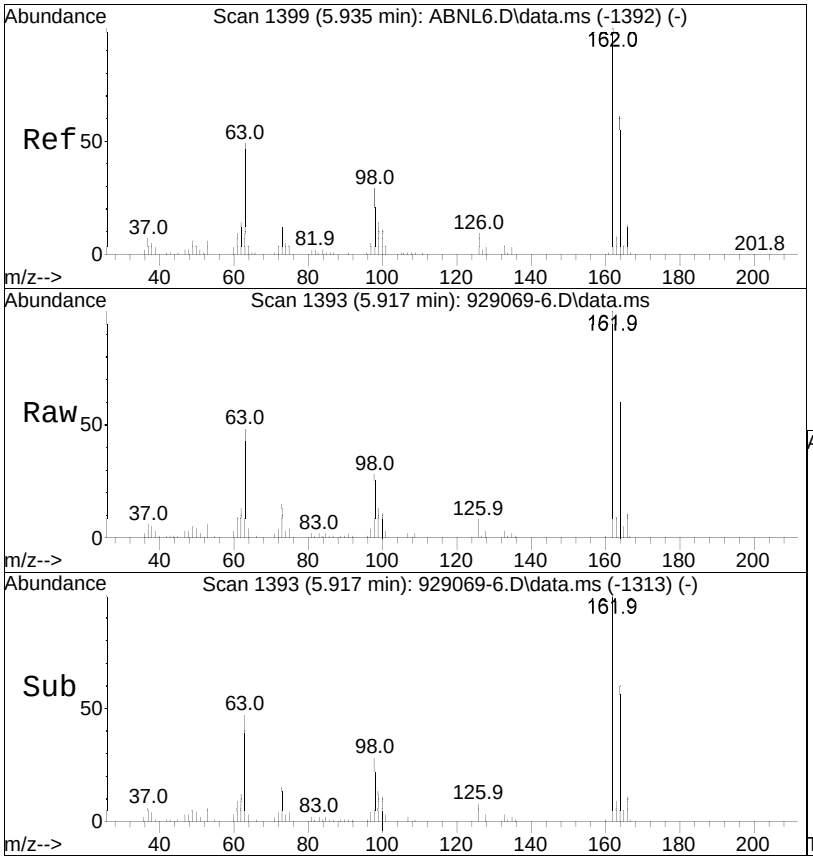


#24
Bis(2-chloroethoxy)methane
Concen: 4.05 ug/ml
RT: 5.836 min Scan# 1367
Delta R.T. 0.000 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion: 93 Resp: 34758

Ion	Ratio	Lower	Upper
93	100		
95	32.2	25.8	38.8
123	7.2	10.1	15.1#

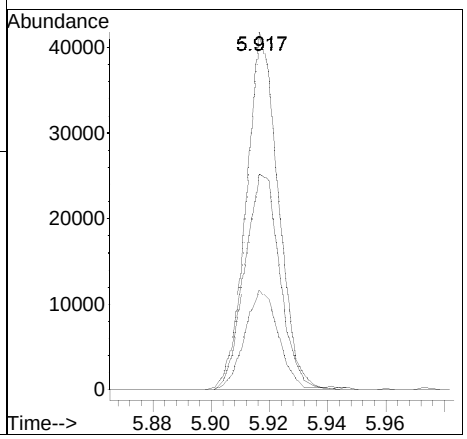


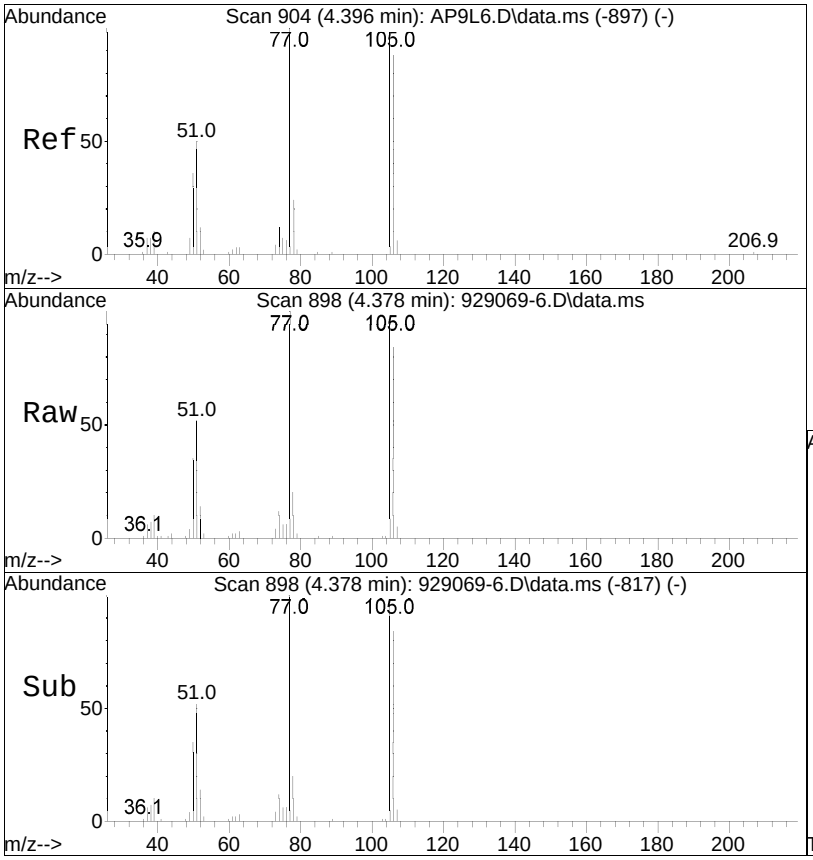


#25
2,4-Dichlorophenol
Concen: 4.14 ug/ml
RT: 5.917 min Scan# 1393
Delta R.T. 0.000 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:162 Resp: 31793

Ion	Ratio	Lower	Upper
162	100		
164	66.5	51.0	76.4
98	29.7	32.2	48.2#

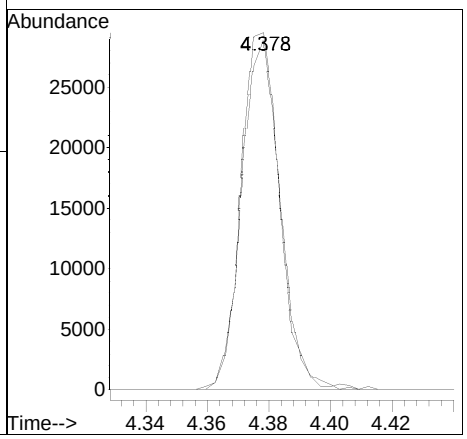


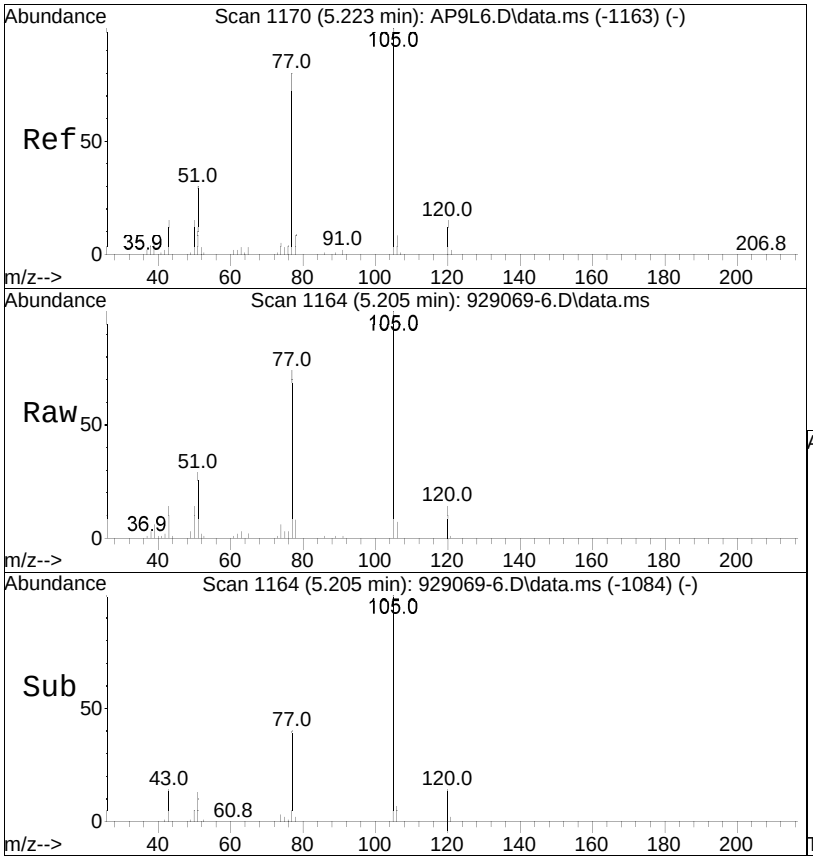


#28
Benzaldehyde
Concen: 3.83 ug/ml
RT: 4.378 min Scan# 898
Delta R.T. 0.003 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:105 Resp: 25095

Ion	Ratio	Lower	Upper
105	100		
77	101.8	82.2	123.4

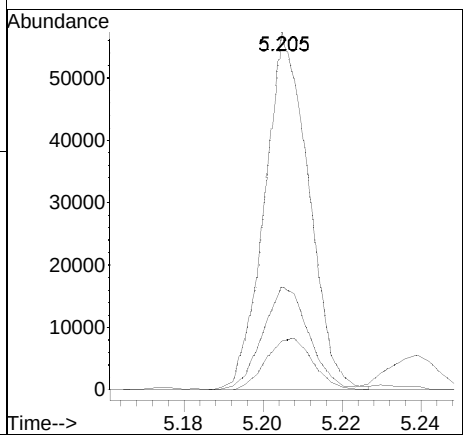


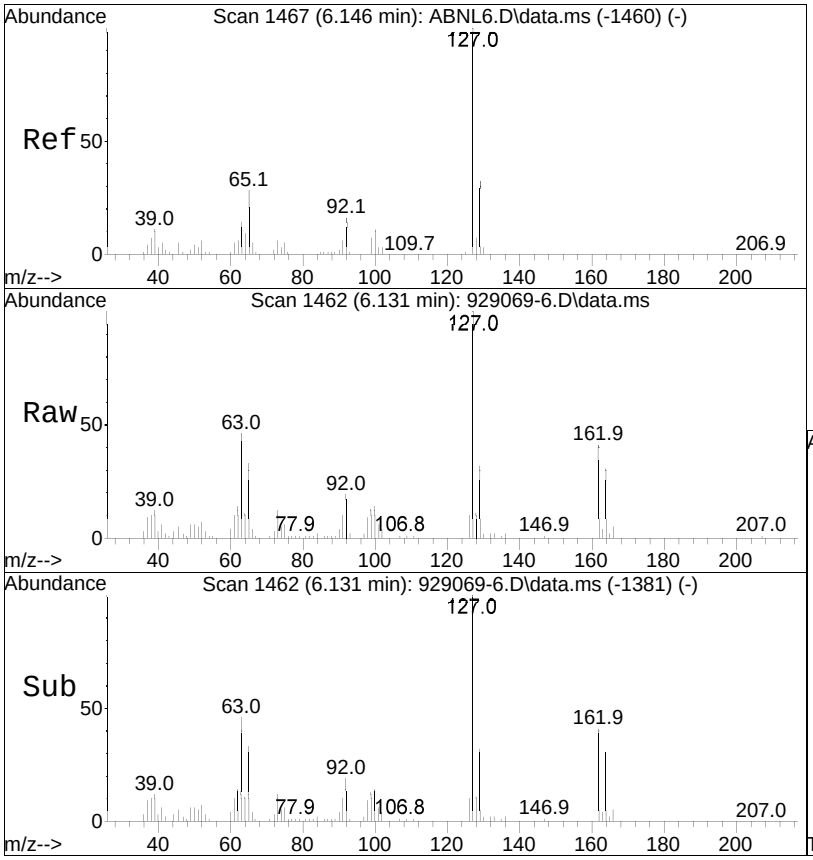


#29
Acetophenone
Concen: 4.06 ug/ml
RT: 5.205 min Scan# 1164
Delta R.T. 0.000 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:105 Resp: 44142

Ion	Ratio	Lower	Upper
105	100		
120	15.4	20.5	30.7#
51	29.7	34.9	52.3#

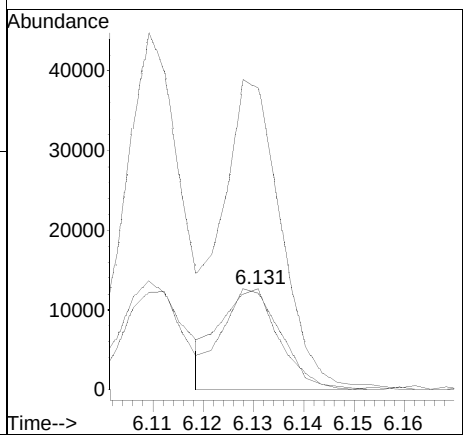


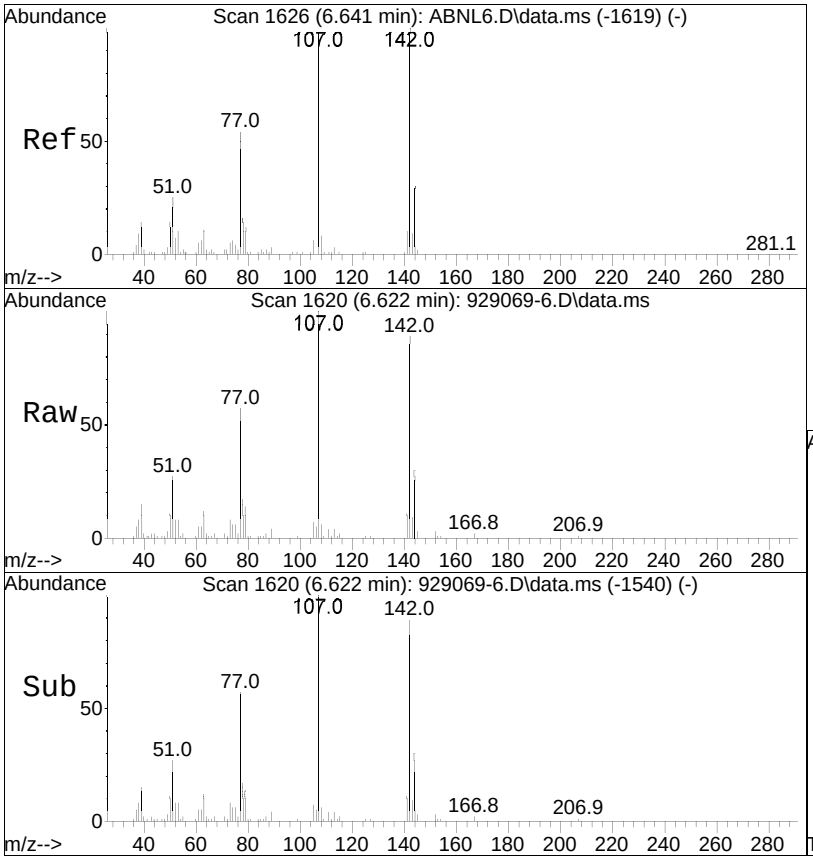


#37
4-Chloroaniline
Concen: 3.59 ug/ml
RT: 6.131 min Scan# 1462
Delta R.T. 0.003 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion: 65 Resp: 10433

Ion	Ratio	Lower	Upper
65	100		
127	302.3	237.6	356.4
129	97.0	76.3	114.5

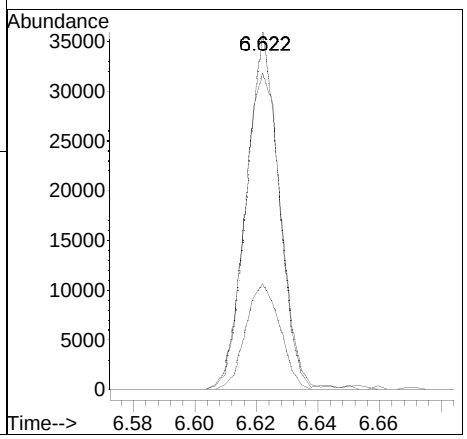


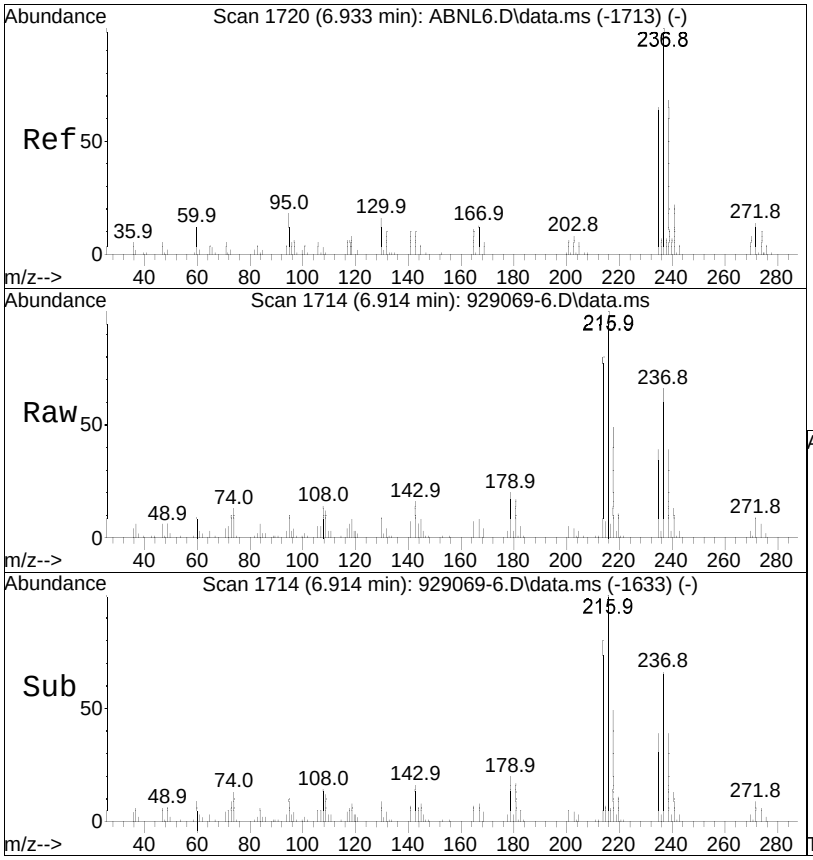


#39
p-Chloro-m-cresol
Concen: 4.12 ug/ml
RT: 6.622 min Scan# 1620
Delta R.T. 0.000 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:107 Resp: 26499

Ion	Ratio	Lower	Upper
107	100		
144	31.1	20.9	31.3
142	96.7	66.1	99.1

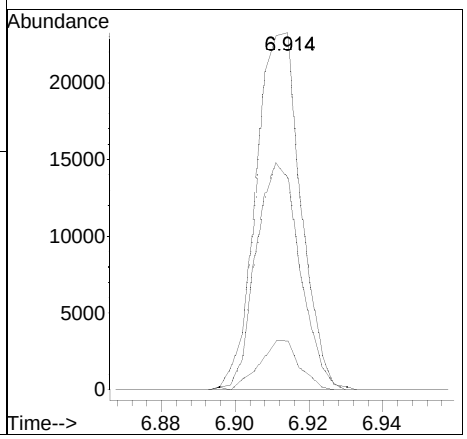


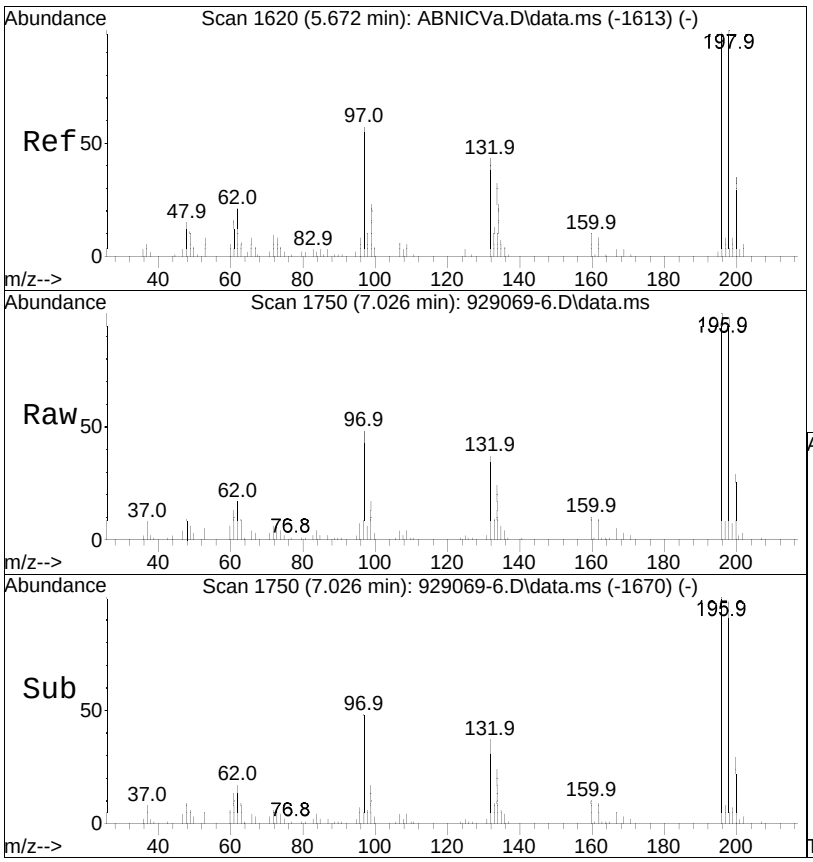


#42
Hexachlorocyclopentadiene
Concen: 3.30 ug/ml
RT: 6.914 min Scan# 1714
Delta R.T. 0.003 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:237 Resp: 19583

Ion	Ratio	Lower	Upper
237	100		
235	62.7	49.7	74.5
272	12.4	9.8	14.6

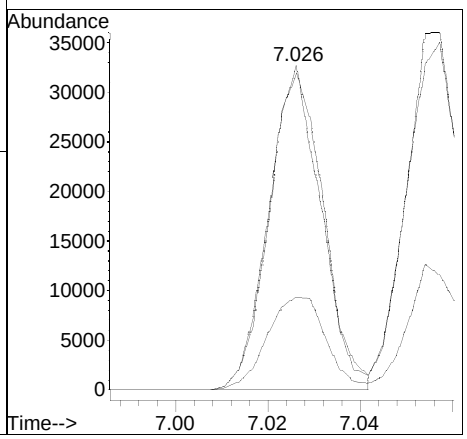


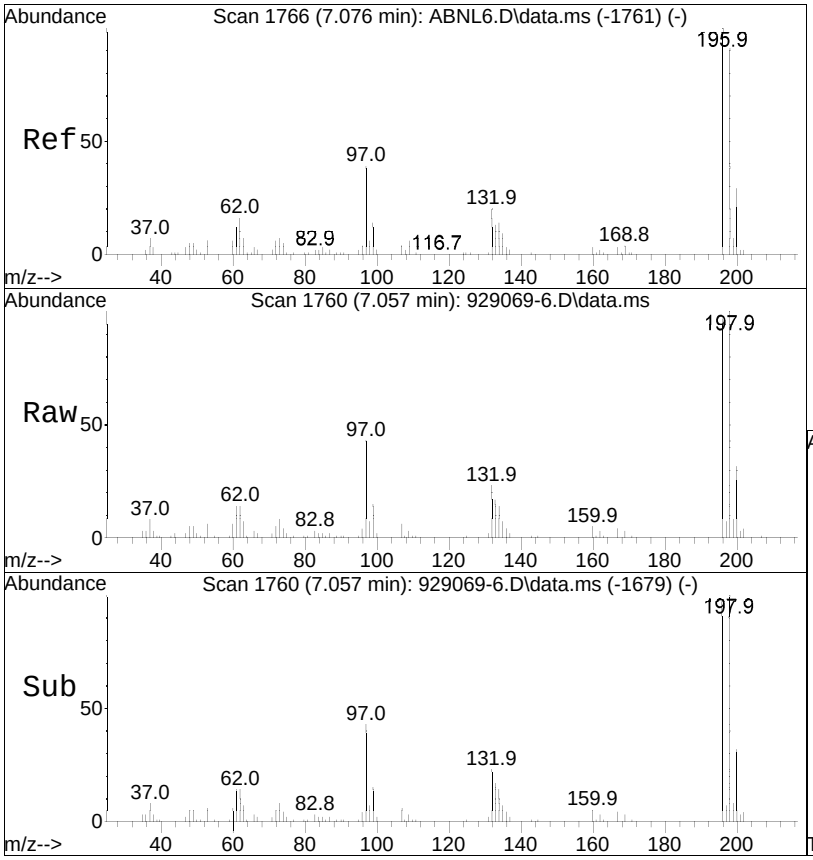


#43
2,4,6-Trichlorophenol
Concen: 3.90 ug/ml
RT: 7.026 min Scan# 1750
Delta R.T. 0.000 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:196 Resp: 25630

Ion	Ratio	Lower	Upper
196	100		
198	102.3	77.5	116.3
200	32.5	23.8	35.6

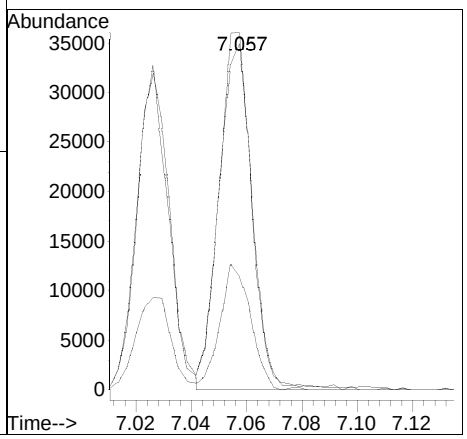


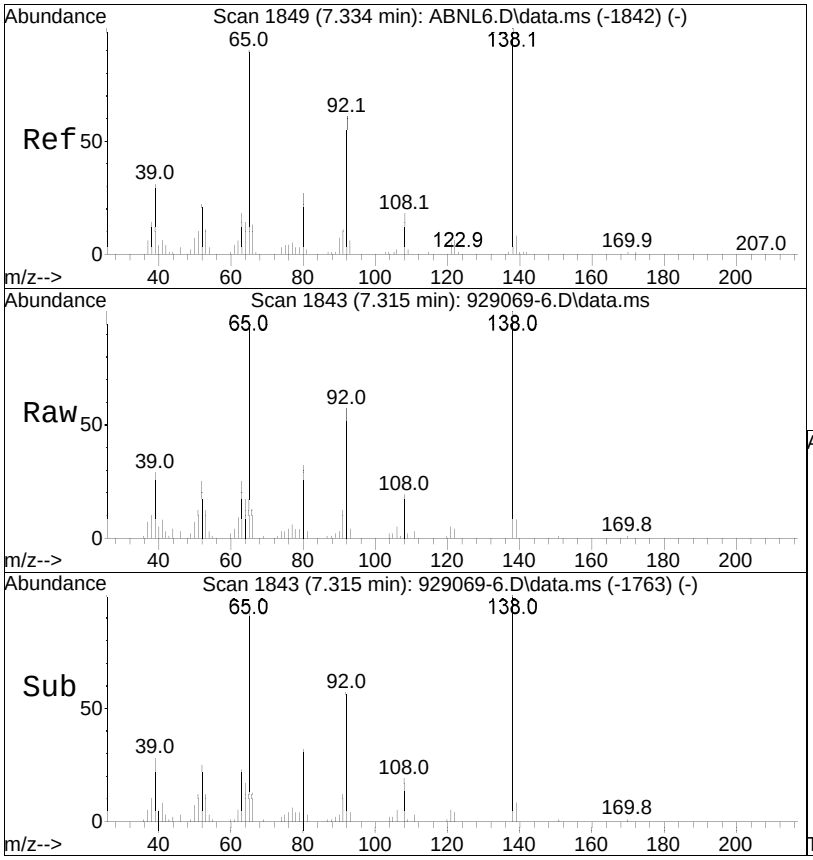


#44
2,4,5-Trichlorophenol
Concen: 4.05 ug/ml
RT: 7.057 min Scan# 1760
Delta R.T. 0.003 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:196 Resp: 28931

Ion	Ratio	Lower	Upper
196	100		
200	33.7	25.4	38.0
198	101.6	78.0	117.0

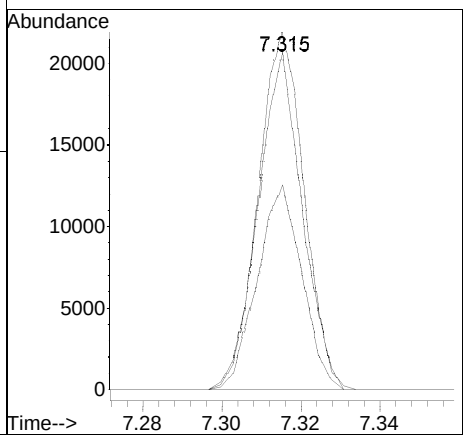


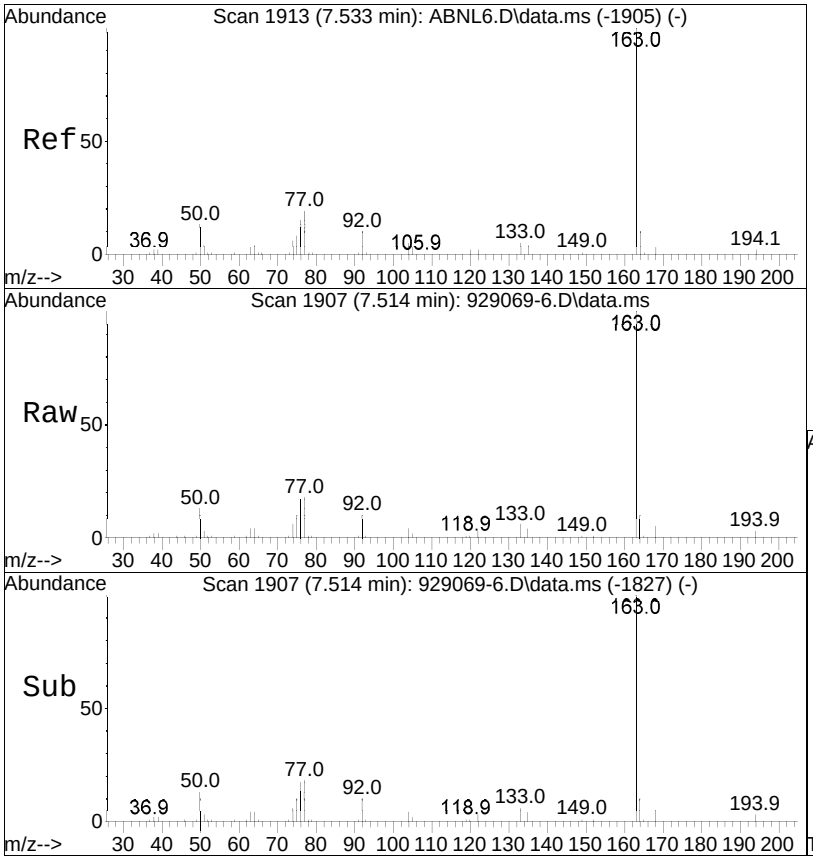


#47
2-Nitroaniline
Concen: 3.97 ug/ml
RT: 7.315 min Scan# 1843
Delta R.T. 0.000 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:138 Resp: 17484

Ion	Ratio	Lower	Upper
138	100		
92	55.9	53.5	80.3
65	90.9	86.3	129.5

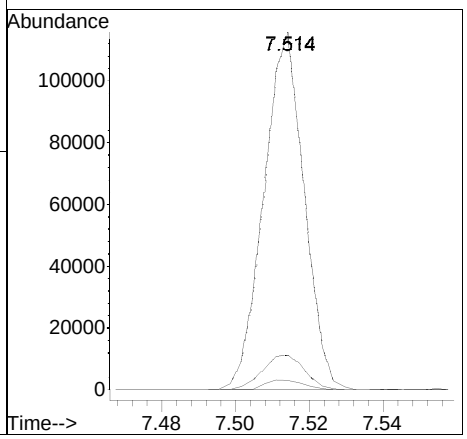


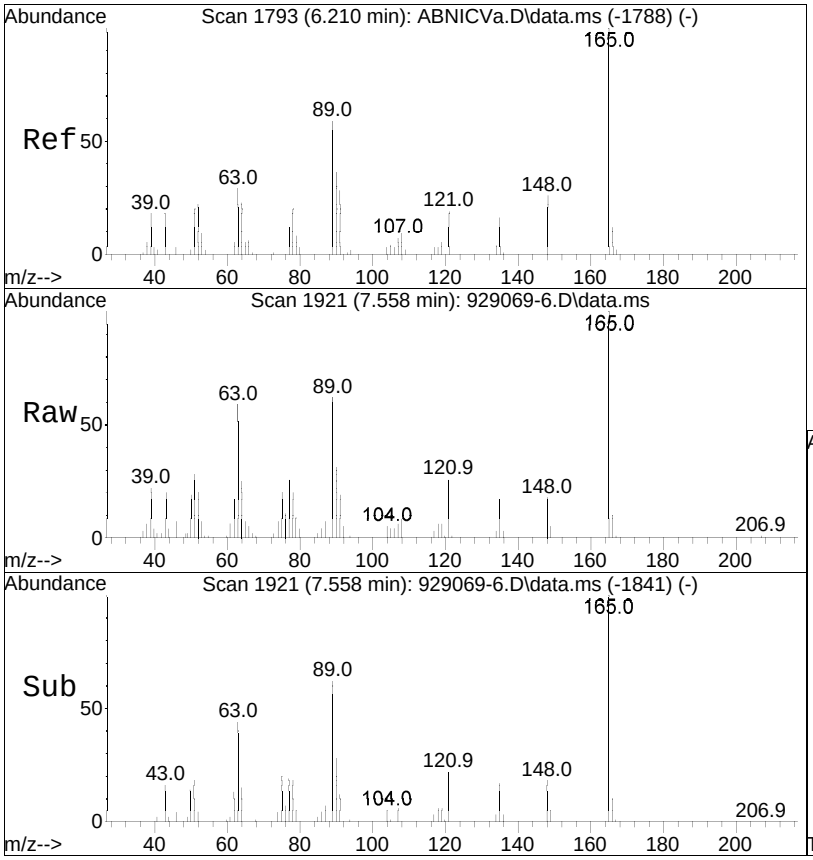


#50
Dimethyl phthalate
Concen: 3.94 ug/ml
RT: 7.514 min Scan# 1907
Delta R.T. 0.000 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:163 Resp: 86898

Ion	Ratio	Lower	Upper
163	100		
194	2.7	3.5	5.3#
164	10.3	7.9	11.9

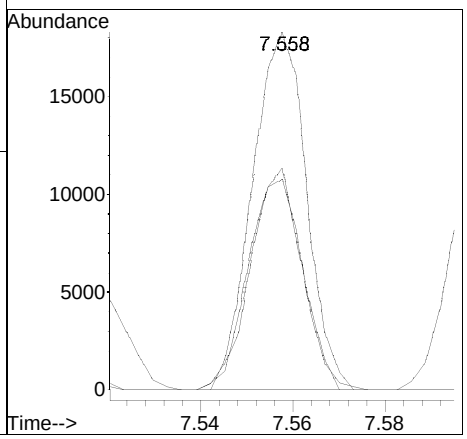


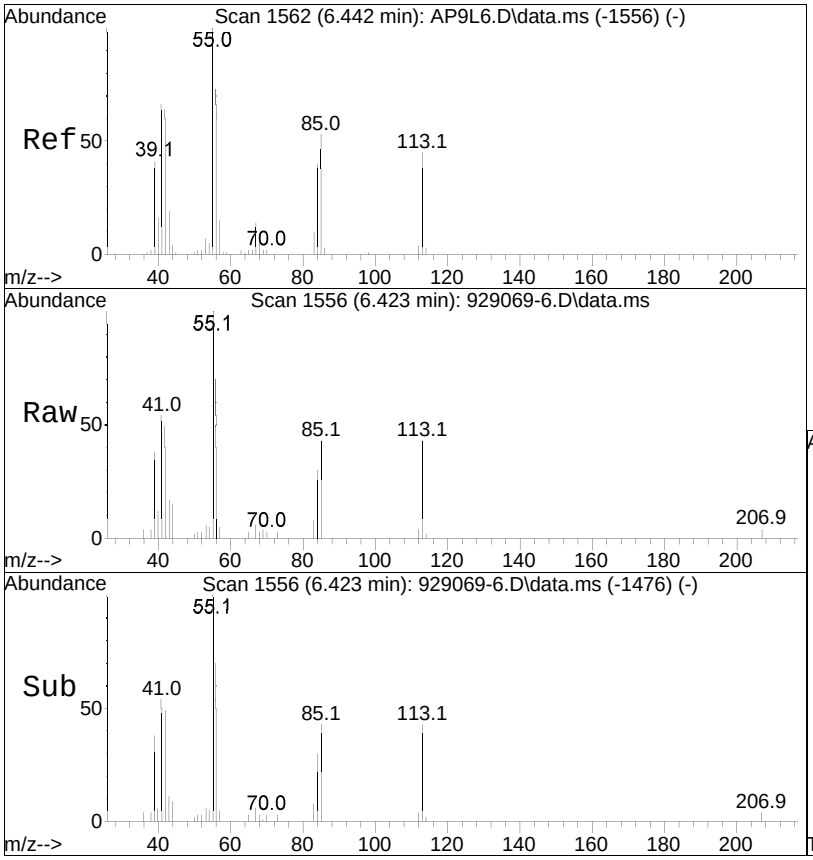


#52
2,6-Dinitrotoluene
Concen: 3.84 ug/ml
RT: 7.558 min Scan# 1921
Delta R.T. 0.000 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:165 Resp: 14865

Ion	Ratio	Lower	Upper
165	100		
89	59.0	54.2	81.2
63	60.1	64.2	96.2#

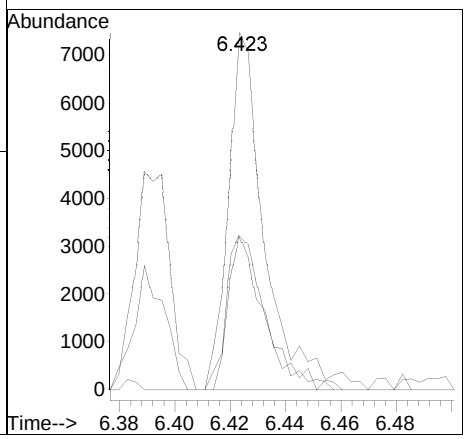


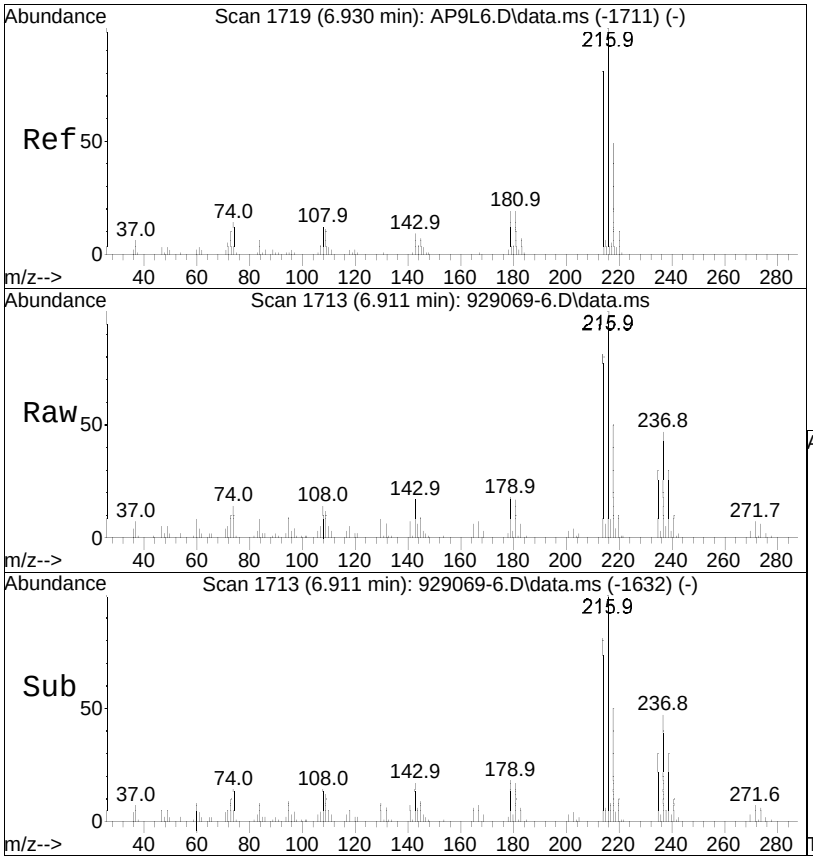


#59
Caprolactam
Concen: 2.15 ug/ml
RT: 6.423 min Scan# 1556
Delta R.T. 0.000 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion: 55 Resp: 6833

Ion	Ratio	Lower	Upper
55	100		
85	46.5	19.8	29.6#
113	42.6	29.6	44.4

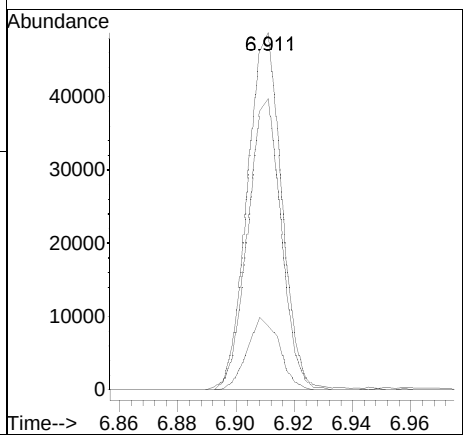


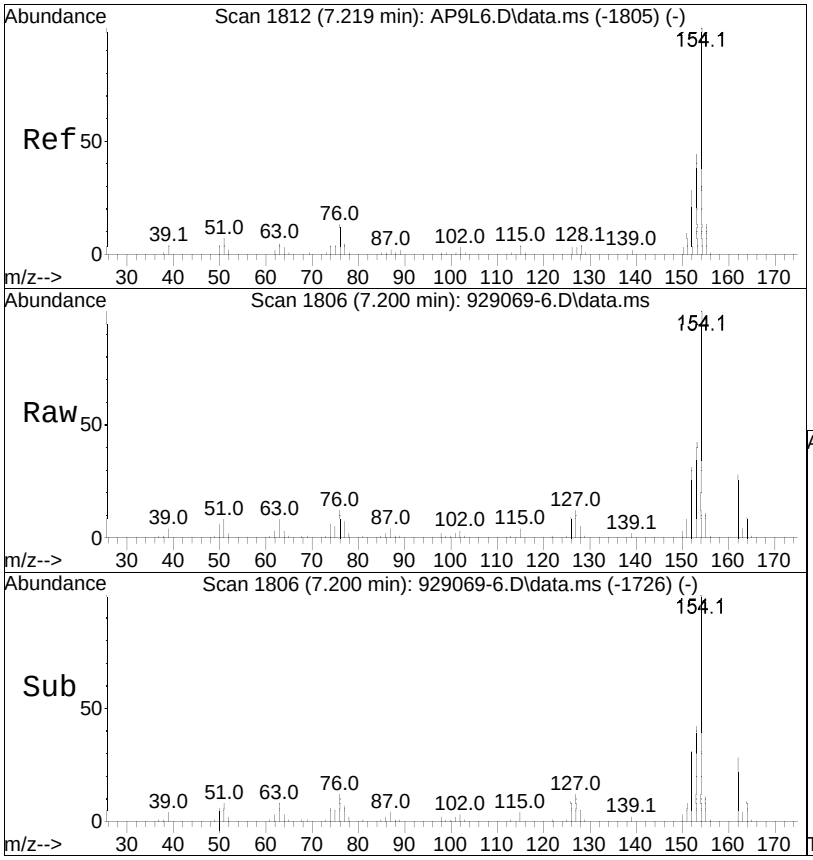


#60
1,2,4,5-Tetrachlorobenzene
Concen: 3.60 ug/ml
RT: 6.911 min Scan# 1713
Delta R.T. 0.003 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:216 Resp: 39821

Ion	Ratio	Lower	Upper
216	100		
214	79.2	63.7	95.5
179	19.1	19.0	28.6

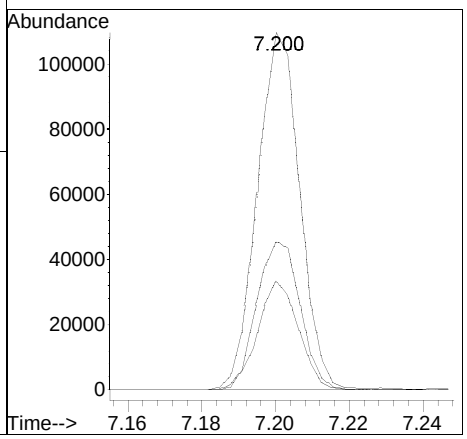


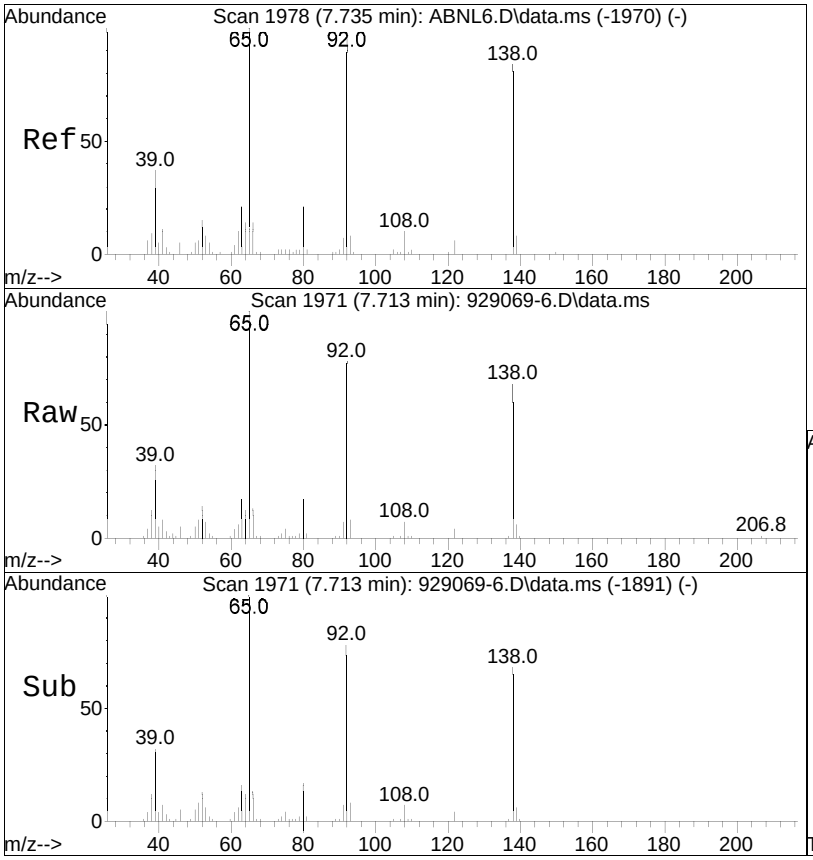


#61
Biphenyl
Concen: 3.80 ug/ml
RT: 7.200 min Scan# 1806
Delta R.T. 0.000 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:154 Resp: 87121

Ion	Ratio	Lower	Upper
154	100		
153	42.9	32.3	48.5
152	29.4	22.5	33.7

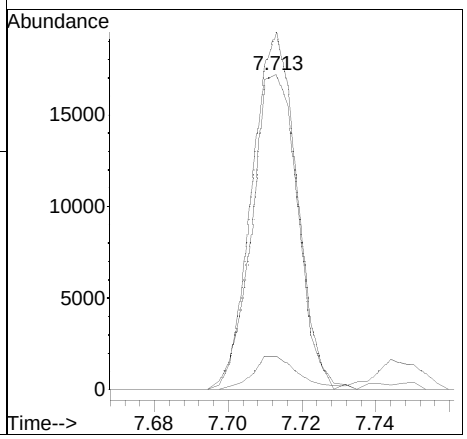


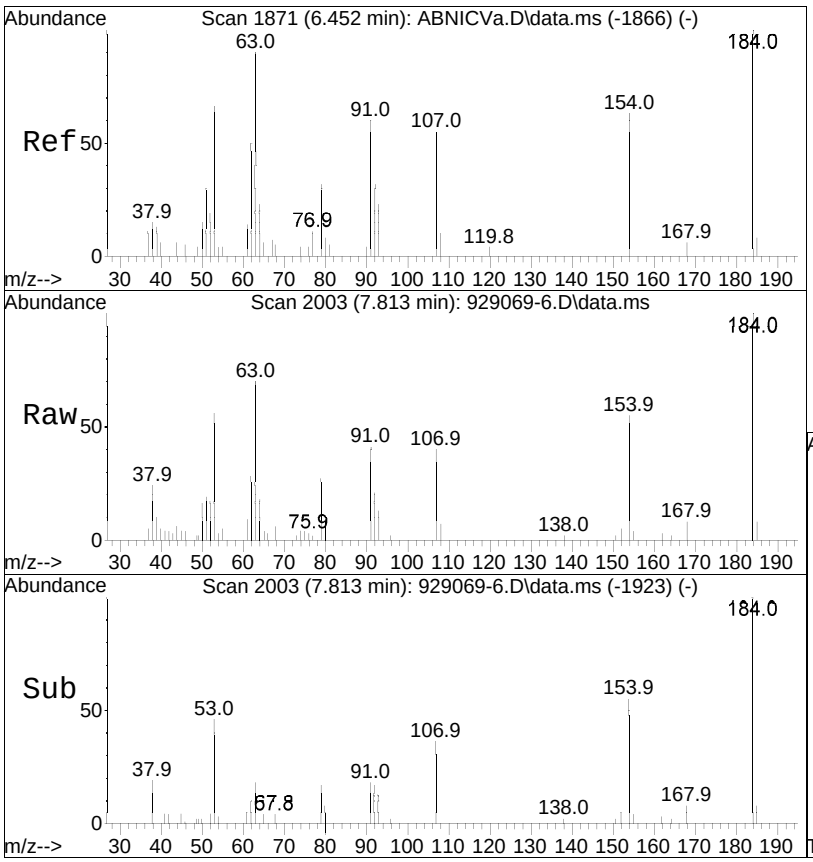


#63
3-Nitroaniline
Concen: 3.93 ug/ml
RT: 7.713 min Scan# 1971
Delta R.T. 0.000 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:138 Resp: 14707

Ion	Ratio	Lower	Upper
138	100		
92	111.0	93.4	140.2
108	10.7	9.5	14.3

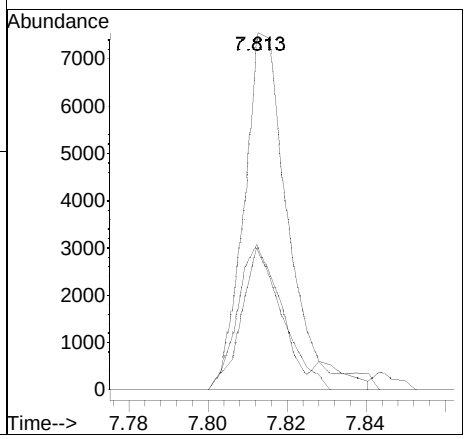


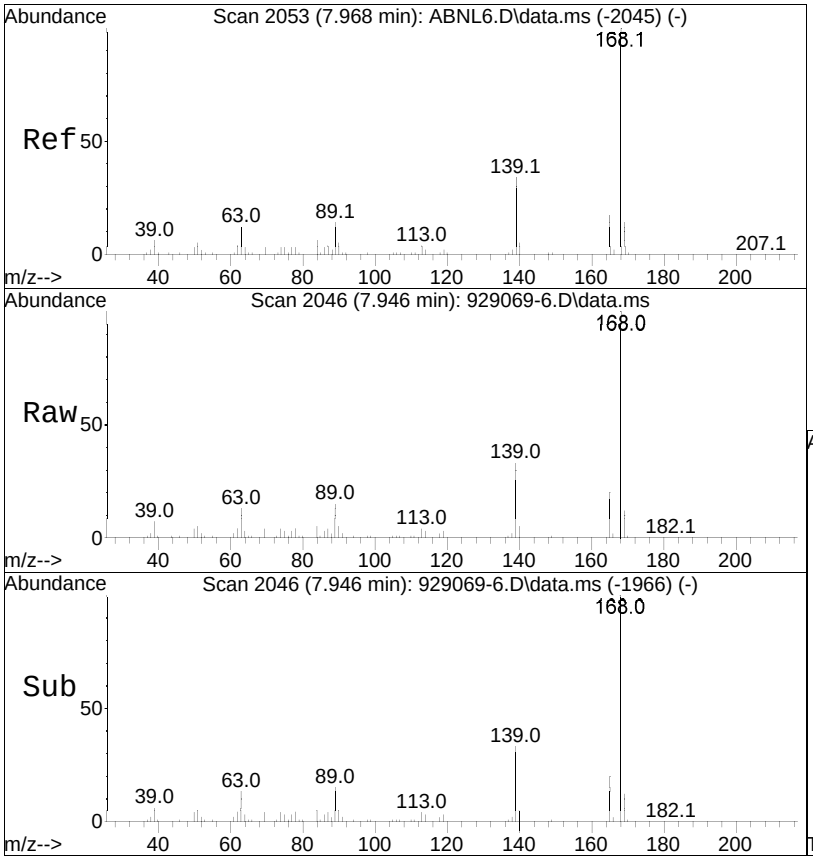


#65
2,4-Dinitrophenol
Concen: 3.05 ug/ml
RT: 7.813 min Scan# 2003
Delta R.T. 0.000 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:184 Resp: 5781

Ion	Ratio	Lower	Upper
184	100		
107	37.7	37.7	56.5
91	40.0	46.3	69.5#

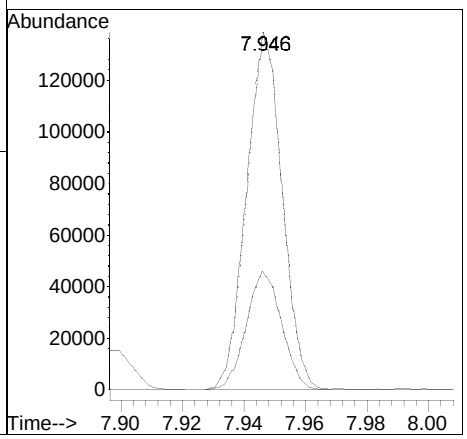


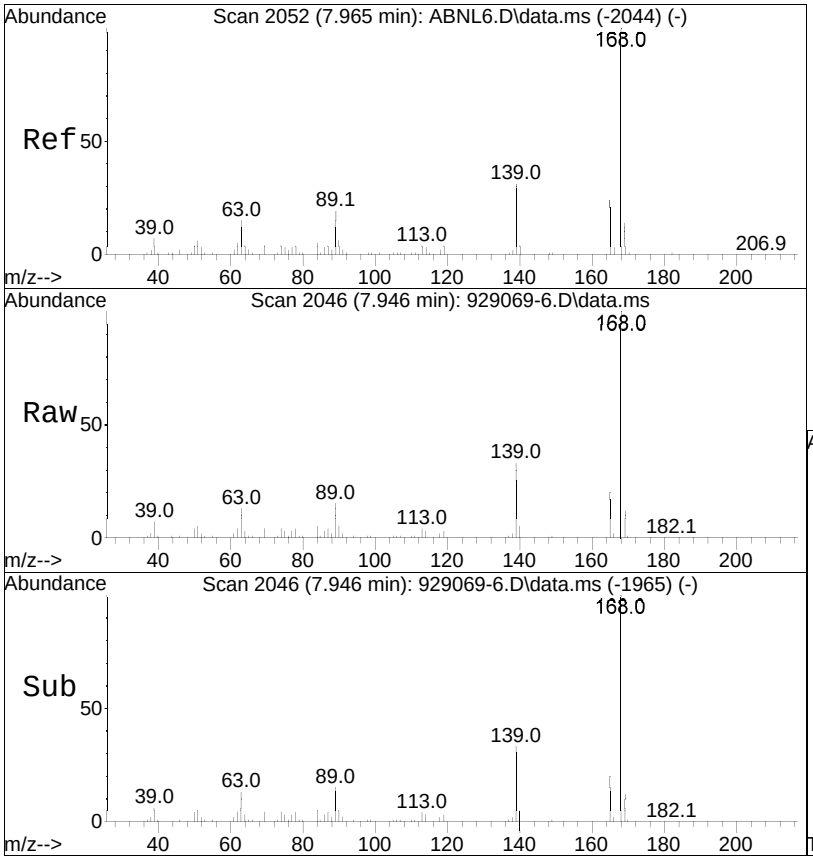


#66
Dibenzofuran
Concen: 4.20 ug/ml
RT: 7.946 min Scan# 2046
Delta R.T. 0.000 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:168 Resp: 110737

Ion	Ratio	Lower	Upper
168	100		
139	33.1	31.4	47.2

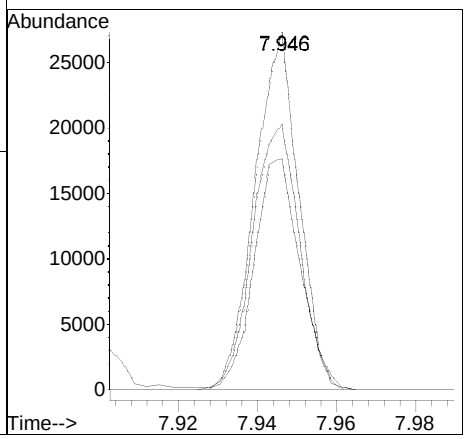


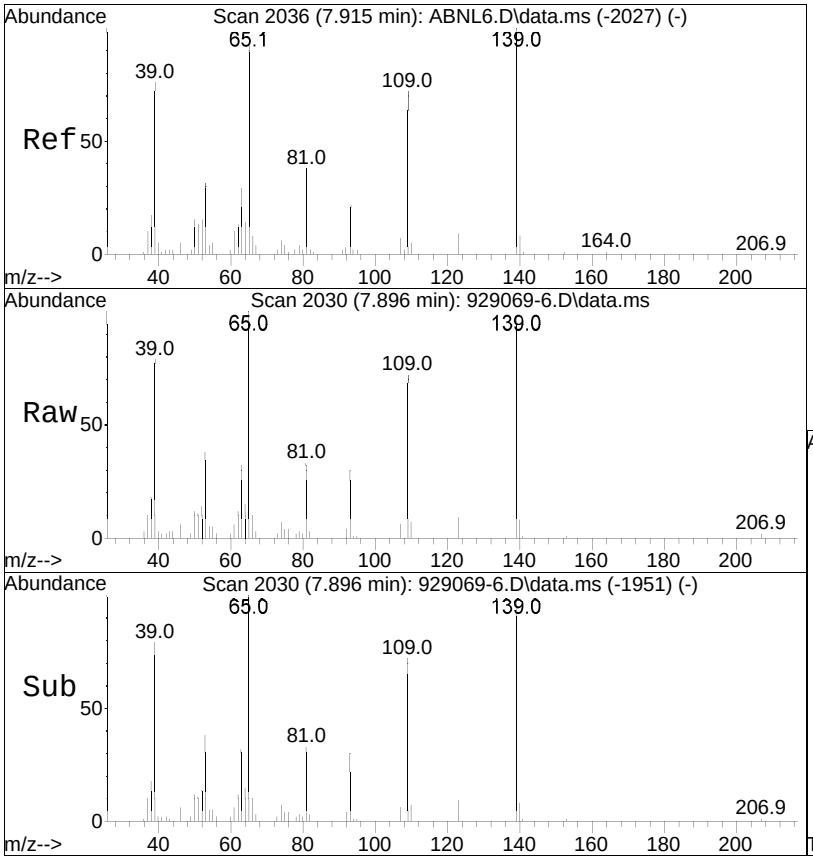


#67
2,4-Dinitrotoluene
Concen: 4.44 ug/ml
RT: 7.946 min Scan# 2046
Delta R.T. 0.003 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:165 Resp: 21003

Ion	Ratio	Lower	Upper
165	100		
89	79.4	72.0	108.0
63	67.3	52.7	79.1

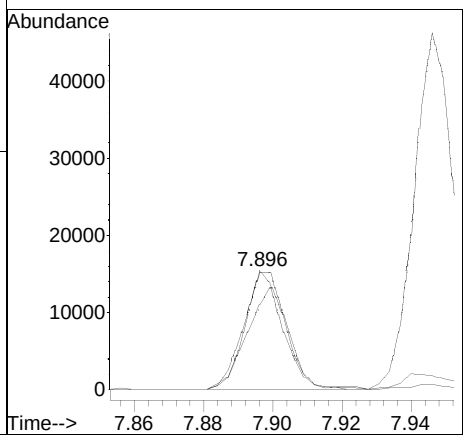


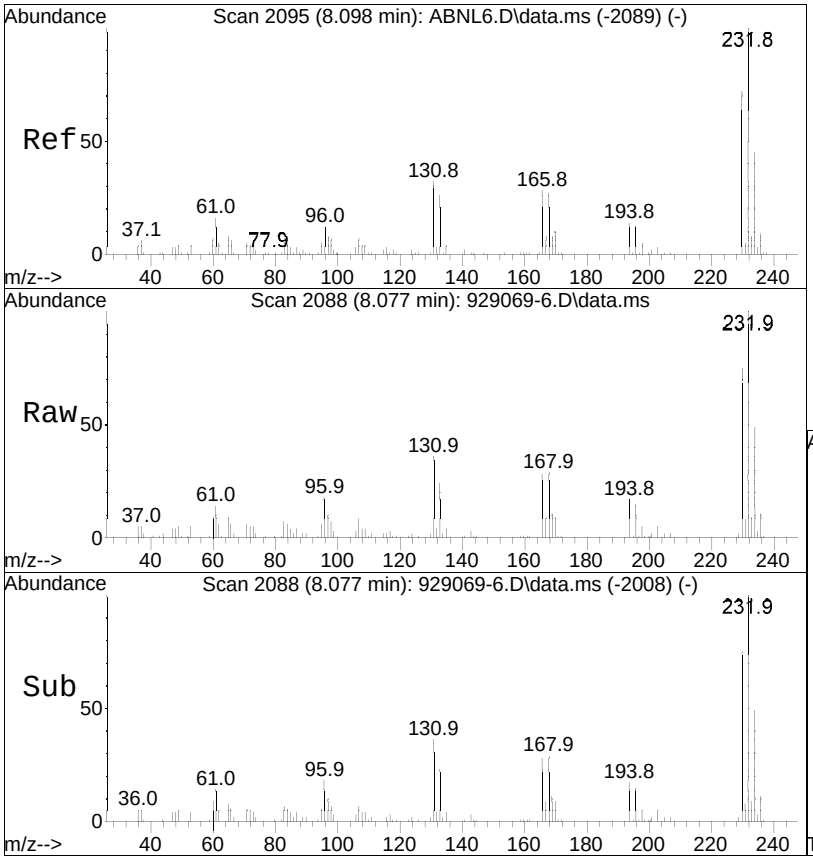


#68
4-Nitrophenol
Concen: 3.93 ug/ml
RT: 7.896 min Scan# 2030
Delta R.T. -0.003 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion: 65 Resp: 12751

Ion	Ratio	Lower	Upper
65	100		
109	80.5	47.4	71.2#
139	99.8	76.6	115.0

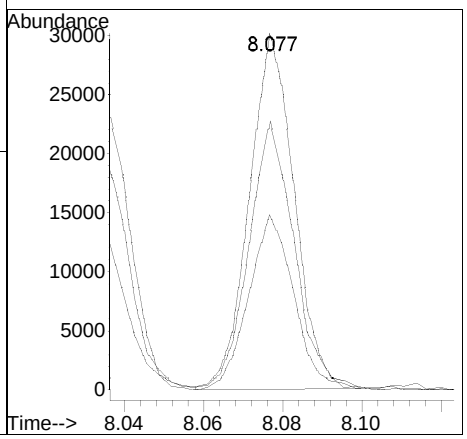


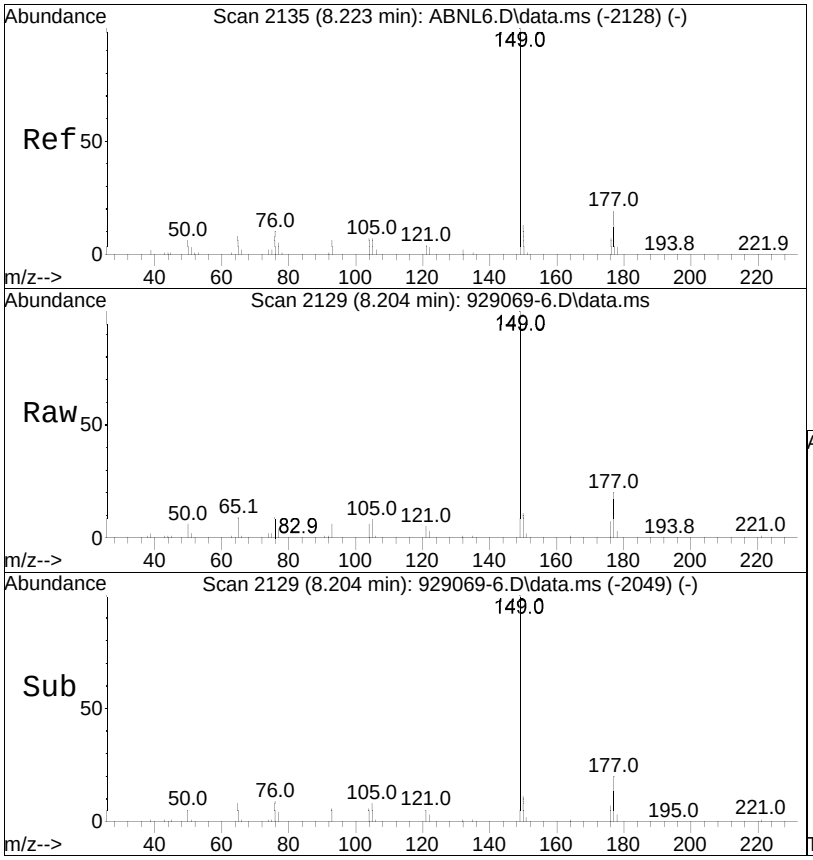


#70
2,3,4,6-Tetrachlorophenol
Concen: 4.20 ug/ml
RT: 8.077 min Scan# 2088
Delta R.T. 0.000 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:232 Resp: 23660

Ion	Ratio	Lower	Upper
232	100		
230	76.7	61.8	92.8
234	50.1	36.2	54.2

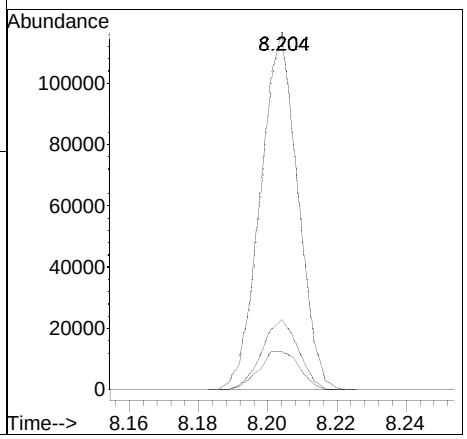


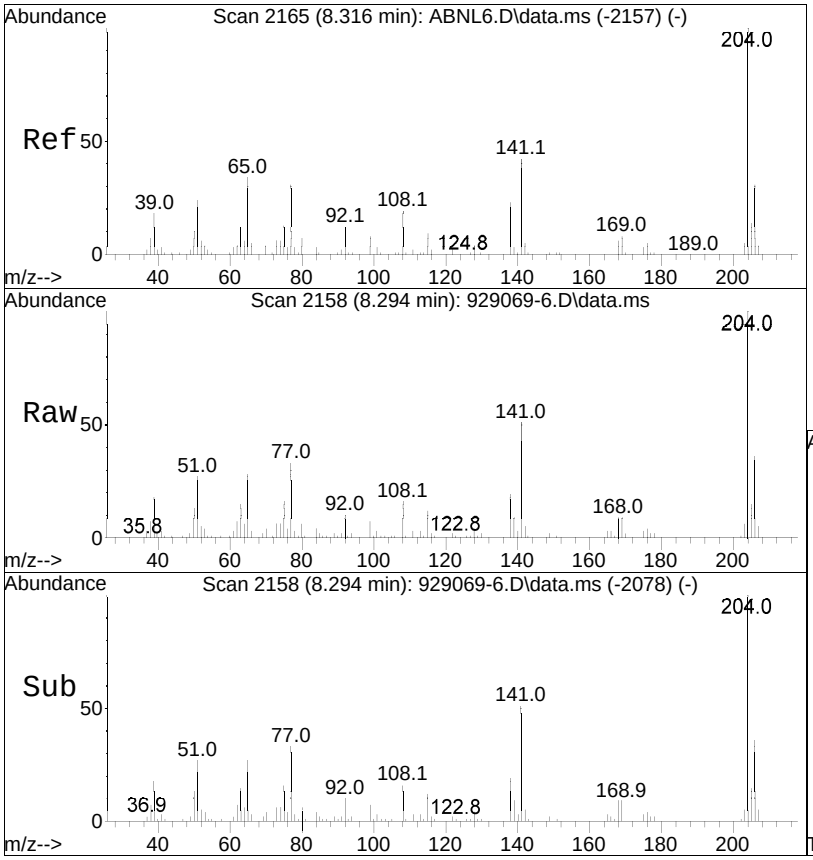


#71
Diethyl phthalate
Concen: 4.02 ug/ml
RT: 8.204 min Scan# 2129
Delta R.T. 0.000 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:149 Resp: 86776

Ion	Ratio	Lower	Upper
149	100		
177	19.6	16.1	24.1
150	11.9	9.4	14.2

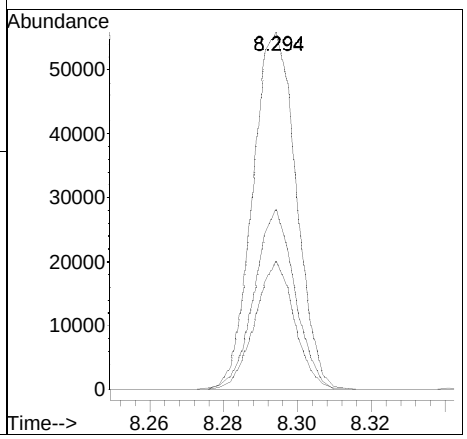


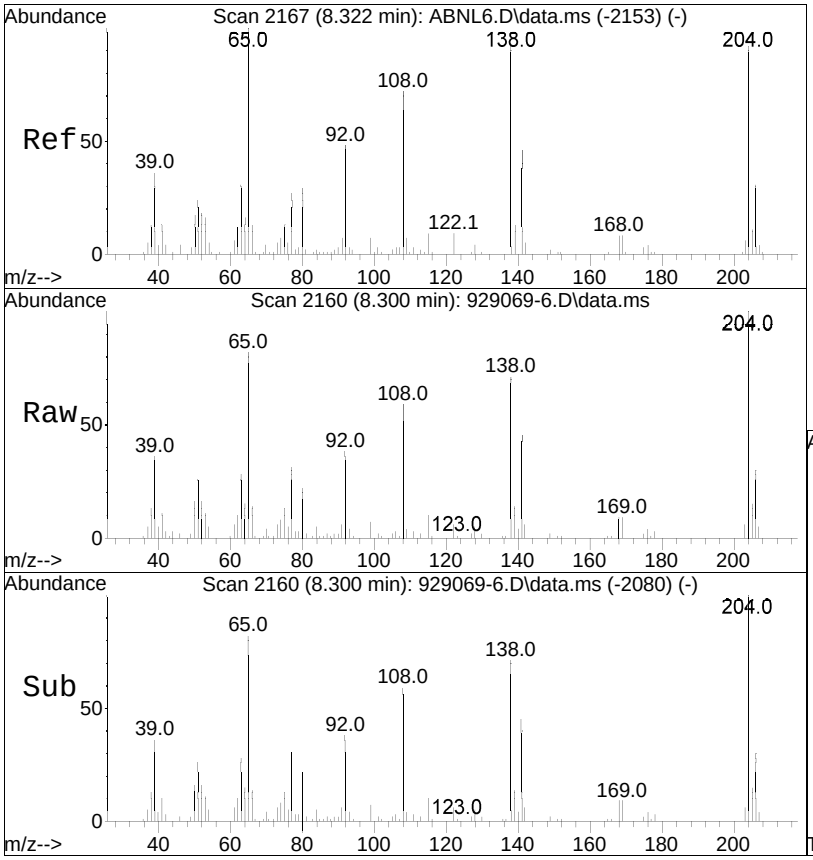


#73
4-Chlorophenyl phenyl ether
Concen: 4.09 ug/ml
RT: 8.294 min Scan# 2158
Delta R.T. 0.000 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:204 Resp: 45464

Ion	Ratio	Lower	Upper
204	100		
206	32.9	25.8	38.6
141	47.2	53.6	80.4#

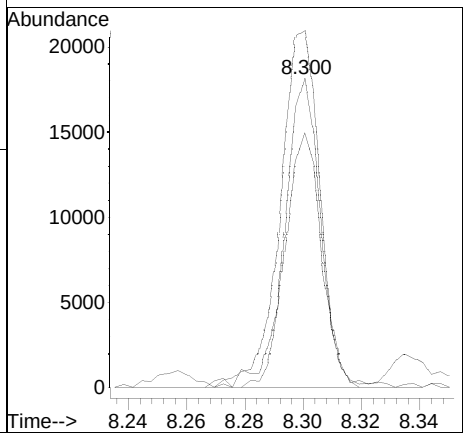


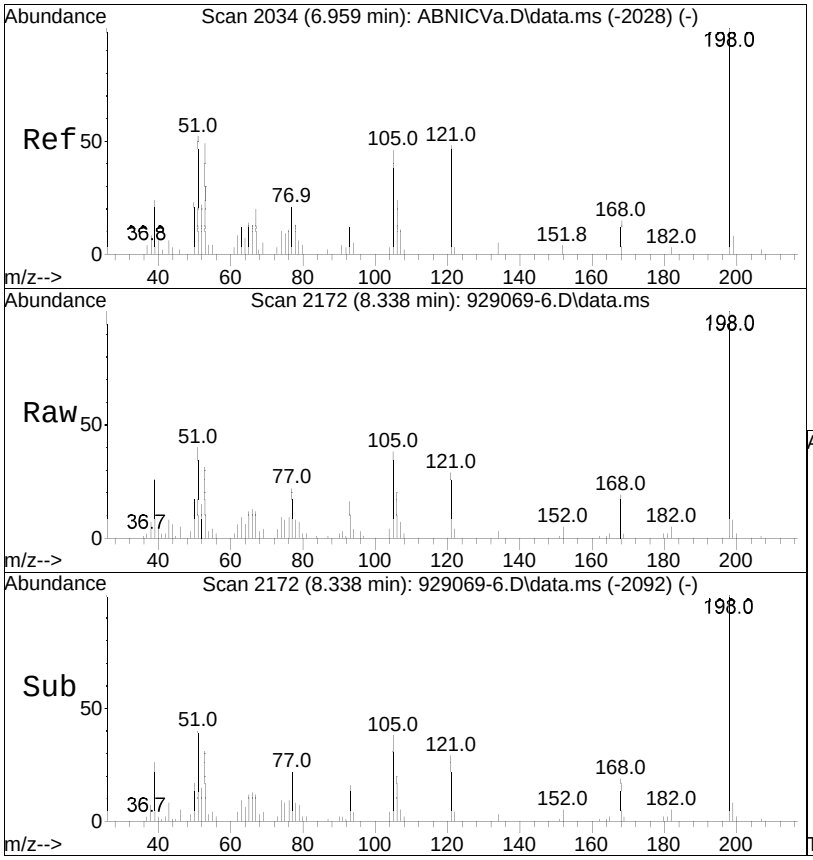


#74
4-Nitroaniline
Concen: 3.91 ug/ml
RT: 8.300 min Scan# 2160
Delta R.T. 0.000 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:138 Resp: 15605

Ion	Ratio	Lower	Upper
138	100		
108	83.9	52.1	78.1#
65	126.7	115.0	172.6

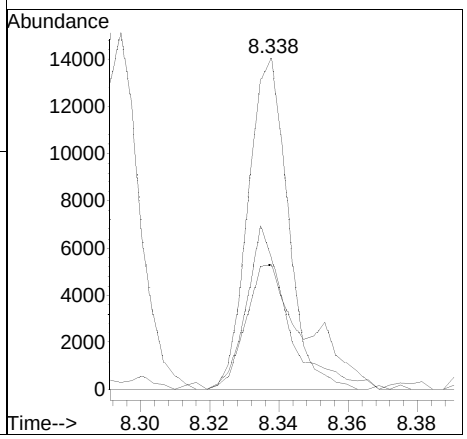


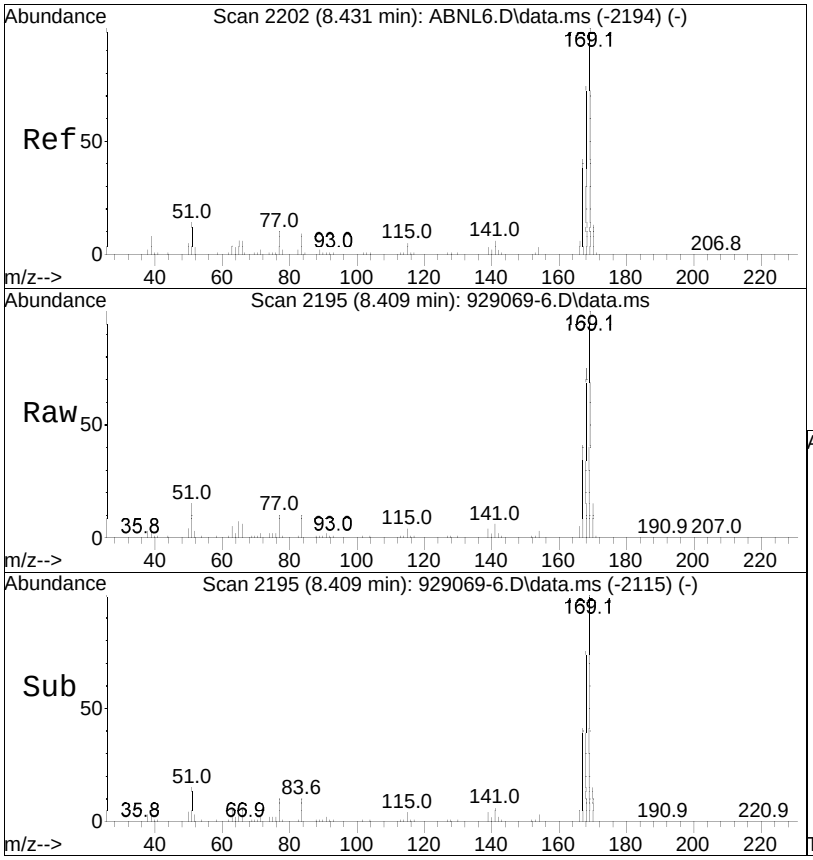


#75
4,6-Dinitro-o-cresol
Concen: 4.09 ug/ml
RT: 8.338 min Scan# 2172
Delta R.T. 0.000 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:198 Resp: 11296

Ion	Ratio	Lower	Upper
198	100		
51	51.0	76.0	114.0#
105	56.5	45.6	68.4

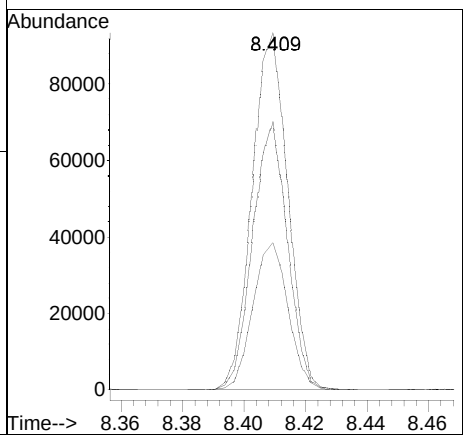


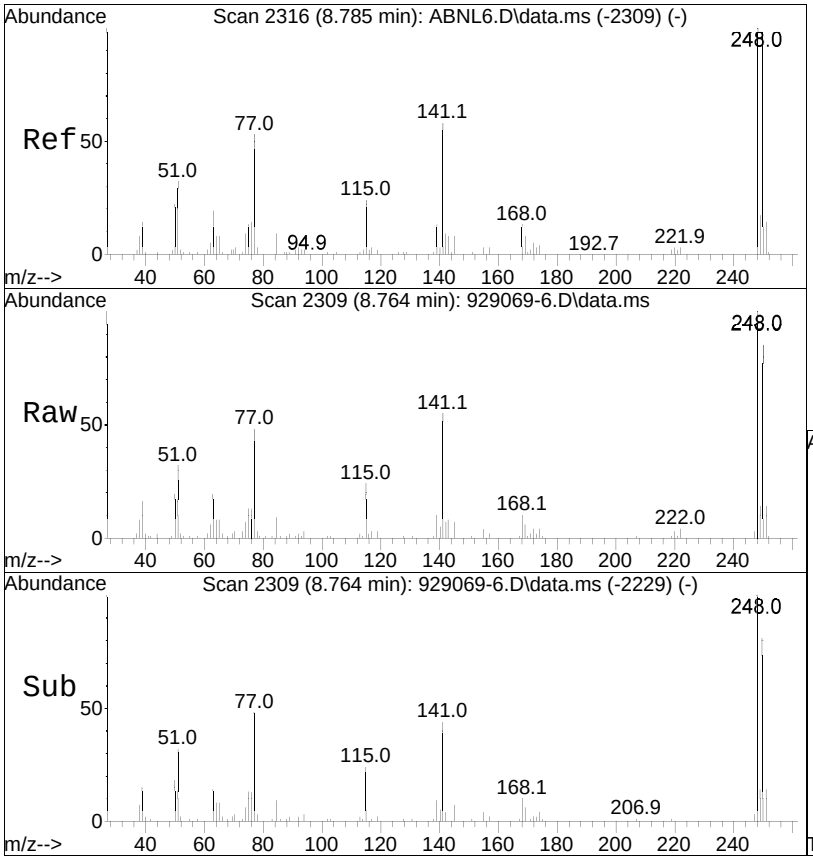


#76
NDPA/DPA
Concen: 4.16 ug/ml
RT: 8.409 min Scan# 2195
Delta R.T. 0.000 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:169 Resp: 75206

Ion	Ratio	Lower	Upper
169	100		
168	73.0	54.0	81.0
167	40.9	28.6	42.8

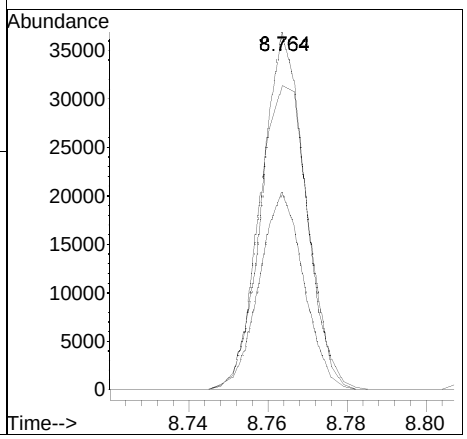


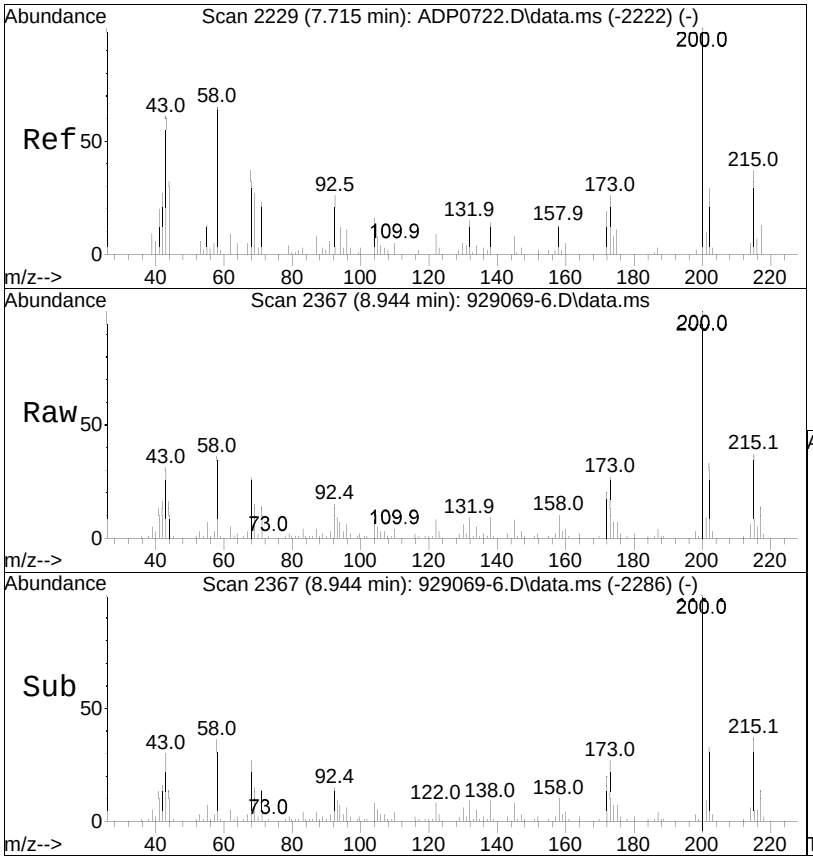


#79
4-Bromophenyl phenyl ether
Concen: 4.04 ug/ml
RT: 8.764 min Scan# 2309
Delta R.T. 0.000 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:248 Resp: 27887

Ion	Ratio	Lower	Upper
248	100		
141	57.1	76.6	114.8#
250	96.7	77.3	115.9

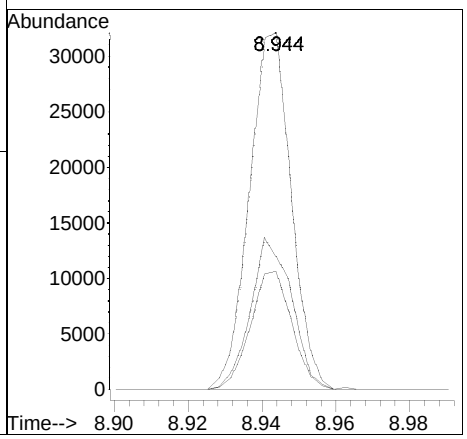


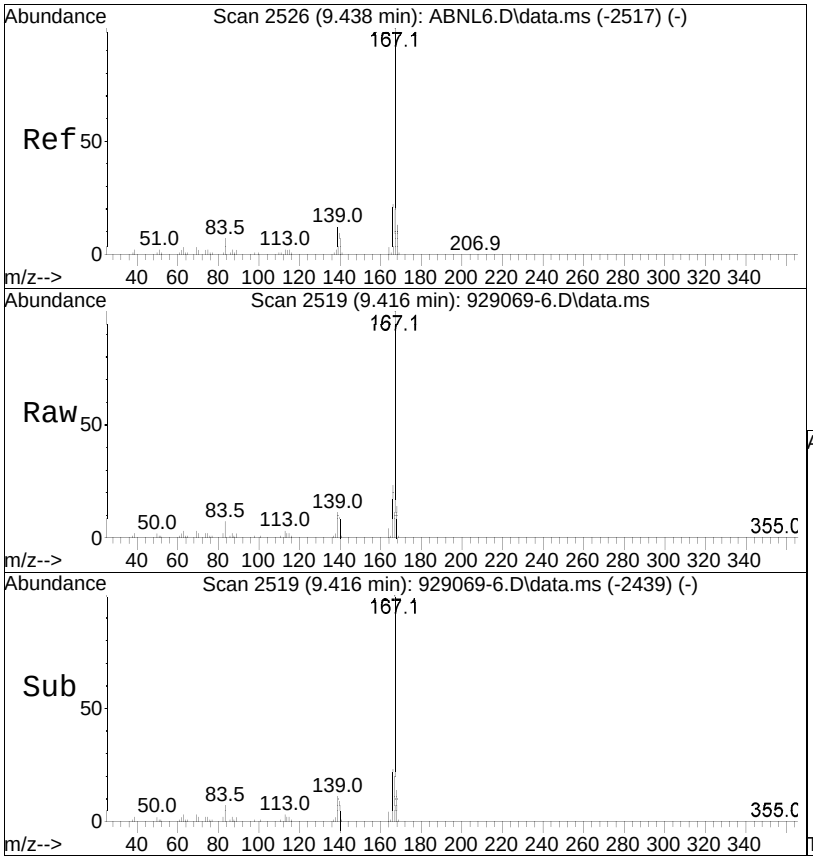


#86
Atrazine
Concen: 3.75 ug/ml
RT: 8.944 min Scan# 2367
Delta R.T. 0.000 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:200 Resp: 25112

Ion	Ratio	Lower	Upper
200	100		
202	32.9	25.8	38.6
215	41.8	40.2	60.4

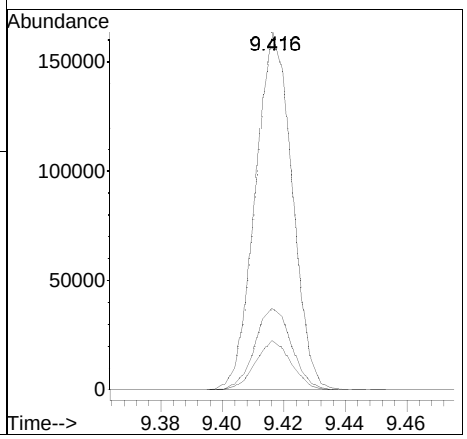


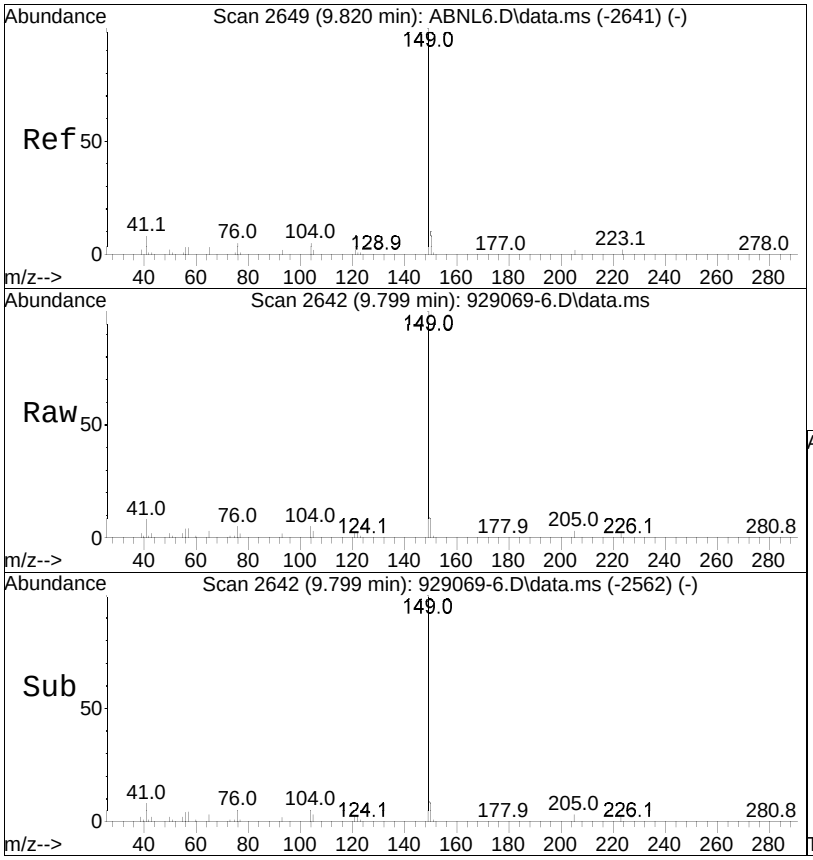


#90
Carbazole
Concen: 4.37 ug/ml
RT: 9.416 min Scan# 2519
Delta R.T. 0.000 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:167 Resp: 134829

Ion	Ratio	Lower	Upper
167	100		
168	13.5	10.6	15.8
166	22.9	17.4	26.0

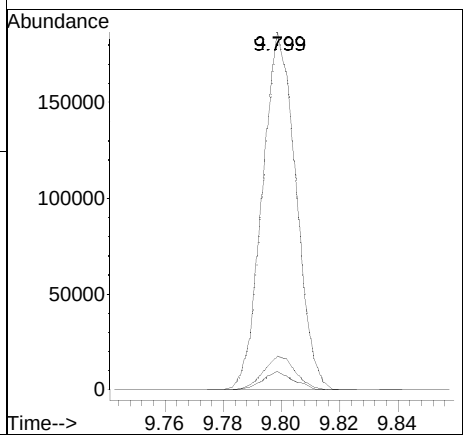


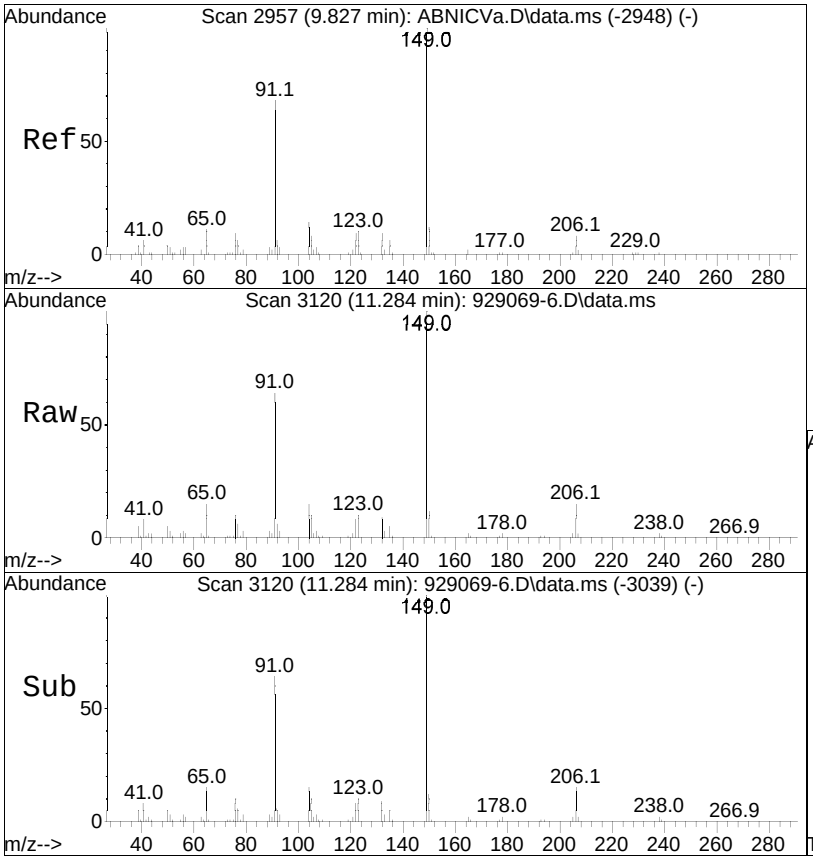


#91
Di-n-butylphthalate
Concen: 4.39 ug/ml
RT: 9.799 min Scan# 2642
Delta R.T. 0.000 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:149 Resp: 147487

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.0	10.6
104	4.8	4.5	6.7

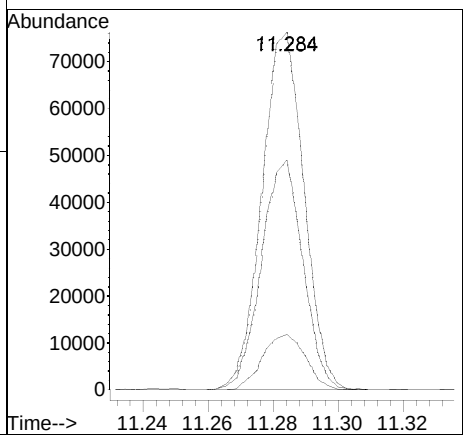


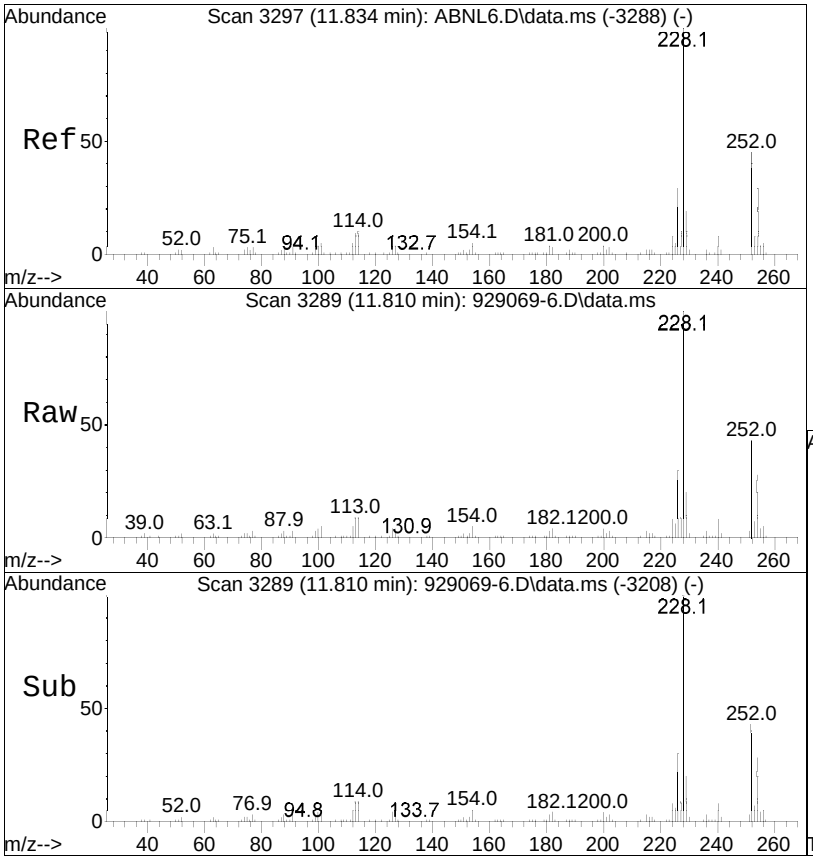


#96
Butyl benzyl phthalate
Concen: 4.41 ug/ml
RT: 11.284 min Scan# 3120
Delta R.T. 0.003 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:149 Resp: 67900

Ion	Ratio	Lower	Upper
149	100		
91	63.7	63.3	94.9
206	16.0	13.9	20.9

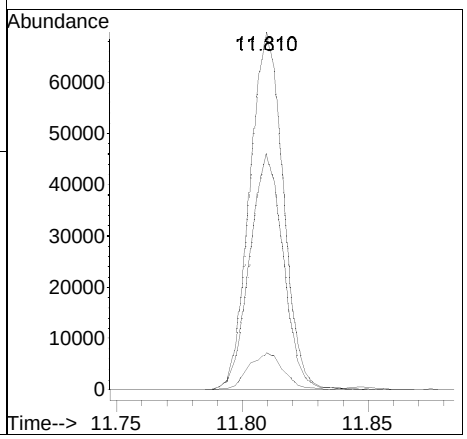


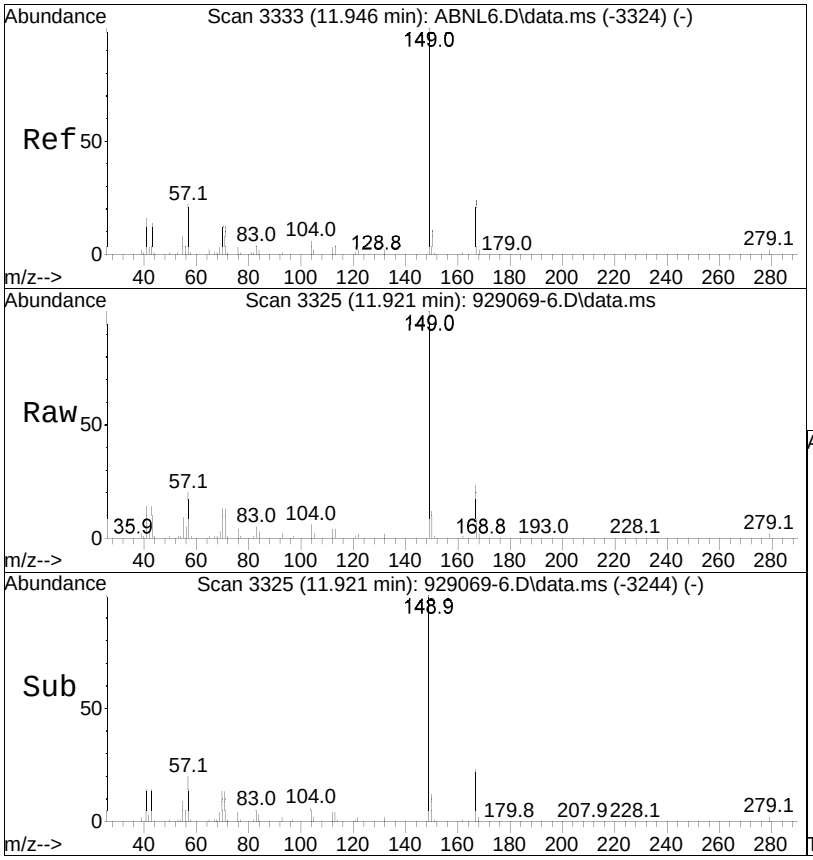


#105
3,3'-Dichlorobenzidine
Concen: 4.03 ug/ml
RT: 11.810 min Scan# 3289
Delta R.T. 0.003 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:252 Resp: 64369

Ion	Ratio	Lower	Upper
252	100		
126	10.9	14.5	21.7#
254	66.0	51.2	76.8

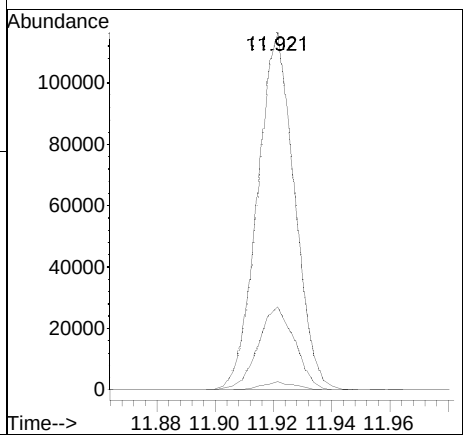


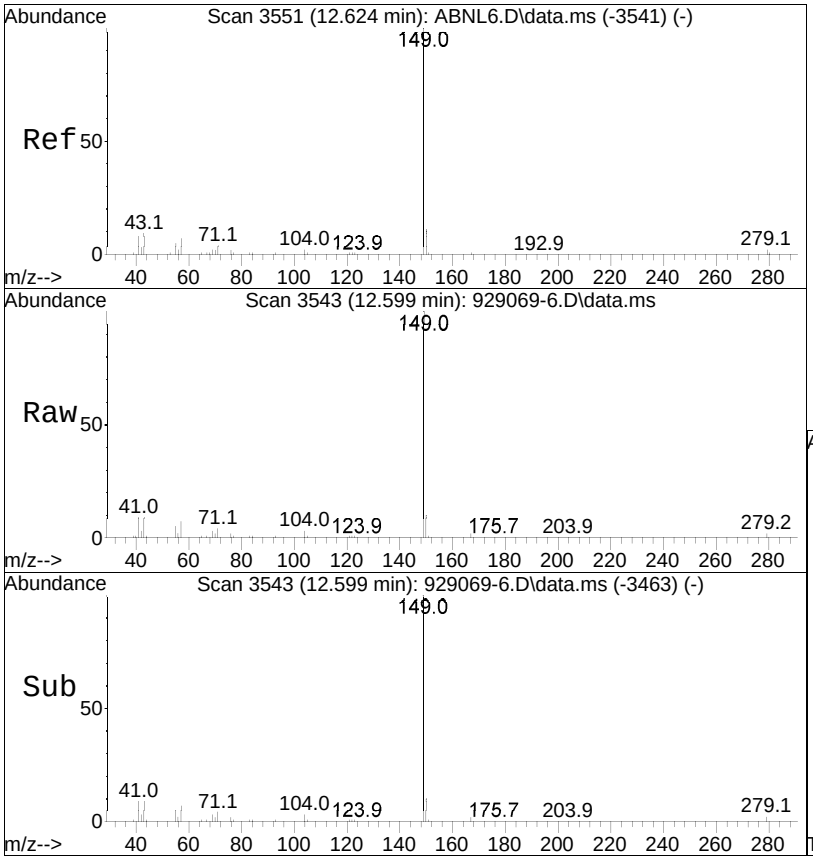


#107
Bis(2-ethylhexyl)phthalate
Concen: 4.52 ug/ml
RT: 11.921 min Scan# 3325
Delta R.T. 0.003 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:149 Resp: 101546

Ion	Ratio	Lower	Upper
149	100		
167	23.3	22.1	33.1
279	2.0	3.0	4.4#

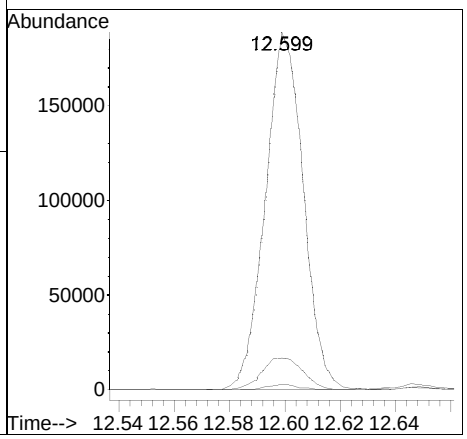




#108
Di-n-octylphthalate
Concen: 4.63 ug/ml
RT: 12.599 min Scan# 3543
Delta R.T. 0.000 min
Lab File: 929069-6.D
Acq: 5 Jun 2024 1:31 pm

Tgt Ion:149 Resp: 177714

Ion	Ratio	Lower	Upper
149	100		
43	9.5	18.8	28.2#
167	1.4	1.3	1.9



Manual Integration Report

Data Path	: I:\8270\Dakota\240605RVT\	QMethod	: FS240531RVTDakota.m
Data File	: 929069-6.D	Operator	: Dakota:sz
Date Inj'd	: 6/5/2024 1:31 pm	Instrument	: Dakota
Sample	: WG1929069-6,32,,gmr	Quant Date	: 6/5/2024 1:50 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : 929069-5.D
Acq On : 5 Jun 2024 12:24 pm
Operator : Dakota:sz
Sample : WG1929069-5,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 12:43:48 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 12:44:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.810	152	25190	4.000	ug/ml		0.00
Standard Area 1 = 25549			Recovery = 98.59%				
27) IS2_1,4-Dichlorobenzen...	4.810	152	25190	4.000	ug/ml		0.00
Standard Area 3 = 24259			Recovery = 103.84%				
34) IS1_Naphthalene-d8	6.044	136	89200	4.000	ug/ml	#	0.00
Standard Area 1 = 92758			Recovery = 96.16%				
54) IS2_Naphthalene-d8	6.044	136	89200	4.000	ug/ml	#	0.00
Standard Area 3 = 86554			Recovery = 103.06%				
62) IS1_Acenaphthene-d10	7.747	164	54636	4.000	ug/ml		0.00
Standard Area 1 = 60587			Recovery = 90.18%				
82) IS2_Acenaphthene-d10	7.747	164	54636	4.000	ug/ml		0.00
Standard Area 3 = 57668			Recovery = 94.74%				
85) IS3_Acenaphthene-d10	7.747	164	54636	4.000	ug/ml		0.00
Standard Area 2 = 66116			Recovery = 82.64%				
87) IS1_Phenanthrene-d10	9.180	188	116965	4.000	ug/ml		0.00
Standard Area 1 = 137458			Recovery = 85.09%				
99) IS3_Phenanthrene-d10	9.180	188	116965	4.000	ug/ml		0.00
Standard Area 2 = 156367			Recovery = 74.80%				
103) IS1_Chrysene-d12	11.825	240	110353	4.000	ug/ml		0.00
Standard Area 1 = 145741			Recovery = 75.72%				
112) IS1_Perylene-d12	13.295	264	121802	4.000	ug/ml		0.00
Standard Area 1 = 171394			Recovery = 71.07%				
System Monitoring Compounds							
4) 2-Fluorophenol	3.545	112	24437	3.869	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 193.45%#				
7) Phenol-d6	4.484	99	27554	3.517	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 175.85%#				
19) Nitrobenzene-d5	5.348	82	14907	2.149	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 214.90%#				
45) 2-Fluorobiphenyl	7.110	172	44143	2.153	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 215.30%#				
78) 2,4,6-Tribromophenol	8.512	330	12354	4.846	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 242.30%#				
95) 4-Terphenyl-d14	10.759	244	63533	2.170	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 217.00%#				

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : 929069-5.D
Acq On : 5 Jun 2024 12:24 pm
Operator : Dakota:sz
Sample : WG1929069-5,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 12:43:48 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 12:44:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.177	74	13383	3.304	ug/ml#	92
3) Pyridine	2.221	79	15634	2.361	ug/ml#	56
5) Aniline	4.490	93	32892	3.215	ug/ml#	45
6) 2-Chlorophenol	4.605	128	31901	4.518	ug/ml#	88
8) Phenol	4.496	94	31998	3.647	ug/ml#	56
9) Bis(2-chloroethyl)ether	4.568	93	25530	4.278	ug/ml	97
10) 1,3-Dichlorobenzene	4.754	146	36922	4.124	ug/ml	93
11) 1,4-Dichlorobenzene	4.826	146	38501	4.332	ug/ml	95
12) 1,2-Dichlorobenzene	4.972	146	38206	4.447	ug/ml	95
13) Benzyl alcohol	4.956	79	23948	4.158	ug/ml	99
14) Bis(2-chloroisopropyl)...	5.099	45	43653	4.393	ug/ml#	54
15) 2-Methylphenol	5.084	108	27229	4.612	ug/ml	98
17) n-Nitrosodi-n-propylamine	5.223	70	22861	4.309	ug/ml#	87
18) 3-Methylphenol/4-Methy...	5.239	108	27945	4.342	ug/ml	100
20) Nitrobenzene	5.366	77	28321	4.147	ug/ml	96
21) Isophorone	5.606	82	56117	4.244	ug/ml	95
22) 2-Nitrophenol	5.680	139	13789	4.419	ug/ml	90
23) 2,4-Dimethylphenol	5.749	107	26550	4.336	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.836	93	35467	4.477	ug/ml#	95
25) 2,4-Dichlorophenol	5.917	162	32945	4.646	ug/ml#	91
26) 1,2,4-Trichlorobenzene	5.997	180	36922	4.338	ug/ml	93
28) Benzaldehyde	4.378	105	25746	4.262	ug/ml	98
29) Acetophenone	5.205	105	43942	4.379	ug/ml#	80
36) Benzoic Acid	5.798	105	2116	1.465	ug/ml#	76
37) 4-Chloroaniline	6.128	65	10199	3.881	ug/ml	85
39) p-Chloro-m-cresol	6.622	107	26854	4.616	ug/ml	92
42) Hexachlorocyclopentadiene	6.914	237	19398	3.607	ug/ml	99
43) 2,4,6-Trichlorophenol	7.026	196	26872	4.515	ug/ml	99
44) 2,4,5-Trichlorophenol	7.057	196	29348	4.534	ug/ml	99
47) 2-Nitroaniline	7.315	138	16990	4.265	ug/ml	86
50) Dimethyl phthalate	7.514	163	84600	4.236	ug/ml#	98
52) 2,6-Dinitrotoluene	7.558	165	14492	4.130	ug/ml#	83
59) Caprolactam	6.429	55	5867	2.039	ug/ml#	75
60) 1,2,4,5-Tetrachloroben...	6.911	216	41345	4.129	ug/ml#	95
61) Biphenyl	7.200	154	87804	4.231	ug/ml	97
63) 3-Nitroaniline	7.716	138	14610	4.527	ug/ml	97
65) 2,4-Dinitrophenol	7.816	184	7061	4.059	ug/ml	86

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : 929069-5.D
Acq On : 5 Jun 2024 12:24 pm
Operator : Dakota:sz
Sample : WG1929069-5,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 12:43:48 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 12:44:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) Dibenzofuran	7.949	168	109081	4.796	ug/ml	89
67) 2,4-Dinitrotoluene	7.946	165	19170	4.695	ug/ml	96
68) 4-Nitrophenol	7.896	65	11618	4.157	ug/ml#	86
70) 2,3,4,6-Tetrachlorophenol	8.077	232	23600	4.862	ug/ml	97
71) Diethyl phthalate	8.204	149	82938	4.459	ug/ml	99
73) 4-Chlorophenyl phenyl ...	8.294	204	44053	4.592	ug/ml#	83
74) 4-Nitroaniline	8.300	138	15848	4.609	ug/ml#	85
75) 4,6-Dinitro-o-cresol	8.338	198	11088	4.593	ug/ml#	62
76) NDPA/DPA	8.409	169	72931	4.678	ug/ml	92
77) Azobenzene	8.443	77	71741	4.600	ug/ml	97
79) 4-Bromophenyl phenyl e...	8.767	248	27754	4.658	ug/ml#	78
84) Pentachloronitrobenzene	9.028	237	11041	5.036	ug/ml#	77
86) Atrazine	8.944	200	23939	4.140	ug/ml	92
90) Carbazole	9.416	167	128229	4.621	ug/ml	99
91) Di-n-butylphthalate	9.799	149	139313	4.619	ug/ml	98
93) Benzidine	10.504	184	39199	1.828	ug/ml#	93
96) Butyl benzyl phthalate	11.284	149	61701	4.464	ug/ml	86
101) Parathion	9.960	109	11237	4.977	ug/ml	92
105) 3,3'-Dichlorobenzidine	11.809	252	58859	4.511	ug/ml#	96
107) Bis(2-ethylhexyl)phtha...	11.921	149	89284	4.858	ug/ml#	92
108) Di-n-octylphthalate	12.599	149	146935	4.687	ug/ml#	74

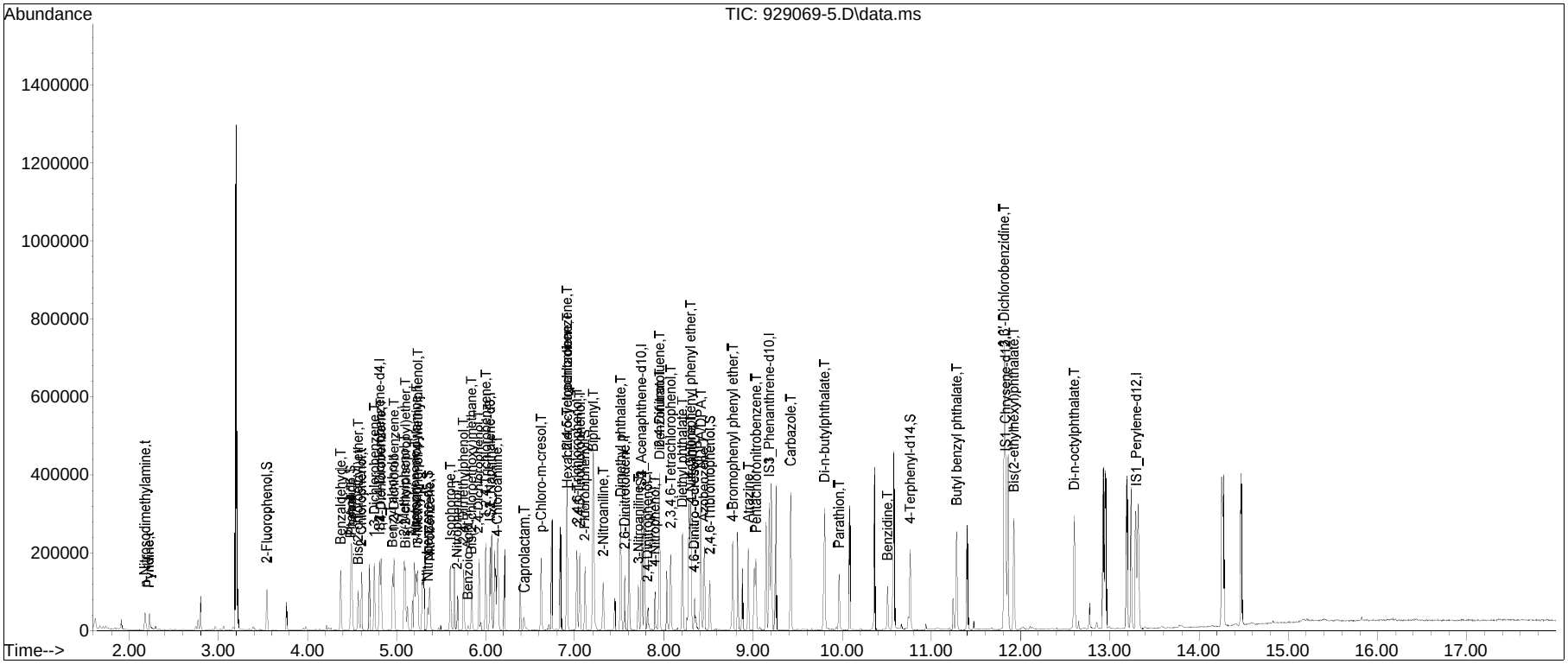
(#) = qualifier out of range (m) = manual integration (+) = signals summed

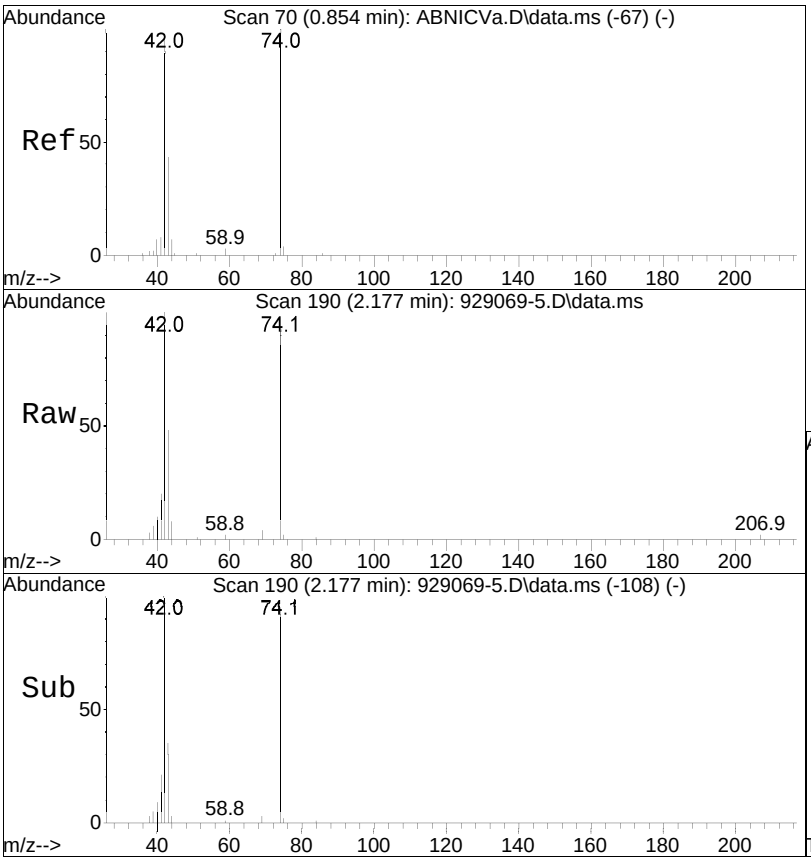
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : 929069-5.D
Acq On : 5 Jun 2024 12:24 pm
Operator : Dakota:sz
Sample : WG1929069-5,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 12:43:48 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 12:44:22 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90605.D•

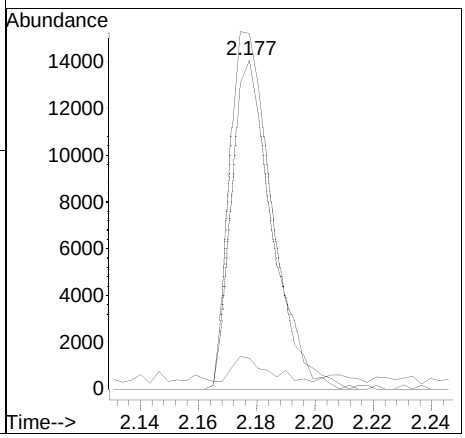


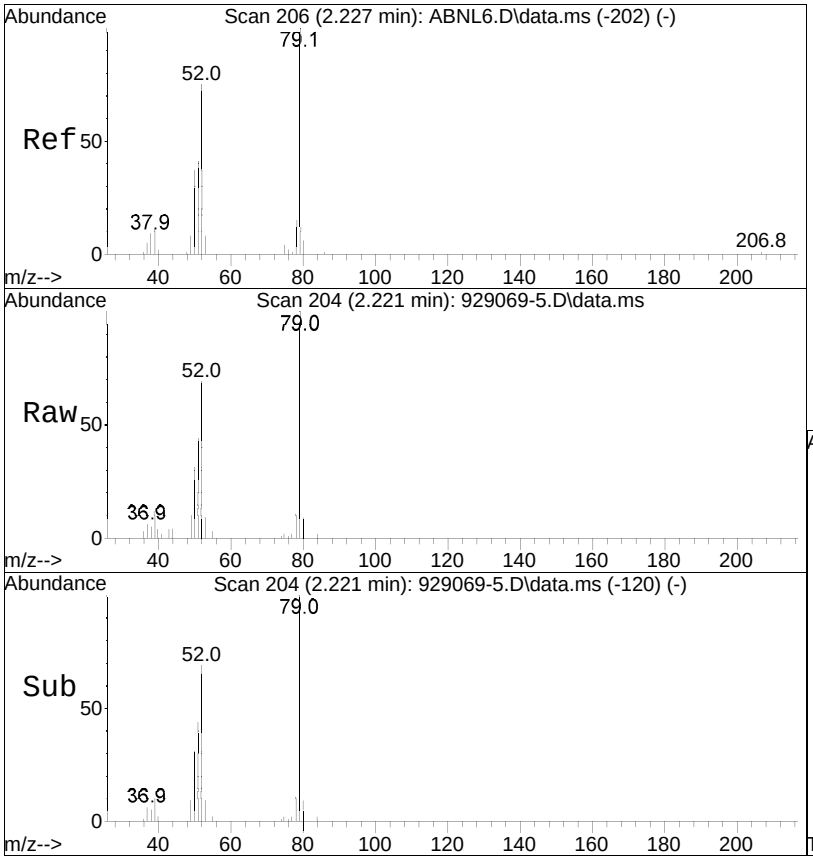


#2
n-Nitrosodimethylamine
Concen: 3.30 ug/ml
RT: 2.177 min Scan# 190
Delta R.T. 0.006 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion: 74 Resp: 13383

Ion	Ratio	Lower	Upper
74	100		
42	115.9	100.0	150.0
44	6.3	6.7	10.1#

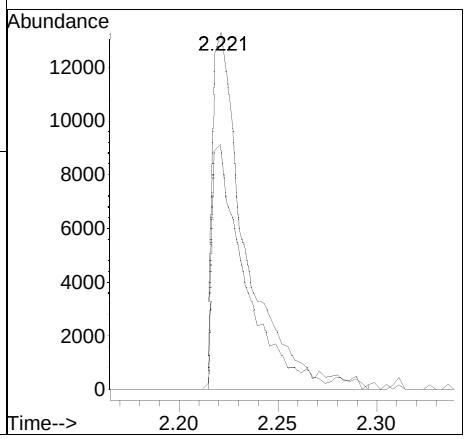


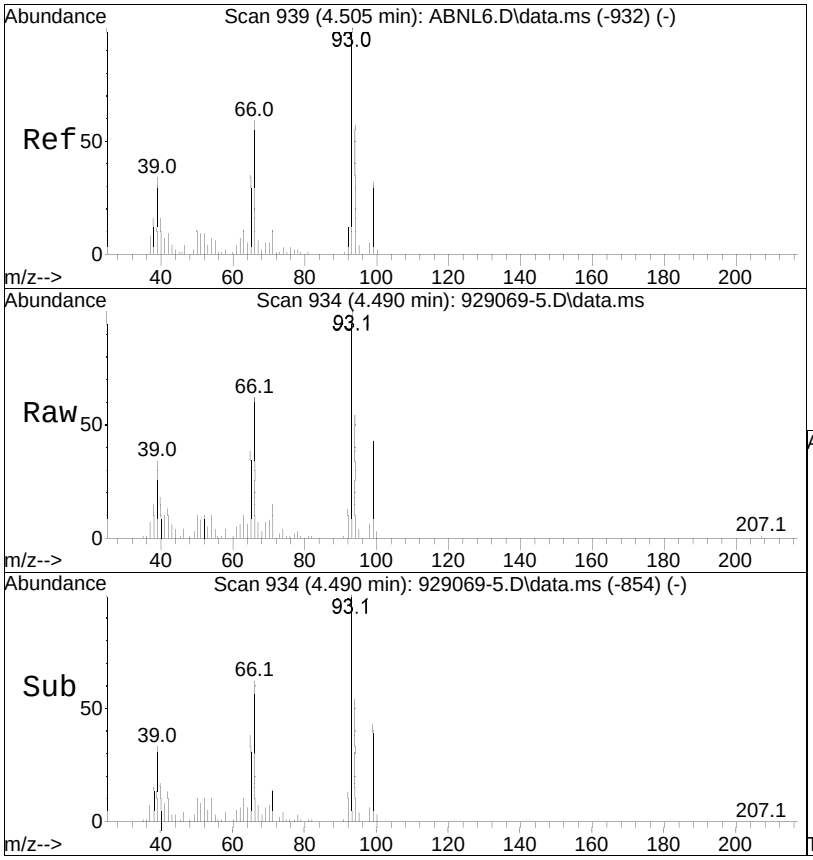


#3
Pyridine
Concen: 2.36 ug/ml
RT: 2.221 min Scan# 204
Delta R.T. 0.012 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion: 79 Resp: 15634

Ion	Ratio	Lower	Upper
79	100		
52	68.4	93.1	139.7#

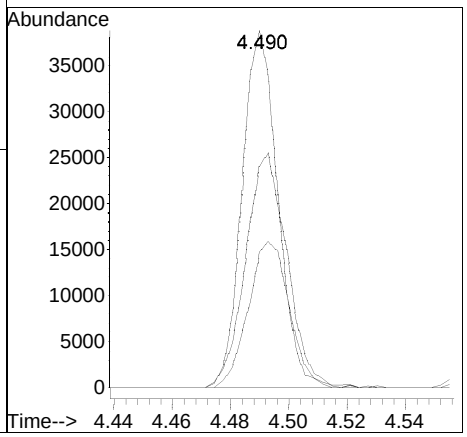


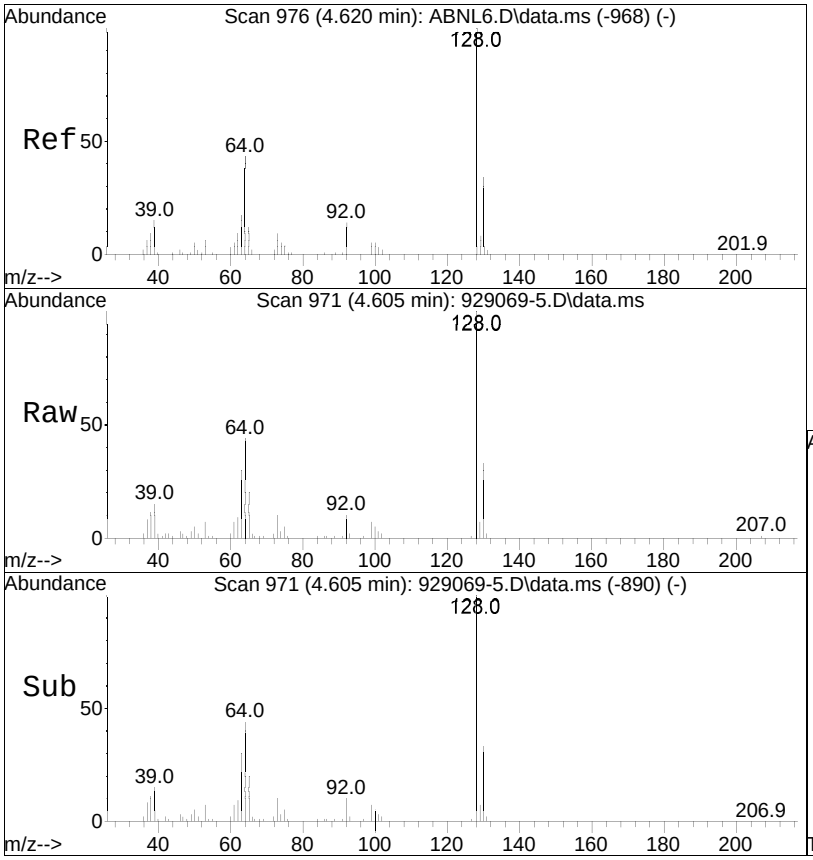


#5
Aniline
Concen: 3.21 ug/ml
RT: 4.490 min Scan# 934
Delta R.T. 0.000 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion: 93 Resp: 32892

Ion	Ratio	Lower	Upper
93	100		
66	75.9	32.6	49.0#
65	47.0	17.6	26.4#

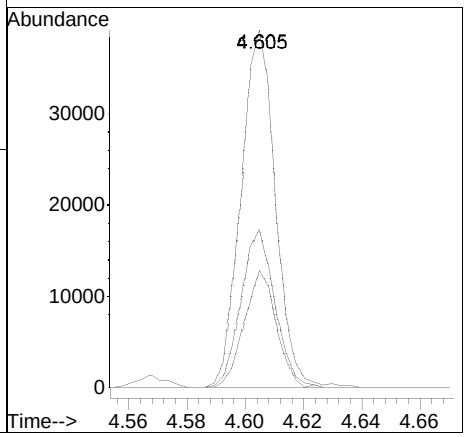


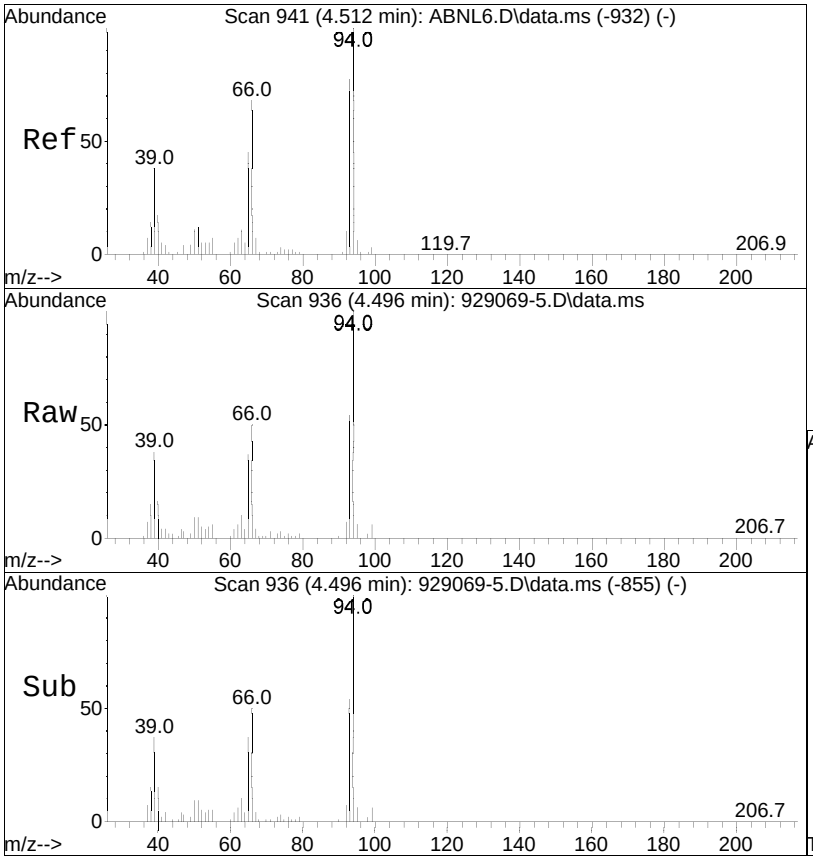


#6
2-Chlorophenol
Concen: 4.52 ug/ml
RT: 4.605 min Scan# 971
Delta R.T. 0.003 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:128 Resp: 31901

Ion	Ratio	Lower	Upper
128	100		
64	43.6	45.1	67.7#
130	30.7	26.2	39.4

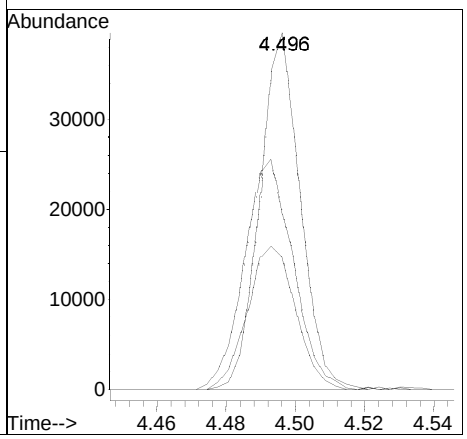


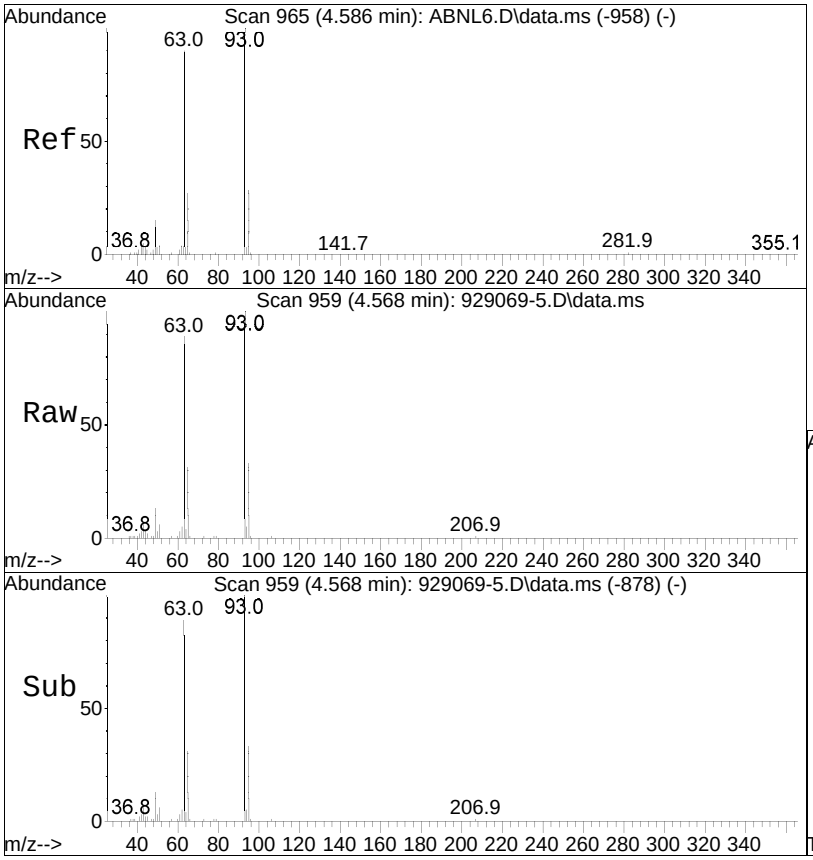


#8
Phenol
Concen: 3.65 ug/ml
RT: 4.496 min Scan# 936
Delta R.T. 0.003 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion: 94 Resp: 31998

Ion	Ratio	Lower	Upper
94	100		
65	48.3	26.0	39.0#
66	78.1	33.8	50.8#

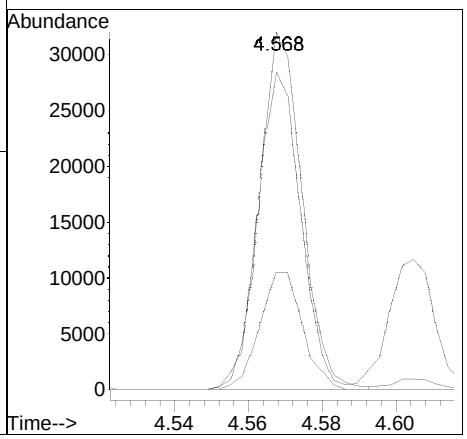


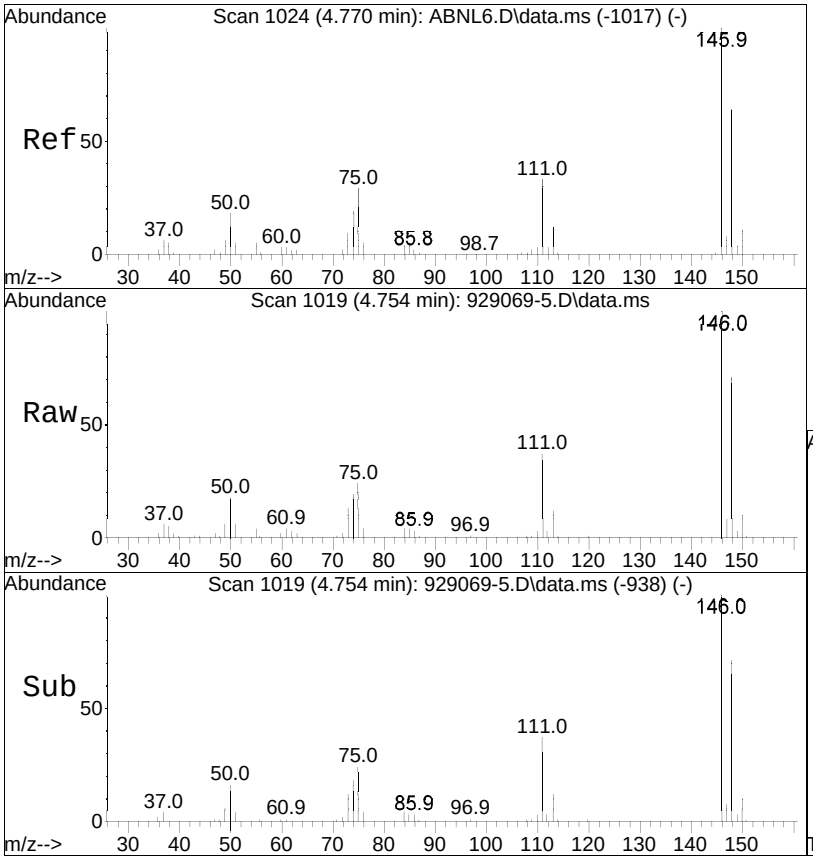


#9
Bis(2-chloroethyl)ether
Concen: 4.28 ug/ml
RT: 4.568 min Scan# 959
Delta R.T. 0.000 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion: 93 Resp: 25530

Ion	Ratio	Lower	Upper
93	100		
63	90.1	74.6	111.8
95	33.4	25.9	38.9

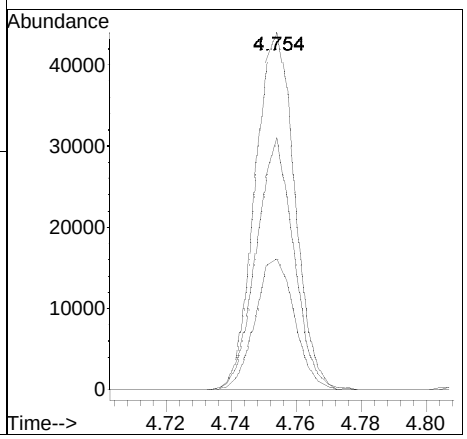


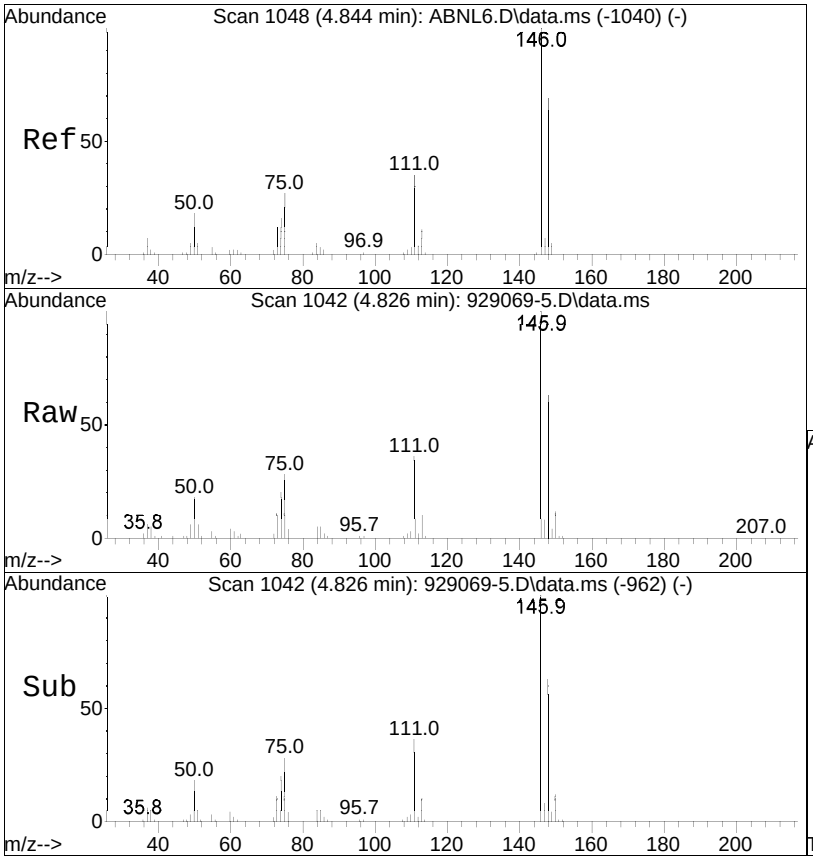


#10
1,3-Dichlorobenzene
Concen: 4.12 ug/ml
RT: 4.754 min Scan# 1019
Delta R.T. 0.003 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:146 Resp: 36922

Ion	Ratio	Lower	Upper
146	100		
111	36.6	34.3	51.5
148	67.0	50.8	76.2

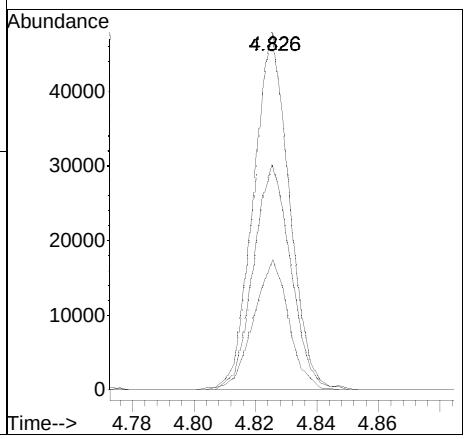


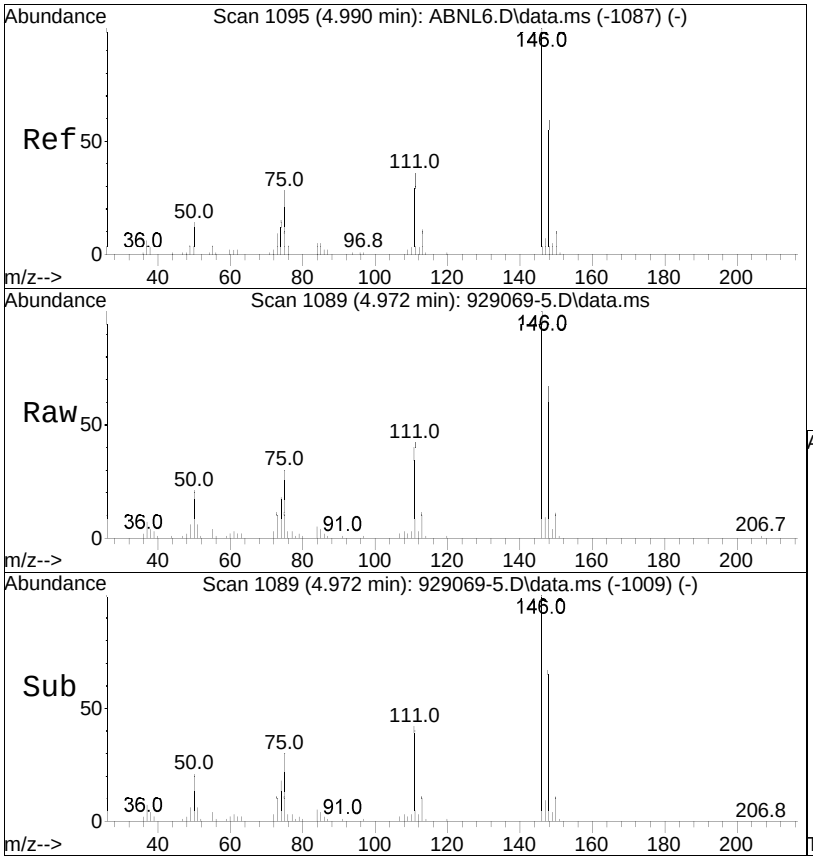


#11
1,4-Dichlorobenzene
Concen: 4.33 ug/ml
RT: 4.826 min Scan# 1042
Delta R.T. 0.000 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:146 Resp: 38501

Ion	Ratio	Lower	Upper
146	100		
148	65.5	50.7	76.1
111	36.1	33.4	50.0

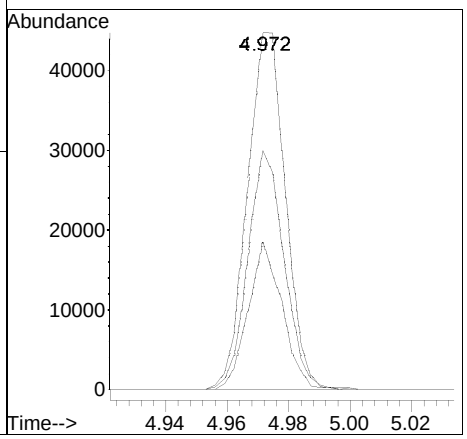


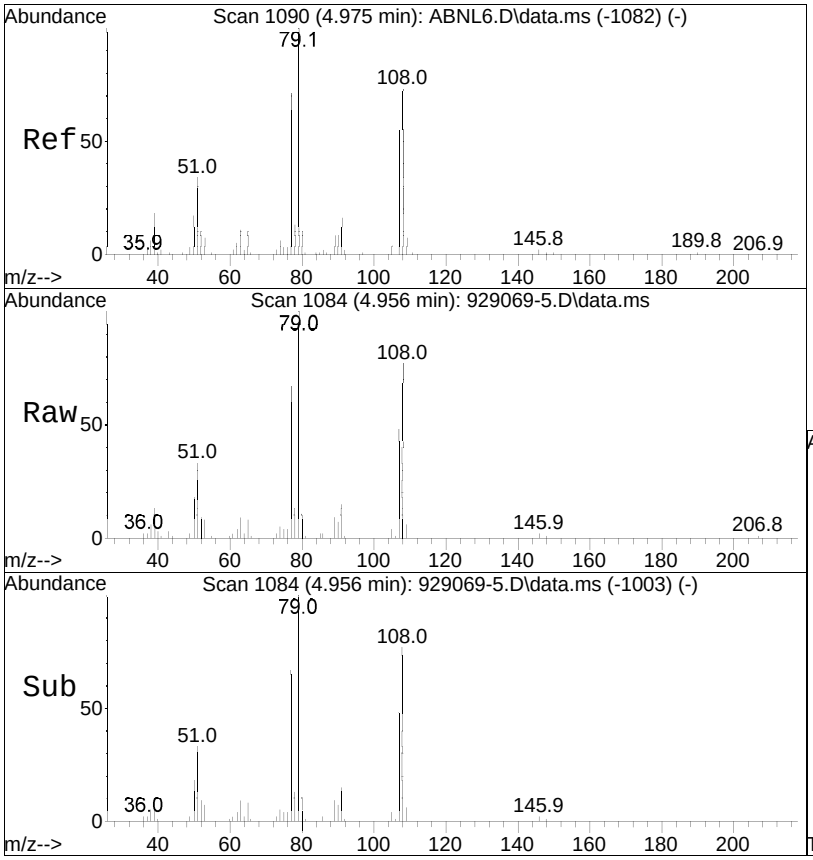


#12
1,2-Dichlorobenzene
Concen: 4.45 ug/ml
RT: 4.972 min Scan# 1089
Delta R.T. 0.000 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:146 Resp: 38206

Ion	Ratio	Lower	Upper
146	100		
111	37.1	34.6	52.0
148	64.0	50.2	75.4

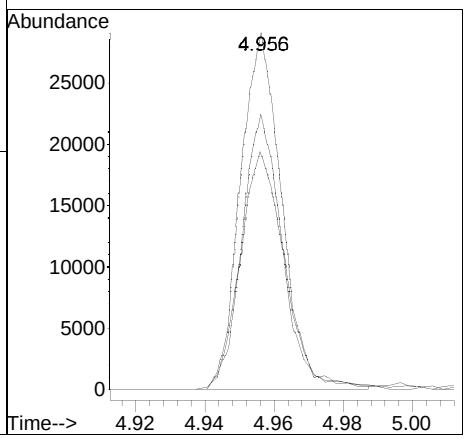


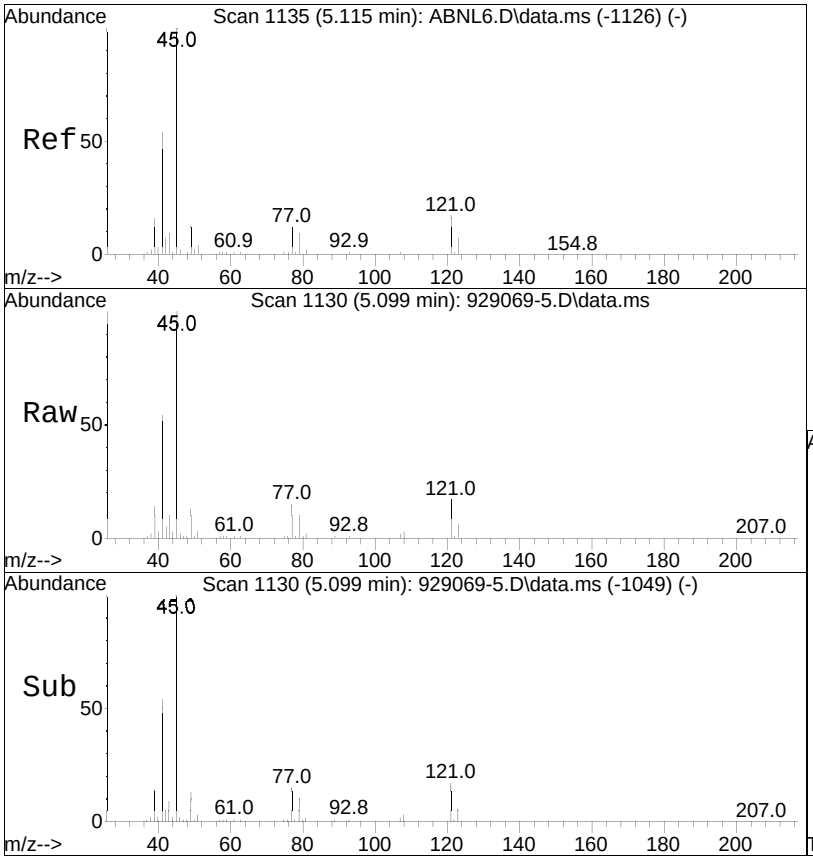


#13
Benzyl alcohol
Concen: 4.16 ug/ml
RT: 4.956 min Scan# 1084
Delta R.T. 0.003 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion: 79 Resp: 23948

Ion	Ratio	Lower	Upper
79	100		
77	70.0	54.9	82.3
108	77.9	63.1	94.7

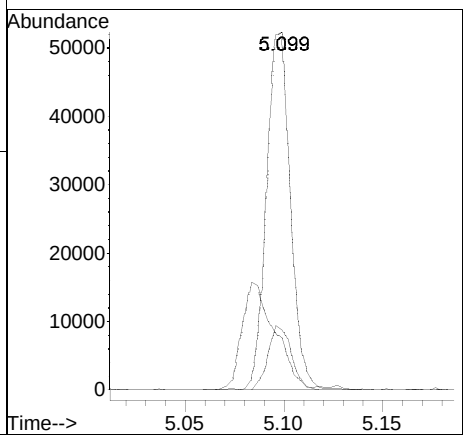


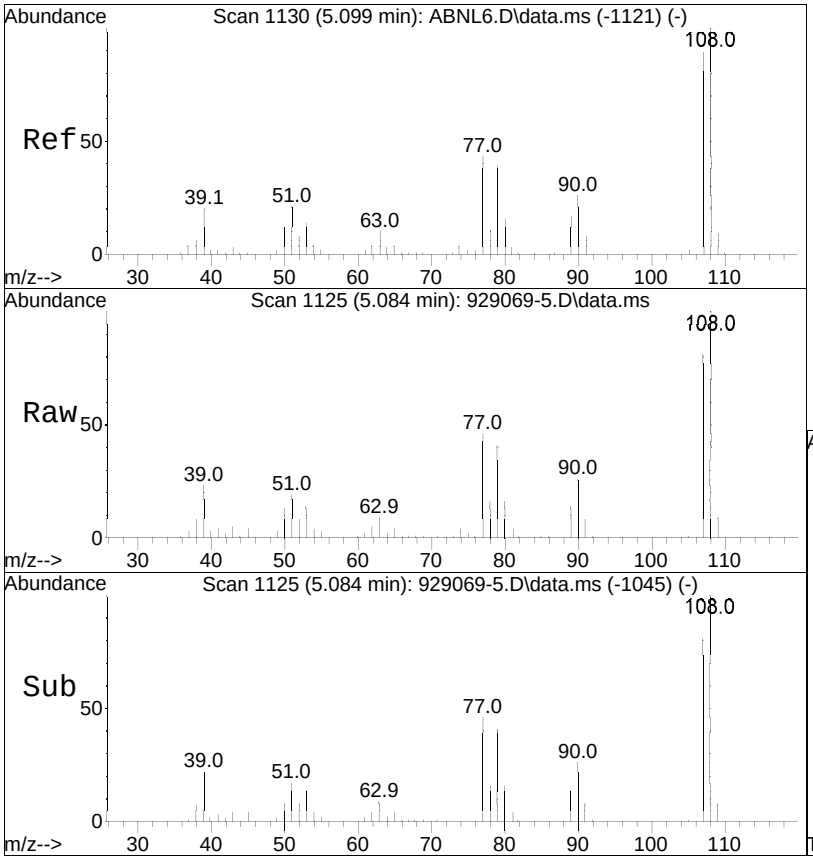


#14
Bis(2-chloroisopropyl)ether
Concen: 4.39 ug/ml
RT: 5.099 min Scan# 1130
Delta R.T. 0.003 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion: 45 Resp: 43653

Ion	Ratio	Lower	Upper
45	100		
121	17.5	9.8	14.6#
77	41.6	6.1	9.1#

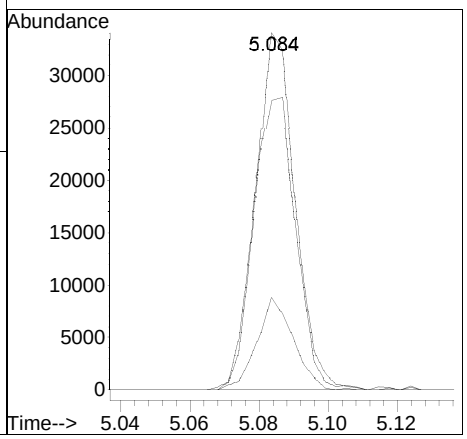


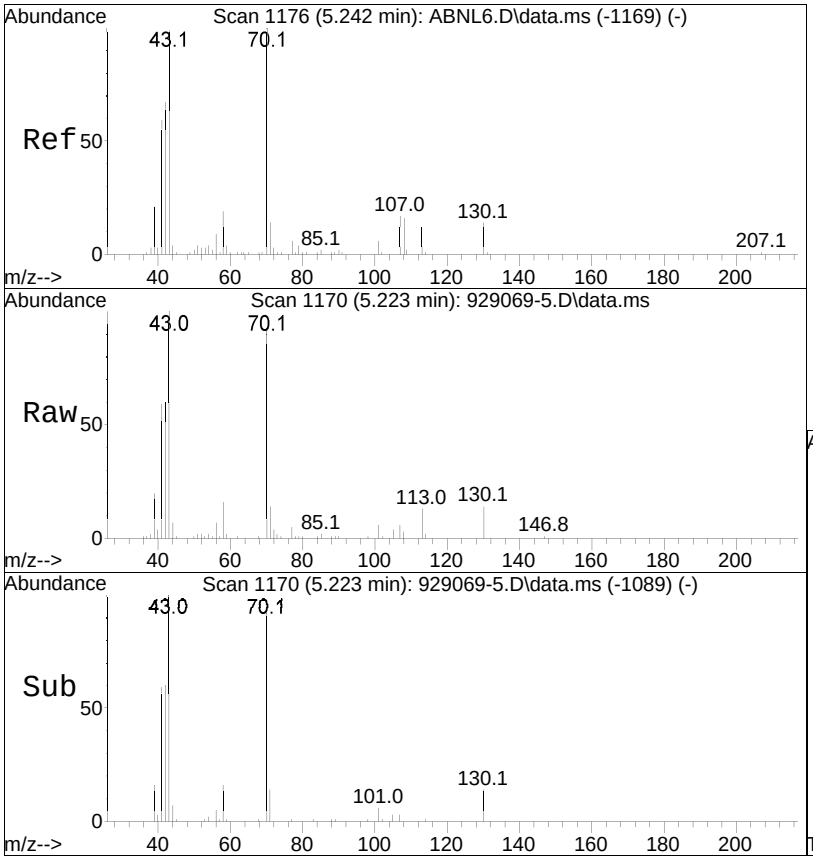


#15
2-Methylphenol
Concen: 4.61 ug/ml
RT: 5.084 min Scan# 1125
Delta R.T. 0.000 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:108 Resp: 27229

Ion	Ratio	Lower	Upper
108	100		
107	86.6	70.7	106.1
90	23.7	18.7	28.1

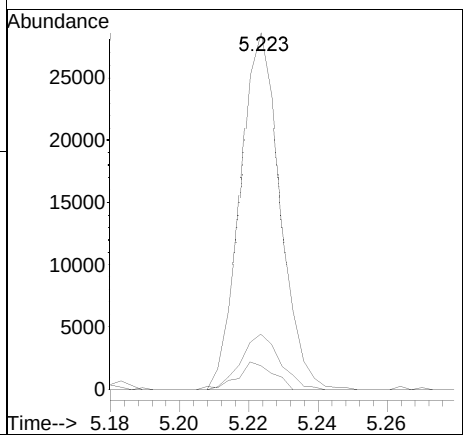


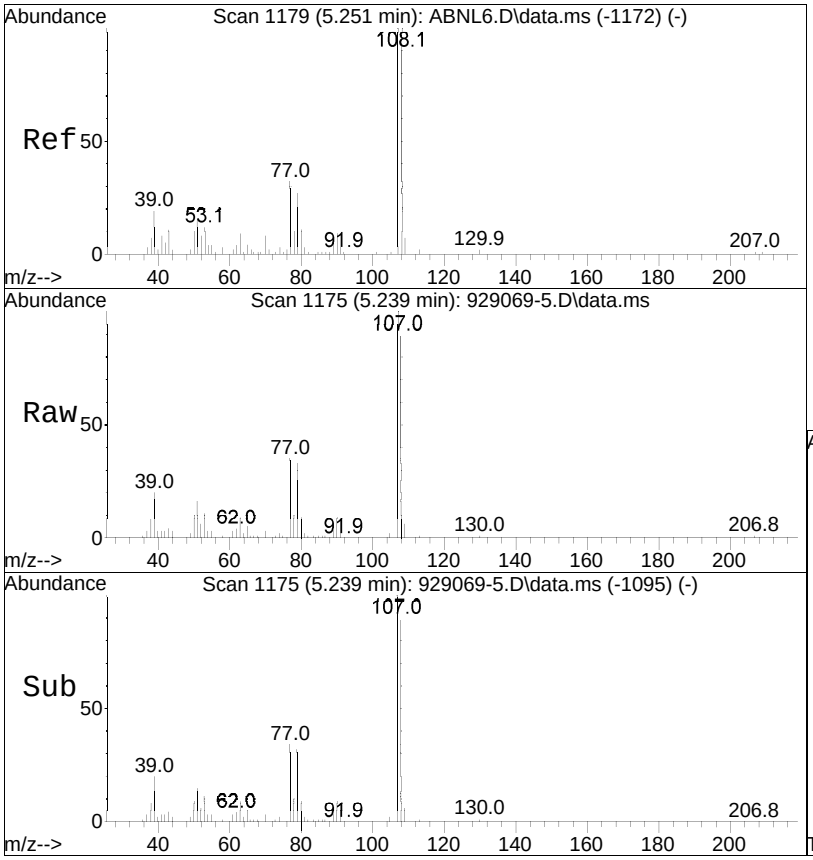


#17
n-Nitrosodi-n-propylamine
Concen: 4.31 ug/ml
RT: 5.223 min Scan# 1170
Delta R.T. 0.003 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion: 70 Resp: 22861

Ion	Ratio	Lower	Upper
70	100		
130	15.1	18.2	27.4#
101	6.9	7.8	11.8#

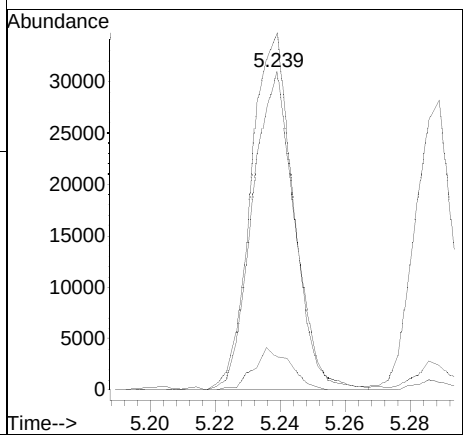


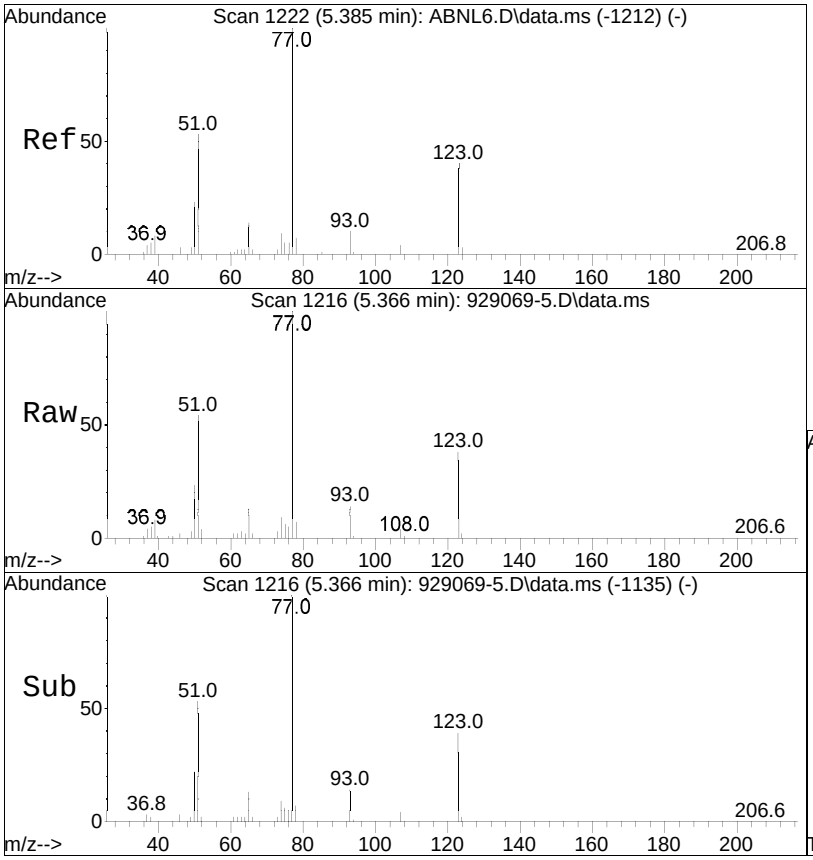


#18
3-Methylphenol/4-Methylphenol
Concen: 4.34 ug/ml
RT: 5.239 min Scan# 1175
Delta R.T. 0.000 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:108 Resp: 27945

Ion	Ratio	Lower	Upper
108	100		
107	110.7	88.6	132.8
90	11.5	8.8	13.2

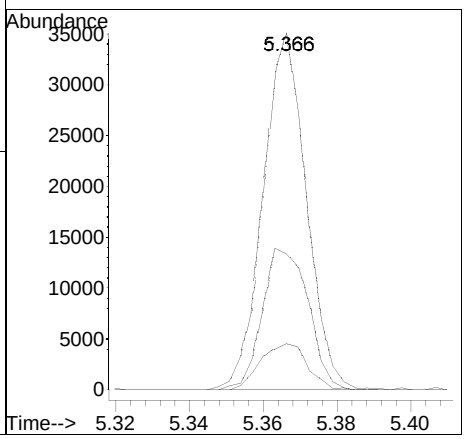


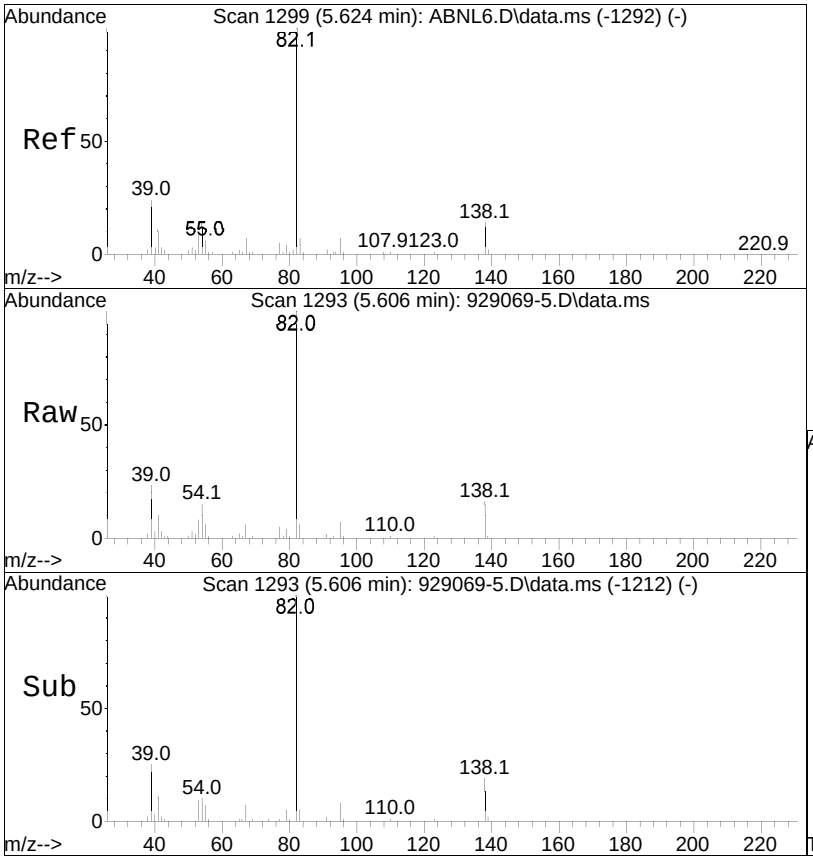


#20
Nitrobenzene
Concen: 4.15 ug/ml
RT: 5.366 min Scan# 1216
Delta R.T. 0.003 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion: 77 Resp: 28321

Ion	Ratio	Lower	Upper
77	100		
123	42.2	36.3	54.5
65	14.3	11.6	17.4

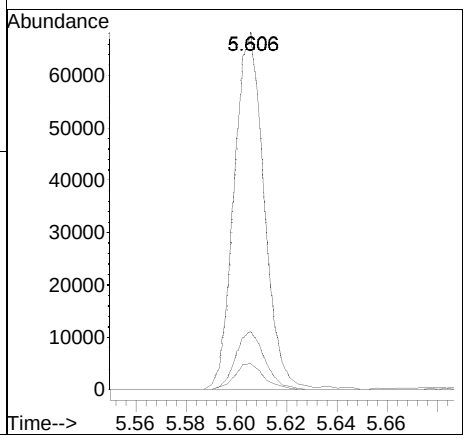


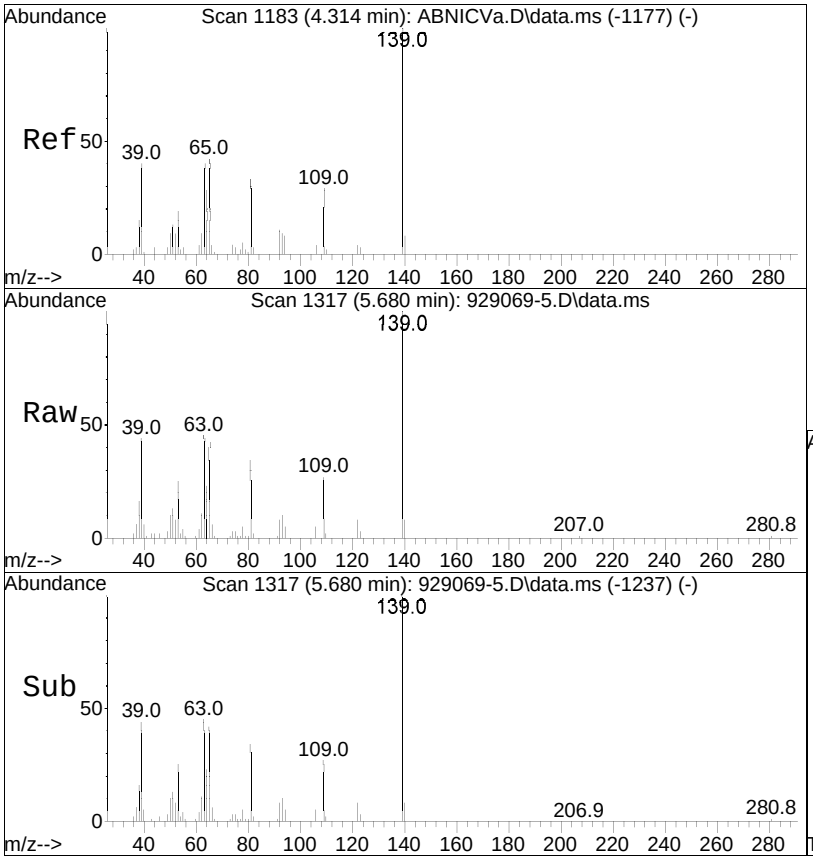


#21
Isophorone
Concen: 4.24 ug/ml
RT: 5.606 min Scan# 1293
Delta R.T. 0.003 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion: 82 Resp: 56117

Ion	Ratio	Lower	Upper
82	100		
138	15.8	14.7	22.1
95	7.1	5.2	7.8

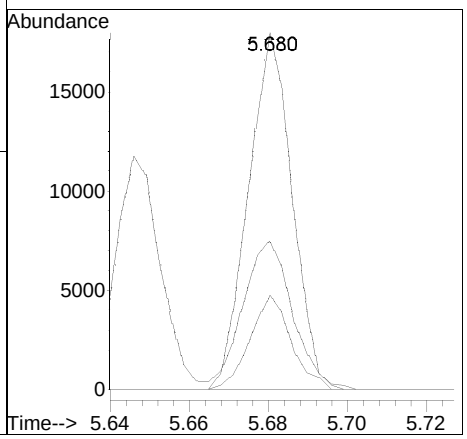


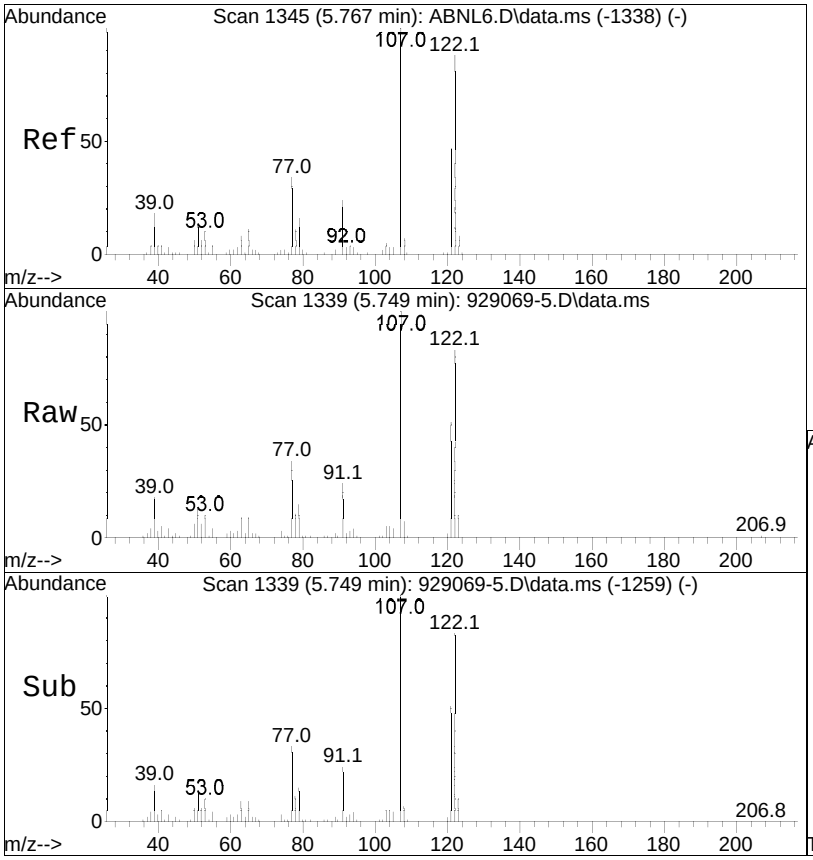


#22
2-Nitrophenol
Concen: 4.42 ug/ml
RT: 5.680 min Scan# 1317
Delta R.T. 0.000 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:139 Resp: 13789

Ion	Ratio	Lower	Upper
139	100		
109	24.8	19.4	29.0
65	47.0	46.1	69.1

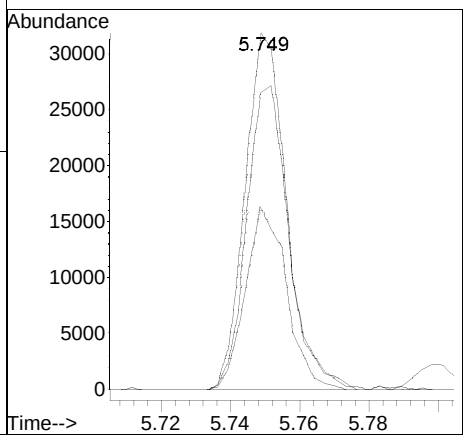


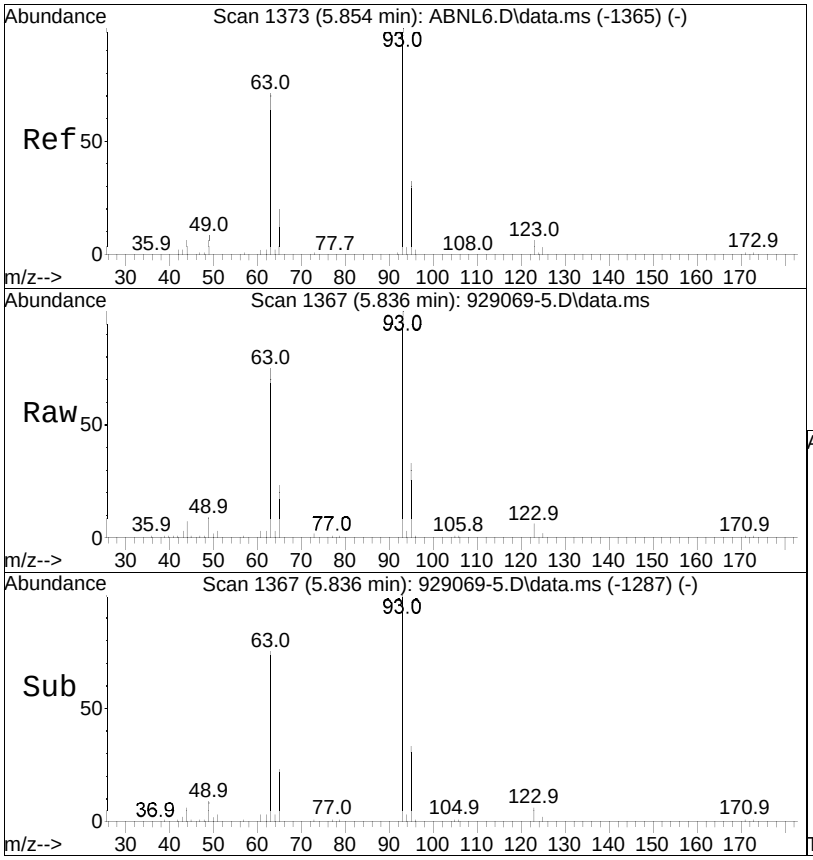


#23
2,4-Dimethylphenol
Concen: 4.34 ug/ml
RT: 5.749 min Scan# 1339
Delta R.T. 0.000 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:107 Resp: 26550

Ion	Ratio	Lower	Upper
107	100		
121	50.8	40.0	60.0
122	85.9	70.2	105.4

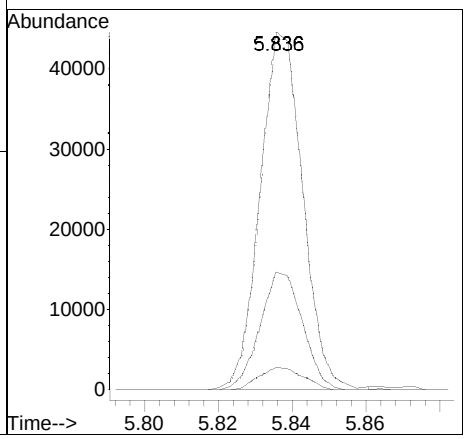


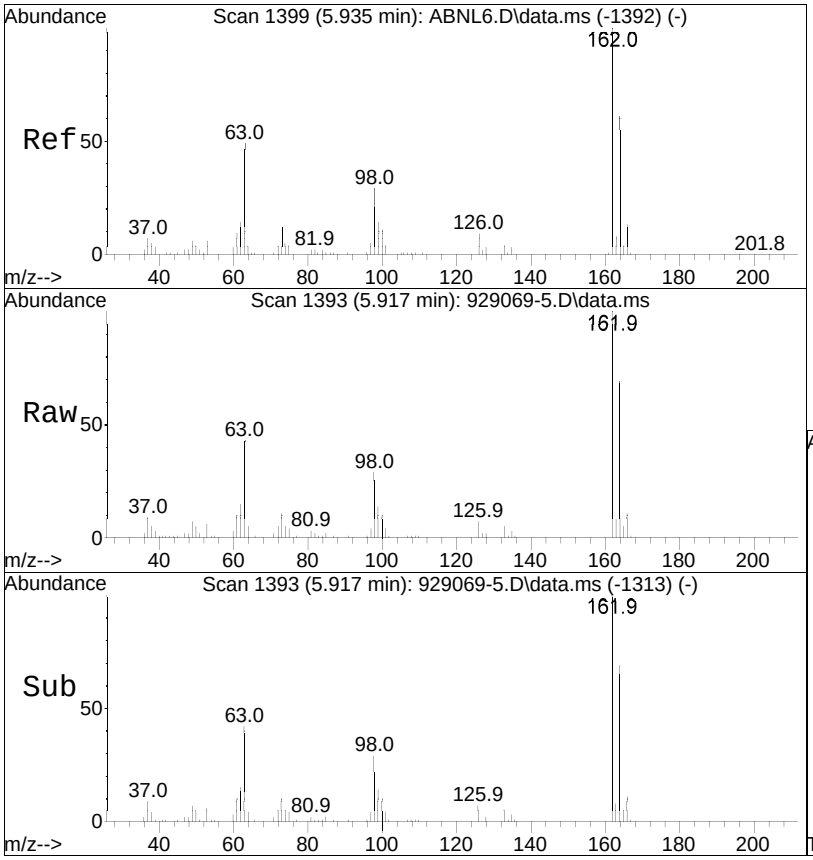


#24
Bis(2-chloroethoxy)methane
Concen: 4.48 ug/ml
RT: 5.836 min Scan# 1367
Delta R.T. 0.000 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion: 93 Resp: 35467

Ion	Ratio	Lower	Upper
93	100		
95	32.8	25.8	38.8
123	6.5	10.1	15.1#

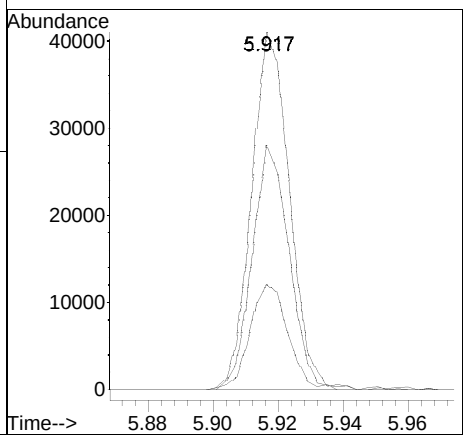


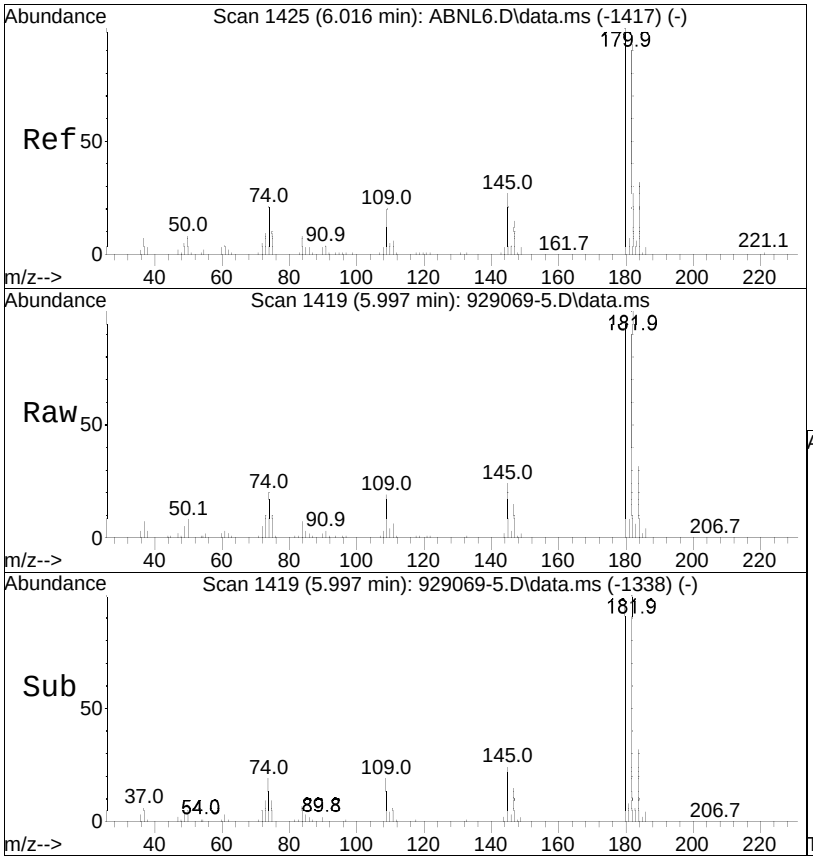


#25
2,4-Dichlorophenol
Concen: 4.65 ug/ml
RT: 5.917 min Scan# 1393
Delta R.T. 0.000 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:162 Resp: 32945

Ion	Ratio	Lower	Upper
162	100		
164	66.8	51.0	76.4
98	29.7	32.2	48.2#

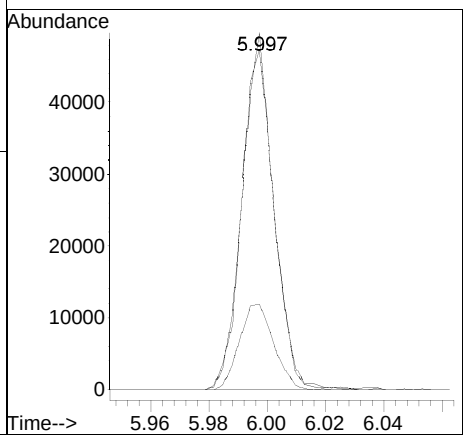


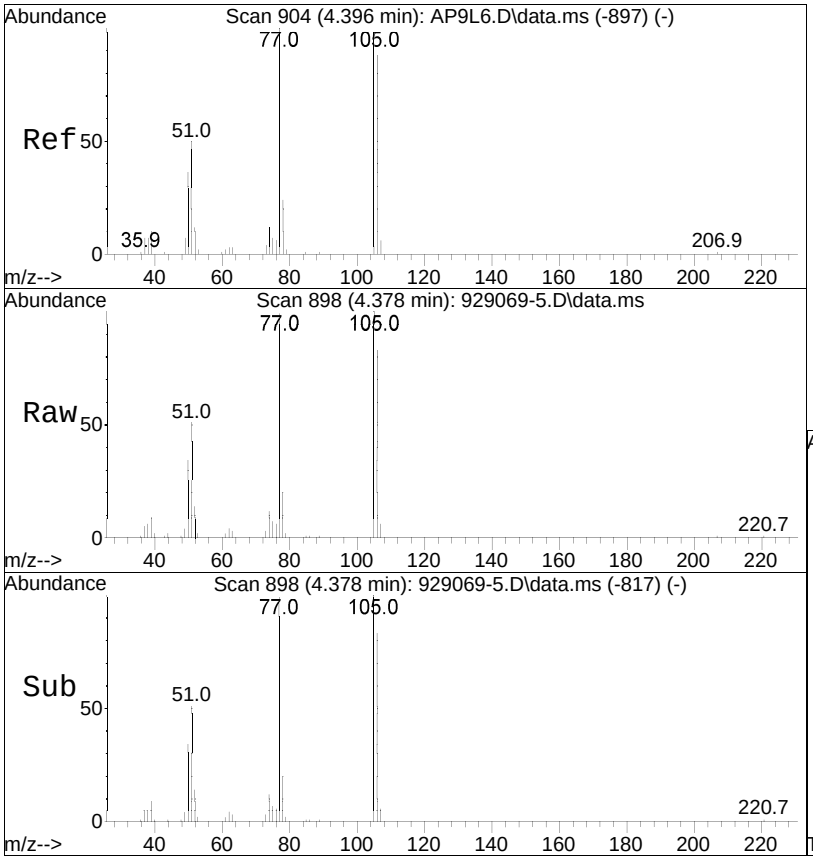


#26
1,2,4-Trichlorobenzene
Concen: 4.34 ug/ml
RT: 5.997 min Scan# 1419
Delta R.T. 0.003 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:180 Resp: 36922

Ion	Ratio	Lower	Upper
180	100		
182	100.6	76.0	114.0
145	26.6	25.7	38.5

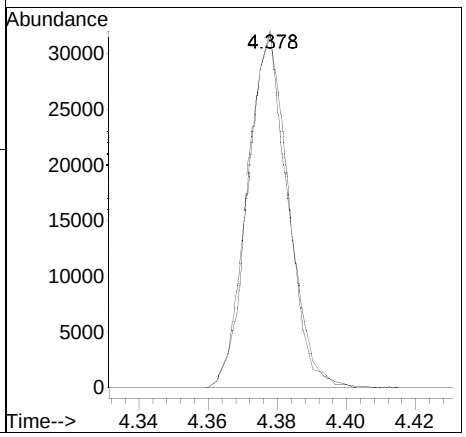


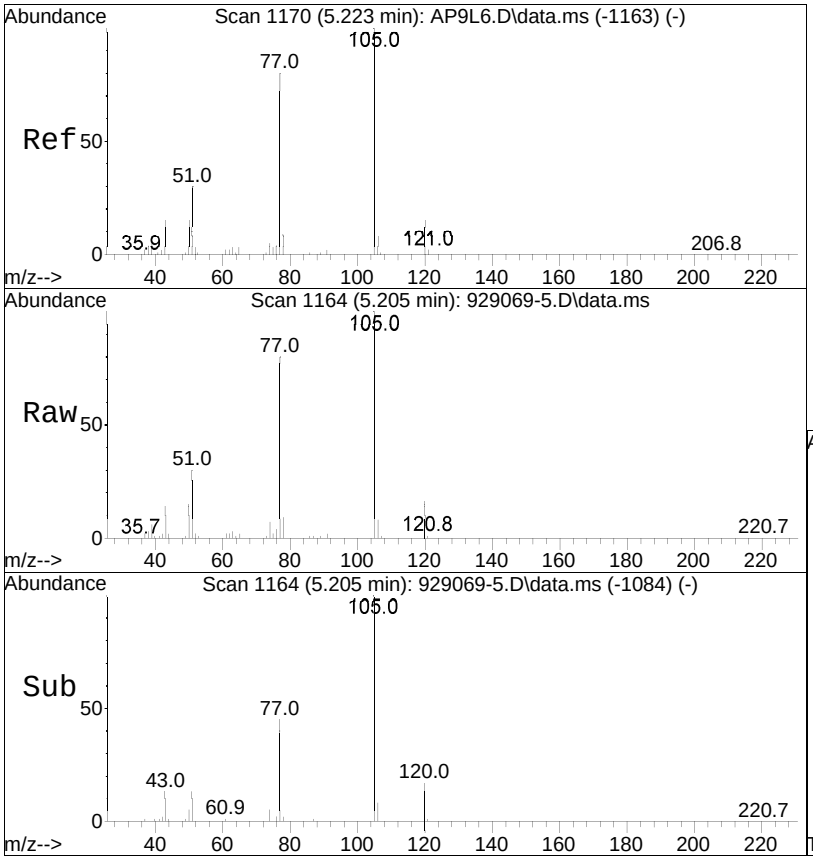


#28
Benzaldehyde
Concen: 4.26 ug/ml
RT: 4.378 min Scan# 898
Delta R.T. 0.003 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:105 Resp: 25746

Ion	Ratio	Lower	Upper
105	100		
77	101.0	82.2	123.4

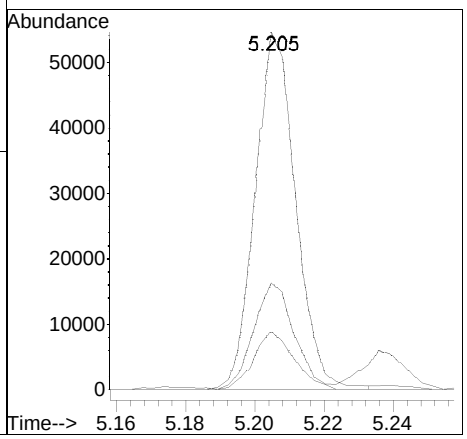


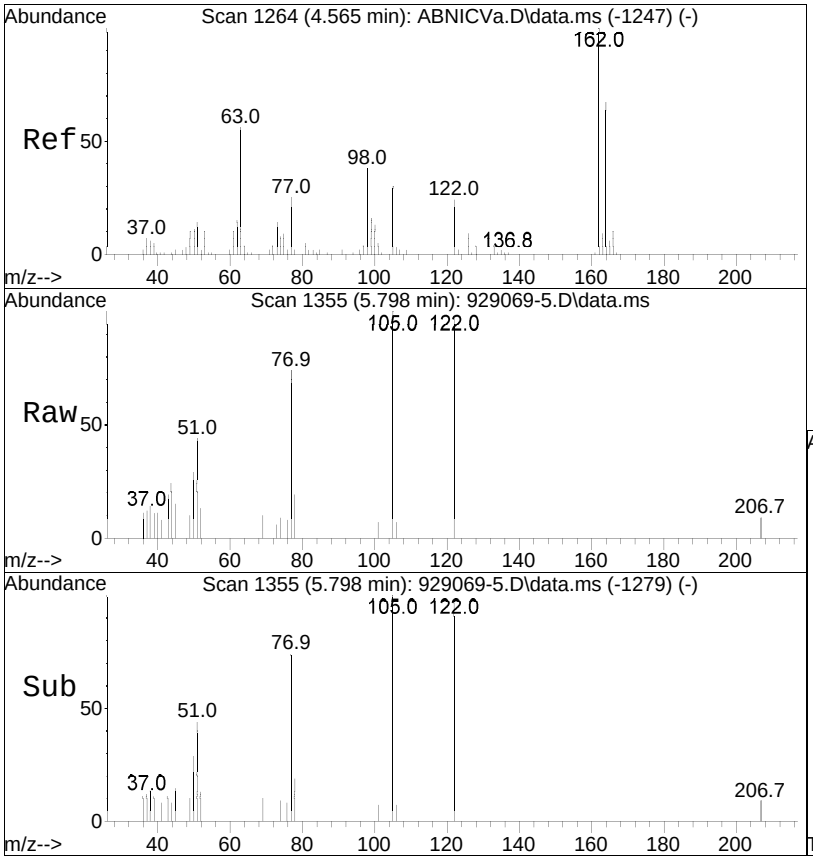


#29
Acetophenone
Concen: 4.38 ug/ml
RT: 5.205 min Scan# 1164
Delta R.T. 0.000 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:105 Resp: 43942

Ion	Ratio	Lower	Upper
105	100		
120	16.3	20.5	30.7#
51	30.2	34.9	52.3#

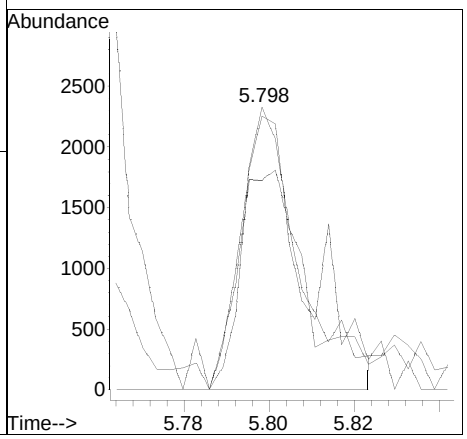


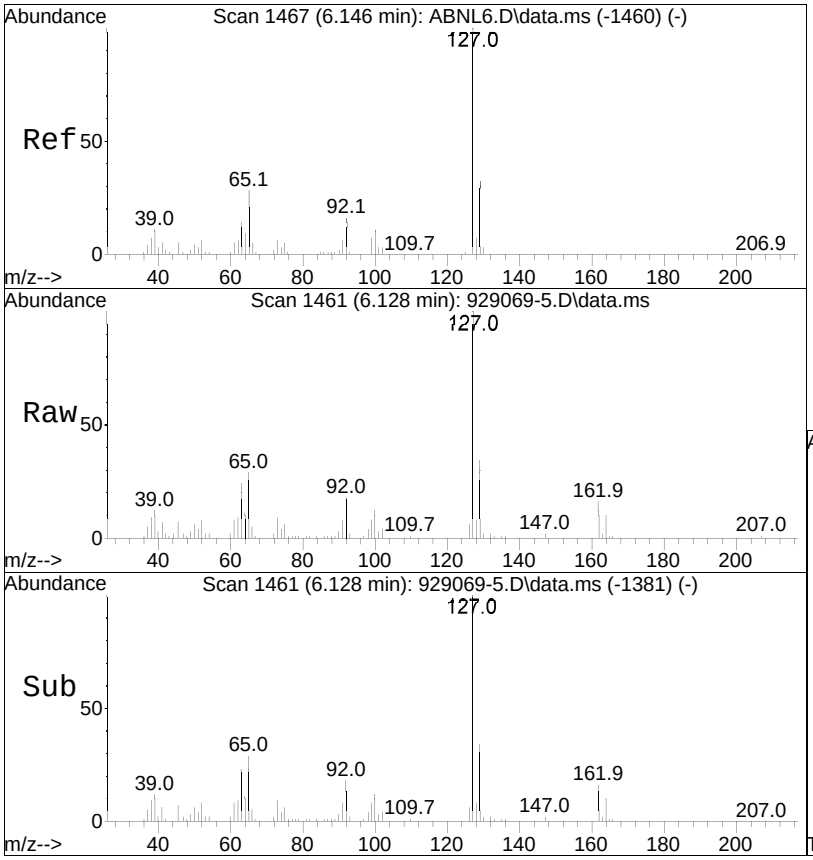


#36
Benzoic Acid
Concen: 1.46 ug/ml
RT: 5.798 min Scan# 1355
Delta R.T. -0.012 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:105 Resp: 2116

Ion	Ratio	Lower	Upper
105	100		
122	93.1	59.9	89.9#
77	97.9	60.1	90.1#

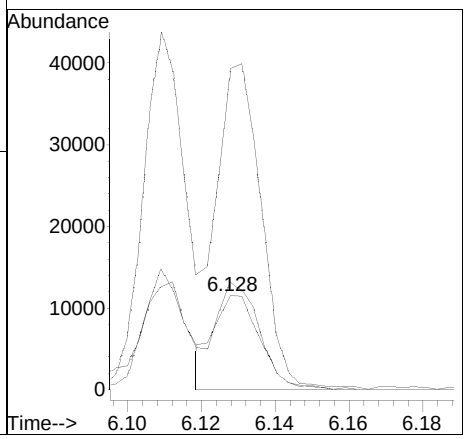


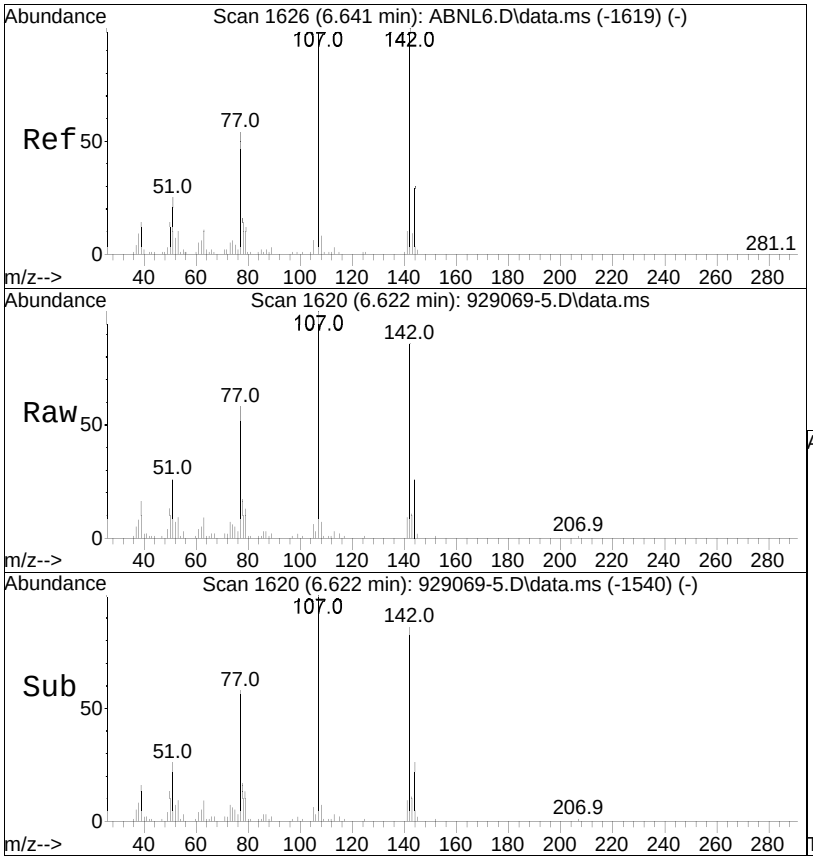


#37
4-Chloroaniline
Concen: 3.88 ug/ml
RT: 6.128 min Scan# 1461
Delta R.T. 0.000 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion: 65 Resp: 10199

Ion	Ratio	Lower	Upper
65	100		
127	333.1	237.6	356.4
129	99.0	76.3	114.5

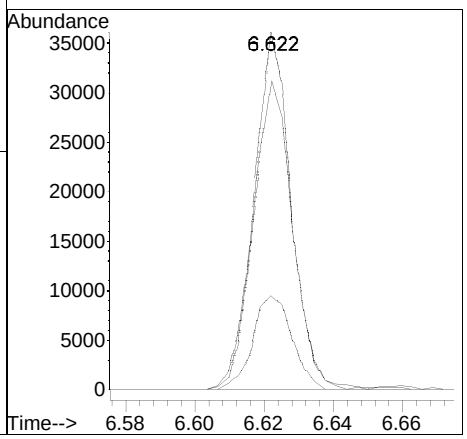


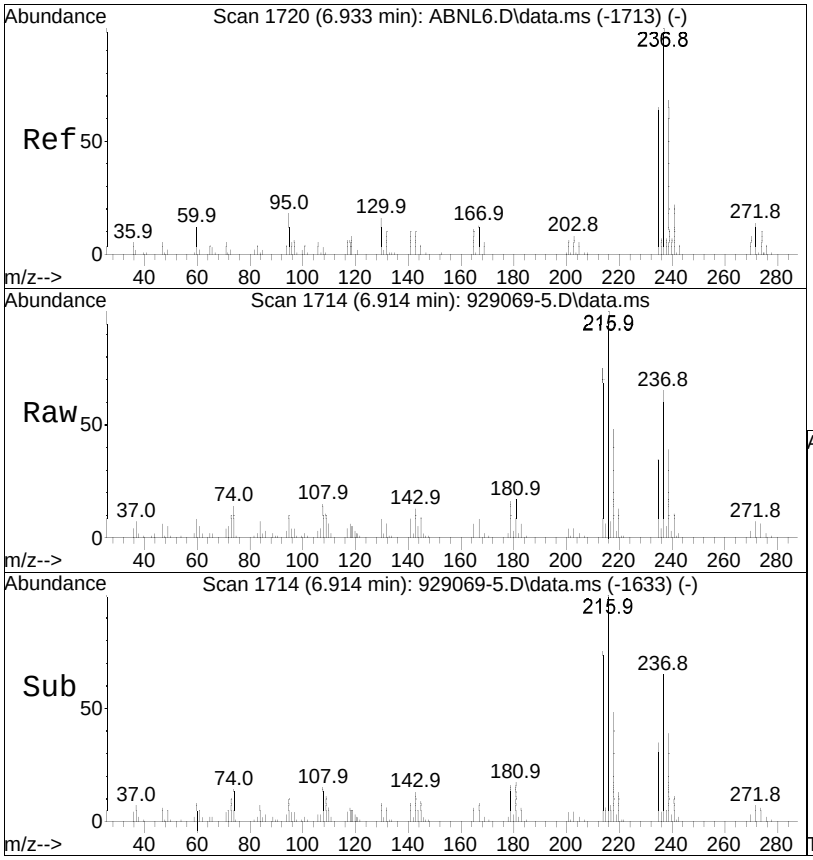


#39
p-Chloro-m-cresol
Concen: 4.62 ug/ml
RT: 6.622 min Scan# 1620
Delta R.T. 0.000 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:107 Resp: 26854

Ion	Ratio	Lower	Upper
107	100		
144	27.8	20.9	31.3
142	90.5	66.1	99.1

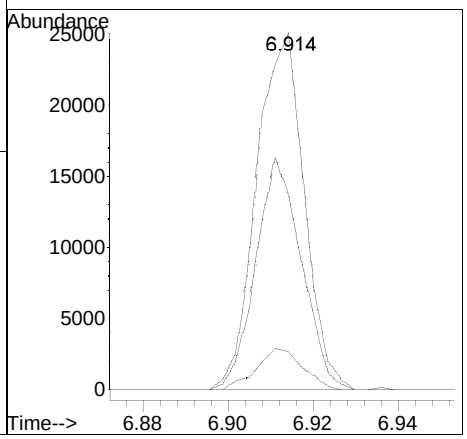


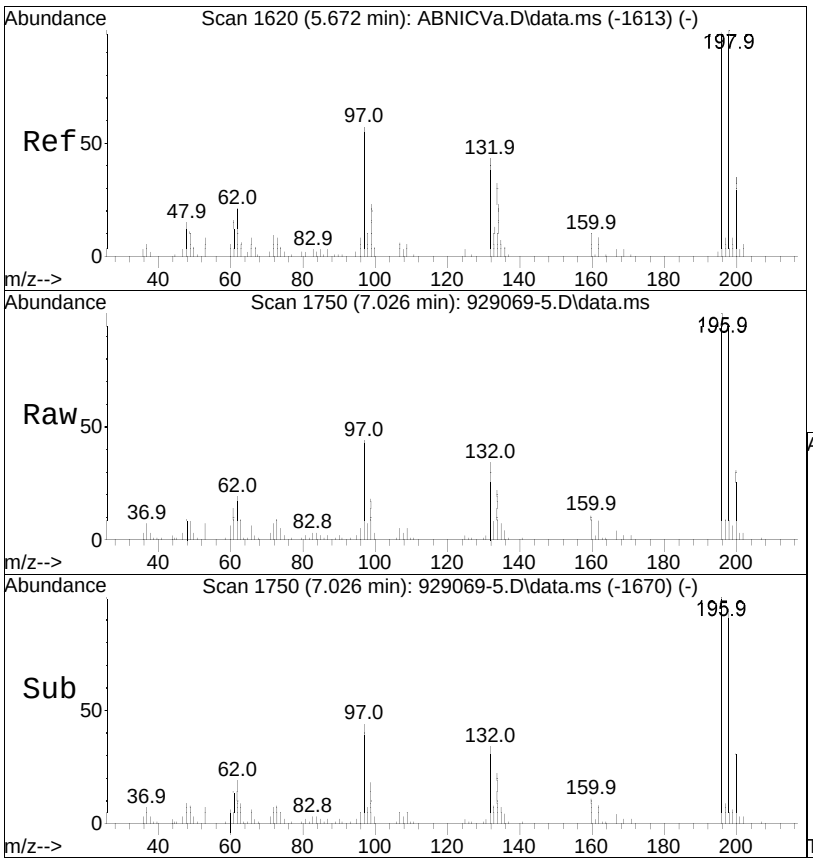


#42
Hexachlorocyclopentadiene
Concen: 3.61 ug/ml
RT: 6.914 min Scan# 1714
Delta R.T. 0.003 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:237 Resp: 19398

Ion	Ratio	Lower	Upper
237	100		
235	62.4	49.7	74.5
272	11.4	9.8	14.6

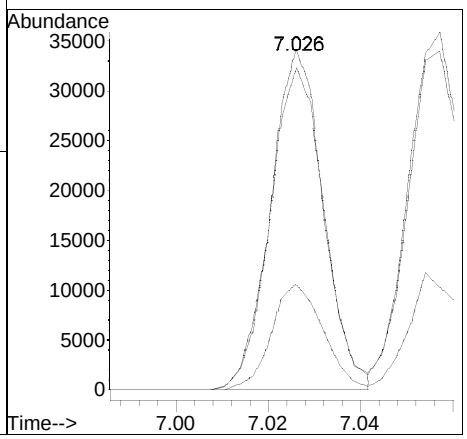


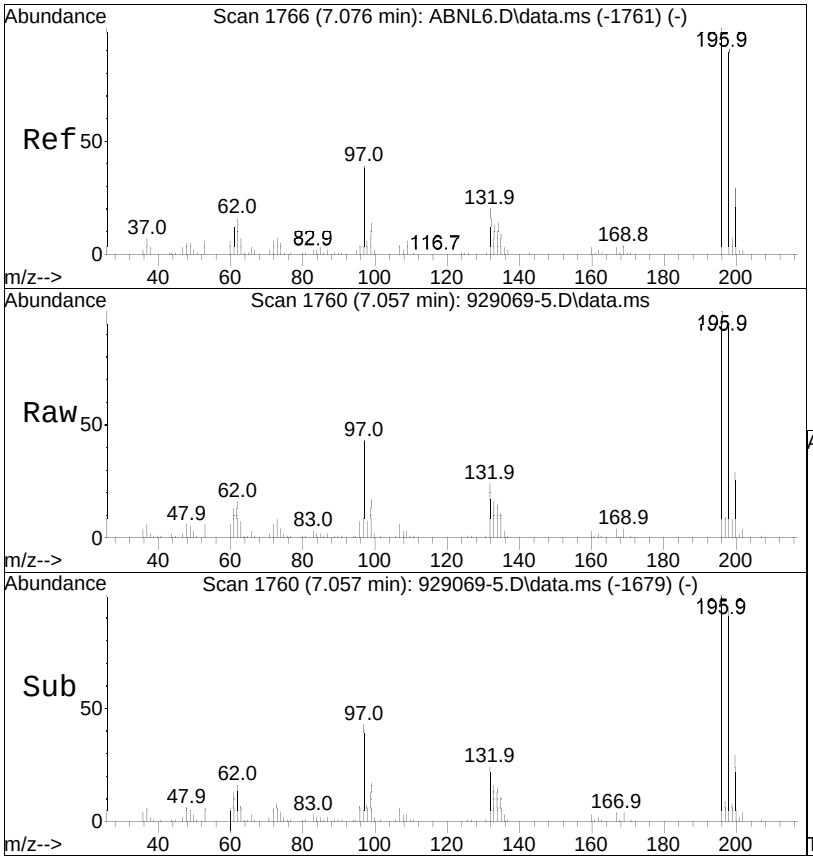


#43
2,4,6-Trichlorophenol
Concen: 4.51 ug/ml
RT: 7.026 min Scan# 1750
Delta R.T. 0.000 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:196 Resp: 26872

Ion	Ratio	Lower	Upper
196	100		
198	97.9	77.5	116.3
200	30.7	23.8	35.6

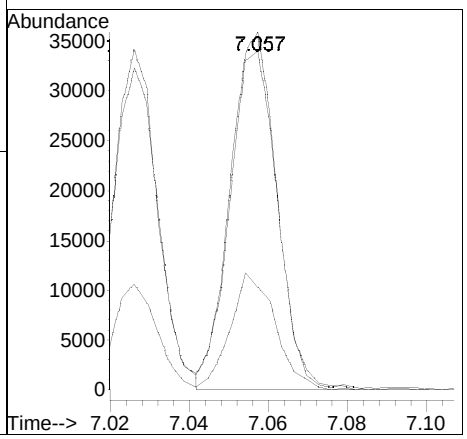


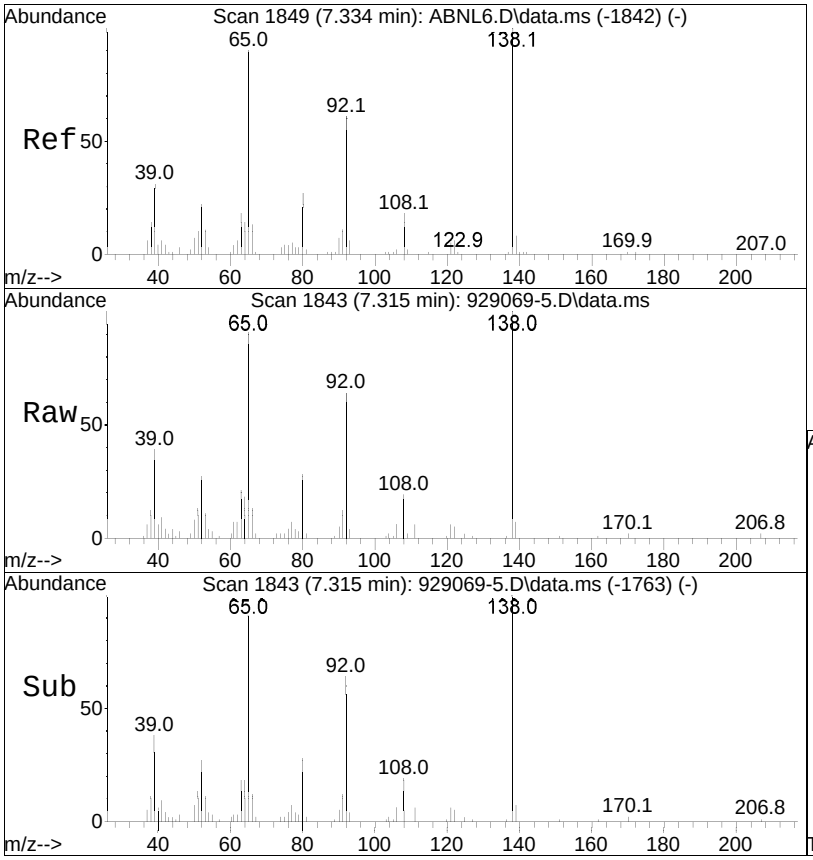


#44
2,4,5-Trichlorophenol
Concen: 4.53 ug/ml
RT: 7.057 min Scan# 1760
Delta R.T. 0.003 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:196 Resp: 29348

Ion	Ratio	Lower	Upper
196	100		
200	31.7	25.4	38.0
198	96.8	78.0	117.0

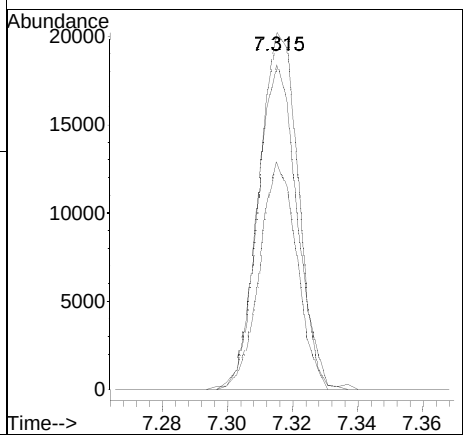


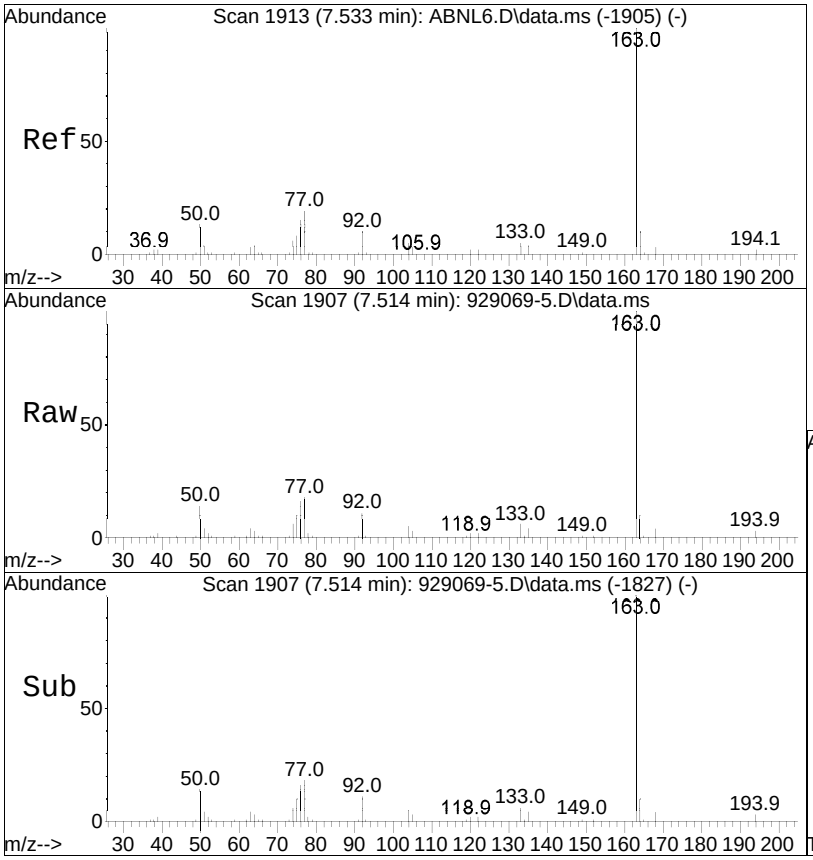


#47
2-Nitroaniline
Concen: 4.27 ug/ml
RT: 7.315 min Scan# 1843
Delta R.T. 0.000 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:138 Resp: 16990

Ion	Ratio	Lower	Upper
138	100		
92	60.1	53.5	80.3
65	89.5	86.3	129.5

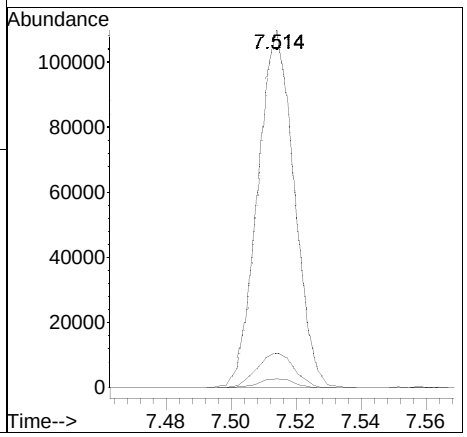


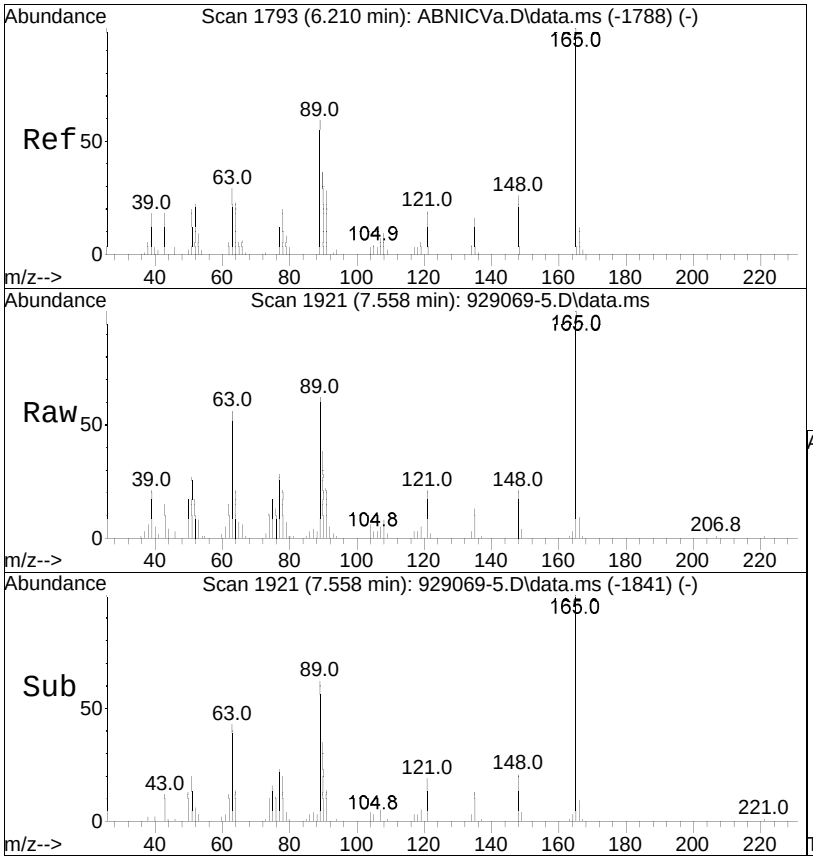


#50
Dimethyl phthalate
Concen: 4.24 ug/ml
RT: 7.514 min Scan# 1907
Delta R.T. 0.000 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:163 Resp: 84600

Ion	Ratio	Lower	Upper
163	100		
194	2.7	3.5	5.3#
164	10.2	7.9	11.9

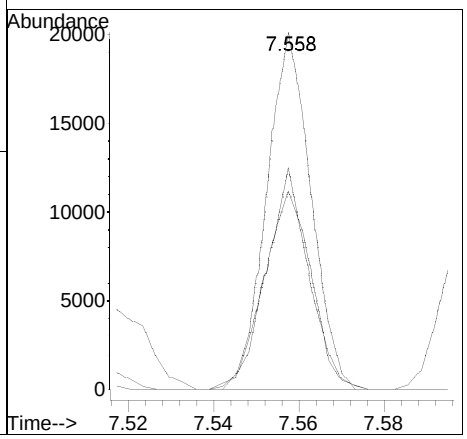


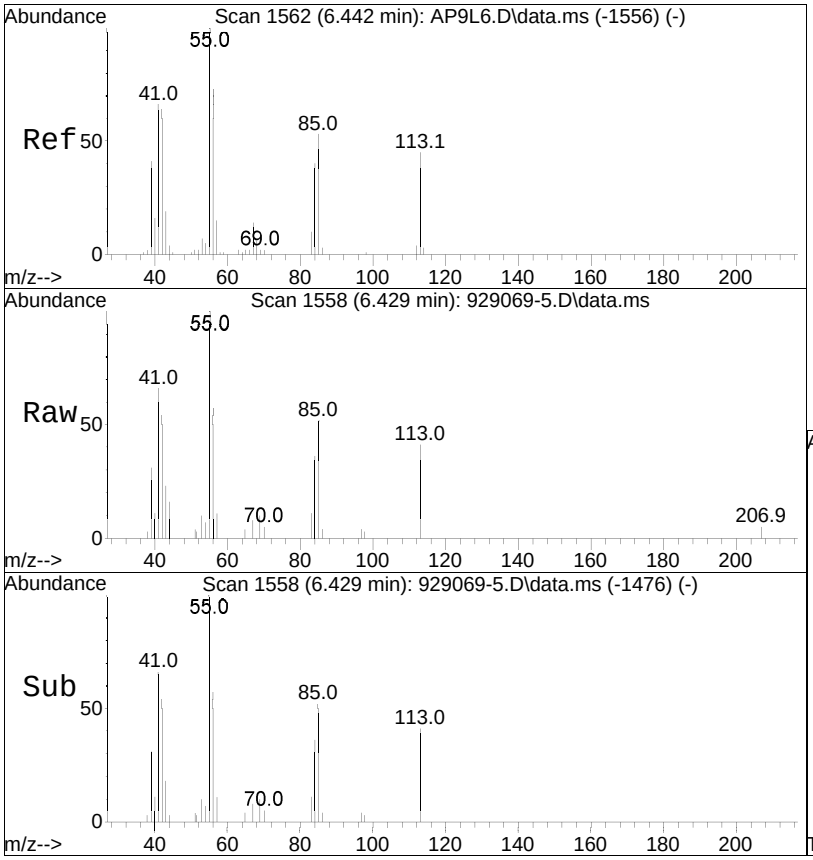


#52
2,6-Dinitrotoluene
Concen: 4.13 ug/ml
RT: 7.558 min Scan# 1921
Delta R.T. 0.000 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:165 Resp: 14492

Ion	Ratio	Lower	Upper
165	100		
89	59.6	54.2	81.2
63	59.9	64.2	96.2#

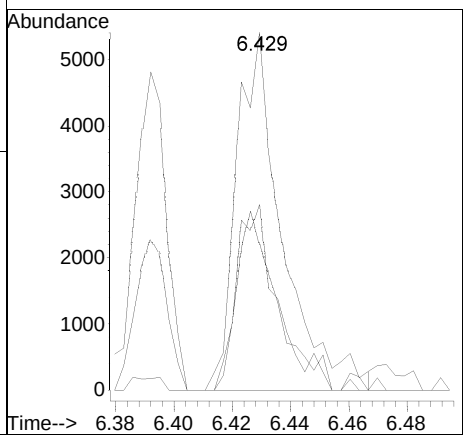


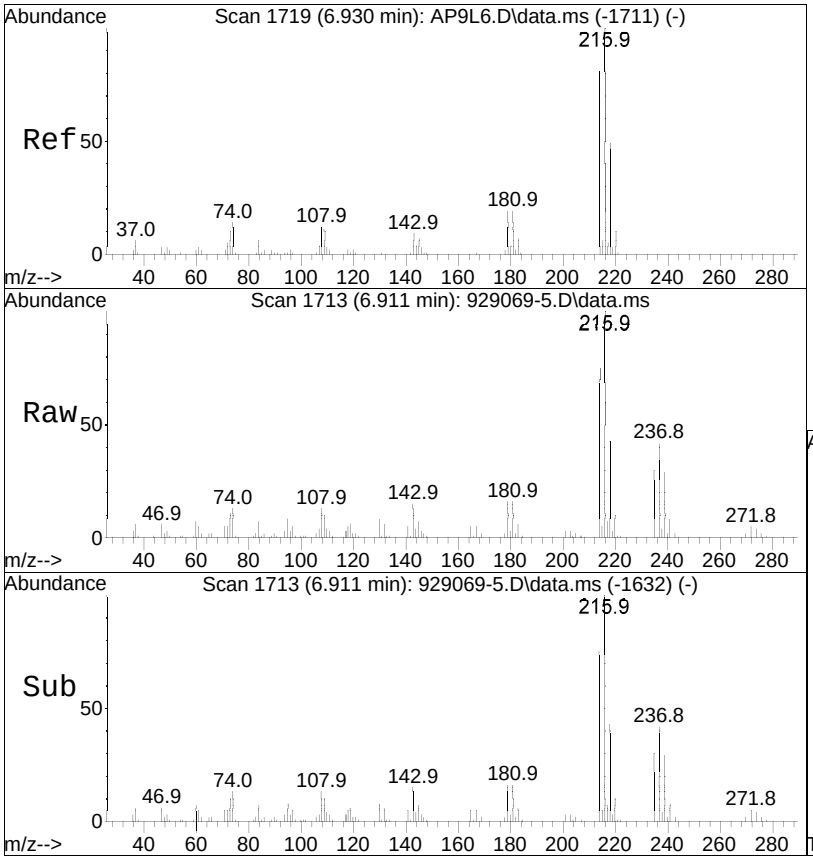


#59
Caprolactam
Concen: 2.04 ug/ml
RT: 6.429 min Scan# 1558
Delta R.T. 0.006 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion: 55 Resp: 5867

Ion	Ratio	Lower	Upper
55	100		
85	46.5	19.8	29.6#
113	44.8	29.6	44.4#

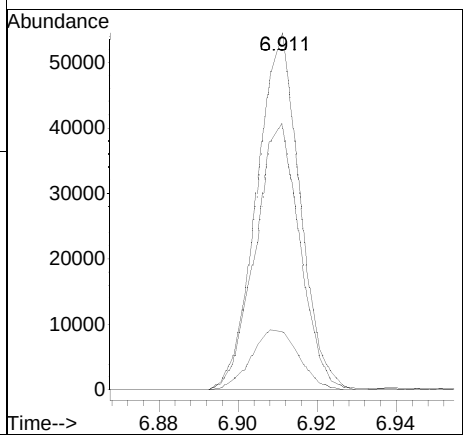


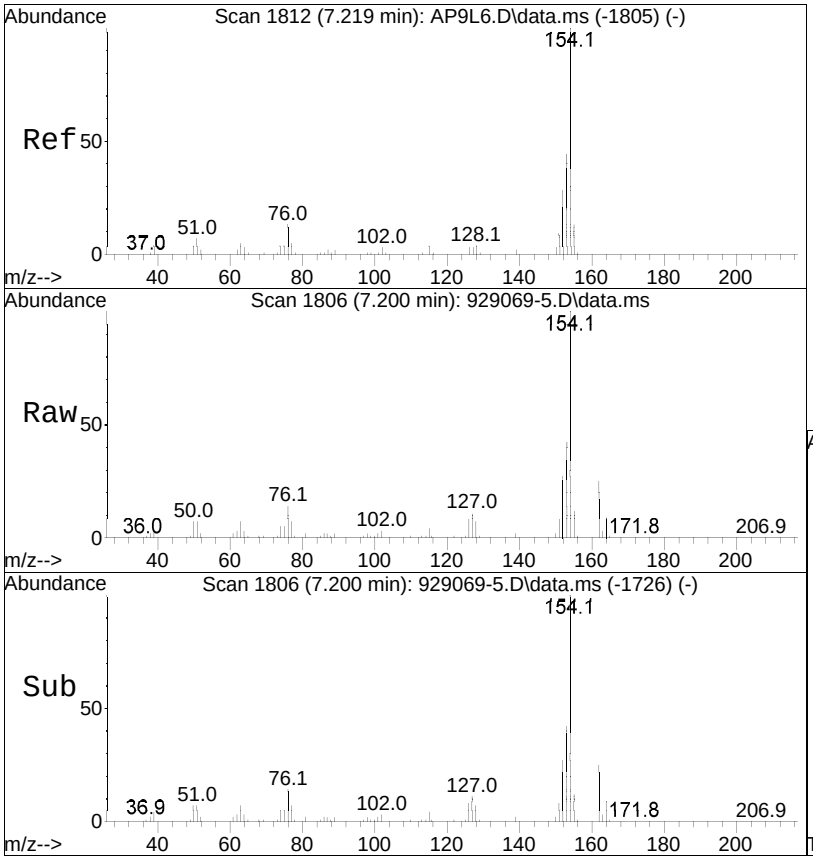


#60
1,2,4,5-Tetrachlorobenzene
Concen: 4.13 ug/ml
RT: 6.911 min Scan# 1713
Delta R.T. 0.003 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:216 Resp: 41345

Ion	Ratio	Lower	Upper
216	100		
214	76.8	63.7	95.5
179	18.6	19.0	28.6#

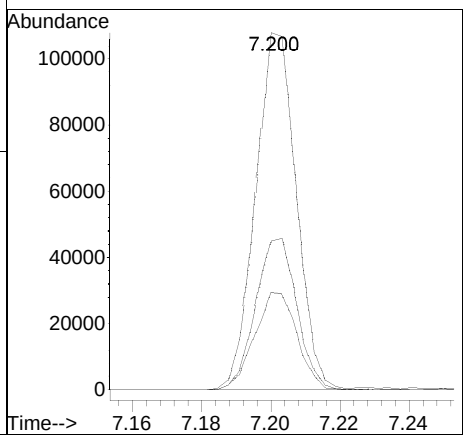


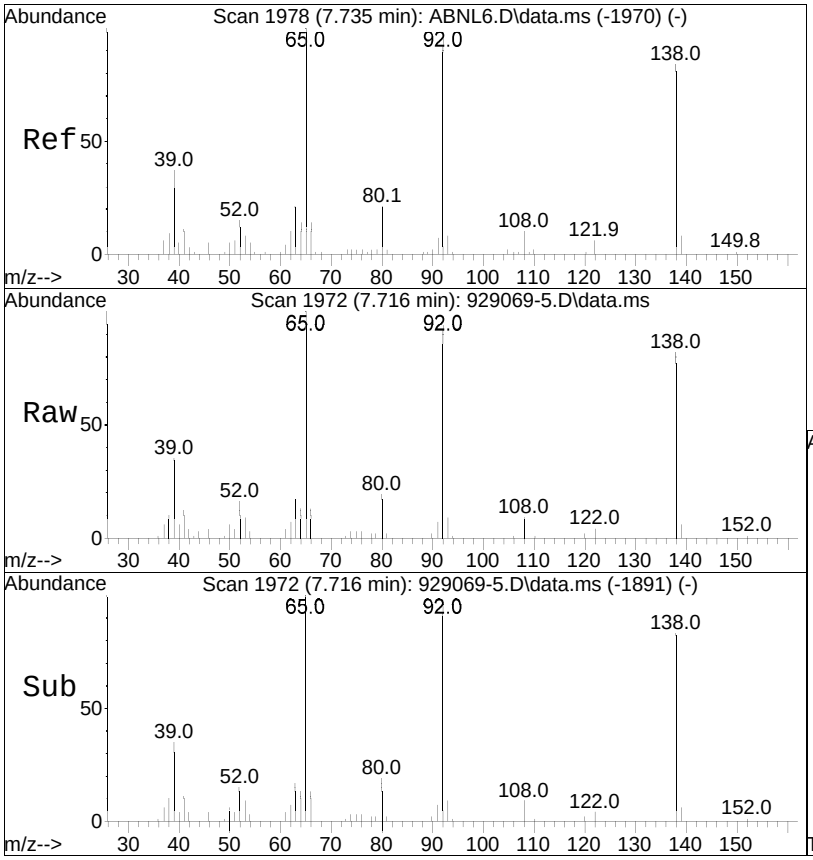


#61
Biphenyl
Concen: 4.23 ug/ml
RT: 7.200 min Scan# 1806
Delta R.T. 0.000 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:154 Resp: 87804

Ion	Ratio	Lower	Upper
154	100		
153	43.0	32.3	48.5
152	28.5	22.5	33.7

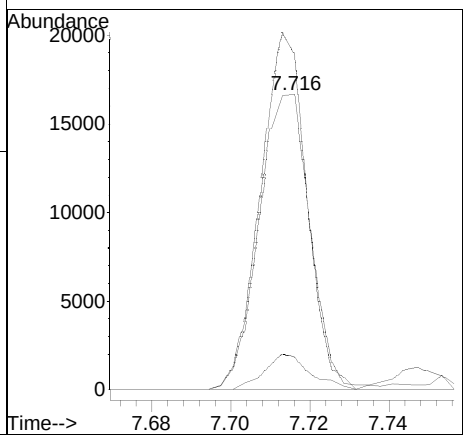


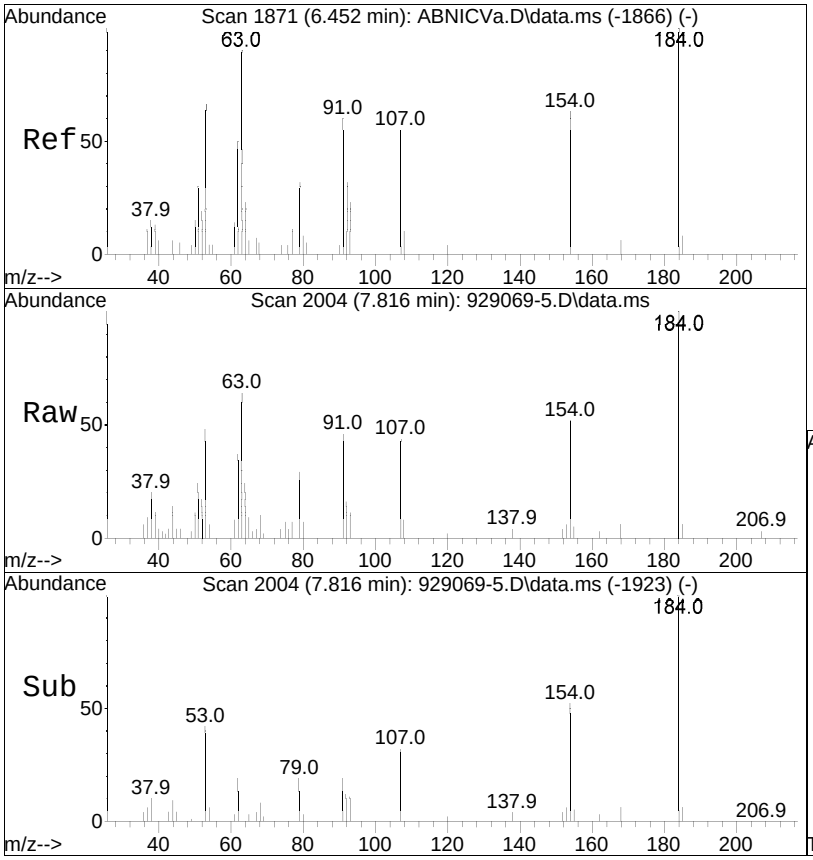


#63
3-Nitroaniline
Concen: 4.53 ug/ml
RT: 7.716 min Scan# 1972
Delta R.T. 0.003 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:138 Resp: 14610

Ion	Ratio	Lower	Upper
138	100		
92	113.2	93.4	140.2
108	10.9	9.5	14.3

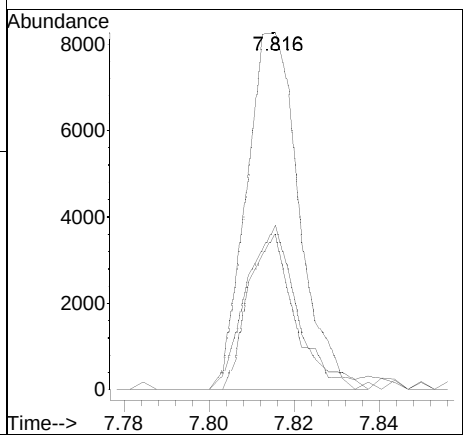


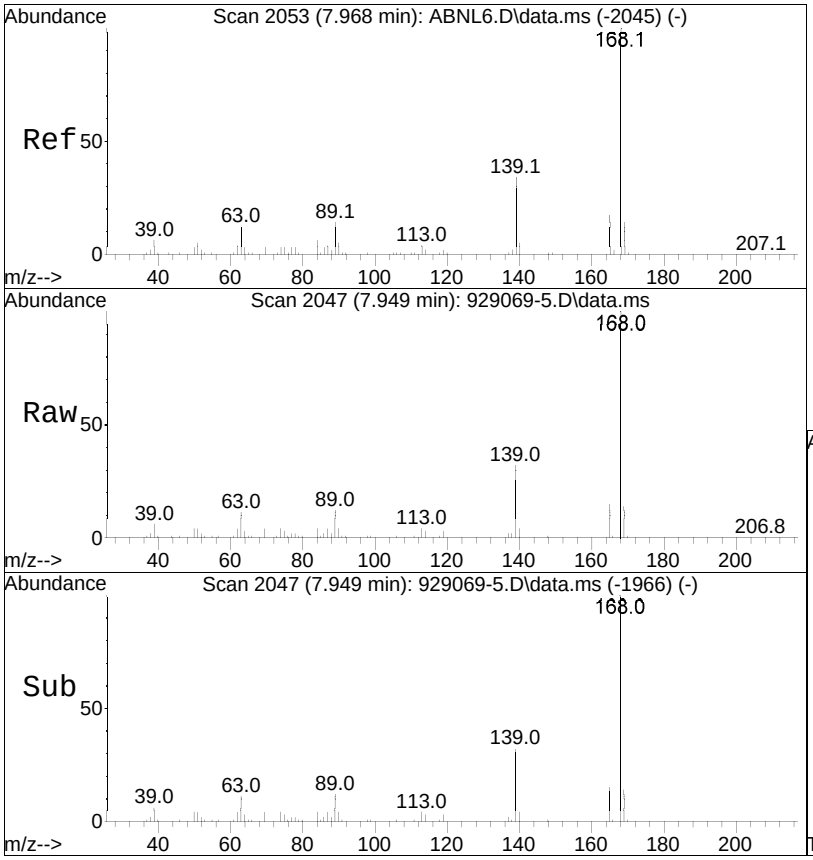


#65
2,4-Dinitrophenol
Concen: 4.06 ug/ml
RT: 7.816 min Scan# 2004
Delta R.T. 0.003 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:184 Resp: 7061

Ion	Ratio	Lower	Upper
184	100		
107	39.0	37.7	56.5
91	46.7	46.3	69.5

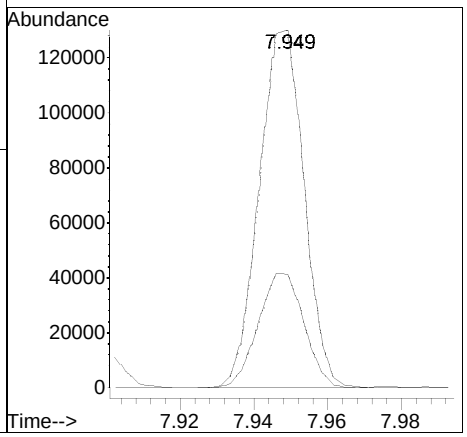


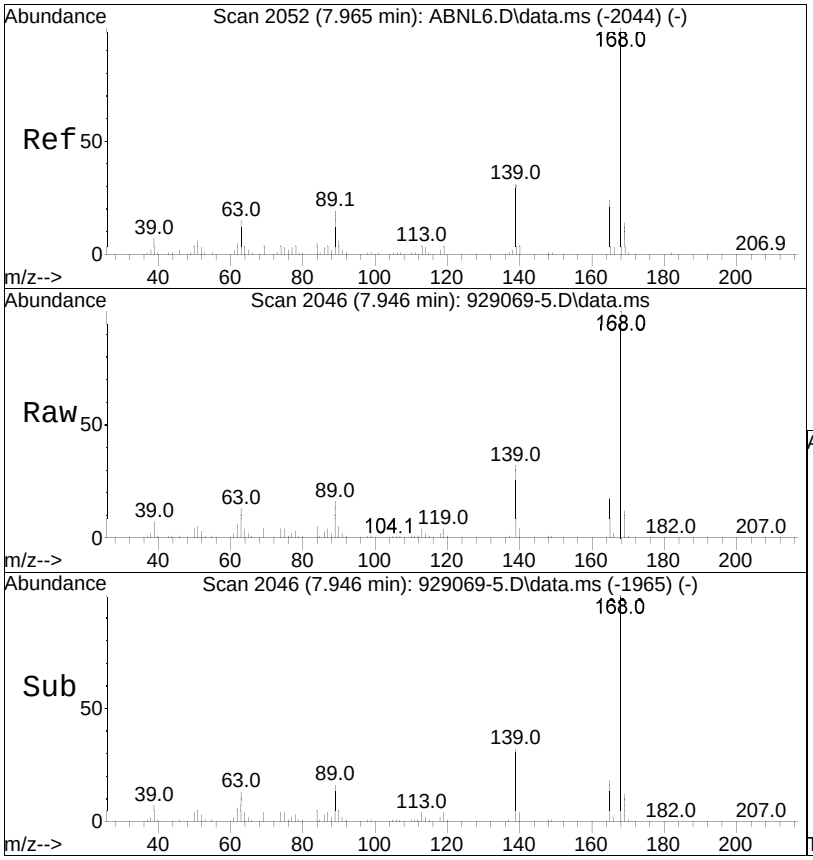


#66
Dibenzofuran
Concen: 4.80 ug/ml
RT: 7.949 min Scan# 2047
Delta R.T. 0.003 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:168 Resp: 109081

Ion	Ratio	Lower	Upper
168	100		
139	32.8	31.4	47.2

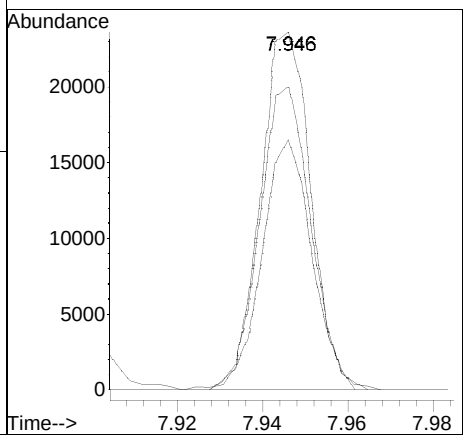


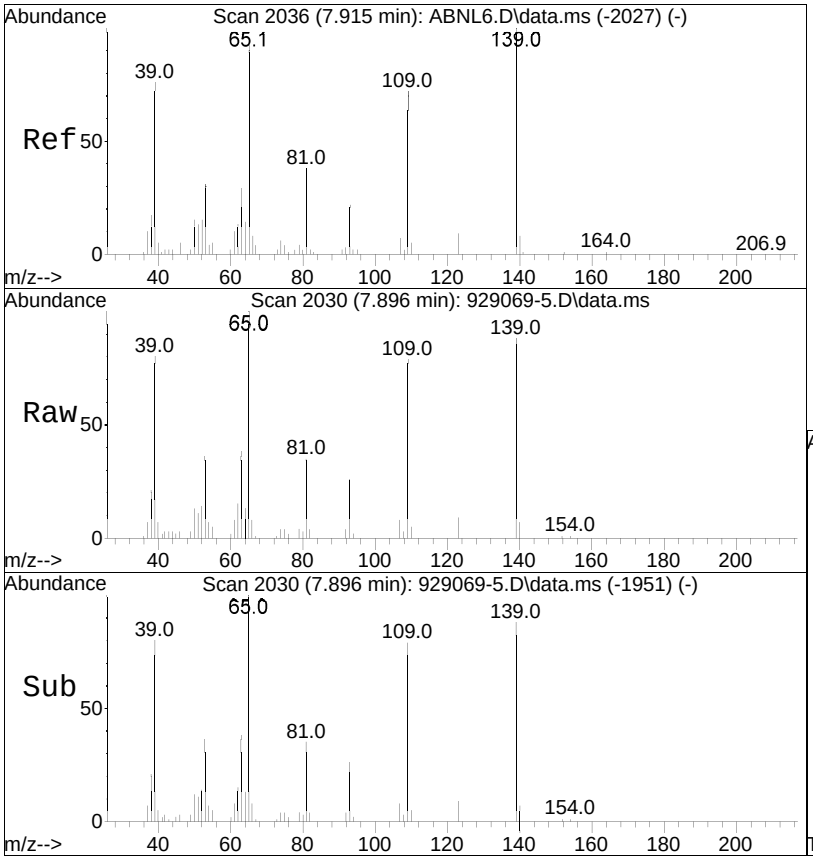


#67
2,4-Dinitrotoluene
Concen: 4.69 ug/ml
RT: 7.946 min Scan# 2046
Delta R.T. 0.003 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:165 Resp: 19170

Ion	Ratio	Lower	Upper
165	100		
89	86.8	72.0	108.0
63	70.1	52.7	79.1

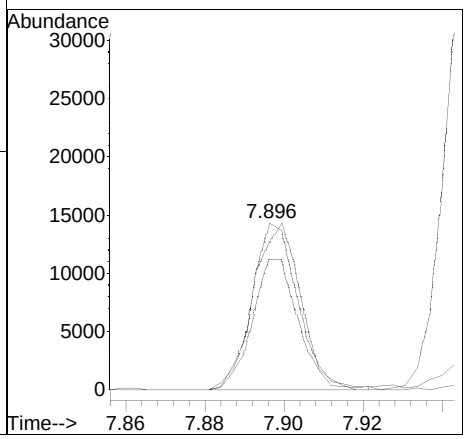


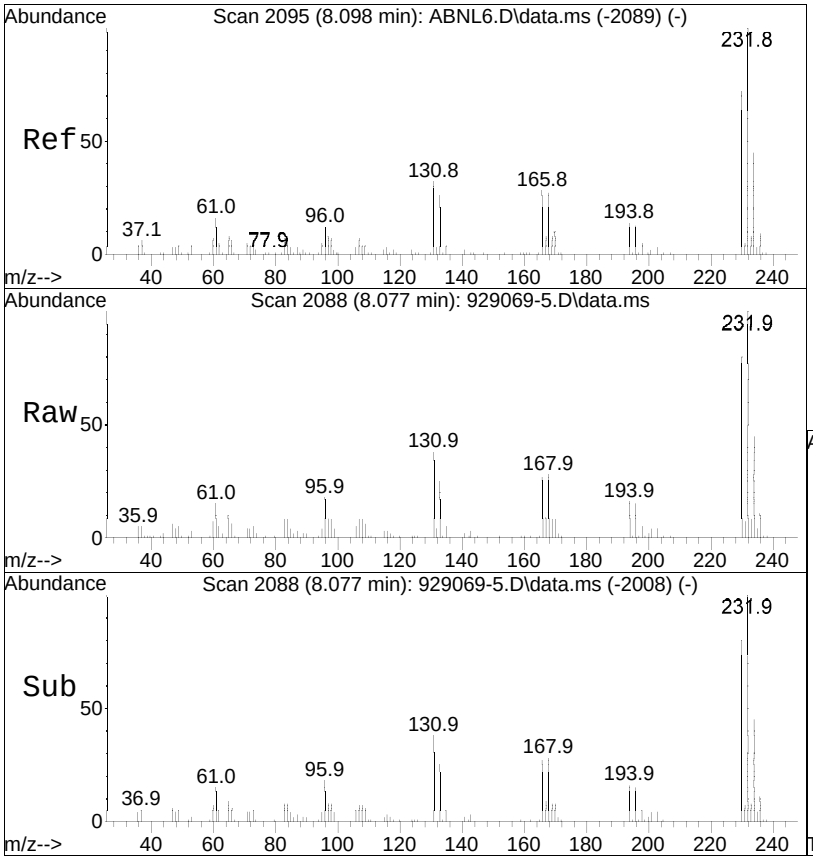


#68
4-Nitrophenol
Concen: 4.16 ug/ml
RT: 7.896 min Scan# 2030
Delta R.T. -0.003 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion: 65 Resp: 11618

Ion	Ratio	Lower	Upper
65	100		
109	78.1	47.4	71.2#
139	102.1	76.6	115.0

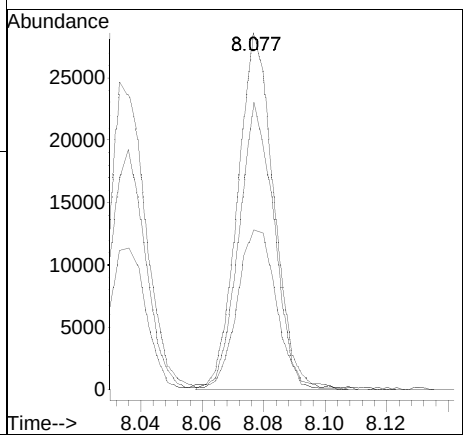


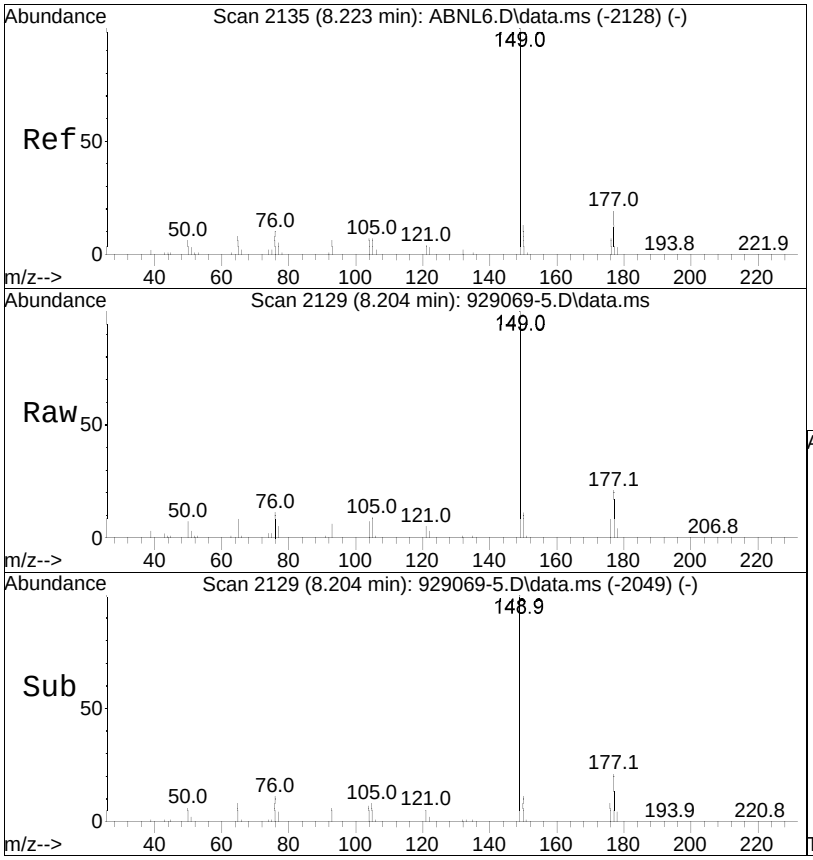


#70
2,3,4,6-Tetrachlorophenol
Concen: 4.86 ug/ml
RT: 8.077 min Scan# 2088
Delta R.T. 0.000 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:232 Resp: 23600

Ion	Ratio	Lower	Upper
232	100		
230	78.6	61.8	92.8
234	48.5	36.2	54.2

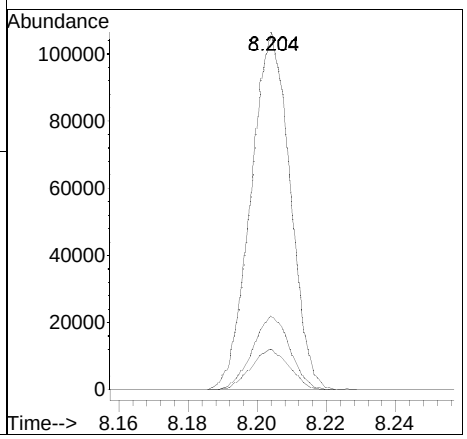


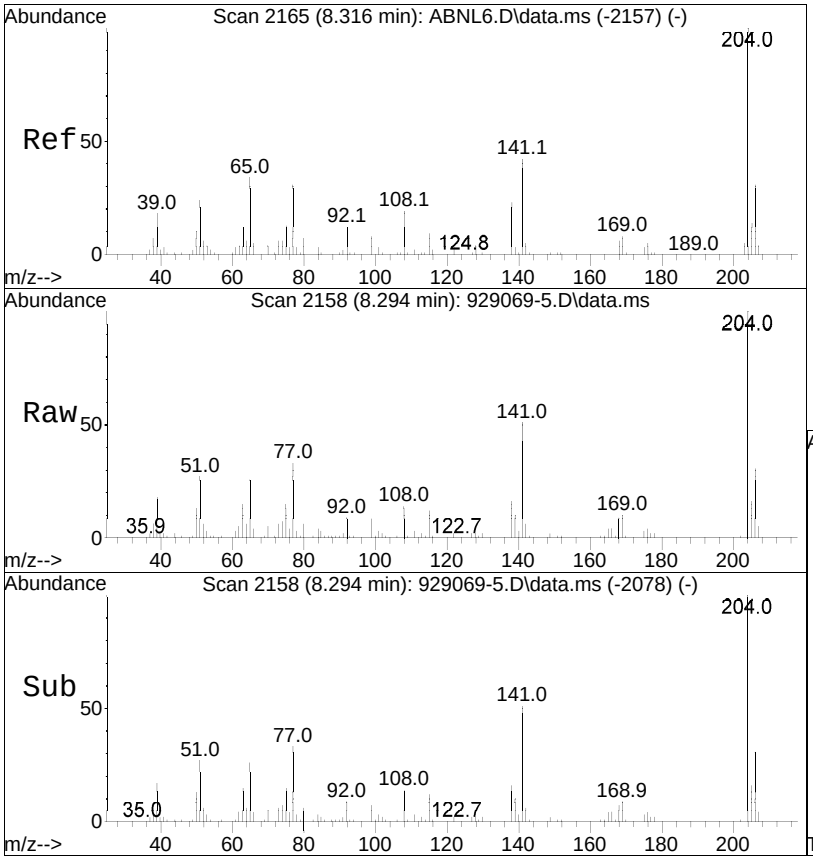


#71
Diethyl phthalate
Concen: 4.46 ug/ml
RT: 8.204 min Scan# 2129
Delta R.T. 0.000 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:149 Resp: 82938

Ion	Ratio	Lower	Upper
149	100		
177	19.9	16.1	24.1
150	11.3	9.4	14.2

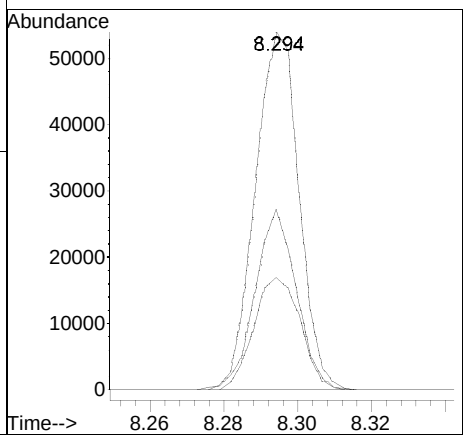


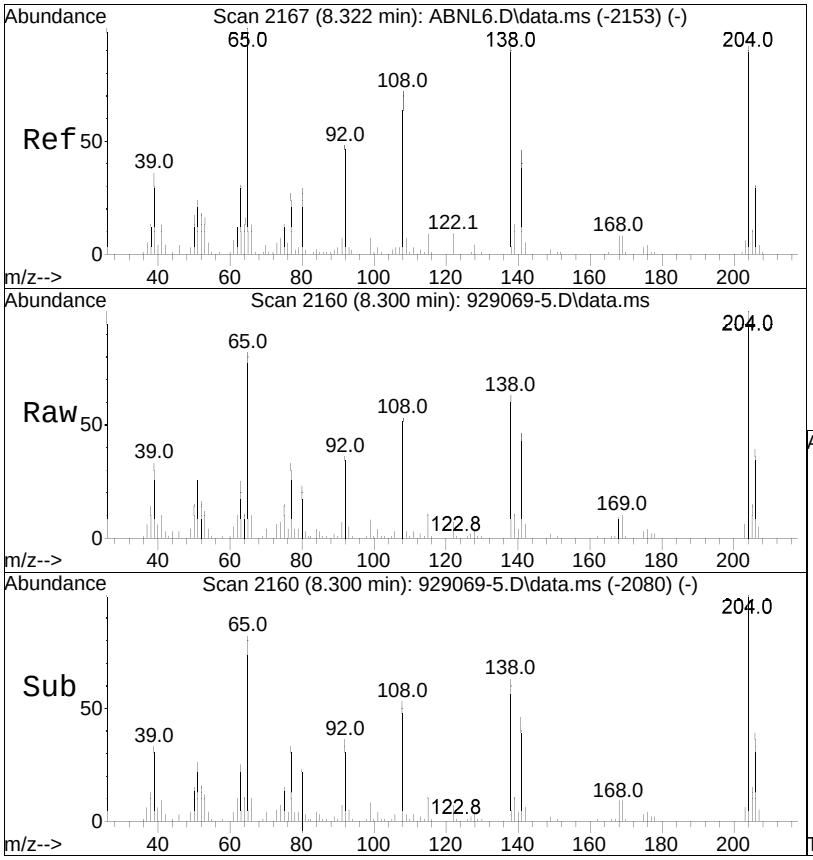


#73
4-Chlorophenyl phenyl ether
Concen: 4.59 ug/ml
RT: 8.294 min Scan# 2158
Delta R.T. 0.000 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:204 Resp: 44053

Ion	Ratio	Lower	Upper
204	100		
206	33.6	25.8	38.6
141	47.7	53.6	80.4#

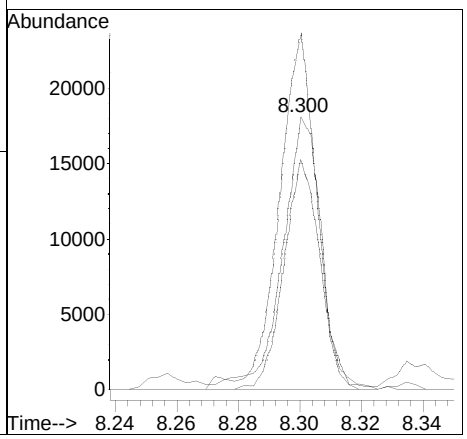


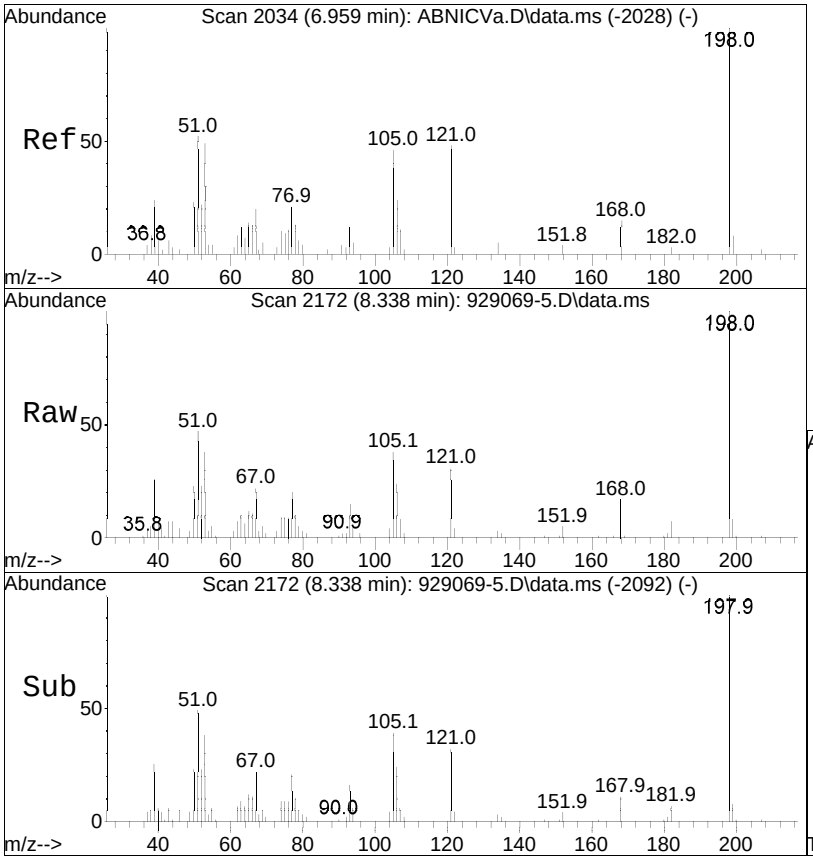


#74
4-Nitroaniline
Concen: 4.61 ug/ml
RT: 8.300 min Scan# 2160
Delta R.T. 0.000 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:138 Resp: 15848

Ion	Ratio	Lower	Upper
138	100		
108	78.4	52.1	78.1#
65	126.7	115.0	172.6

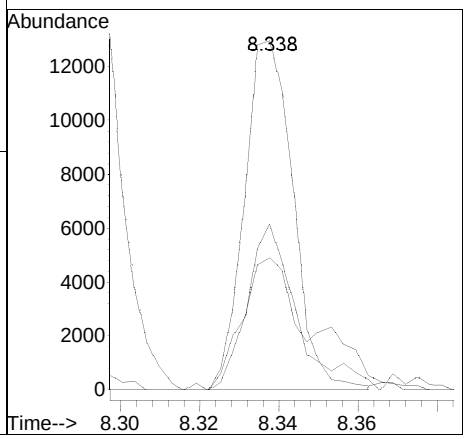


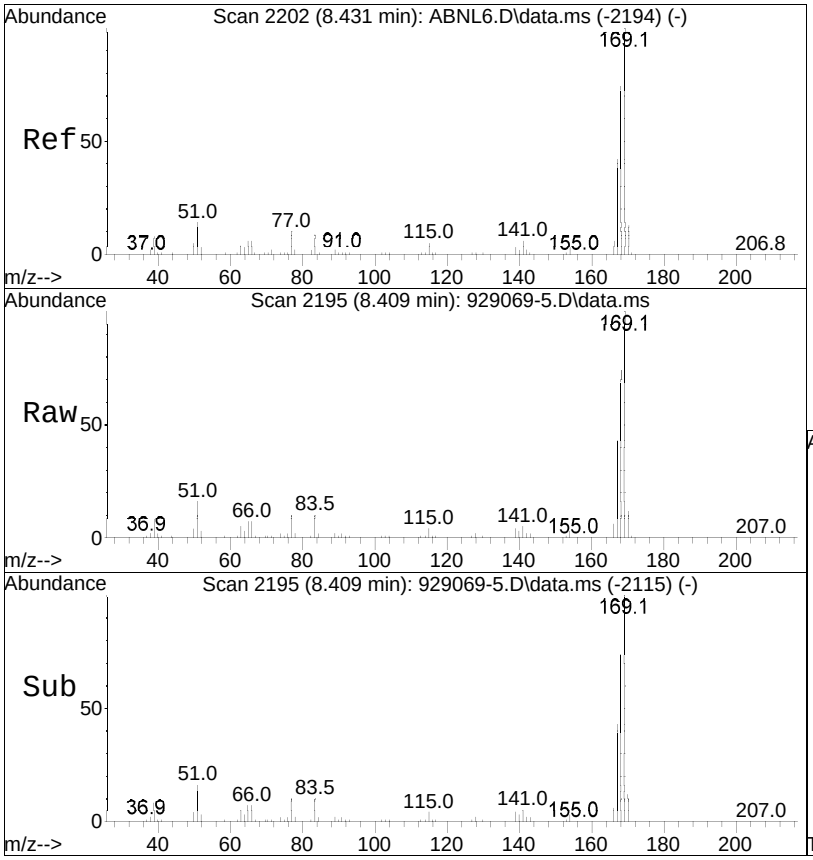


#75
4,6-Dinitro-o-cresol
Concen: 4.59 ug/ml
RT: 8.338 min Scan# 2172
Delta R.T. 0.000 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:198 Resp: 11088

Ion	Ratio	Lower	Upper
198	100		
51	50.3	76.0	114.0#
105	38.2	45.6	68.4#

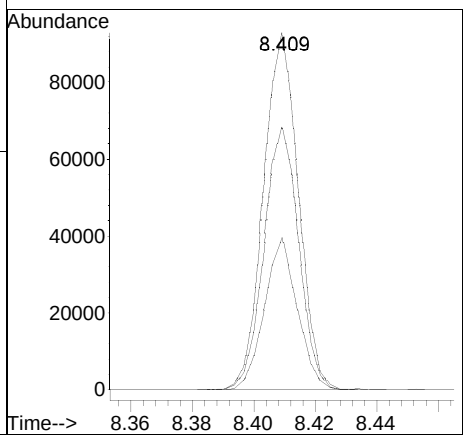


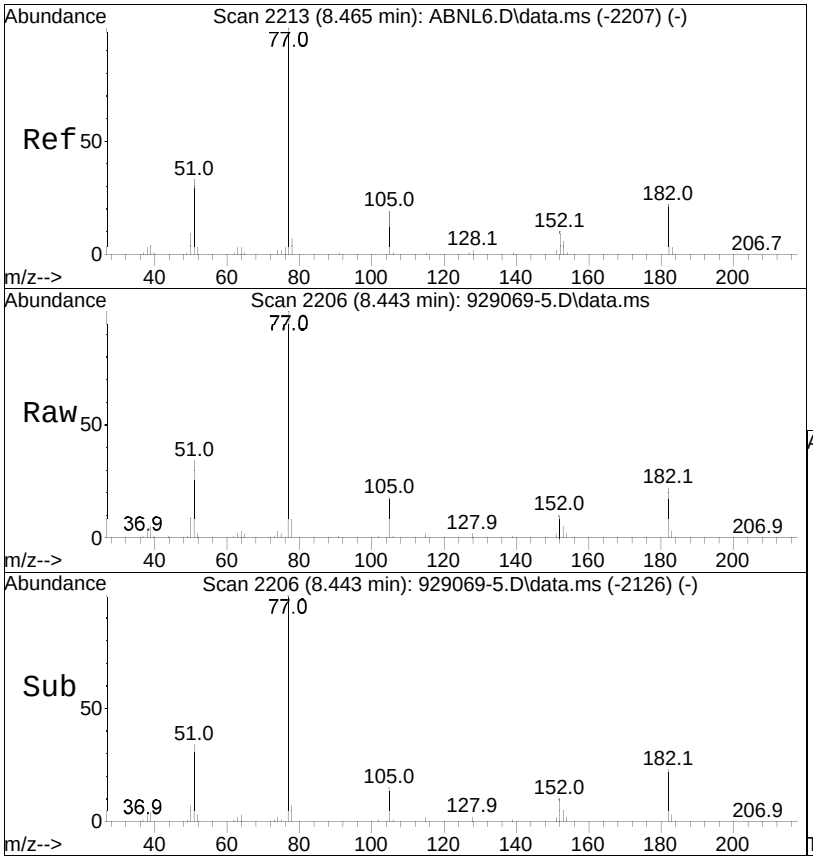


#76
NDPA/DPA
Concen: 4.68 ug/ml
RT: 8.409 min Scan# 2195
Delta R.T. 0.000 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:169 Resp: 72931

Ion	Ratio	Lower	Upper
169	100		
168	73.6	54.0	81.0
167	40.3	28.6	42.8

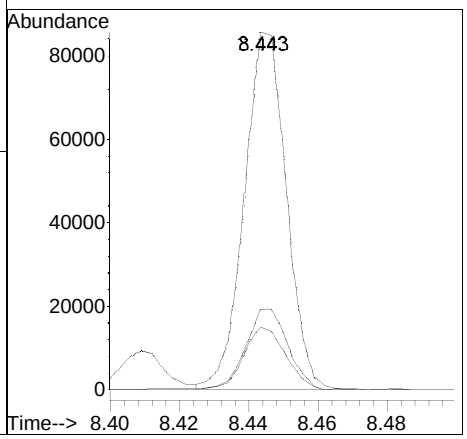


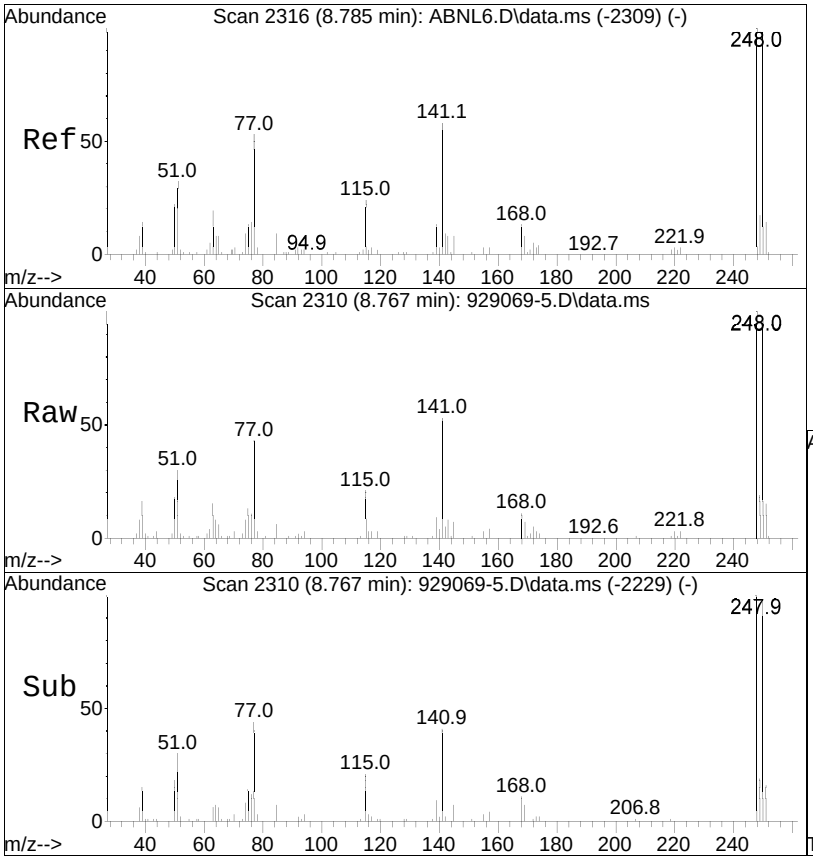


#77
Azobenzene
Concen: 4.60 ug/ml
RT: 8.443 min Scan# 2206
Delta R.T. 0.000 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion: 77 Resp: 71741

Ion	Ratio	Lower	Upper
77	100		
182	22.8	17.4	26.2
105	17.8	15.4	23.2

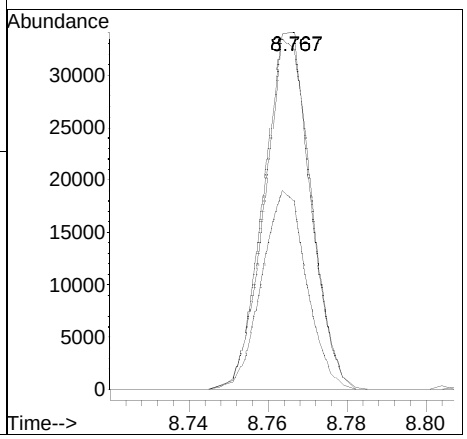


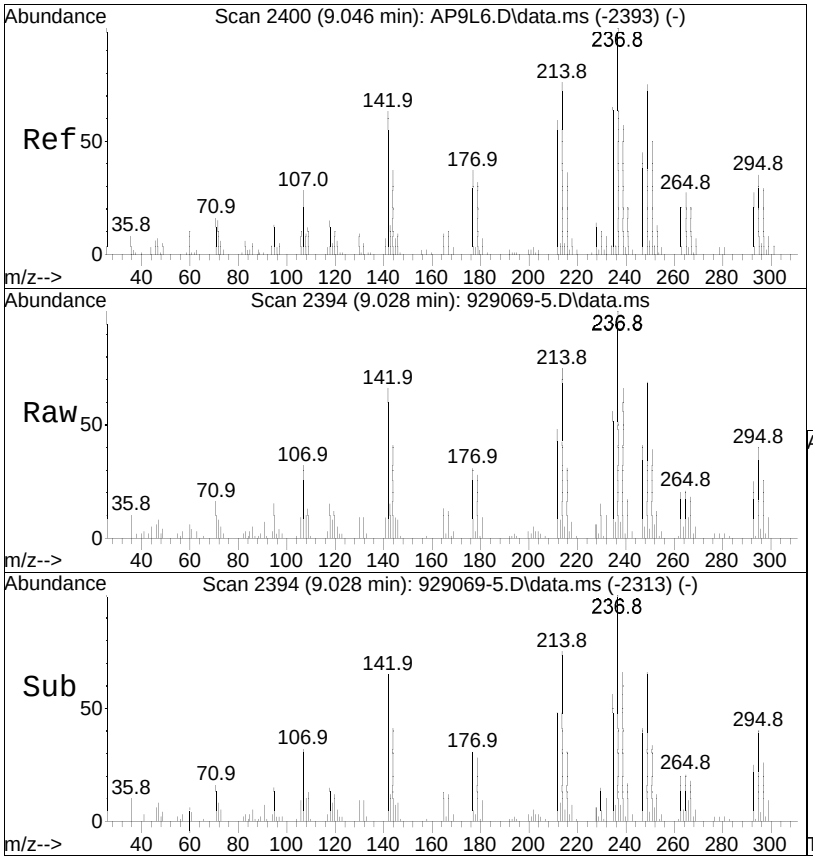


#79
4-Bromophenyl phenyl ether
Concen: 4.66 ug/ml
RT: 8.767 min Scan# 2310
Delta R.T. 0.003 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:248 Resp: 27754

Ion	Ratio	Lower	Upper
248	100		
141	53.9	76.6	114.8#
250	97.9	77.3	115.9

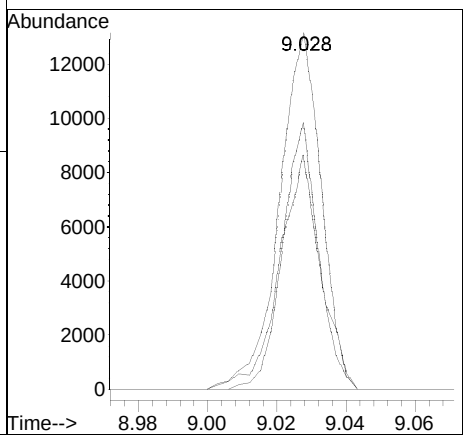


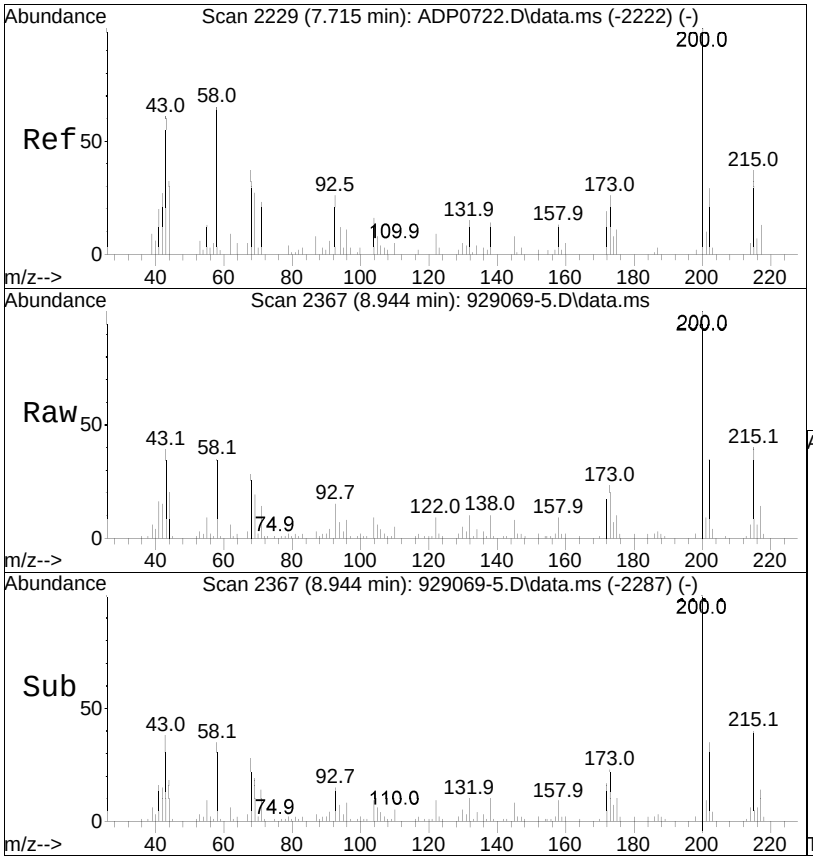


#84
Pentachloronitrobenzene
Concen: 5.04 ug/ml
RT: 9.028 min Scan# 2394
Delta R.T. 0.003 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:237 Resp: 11041

Ion	Ratio	Lower	Upper
237	100		
142	63.1	77.0	115.4#
214	65.7	58.2	87.4

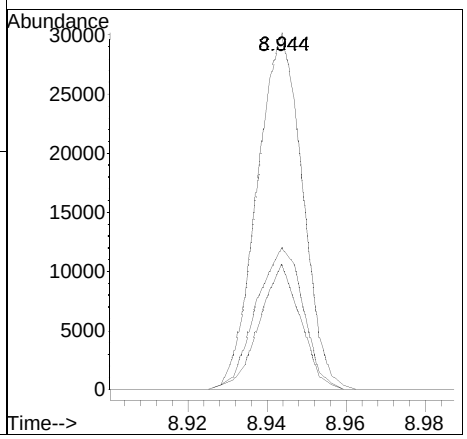


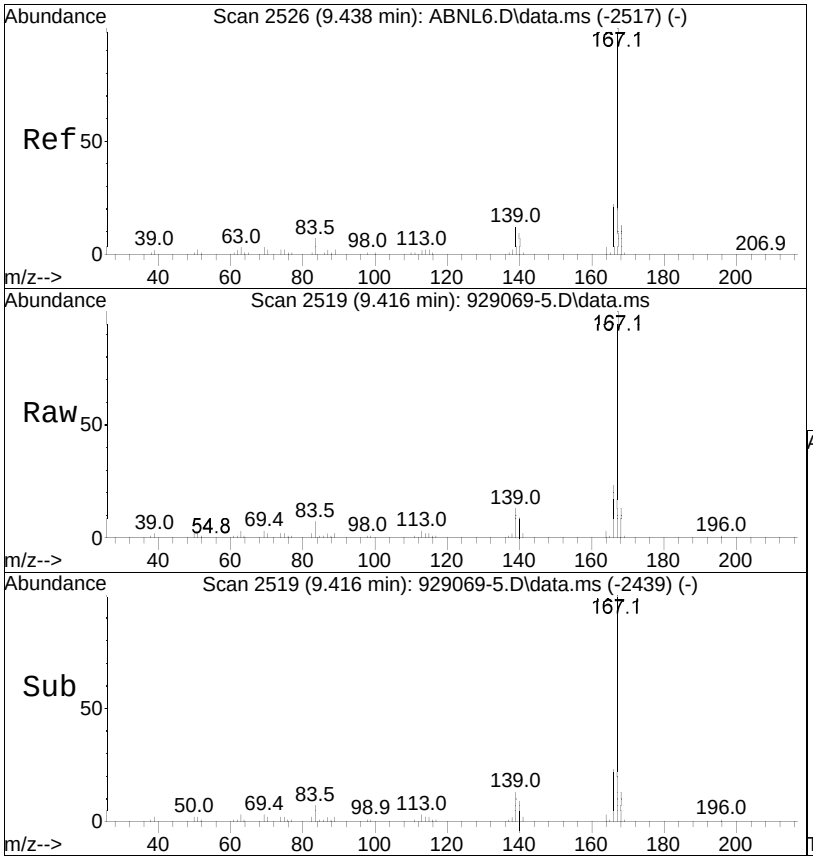


#86
Atrazine
Concen: 4.14 ug/ml
RT: 8.944 min Scan# 2367
Delta R.T. 0.000 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:200 Resp: 23939

Ion	Ratio	Lower	Upper
200	100		
202	31.9	25.8	38.6
215	41.3	40.2	60.4

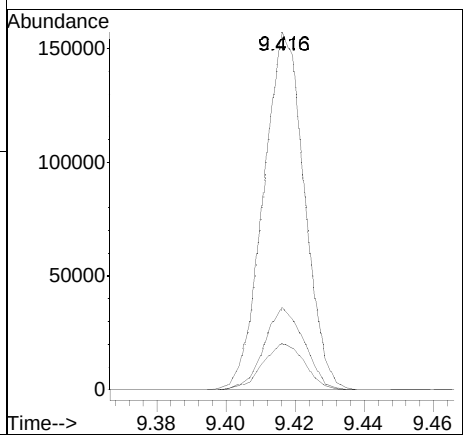


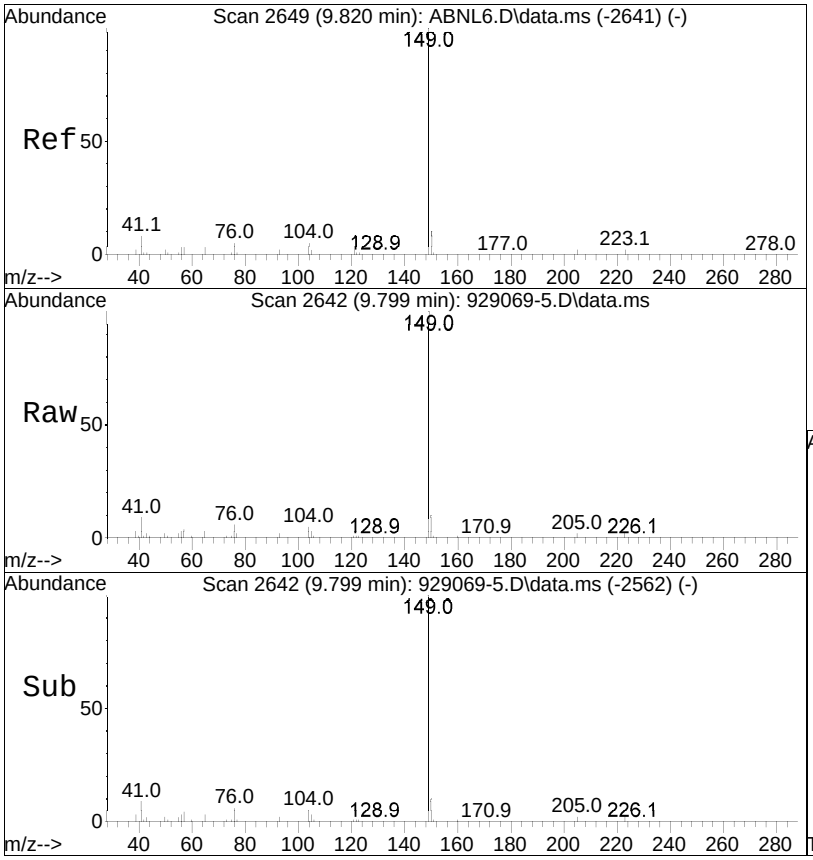


#90
Carbazole
Concen: 4.62 ug/ml
RT: 9.416 min Scan# 2519
Delta R.T. 0.000 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:167 Resp: 128229

Ion	Ratio	Lower	Upper
167	100		
168	13.4	10.6	15.8
166	22.6	17.4	26.0

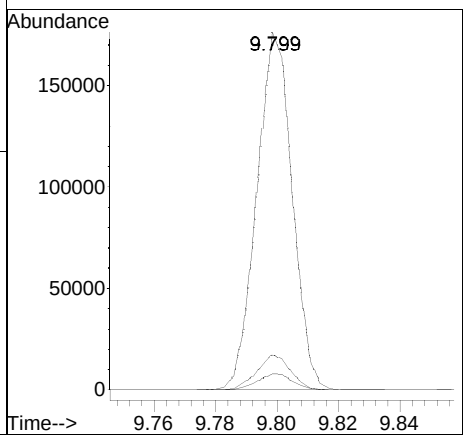


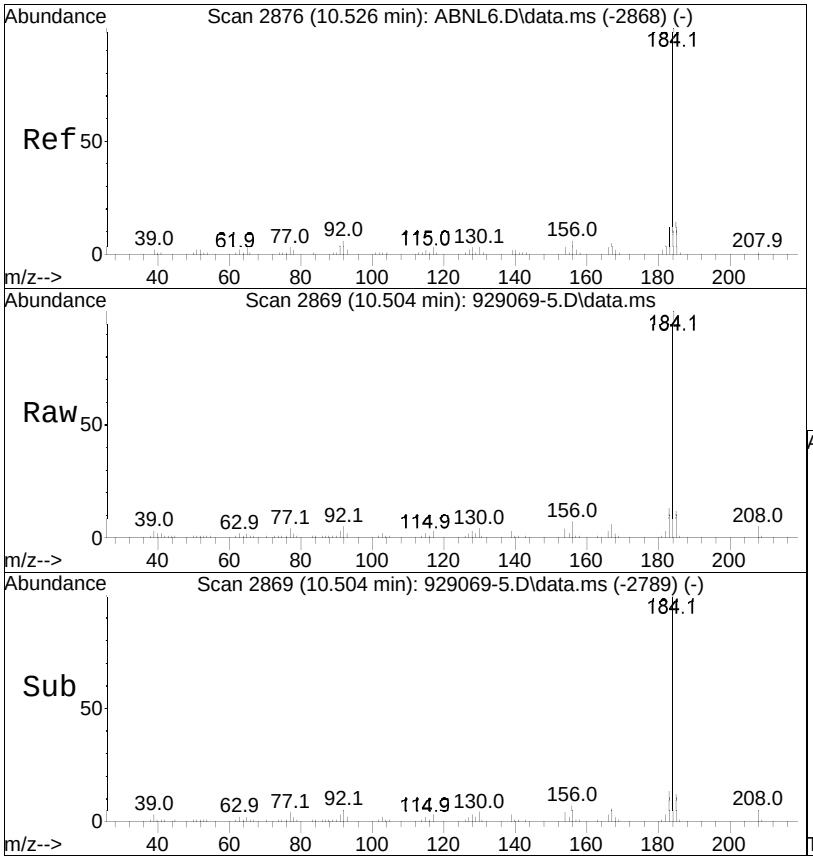


#91
Di-n-butylphthalate
Concen: 4.62 ug/ml
RT: 9.799 min Scan# 2642
Delta R.T. 0.000 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:149 Resp: 139313

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.0	10.6
104	4.6	4.5	6.7

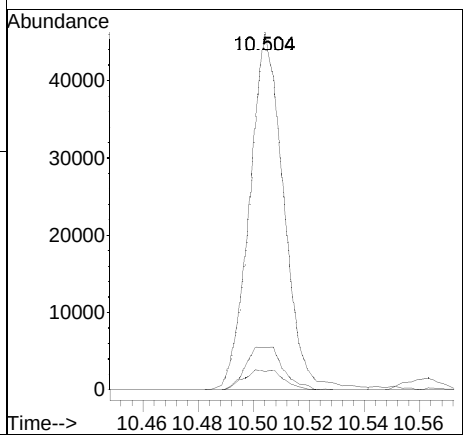


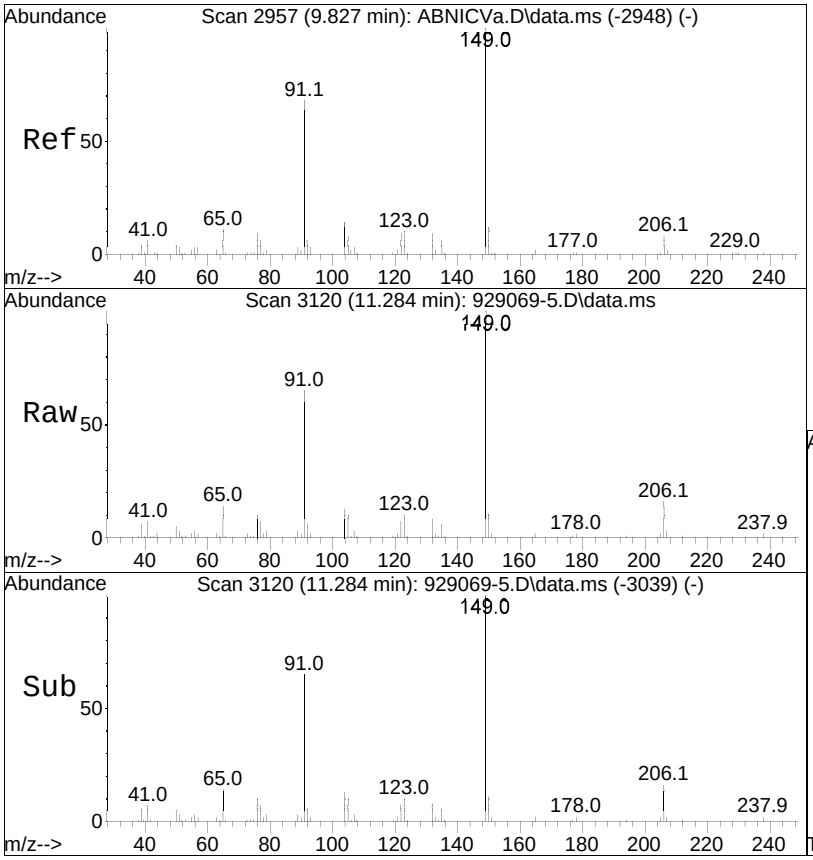


#93
Benzidine
Concen: 1.83 ug/ml
RT: 10.504 min Scan# 2869
Delta R.T. 0.000 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:184 Resp: 39199

Ion	Ratio	Lower	Upper
184	100		
92	6.4	9.1	13.7#
185	13.2	11.1	16.7

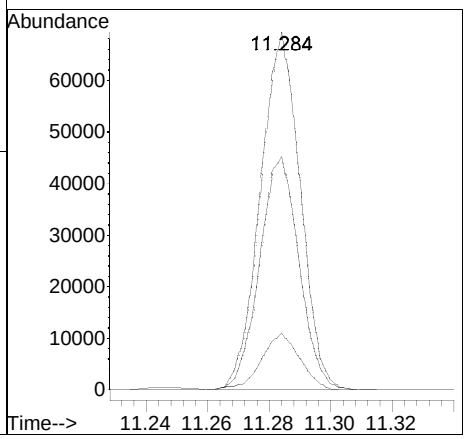


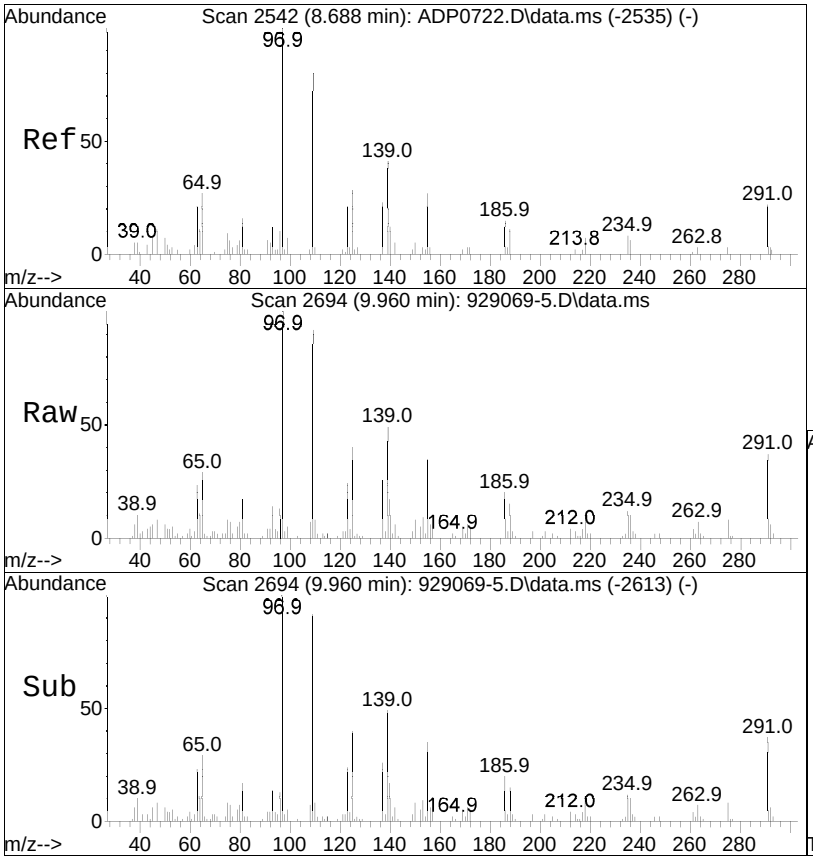


#96
Butyl benzyl phthalate
Concen: 4.46 ug/ml
RT: 11.284 min Scan# 3120
Delta R.T. 0.003 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:149 Resp: 61701

Ion	Ratio	Lower	Upper
149	100		
91	64.9	63.3	94.9
206	15.4	13.9	20.9

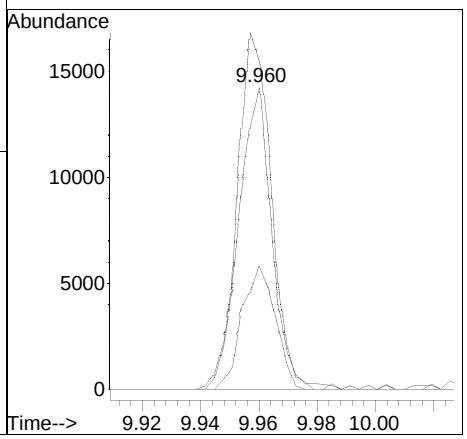


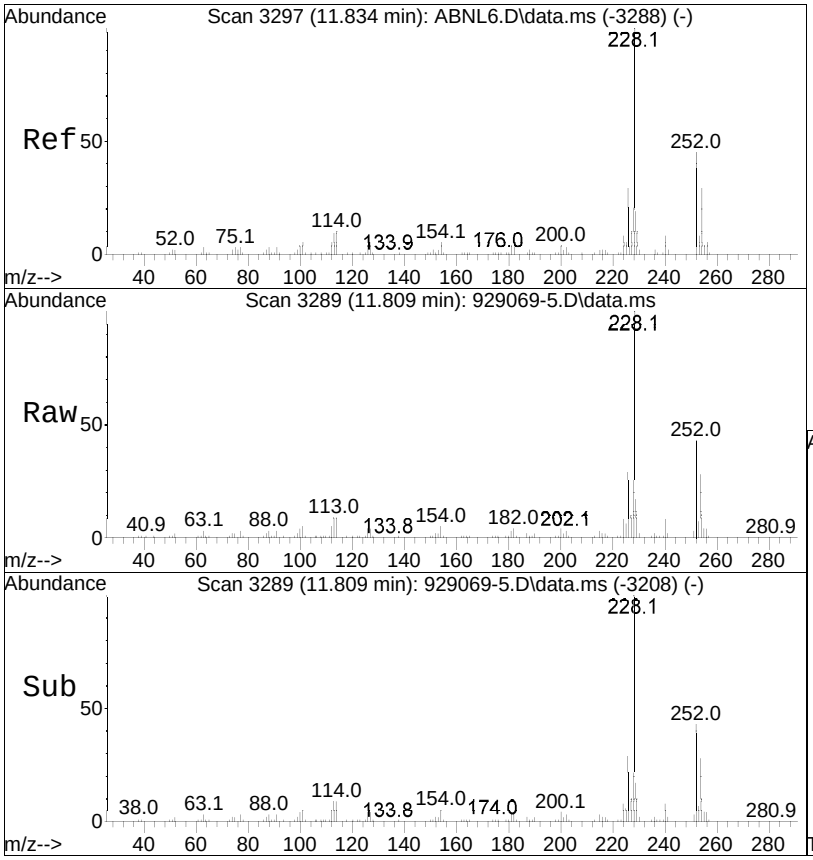


#101
Parathion
Concen: 4.98 ug/ml
RT: 9.960 min Scan# 2694
Delta R.T. 0.003 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:109 Resp: 11237

Ion	Ratio	Lower	Upper
109	100		
97	120.2	87.4	131.2
291	41.3	34.2	51.2

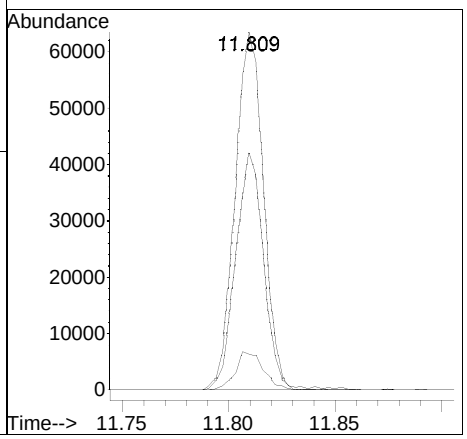


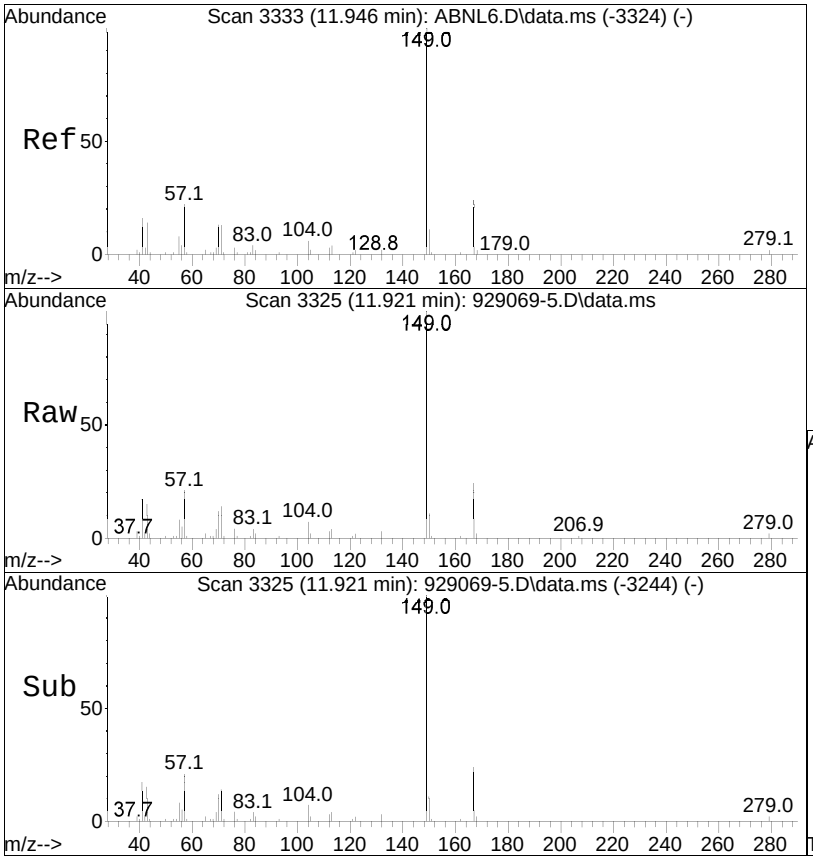


#105
3,3'-Dichlorobenzidine
Concen: 4.51 ug/ml
RT: 11.809 min Scan# 3289
Delta R.T. 0.003 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:252 Resp: 58859

Ion	Ratio	Lower	Upper
252	100		
126	10.7	14.5	21.7#
254	64.4	51.2	76.8

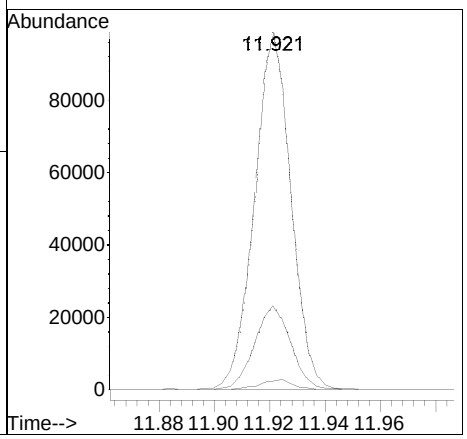


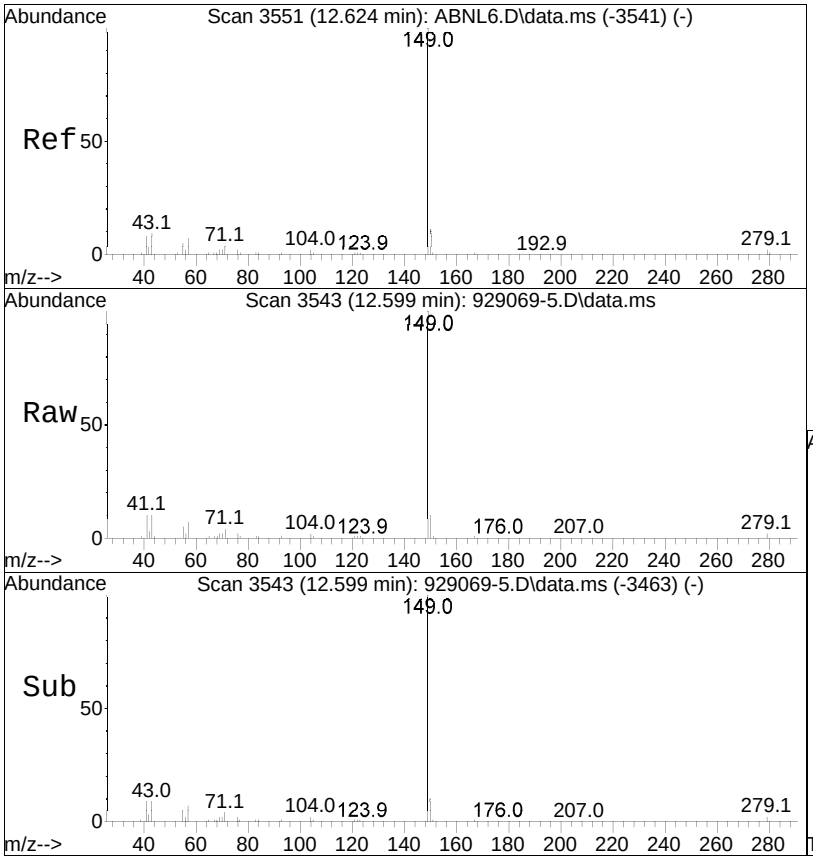


#107
Bis(2-ethylhexyl)phthalate
Concen: 4.86 ug/ml
RT: 11.921 min Scan# 3325
Delta R.T. 0.003 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:149 Resp: 89284

Ion	Ratio	Lower	Upper
149	100		
167	23.4	22.1	33.1
279	2.3	3.0	4.4#

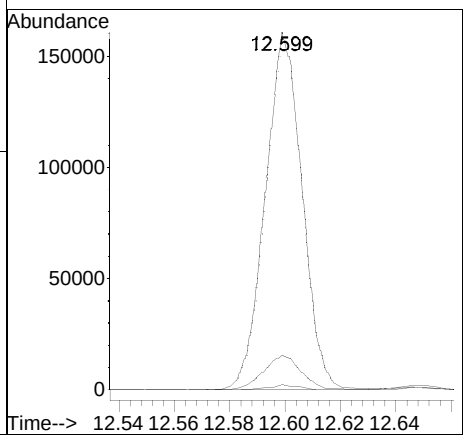




#108
Di-n-octylphthalate
Concen: 4.69 ug/ml
RT: 12.599 min Scan# 3543
Delta R.T. 0.000 min
Lab File: 929069-5.D
Acq: 5 Jun 2024 12:24 pm

Tgt Ion:149 Resp: 146935

Ion	Ratio	Lower	Upper
149	100		
43	10.0	18.8	28.2#
167	1.2	1.3	1.9#



Manual Integration Report

Data Path	: I:\8270\Dakota\240605RVT\	QMethod	: FS240531RVTDakota.m
Data File	: 929069-5.D	Operator	: Dakota:sz
Date Inj'd	: 6/5/2024 12:24 pm	Instrument	: Dakota
Sample	: WG1929069-5,32,,gmr	Quant Date	: 6/5/2024 12:44 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : 929069-7.D
Acq On : 5 Jun 2024 1:54 pm
Operator : Dakota:sz
Sample : WG1929069-7,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 14:12:30 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 14:13:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.810	152	25541	4.000	ug/ml	0.00
Standard Area 1 = 25549			Recovery = 99.97%			
27) IS2_1,4-Dichlorobenzen...	4.810	152	25541	4.000	ug/ml	0.00
Standard Area 3 = 24259			Recovery = 105.28%			
34) IS1_Naphthalene-d8	6.044	136	85629	4.000	ug/ml	0.00
Standard Area 1 = 92758			Recovery = 92.31%			
54) IS2_Naphthalene-d8	6.044	136	85629	4.000	ug/ml	0.00
Standard Area 3 = 86554			Recovery = 98.93%			
62) IS1_Acenaphthene-d10	7.747	164	53990	4.000	ug/ml	0.00
Standard Area 1 = 60587			Recovery = 89.11%			
82) IS2_Acenaphthene-d10	7.747	164	53990	4.000	ug/ml	0.00
Standard Area 3 = 57668			Recovery = 93.62%			
85) IS3_Acenaphthene-d10	7.747	164	53990	4.000	ug/ml	0.00
Standard Area 2 = 66116			Recovery = 81.66%			
87) IS1_Phenanthrene-d10	9.180	188	112379	4.000	ug/ml	0.00
Standard Area 1 = 137458			Recovery = 81.76%			
99) IS3_Phenanthrene-d10	9.180	188	112379	4.000	ug/ml	0.00
Standard Area 2 = 156367			Recovery = 71.87%			
103) IS1_Chrysene-d12	11.825	240	107579	4.000	ug/ml	0.00
Standard Area 1 = 145741			Recovery = 73.82%			
112) IS1_Perylene-d12	13.295	264	123989	4.000	ug/ml	0.00
Standard Area 1 = 171394			Recovery = 72.34%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.545	112	21576	3.369	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 168.45%#			
7) Phenol-d6	4.484	99	24048	3.028	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 151.40%#			
19) Nitrobenzene-d5	5.348	82	13057	1.856	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 185.60%#			
45) 2-Fluorobiphenyl	7.113	172	37800	1.920	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 192.00%#			
78) 2,4,6-Tribromophenol	8.512	330	10603	4.209	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 210.45%#			
95) 4-Terphenyl-d14	10.759	244	54270	1.929	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 192.90%#			

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : 929069-7.D
Acq On : 5 Jun 2024 1:54 pm
Operator : Dakota:sz
Sample : WG1929069-7,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 14:12:30 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 14:13:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	4.605	128	26933	3.762	ug/ml	90
8) Phenol	4.496	94	28039	3.152	ug/ml#	63
9) Bis(2-chloroethyl)ether	4.568	93	22563	3.729	ug/ml	99
14) Bis(2-chloroisopropyl)...	5.099	45	37865	3.759	ug/ml#	54
15) 2-Methylphenol	5.087	108	22608	3.777	ug/ml	98
17) n-Nitrosodi-n-propylamine	5.223	70	18870	3.508	ug/ml#	88
18) 3-Methylphenol/4-Methy...	5.239	108	23809	3.648	ug/ml	93
20) Nitrobenzene	5.366	77	25935	3.746	ug/ml	96
21) Isophorone	5.606	82	48391	3.609	ug/ml	94
22) 2-Nitrophenol	5.683	139	12779	4.039	ug/ml#	87
23) 2,4-Dimethylphenol	5.752	107	21430	3.452	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.839	93	30855	3.841	ug/ml#	95
25) 2,4-Dichlorophenol	5.920	162	28581	3.975	ug/ml#	92
28) Benzaldehyde	4.378	105	21643	3.534	ug/ml	98
29) Acetophenone	5.208	105	37669	3.703	ug/ml#	83
37) 4-Chloroaniline	6.131	65	9537	3.781	ug/ml	88
39) p-Chloro-m-cresol	6.622	107	22705	4.066	ug/ml#	86
42) Hexachlorocyclopentadiene	6.914	237	17387	3.367	ug/ml	98
43) 2,4,6-Trichlorophenol	7.026	196	23259	4.071	ug/ml	98
44) 2,4,5-Trichlorophenol	7.057	196	26581	4.278	ug/ml	98
47) 2-Nitroaniline	7.315	138	15393	4.025	ug/ml	84
50) Dimethyl phthalate	7.514	163	74938	3.908	ug/ml#	98
52) 2,6-Dinitrotoluene	7.558	165	12811	3.803	ug/ml#	81
59) Caprolactam	6.426	55	5410	1.958	ug/ml#	66
60) 1,2,4,5-Tetrachloroben...	6.911	216	36202	3.766	ug/ml	94
61) Biphenyl	7.200	154	76640	3.847	ug/ml	98
63) 3-Nitroaniline	7.713	138	13617	4.270	ug/ml	89
65) 2,4-Dinitrophenol	7.815	184	6557	3.852	ug/ml#	84
66) Dibenzofuran	7.946	168	94708	4.214	ug/ml	90
67) 2,4-Dinitrotoluene	7.946	165	16632	4.122	ug/ml	95
68) 4-Nitrophenol	7.896	65	10214	3.698	ug/ml#	81
70) 2,3,4,6-Tetrachlorophenol	8.077	232	20285	4.229	ug/ml	98
71) Diethyl phthalate	8.204	149	70611	3.842	ug/ml	99
73) 4-Chlorophenyl phenyl ...	8.294	204	38488	4.060	ug/ml#	82
74) 4-Nitroaniline	8.300	138	13779	4.055	ug/ml	83
75) 4,6-Dinitro-o-cresol	8.338	198	9855	4.180	ug/ml#	64

Data Path : I:\8270\Dakota\240605RVT\
Data File : 929069-7.D
Acq On : 5 Jun 2024 1:54 pm
Operator : Dakota:sz
Sample : WG1929069-7,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 14:12:30 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 14:13:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240605RVT\ABN0605.D
: 2 - I:\8270\dakota\240605RVT\ADP0605.D
: 3 - I:\8270\dakota\240605RVT\AP90605.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	NDPA/DPA	8.409	169	62538	4.060	ug/ml	92
79)	4-Bromophenyl phenyl e...	8.763	248	22761	3.866	ug/ml#	81
86)	Atrazine	8.944	200	20434	3.576	ug/ml	91
90)	Carbazole	9.416	167	110095	4.130	ug/ml	99
91)	Di-n-butylphthalate	9.802	149	118048	4.073	ug/ml	98
96)	Butyl benzyl phthalate	11.284	149	51722	3.894	ug/ml#	83
105)	3,3'-Dichlorobenzidine	11.809	252	48578	3.819	ug/ml#	95
107)	Bis(2-ethylhexyl)phtha...	11.921	149	75688	4.224	ug/ml#	92
108)	Di-n-octylphthalate	12.602	149	126438	4.137	ug/ml#	74

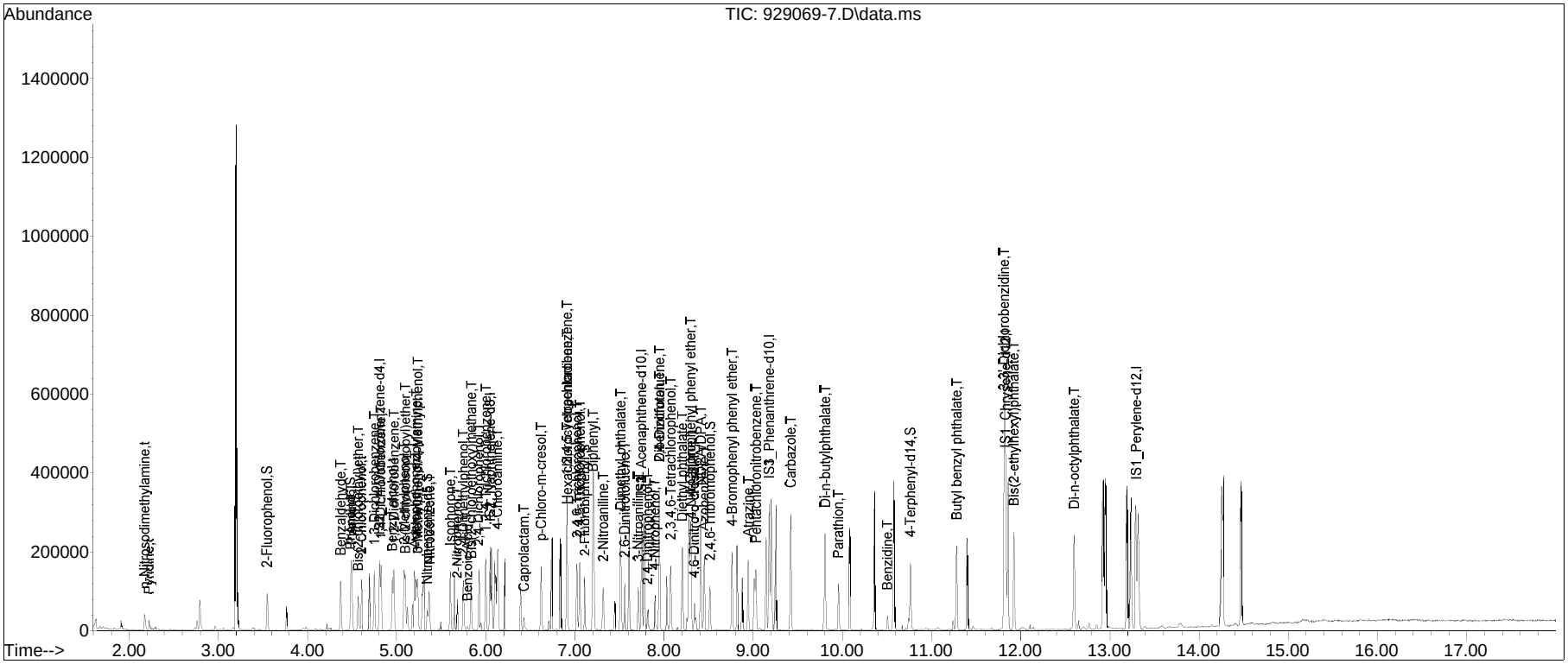
(#) = qualifier out of range (m) = manual integration (+) = signals summed

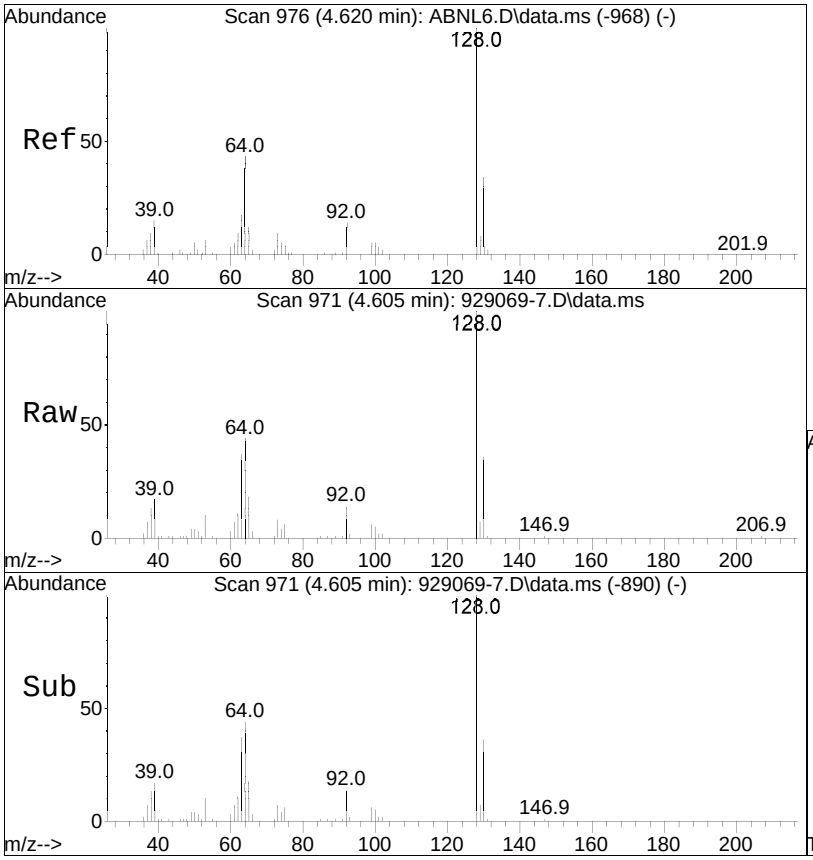
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240605RVT\
Data File : 929069-7.D
Acq On : 5 Jun 2024 1:54 pm
Operator : Dakota:sz
Sample : WG1929069-7,32,,gmr
Misc : WG1929981,WG1929069,ical21172
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 14:12:30 2024
Quant Method : I:\8270\dakota\240605RVT\FS240531RVTDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 14:13:04 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90605.D•

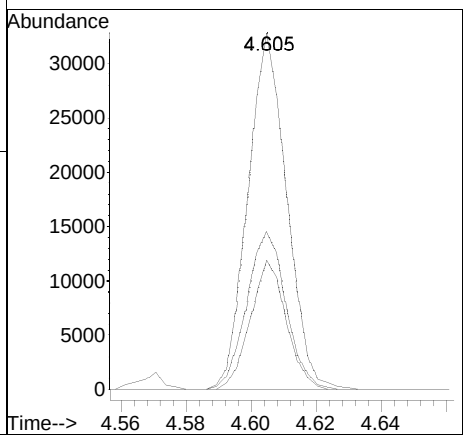


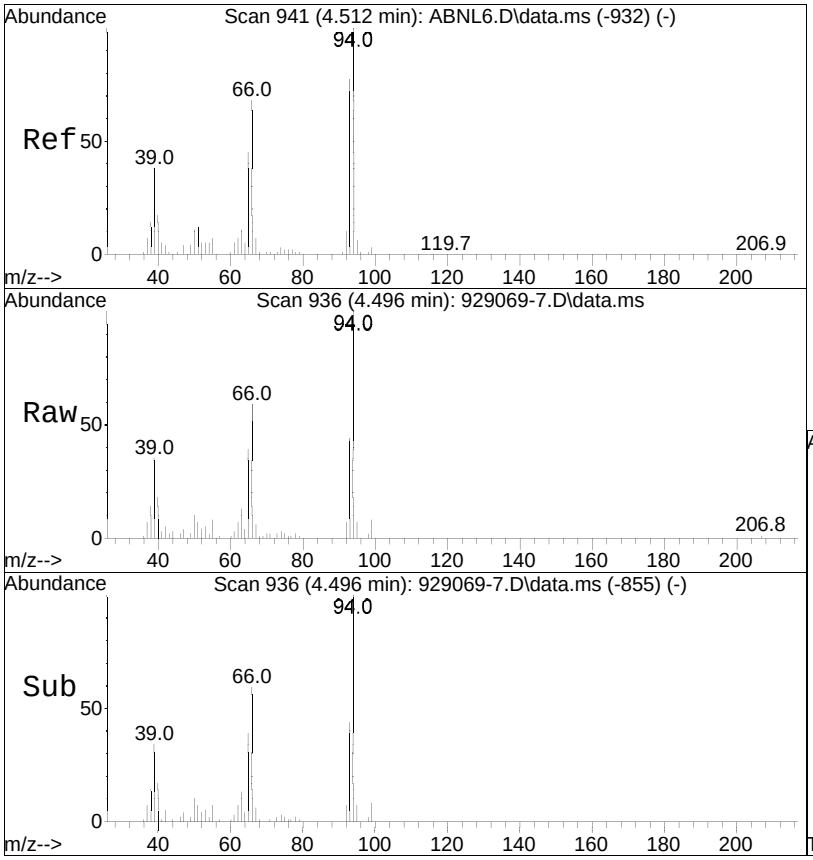


#6
2-Chlorophenol
Concen: 3.76 ug/ml
RT: 4.605 min Scan# 971
Delta R.T. 0.003 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:128 Resp: 26933

Ion	Ratio	Lower	Upper
128	100		
64	45.1	45.1	67.7
130	33.8	26.2	39.4

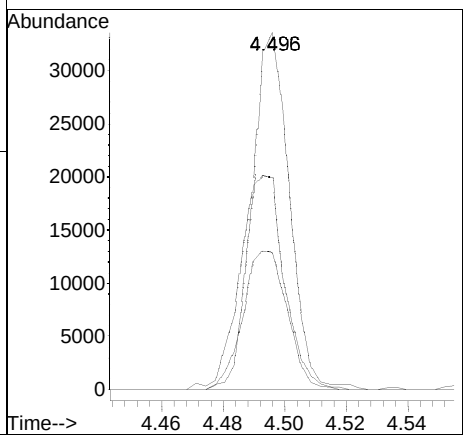


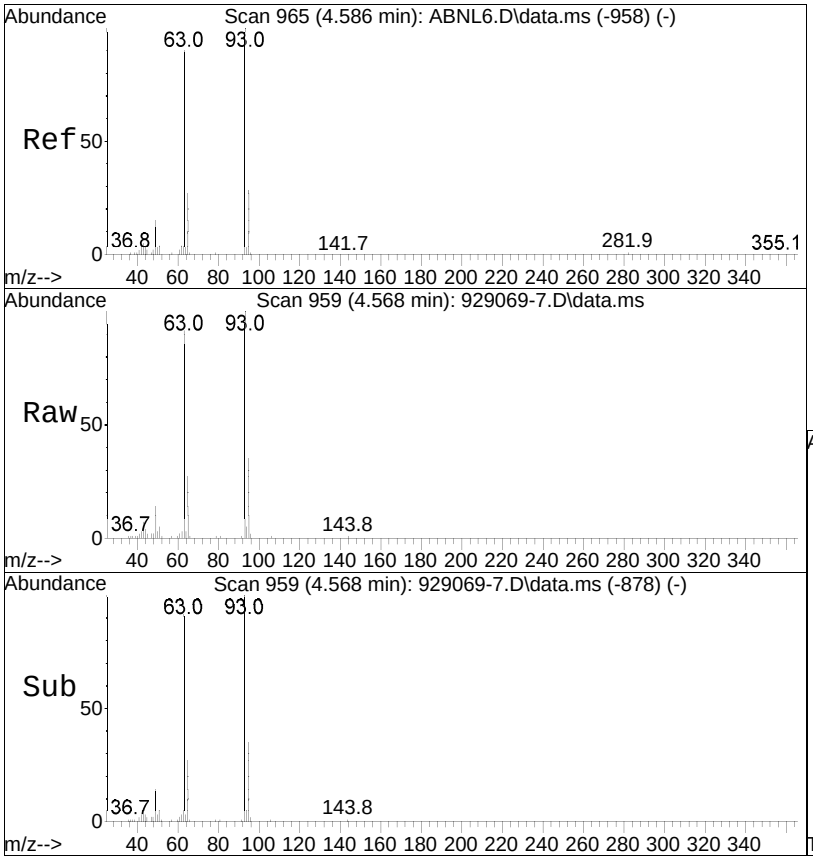


#8
Phenol
Concen: 3.15 ug/ml
RT: 4.496 min Scan# 936
Delta R.T. 0.003 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion: 94 Resp: 28039

Ion	Ratio	Lower	Upper
94	100		
65	46.3	26.0	39.0#
66	71.8	33.8	50.8#

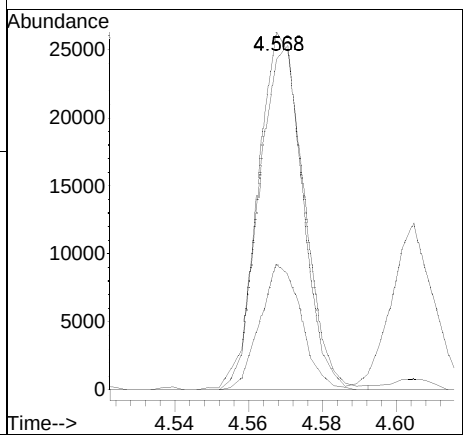


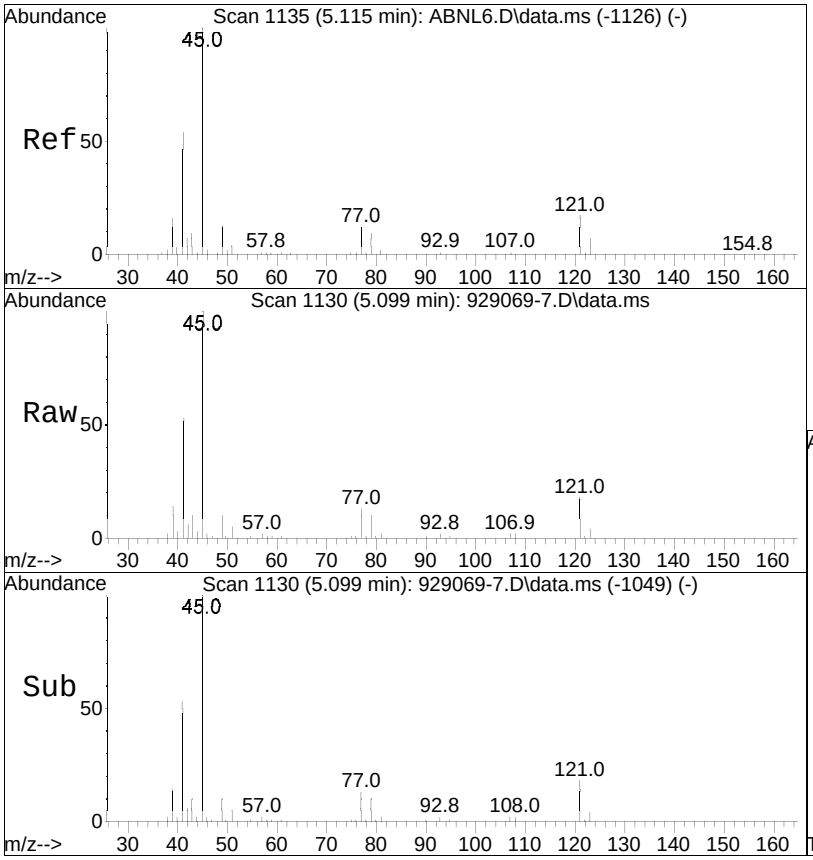


#9
Bis(2-chloroethyl)ether
Concen: 3.73 ug/ml
RT: 4.568 min Scan# 959
Delta R.T. -0.000 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion: 93 Resp: 22563

Ion	Ratio	Lower	Upper
93	100		
63	92.2	74.6	111.8
95	31.9	25.9	38.9

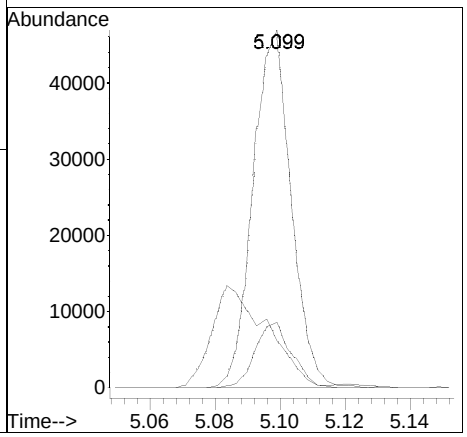


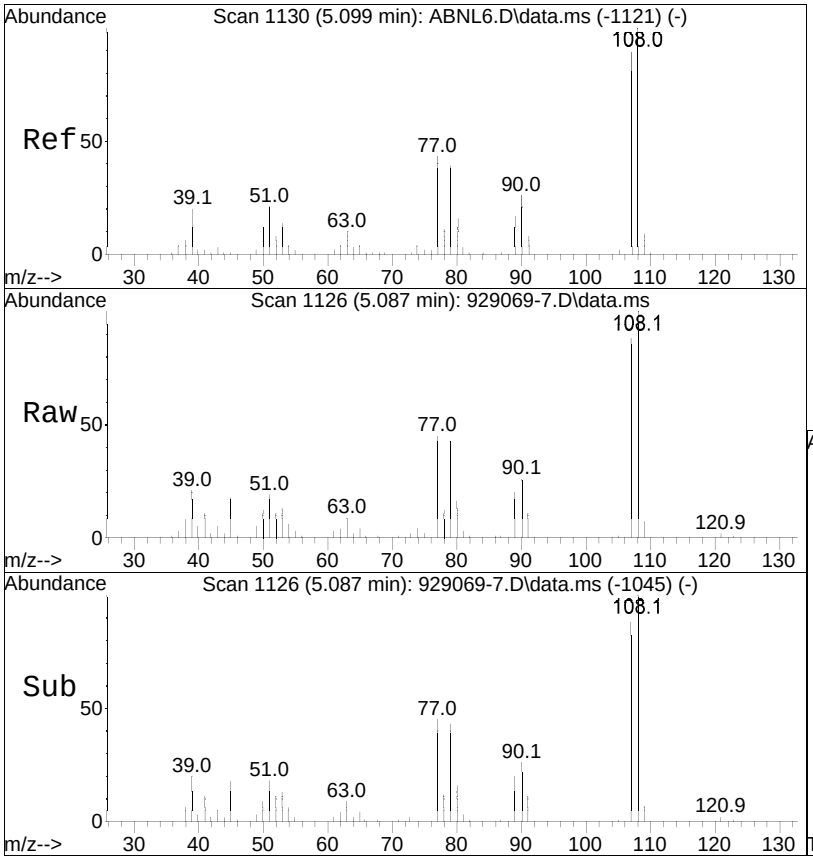


#14
Bis(2-chloroisopropyl)ether
Concen: 3.76 ug/ml
RT: 5.099 min Scan# 1130
Delta R.T. 0.003 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion: 45 Resp: 37865

Ion	Ratio	Lower	Upper
45	100		
121	17.7	9.8	14.6#
77	41.8	6.1	9.1#

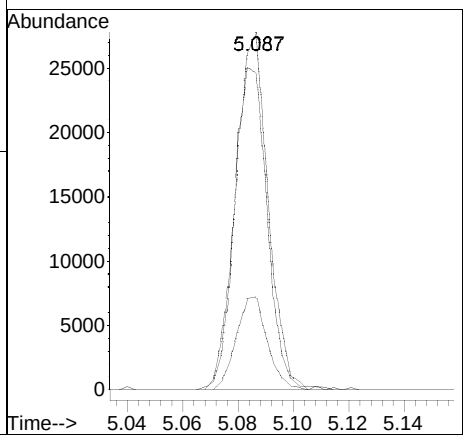


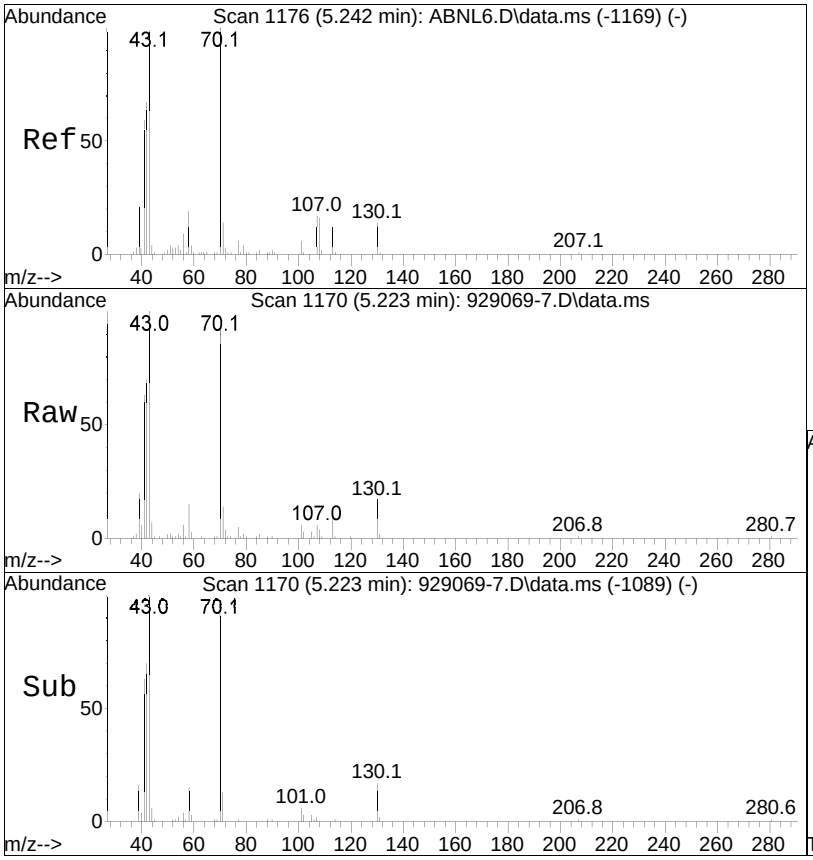


#15
2-Methylphenol
Concen: 3.78 ug/ml
RT: 5.087 min Scan# 1126
Delta R.T. 0.003 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:108 Resp: 22608

Ion	Ratio	Lower	Upper
108	100		
107	90.6	70.7	106.1
90	24.8	18.7	28.1

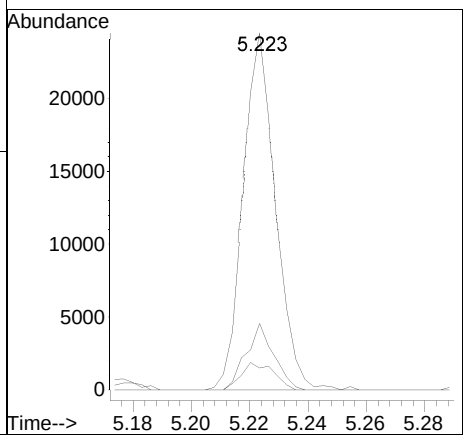


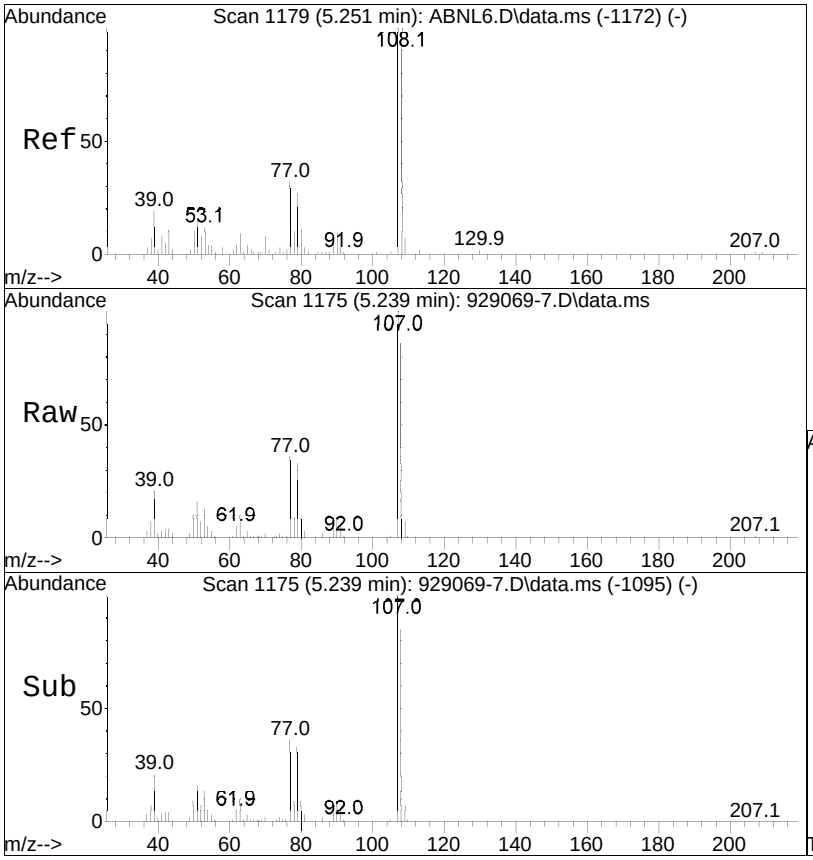


#17
n-Nitrosodi-n-propylamine
Concen: 3.51 ug/ml
RT: 5.223 min Scan# 1170
Delta R.T. 0.003 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion: 70 Resp: 18870

Ion	Ratio	Lower	Upper
70	100		
130	15.9	18.2	27.4#
101	7.6	7.8	11.8#

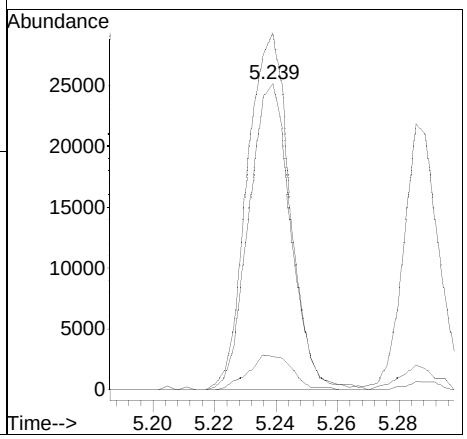


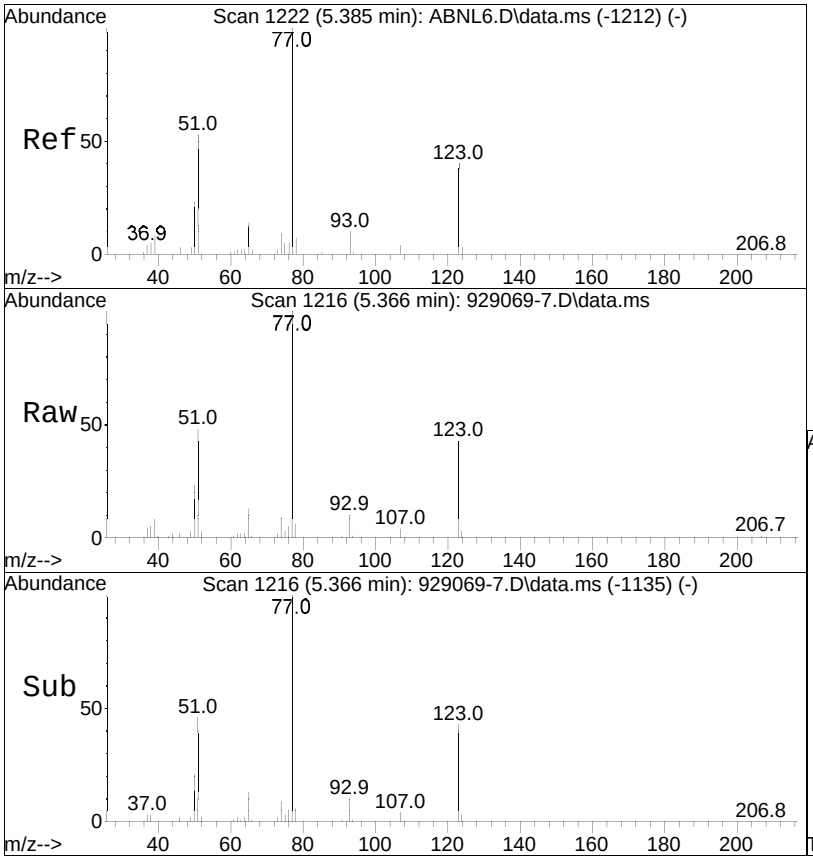


#18
3-Methylphenol/4-Methylphenol
Concen: 3.65 ug/ml
RT: 5.239 min Scan# 1175
Delta R.T. -0.000 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:108 Resp: 23809

Ion	Ratio	Lower	Upper
108	100		
107	118.8	88.6	132.8
90	11.9	8.8	13.2

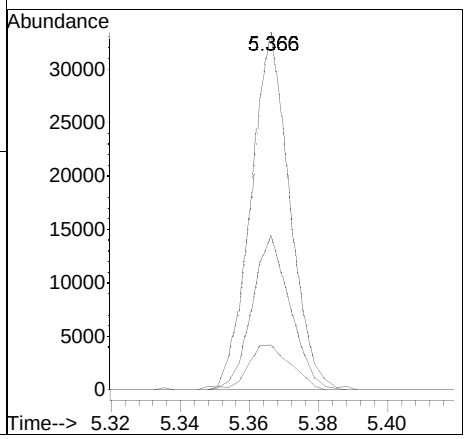


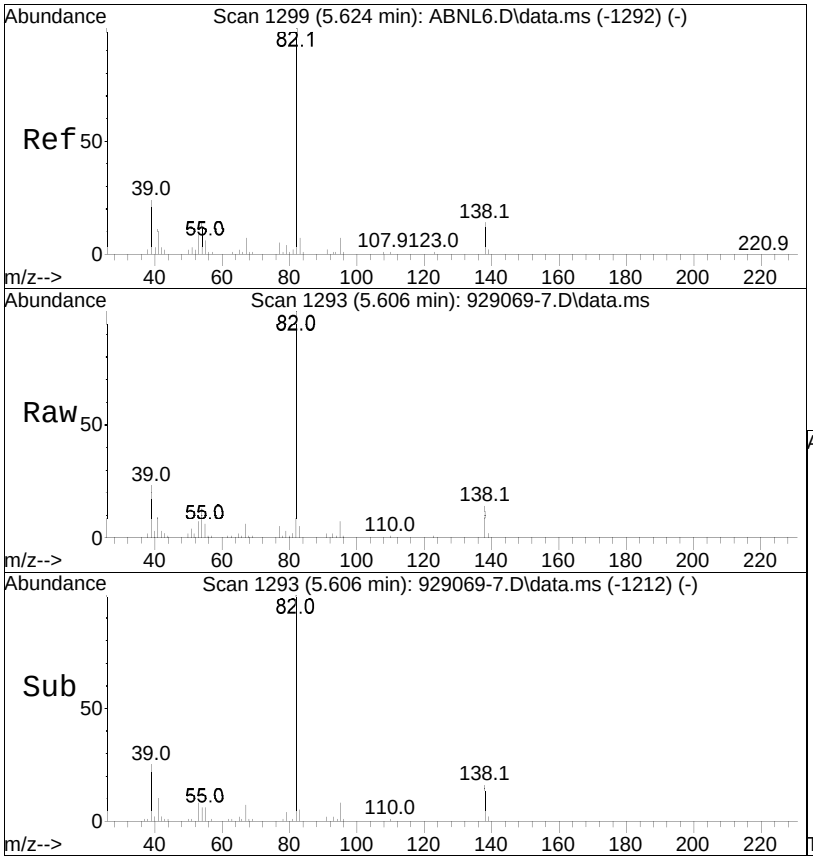


#20
Nitrobenzene
Concen: 3.75 ug/ml
RT: 5.366 min Scan# 1216
Delta R.T. 0.003 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion: 77 Resp: 25935

Ion	Ratio	Lower	Upper
77	100		
123	42.5	36.3	54.5
65	13.9	11.6	17.4

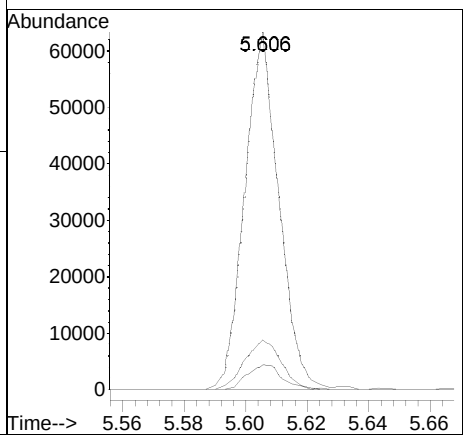


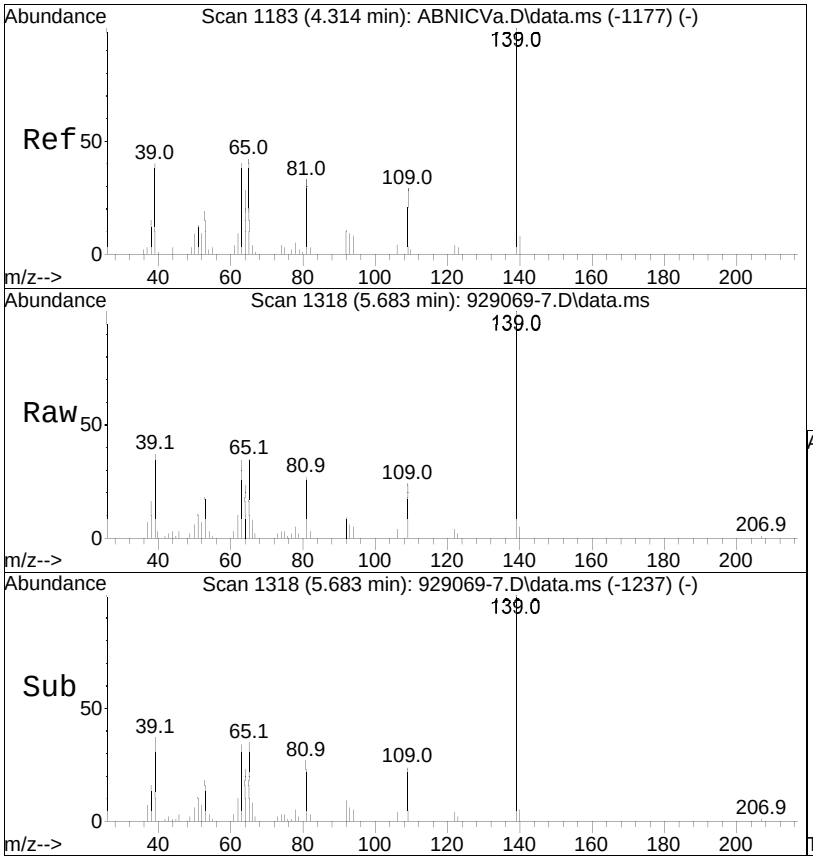


#21
Isophorone
Concen: 3.61 ug/ml
RT: 5.606 min Scan# 1293
Delta R.T. 0.003 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion: 82 Resp: 48391

Ion	Ratio	Lower	Upper
82	100		
138	14.9	14.7	22.1
95	7.0	5.2	7.8

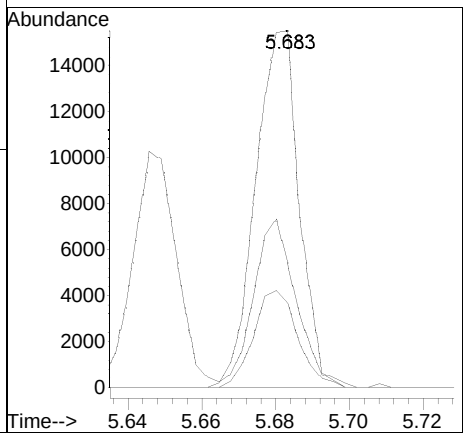


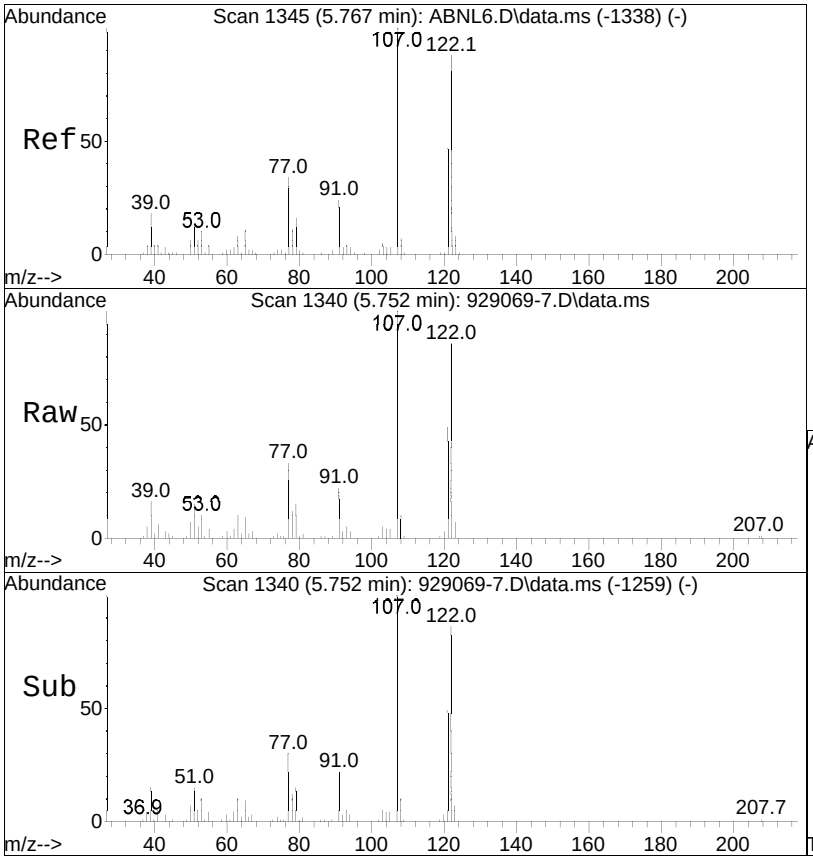


#22
2-Nitrophenol
Concen: 4.04 ug/ml
RT: 5.683 min Scan# 1318
Delta R.T. 0.003 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:139 Resp: 12779

Ion	Ratio	Lower	Upper
139	100		
109	27.5	19.4	29.0
65	45.6	46.1	69.1#

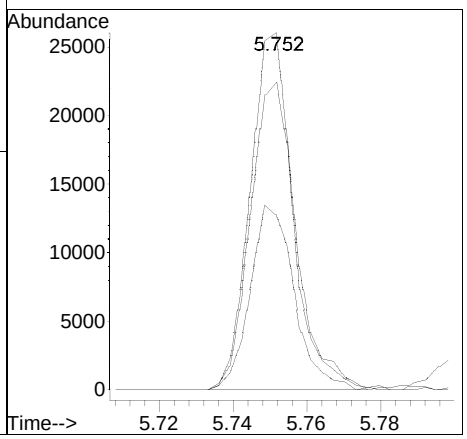


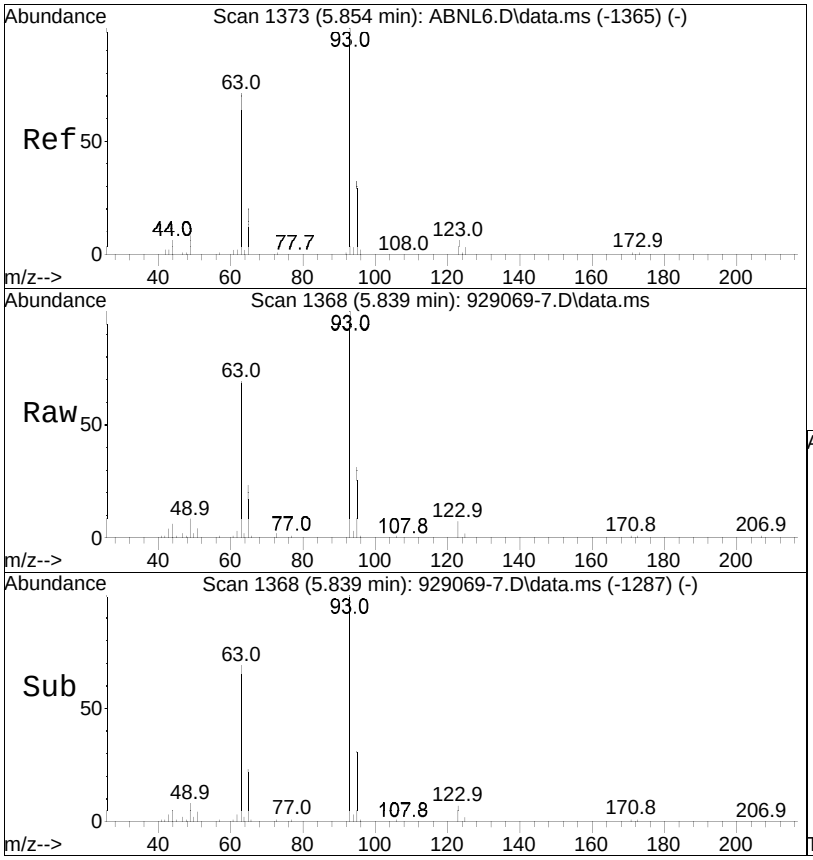


#23
2,4-Dimethylphenol
Concen: 3.45 ug/ml
RT: 5.752 min Scan# 1340
Delta R.T. 0.003 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:107 Resp: 21430

Ion	Ratio	Lower	Upper
107	100		
121	52.1	40.0	60.0
122	87.9	70.2	105.4

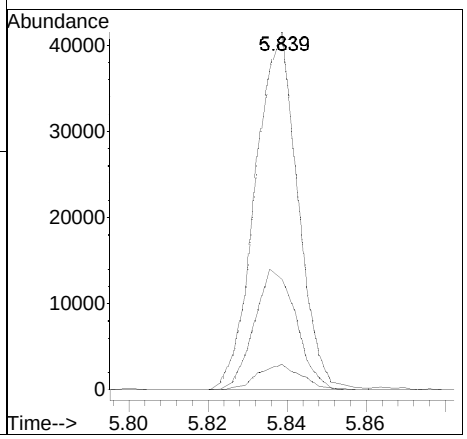


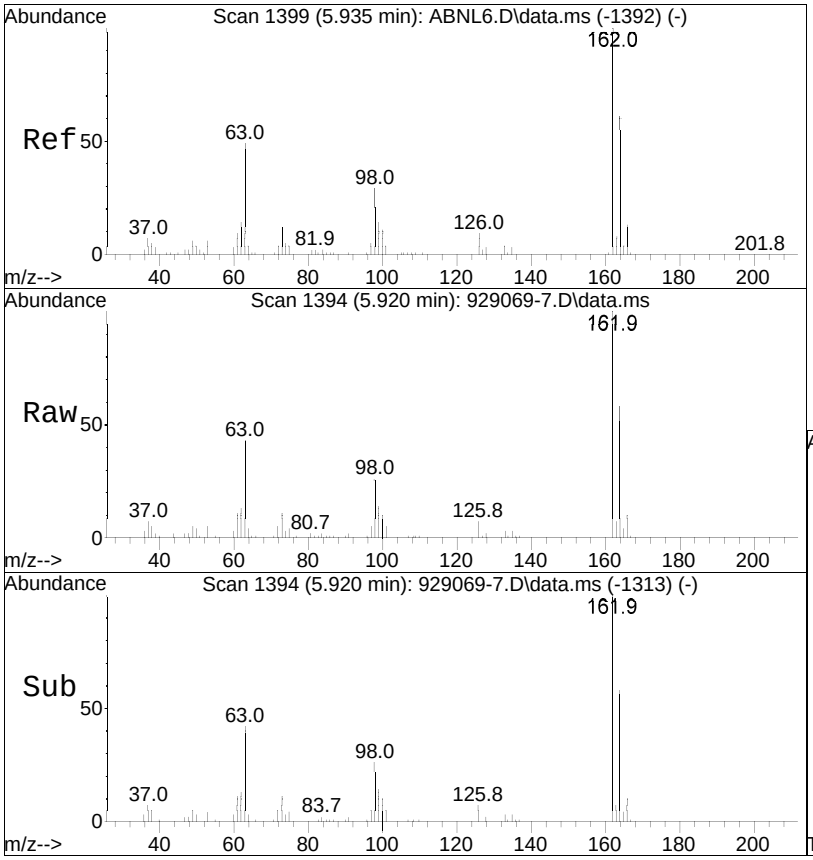


#24
Bis(2-chloroethoxy)methane
Concen: 3.84 ug/ml
RT: 5.839 min Scan# 1368
Delta R.T. 0.003 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion: 93 Resp: 30855

Ion	Ratio	Lower	Upper
93	100		
95	33.5	25.8	38.8
123	7.5	10.1	15.1#

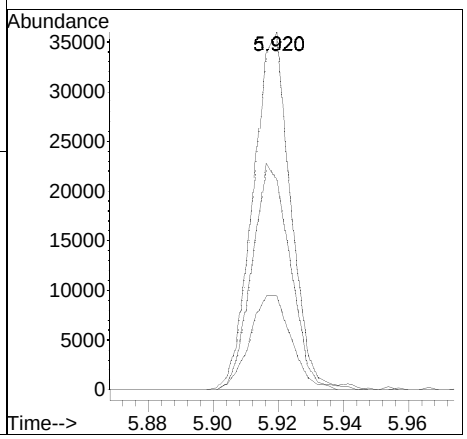


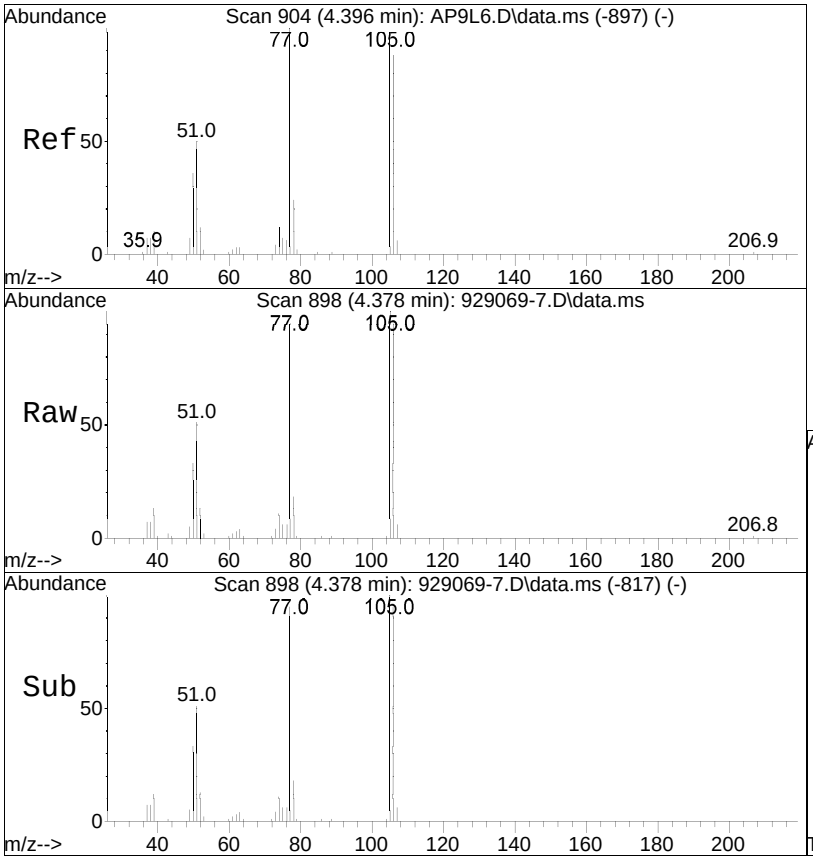


#25
2,4-Dichlorophenol
Concen: 3.98 ug/ml
RT: 5.920 min Scan# 1394
Delta R.T. 0.003 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:162 Resp: 28581

Ion	Ratio	Lower	Upper
162	100		
164	64.6	51.0	76.4
98	29.1	32.2	48.2#

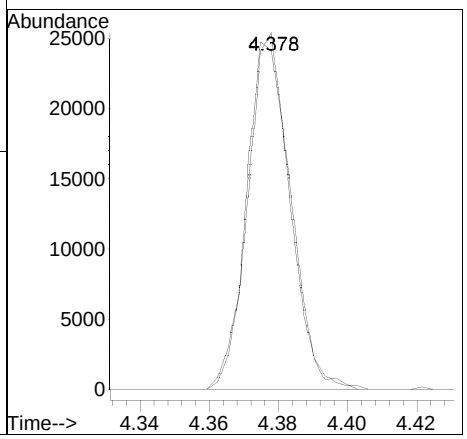


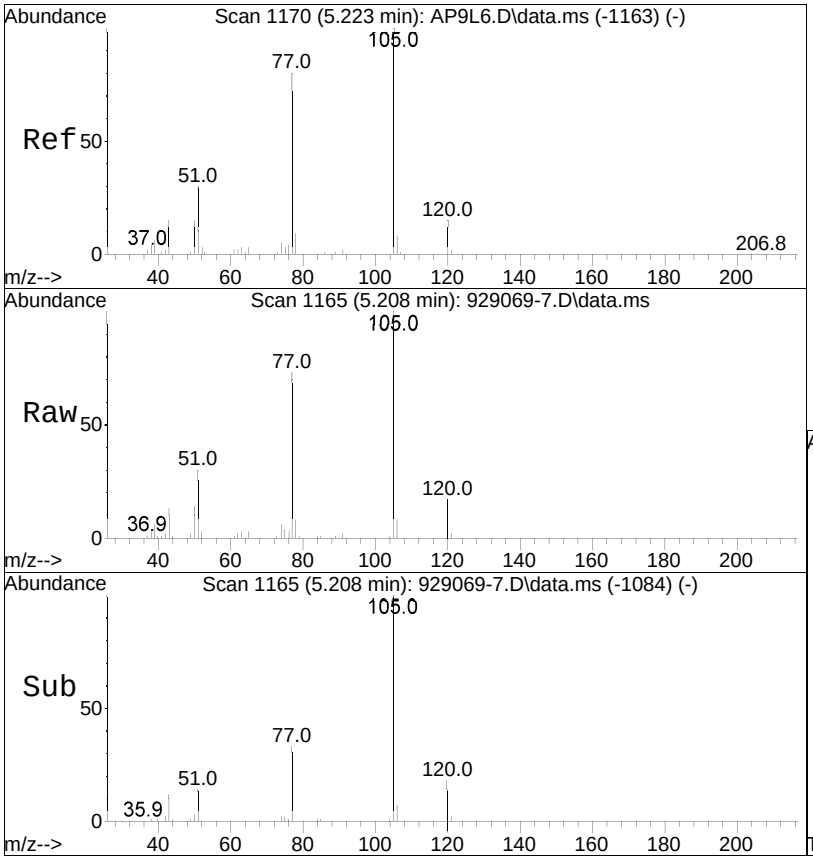


#28
Benzaldehyde
Concen: 3.53 ug/ml
RT: 4.378 min Scan# 898
Delta R.T. 0.003 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:105 Resp: 21643

Ion	Ratio	Lower	Upper
105	100		
77	100.4	82.2	123.4

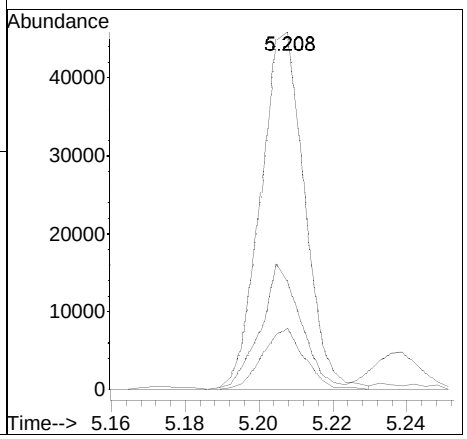


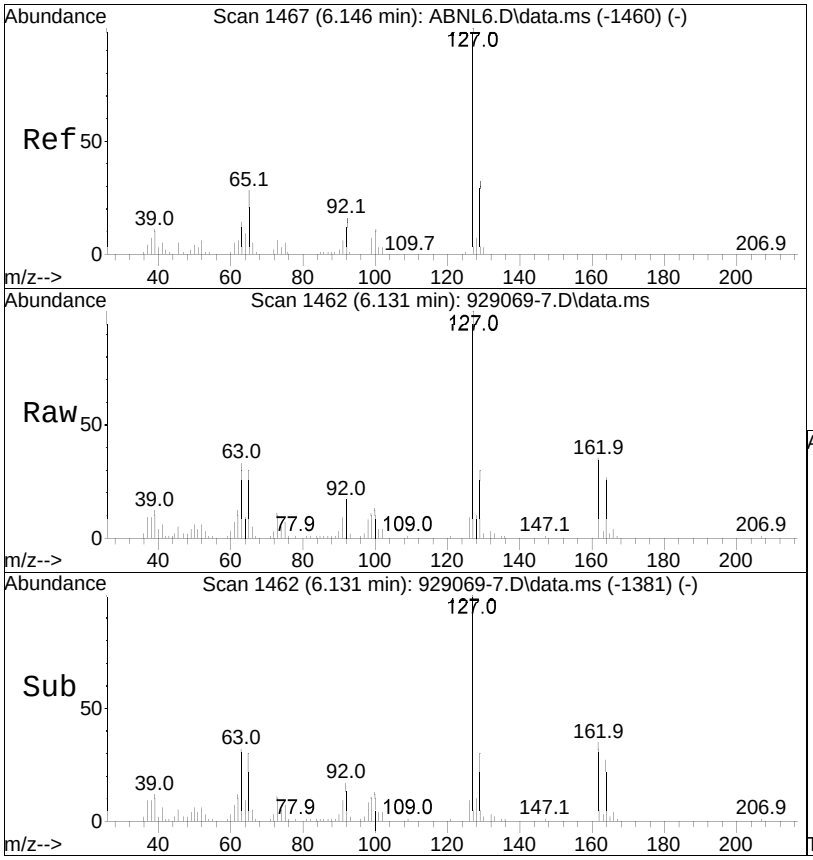


#29
Acetophenone
Concen: 3.70 ug/ml
RT: 5.208 min Scan# 1165
Delta R.T. 0.003 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:105 Resp: 37669

Ion	Ratio	Lower	Upper
105	100		
120	16.4	20.5	30.7#
51	32.7	34.9	52.3#

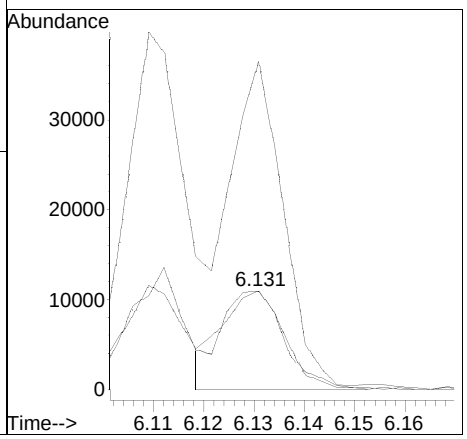


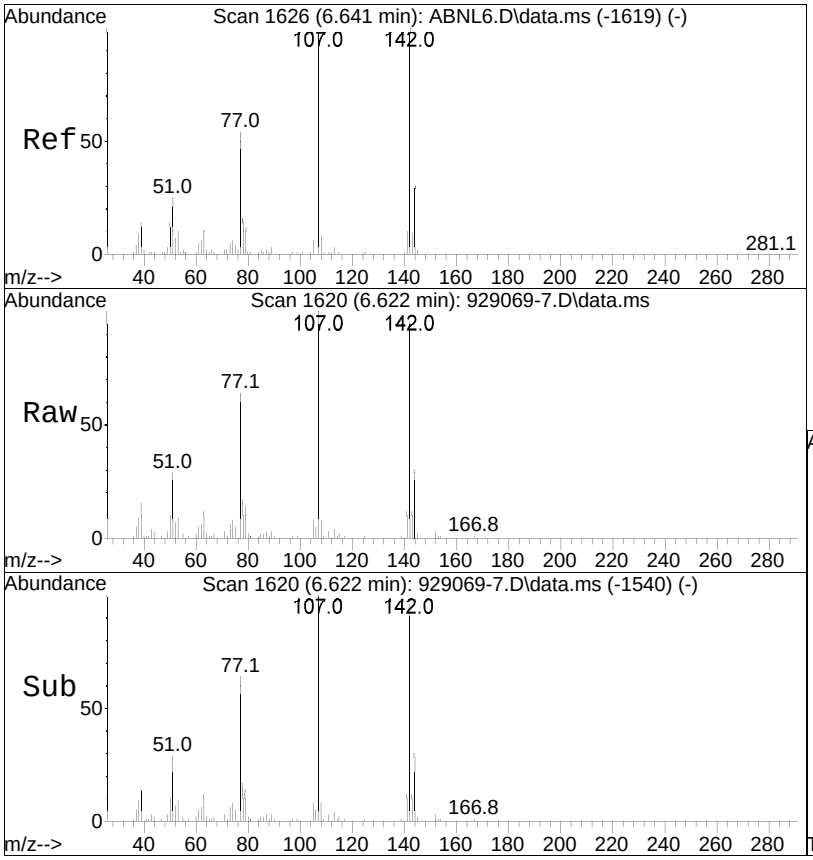


#37
4-Chloroaniline
Concen: 3.78 ug/ml
RT: 6.131 min Scan# 1462
Delta R.T. 0.003 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion: 65 Resp: 9537

Ion	Ratio	Lower	Upper
65	100		
127	267.1	237.6	356.4
129	92.1	76.3	114.5

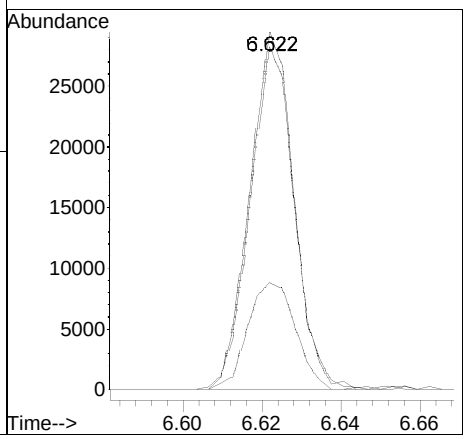


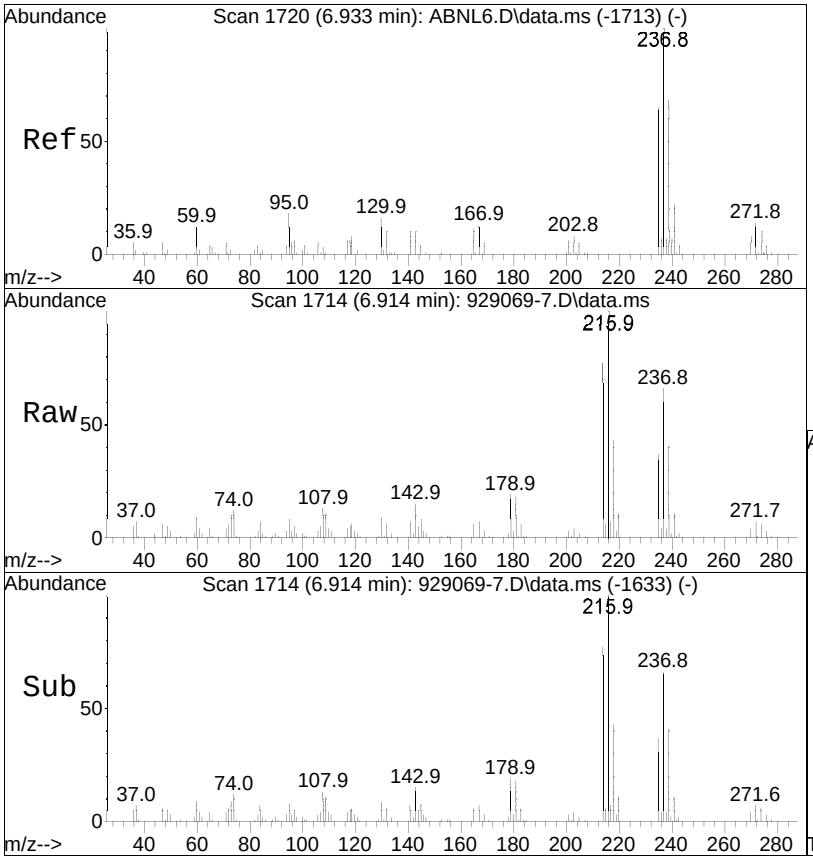


#39
p-Chloro-m-cresol
Concen: 4.07 ug/ml
RT: 6.622 min Scan# 1620
Delta R.T. -0.000 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:107 Resp: 22705

Ion	Ratio	Lower	Upper
107	100		
144	32.4	20.9	31.3#
142	95.5	66.1	99.1

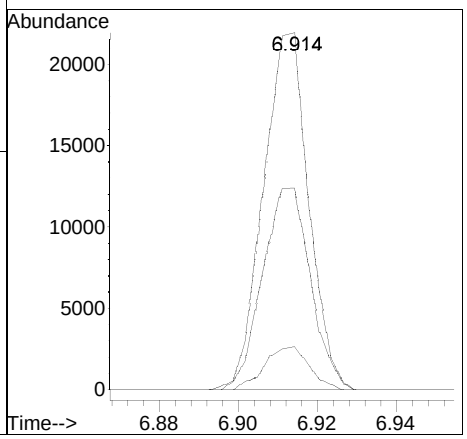


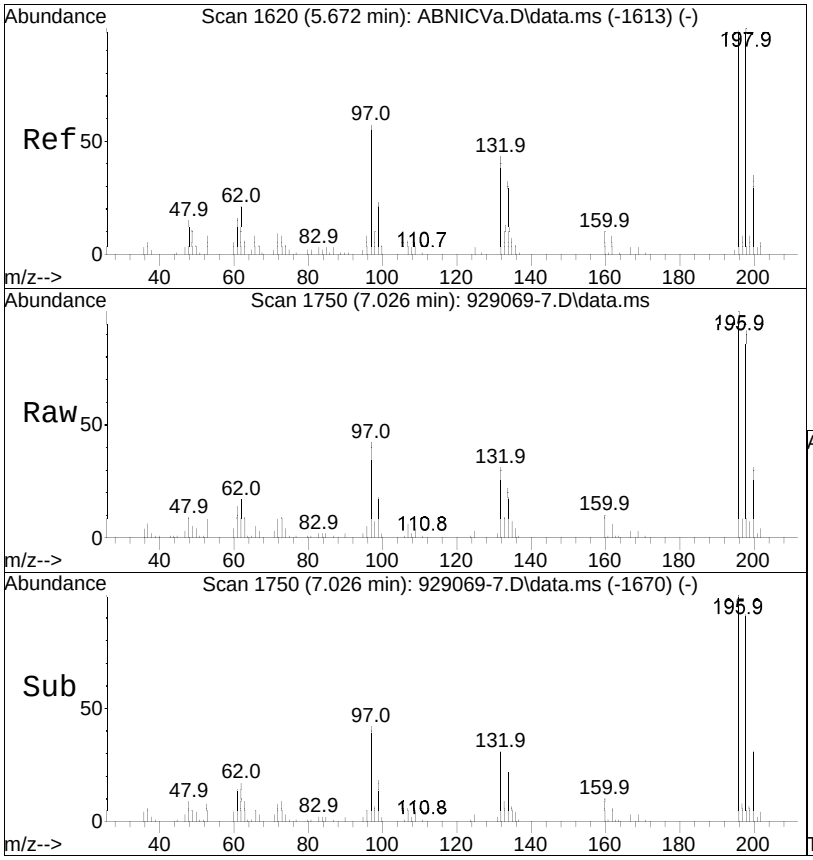


#42
Hexachlorocyclopentadiene
Concen: 3.37 ug/ml
RT: 6.914 min Scan# 1714
Delta R.T. 0.003 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:237 Resp: 17387

Ion	Ratio	Lower	Upper
237	100		
235	59.9	49.7	74.5
272	12.1	9.8	14.6

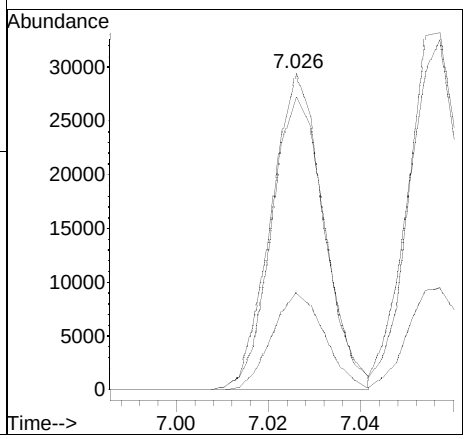


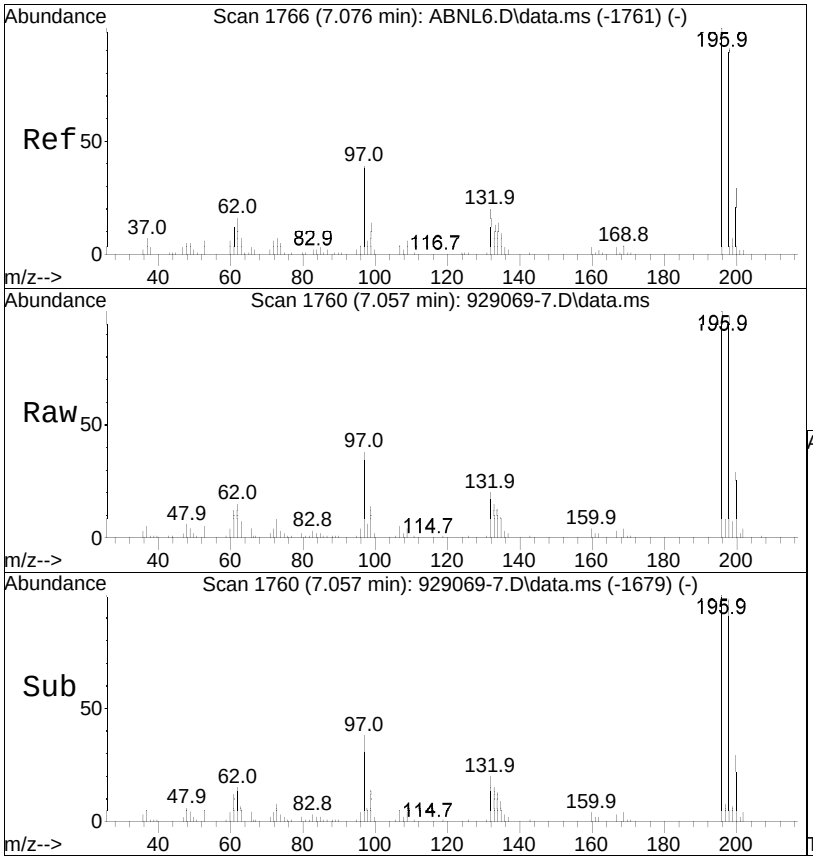


#43
2,4,6-Trichlorophenol
Concen: 4.07 ug/ml
RT: 7.026 min Scan# 1750
Delta R.T. -0.000 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:196 Resp: 23259

Ion	Ratio	Lower	Upper
196	100		
198	94.4	77.5	116.3
200	30.8	23.8	35.6

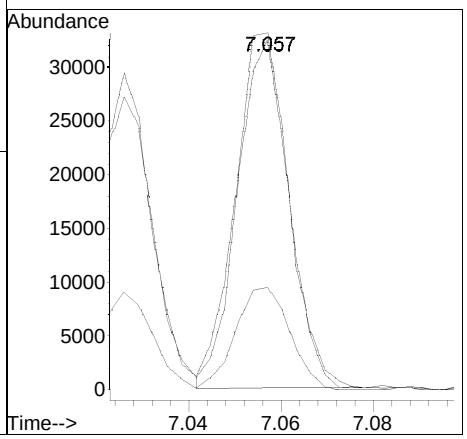


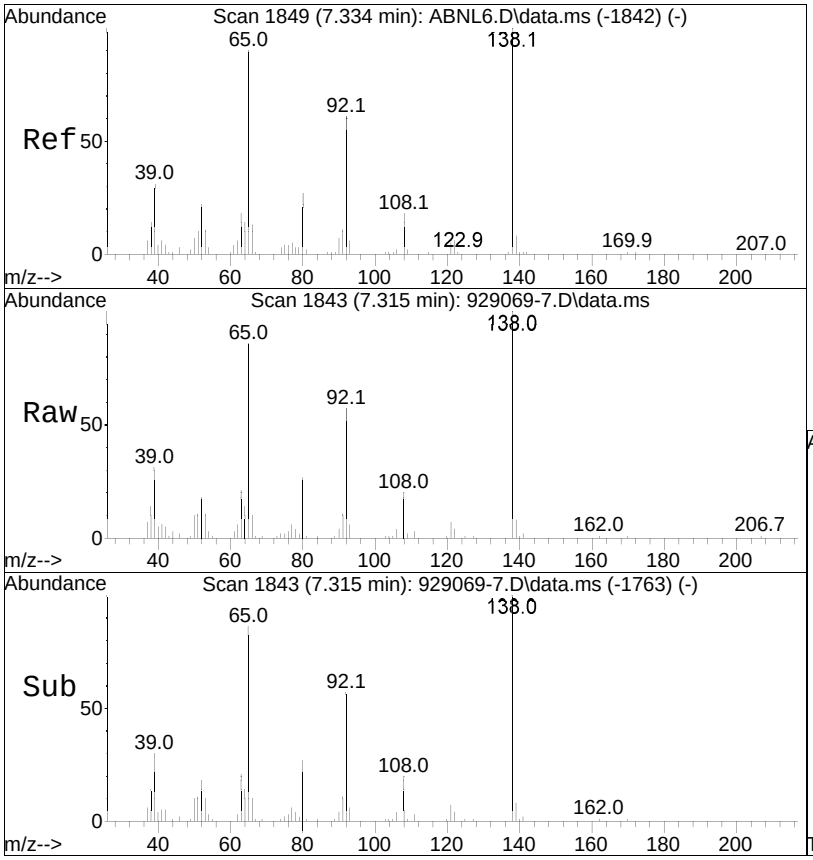


#44
2,4,5-Trichlorophenol
Concen: 4.28 ug/ml
RT: 7.057 min Scan# 1760
Delta R.T. 0.003 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:196 Resp: 26581

Ion	Ratio	Lower	Upper
196	100		
200	29.3	25.4	38.0
198	95.7	78.0	117.0

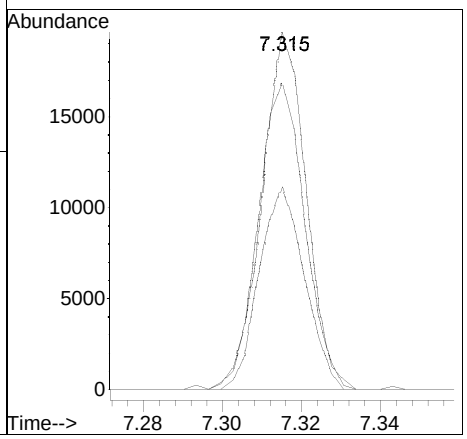


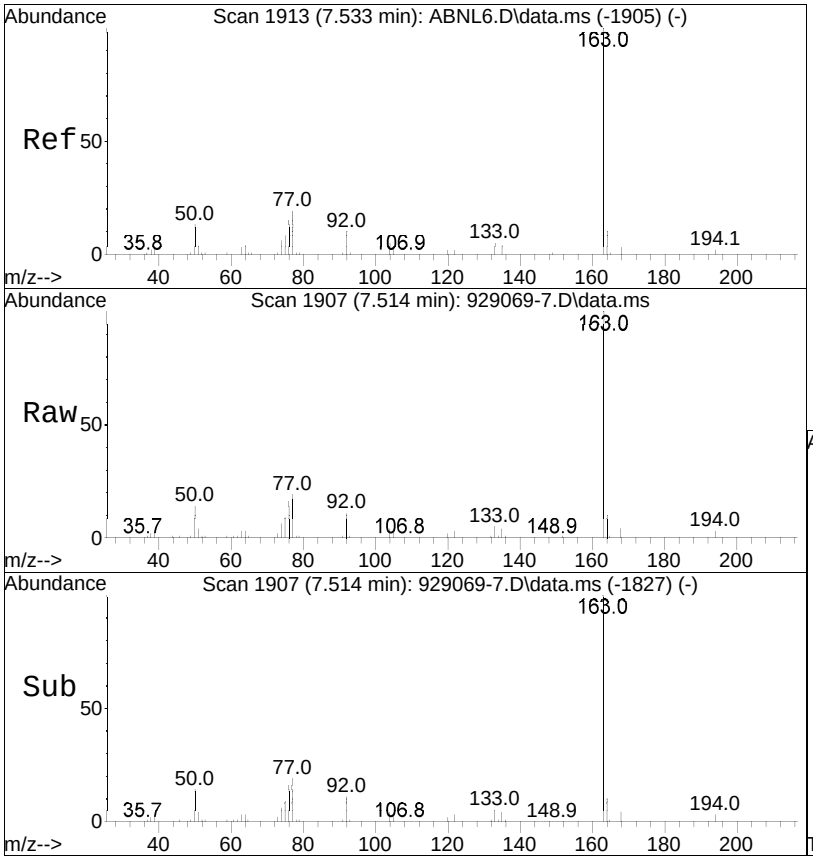


#47
2-Nitroaniline
Concen: 4.03 ug/ml
RT: 7.315 min Scan# 1843
Delta R.T. -0.000 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:138 Resp: 15393

Ion	Ratio	Lower	Upper
138	100		
92	57.3	53.5	80.3
65	88.1	86.3	129.5

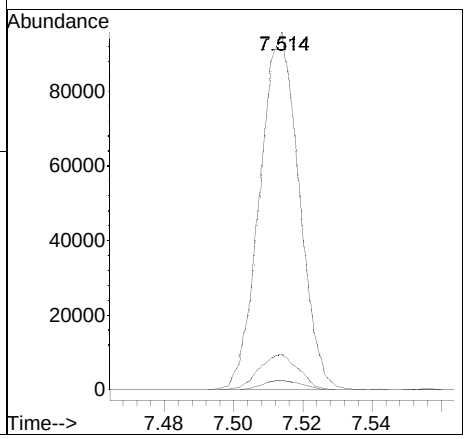


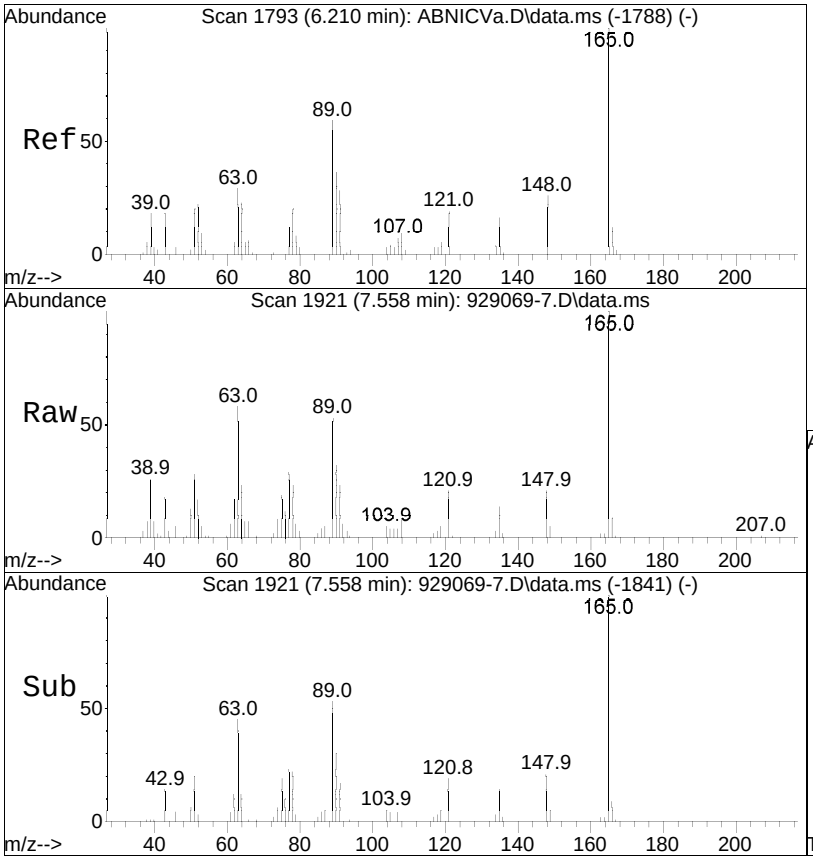


#50
Dimethyl phthalate
Concen: 3.91 ug/ml
RT: 7.514 min Scan# 1907
Delta R.T. -0.000 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:163 Resp: 74938

Ion	Ratio	Lower	Upper
163	100		
194	2.7	3.5	5.3#
164	10.1	7.9	11.9

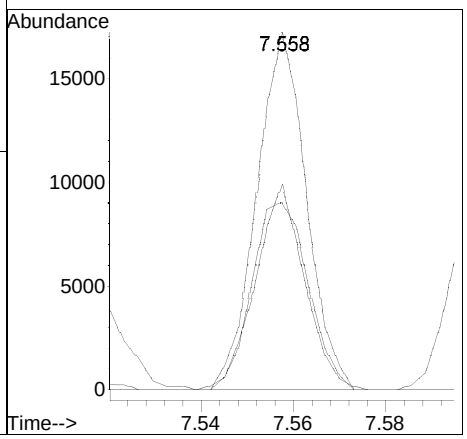


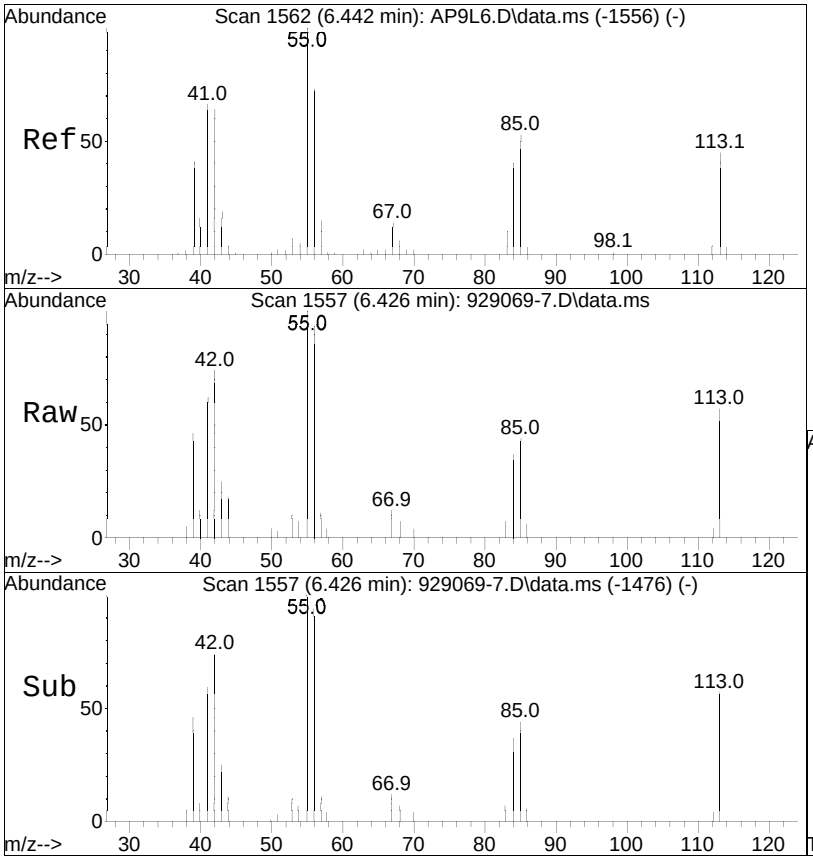


#52
2,6-Dinitrotoluene
Concen: 3.80 ug/ml
RT: 7.558 min Scan# 1921
Delta R.T. -0.000 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:165 Resp: 12811

Ion	Ratio	Lower	Upper
165	100		
89	59.7	54.2	81.2
63	56.9	64.2	96.2#

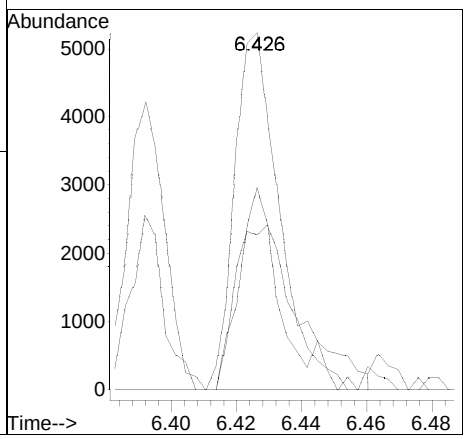


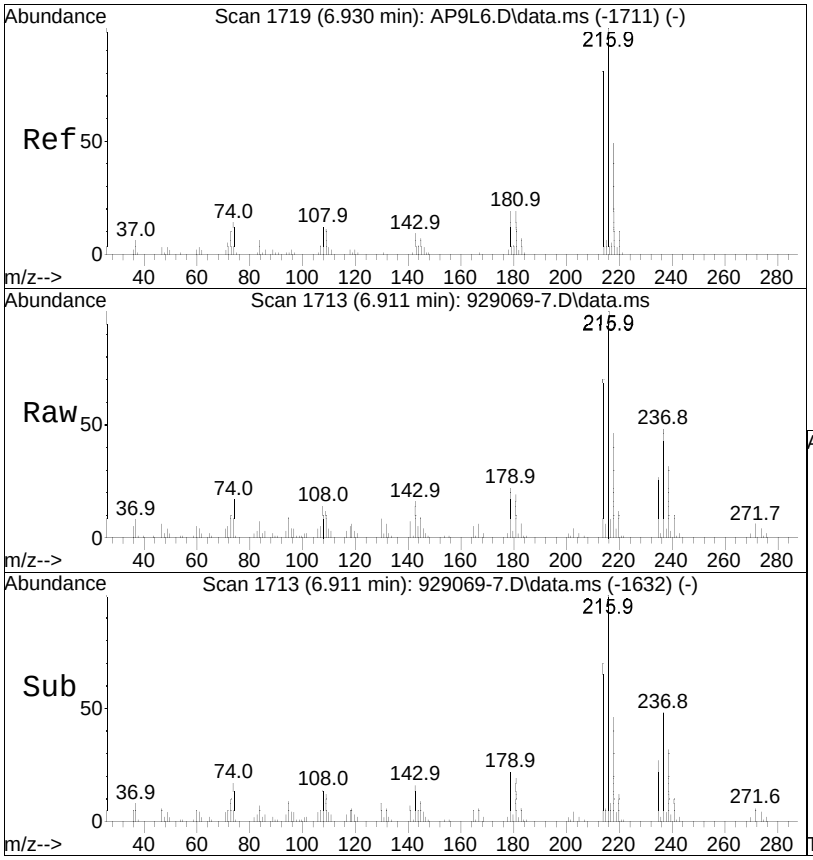


#59
Caprolactam
Concen: 1.96 ug/ml
RT: 6.426 min Scan# 1557
Delta R.T. 0.003 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion: 55 Resp: 5410

Ion	Ratio	Lower	Upper
55	100		
85	53.2	19.8	29.6#
113	48.1	29.6	44.4#

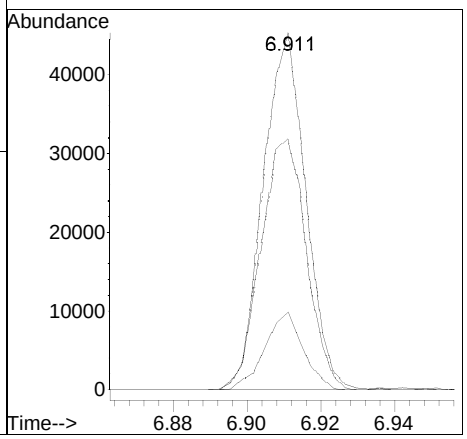


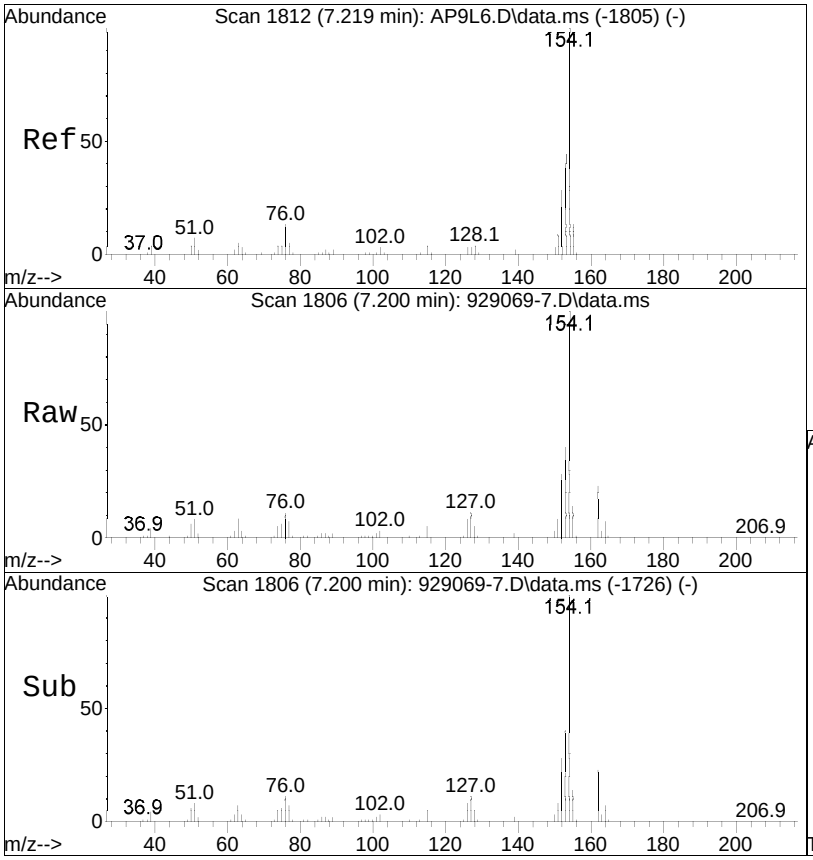


#60
1,2,4,5-Tetrachlorobenzene
Concen: 3.77 ug/ml
RT: 6.911 min Scan# 1713
Delta R.T. 0.003 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:216 Resp: 36202

Ion	Ratio	Lower	Upper
216	100		
214	74.9	63.7	95.5
179	19.8	19.0	28.6

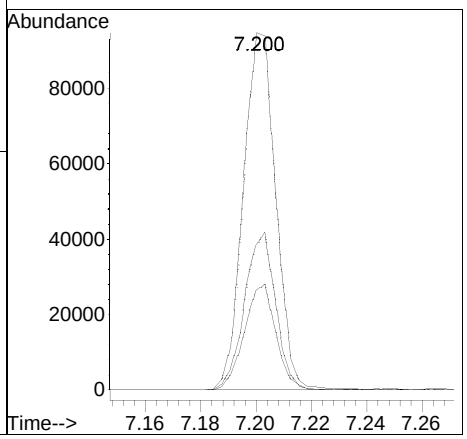


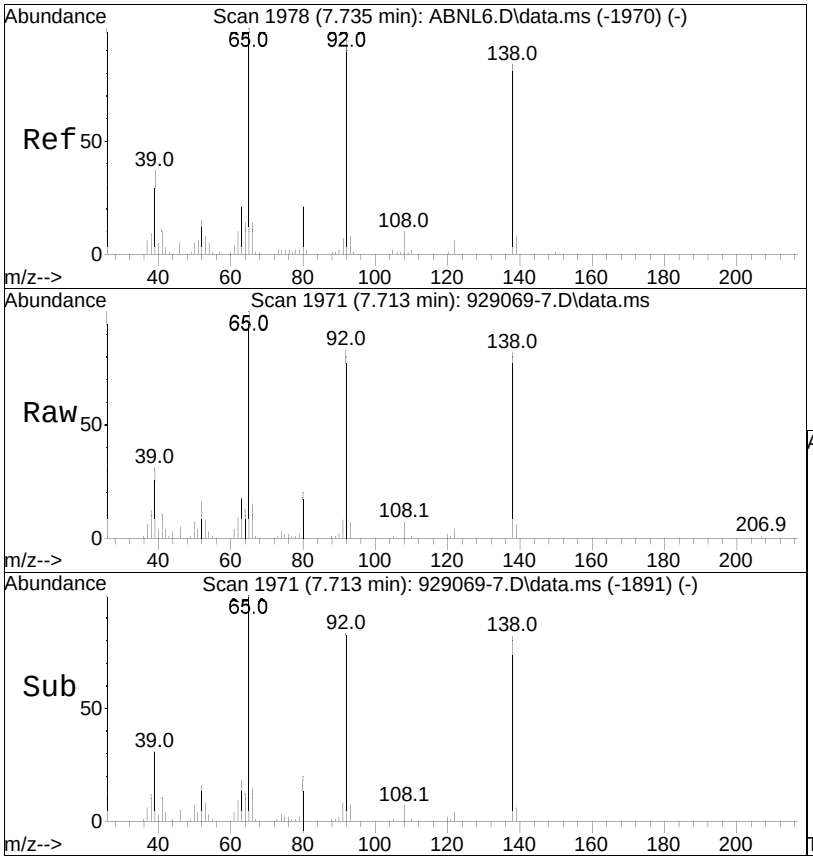


#61
Biphenyl
Concen: 3.85 ug/ml
RT: 7.200 min Scan# 1806
Delta R.T. 0.000 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:154 Resp: 76640

Ion	Ratio	Lower	Upper
154	100		
153	42.3	32.3	48.5
152	28.9	22.5	33.7

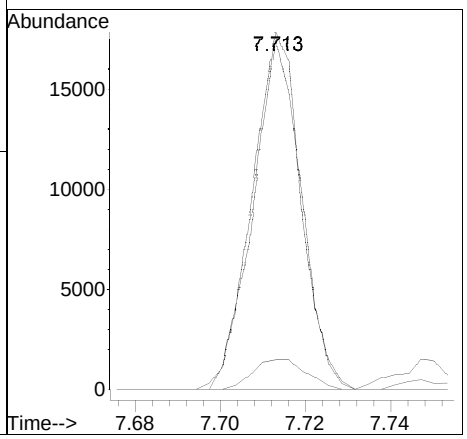


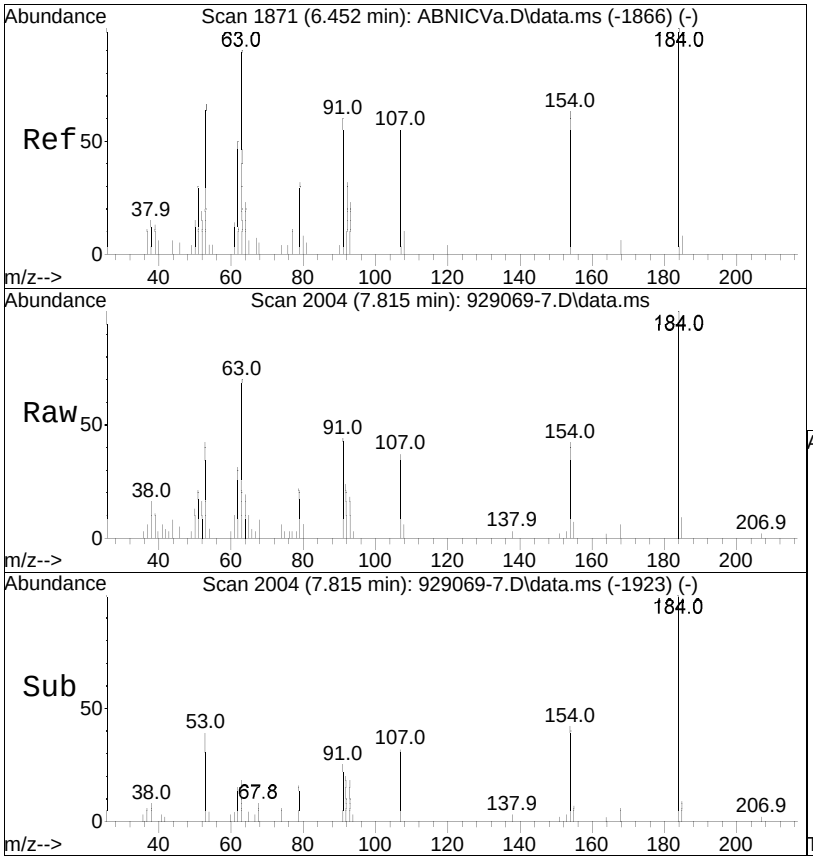


#63
3-Nitroaniline
Concen: 4.27 ug/ml
RT: 7.713 min Scan# 1971
Delta R.T. -0.000 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:138 Resp: 13617

Ion	Ratio	Lower	Upper
138	100		
92	104.4	93.4	140.2
108	9.5	9.5	14.3

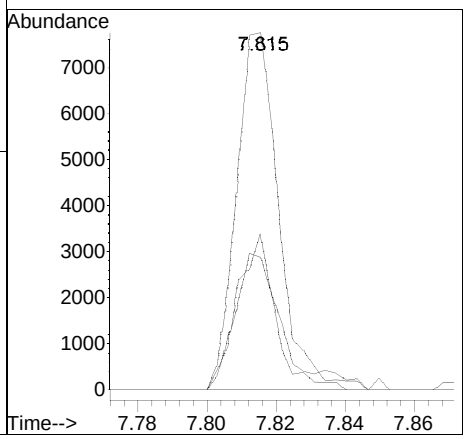


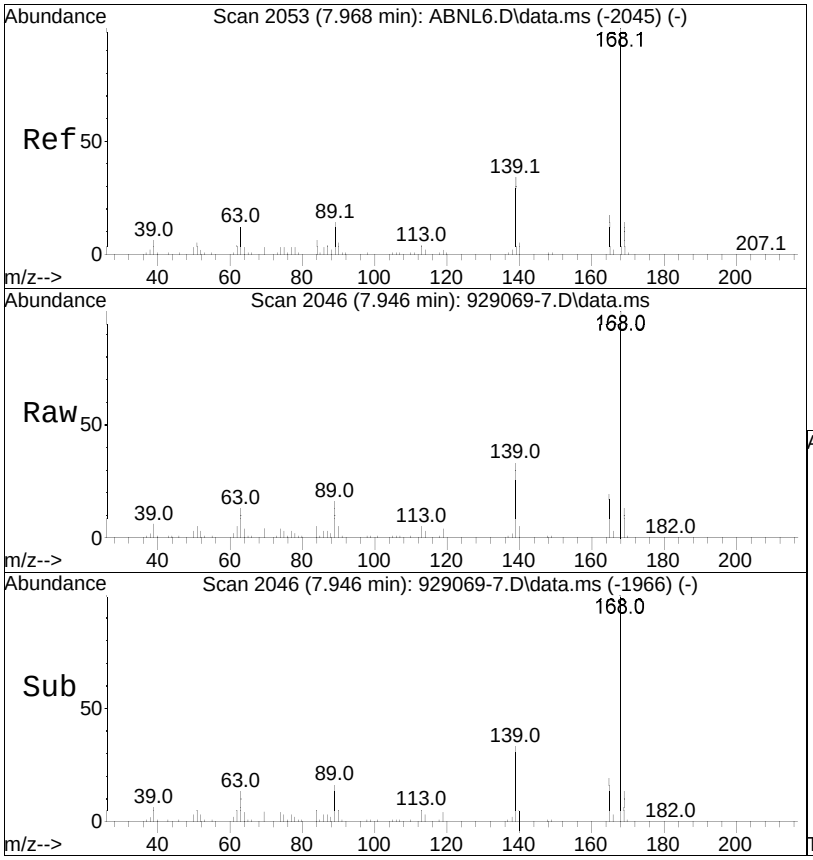


#65
2,4-Dinitrophenol
Concen: 3.85 ug/ml
RT: 7.815 min Scan# 2004
Delta R.T. 0.003 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:184 Resp: 6557

Ion	Ratio	Lower	Upper
184	100		
107	38.1	37.7	56.5
91	45.1	46.3	69.5#

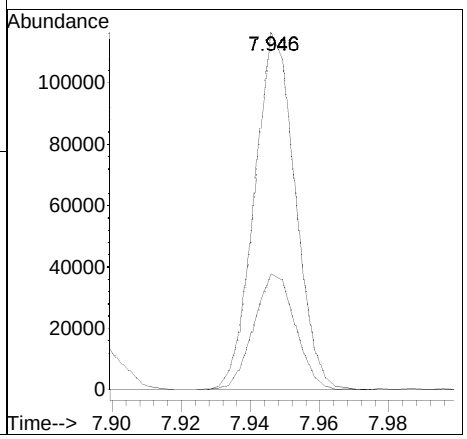


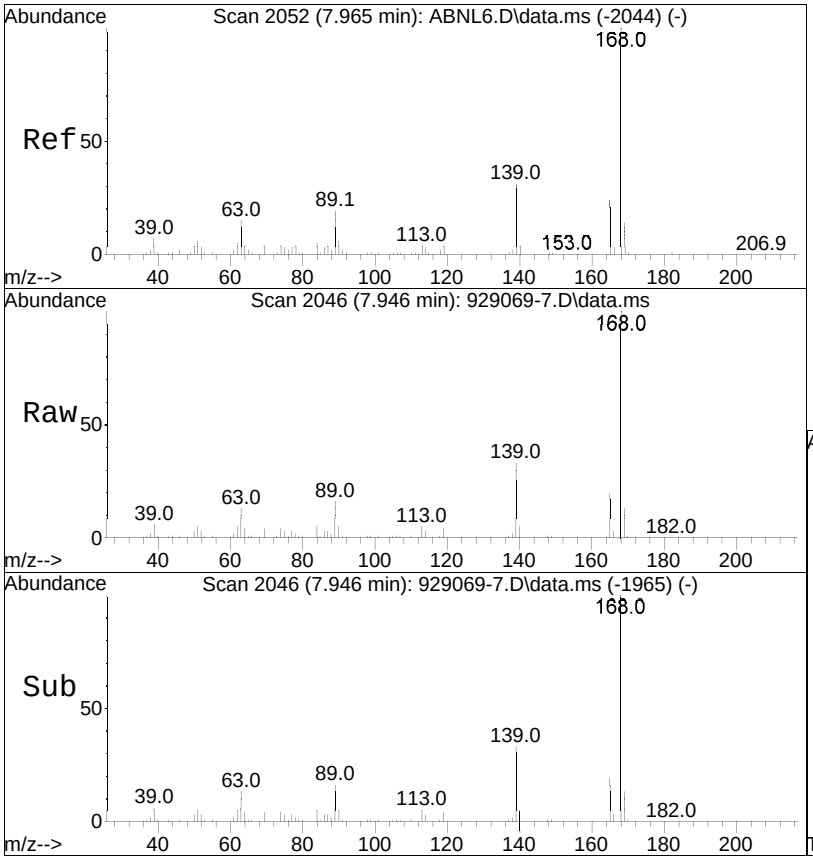


#66
Dibenzofuran
Concen: 4.21 ug/ml
RT: 7.946 min Scan# 2046
Delta R.T. -0.000 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:168 Resp: 94708

Ion	Ratio	Lower	Upper
168	100		
139	33.3	31.4	47.2

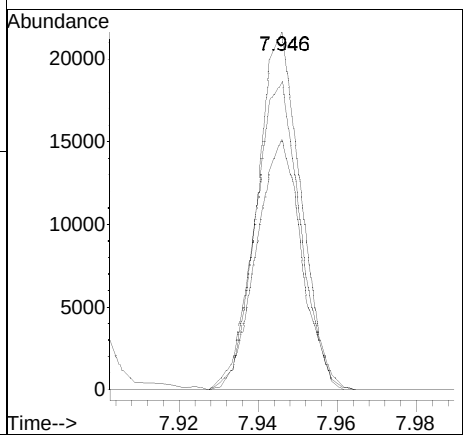


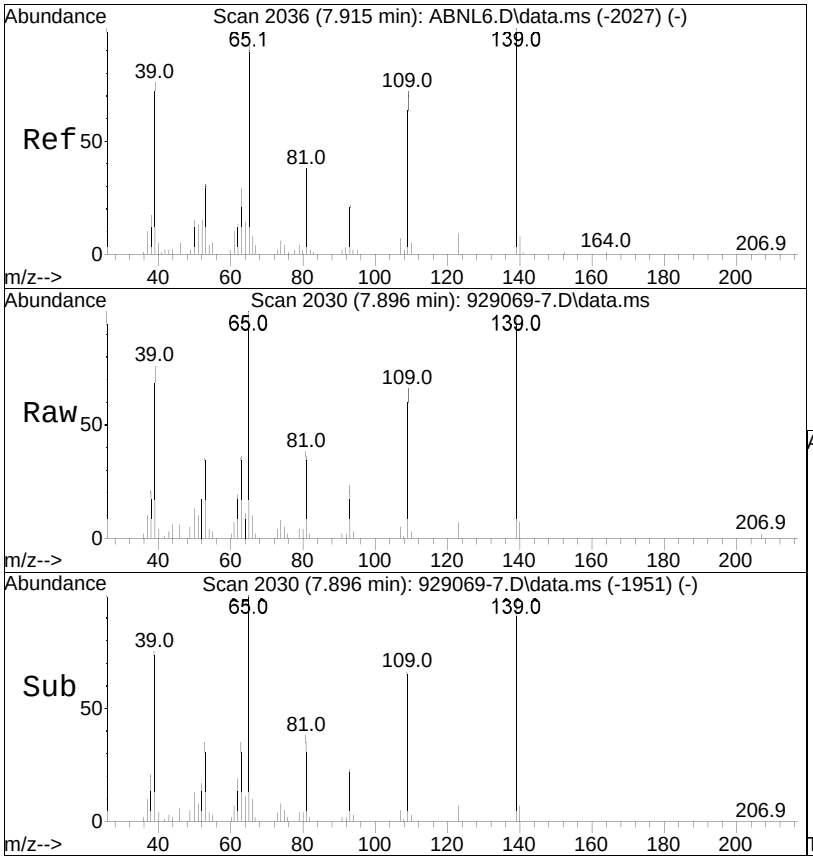


#67
2,4-Dinitrotoluene
Concen: 4.12 ug/ml
RT: 7.946 min Scan# 2046
Delta R.T. 0.003 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:165 Resp: 16632

Ion	Ratio	Lower	Upper
165	100		
89	86.5	72.0	108.0
63	71.9	52.7	79.1

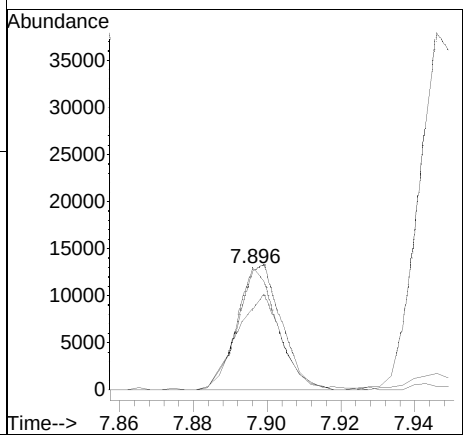


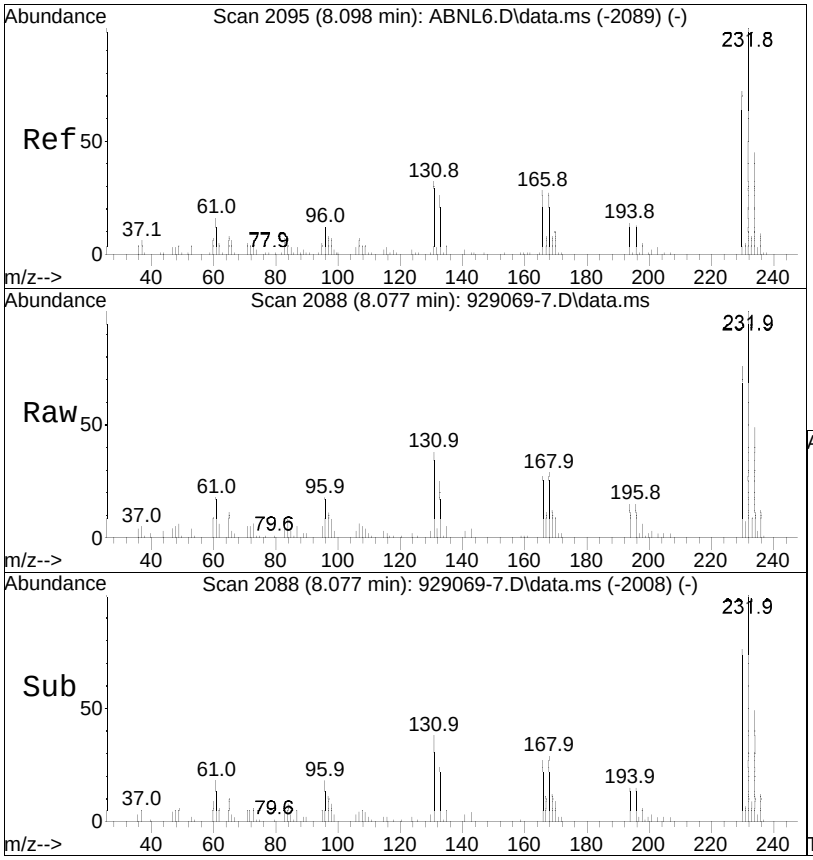


#68
4-Nitrophenol
Concen: 3.70 ug/ml
RT: 7.896 min Scan# 2030
Delta R.T. -0.003 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion: 65 Resp: 10214

Ion	Ratio	Lower	Upper
65	100		
109	83.7	47.4	71.2#
139	106.2	76.6	115.0

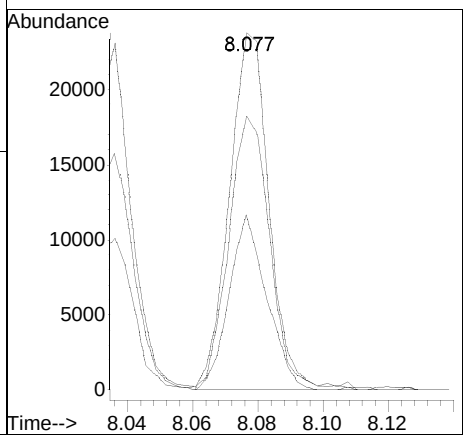


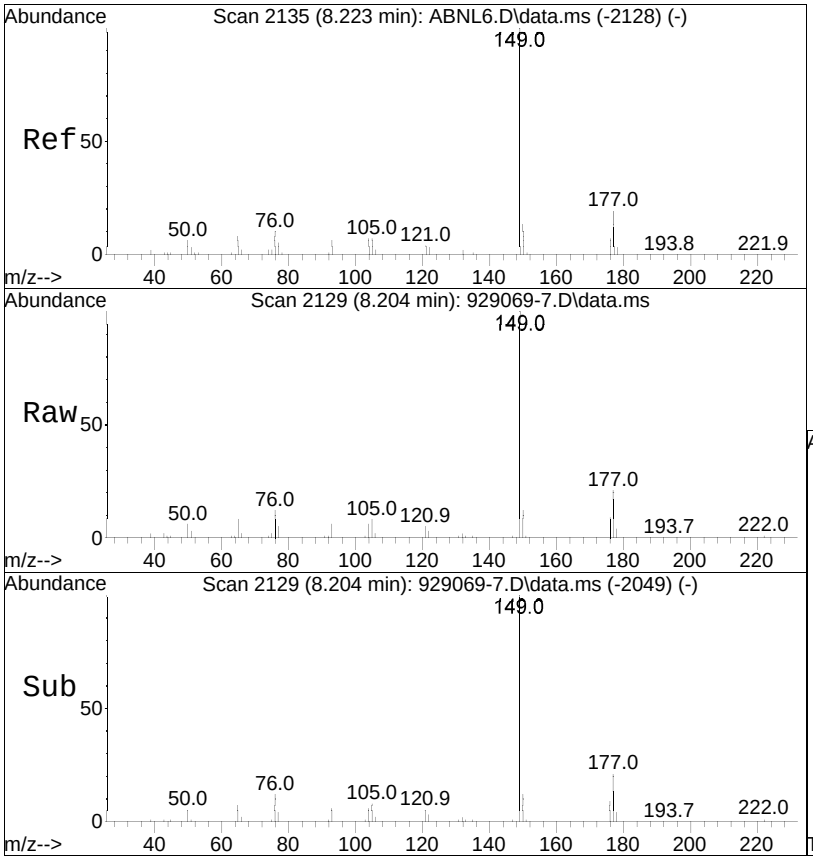


#70
2,3,4,6-Tetrachlorophenol
Concen: 4.23 ug/ml
RT: 8.077 min Scan# 2088
Delta R.T. -0.000 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:232 Resp: 20285

Ion	Ratio	Lower	Upper
232	100		
230	79.7	61.8	92.8
234	46.3	36.2	54.2

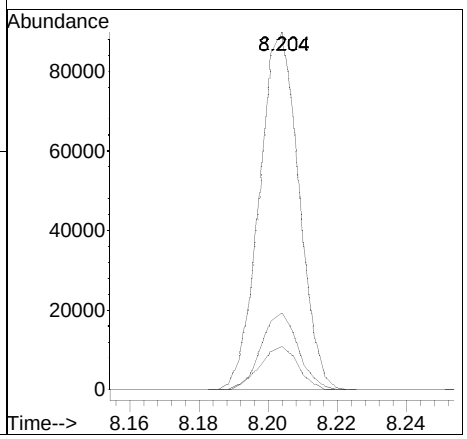


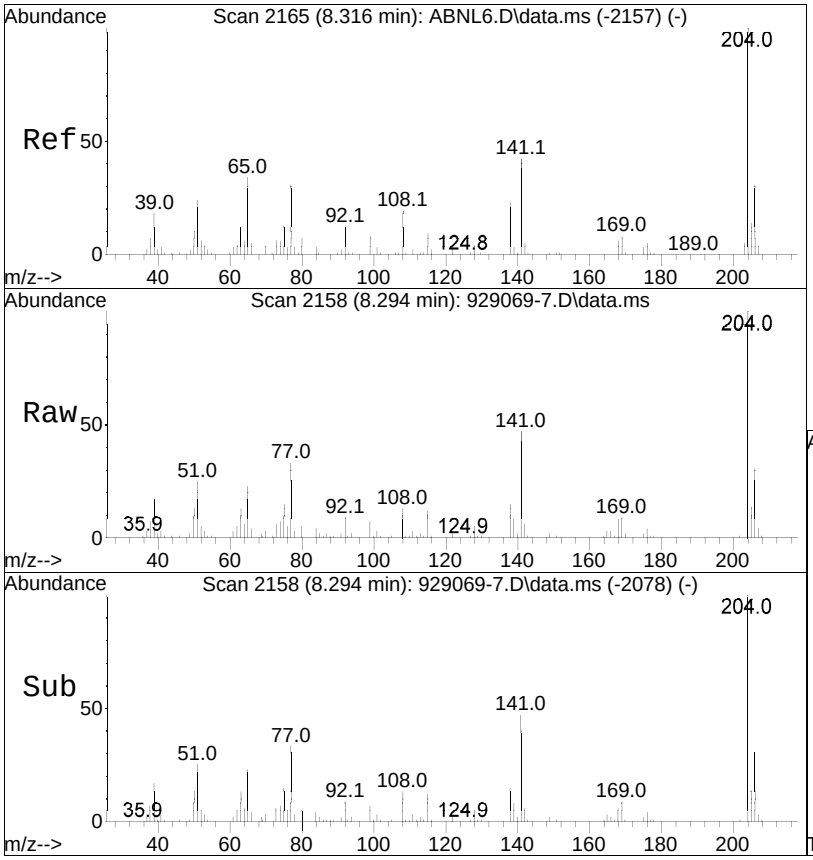


#71
Diethyl phthalate
Concen: 3.84 ug/ml
RT: 8.204 min Scan# 2129
Delta R.T. -0.000 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:149 Resp: 70611

Ion	Ratio	Lower	Upper
149	100		
177	20.5	16.1	24.1
150	11.9	9.4	14.2

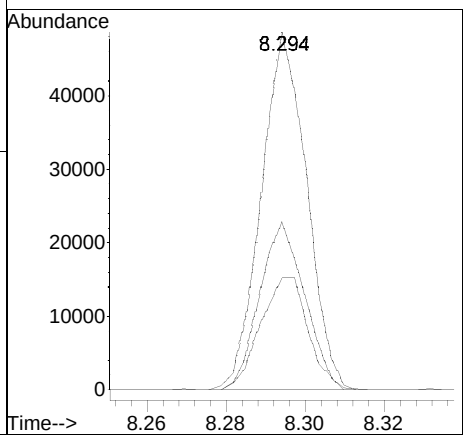


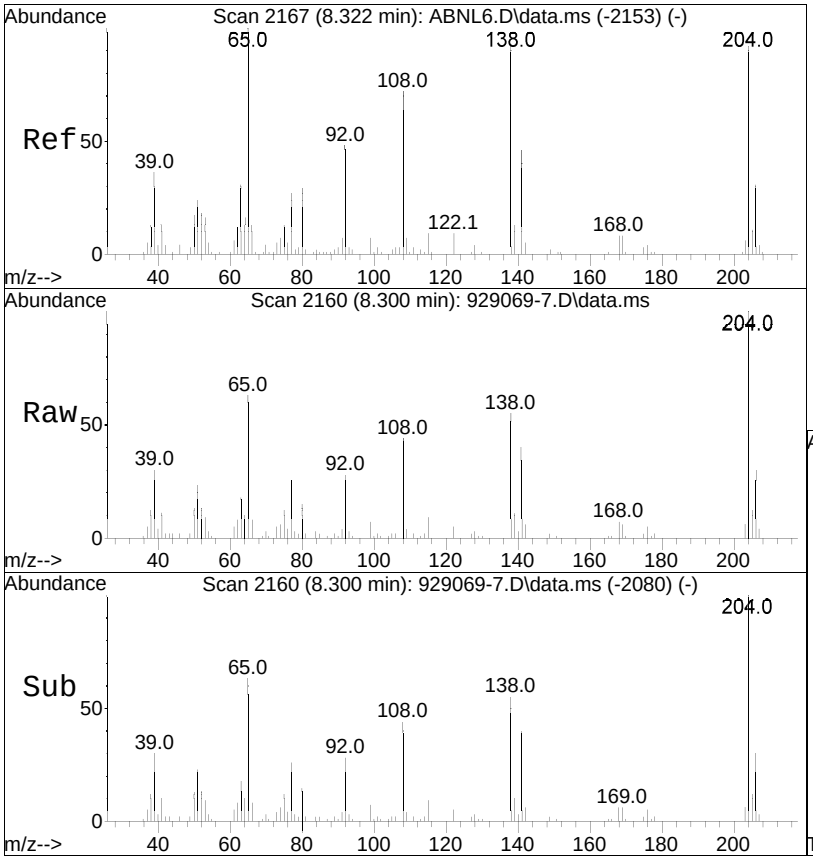


#73
4-Chlorophenyl phenyl ether
Concen: 4.06 ug/ml
RT: 8.294 min Scan# 2158
Delta R.T. -0.000 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:204 Resp: 38488

Ion	Ratio	Lower	Upper
204	100		
206	33.0	25.8	38.6
141	46.7	53.6	80.4#

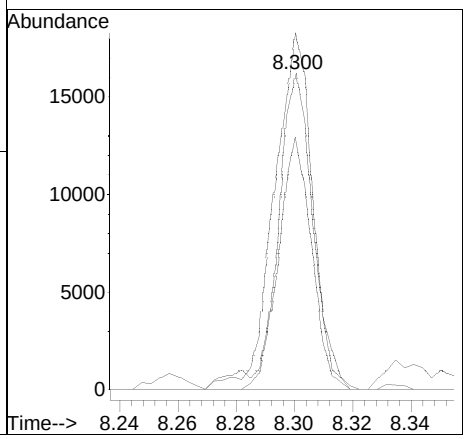


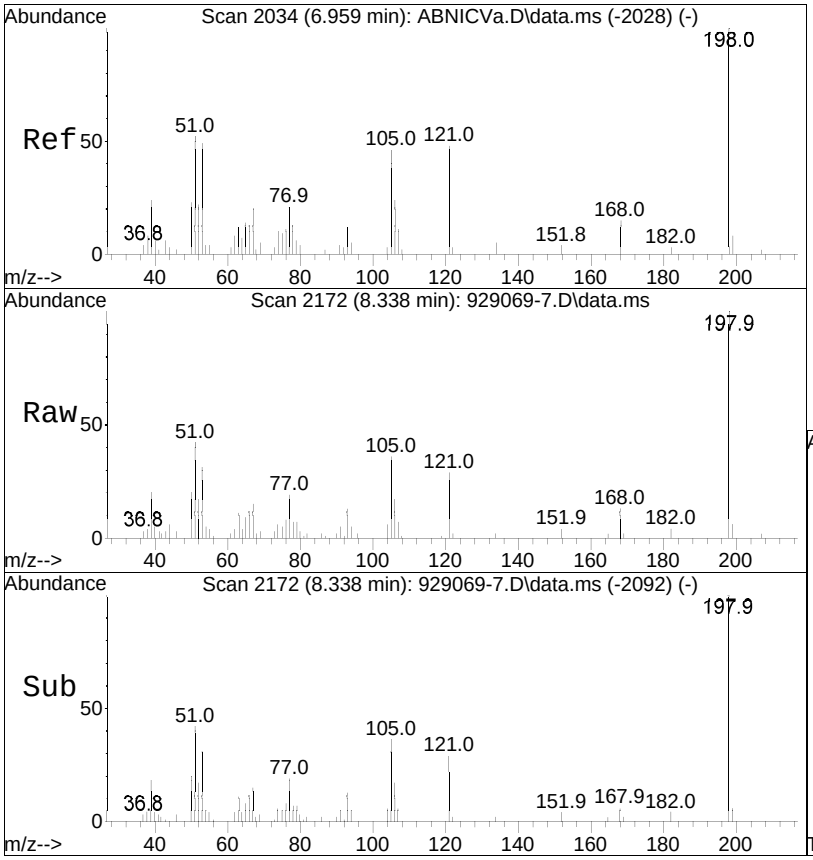


#74
4-Nitroaniline
Concen: 4.06 ug/ml
RT: 8.300 min Scan# 2160
Delta R.T. -0.000 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:138 Resp: 13779

Ion	Ratio	Lower	Upper
138	100		
108	73.5	52.1	78.1
65	120.0	115.0	172.6

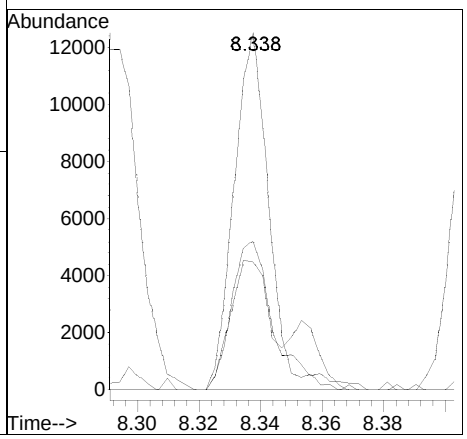


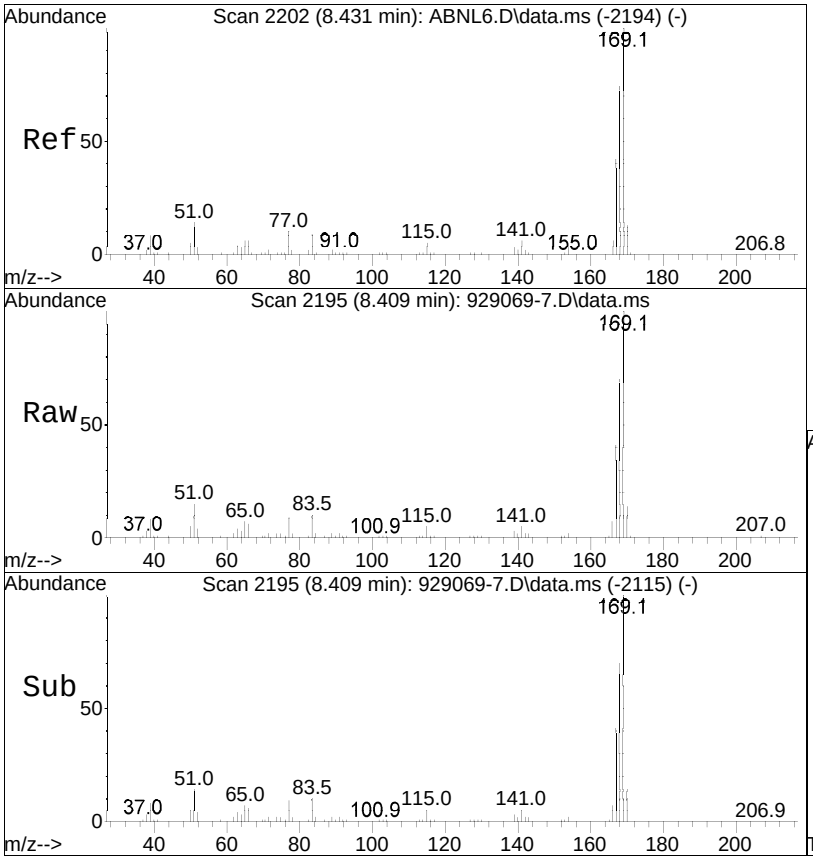


#75
4,6-Dinitro-o-cresol
Concen: 4.18 ug/ml
RT: 8.338 min Scan# 2172
Delta R.T. -0.000 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:198 Resp: 9855

Ion	Ratio	Lower	Upper
198	100		
51	52.0	76.0	114.0#
105	40.9	45.6	68.4#

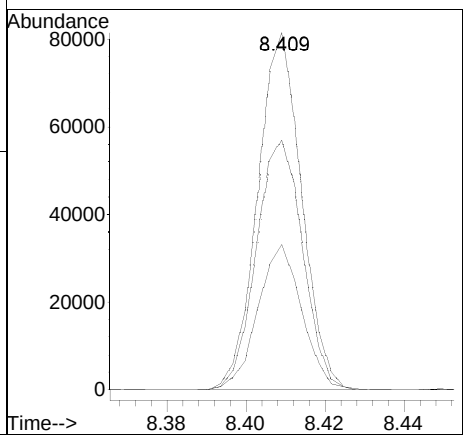


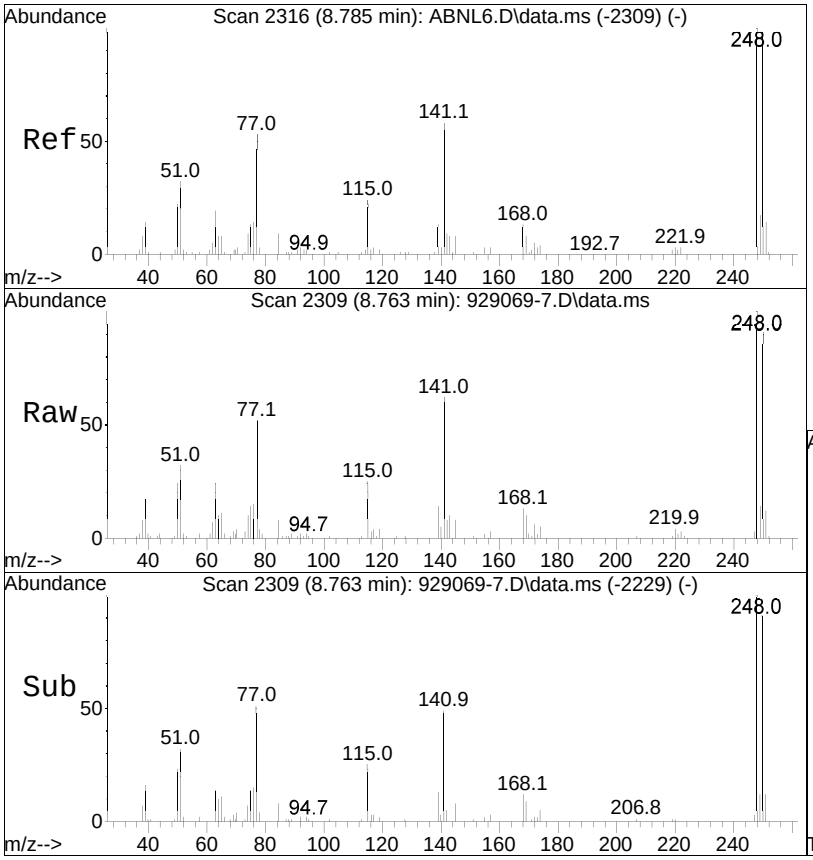


#76
NDPA/DPA
Concen: 4.06 ug/ml
RT: 8.409 min Scan# 2195
Delta R.T. -0.000 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:169 Resp: 62538

Ion	Ratio	Lower	Upper
169	100		
168	74.0	54.0	81.0
167	40.9	28.6	42.8

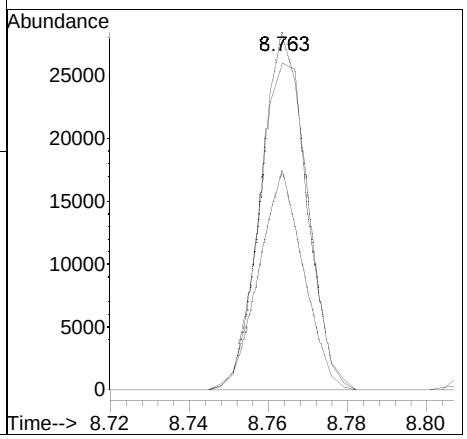


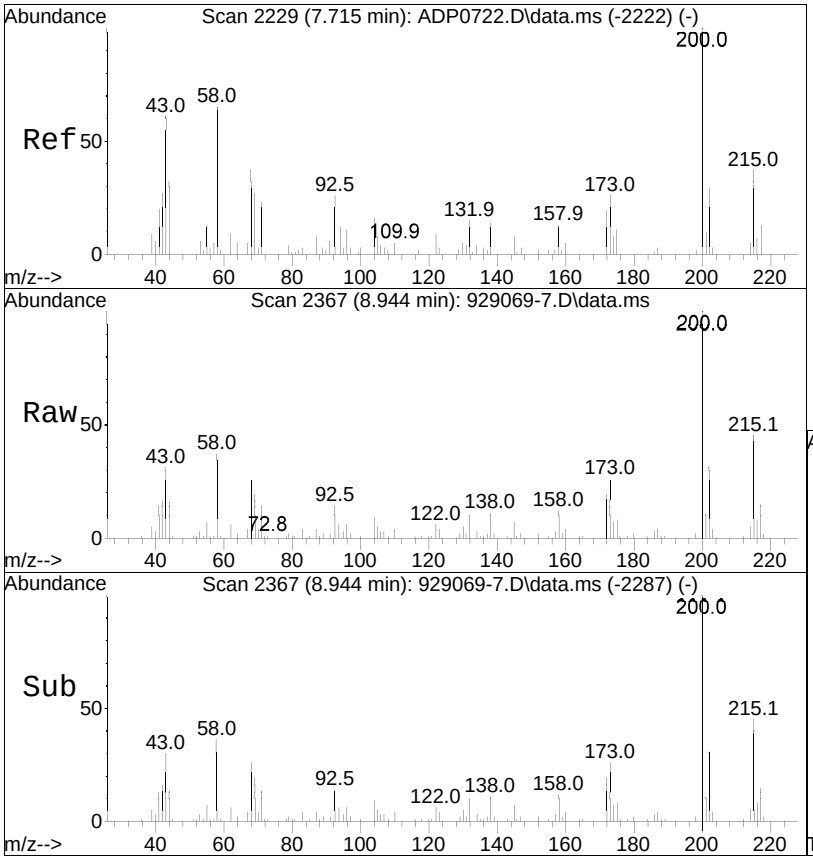


#79
4-Bromophenyl phenyl ether
Concen: 3.87 ug/ml
RT: 8.763 min Scan# 2309
Delta R.T. -0.000 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:248 Resp: 22761

Ion	Ratio	Lower	Upper
248	100		
141	59.8	76.6	114.8#
250	97.2	77.3	115.9

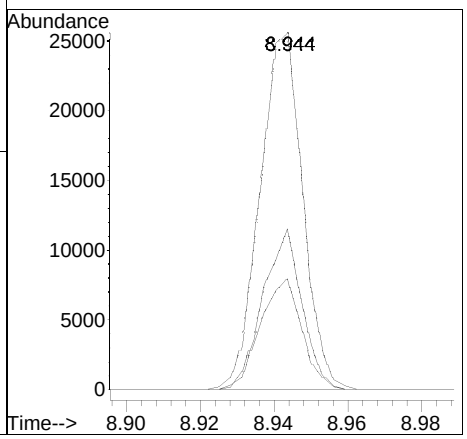


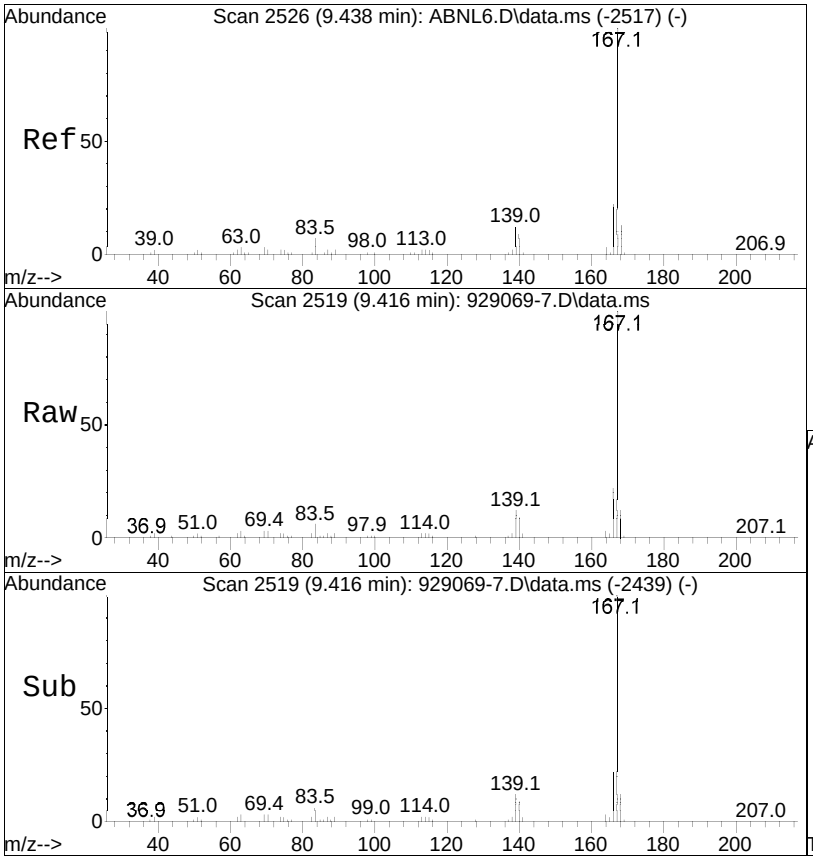


#86
Atrazine
Concen: 3.58 ug/ml
RT: 8.944 min Scan# 2367
Delta R.T. 0.000 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:200 Resp: 20434

Ion	Ratio	Lower	Upper
200	100		
202	30.3	25.8	38.6
215	41.1	40.2	60.4

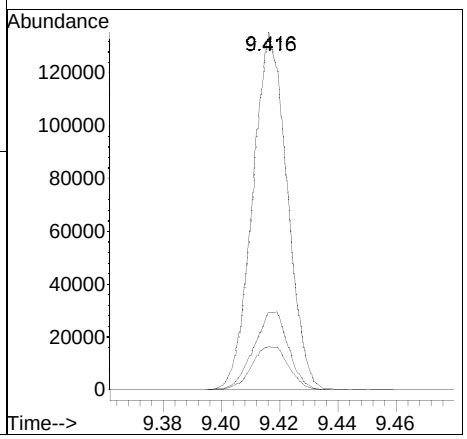


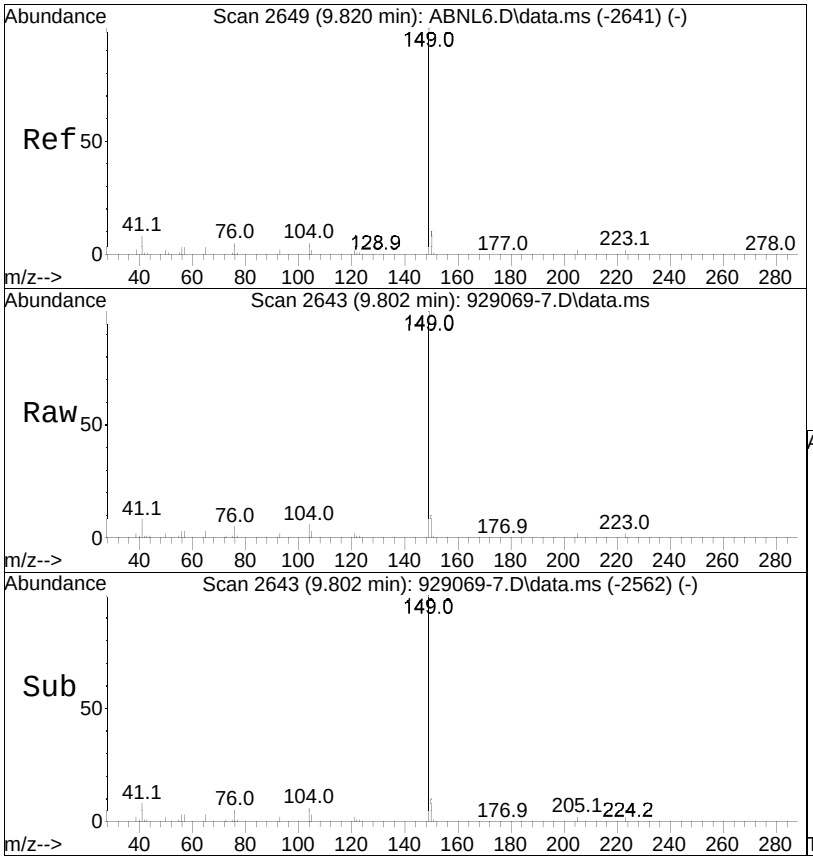


#90
Carbazole
Concen: 4.13 ug/ml
RT: 9.416 min Scan# 2519
Delta R.T. -0.000 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:167 Resp: 110095

Ion	Ratio	Lower	Upper
167	100		
168	13.1	10.6	15.8
166	22.2	17.4	26.0

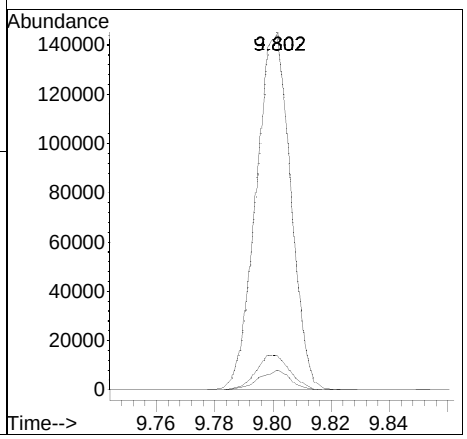


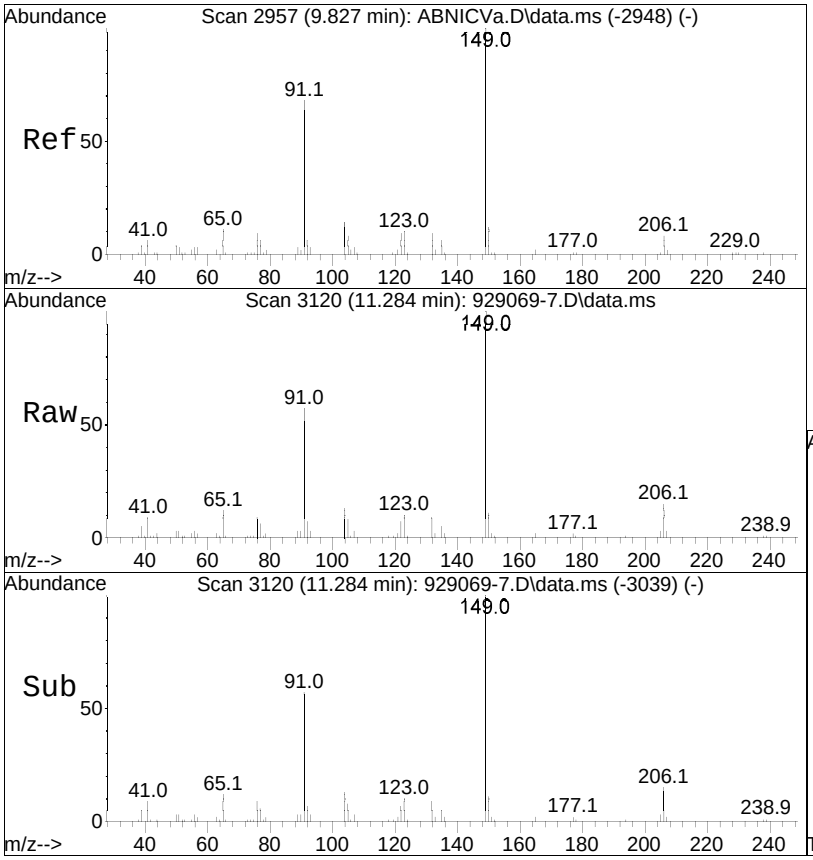


#91
Di-n-butylphthalate
Concen: 4.07 ug/ml
RT: 9.802 min Scan# 2643
Delta R.T. 0.003 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:149 Resp: 118048

Ion	Ratio	Lower	Upper
149	100		
150	9.6	7.0	10.6
104	5.1	4.5	6.7

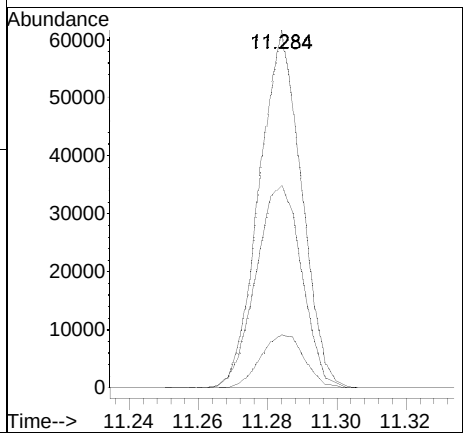


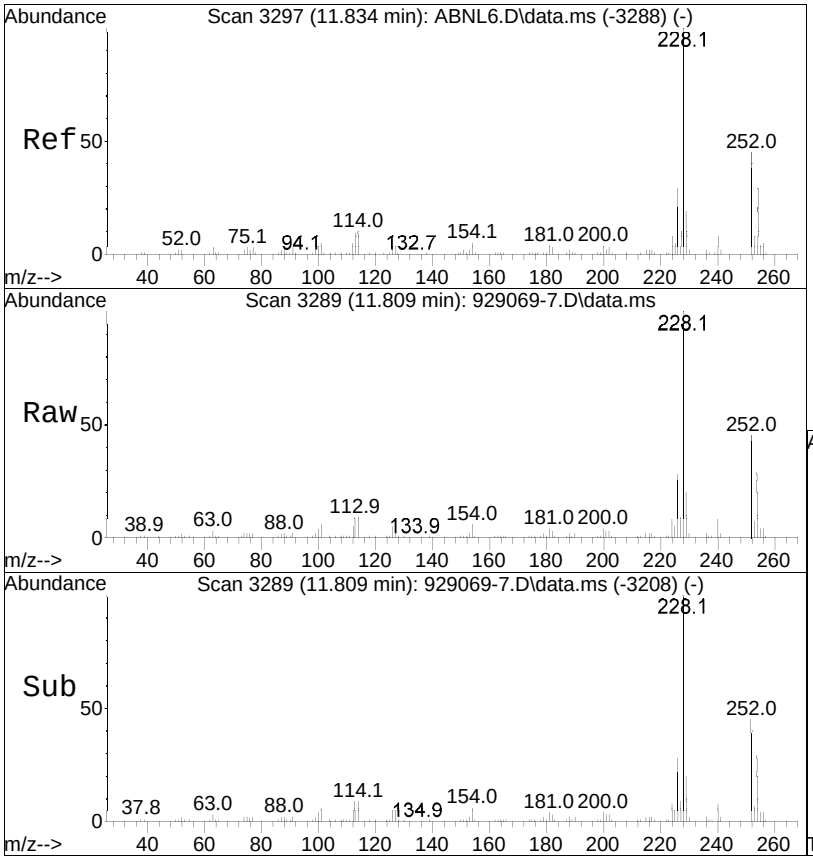


#96
Butyl benzyl phthalate
Concen: 3.89 ug/ml
RT: 11.284 min Scan# 3120
Delta R.T. 0.003 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:149 Resp: 51722

Ion	Ratio	Lower	Upper
149	100		
91	62.0	63.3	94.9#
206	15.6	13.9	20.9

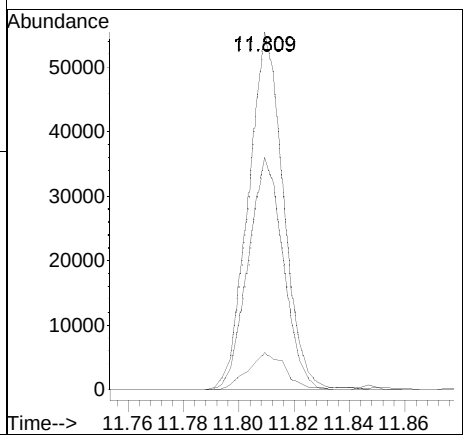


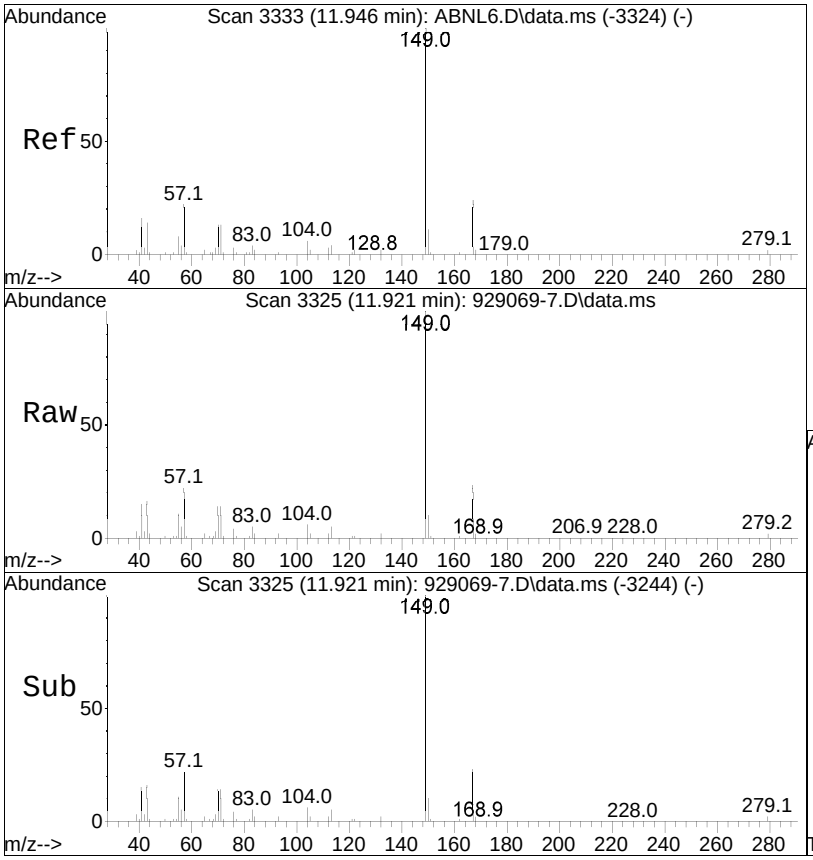


#105
3,3'-Dichlorobenzidine
Concen: 3.82 ug/ml
RT: 11.809 min Scan# 3289
Delta R.T. 0.003 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:252 Resp: 48578

Ion	Ratio	Lower	Upper
252	100		
126	11.3	14.5	21.7#
254	65.3	51.2	76.8

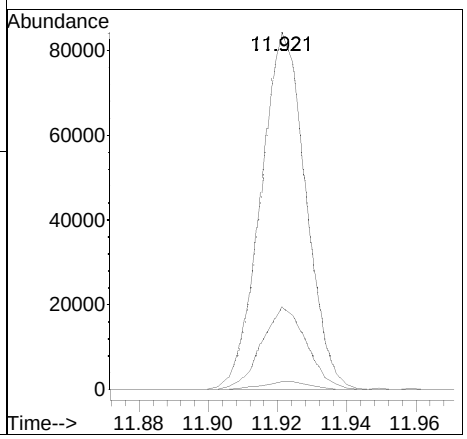


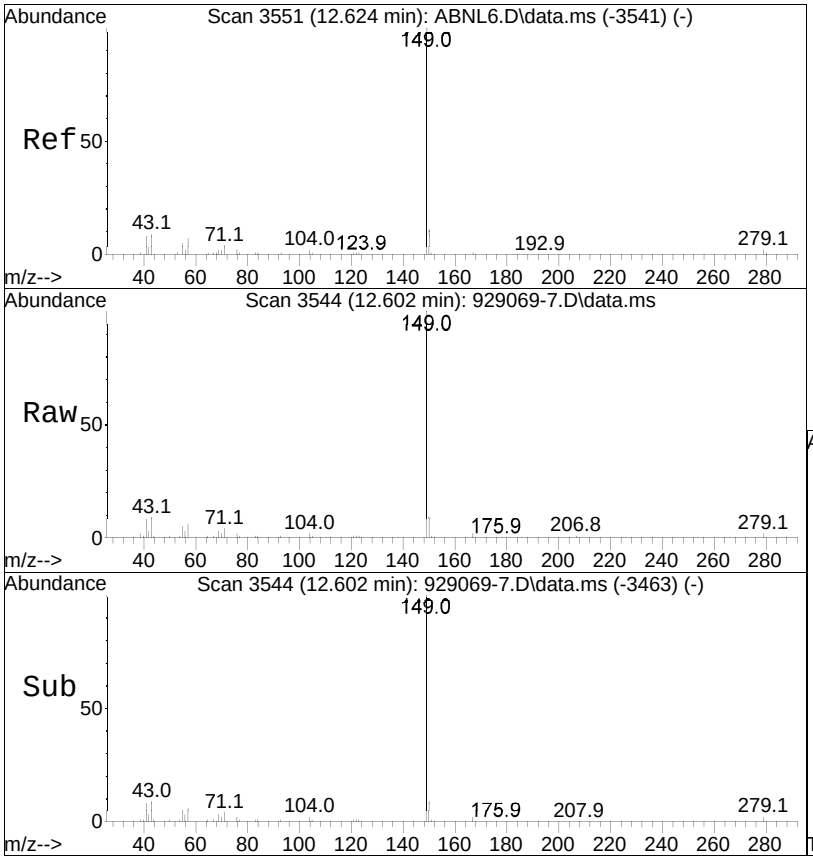


#107
Bis(2-ethylhexyl)phthalate
Concen: 4.22 ug/ml
RT: 11.921 min Scan# 3325
Delta R.T. 0.003 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:149 Resp: 75688

Ion	Ratio	Lower	Upper
149	100		
167	23.1	22.1	33.1
279	2.1	3.0	4.4#

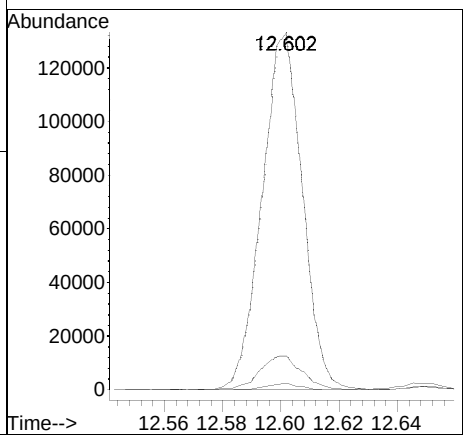




#108
Di-n-octylphthalate
Concen: 4.14 ug/ml
RT: 12.602 min Scan# 3544
Delta R.T. 0.003 min
Lab File: 929069-7.D
Acq: 5 Jun 2024 1:54 pm

Tgt Ion:149 Resp: 126438

Ion	Ratio	Lower	Upper
149	100		
43	10.2	18.8	28.2#
167	1.5	1.3	1.9



Manual Integration Report

Data Path	: I:\8270\Dakota\240605RVT\	QMethod	: FS240531RVTDakota.m
Data File	: 929069-7.D	Operator	: Dakota:sz
Date Inj'd	: 6/5/2024 1:54 pm	Instrument	: Dakota
Sample	: WG1929069-7,32,,gmr	Quant Date	: 6/5/2024 2:13 pm

There are no manual integrations or false positives in this file.

Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * 1000 * (1/Vo) * Vf

Where:
DF = Dilution Factor
Vo = Volume of Sample (mL)
Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)
Where:
DF = Dilution Factor
Wt = Weight of Sample (g)
Vf = Extraction Lab Final Volume (mL)
TS = Total Solids

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 18 2024, 04:50 pm

Work Group: WG1929069 for Department: 2 Organic Preparation

Created: 03-JUN-24 Due: Operator: LJO

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2429887-01	MW-1	C	NYTCL-8270-LVI	WATER	DONE	U	0606	0606	S0	Amber-A.25
L2429887-02	MW-2	C	NYTCL-8270-LVI	WATER	DONE	U	0606	0606	S0	Amber-A.25
L2429887-03	MW-3	C	NYTCL-8270-LVI	WATER	DONE	U	0606	0606	S0	Amber-A.25
L2429887-04	MW-4	C	NYTCL-8270-LVI	WATER	DONE	U	0606	0606	S0	Amber-A.25
L2430117-01	MW-1	C	NYTCL-8270-LVI	WATER	DONE	U	0605	0607	S0	Amber-A.25
L2430117-02	MW-2	C	NYTCL-8270-LVI	WATER	DONE	U	0605	0607	S0	Amber-A.25
L2430117-03	MW-3	C	NYTCL-8270-LVI	WATER	DONE	U	0605	0607	S0	Amber-A.25
L2430117-04	MW-4	C	NYTCL-8270-LVI	WATER	DONE	U	0605	0607	S0	Amber-A.25
L2430117-05	DUP	C	NYTCL-8270-LVI	WATER	DONE	U	0605	0607	S0	Amber-A.25
L2430117-06	EB	C	NYTCL-8270-LVI	WATER	DONE	U	0605	0607	S0	Amber-A.25
L2430219-01	MW-1S	C	NYTCL-8270-LVI	WATER	DONE	U	0606	0607	S0	Amber-A.25
L2430219-02	MW-2S	C	NYTCL-8270-LVI	WATER	DONE	U	0606	0607	S0	Amber-A.25
L2430219-03	MW-3S	C	NYTCL-8270-LVI	WATER	DONE	U	0606	0607	S0	Amber-A.25
L2430219-04	MW-4D	C	NYTCL-8270-LVI	WATER	DONE	U	0606	0607	S0	Amber-A.25
L2430219-05	MW-5S	C	NYTCL-8270-LVI	WATER	DONE	U	0606	0607	S0	Amber-A.25
L2430219-06	MW-6D	C	NYTCL-8270-LVI	WATER	DONE	U	0606	0607	S0	Amber-A.25
L2430219-07	MW-7S	C	NYTCL-8270-LVI	WATER	DONE	U	0606	0607	S0	Amber-A.25
L2430219-08	MW-8S	C	NYTCL-8270-LVI	WATER	DONE	U	0606	0607	S0	Amber-A.25
L2430219-09	DUP	C	NYTCL-8270-LVI	WATER	DONE	U	0606	0607	S0	Amber-A.25
L2430219-10	FB	C	NYTCL-8270-LVI	WATER	DONE	U	0606	0607	S0	Amber-A.25
WG1929069-1	Laboratory Method Bl	S	NYTCL-8270-LVI	WATER	DONE	U				
WG1929069-2	Laboratory Control S	S	NYTCL-8270-LVI	WATER	DONE	U				
WG1929069-3	LCS Duplicate	S	NYTCL-8270-LVI	WATER	DONE	U				
WG1929069-4	Matrix Spike	S	NYTCL-8270-LVI	WATER	DONE	U				
WG1929069-5	Matrix Spike Duplica	S	NYTCL-8270-LVI	WATER	DONE	U				
WG1929069-6	Matrix Spike	S	NYTCL-8270-LVI	WATER	DONE	U				
WG1929069-7	Matrix Spike Duplica	S	NYTCL-8270-LVI	WATER	DONE	U				

Comments:

WG1929069-3	WG1929069-2
WG1929069-4	L2430117-03
WG1929069-5	L2430117-03
WG1929069-6	L2430219-04
WG1929069-7	L2430219-04

Analysis log File

Total Files Reported in Log : 33
Log Generated From Directory: I:\8270\SV107\240602ical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	Tune1.D	8270RVT.M	Tune lot #10767	WG1929644,,ical	6/2/2024 7:09 pm
2	ABNL9.D	8270RVT.M	IL2,32,,ABNL50 Lot# 106	WG1929644,,ical	6/2/2024 7:34 pm
3	ABNL8.D	8270RVT.M	IL3,32,,ABNL25 Lot# 106	WG1929644,,ical	6/2/2024 7:59 pm
4	ABNL7.D	8270RVT.M	IL4,32,,ABNL10 Lot# 106	WG1929644,,ical	6/2/2024 8:24 pm
5	ABNL6.D	8270RVT.M	IL5,32,,ABNL5 Lot# 1069	WG1929644,,ical	6/2/2024 8:50 pm
6	ABNL5.D	8270RVT.M	IL6,32,,ABNL2.5 Lot# 10	WG1929644,,ical	6/2/2024 9:15 pm
7	ABNL4.D	8270RVT.M	IL7,32,,ABNL1 Lot# 1069	WG1929644,,ical	6/2/2024 9:40 pm
8	ABNL3.D	8270RVT.M	IL8,32,,ABNL0.5 Lot# 10	WG1929644,,ical	6/2/2024 10:05 pm
9	ABNL2.D	8270RVT.M	IL9,32,,ABNL0.2 Lot# 10	WG1929644,,ical	6/2/2024 10:30 pm
10	ABNL1.D	8270RVT.M	IL10,32,,ABNL0.1 Lot# 1	WG1929644,,ical	6/2/2024 10:56 pm
11	AP9L9.D	8270RVT.M	IL2,32,,AP9L50 Lot# 107	WG1929644,,ical	6/2/2024 11:21 pm
12	AP9L8.D	8270RVT.M	IL3,32,,AP9L25 Lot# 107	WG1929644,,ical	6/2/2024 11:47 pm
13	AP9L7.D	8270RVT.M	IL4,32,,AP9L10 Lot# 107	WG1929644,,ical	6/3/2024 12:12 am
14	AP9L6.D	8270RVT.M	IL5,32,,AP9L5 Lot# 1070	WG1929644,,ical	6/3/2024 12:37 am
15	AP9L5.D	8270RVT.M	IL6,32,,AP9L2.5 Lot# 10	WG1929644,,ical	6/3/2024 1:08 am
16	AP9L4.D	8270RVT.M	IL7,32,,AP9L1 Lot# 1070	WG1929644,,ical	6/3/2024 1:33 am
17	AP9L3.D	8270RVT.M	IL8,32,,AP9L0.5 Lot# 10	WG1929644,,ical	6/3/2024 1:58 am
18	AP9L2.D	8270RVT.M	IL9,32,,AP9L0.2 Lot# 10	WG1929644,,ical	6/3/2024 2:23 am
19	AP9L1.D	8270RVT.M	IL10,32,,AP9L0.1 Lot# 1	WG1929644,,ical	6/3/2024 2:49 am
20	ABNICV.D	8270RVT.M	CQICV1,32,,ABNICV Lot#	WG1929644,,ical	6/3/2024 3:14 am
21	AP9ICV.D	8270RVT.M	CQICV2,32,,AP9ICV Lot#	WG1929644,,ical	6/3/2024 3:39 am
22	Tune2.D	8270RVT.M	Tune lot #10767	WG1929644,,ical	6/3/2024 4:04 am
23	ADPL9.D	8270RVT.M	IL2,32,,ADPL50 Lot# 107	WG1929644,,ical	6/3/2024 4:29 am
24	ADPL8.D	8270RVT.M	IL3,32,,ADPL25 Lot# 107	WG1929644,,ical	6/3/2024 4:54 am
25	ADPL7.D	8270RVT.M	IL4,32,,ADPL10 Lot# 107	WG1929644,,ical	6/3/2024 5:19 am
26	ADPL6.D	8270RVT.M	IL5,32,,ADPL5 Lot# 1071	WG1929644,,ical	6/3/2024 5:45 am
27	ADPL5.D	8270RVT.M	IL6,32,,ADPL2.5 Lot# 10	WG1929644,,ical	6/3/2024 6:10 am
28	ADPL4.D	8270RVT.M	IL7,32,,ADPL1 Lot# 1071	WG1929644,,ical	6/3/2024 6:35 am
29	ADPL3.D	8270RVT.M	IL8,32,,ADPL0.5 Lot# 10	WG1929644,,ical	6/3/2024 7:00 am
30	ADPL2.D	8270RVT.M	IL9,32,,ADPL0.2 Lot# 10	WG1929644,,ical	6/3/2024 7:25 am
31	ADPL1.D	8270RVT.M	IL10,32,,ADPL0.1 Lot# 1	WG1929644,,ical	6/3/2024 7:50 am
32	ADPICV.D	8270RVT.M	CQICV3,32,,ADPICV Lot#	WG1929644,,ical	6/3/2024 8:15 am
33	InstBlnk.D	8270RVT.M	Instrument Blank	wg,,ical	6/3/2024 8:40 am

Printed: 06/04/24 Page: 1

Analysis log File

Total Files Reported in Log : 33
Log Generated From Directory: I:\8270\Dakota\240531ical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	Tune1.D	ABNRVT.M	Tune	WG1930266,,	5/31/2024 5:39 pm
2	ABNL9.D	ABNRVT.M	IL2,32,,ABNL50 Lot# 106	WG1930266	5/31/2024 6:03 pm
3	ABNL8.D	ABNRVT.M	IL3,32,,ABNL25 Lot# 106	WG1930266	5/31/2024 6:26 pm
4	ABNL7.D	ABNRVT.M	IL4,32,,ABNL10 Lot# 106	WG1930266	5/31/2024 6:50 pm
5	ABNL6.D	ABNRVT.M	IL5,32,,ABNL5 Lot# 1069	WG1930266	5/31/2024 7:16 pm
6	ABNL5.D	ABNRVT.M	IL6,32,,ABNL2.5 Lot# 10	WG1930266	5/31/2024 7:41 pm
7	ABNL4.D	ABNRVT.M	IL7,32,,ABNL1 Lot# 1069	WG1930266	5/31/2024 8:06 pm
8	ABNL3.D	ABNRVT.M	IL8,32,,ABNL0.5 Lot# 10	WG1930266	5/31/2024 8:32 pm
9	ABNL2.D	ABNRVT.M	IL9,32,,ABNL0.2 Lot# 10	WG1930266	5/31/2024 8:54 pm
10	ABNL1.D	ABNRVT.M	IL10,32,,ABNL0.1 Lot# 1	WG1930266	5/31/2024 9:16 pm
11	AP9L9.D	ABNRVT.M	IL2,32,,AP9L50 Lot# 107	WG1930266	5/31/2024 9:39 pm
12	AP9L8.D	ABNRVT.M	IL3,32,,AP9L25 Lot# 107	WG1930266	5/31/2024 10:01 pm
13	AP9L7.D	ABNRVT.M	IL4,32,,AP9L10 Lot# 107	WG1930266	5/31/2024 10:24 pm
14	AP9L6.D	ABNRVT.M	IL5,32,,AP9L5 Lot# 1070	WG1930266	5/31/2024 10:46 pm
15	AP9L5.D	ABNRVT.M	IL6,32,,AP9L2.5 Lot# 10	WG1930266	5/31/2024 11:08 pm
16	AP9L4.D	ABNRVT.M	IL7,32,,AP9L1 Lot# 1070	WG1930266	5/31/2024 11:30 pm
17	AP9L3.D	ABNRVT.M	IL8,32,,AP9L0.5 Lot# 10	WG1930266	5/31/2024 11:53 pm
18	AP9L1.D	ABNRVT.M	IL10,32,,AP9L0.1 Lot# 1	WG1930266	6/1/2024 12:37 am
19	AP9L2.D	ABNRVT.M	IL9,32,,AP9L0.2 Lot# 10	WG1930266	6/1/2024 12:15 am
20	ABNICV.D	ABNRVT.M	CQICV1,32,,ABNICV Lot#	WG1930266,,	6/1/2024 1:00 am
21	AP9ICV.D	ABNRVT.M	CQICV2,32,,AP9ICV Lot#	WG1930266	6/1/2024 1:22 am
22	Tune2.D	ABNRVT.M	Tune	WG1930266,,	6/1/2024 1:44 am
23	ADPL9.D	ABNRVT.M	IL2,32,,ADPL50 Lot# 107	WG1930266	6/1/2024 2:07 am
24	ADPL8.D	ABNRVT.M	IL3,32,,ADPL25 Lot# 107	WG1930266	6/1/2024 2:37 am
25	ADPL7.D	ABNRVT.M	IL4,32,,ADPL10 Lot# 107	WG1930266	6/1/2024 2:51 am
26	ADPL6.D	ABNRVT.M	IL5,32,,ADPL5 Lot# 1071	WG1930266	6/1/2024 3:13 am
27	ADPL5.D	ABNRVT.M	IL6,32,,ADPL2.5 Lot# 10	WG1930266	6/1/2024 3:36 am
28	ADPL4.D	ABNRVT.M	IL7,32,,ADPL1 Lot# 1071	WG1930266,,	6/1/2024 3:58 am
29	ADPL3.D	ABNRVT.M	IL8,32,,ADPL0.5 Lot# 10	WG1930266	6/1/2024 4:20 am
30	ADPL2.D	ABNRVT.M	IL9,32,,ADPL0.2 Lot# 10	WG1930266	6/1/2024 4:43 am
31	ADPL1.D	ABNRVT.M	IL10,32,,ADPL0.1 Lot# 1	WG1930266	6/1/2024 5:05 am
32	ADPICV.D	ABNRVT.M	CQICV3,32,,ADPICV Lot#	WG1930266	6/1/2024 5:27 am
33	Blank.D	ABNRVT.M	Instrument Blank	WG1930266	6/1/2024 5:50 am

Dep.: GCMS
Inst: **SV107**
Date: **06/04/24**
Run: **Night Run**

Method
GC: 8270 FSLVI

Seq: **WG1929711**

Vial	Data File	Sample	CCAL	notes	initials
141	DEG0604	wg-1,32,,Degdftpp Lot # 10769			
142	ABN0604	wg-3,32,,ABN LVI CCV Lot # 10526			
143	AP90604	wg-4,32,,AP9 LVI CCV Lot # 10340			
144	ADP0604	wg-5,32,,ADP LVI CCV Lot # 10751			
1	929328-1	WG1929328-1,32,,ASK			
2	929328-2	WG1929328-2,32,,ASK			
3	929328-3	WG1929328-3,32,,ASK			
4	928791-1	WG1928791/809/813-1,32,,ASK			
5	928791-2	WG1928791/809/813-2,32,,ASK			
6	928791-3	WG1928791/809/813-3,32,,ASK			
7	929069-1	WG1929069-1,32,,ASK			
8	929069-2	WG1929069-2,32,,ASK			
9	929069-3	WG1929069-3,32,,ASK			
10	29173-01	L2429173-01,32,,RE,ASK			
11	29173-02	L2429173-02,32,,RE,ASK			
12	29173-03	L2429173-03,32,,RE,ASK			
13	29173-04	L2429173-04,32,,RE,ASK			
14	29660-02	L2429660-02,32,,ASK			
15	29579-05	L2429579-05,32,,ASK			
16	29664-01	L2429664-01,32,,ASK			
17	29955-01	L2429955-01,32,,ASK			
18	29955-02	L2429955-02,32,,ASK			
19	29955-03	L2429955-03,32,,ASK			
20	29955-04	L2429955-04,32,,ASK			
21	29955-05	L2429955-05,32,,ASK			
22	29955-06	L2429955-06,32,,ASK			
23	29955-07	L2429955-07,32,,ASK			
24	29887-01	L2429887-01,32,,ASK			
25	29887-02	L2429887-02,32,,ASK			
					ljg 6/5/29

240605 **2024** Dakota

Dep.: GCMS
Inst: Dakota
Date: **06/05/24**
Run:

Method
GC: **8270 FSLVI**

Seq: **WG1929981**

Vial	Data File	Sample	CCAL	notes	initials
100	DEG0605	wg-1,32,,Degdftpp Lot#10769			
96	ABN0605	wg-3,32,,ABN 10526 HNY0517B			
97	AP90605	wg-4,32,,AP9 10776 mrg0604A			
98	ADP0605	wg-5,32,,ADP 10751 gmr0518A			
1	927654-1	WG1927654-1,32,,gmr			
2	927654-2	WG1927654-2,32,,gmr			
3	927654-3	WG1927654-3,32,,gmr			
4	29887-03	L2429887-03,32,,gmr			
5	929069-4	WG1929069-4,32,,gmr			
6	929069-5	WG1929069-5,32,,gmr			
7	29887-04	L2429887-04,32,,gmr			
8	30219-04	L2430219-04,32,,gmr			
9	929069-6	WG1929069-6,32,,gmr			
10	929069-7	WG1929069-7,32,,gmr			
11	28908-04	L2428908-04,32,,gmr			
12	28908-05	L2428908-05,32,,gmr			
13	28908-06	L2428908-06,32,,gmr			
14	28908-07	L2428908-07,32,,gmr			
15	28908-08	L2428908-08,32,,gmr			
16	30117-02	L2430117-02,32,,gmr			
17	30117-03	L2430117-03,32,,gmr			
18	30117-04	L2430117-04,32,,gmr			
19	30117-06	L2430117-06,32,,gmr			
20	30219-01	L2430219-01,32,,gmr			
21	30219-02	L2430219-02,32,,gmr			
22	30219-03	L2430219-03,32,,gmr			
23	30219-05	L2430219-05,32,,gmr			
24	30219-06	L2430219-06,32,,gmr			
25	30219-07	L2430219-07,32,,gmr			
26	30219-08	L2430219-08,32,,gmr			
27	30219-09	L2430219-09,32,,gmr			
28	30219-10	L2430219-10,32,,gmr			

Dep.: GCMS
Inst: Dakota
Date: **06/06/24**
Run:

Method
GC: **8270 FSLVI**

Seq: **WG1930740**

Vial	Data File	Sample	CCAL	notes	initials
100	DEG0606	wg-1,32,,Degdftpp Lot#10769			
96	ABN0606	wg-3,32,,ABN 10526 HNY0517B			
97	AP90606	wg-4,32,,AP9 10776 mrg0604A			
98	ADP0606	wg-5,32,,ADP 10751 gmr0518A			
1	930134-1	WG1930134-1,32,,LOQ,HNY			
2	930134-2	WG1930134-2,32,,LOQ,HNY			
3	930134-3	WG1930134-3,32,,LOQ,HNY			
4	930134-4	WG1930134-4,32,,LOQ,HNY			
5	930134-5	WG1930134-5,32,,LOQ,HNY			
6	930134-6	WG1930134-6,32,,LOQ,HNY			
7	930134-7	WG1930134-7,32,,LOQ,HNY			
8	930134-8	WG1930134-8,32,,LOQ,HNY			
9	930134-9	WG1930134-9,32,,LOQ,HNY			
10	00035-19	L2400035-19,32,,LOQ,HNY			
11	930510-1	WG1930510-1,32,,mrg			
12	930510-2	WG1930510-2,32,,mrg			
13	930510-3	WG1930510-3,32,,mrg			
14	075-08d2	I2430075-08d,32,400,jg			
15	075-08d1	I2430075-08d,32,20,jg			
16	30269-01	L2430269-01,32,,mrg			
17	30269-02	L2430269-02,32,,mrg			
18	30269-03	L2430269-03,32,,mrg			
19	30269-04	L2430269-04,32,,mrg			
20	30269-05	L2430269-05,32,,mrg			
21	30219-10	L2430219-10,32,,RR,mrg			mrg 6/6/24

ORGANIC ELN REPORT

Workgroup: WG1929069

Prep Method: EPA 3510C
Solvent Type: DCM
Surrogate Type: ABN
Spike Type: ABN
Spike Verify by: LJO
Lims Spikelot: 8270-LVI

Lot #: EI405
Lot #: 10743AH,11/06/2024,4C,25,7
Lot #: 10685AJ,10/11/2024 ;; 10727AE

Additional Reagents/Stds

H2SO4	A052024
Na2SO4	23L0461008
NaOH	10NNaOH051124

Conc.Method: Buchi
Solvent Type: DCM
Lot #: EII405

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type:
Lot #:

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2429887-01 SAMP	06/03/24 16:33	Luke O'Donnell	275	<2, >12	1		06/03/24 23:25	Alaina Ohara-Cruz	1	H
L2429887-02 SAMP	06/03/24 19:35	Luke O'Donnell	275	<2, >12	1		06/04/24 00:41	Alaina Ohara-Cruz	1	H
L2429887-03 SAMP	06/03/24 19:35	Luke O'Donnell	275	<2, >12	1		06/04/24 00:41	Alaina Ohara-Cruz	1	H
L2429887-04 SAMP	06/03/24 19:35	Luke O'Donnell	275	<2, >12	1		06/04/24 00:41	Alaina Ohara-Cruz	1	H
L2430117-01 SAMP	06/03/24 19:35	Luke O'Donnell	275	<2, >12	1		06/04/24 00:41	Alaina Ohara-Cruz	1	H

Reported: 18-JUN-24 04:50 PM

ORGANIC ELN REPORT

Workgroup: WG1929069

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2430117-02 SAMP	06/03/24 19:35	Luke O'Donnell	275	<2, >12	1		06/04/24 00:41	Alaina Ohara-Cruz	1	H
L2430117-03 SAMP	06/03/24 16:33	Luke O'Donnell	275	<2, >12	1		06/03/24 23:25	Alaina Ohara-Cruz	1	H
L2430117-04 SAMP	06/03/24 19:35	Luke O'Donnell	275	<2, >12	1		06/04/24 00:41	Alaina Ohara-Cruz	1	H
L2430117-05 SAMP	06/03/24 19:35	Luke O'Donnell	275	<2, >12	1		06/04/24 00:41	Alaina Ohara-Cruz	1	H
L2430117-06 SAMP	06/03/24 19:35	Luke O'Donnell	275	<2, >12	1		06/04/24 00:41	Alaina Ohara-Cruz	1	H
L2430219-01 SAMP	06/03/24 19:35	Luke O'Donnell	275	<2, >12	1		06/04/24 00:41	Alaina Ohara-Cruz	1	H
L2430219-02 SAMP	06/03/24 19:35	Luke O'Donnell	275	<2, >12	1		06/04/24 00:41	Alaina Ohara-Cruz	1	H
L2430219-03 SAMP	06/03/24 21:58	Luke O'Donnell	275	<2, >12	1		06/04/24 02:10	Alaina Ohara-Cruz	1	L

Reported: 18-JUN-24 04:50 PM

ORGANIC ELN REPORT

Workgroup: WG1929069

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2430219-04 SAMP	06/03/24 16:33	Luke O'Donnell	275	<2, >12	1		06/03/24 23:25	Alaina Ohara-Cruz	1	H
L2430219-05 SAMP	06/03/24 21:58	Luke O'Donnell	275	<2, >12	1		06/04/24 02:10	Alaina Ohara-Cruz	1	L
L2430219-06 SAMP	06/03/24 21:58	Luke O'Donnell	275	<2, >12	1		06/04/24 02:10	Alaina Ohara-Cruz	1	L
L2430219-07 SAMP	06/03/24 21:58	Luke O'Donnell	275	<2, >12	1		06/04/24 02:10	Alaina Ohara-Cruz	1	L
L2430219-08 SAMP	06/03/24 21:58	Luke O'Donnell	275	<2, >12	1		06/04/24 02:10	Alaina Ohara-Cruz	1	L
L2430219-09 SAMP	06/03/24 21:58	Luke O'Donnell	275	<2, >12	1		06/04/24 02:10	Alaina Ohara-Cruz	1	L
L2430219-10 SAMP	06/03/24 21:58	Luke O'Donnell	275	<2, >12	1		06/04/24 02:10	Alaina Ohara-Cruz	1	L
WG1929069-1 BLANK	06/03/24 16:33	Luke O'Donnell	275	<2, >12	1		06/03/24 23:25	Alaina Ohara-Cruz	1	H
	COMBO WITH WG1929068									

Reported: 18-JUN-24 04:50 PM

ORGANIC ELN REPORT

Workgroup: WG1929069

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1929069-2 LCS	06/03/24 16:33	Luke O'Donnell	275	<2, >12	1	1	06/03/24 23:25	Alaina Ohara-Cruz	1	H
WG1929069-3 LCSD	06/03/24 16:33	Luke O'Donnell	275	<2, >12	1	1	06/03/24 23:25	Alaina Ohara-Cruz	1	H
WG1929069-4 MS	06/03/24 16:33	Luke O'Donnell	275	<2, >12	1	1	06/03/24 23:25	Alaina Ohara-Cruz	1	H
WG1929069-5 MSD	06/03/24 16:33	Luke O'Donnell	275	<2, >12	1	1	06/03/24 23:25	Alaina Ohara-Cruz	1	H
WG1929069-6 MS	06/03/24 16:33	Luke O'Donnell	275	<2, >12	1	1	06/03/24 23:25	Alaina Ohara-Cruz	1	H
WG1929069-7 MSD	06/03/24 16:33	Luke O'Donnell	275	<2, >12	1	1	06/03/24 23:25	Alaina Ohara-Cruz	1	H

Reported: 18-JUN-24 04:50 PM

Semivolatiles Data
by Method 8270D-SIM

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Alpha Geoscience
Project Name: HUNTINGTON READY MIXED

Lab Number: L2430219
Project Number: 20116
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
MW-1S (L2430219-01)	74	64	105	84	135*	71	1
MW-2S (L2430219-02)	57	50	81	68	115	67	0
MW-3S (L2430219-03)	68	58	96	76	119	65	0
MW-4D (L2430219-04)	67	57	96	75	111	65	0
MW-5S (L2430219-05)	68	58	93	72	114	64	0
MW-6D (L2430219-06)	70	59	97	77	129*	68	1
MW-7S (L2430219-07)	69	59	96	74	120	62	0
MW-8S (L2430219-08)	67	57	90	71	110	59	0
DUP (L2430219-09)	69	59	95	75	122*	66	1
FB (L2430219-10)	66	55	89	69	103	60	0
WG1929068-1BLANK	65	55	94	74	114	68	0
WG1929068-2LCS	68	60	88	69	118	62	0
WG1929068-3LCSD	73	65	96	74	126*	65	1
MW-4DMS	80	72	103	81	137*	71	1
MW-4DMSD	69	62	89	69	115	60	0

QC LIMITS

(21-120)	2FP = 2-FLUOROPHENOL
(10-120)	PHL = PHENOL-D6
(23-120)	NBZ = NITROBENZENE-D5
(15-120)	FBP = 2-FLUOROBIPHENYL
(10-120)	TBP = 2,4,6-TRIBROMOPHENOL
(41-149)	TPH = 4-TERPHENYL-D14

*** Values outside of QC limits**

FORM II NYTCL-8270-SIM-LVI

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1929068-2 **Analysis Date** : 06/04/24 09:57	**File ID**	: 929068-2
LCSD Sample ID	: WG1929068-3 **Analysis Date** : 06/04/24 10:14	**File ID**	: 929068-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Acenaphthene	18	15	83	18	16	89	7	40-140	40
2-Chloronaphthalene	18	13	72	18	14	78	8	40-140	40
Fluoranthene	18	15	81	18	15	85	5	40-140	40
Hexachlorobutadiene	18	14	78	18	15	84	7	40-140	40
Naphthalene	18	13	73	18	14	79	8	40-140	40
Benzo(a)anthracene	18	18	100	18	19	106	6	40-140	40
Benzo(a)pyrene	18	15	81	18	16	86	6	40-140	40
Benzo(b)fluoranthene	18	15	82	18	16	90	9	40-140	40
Benzo(k)fluoranthene	18	15	80	18	15	83	4	40-140	40
Chrysene	18	16	91	18	18	98	7	40-140	40
Acenaphthylene	18	13	74	18	14	78	5	40-140	40
Anthracene	18	16	89	18	17	94	5	40-140	40
Benzo(ghi)perylene	18	14	75	18	14	79	5	40-140	40
Fluorene	18	15	84	18	16	89	6	40-140	40
Phenanthrene	18	16	87	18	17	91	4	40-140	40
Dibenzo(a,h)anthracene	18	14	74	18	14	79	7	40-140	40
Indeno(1,2,3-cd)pyrene	18	16	86	18	16	89	3	40-140	40
Pyrene	18	14	80	18	15	85	6	40-140	40
2-Methylnaphthalene	18	13	72	18	14	78	8	40-140	40
Pentachlorophenol	18	18	98	18	19	105	7	40-140	40
Hexachlorobenzene	18	17	96	18	18	101	5	40-140	40
Hexachloroethane	18	13	72	18	14	78	8	40-140	40

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2430219-04	**Analysis Date**	: 06/04/24 11:53
Matrix Spike	: WG1929068-6	**MS Analysis Date**	: 06/04/24 12:10
Matrix Spike Dup	: WG1929068-7	**MSD Analysis Date**	: 06/04/24 12:26

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Acenaphthene	ND	18.2	18	99	18.2	15	83	18	40-140	40
2-Chloronaphthalene	ND	18.2	15	83	18.2	13	72	14	40-140	40
Fluoranthene	ND	18.2	17	94	18.2	14	77	19	40-140	40
Hexachlorobutadiene	ND	18.2	17	94	18.2	14	77	19	40-140	40
Naphthalene	0.18	18.2	16	87	18.2	14	76	13	40-140	40
Benzo(a)anthracene	ND	18.2	22	120	18.2	17	94	26	40-140	40
Benzo(a)pyrene	ND	18.2	17	94	18.2	14	77	19	40-140	40
Benzo(b)fluoranthene	ND	18.2	18	99	18.2	15	83	18	40-140	40
Benzo(k)fluoranthene	ND	18.2	16	88	18.2	14	77	13	40-140	40
Chrysene	ND	18.2	20	110	18.2	16	88	22	40-140	40
Acenaphthylene	ND	18.2	15	83	18.2	13	72	14	40-140	40
Anthracene	ND	18.2	19	100	18.2	16	88	17	40-140	40
Benzo(ghi)perylene	ND	18.2	16	88	18.2	13	72	21	40-140	40
Fluorene	0.02J	18.2	18	99	18.2	15	83	18	40-140	40
Phenanthrene	0.03J	18.2	18	99	18.2	15	83	18	40-140	40
Dibenzo(a,h)anthracene	ND	18.2	16	88	18.2	13	72	21	40-140	40
Indeno(1,2,3-cd)pyrene	ND	18.2	18	99	18.2	15	83	18	40-140	40
Pyrene	ND	18.2	17	94	18.2	14	77	19	40-140	40
2-Methylnaphthalene	0.03J	18.2	15	83	18.2	13	72	14	40-140	40
Pentachlorophenol	ND	18.2	21	120	18.2	18	99	15	40-140	40
Hexachlorobenzene	ND	18.2	20	110	18.2	17	94	16	40-140	40
Hexachloroethane	ND	18.2	15	83	18.2	13	72	14	40-140	40

Method Blank Summary
Form 4
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab Sample ID	: WG1929068-1	**Lab File ID**	: 929068-1
Instrument ID	: SV119	**Extraction Date**	: 06/03/24
Matrix	: WATER	**Analysis Date**	: 06/04/24 10:30
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1929068-2LCS	WG1929068-2	06/04/24 09:57
WG1929068-3LCSD	WG1929068-3	06/04/24 10:14
MW-4D	L2430219-04	06/04/24 11:53
MW-4DMS	WG1929068-6	06/04/24 12:10
MW-4DMSD	WG1929068-7	06/04/24 12:26
MW-1S	L2430219-01	06/04/24 15:29
MW-2S	L2430219-02	06/04/24 15:45
MW-3S	L2430219-03	06/04/24 16:02
MW-5S	L2430219-05	06/04/24 16:18
MW-6D	L2430219-06	06/04/24 16:35
MW-7S	L2430219-07	06/04/24 16:52
MW-8S	L2430219-08	06/04/24 17:08
DUP	L2430219-09	06/04/24 17:25
FB	L2430219-10	06/06/24 17:36

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: SV119	**Analysis Date**	: 12/07/23 12:42
Tune Standard	: R1772537-1	**Tune File ID**	: TUNE_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	48.2
68	Less than 2.0% of mass 69	0.6 (1.5)1
69		100
70	Less than 2.0% of mass 69	0.2 (.6)1
127	10.0 - 80.0% of Base Peak	53.2
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	27.9
365	Greater than 1.0% of mass 198	2.5
441	Present, but less than 24% of mass 442	18.2
442	Base Peak, or >50% of mass 198	86.2
443	15.0 - 24.0% of mass 442	16.1 (18.7)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
IL10	R1772537-3	IL10	12/07/23 13:10
IL9	R1772537-11	IL9	12/07/23 13:27
IL8	R1772537-10	IL8	12/07/23 13:46
IL7	R1772537-9	IL7	12/07/23 14:03
IL6	R1772537-8	IL6	12/07/23 14:20
IL5	R1772537-7	IL5	12/07/23 14:36
IL4	R1772537-6	IL4	12/07/23 14:53
IL3	R1772537-5	IL3	12/07/23 15:09
IL2	R1772537-4	IL2	12/07/23 15:26
IL1	R1772537-2	IL1	12/07/23 15:42
ICV Quant Report	R1772537-12	ICV	12/07/23 15:59

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: SV119	**Analysis Date**	: 06/04/24 06:31
Tune Standard	: WG1929299-1	**Tune File ID**	: deg0604_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	64.4
68	Less than 2.0% of mass 69	0.8 (1.7)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	55.7
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 60.0% of Base Peak	23
365	Greater than 1.0% of mass 198	2.4
441	Present, but less than 24% of mass 442	21.1
442	Base Peak, or >50% of mass 198	57.7
443	15.0 - 24.0% of mass 442	10.7 (18.5)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1929299-4TFACTOR-B	WG1929299-4	DEG0604	06/04/24 06:31
WG1929299-5TFACTOR-P	WG1929299-5	DEG0604	06/04/24 06:31
WG1929299-3CCAL	WG1929299-3	CCV0604	06/04/24 06:49
WG1929068-2LCS	WG1929068-2	929068-2	06/04/24 09:57
WG1929068-3LCSD	WG1929068-3	929068-3	06/04/24 10:14
WG1929068-1BLANK	WG1929068-1	929068-1	06/04/24 10:30
MW-4D	L2430219-04	30219-04	06/04/24 11:53
WG1929068-6MS	WG1929068-6	929068-6	06/04/24 12:10
WG1929068-7MSD	WG1929068-7	929068-7	06/04/24 12:26
MW-1S	L2430219-01	30219-01	06/04/24 15:29
MW-2S	L2430219-02	30219-02	06/04/24 15:45
MW-3S	L2430219-03	30219-03	06/04/24 16:02
MW-5S	L2430219-05	30219-05	06/04/24 16:18
MW-6D	L2430219-06	30219-06	06/04/24 16:35
MW-7S	L2430219-07	30219-07	06/04/24 16:52
MW-8S	L2430219-08	30219-08	06/04/24 17:08
DUP	L2430219-09	30219-09	06/04/24 17:25

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: SV119	**Analysis Date**	: 06/06/24 06:17
Tune Standard	: WG1930543-1	**Tune File ID**	: deg0606_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	58.3
68	Less than 2.0% of mass 69	0.8 (1.6)1
69		100
70	Less than 2.0% of mass 69	0.3 (.6)1
127	10.0 - 80.0% of Base Peak	58.8
197	Less than 2.0% of mass 198	1
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7.1
275	10.0 - 60.0% of Base Peak	23.3
365	Greater than 1.0% of mass 198	2.7
441	Present, but less than 24% of mass 442	18
442	Base Peak, or >50% of mass 198	64.3
443	15.0 - 24.0% of mass 442	12.1 (18.8)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1930543-4TFACTOR-B	WG1930543-4	DEG0606	06/06/24 06:17
WG1930543-5TFACTOR-P	WG1930543-5	DEG0606	06/06/24 06:17
WG1930543-3CCAL	WG1930543-3	CCV0606	06/06/24 06:36
FB	L2430219-10	30219-10	06/06/24 17:36

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: SV119	**Analysis Date**	: 06/04/24 06:49:00
Sample No	: WG1929299-3	**Lab File ID**	: CCV0604

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1929299-3	56492	1.90	186100	2.55	98337	3.50
Upper Limit	112984	2.40	372200	3.05	196674	4.00
Lower Limit	28246	1.40	93050	2.05	49169	3.00
Sample ID						
WG1929068-2 LCS	50822	1.91	172387	2.55	88193	3.50
WG1929068-3 LCSD	53203	1.91	182004	2.55	93249	3.50
WG1929068-1 BLANK	53650	1.91	179237	2.55	94902	3.50
MW-4D	47825	1.91	157331	2.55	80517	3.50
MW-4D MS	48340	1.91	165202	2.55	83365	3.50
MW-4D MSD	51879	1.91	176754	2.55	90012	3.50
MW-1S	43899	1.91	149346	2.55	79607	3.50
MW-2S	45411	1.91	152008	2.55	80488	3.50
MW-3S	46216	1.91	153468	2.55	81281	3.50
MW-5S	46369	1.91	154501	2.55	81181	3.50
MW-6D	46036	1.91	153934	2.55	81611	3.50
MW-7S	47661	1.91	159607	2.55	84644	3.50
MW-8S	46440	1.91	156206	2.55	83771	3.50
DUP	44935	1.91	150444	2.55	80225	3.50

Area Upper Limit = +100% of internal standard area

Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT

RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: SV119	**Analysis Date**	: 06/04/24 06:49:00
Sample No	: WG1929299-3	**Lab File ID**	: CCV0604

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1929299-3	215749	4.32	188074	5.85	198758	6.80
Upper Limit	431498	4.82	376148	6.35	397516	7.30
Lower Limit	107875	3.82	94037	5.35	99379	6.30
Sample ID						
WG1929068-2 LCS	187572	4.32	146550	5.84	161139	6.79
WG1929068-3 LCSD	199714	4.32	155620	5.84	174062	6.79
WG1929068-1 BLANK	202030	4.32	186098	5.84	189320	6.78
MW-4D	167383	4.32	146053	5.84	148708	6.78
MW-4D MS	179367	4.32	137150	5.84	157856	6.79
MW-4D MSD	193572	4.32	153244	5.84	169638	6.79
MW-1S	161933	4.32	144040	5.85	156503	6.80
MW-2S	166293	4.32	146957	5.84	160405	6.79
MW-3S	169351	4.32	144366	5.84	155007	6.79
MW-5S	173217	4.32	155265	5.85	163405	6.79
MW-6D	175602	4.32	158616	5.85	168571	6.80
MW-7S	178466	4.32	151028	5.84	159292	6.79
MW-8S	176073	4.32	159085	5.84	169104	6.79
DUP	169551	4.32	152314	5.84	162809	6.79

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: SV119	**Analysis Date**	: 06/06/24 06:36:00
Sample No	: WG1930543-3	**Lab File ID**	: CCV0606

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1930543-3	44606	1.90	148665	2.55	79727	3.50
Upper Limit	89212	2.40	297330	3.05	159454	4.00
Lower Limit	22303	1.40	74333	2.05	39864	3.00
Sample ID						
FB	43125	1.90	141732	2.55	74473	3.50

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: SV119	**Analysis Date**	: 06/06/24 06:36:00
Sample No	: WG1930543-3	**Lab File ID**	: CCV0606

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1930543-3	178963	4.32	176607	5.85	187208	6.80
Upper Limit	357926	4.82	353214	6.35	374416	7.30
Lower Limit	89482	3.82	88304	5.35	93604	6.30
Sample ID						
FB	154215	4.32	155853	5.84	179763	6.78

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

EPA 8270E Low Level PAH (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	0.1	0.035	ug/l	40-140	40	40-140	40	40			
2-Chloronaphthalene	91-58-7	0.2	0.035	ug/l	40-140	40	40-140	40	40			
Fluoranthene	206-44-0	0.1	0.038	ug/l	40-140	40	40-140	40	40			
Hexachlorobutadiene	87-68-3	0.5	0.036	ug/l	40-140	40	40-140	40	40			
Naphthalene	91-20-3	0.1	0.043	ug/l	40-140	40	40-140	40	40			
Benzo(a)anthracene	56-55-3	0.1	0.018	ug/l	40-140	40	40-140	40	40			
Benzo(a)pyrene	50-32-8	0.1	0.039	ug/l	40-140	40	40-140	40	40			
Benzo(b)fluoranthene	205-99-2	0.1	0.016	ug/l	40-140	40	40-140	40	40			
Benzo(k)fluoranthene	207-08-9	0.1	0.042	ug/l	40-140	40	40-140	40	40			
Chrysene	218-01-9	0.1	0.038	ug/l	40-140	40	40-140	40	40			
Acenaphthylene	208-96-8	0.1	0.035	ug/l	40-140	40	40-140	40	40			
Anthracene	120-12-7	0.1	0.035	ug/l	40-140	40	40-140	40	40			
Benzo(ghi)perylene	191-24-2	0.1	0.042	ug/l	40-140	40	40-140	40	40			
Fluorene	86-73-7	0.1	0.037	ug/l	40-140	40	40-140	40	40			
Phenanthrene	85-01-8	0.1	0.015	ug/l	40-140	40	40-140	40	40			
Dibenzo(a,h)anthracene	53-70-3	0.1	0.039	ug/l	40-140	40	40-140	40	40			
Indeno(1,2,3-cd)Pyrene	193-39-5	0.1	0.04	ug/l	40-140	40	40-140	40	40			
Pyrene	129-00-0	0.1	0.04	ug/l	40-140	40	40-140	40	40			
1-Methylnaphthalene	90-12-0	0.1	0.041	ug/l	40-140	40	40-140	40	40			
2-Methylnaphthalene	91-57-6	0.1	0.045	ug/l	40-140	40	40-140	40	40			
Pentachlorophenol	87-86-5	0.8	0.22	ug/l	40-140	40	40-140	40	40			
Hexachlorobenzene	118-74-1	0.8	0.032	ug/l	40-140	40	40-140	40	40			
Hexachloroethane	67-72-1	0.8	0.03	ug/l	40-140	40	40-140	40	40			
2-Fluorophenol	*367-12-4*									*21-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*15-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-120*		
4-Terphenyl-d14	*1718-51-0*									*41-149*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
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EPA 8270E Low Level PAH (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	6.68	1.4028	ug/kg	40-140	50	40-140	50	50			
2-Chloronaphthalene	91-58-7	6.68	0.8684	ug/kg	40-140	50	40-140	50	50			
Fluoranthene	206-44-0	6.68	0.4676	ug/kg	40-140	50	40-140	50	50			
Hexachlorobutadiene	87-68-3	6.68	0.9352	ug/kg	34-107	50	40-140	50	50			
Naphthalene	91-20-3	6.68	1.2024	ug/kg	40-140	50	40-140	50	50			
Benzo(a)anthracene	56-55-3	6.68	0.6346	ug/kg	40-140	50	40-140	50	50			
Benzo(a)pyrene	50-32-8	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Benzo(b)fluoranthene	205-99-2	6.68	0.6346	ug/kg	40-140	50	40-140	50	50			
Benzo(k)fluoranthene	207-08-9	6.68	0.6012	ug/kg	40-140	50	40-140	50	50			
Chrysene	218-01-9	6.68	0.501	ug/kg	40-140	50	40-140	50	50			
Acenaphthylene	208-96-8	6.68	0.835	ug/kg	40-140	50	40-140	50	50			
Anthracene	120-12-7	6.68	0.5344	ug/kg	40-140	50	40-140	50	50			
Benzo(ghi)perylene	191-24-2	6.68	0.5678	ug/kg	40-140	50	40-140	50	50			
Fluorene	86-73-7	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Phenanthrene	85-01-8	6.68	0.5678	ug/kg	40-140	50	40-140	50	50			
Dibenzo(a,h)anthracene	53-70-3	6.68	0.668	ug/kg	40-140	50	40-140	50	50			
Indeno(1,2,3-cd)Pyrene	193-39-5	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Pyrene	129-00-0	6.68	0.4676	ug/kg	35-142	50	35-142	50	50			
1-Methylnaphthalene	90-12-0	6.68	1.0354	ug/kg	40-140	50	40-140	50	50			
2-Methylnaphthalene	91-57-6	6.68	1.9038	ug/kg	40-140	50	40-140	50	50			
Pentachlorophenol	87-86-5	26.72	2.9392	ug/kg	17-109	50	17-109	50	50			
Hexachlorobenzene	118-74-1	6.68	0.7014	ug/kg	40-140	50	40-140	50	50			
Hexachloroethane	67-72-1	6.68	1.2358	ug/kg	29-106	50	40-140	50	50			
2-Fluorophenol	*367-12-4*									*25-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*30-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-136*		
4-Terphenyl-d14	*1718-51-0*									*18-120*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Semivolatile Sample Data

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 15:29
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 30219-01	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	0.16	0.10	0.01	
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	0.04	0.10	0.02	J
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	0.07	0.10	0.05	J
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	0.04	0.10	0.01	J
120-12-7	Anthracene	0.08	0.10	0.01	J
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	0.13	0.10	0.01	
85-01-8	Phenanthrene	0.10	0.10	0.02	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	0.06	0.10	0.02	J
87-86-5	Pentachlorophenol	0.24	0.80	0.01	J
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 15:45
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 30219-02	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	ND	0.10	0.05	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 16:02
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 30219-03	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	0.08	0.10	0.02	J
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	ND	0.10	0.05	U
56-55-3	Benzo(a)anthracene	0.09	0.10	0.02	J
50-32-8	Benzo(a)pyrene	0.08	0.10	0.02	J
205-99-2	Benzo(b)fluoranthene	0.23	0.10	0.01	
207-08-9	Benzo(k)fluoranthene	0.09	0.10	0.01	J
218-01-9	Chrysene	0.14	0.10	0.01	
208-96-8	Acenaphthylene	0.03	0.10	0.01	J
120-12-7	Anthracene	0.04	0.10	0.01	J
191-24-2	Benzo(ghi)perylene	0.16	0.10	0.01	
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	0.04	0.10	0.02	J
53-70-3	Dibenzo(a,h)anthracene	0.05	0.10	0.01	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.14	0.10	0.01	
129-00-0	Pyrene	0.07	0.10	0.02	J
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	0.11	0.80	0.01	J
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 11:53
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 30219-04	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	0.18	0.10	0.05	
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	0.02	0.10	0.01	J
85-01-8	Phenanthrene	0.03	0.10	0.02	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	0.03	0.10	0.02	J
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 16:18
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 30219-05	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	0.04	0.10	0.01	J
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	0.04	0.10	0.02	J
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	9.6	0.10	0.05	
56-55-3	Benzo(a)anthracene	0.02	0.10	0.02	J
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	0.06	0.10	0.01	J
207-08-9	Benzo(k)fluoranthene	0.02	0.10	0.01	J
218-01-9	Chrysene	0.02	0.10	0.01	J
208-96-8	Acenaphthylene	0.38	0.10	0.01	
120-12-7	Anthracene	0.05	0.10	0.01	J
191-24-2	Benzo(ghi)perylene	0.03	0.10	0.01	J
86-73-7	Fluorene	0.43	0.10	0.01	
85-01-8	Phenanthrene	0.35	0.10	0.02	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.03	0.10	0.01	J
129-00-0	Pyrene	0.03	0.10	0.02	J
91-57-6	2-Methylnaphthalene	0.75	0.10	0.02	
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 16:35
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 30219-06	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	ND	0.10	0.05	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	0.03	0.10	0.01	J
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 16:52
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 30219-07	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	0.03	0.10	0.02	J
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	ND	0.10	0.05	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	0.02	0.10	0.02	J
205-99-2	Benzo(b)fluoranthene	0.03	0.10	0.01	J
207-08-9	Benzo(k)fluoranthene	0.02	0.10	0.01	J
218-01-9	Chrysene	0.02	0.10	0.01	J
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	0.03	0.10	0.01	J
191-24-2	Benzo(ghi)perylene	0.02	0.10	0.01	J
86-73-7	Fluorene	0.02	0.10	0.01	J
85-01-8	Phenanthrene	0.03	0.10	0.02	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.02	0.10	0.01	J
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 17:08
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 30219-08	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	0.02	0.20	0.02	J
206-44-0	Fluoranthene	0.03	0.10	0.02	J
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	0.25	0.10	0.05	
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	0.01	0.10	0.01	J
120-12-7	Anthracene	0.03	0.10	0.01	J
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	0.02	0.10	0.01	J
85-01-8	Phenanthrene	0.04	0.10	0.02	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	0.03	0.10	0.02	J
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	0.03	0.80	0.01	J
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 17:25
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 30219-09	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	0.11	0.10	0.05	
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	0.01	0.10	0.01	J
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	0.01	0.10	0.01	J
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-10	**Date Collected**	: 05/30/24 14:25
Client ID	: FB	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 17:36
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 30219-10	**Analyst**	: RP
Sample Amount	: 275 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	0.02	0.20	0.02	J
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	0.10	0.10	0.05	J
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	0.02	0.10	0.01	J
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	0.02	0.10	0.01	J
85-01-8	Phenanthrene	0.03	0.10	0.02	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	0.02	0.10	0.02	J
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	0.01	0.80	0.01	J
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1929068-1	**Date Collected**	: NA
Client ID	: WG1929068-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/04/24 10:30
Sample Matrix	: WATER	**Date Extracted**	: 06/03/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 929068-1	**Analyst**	: RP
Sample Amount	: 275 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	0.07	0.10	0.05	J
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	0.02	0.10	0.01	J
85-01-8	Phenanthrene	0.03	0.10	0.02	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	0.02	0.10	0.02	J
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 30219-04.D
Acq On : 04 Jun 2024 11:53 am
Operator : sv119:jjw
Sample : L2430219-04,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 06 11:17:32 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240604LVI\ccv0604.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.907	152	47825	4000.000	ng/ml	0.00
Standard Area 1 = 56492			Recovery = 84.66%			
8) Naphthalene-d8	2.551	136	157331	4000.000	ng/ml	0.00
Standard Area 1 = 186100			Recovery = 84.54%			
17) Acenaphthene-d10	3.499	164	80517	4000.000	ng/ml	0.00
Standard Area 1 = 98337			Recovery = 81.88%			
22) Phenanthrene-d10	4.318	188	167383	4000.000	ng/ml	0.00
Standard Area 1 = 215749			Recovery = 77.58%			
31) Chrysene-d12	5.837	240	146053	4000.000	ng/ml	-0.01
Standard Area 1 = 188074			Recovery = 77.66%			
36) Perylene-d12	6.781	264	148708	4000.000	ng/ml	-0.02
Standard Area 1 = 198758			Recovery = 74.82%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.342	112	44078	3369.637	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 67.39%			
3) Phenol-d6	1.742	99	44370	2829.714	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 56.59%			
7) Nitrobenzene-d5	2.183	82	28498	2396.008	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 95.84%			
13) 2-Fluorobiphenyl	3.138	172	66037	1879.356	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 75.17%			
21) 2,4,6-Tribromophenol	3.937	330	24576	5536.344	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 110.73%#			
30) 4-Terphenyl-d14	5.229	244	67099	1635.234	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 65.41%			
Target Compounds						Qvalue
6) Hexachloroethane	2.156	117	13	2.197	ng/ml	98
9) Naphthalene	2.562	128	1810	48.180	ng/ml	98
10) Hexachlorobutadiene	2.636	225	31M7	3.832	ng/ml	
11) 2-Methylnaphthalene	2.933	142	220M6	7.920	ng/ml	
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	3.516	153	77	3.093	ng/ml	95
20) Fluorene	3.801	166	136M6	4.571	ng/ml	
24) Hexachlorobenzene	0.000		0	N.D.	d	
25) Pentachlorophenol	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 30219-04.D
Acq On : 04 Jun 2024 11:53 am
Operator : sv119:jjw
Sample : L2430219-04,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 06 11:17:32 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240604LVI\ccv0604.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.330	178	326M1	7.667	ng/ml	
27) Anthracene	4.358	178	154M4	3.652	ng/ml	
28) Fluoranthene	4.998	202	216M6	3.855	ng/ml	
29) Pyrene	5.126	202	169M6	2.936	ng/ml	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

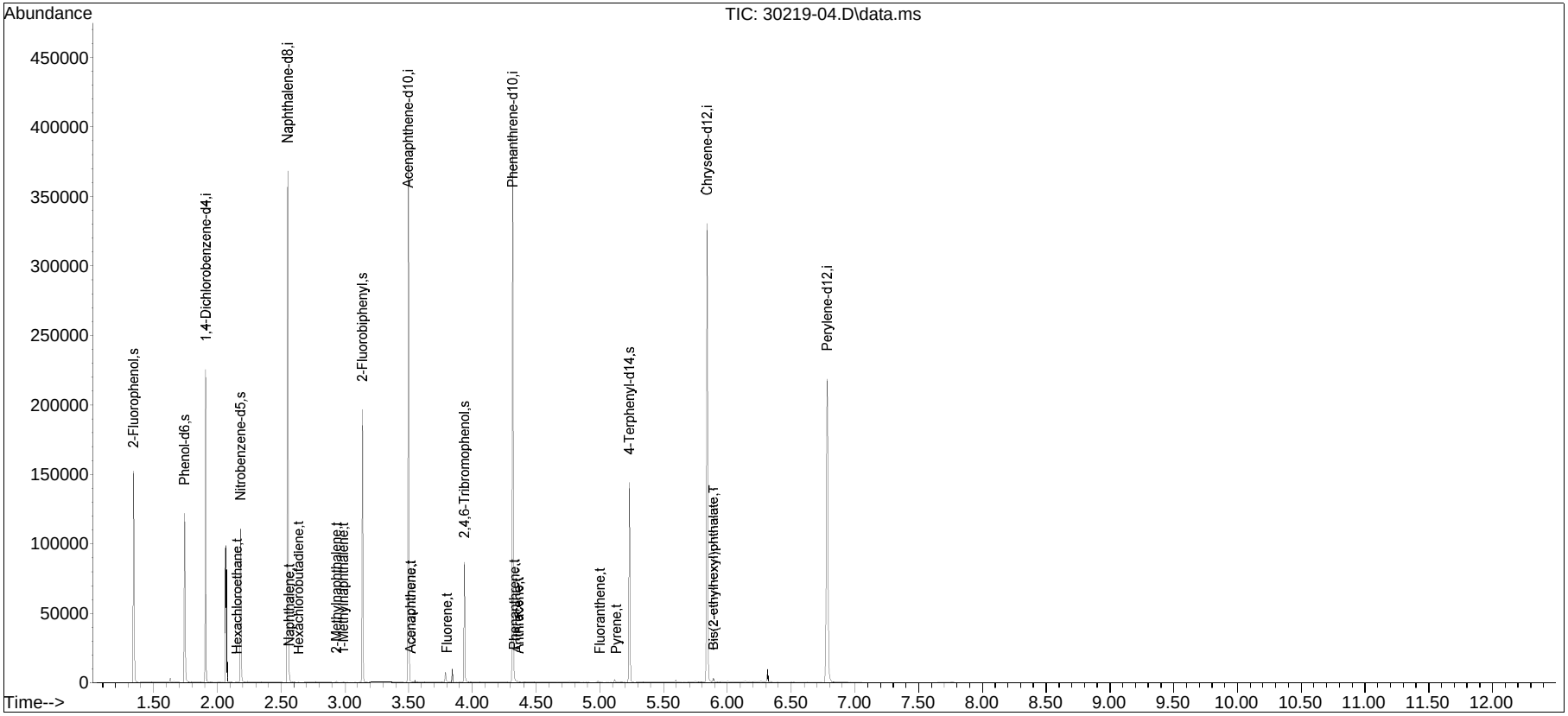
(#) = qualifier out of range (m) = manual integration (+) = signals summed

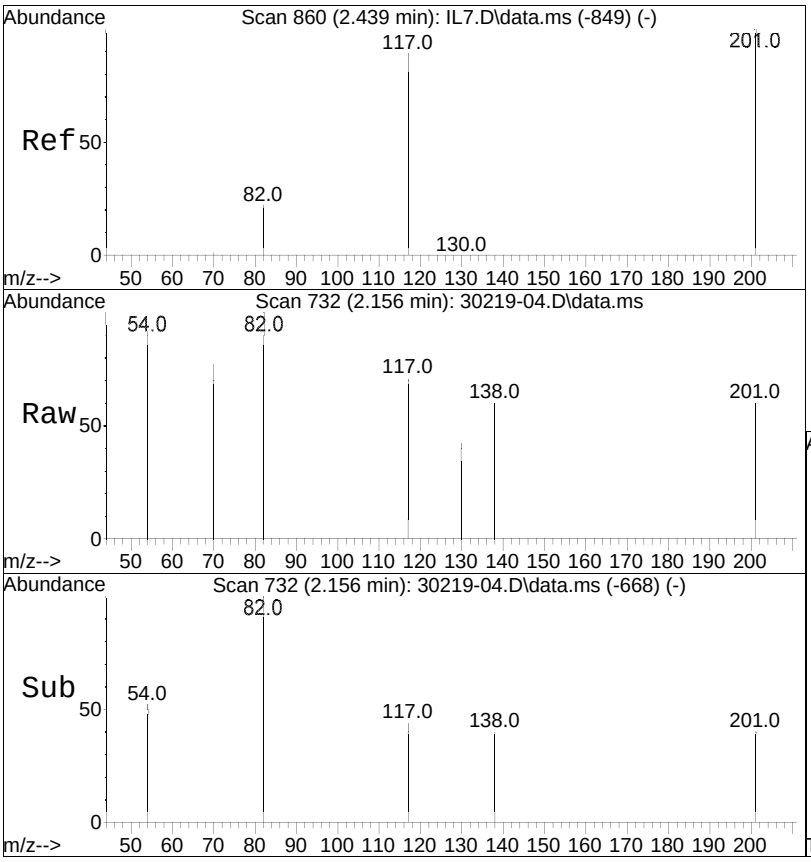
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 30219-04.D
Acq On : 04 Jun 2024 11:53 am
Operator : sv119:jjw
Sample : L2430219-04,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 06 11:17:32 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0604.D•

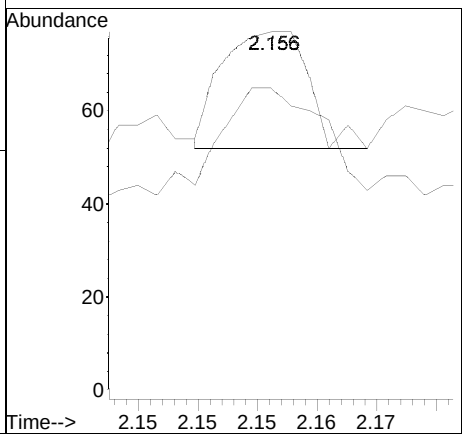


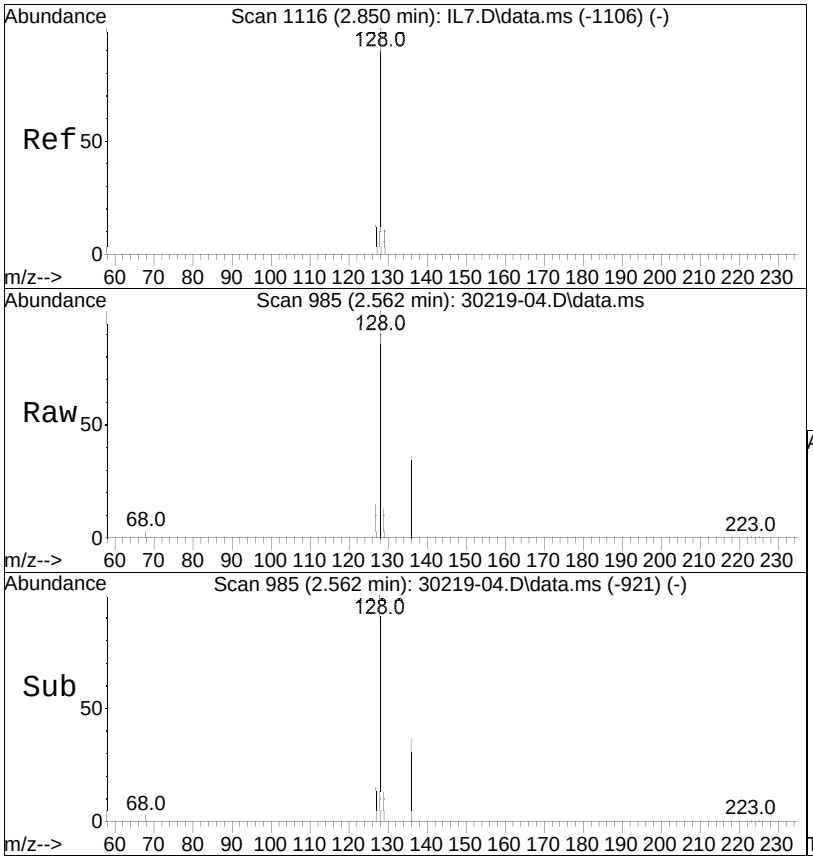


#6
Hexachloroethane
Concen: 2.20 ng/ml
RT: 2.156 min Scan# 732
Delta R.T. 0.003 min
Lab File: 30219-04.D
Acq: 04 Jun 2024 11:53 am

Tgt Ion:117 Resp: 13

Ion	Ratio	Lower	Upper
117	100		
201	100.0	81.5	122.3

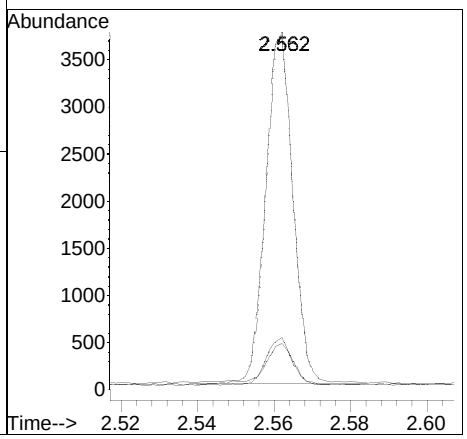


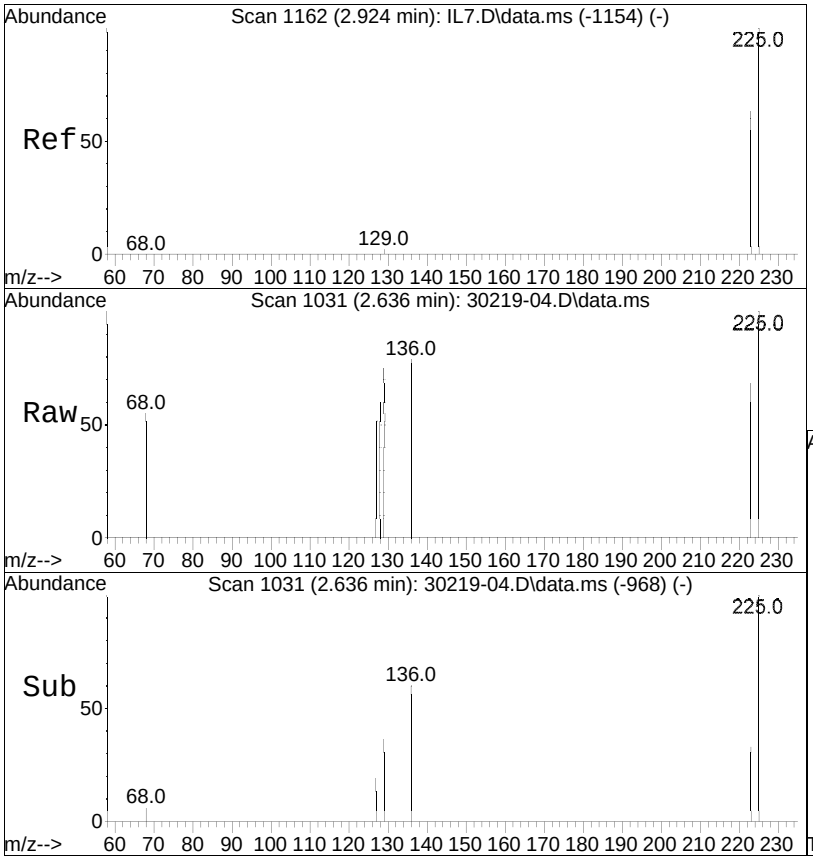


#9
Naphthalene
Concen: 48.18 ng/ml
RT: 2.562 min Scan# 985
Delta R.T. 0.003 min
Lab File: 30219-04.D
Acq: 04 Jun 2024 11:53 am

Tgt Ion:128 Resp: 1810

Ion	Ratio	Lower	Upper
128	100		
129	12.6	8.8	13.2
127	13.1	10.6	15.8

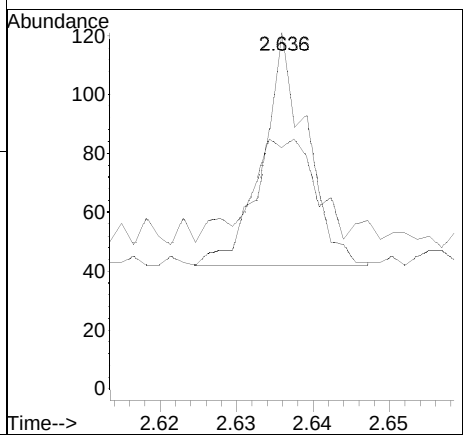


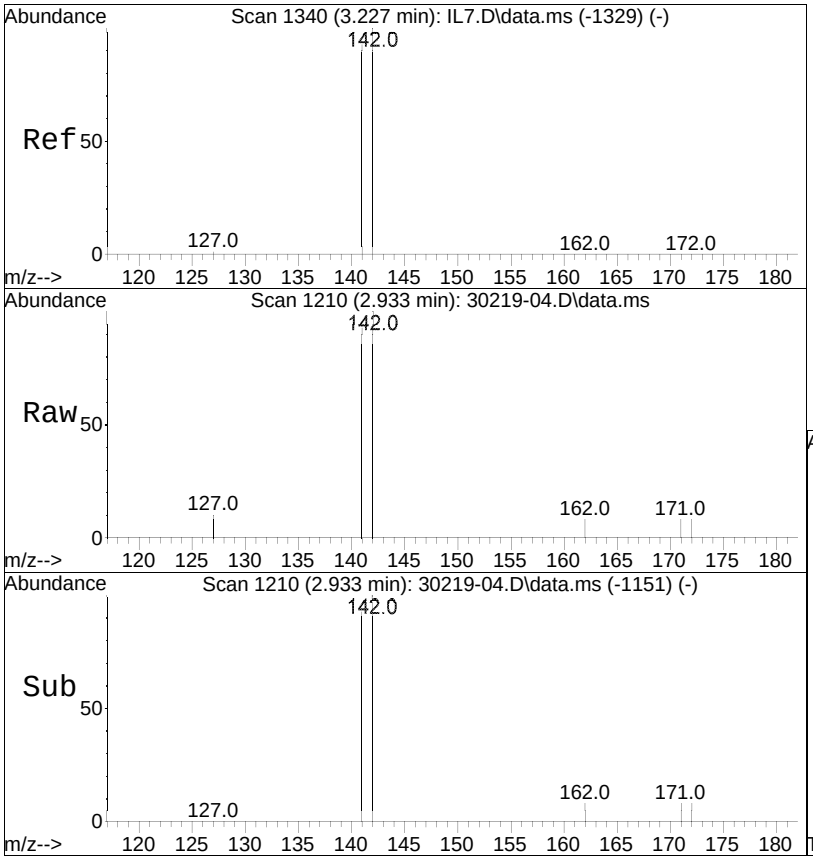


#10
Hexachlorobutadiene
Concen: 3.83 ng/ml M7
RT: 2.636 min Scan# 1031
Delta R.T. 0.002 min
Lab File: 30219-04.D
Acq: 04 Jun 2024 11:53 am

Tgt Ion:225 Resp: 31

Ion	Ratio	Lower	Upper
225	100		
223	64.5	50.1	75.1

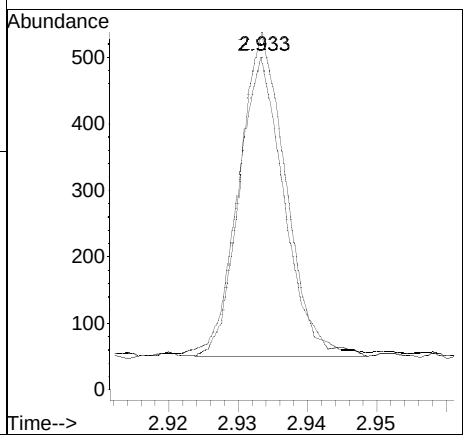


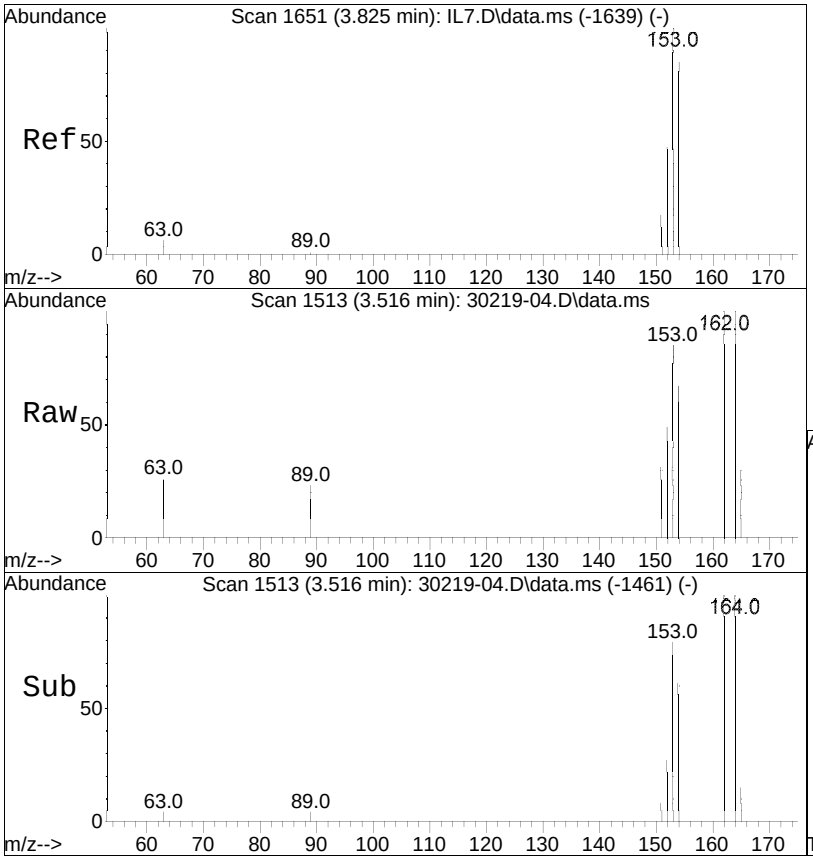


#11
2-Methylnaphthalene
Concen: 7.92 ng/ml M6
RT: 2.933 min Scan# 1210
Delta R.T. 0.004 min
Lab File: 30219-04.D
Acq: 04 Jun 2024 11:53 am

Tgt Ion:142 Resp: 220

Ion	Ratio	Lower	Upper
142	100		
141	98.2	74.1	111.1

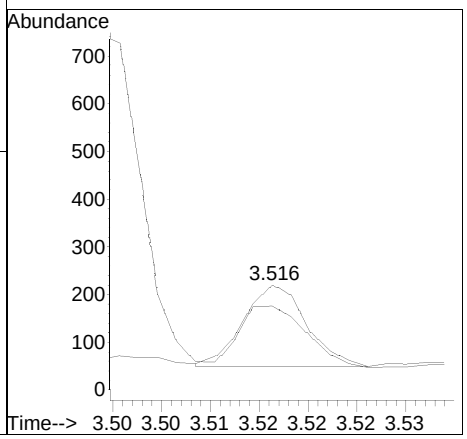


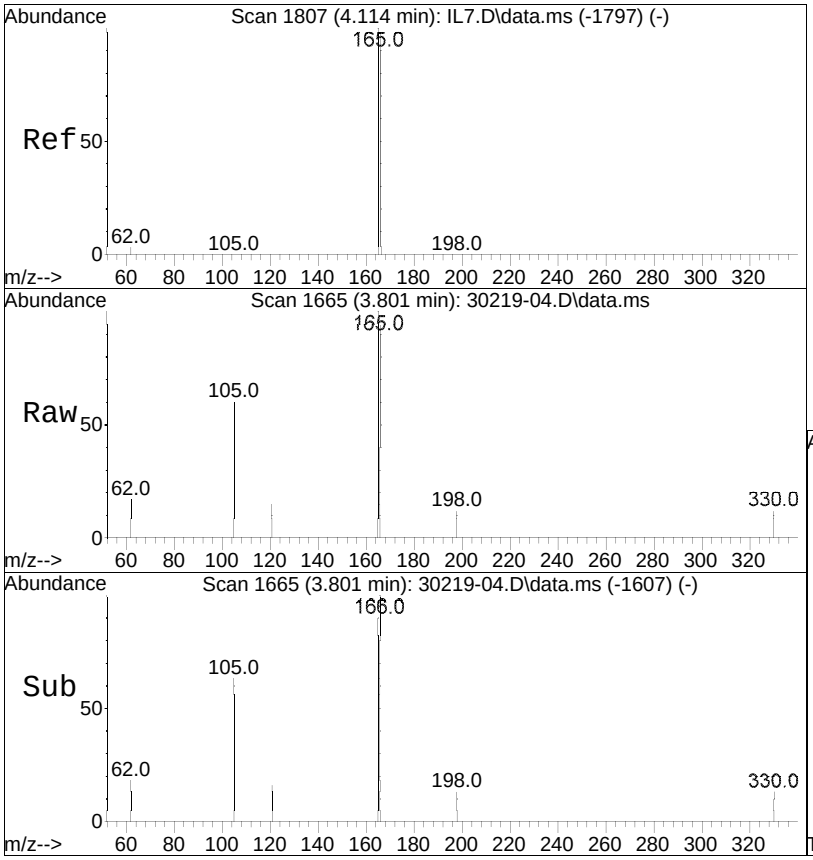


#18
Acenaphthene
Concen: 3.09 ng/ml
RT: 3.516 min Scan# 1513
Delta R.T. 0.002 min
Lab File: 30219-04.D
Acq: 04 Jun 2024 11:53 am

Tgt Ion:153 Resp: 77

Ion	Ratio	Lower	Upper
153	100		
154	79.2	66.9	100.3

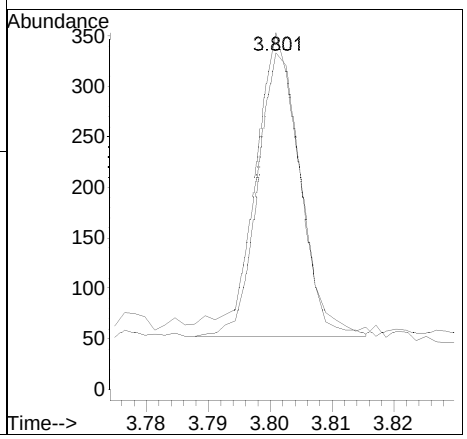


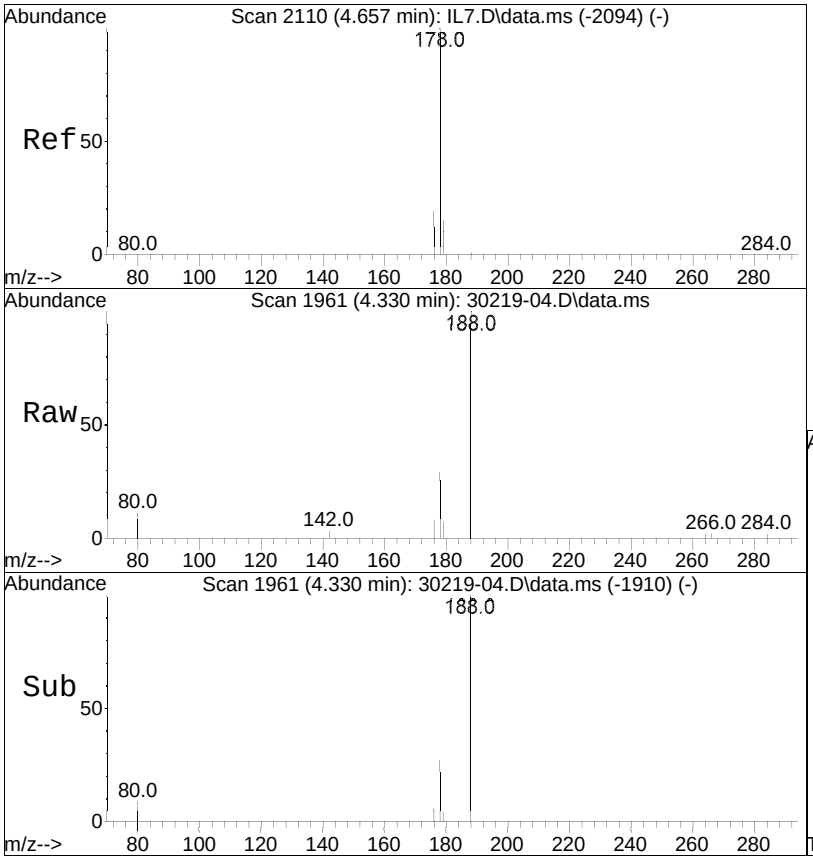


#20
Fluorene
Concen: 4.57 ng/ml M6
RT: 3.801 min Scan# 1665
Delta R.T. 0.000 min
Lab File: 30219-04.D
Acq: 04 Jun 2024 11:53 am

Tgt Ion:166 Resp: 136

Ion	Ratio	Lower	Upper
166	100		
165	113.2	82.9	124.3

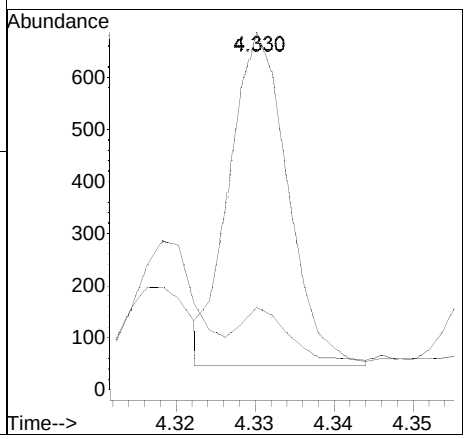


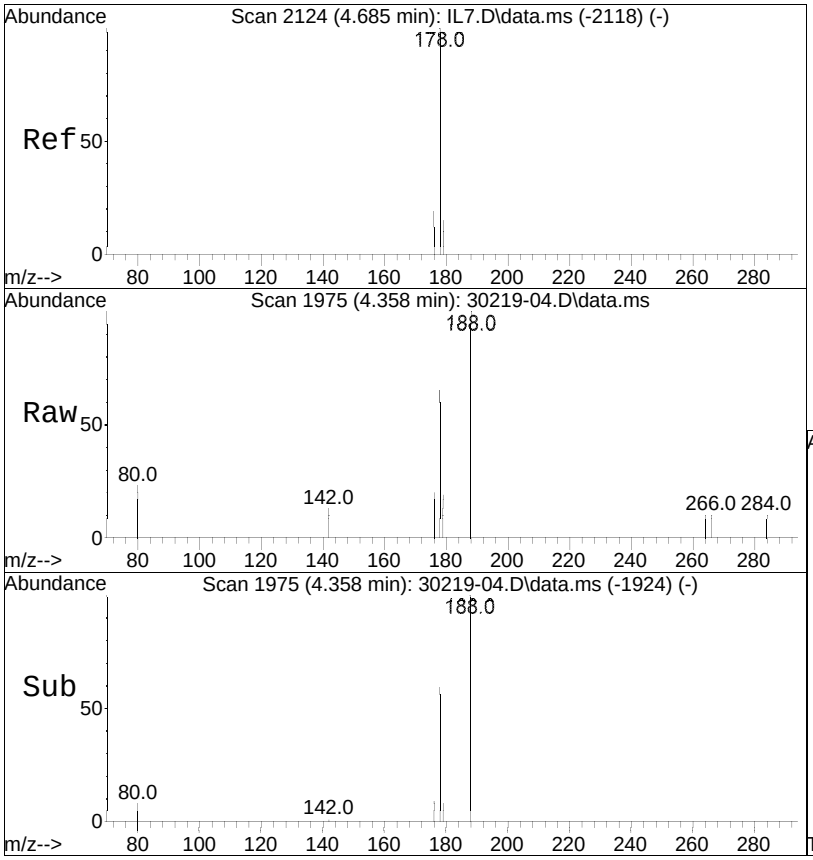


#26
Phenanthrene
Concen: 7.67 ng/ml M1
RT: 4.330 min Scan# 1961
Delta R.T. 0.000 min
Lab File: 30219-04.D
Acq: 04 Jun 2024 11:53 am

Tgt Ion:178 Resp: 326

Ion	Ratio	Lower	Upper
178	100		
179	15.0	12.3	18.5

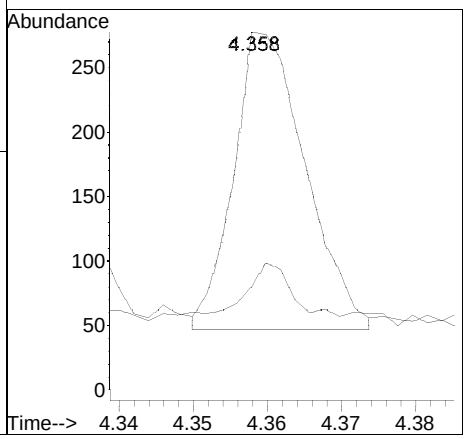


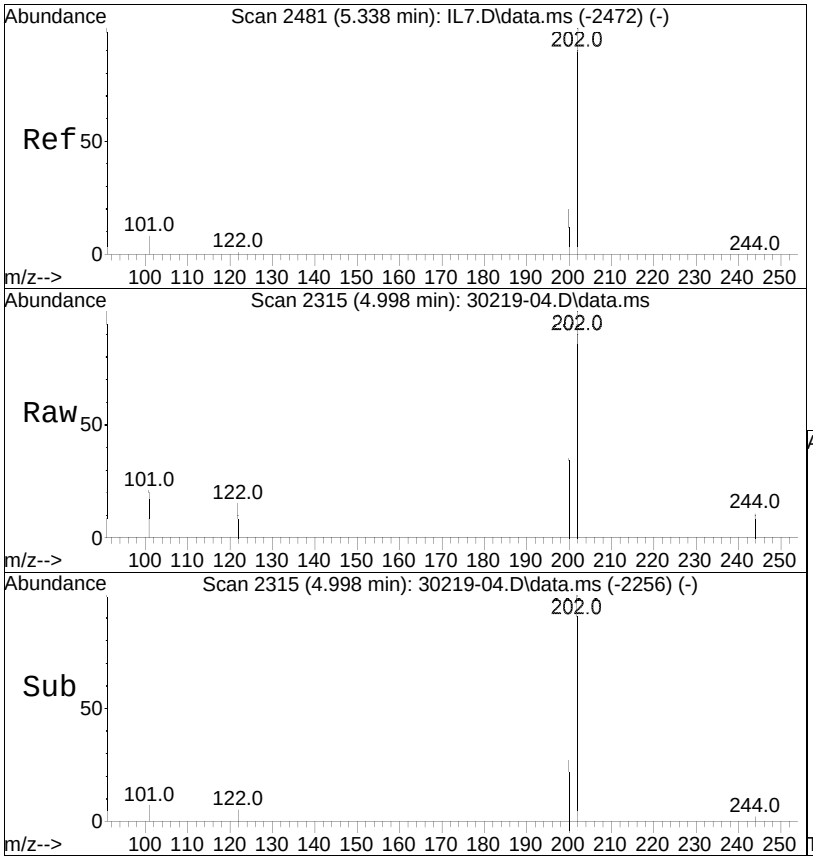


#27
Anthracene
Concen: 3.65 ng/ml M4
RT: 4.358 min Scan# 1975
Delta R.T. 0.000 min
Lab File: 30219-04.D
Acq: 04 Jun 2024 11:53 am

Tgt Ion:178 Resp: 154

Ion	Ratio	Lower	Upper
178	100		
179	20.8	12.2	18.4#

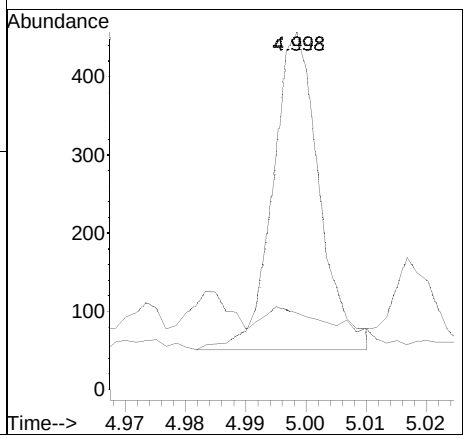


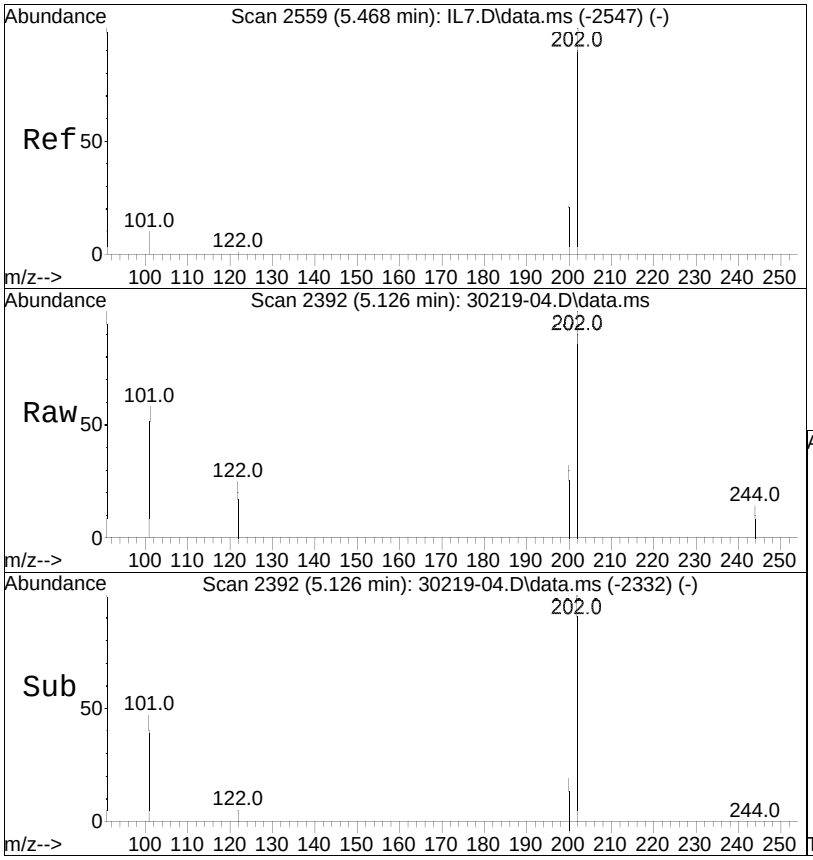


#28
Fluoranthene
Concen: 3.85 ng/ml M6
RT: 4.998 min Scan# 2315
Delta R.T. -0.001 min
Lab File: 30219-04.D
Acq: 04 Jun 2024 11:53 am

Tgt Ion:202 Resp: 216

Ion	Ratio	Lower	Upper
202	100		
101	19.0	8.3	12.5#

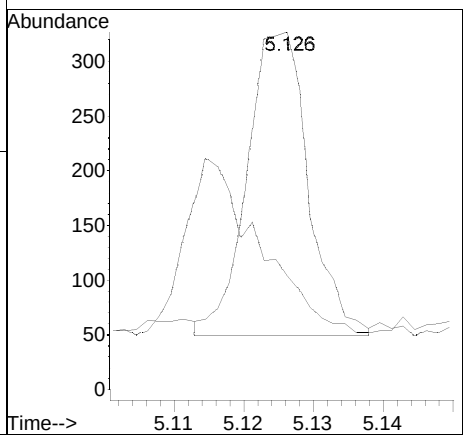




#29
Pyrene
Concen: 2.94 ng/ml M6
RT: 5.126 min Scan# 2392
Delta R.T. 0.000 min
Lab File: 30219-04.D
Acq: 04 Jun 2024 11:53 am

Tgt Ion:202 Resp: 169

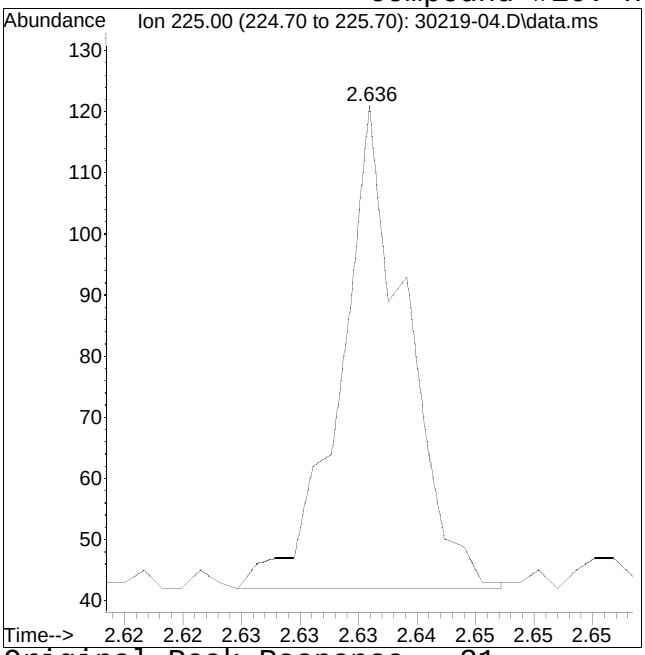
Ion	Ratio	Lower	Upper
202	100		
200	25.4	17.3	25.9



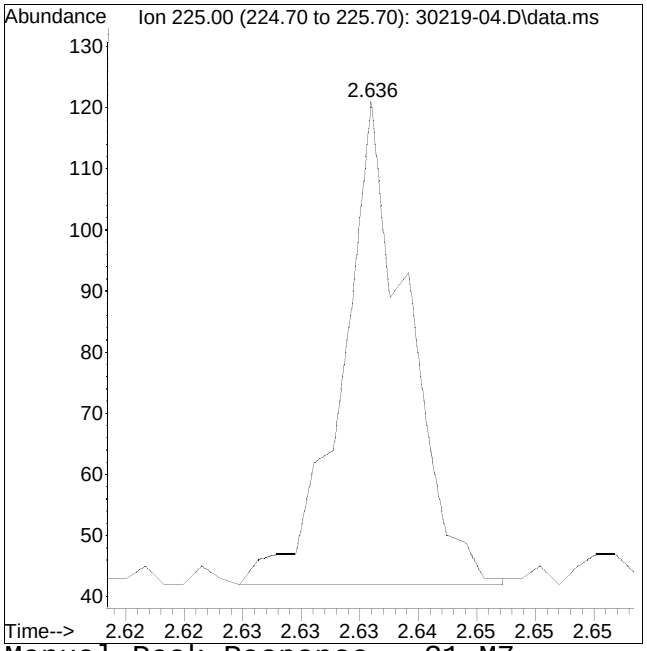
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-04.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 11:53 am Instrument : SV119
Sample : L2430219-04,32,,ah Quant Date : 6/4/2024 12:08 pm

Compound #10: Hexachlorobutadiene



Original Peak Response = 31



Manual Peak Response = 31 M7

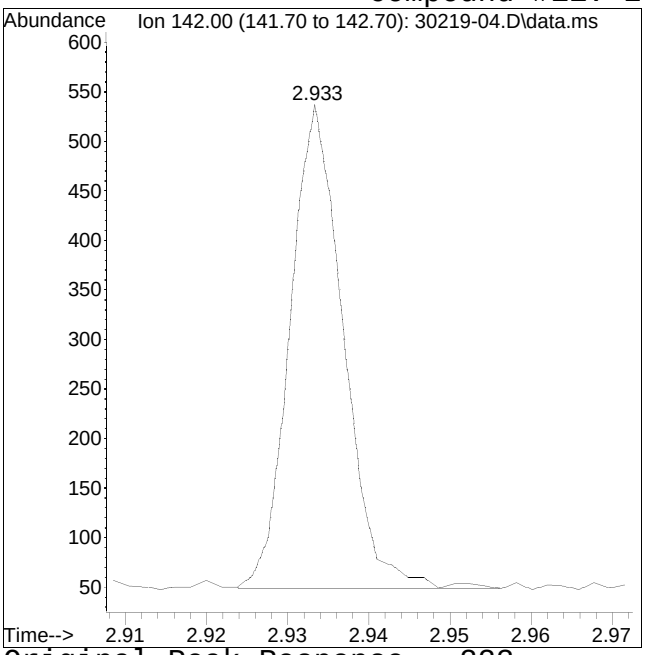
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

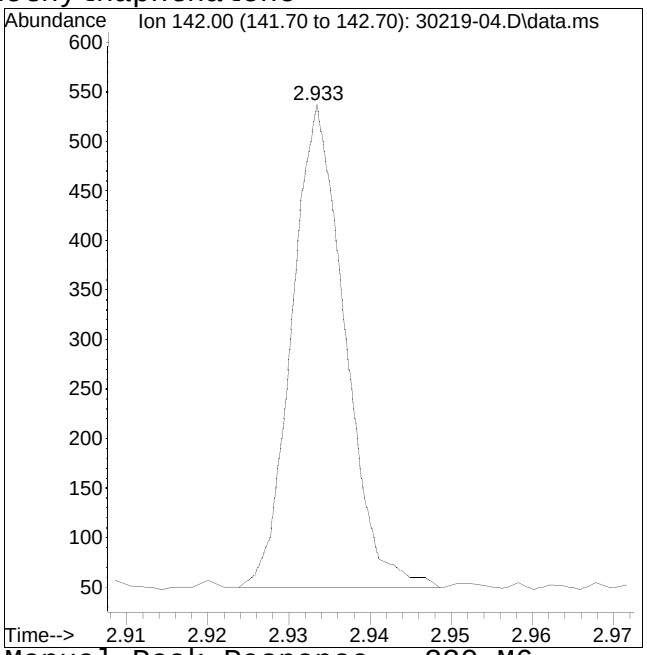
Data Path : I:\8270SIM\sv119\240604LVIQ
Data File : 30219-04.D
Date Inj'd : 6/4/2024 11:53 am
Sample : L2430219-04,32,,ah

Method : SIM-LVI_231207n_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 6/4/2024 12:08 pm

Compound #11: 2-Methylnaphthalene



Original Peak Response = 223



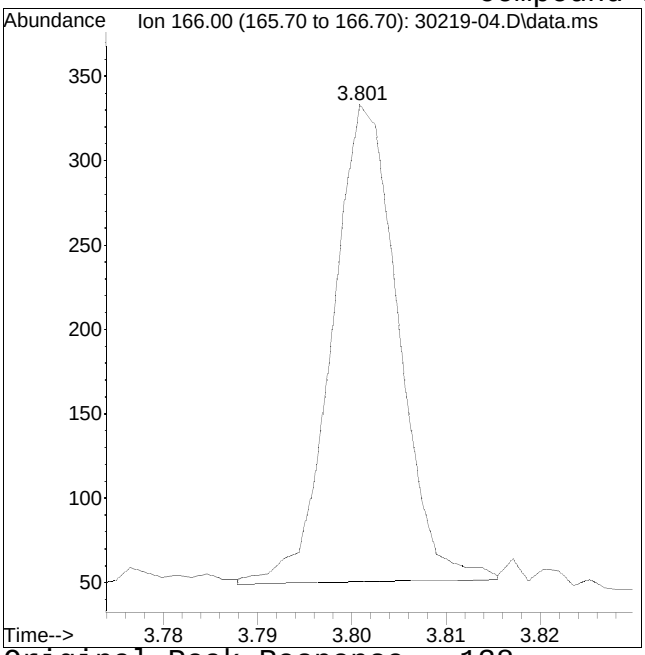
Manual Peak Response = 220 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

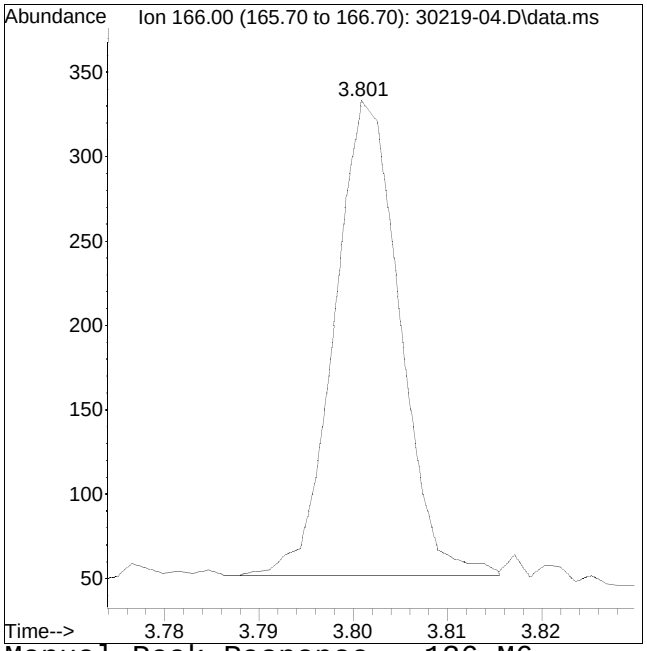
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-04.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 11:53 am Instrument : SV119
Sample : L2430219-04,32,,ah Quant Date : 6/4/2024 12:08 pm

Compound #20: Fluorene



Original Peak Response = 138



Manual Peak Response = 136 M6

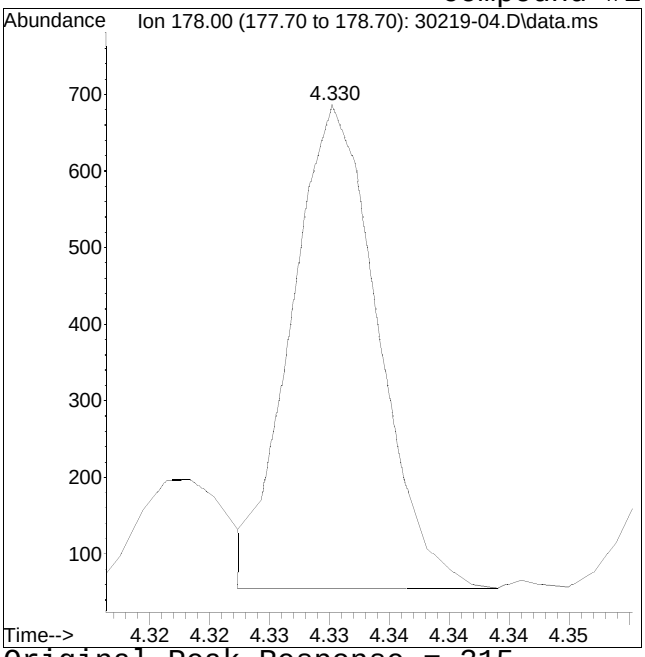
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

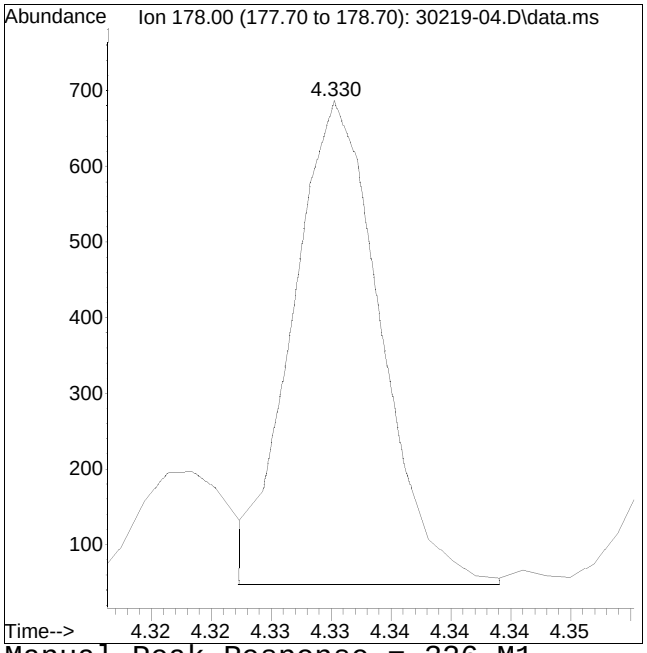
Data Path : I:\8270SIM\sv119\240604LVIQ
Data File : 30219-04.D
Date Inj'd : 6/4/2024 11:53 am
Sample : L2430219-04,32,,ah

Method : SIM-LVI_231207n_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 6/4/2024 12:08 pm

Compound #26: Phenanthrene



Original Peak Response = 315



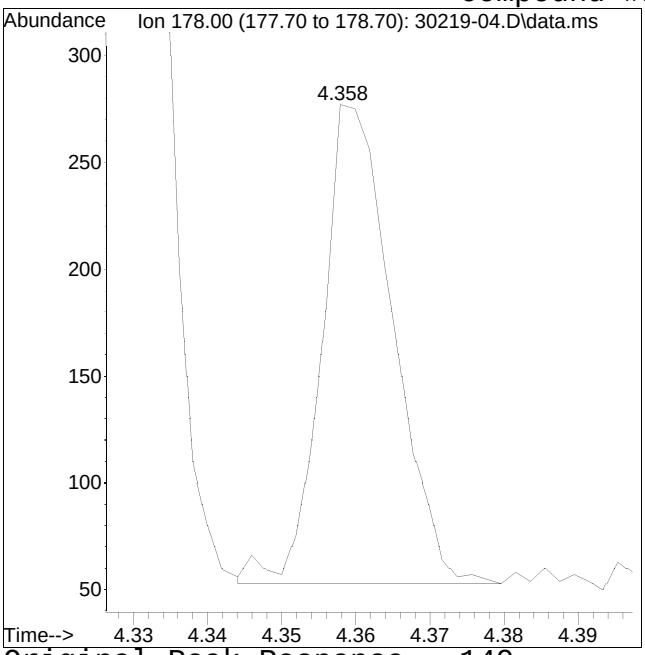
Manual Peak Response = 326 M1

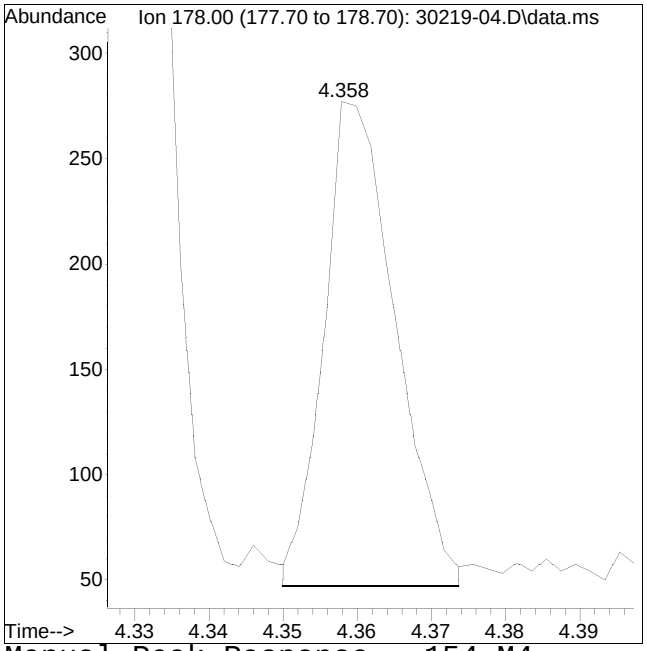
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-04.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 11:53 am Instrument : SV119
Sample : L2430219-04,32,,ah Quant Date : 6/4/2024 12:08 pm

Compound #27: Anthracene



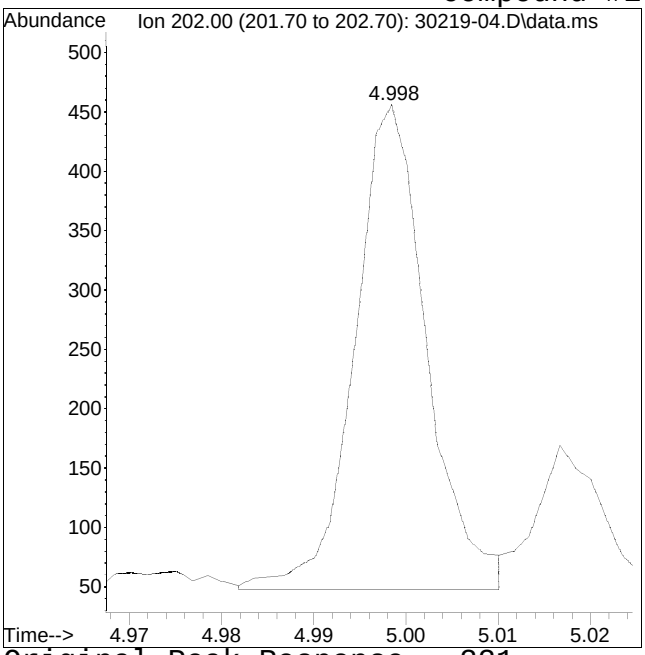


Original Peak Response = 149 Manual Peak Response = 154 M4
M4 = Poor automated baseline construction.

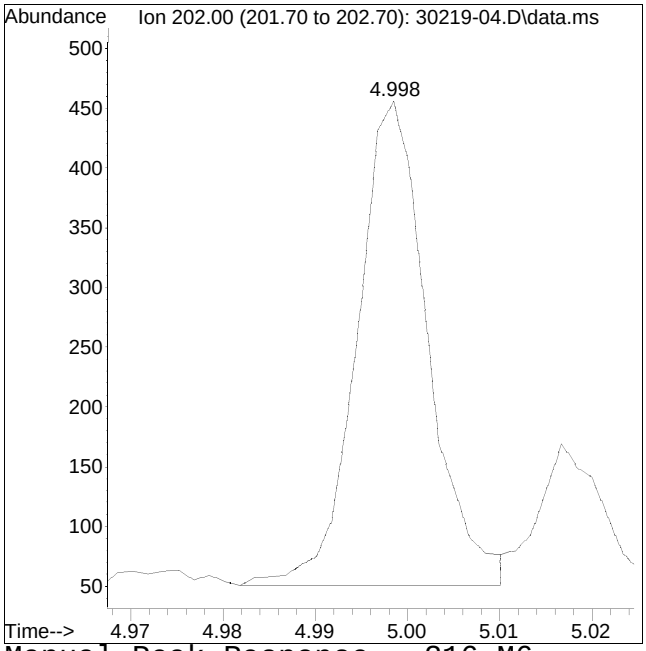
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-04.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 11:53 am Instrument : SV119
Sample : L2430219-04,32,,ah Quant Date : 6/4/2024 12:08 pm

Compound #28: Fluoranthene



Original Peak Response = 221



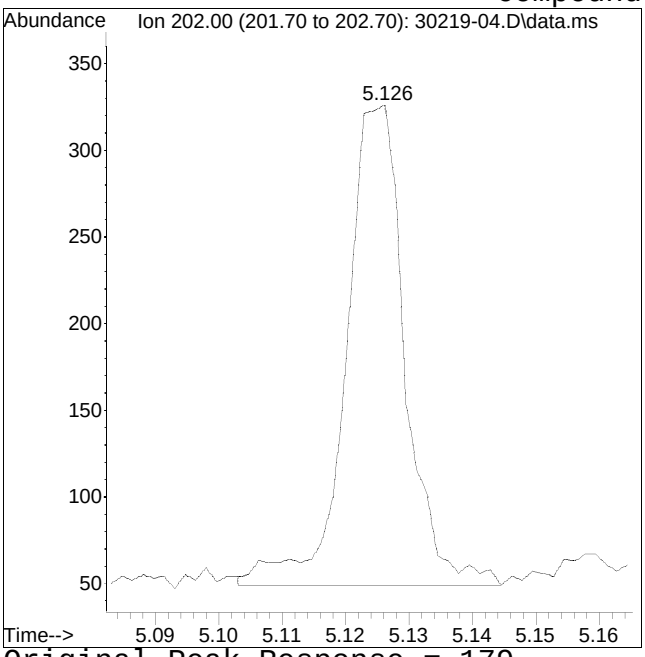
Manual Peak Response = 216 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

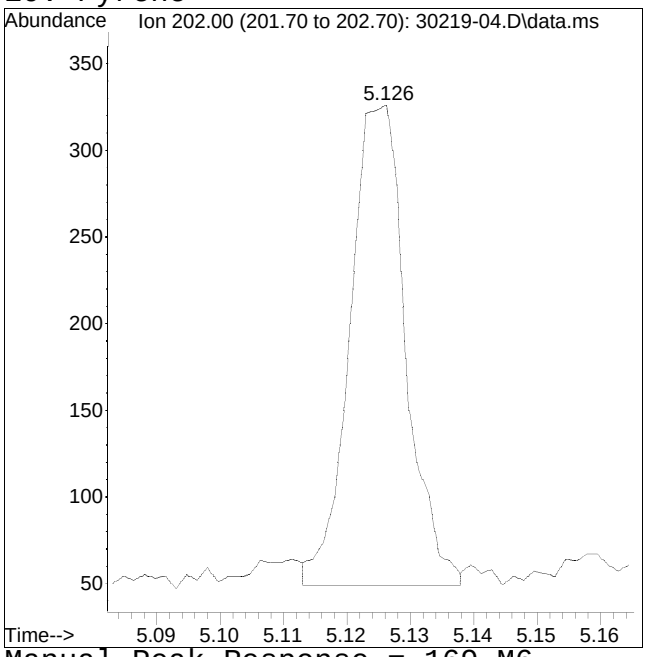
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-04.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 11:53 am Instrument : SV119
Sample : L2430219-04,32,,ah Quant Date : 6/4/2024 12:08 pm

Compound #29: Pyrene



Original Peak Response = 179



Manual Peak Response = 169 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 30219-01.D
Acq On : 04 Jun 2024 03:29 pm
Operator : sv119:jjw
Sample : L2430219-01,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 06 11:07:33 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240604LVI\ccv0604.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.905	152	43899	4000.000	ng/ml	0.00
Standard Area 1 = 56492			Recovery = 77.71%			
8) Naphthalene-d8	2.549	136	149346	4000.000	ng/ml	0.00
Standard Area 1 = 186100			Recovery = 80.25%			
17) Acenaphthene-d10	3.498	164	79607	4000.000	ng/ml	0.00
Standard Area 1 = 98337			Recovery = 80.95%			
22) Phenanthrene-d10	4.318	188	161933	4000.000	ng/ml	0.00
Standard Area 1 = 215749			Recovery = 75.06%			
31) Chrysene-d12	5.846	240	144040	4000.000	ng/ml	0.00
Standard Area 1 = 188074			Recovery = 76.59%			
36) Perylene-d12	6.795	264	156503	4000.000	ng/ml	0.00
Standard Area 1 = 198758			Recovery = 78.74%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.339	112	44358	3694.312	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 73.89%			
3) Phenol-d6	1.740	99	46263	3214.307	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 64.29%			
7) Nitrobenzene-d5	2.181	82	28568	2616.701	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 104.67%			
13) 2-Fluorobiphenyl	3.135	172	69789	2092.327	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 83.69%			
21) 2,4,6-Tribromophenol	3.935	330	29625	6750.043	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 135.00%#			
30) 4-Terphenyl-d14	5.232	244	70005	1763.474	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 70.54%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	2.560	128	677M6	18.984	ng/ml	
10) Hexachlorobutadiene	2.634	225	50	6.511	ng/ml	98
11) 2-Methylnaphthalene	2.931	142	441	16.725	ng/ml	86
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	3.418	152	447M7	10.710	ng/ml	
18) Acenaphthene	3.516	153	1054	42.828	ng/ml	97
20) Fluorene	3.800	166	1034M6	35.150	ng/ml	
24) Hexachlorobenzene	0.000		0	N.D.	d	
25) Pentachlorophenol	4.223	266	371	66.965	ng/ml	97

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 30219-01.D
Acq On : 04 Jun 2024 03:29 pm
Operator : sv119:jjw
Sample : L2430219-01,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 06 11:07:33 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240604LVI\ccv0604.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.330	178	1099M6	26.718	ng/ml	
27) Anthracene	4.357	178	918M4	22.505	ng/ml	
28) Fluoranthene	5.000	202	660M1	12.174	ng/ml	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	6.515	252	137M4	2.506	ng/ml	
38) Benzo[k]fluoranthene	6.531	252	123	2.369	ng/ml	98
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

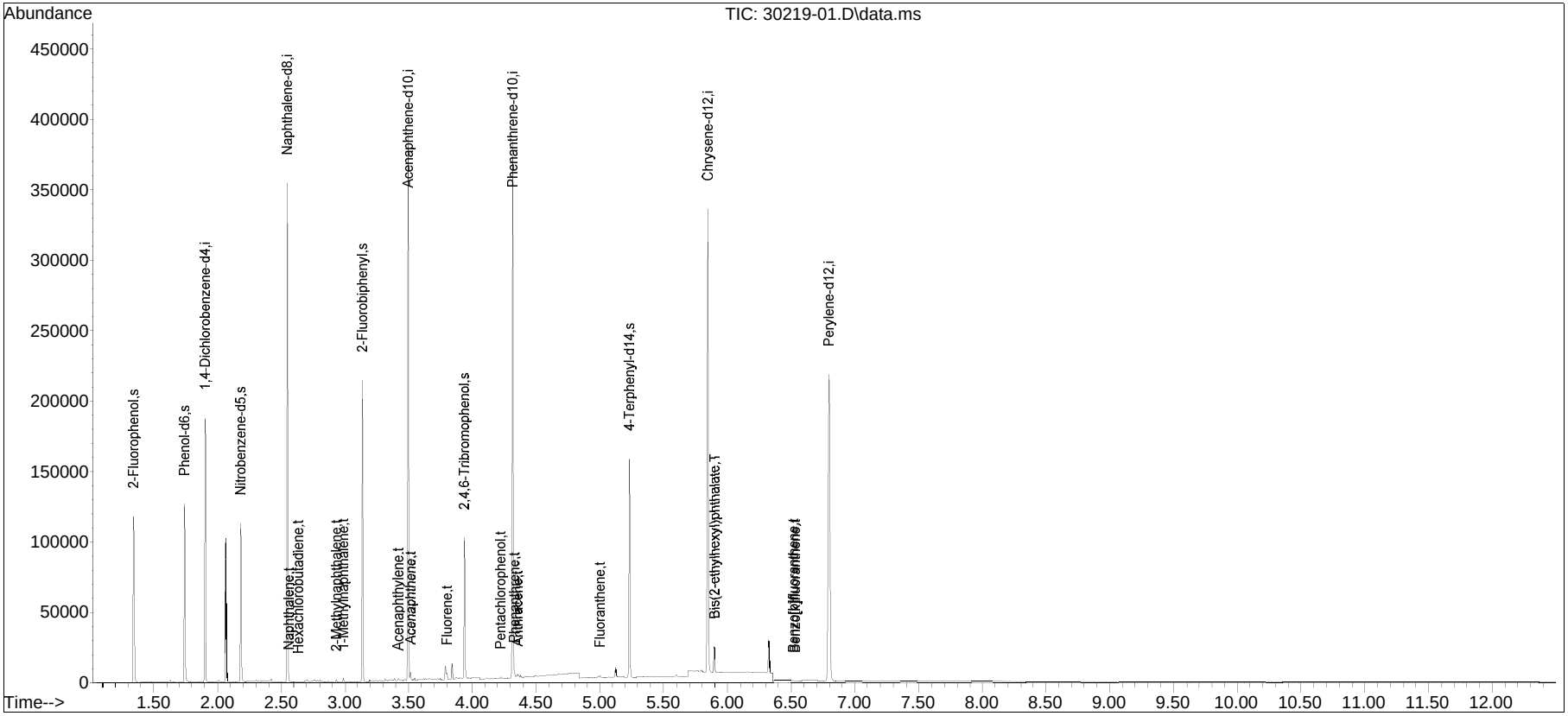
(#) = qualifier out of range (m) = manual integration (+) = signals summed

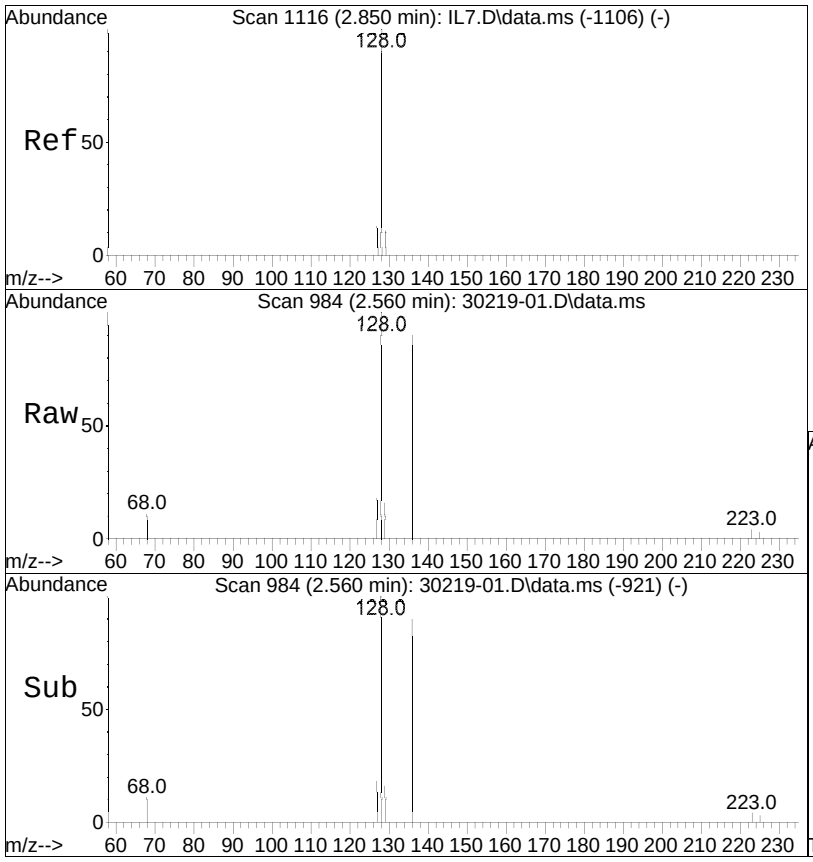
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 30219-01.D
Acq On : 04 Jun 2024 03:29 pm
Operator : sv119:jjw
Sample : L2430219-01,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 06 11:07:33 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0604.D•

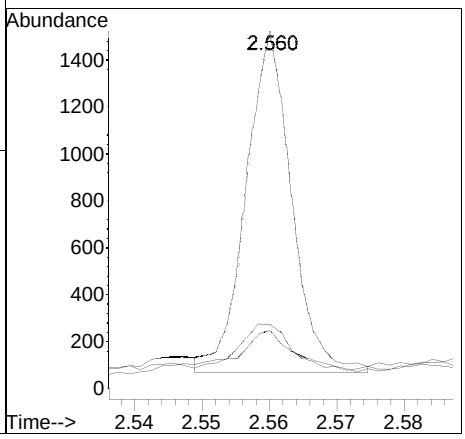


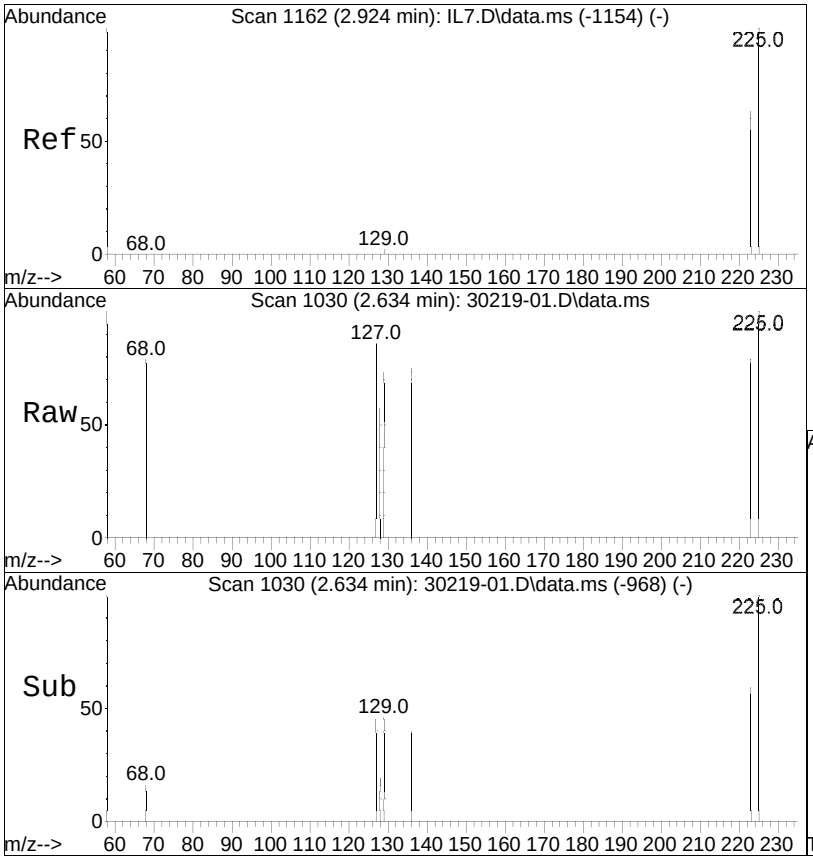


#9
Naphthalene
Concen: 18.98 ng/ml M6
RT: 2.560 min Scan# 984
Delta R.T. 0.001 min
Lab File: 30219-01.D
Acq: 04 Jun 2024 03:29 pm

Tgt Ion:128 Resp: 677

Ion	Ratio	Lower	Upper
128	100		
129	18.8	8.8	13.2#
127	15.5	10.6	15.8

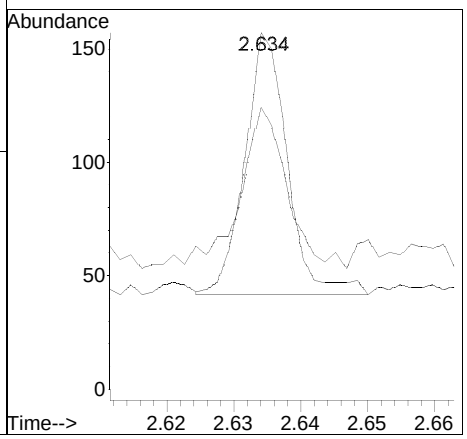


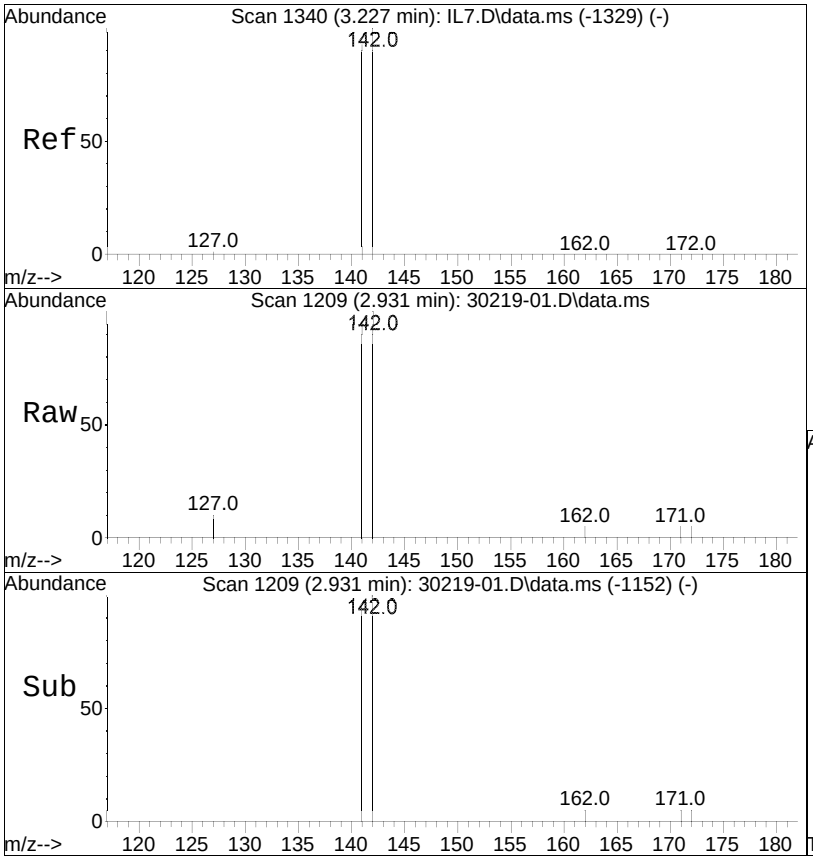


#10
Hexachlorobutadiene
Concen: 6.51 ng/ml
RT: 2.634 min Scan# 1030
Delta R.T. -0.000 min
Lab File: 30219-01.D
Acq: 04 Jun 2024 03:29 pm

Tgt Ion:225 Resp: 50

Ion	Ratio	Lower	Upper
225	100		
223	64.0	50.1	75.1

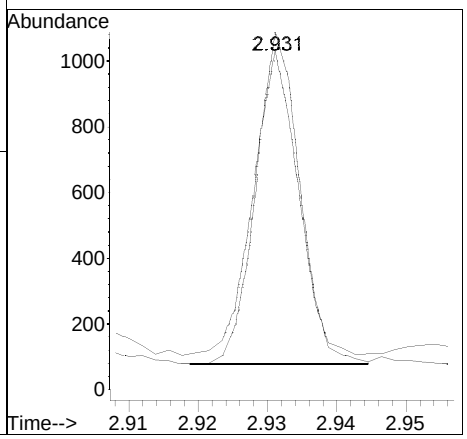


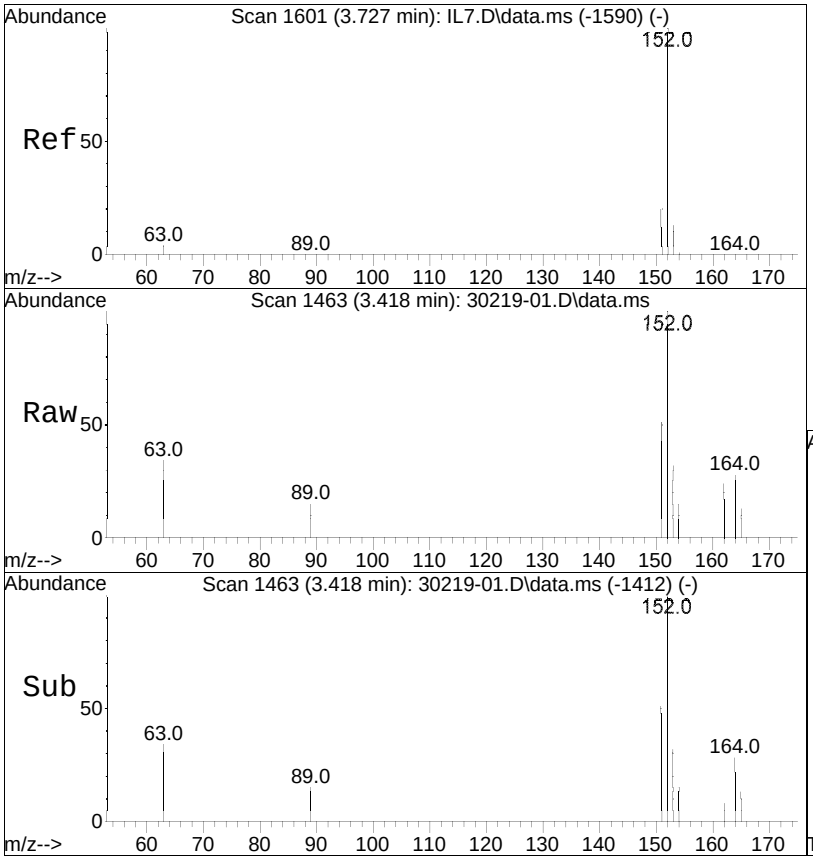


#11
2-Methylnaphthalene
Concen: 16.73 ng/ml
RT: 2.931 min Scan# 1209
Delta R.T. 0.002 min
Lab File: 30219-01.D
Acq: 04 Jun 2024 03:29 pm

Tgt Ion:142 Resp: 441

Ion	Ratio	Lower	Upper
142	100		
141	105.7	74.1	111.1

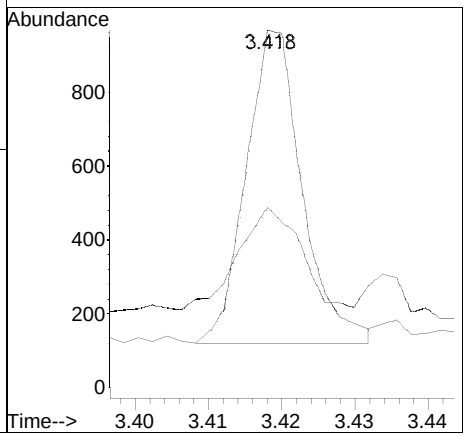


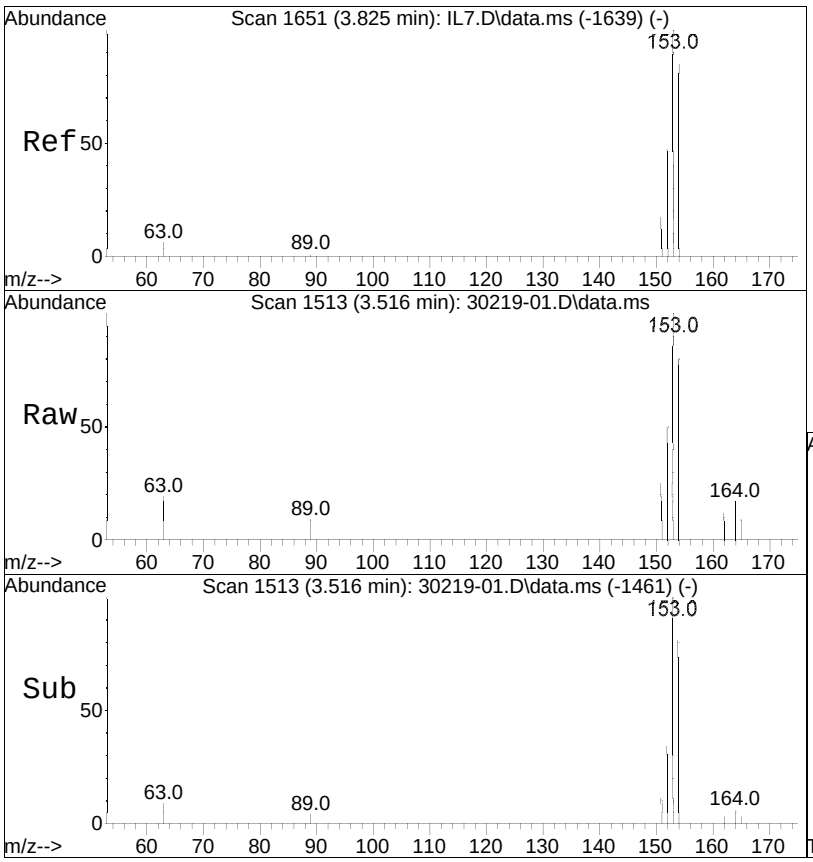


#16
Acenaphthylene
Concen: 10.71 ng/ml M7
RT: 3.418 min Scan# 1463
Delta R.T. -0.000 min
Lab File: 30219-01.D
Acq: 04 Jun 2024 03:29 pm

Tgt Ion:152 Resp: 447

Ion	Ratio	Lower	Upper
152	100		
151	38.9	16.0	24.0#

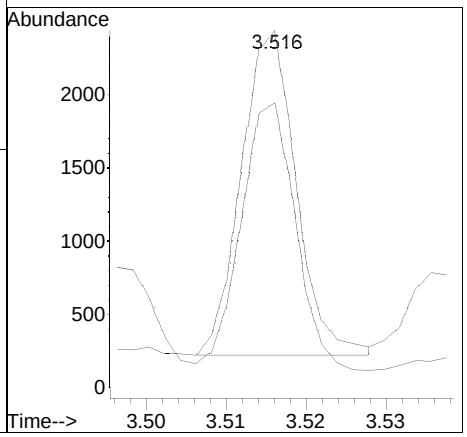


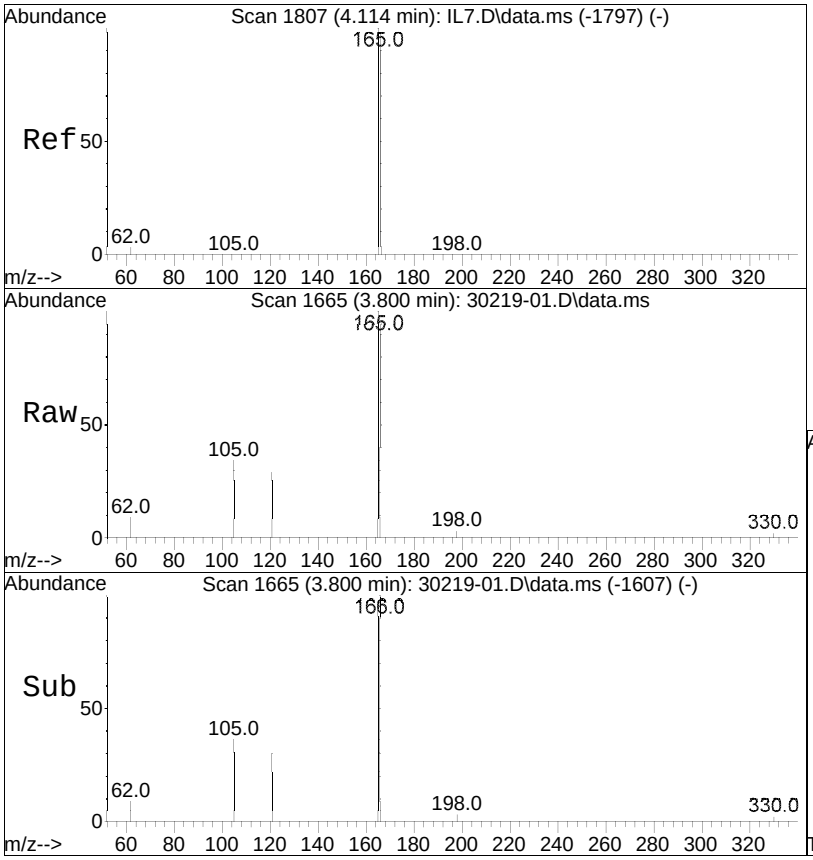


#18
Acenaphthene
Concen: 42.83 ng/ml
RT: 3.516 min Scan# 1513
Delta R.T. 0.002 min
Lab File: 30219-01.D
Acq: 04 Jun 2024 03:29 pm

Tgt Ion:153 Resp: 1054

Ion	Ratio	Lower	Upper
153	100		
154	81.2	66.9	100.3

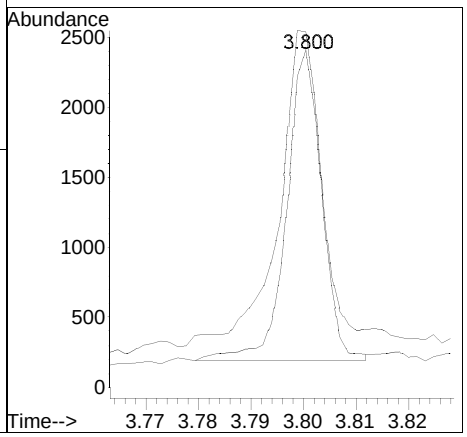


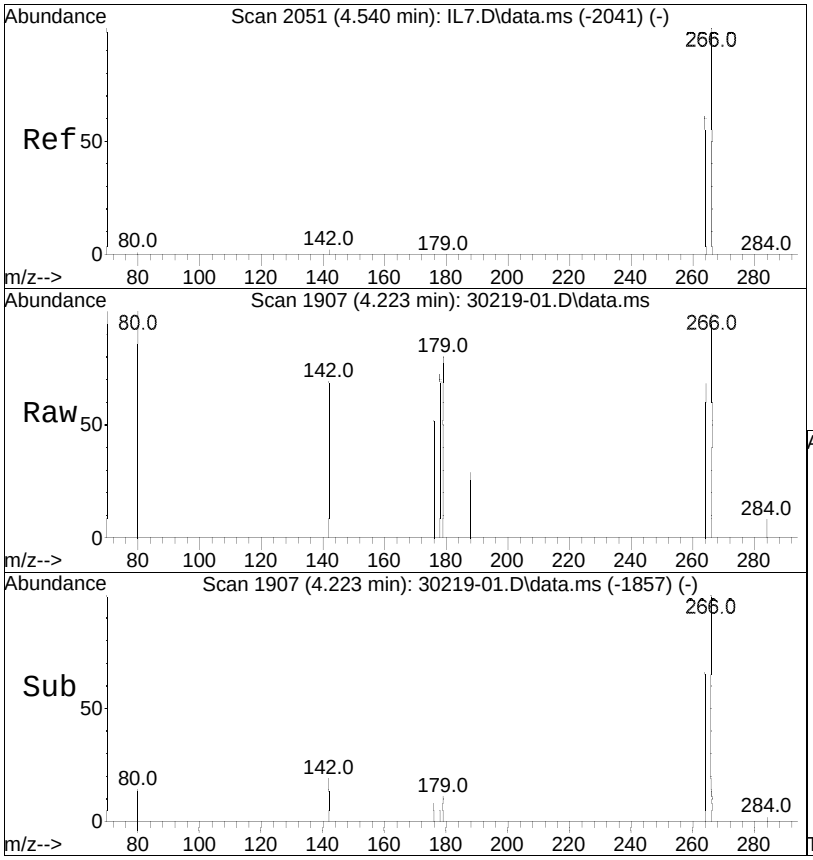


#20
Fluorene
Concen: 35.15 ng/ml M6
RT: 3.800 min Scan# 1665
Delta R.T. -0.000 min
Lab File: 30219-01.D
Acq: 04 Jun 2024 03:29 pm

Tgt Ion:166 Resp: 1034

Ion	Ratio	Lower	Upper
166	100		
165	114.7	82.9	124.3

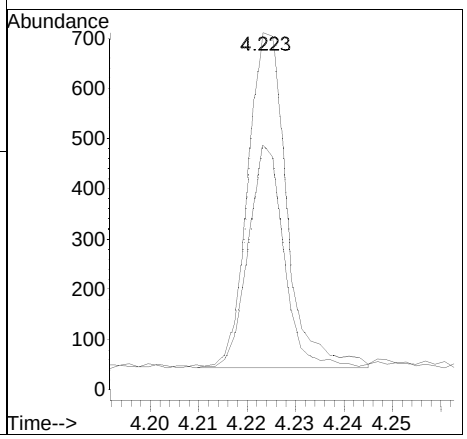


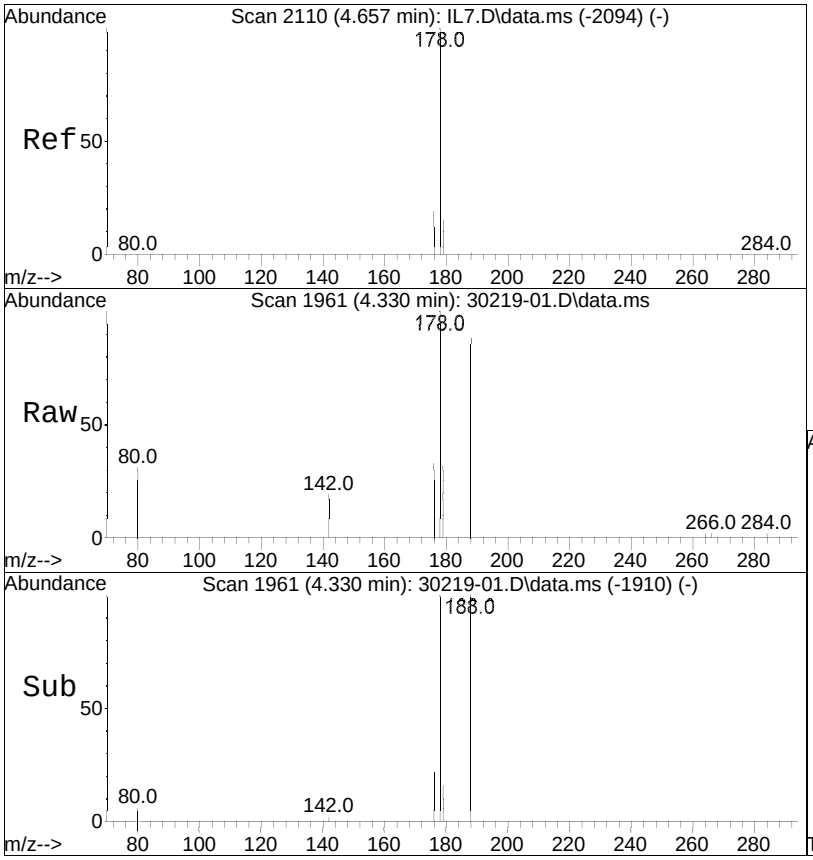


#25
Pentachlorophenol
Concen: 66.97 ng/ml
RT: 4.223 min Scan# 1907
Delta R.T. -0.002 min
Lab File: 30219-01.D
Acq: 04 Jun 2024 03:29 pm

Tgt Ion:266 Resp: 371

Ion	Ratio	Lower	Upper
266	100		
264	61.2	50.7	76.1

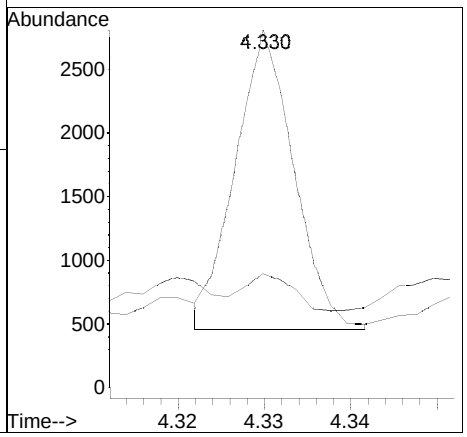


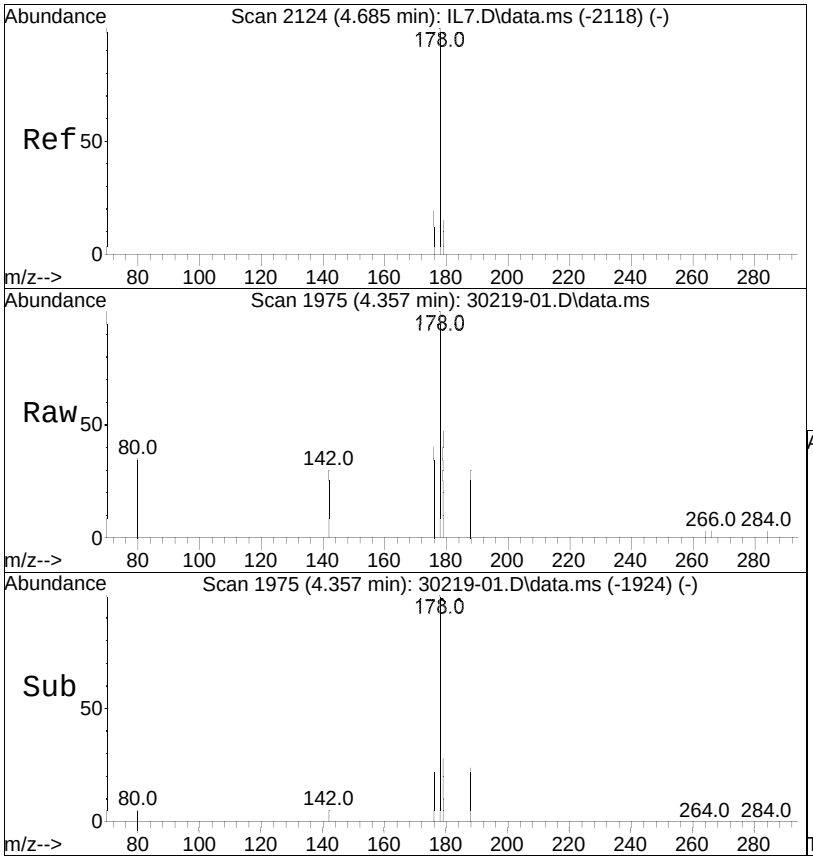


#26
Phenanthrene
Concen: 26.72 ng/ml M6
RT: 4.330 min Scan# 1961
Delta R.T. -0.000 min
Lab File: 30219-01.D
Acq: 04 Jun 2024 03:29 pm

Tgt Ion:178 Resp: 1099

Ion	Ratio	Lower	Upper
178	100		
179	12.9	12.3	18.5

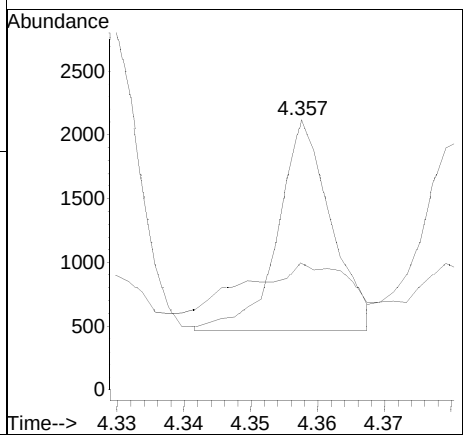


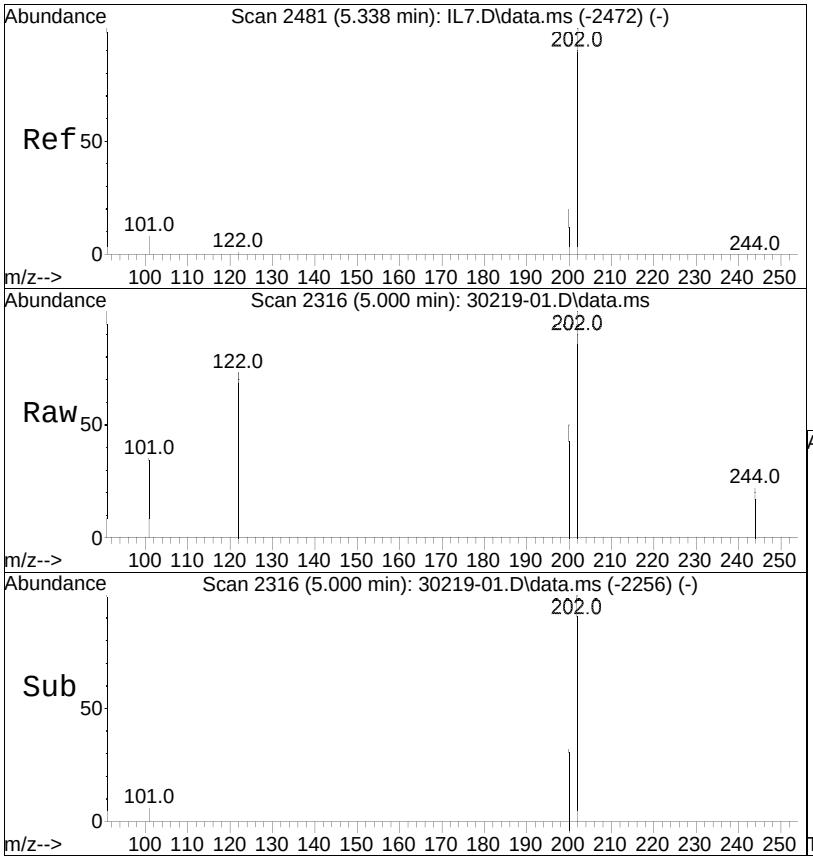


#27
Anthracene
Concen: 22.51 ng/ml M4
RT: 4.357 min Scan# 1975
Delta R.T. -0.000 min
Lab File: 30219-01.D
Acq: 04 Jun 2024 03:29 pm

Tgt Ion:178 Resp: 918

Ion	Ratio	Lower	Upper
178	100		
179	29.4	12.2	18.4#

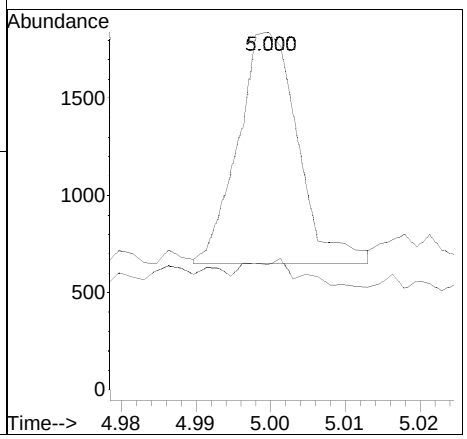


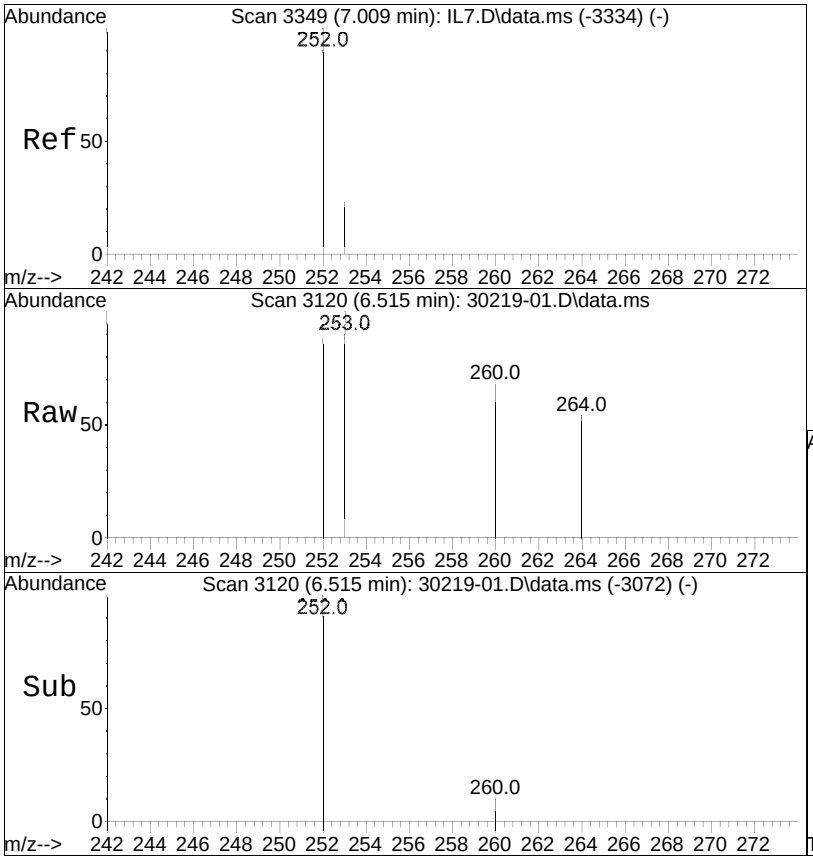


#28
Fluoranthene
Concen: 12.17 ng/ml M1
RT: 5.000 min Scan# 2316
Delta R.T. -0.000 min
Lab File: 30219-01.D
Acq: 04 Jun 2024 03:29 pm

Tgt Ion:202 Resp: 660

Ion	Ratio	Lower	Upper
202	100		
101	10.3	8.3	12.5

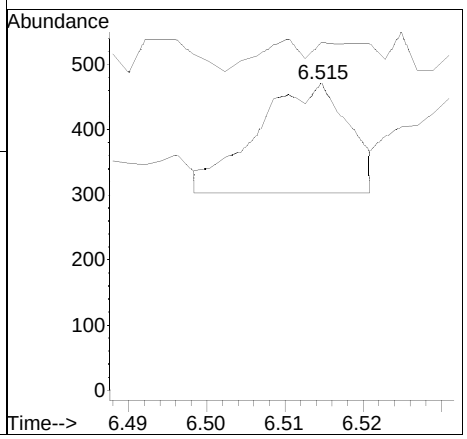


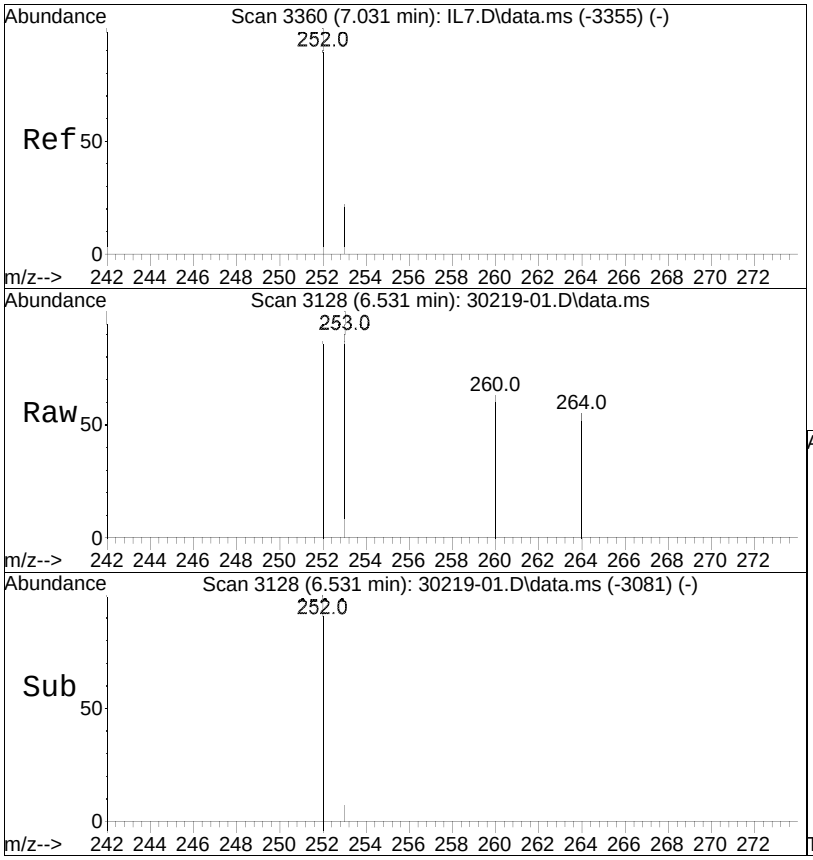


#37
Benzo[b]fluoranthene
Concen: 2.51 ng/ml M4
RT: 6.515 min Scan# 3120
Delta R.T. -0.002 min
Lab File: 30219-01.D
Acq: 04 Jun 2024 03:29 pm

Tgt Ion:252 Resp: 137

Ion	Ratio	Lower	Upper
252	100		
253	18.2	17.3	25.9

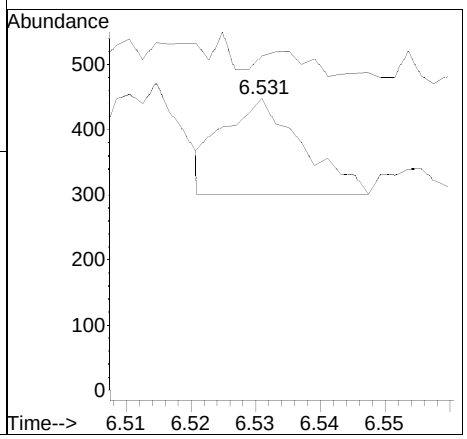




#38
Benzo[k]fluoranthene
Concen: 2.37 ng/ml
RT: 6.531 min Scan# 3128
Delta R.T. -0.004 min
Lab File: 30219-01.D
Acq: 04 Jun 2024 03:29 pm

Tgt Ion:252 Resp: 123

Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.4	26.2

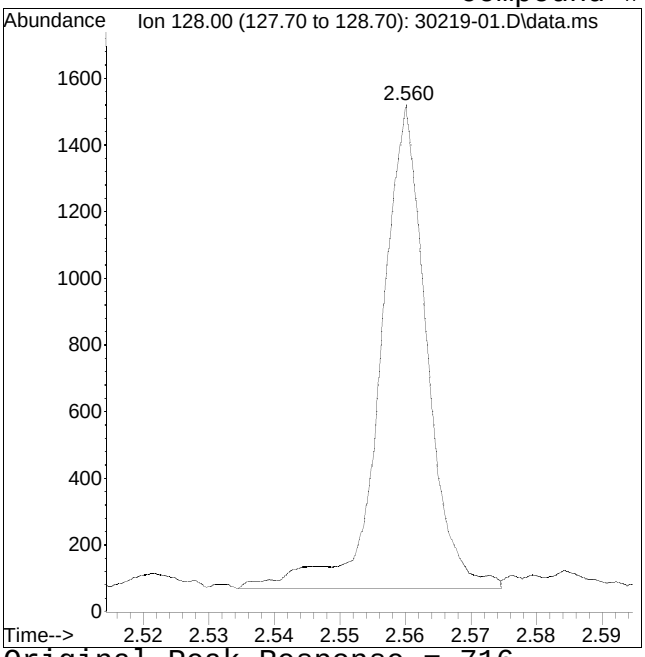


Manual Integration Report

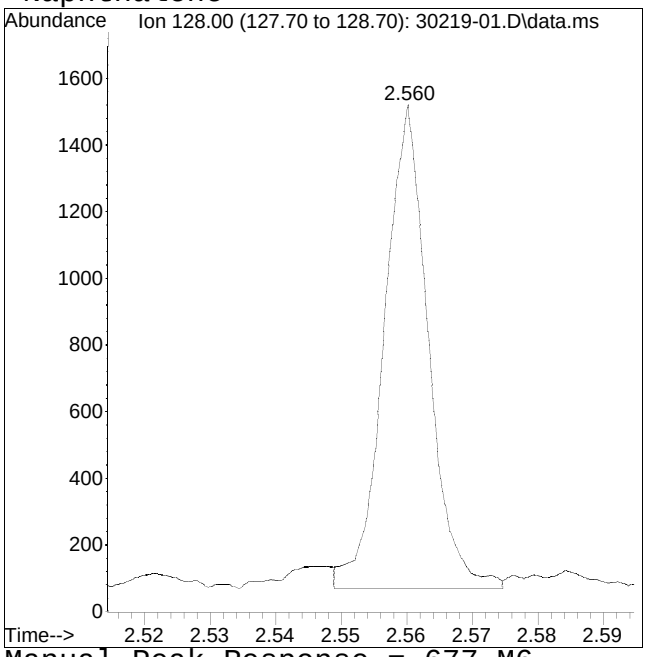
Data Path : I:\8270SIM\sv119\240604LVIQ
Data File : 30219-01.D
Date Inj'd : 6/4/2024 3:29 pm
Sample : L2430219-01,32,,ah

Method : SIM-LVI_231207n_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 6/4/2024 3:43 pm

Compound #9: Naphthalene



Original Peak Response = 716



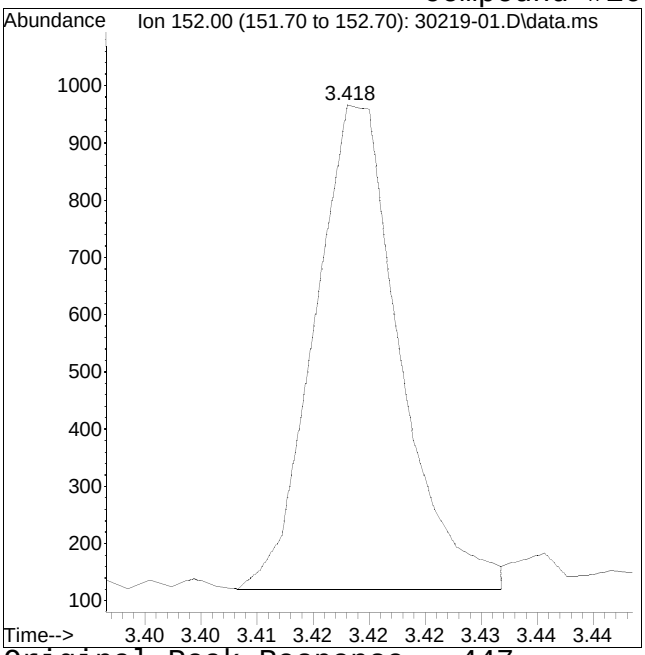
Manual Peak Response = 677 M6

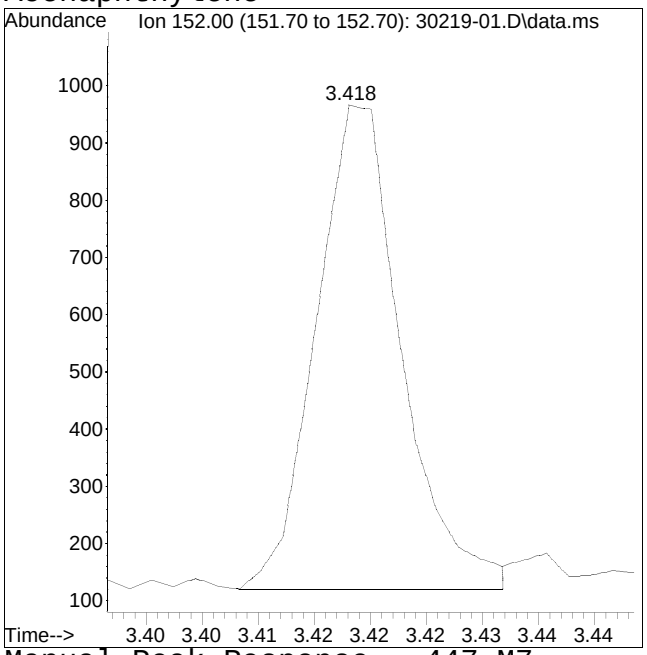
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-01.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 3:29 pm Instrument : SV119
Sample : L2430219-01,32,,ah Quant Date : 6/4/2024 3:43 pm

Compound #16: Acenaphthylene





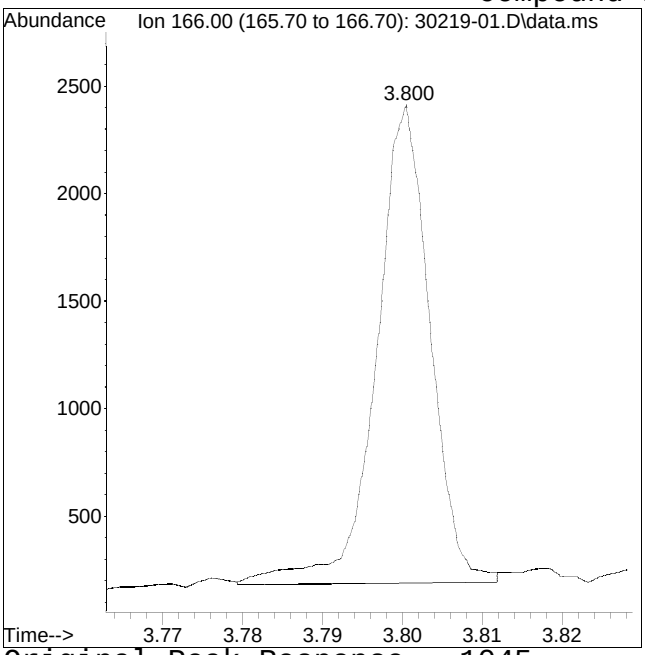
Original Peak Response = 447 Manual Peak Response = 447 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

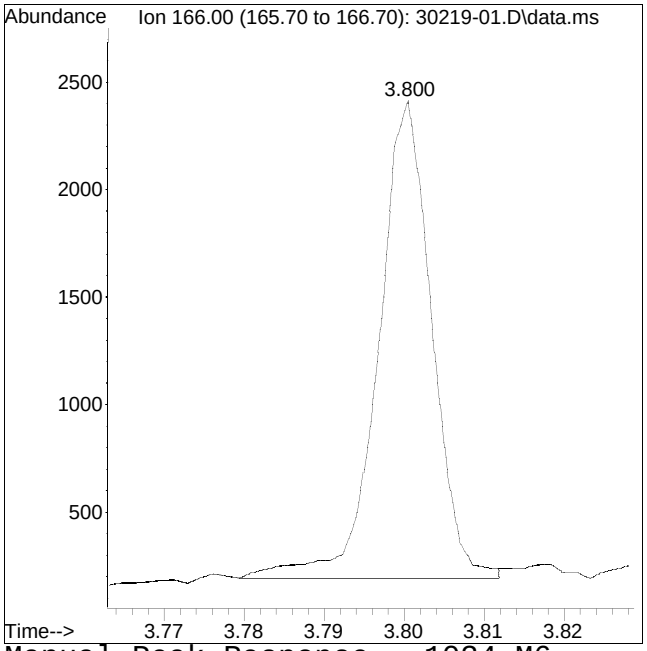
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-01.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 3:29 pm Instrument : SV119
Sample : L2430219-01,32,,ah Quant Date : 6/4/2024 3:43 pm

Compound #20: Fluorene



Original Peak Response = 1045



Manual Peak Response = 1034 M6

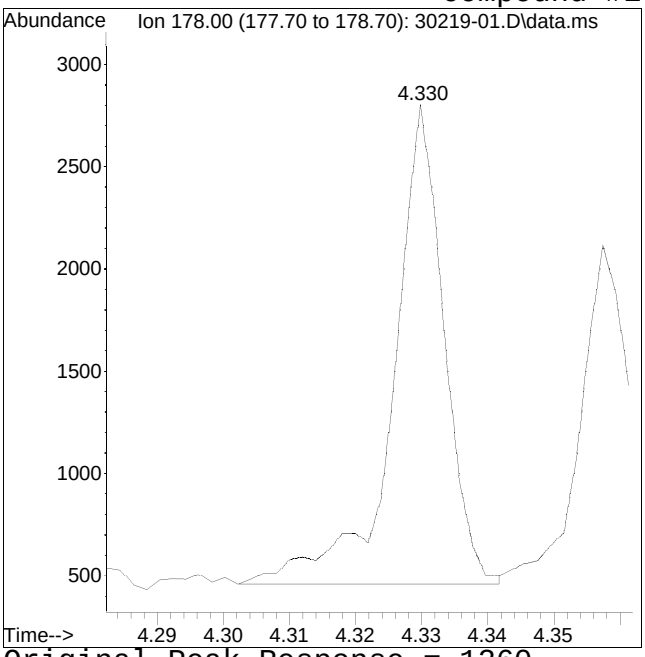
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

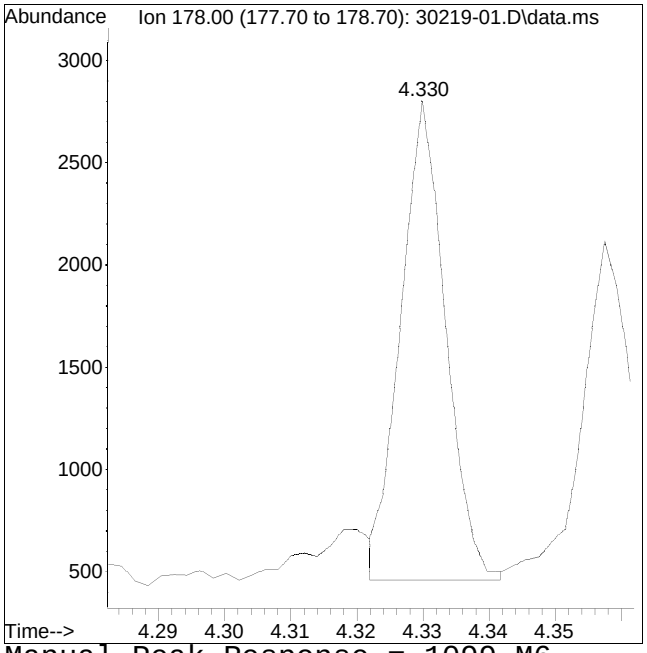
Data Path : I:\8270SIM\sv119\240604LVIQ
Data File : 30219-01.D
Date Inj'd : 6/4/2024 3:29 pm
Sample : L2430219-01,32,,ah

Method : SIM-LVI_231207n_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 6/4/2024 3:43 pm

Compound #26: Phenanthrene



Original Peak Response = 1260



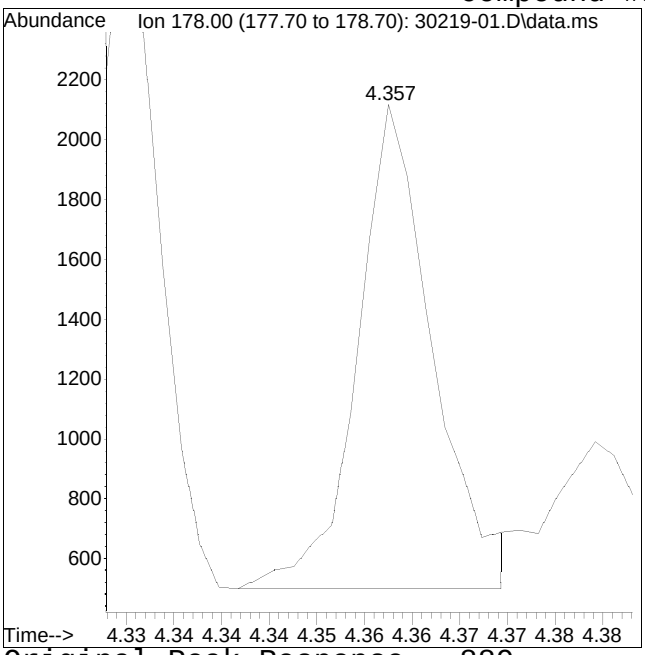
Manual Peak Response = 1099 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

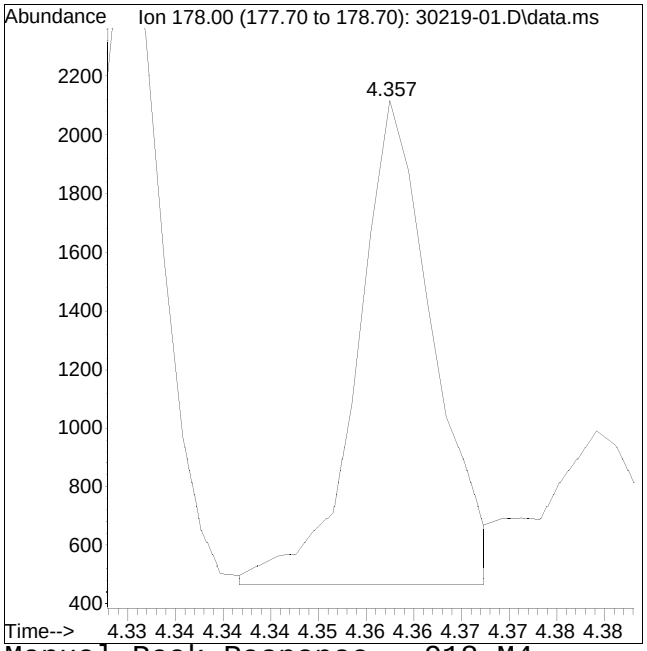
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-01.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 3:29 pm Instrument : SV119
Sample : L2430219-01,32,,ah Quant Date : 6/4/2024 3:43 pm

Compound #27: Anthracene



Original Peak Response = 889



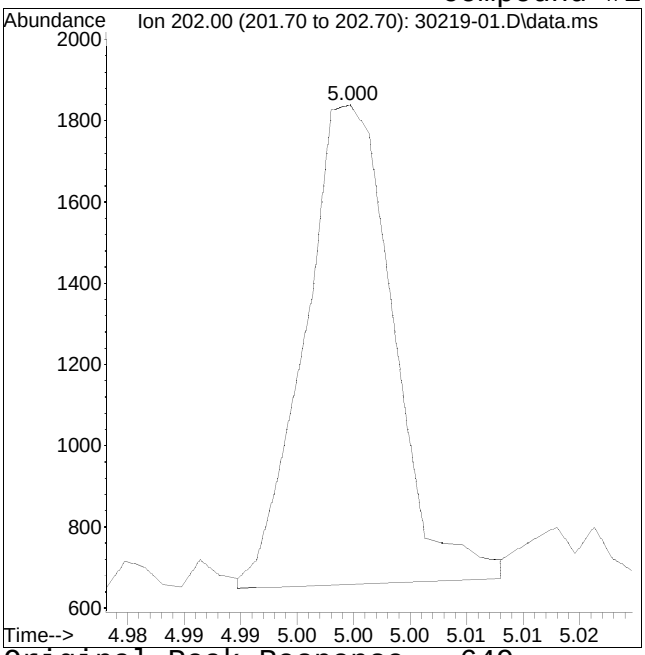
Manual Peak Response = 918 M4

M4 = Poor automated baseline construction.

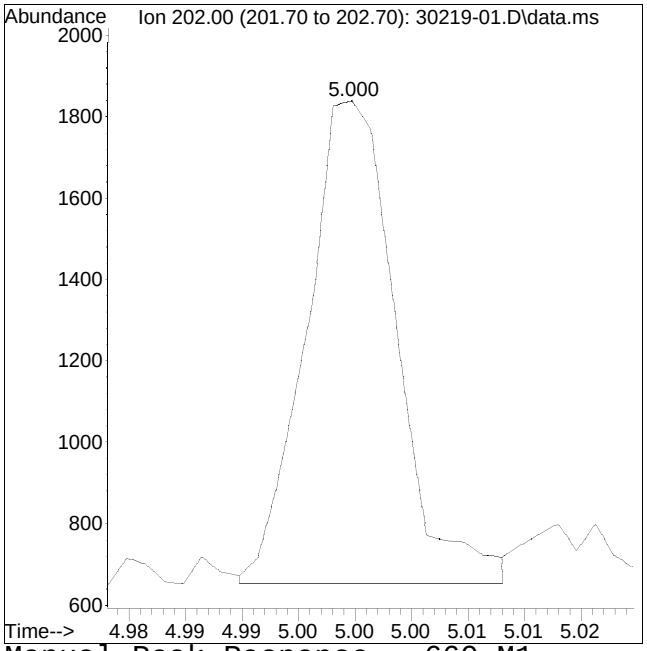
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-01.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 3:29 pm Instrument : SV119
Sample : L2430219-01,32,,ah Quant Date : 6/4/2024 3:43 pm

Compound #28: Fluoranthene



Original Peak Response = 649



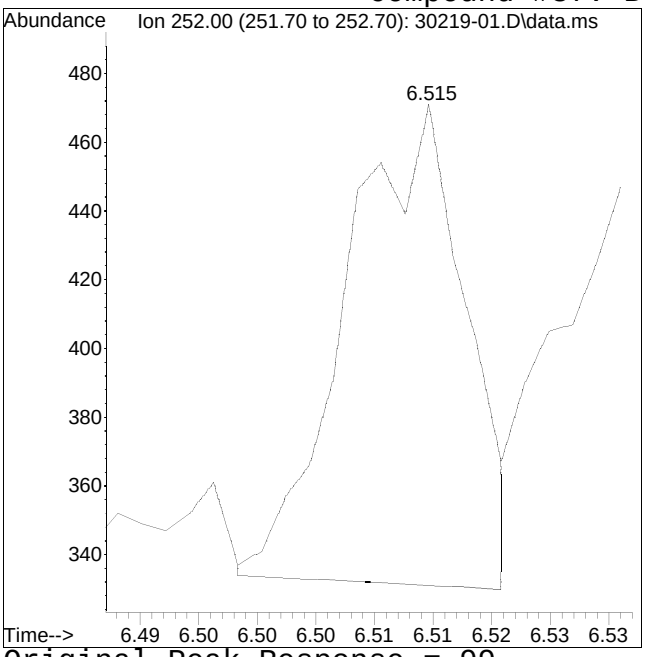
Manual Peak Response = 660 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

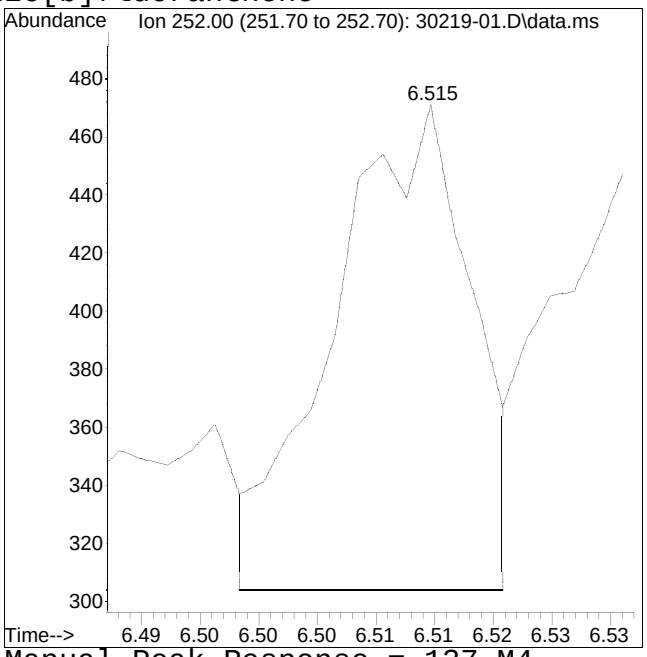
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-01.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 3:29 pm Instrument : SV119
Sample : L2430219-01,32,,ah Quant Date : 6/4/2024 3:43 pm

Compound #37: Benzo[b]fluoranthene



Original Peak Response = 99



Manual Peak Response = 137 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 30219-02.D
Acq On : 04 Jun 2024 03:45 pm
Operator : sv119:jjw
Sample : L2430219-02,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 06 11:16:45 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240604LVI\ccv0604.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.907	152	45411	4000.000	ng/ml	0.00
Standard Area 1 = 56492			Recovery = 80.38%			
8) Naphthalene-d8	2.550	136	152008	4000.000	ng/ml	0.00
Standard Area 1 = 186100			Recovery = 81.68%			
17) Acenaphthene-d10	3.498	164	80488	4000.000	ng/ml	0.00
Standard Area 1 = 98337			Recovery = 81.85%			
22) Phenanthrene-d10	4.318	188	166293	4000.000	ng/ml	0.00
Standard Area 1 = 215749			Recovery = 77.08%			
31) Chrysene-d12	5.843	240	146957	4000.000	ng/ml	0.00
Standard Area 1 = 188074			Recovery = 78.14%			
36) Perylene-d12	6.793	264	160405	4000.000	ng/ml	0.00
Standard Area 1 = 198758			Recovery = 80.70%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.339	112	35249	2837.932	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 56.76%			
3) Phenol-d6	1.742	99	37263	2502.793	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 50.06%			
7) Nitrobenzene-d5	2.185	82	23008	2037.261	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 81.49%			
13) 2-Fluorobiphenyl	3.137	172	57527	1694.499	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 67.78%			
21) 2,4,6-Tribromophenol	3.935	330	25470	5739.806	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 114.80%#			
30) 4-Terphenyl-d14	5.232	244	68698	1685.177	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 67.41%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	2.562	128	125	3.444	ng/ml#	90
10) Hexachlorobutadiene	0.000		0	N.D.	d	
11) 2-Methylnaphthalene	0.000		0	N.D.	d	
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	0.000		0	N.D.	d	
25) Pentachlorophenol	0.000		0	N.D.	d	

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 30219-02.D
Acq On : 04 Jun 2024 03:45 pm
Operator : sv119:jjw
Sample : L2430219-02,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 06 11:16:45 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240604LVI\ccv0604.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.330	178	200M4	4.735	ng/ml	
27) Anthracene	4.357	178	140M4	3.342	ng/ml	
28) Fluoranthene	4.998	202	218M6	3.916	ng/ml	
29) Pyrene	5.126	202	152M6	2.658	ng/ml	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	6.506	252	175M4	3.123	ng/ml	
38) Benzo[k]fluoranthene	6.525	252	90M1	1.691	ng/ml	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

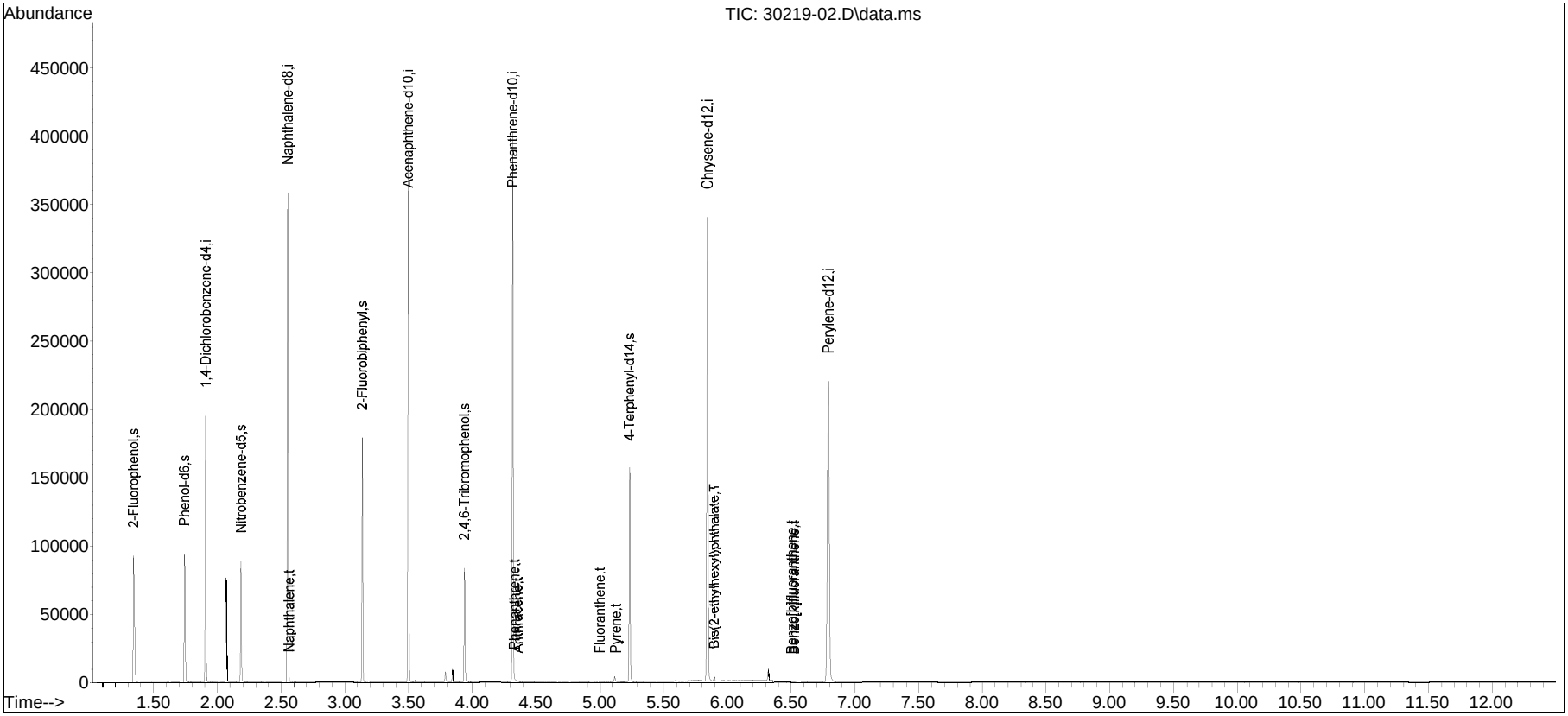
(#) = qualifier out of range (m) = manual integration (+) = signals summed

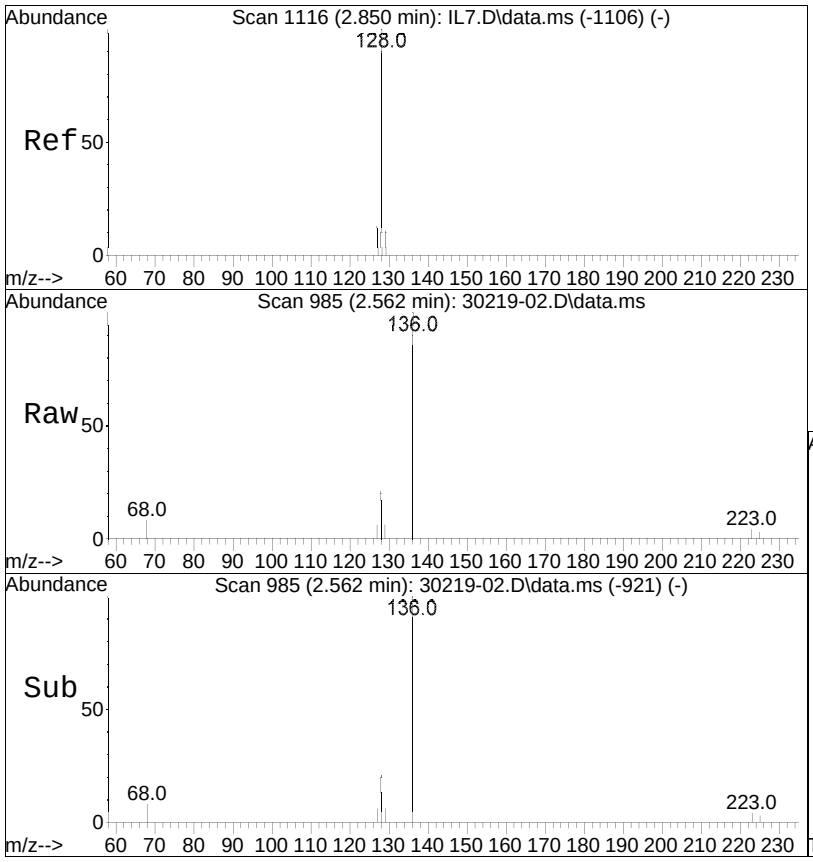
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 30219-02.D
Acq On : 04 Jun 2024 03:45 pm
Operator : sv119:jjw
Sample : L2430219-02,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 06 11:16:45 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0604.D•

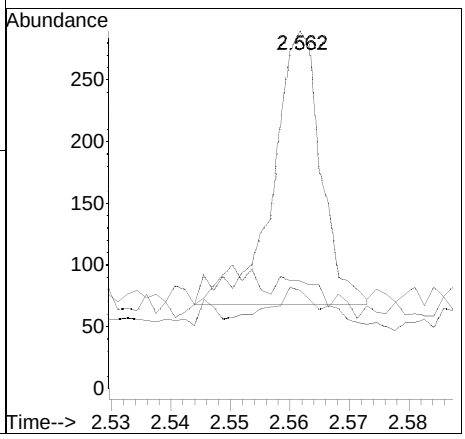


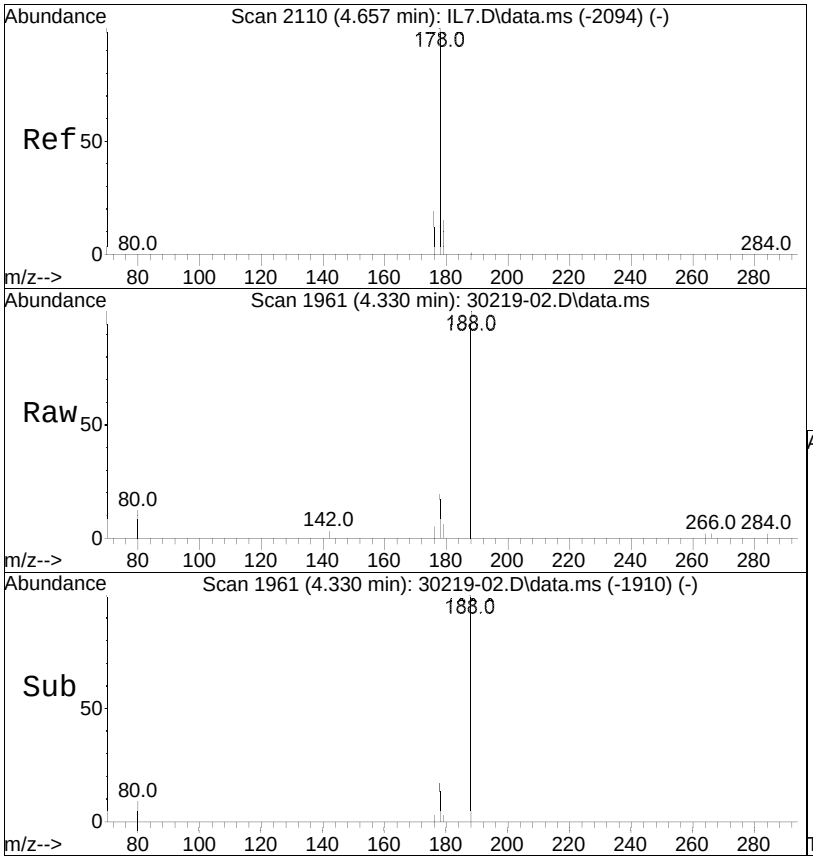


#9
Naphthalene
Concen: 3.44 ng/ml
RT: 2.562 min Scan# 985
Delta R.T. 0.003 min
Lab File: 30219-02.D
Acq: 04 Jun 2024 03:45 pm

Tgt Ion:128 Resp: 125

Ion	Ratio	Lower	Upper
128	100		
129	14.4	8.8	13.2#
127	17.6	10.6	15.8#

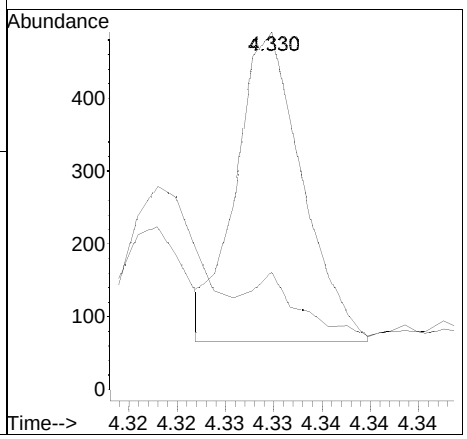


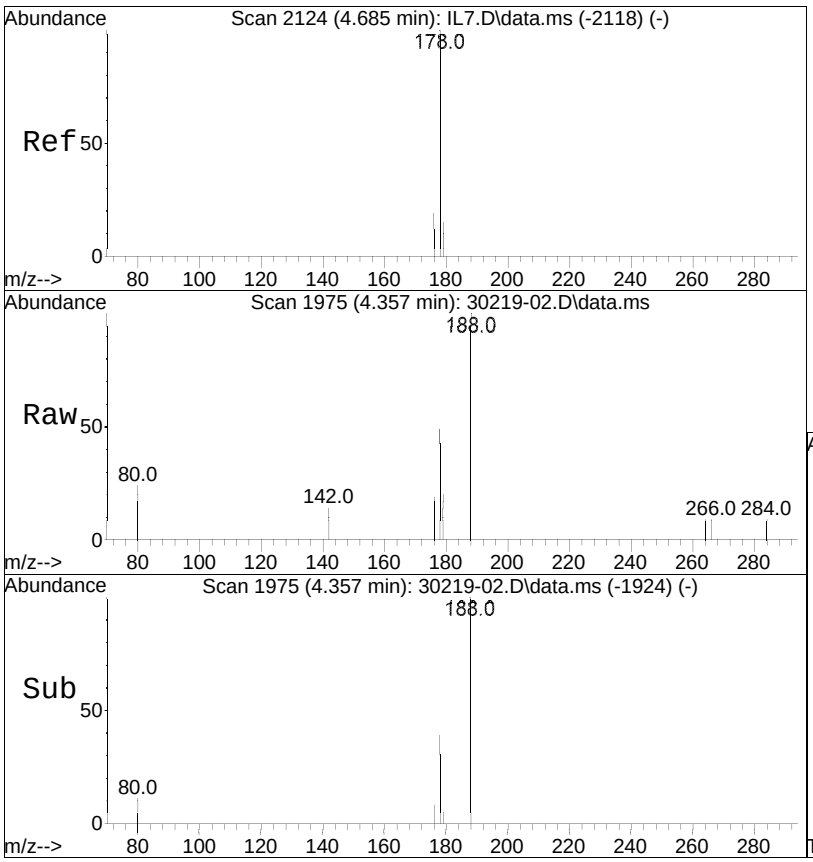


#26
Phenanthrene
Concen: 4.73 ng/ml M4
RT: 4.330 min Scan# 1961
Delta R.T. -0.000 min
Lab File: 30219-02.D
Acq: 04 Jun 2024 03:45 pm

Tgt Ion:178 Resp: 200

Ion	Ratio	Lower	Upper
178	100		
179	16.0	12.3	18.5

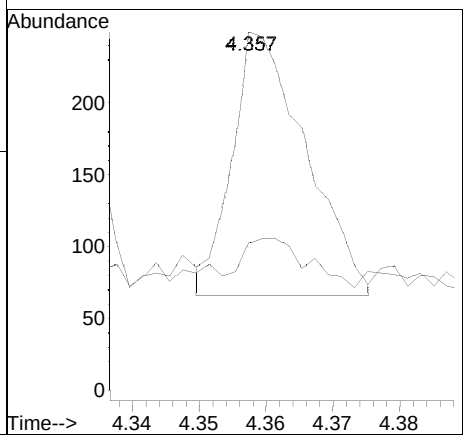


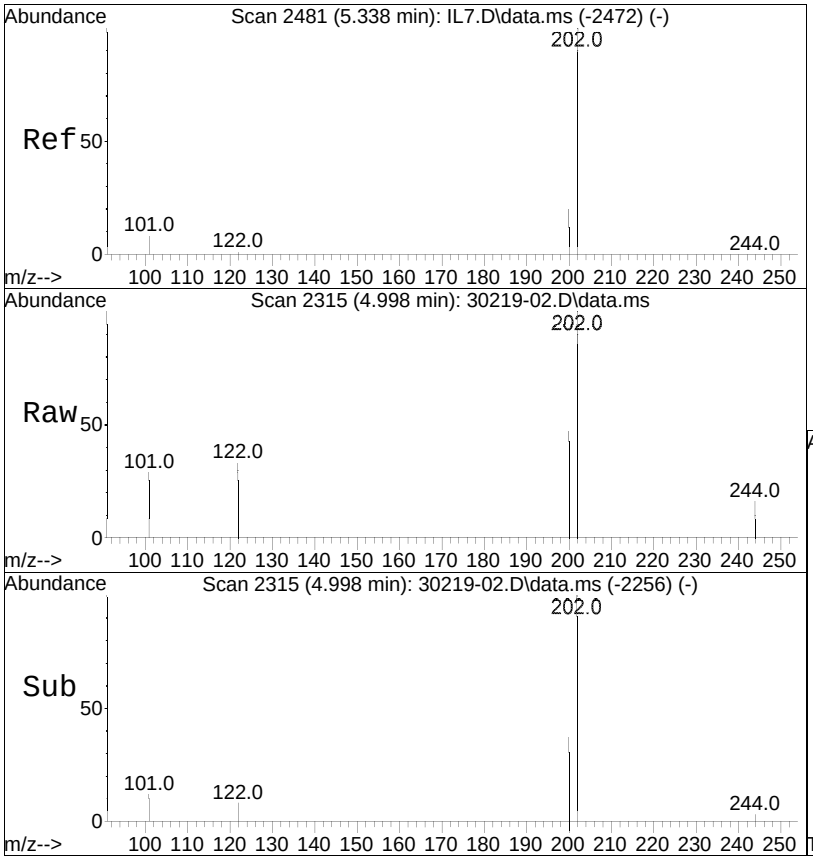


#27
Anthracene
Concen: 3.34 ng/ml M4
RT: 4.357 min Scan# 1975
Delta R.T. -0.000 min
Lab File: 30219-02.D
Acq: 04 Jun 2024 03:45 pm

Tgt Ion:178 Resp: 140

Ion	Ratio	Lower	Upper
178	100		
179	20.0	12.2	18.4#

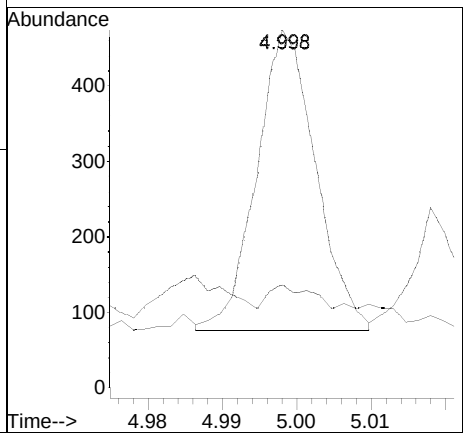


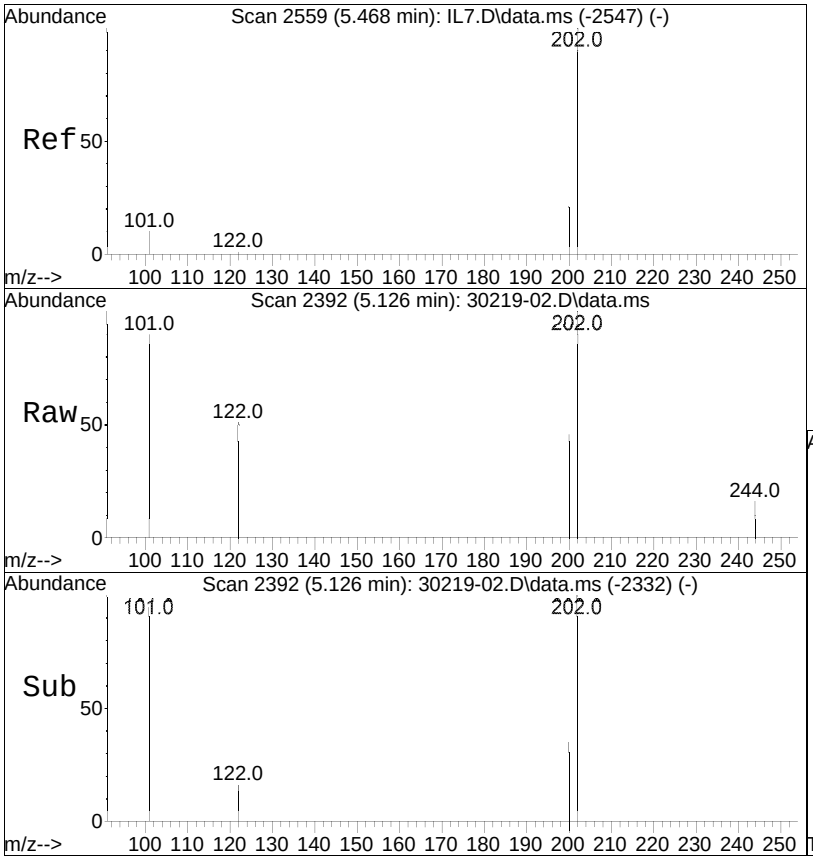


#28
Fluoranthene
Concen: 3.92 ng/ml M6
RT: 4.998 min Scan# 2315
Delta R.T. -0.002 min
Lab File: 30219-02.D
Acq: 04 Jun 2024 03:45 pm

Tgt Ion:202 Resp: 218

Ion	Ratio	Lower	Upper
202	100		
101	15.6	8.3	12.5#

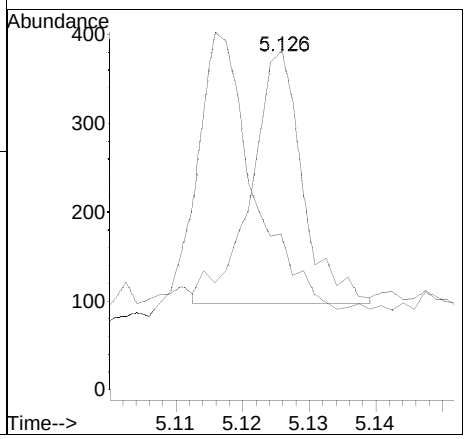


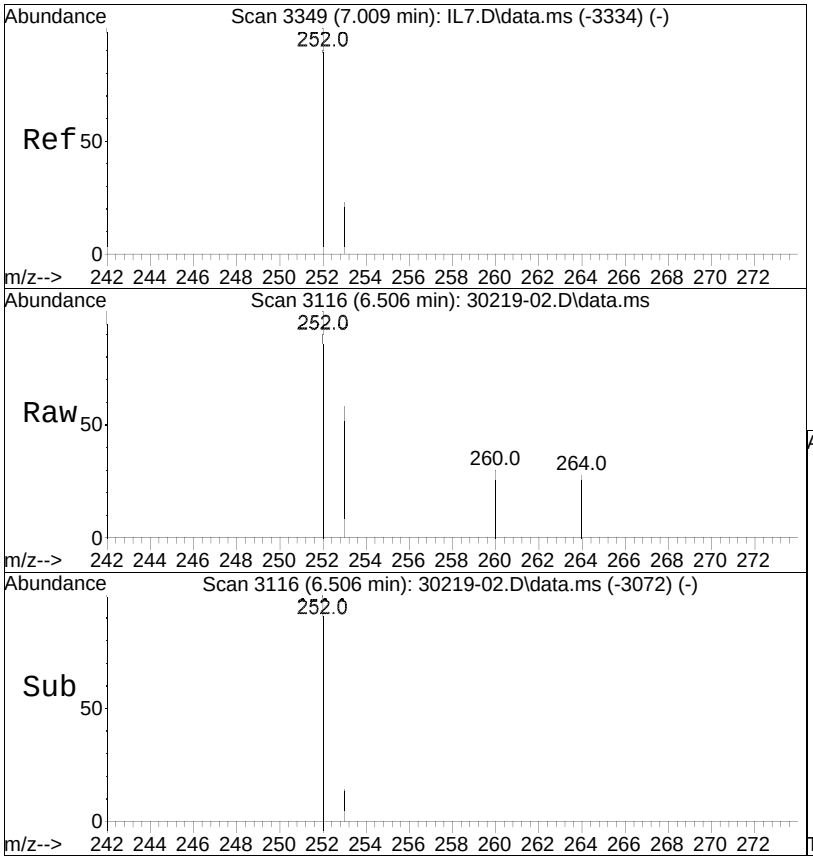


#29
Pyrene
Concen: 2.66 ng/ml M6
RT: 5.126 min Scan# 2392
Delta R.T. -0.000 min
Lab File: 30219-02.D
Acq: 04 Jun 2024 03:45 pm

Tgt Ion:202 Resp: 152

Ion	Ratio	Lower	Upper
202	100		
200	23.0	17.3	25.9

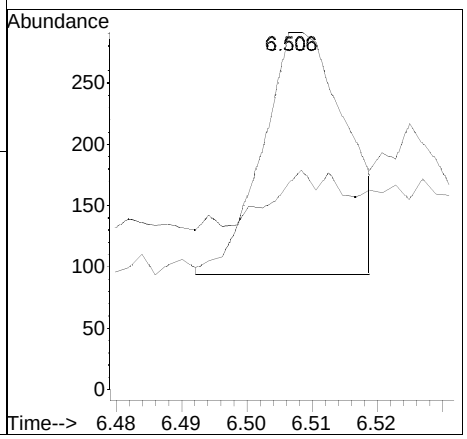


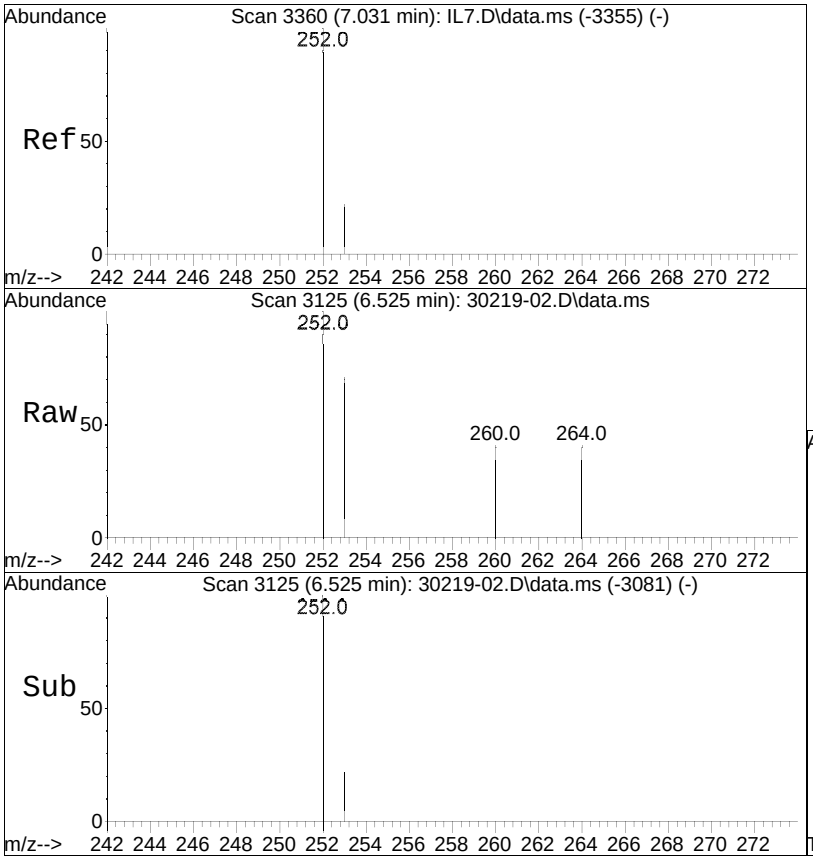


#37
Benzo[b]fluoranthene
Concen: 3.12 ng/ml M4
RT: 6.506 min Scan# 3116
Delta R.T. -0.010 min
Lab File: 30219-02.D
Acq: 04 Jun 2024 03:45 pm

Tgt Ion:252 Resp: 175

Ion	Ratio	Lower	Upper
252	100		
253	21.1	17.3	25.9

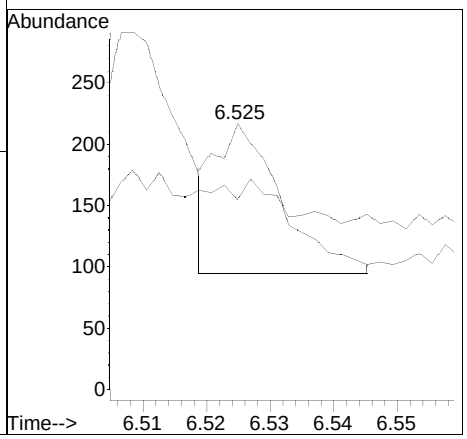




#38
Benzo[k]fluoranthene
Concen: 1.69 ng/ml M1
RT: 6.525 min Scan# 3125
Delta R.T. -0.010 min
Lab File: 30219-02.D
Acq: 04 Jun 2024 03:45 pm

Tgt Ion:252 Resp: 90

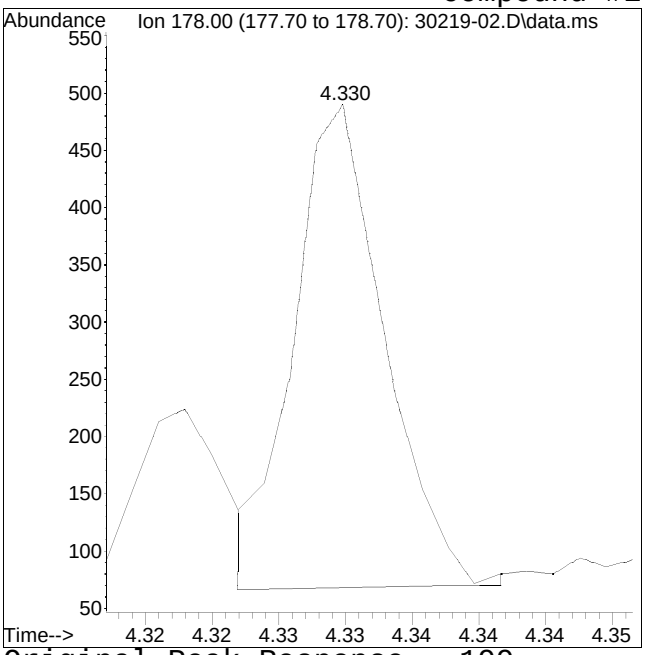
Ion	Ratio	Lower	Upper
252	100		
253	25.6	17.4	26.2



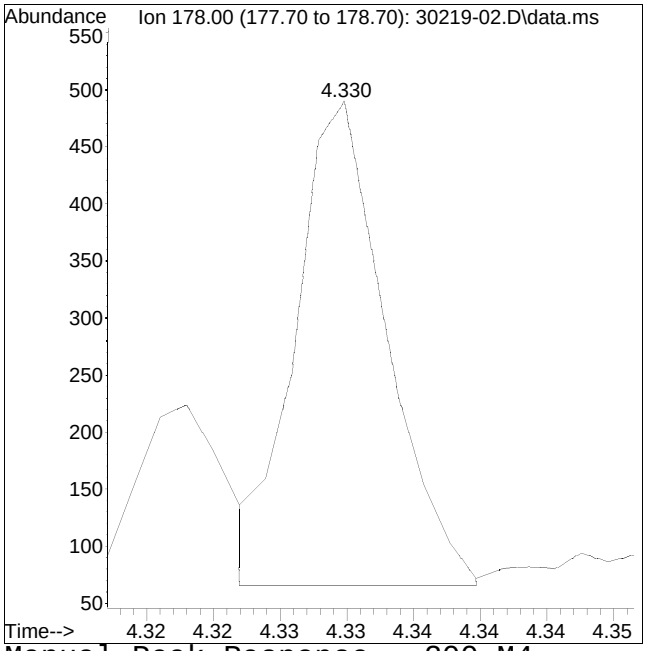
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-02.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 3:45 pm Instrument : SV119
Sample : L2430219-02,32,,ah Quant Date : 6/4/2024 3:59 pm

Compound #26: Phenanthrene



Original Peak Response = 199



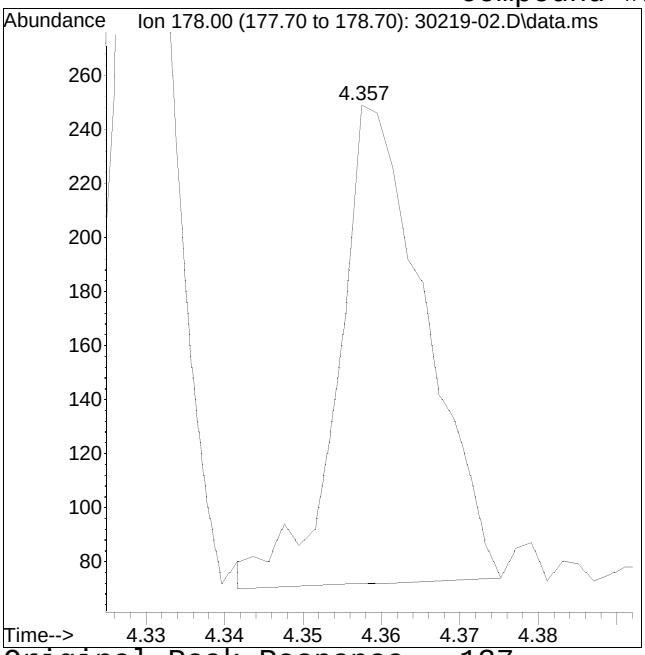
Manual Peak Response = 200 M4

M4 = Poor automated baseline construction.

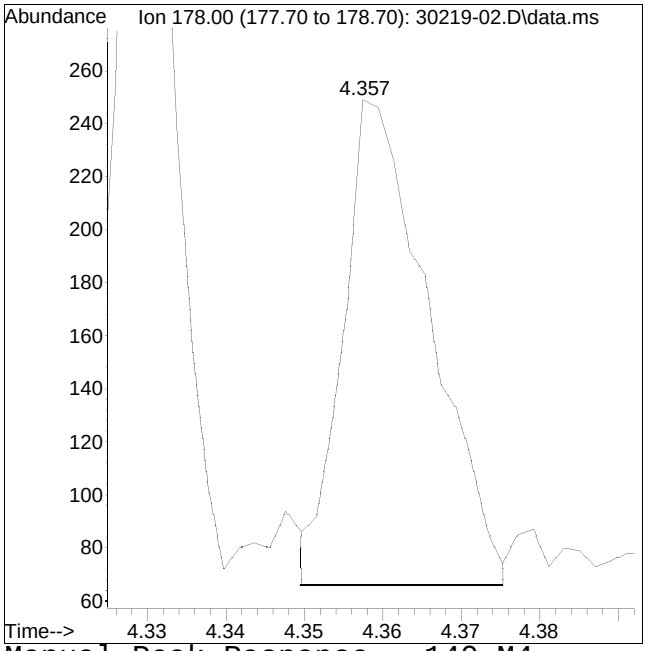
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-02.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 3:45 pm Instrument : SV119
Sample : L2430219-02,32,,ah Quant Date : 6/4/2024 3:59 pm

Compound #27: Anthracene



Original Peak Response = 137



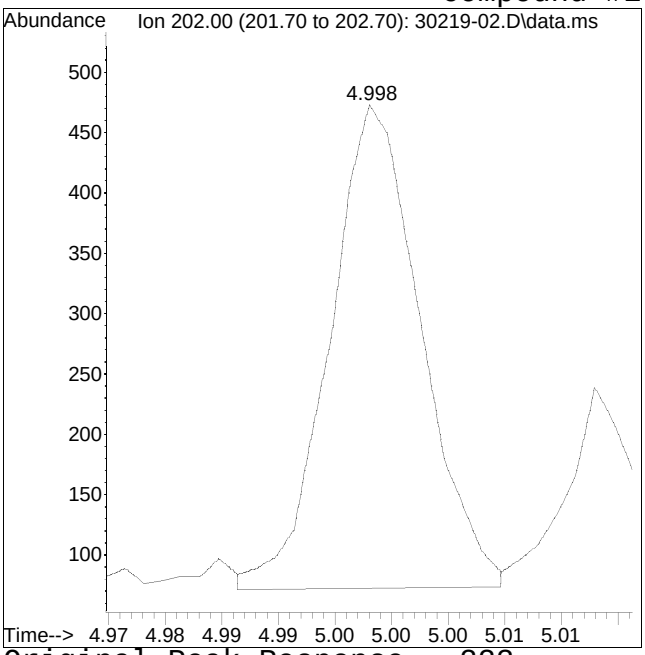
Manual Peak Response = 140 M4

M4 = Poor automated baseline construction.

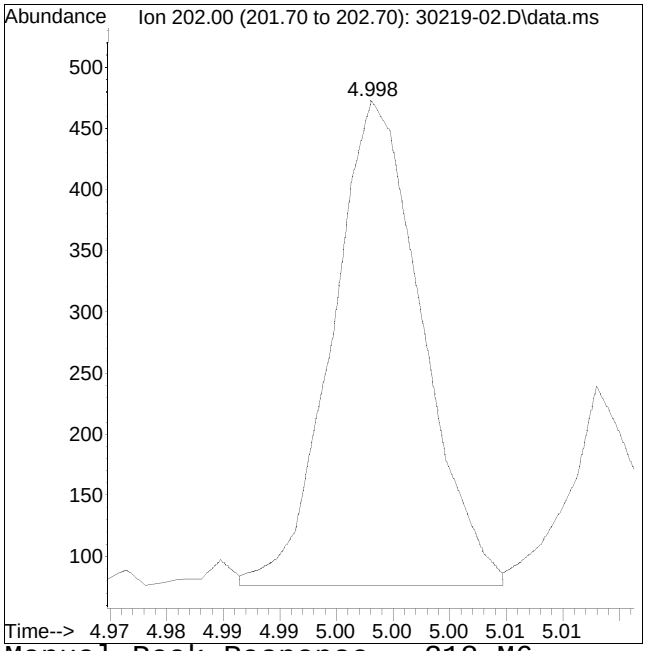
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-02.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 3:45 pm Instrument : SV119
Sample : L2430219-02,32,,ah Quant Date : 6/4/2024 3:59 pm

Compound #28: Fluoranthene



Original Peak Response = 223



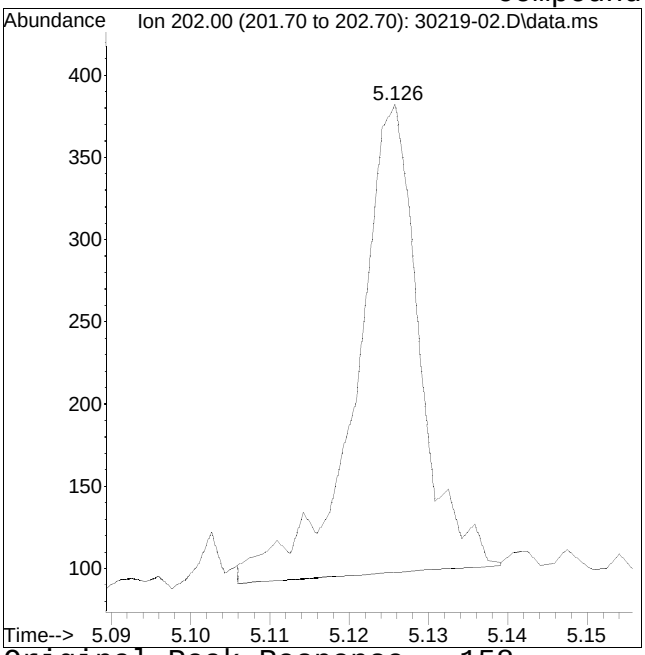
Manual Peak Response = 218 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

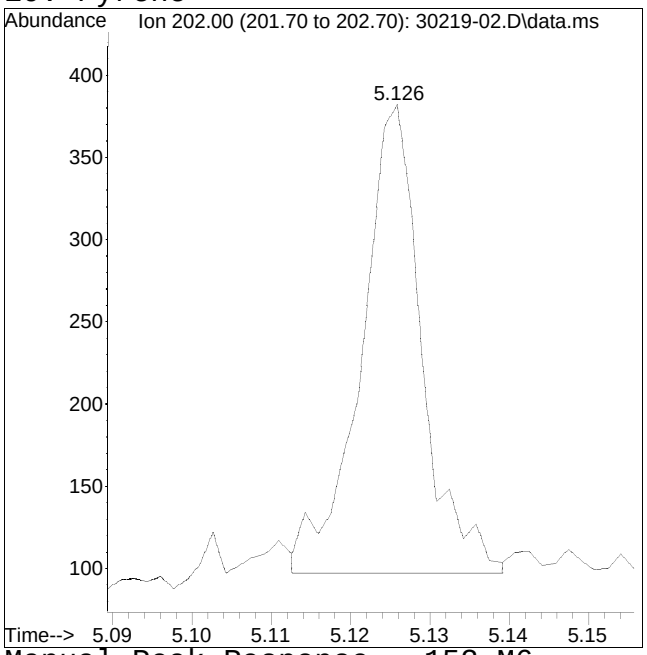
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-02.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 3:45 pm Instrument : SV119
Sample : L2430219-02,32,,ah Quant Date : 6/4/2024 3:59 pm

Compound #29: Pyrene



Original Peak Response = 158



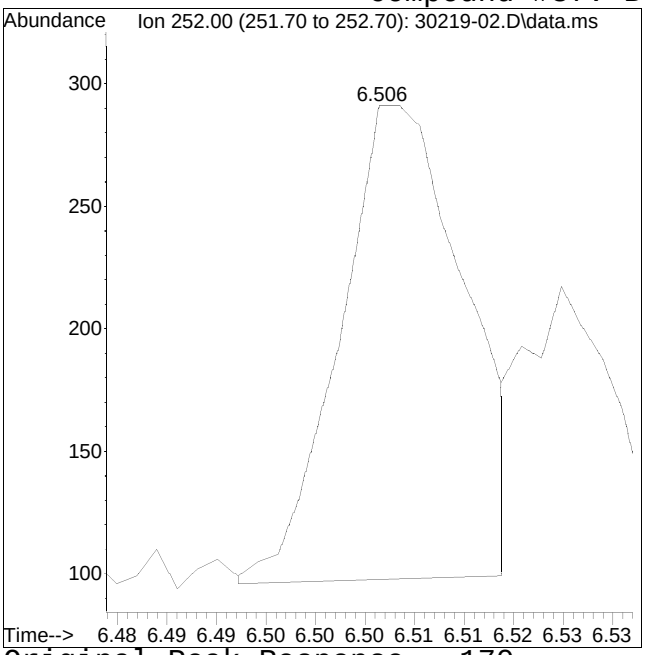
Manual Peak Response = 152 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

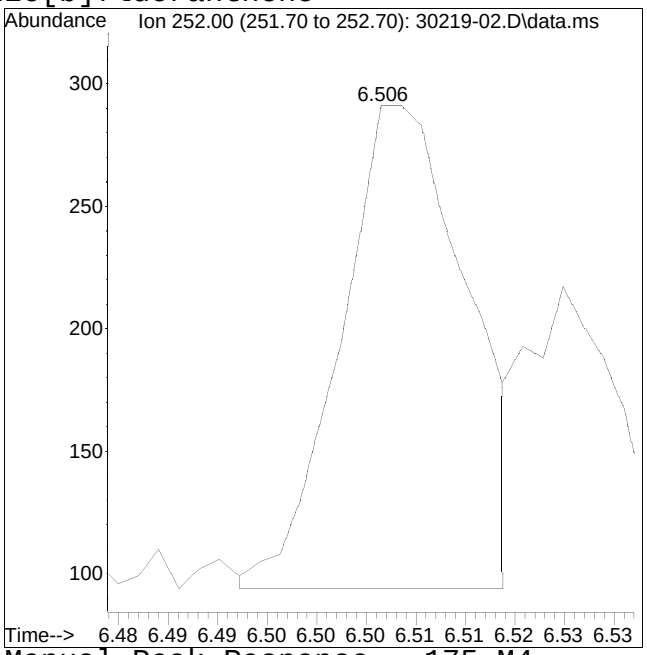
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-02.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 3:45 pm Instrument : SV119
Sample : L2430219-02,32,,ah Quant Date : 6/4/2024 3:59 pm

Compound #37: Benzo[b]fluoranthene



Original Peak Response = 170



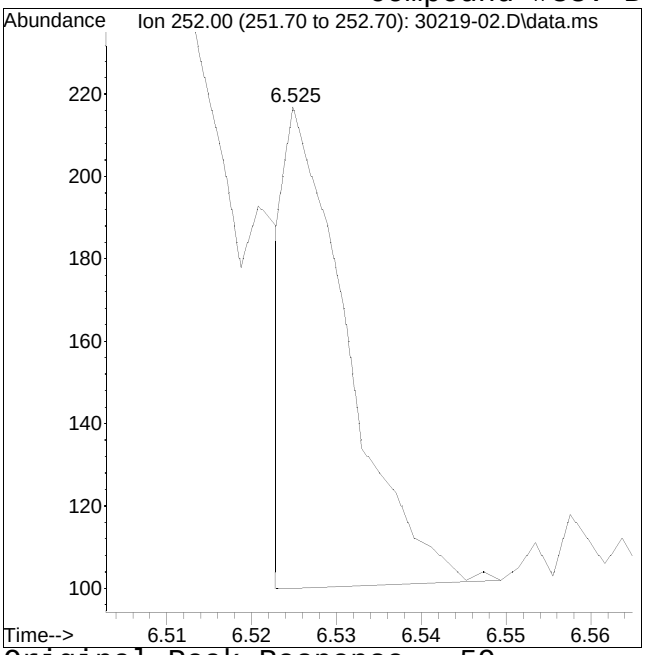
Manual Peak Response = 175 M4

M4 = Poor automated baseline construction.

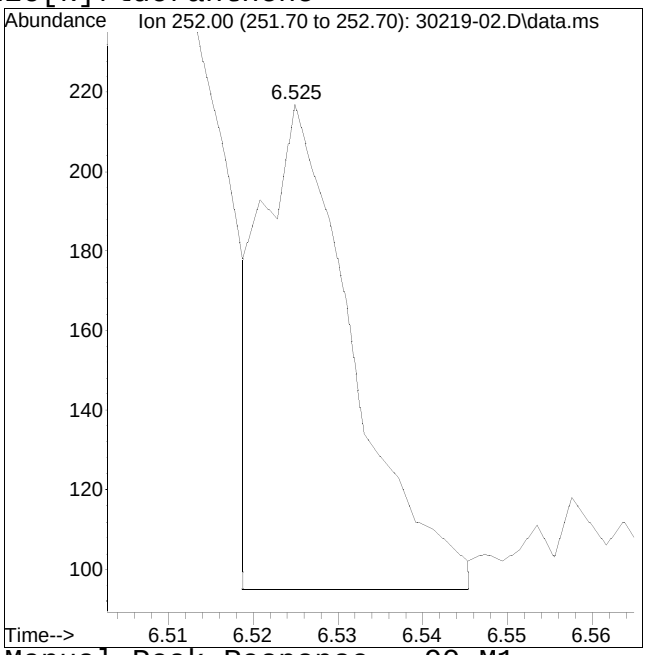
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-02.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 3:45 pm Instrument : SV119
Sample : L2430219-02,32,,ah Quant Date : 6/4/2024 3:59 pm

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 59



Manual Peak Response = 90 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 30219-03.D
Acq On : 04 Jun 2024 04:02 pm
Operator : sv119:jjw
Sample : L2430219-03,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jun 06 11:13:34 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240604LVI\ccv0604.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.907	152	46216	4000.000	ng/ml	0.00
Standard Area 1 = 56492			Recovery = 81.81%			
8) Naphthalene-d8	2.551	136	153468	4000.000	ng/ml	0.00
Standard Area 1 = 186100			Recovery = 82.47%			
17) Acenaphthene-d10	3.501	164	81281	4000.000	ng/ml	0.00
Standard Area 1 = 98337			Recovery = 82.66%			
22) Phenanthrene-d10	4.318	188	169351	4000.000	ng/ml	0.00
Standard Area 1 = 215749			Recovery = 78.49%			
31) Chrysene-d12	5.842	240	144366	4000.000	ng/ml	0.00
Standard Area 1 = 188074			Recovery = 76.76%			
36) Perylene-d12	6.787	264	155007	4000.000	ng/ml	-0.01
Standard Area 1 = 198758			Recovery = 77.99%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.340	112	42874	3391.703	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 67.83%			
3) Phenol-d6	1.744	99	43786	2889.689	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 57.79%			
7) Nitrobenzene-d5	2.183	82	27593	2400.686	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 96.03%			
13) 2-Fluorobiphenyl	3.138	172	65064	1898.275	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 75.93%			
21) 2,4,6-Tribromophenol	3.937	330	26574	5930.172	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 118.60%#			
30) 4-Terphenyl-d14	5.231	244	67739	1631.647	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 65.27%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	2.562	128	115M4	3.138	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.	d	
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	3.420	152	400M4	9.326	ng/ml	
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	3.801	166	61M6	2.031	ng/ml	
24) Hexachlorobenzene	0.000		0	N.D.	d	
25) Pentachlorophenol	4.226	266	132	30.433	ng/ml	85

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 30219-03.D
Acq On : 04 Jun 2024 04:02 pm
Operator : sv119:jjw
Sample : L2430219-03,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jun 06 11:13:34 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240604LVI\ccv0604.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.330	178	445M1	10.344	ng/ml	
27) Anthracene	4.360	178	457M6	10.713	ng/ml	
28) Fluoranthene	4.998	202	1201M6	21.183	ng/ml	
29) Pyrene	5.124	202	1155	19.829	ng/ml#	62
32) Benzo[a]anthracene	5.835	228	1684M6	24.429	ng/ml	
34) Chrysene	5.854	228	1866M1	39.164	ng/ml	
37) Benzo[b]fluoranthene	6.507	252	3463	63.949	ng/ml	99
38) Benzo[k]fluoranthene	6.523	252	1246M3	24.231	ng/ml	
39) Benzo[a]pyrene	6.740	252	1037M6	21.756	ng/ml	
40) Indeno[1,2,3-cd]pyrene	7.739	276	1964M6	37.911	ng/ml	
41) Dibenzo[a,h]anthracene	7.772	278	644M6	13.361	ng/ml	
42) Benzo[g,h,i]perylene	8.005	276	2269	43.059	ng/ml#	89

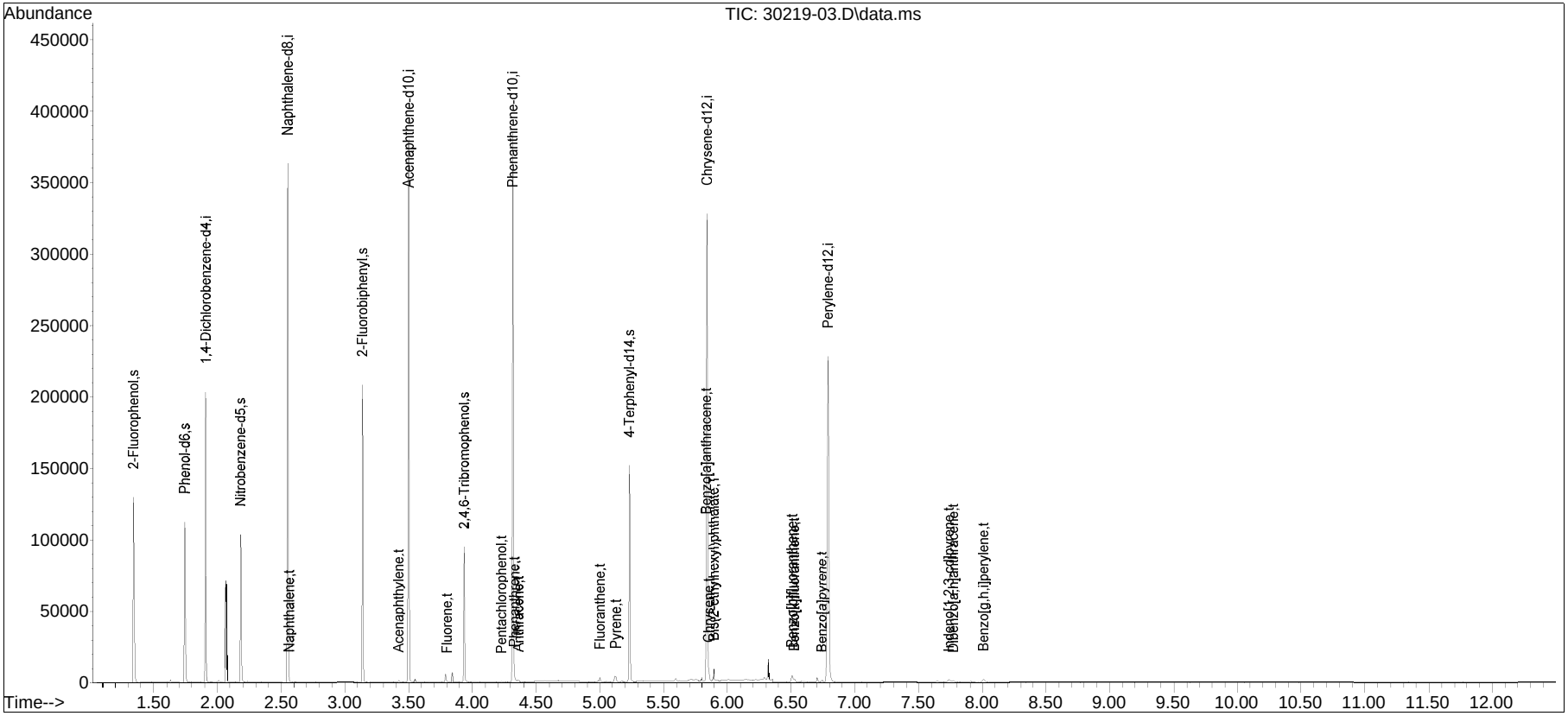
(#) = qualifier out of range (m) = manual integration (+) = signals summed

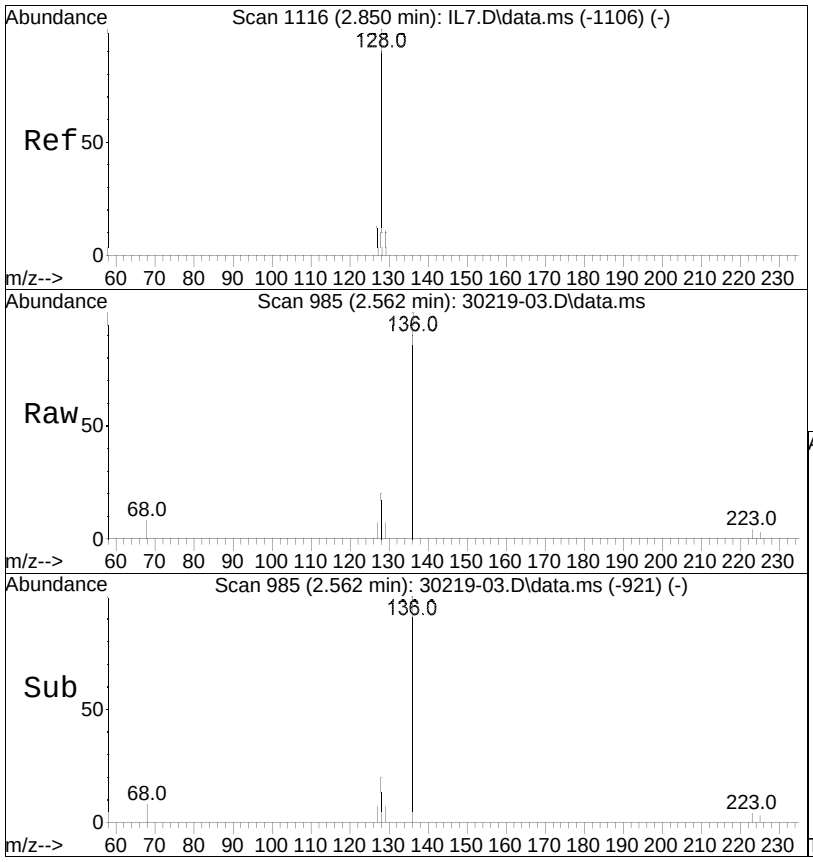
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 30219-03.D
Acq On : 04 Jun 2024 04:02 pm
Operator : sv119:jjw
Sample : L2430219-03,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jun 06 11:13:34 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0604.D•

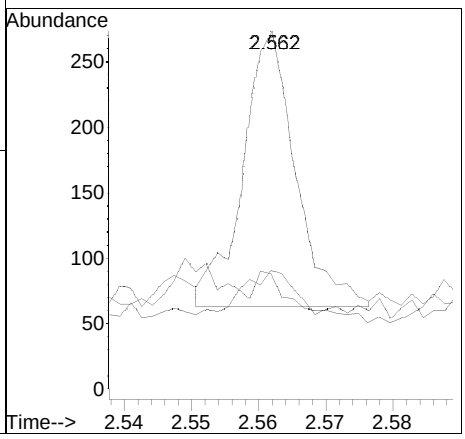


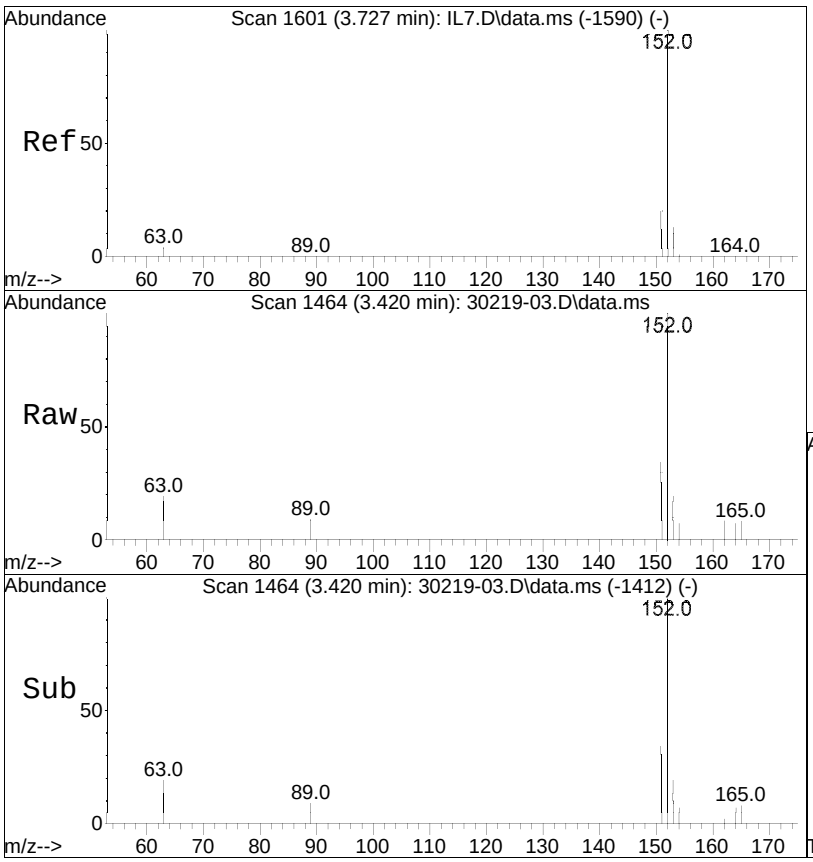


#9
Naphthalene
Concen: 3.14 ng/ml M4
RT: 2.562 min Scan# 985
Delta R.T. 0.003 min
Lab File: 30219-03.D
Acq: 04 Jun 2024 04:02 pm

Tgt Ion:128 Resp: 115

Ion	Ratio	Lower	Upper
128	100		
129	19.1	8.8	13.2#
127	18.3	10.6	15.8#

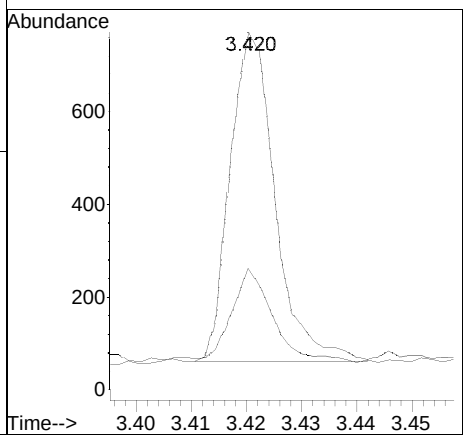


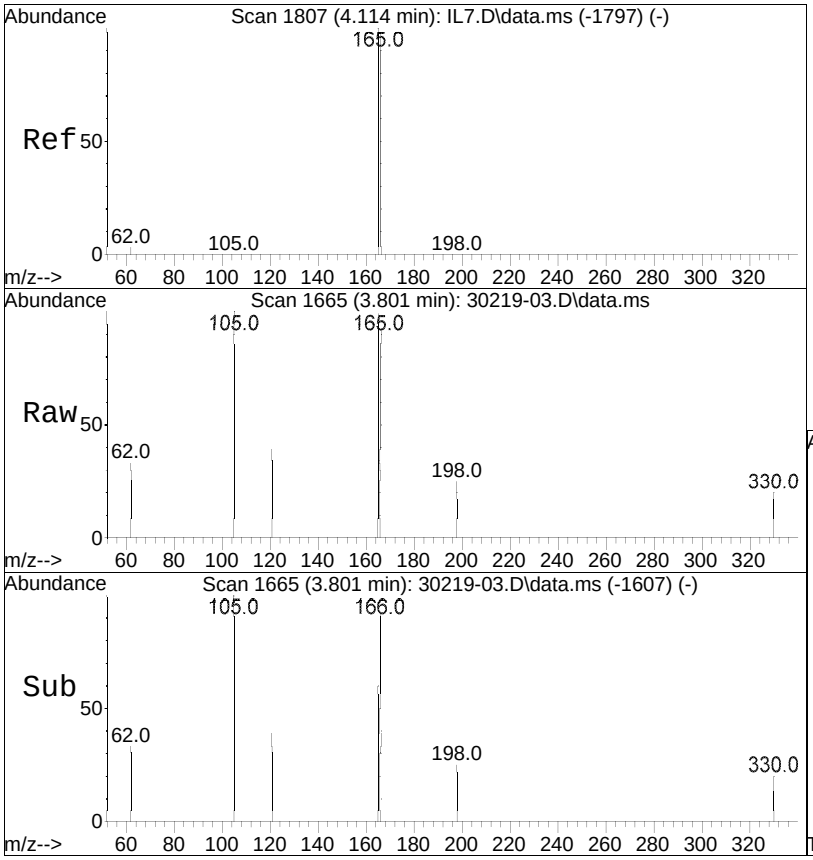


#16
Acenaphthylene
Concen: 9.33 ng/ml M4
RT: 3.420 min Scan# 1464
Delta R.T. 0.002 min
Lab File: 30219-03.D
Acq: 04 Jun 2024 04:02 pm

Tgt Ion:152 Resp: 400

Ion	Ratio	Lower	Upper
152	100		
151	26.5	16.0	24.0#

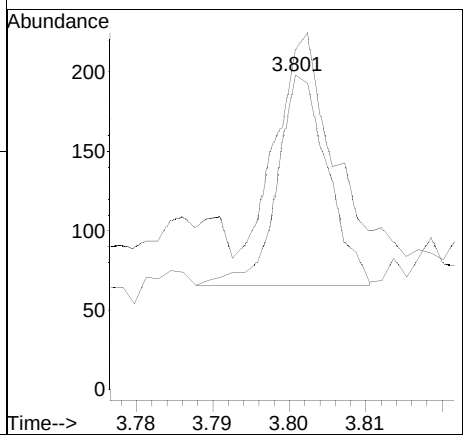


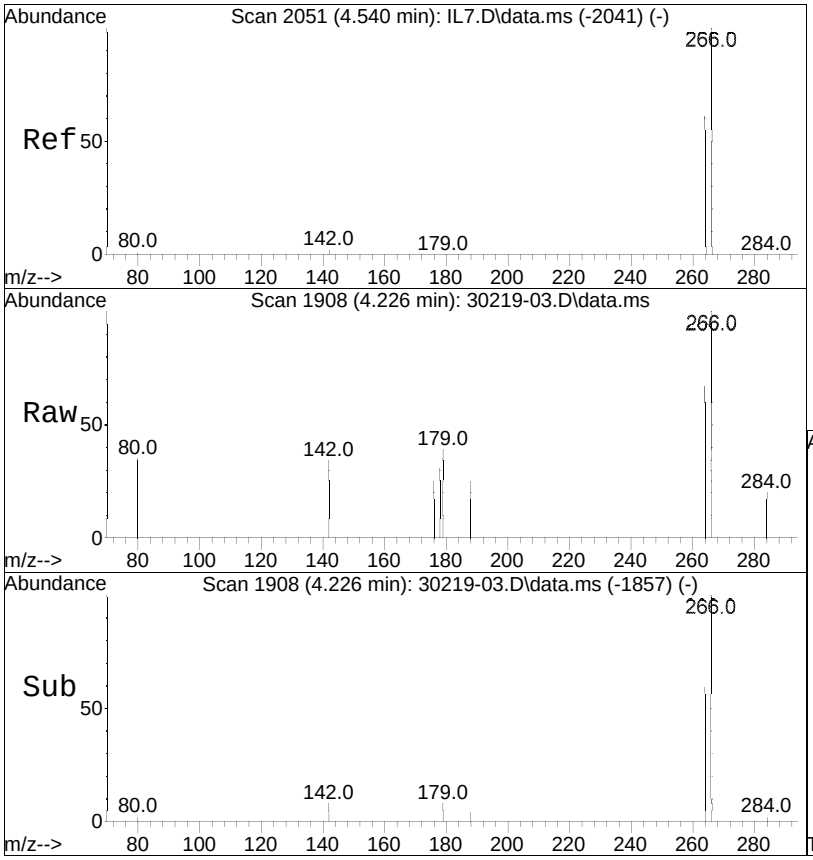


#20
Fluorene
Concen: 2.03 ng/ml M6
RT: 3.801 min Scan# 1665
Delta R.T. 0.000 min
Lab File: 30219-03.D
Acq: 04 Jun 2024 04:02 pm

Tgt Ion:166 Resp: 61

Ion	Ratio	Lower	Upper
166	100		
165	108.2	82.9	124.3

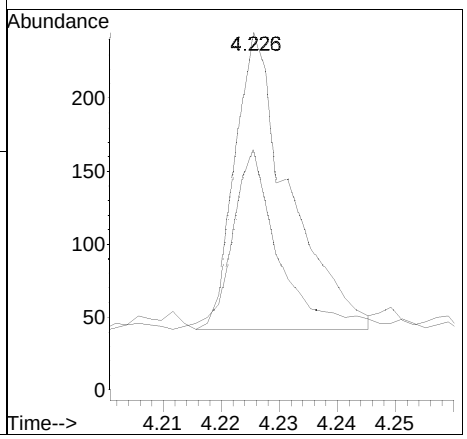


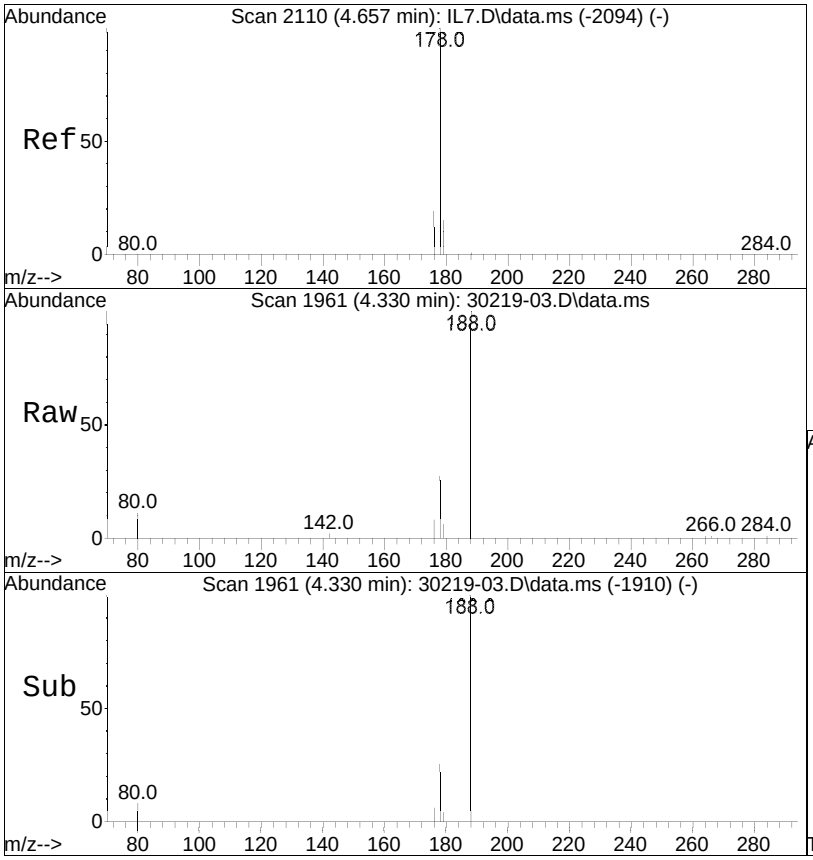


#25
Pentachlorophenol
Concen: 30.43 ng/ml
RT: 4.226 min Scan# 1908
Delta R.T. 0.000 min
Lab File: 30219-03.D
Acq: 04 Jun 2024 04:02 pm

Tgt Ion:266 Resp: 132

Ion	Ratio	Lower	Upper
266	100		
264	51.5	50.7	76.1

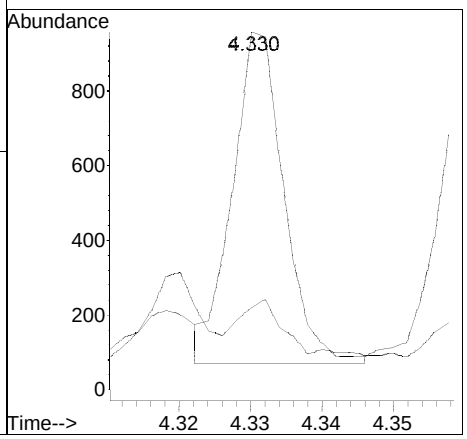


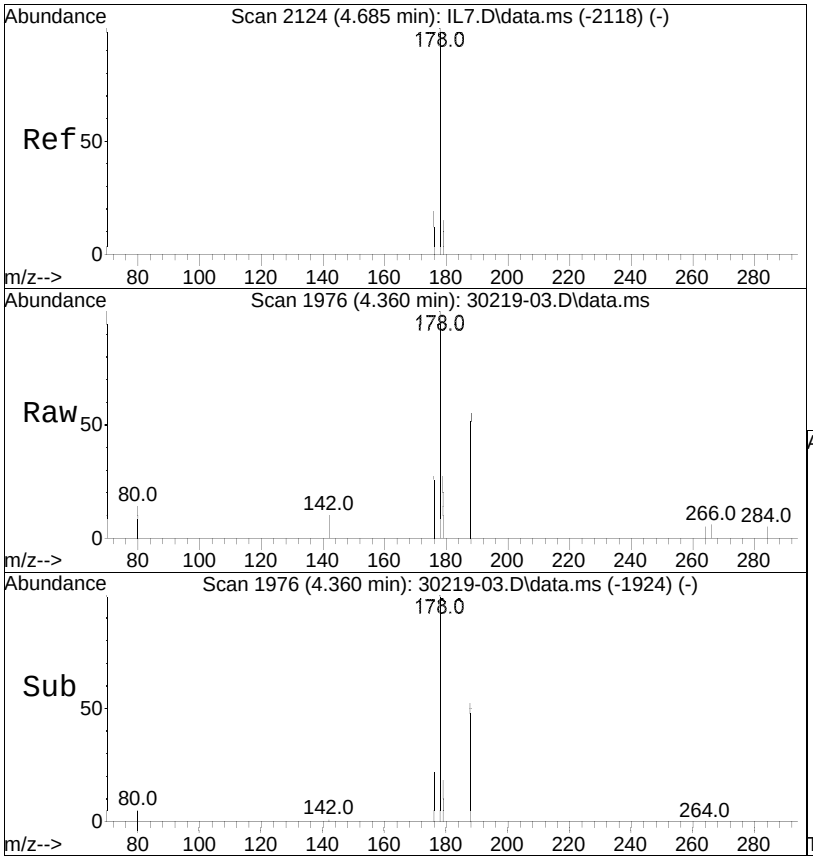


#26
Phenanthrene
Concen: 10.34 ng/ml M1
RT: 4.330 min Scan# 1961
Delta R.T. 0.000 min
Lab File: 30219-03.D
Acq: 04 Jun 2024 04:02 pm

Tgt Ion:178 Resp: 445

Ion	Ratio	Lower	Upper
178	100		
179	18.0	12.3	18.5

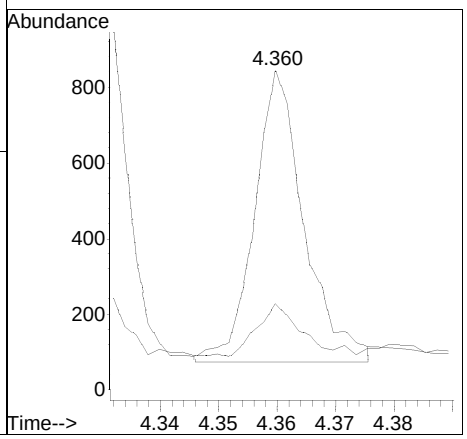


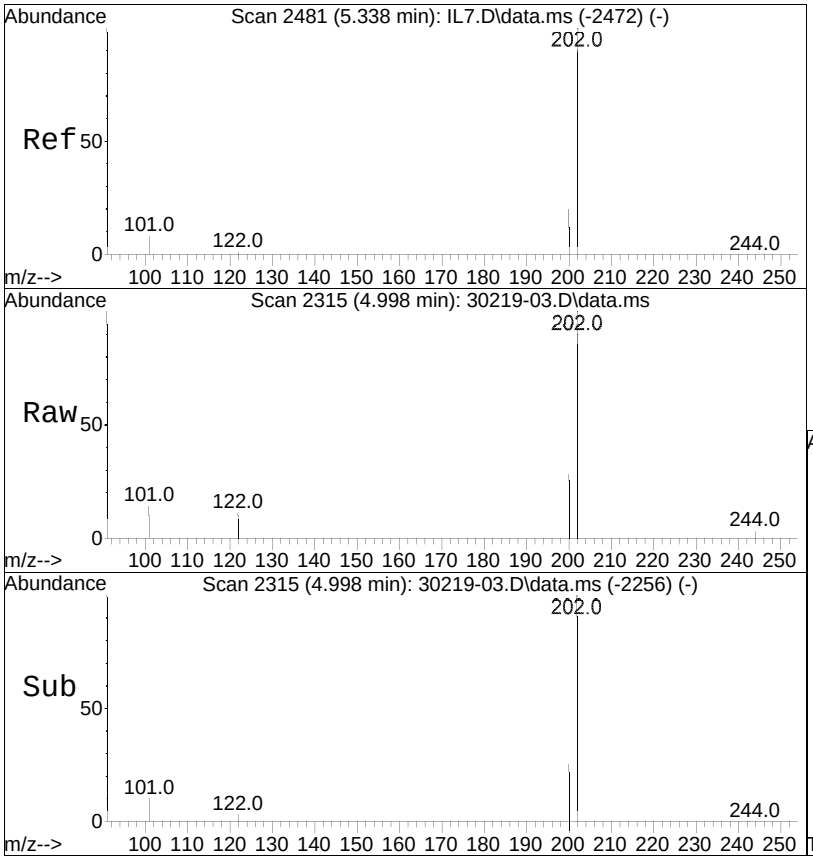


#27
Anthracene
Concen: 10.71 ng/ml M6
RT: 4.360 min Scan# 1976
Delta R.T. 0.002 min
Lab File: 30219-03.D
Acq: 04 Jun 2024 04:02 pm

Tgt Ion:178 Resp: 457

Ion	Ratio	Lower	Upper
178	100		
179	16.2	12.2	18.4

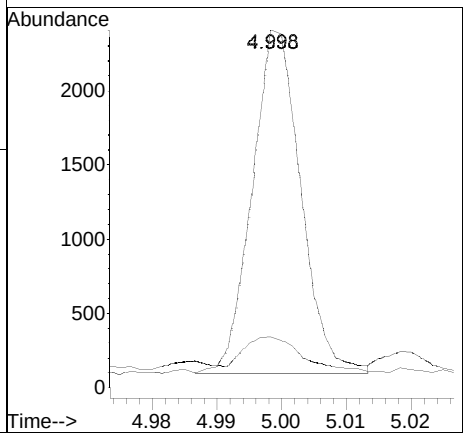


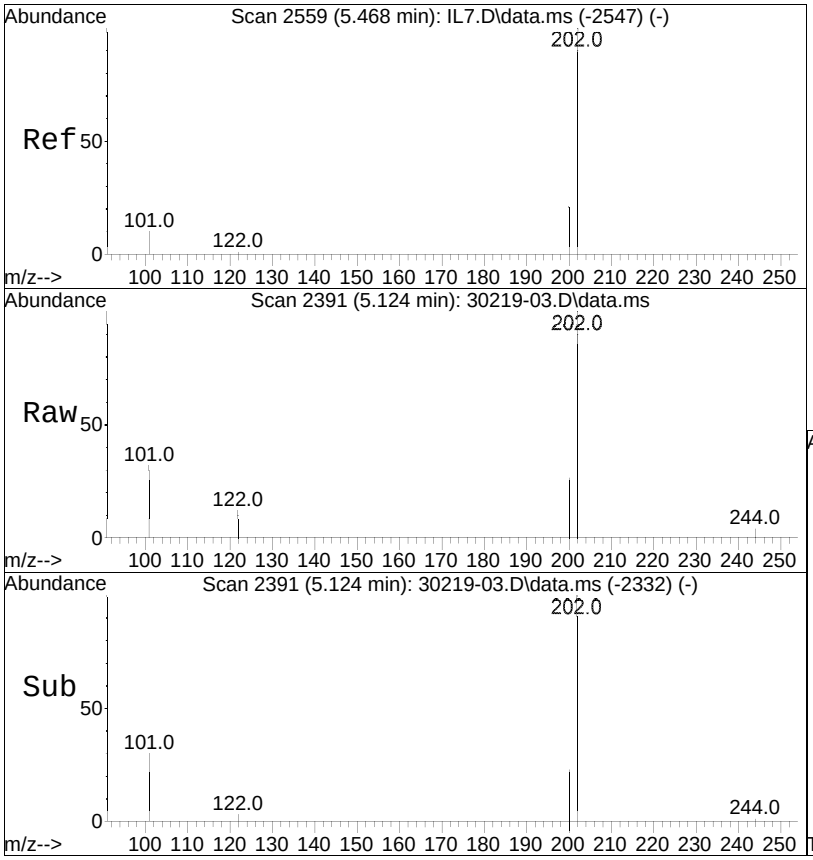


#28
Fluoranthene
Concen: 21.18 ng/ml M6
RT: 4.998 min Scan# 2315
Delta R.T. -0.002 min
Lab File: 30219-03.D
Acq: 04 Jun 2024 04:02 pm

Tgt Ion:202 Resp: 1201

Ion	Ratio	Lower	Upper
202	100		
101	12.7	8.3	12.5#

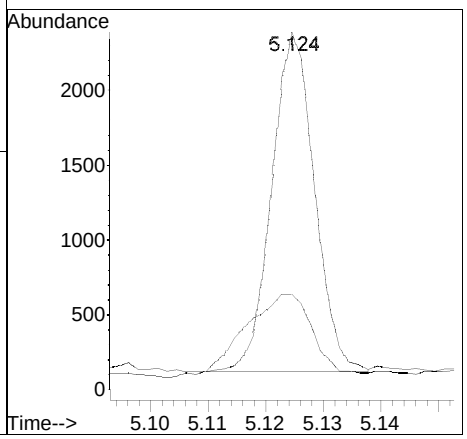


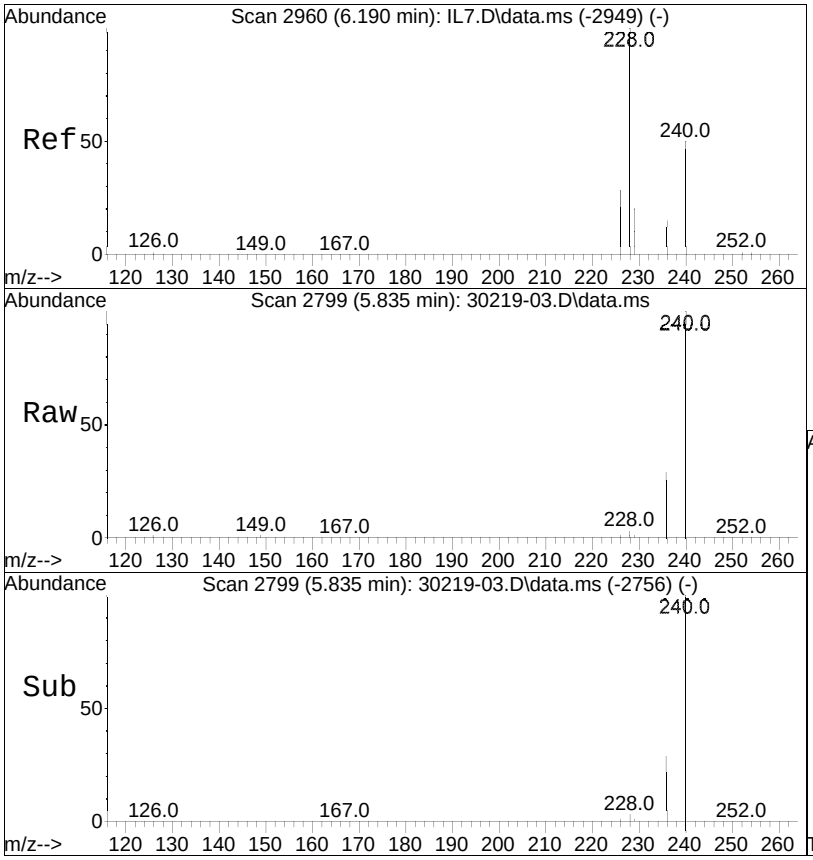


#29
Pyrene
Concen: 19.83 ng/ml
RT: 5.124 min Scan# 2391
Delta R.T. -0.002 min
Lab File: 30219-03.D
Acq: 04 Jun 2024 04:02 pm

Tgt Ion:202 Resp: 1155

Ion	Ratio	Lower	Upper
202	100		
200	39.4	17.3	25.9#

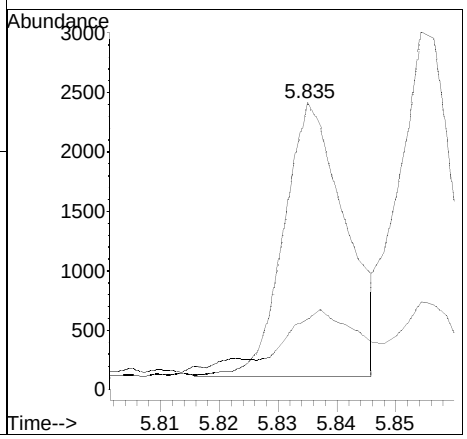


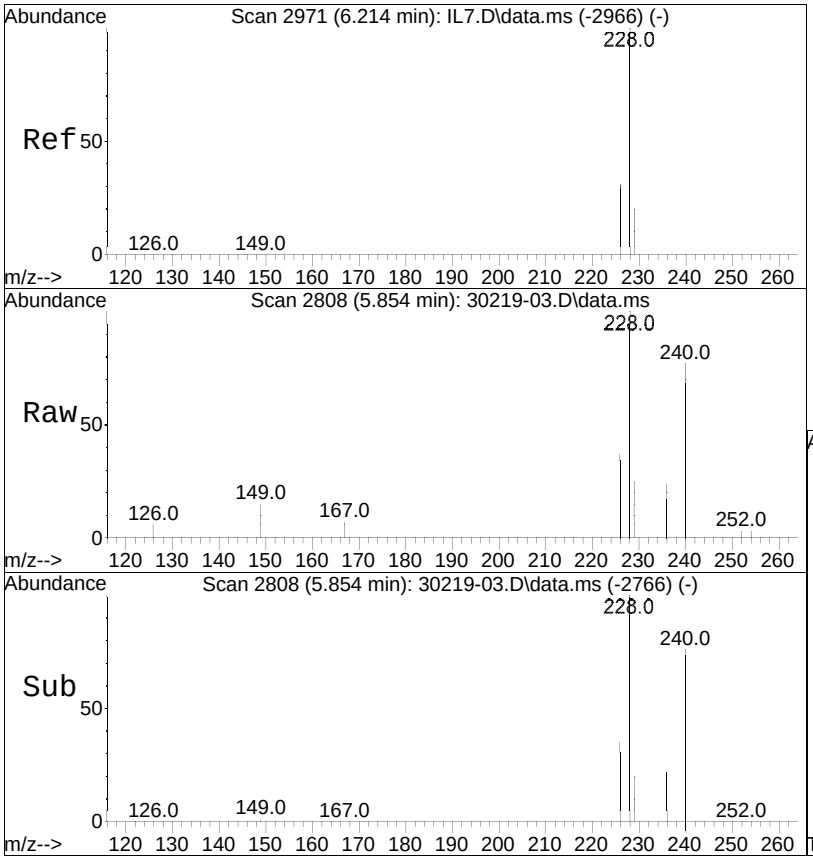


#32
Benzo[a]anthracene
Concen: 24.43 ng/ml M6
RT: 5.835 min Scan# 2799
Delta R.T. -0.008 min
Lab File: 30219-03.D
Acq: 04 Jun 2024 04:02 pm

Tgt Ion:228 Resp: 1684

Ion	Ratio	Lower	Upper
228	100		
229	29.3	15.6	23.4#

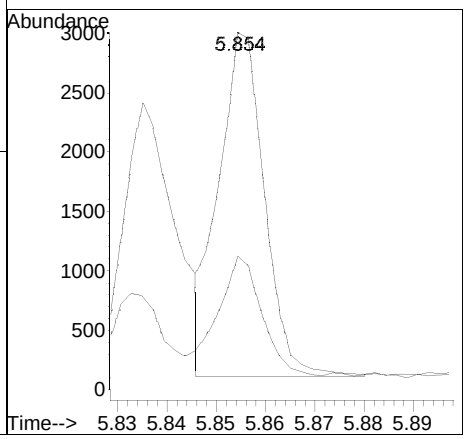


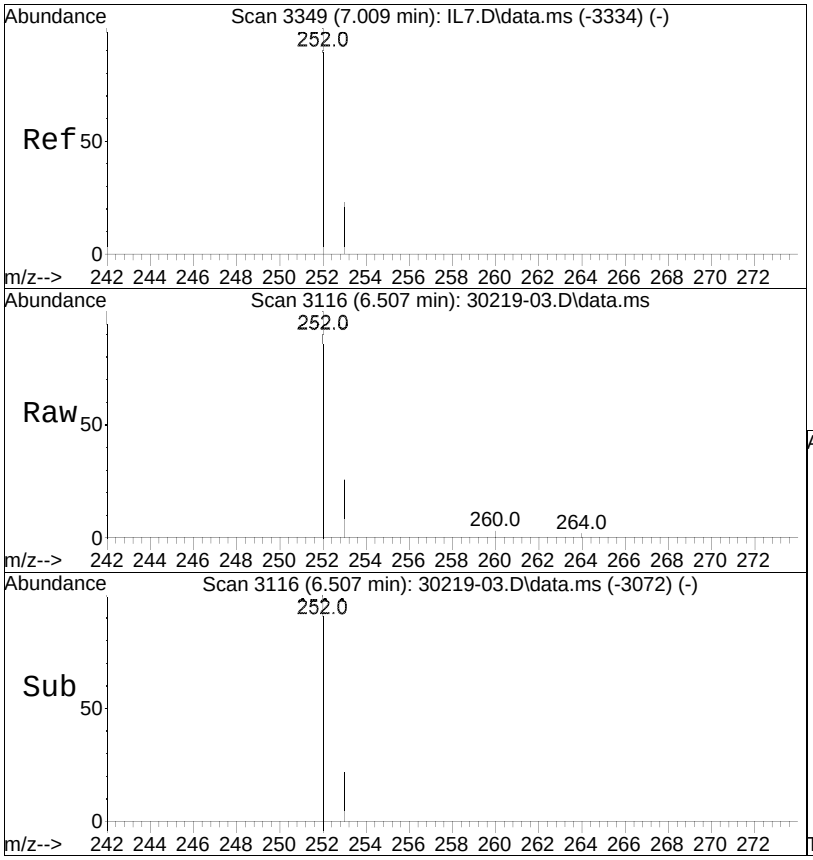


#34
Chrysene
Concen: 39.16 ng/ml M1
RT: 5.854 min Scan# 2808
Delta R.T. -0.011 min
Lab File: 30219-03.D
Acq: 04 Jun 2024 04:02 pm

Tgt Ion:228 Resp: 1866

Ion	Ratio	Lower	Upper
228	100		
226	35.3	24.5	36.7

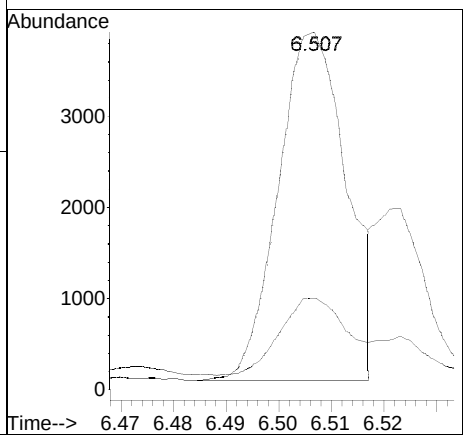


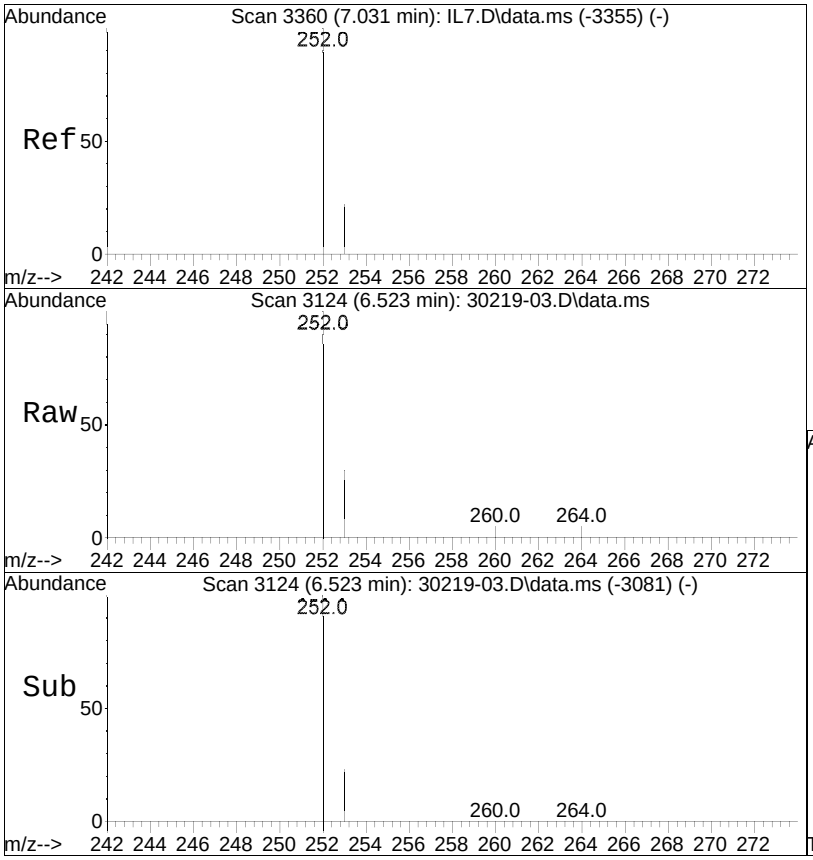


#37
Benzo[b]fluoranthene
Concen: 63.95 ng/ml
RT: 6.507 min Scan# 3116
Delta R.T. -0.010 min
Lab File: 30219-03.D
Acq: 04 Jun 2024 04:02 pm

Tgt Ion:252 Resp: 3463

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.3	25.9

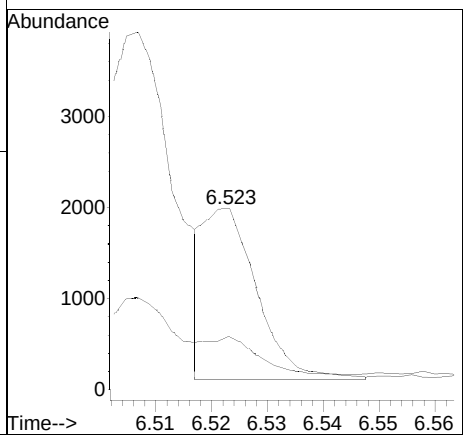


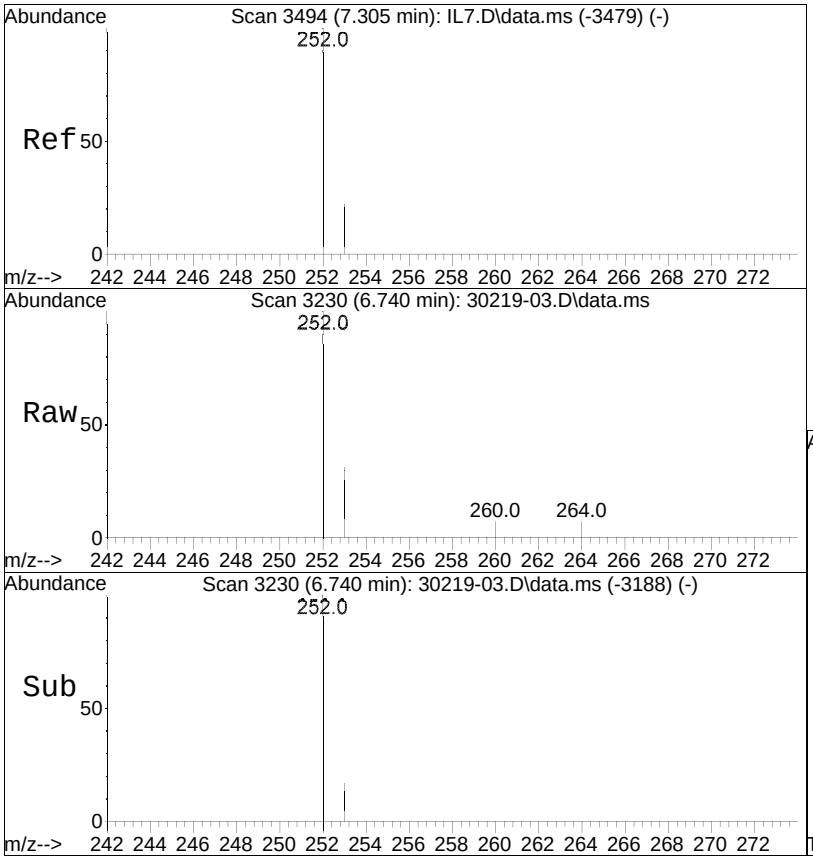


#38
Benzo[k]fluoranthene
Concen: 24.23 ng/ml M3
RT: 6.523 min Scan# 3124
Delta R.T. -0.012 min
Lab File: 30219-03.D
Acq: 04 Jun 2024 04:02 pm

Tgt Ion:252 Resp: 1246

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.2

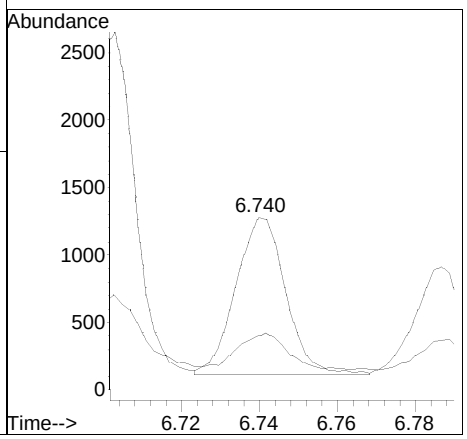


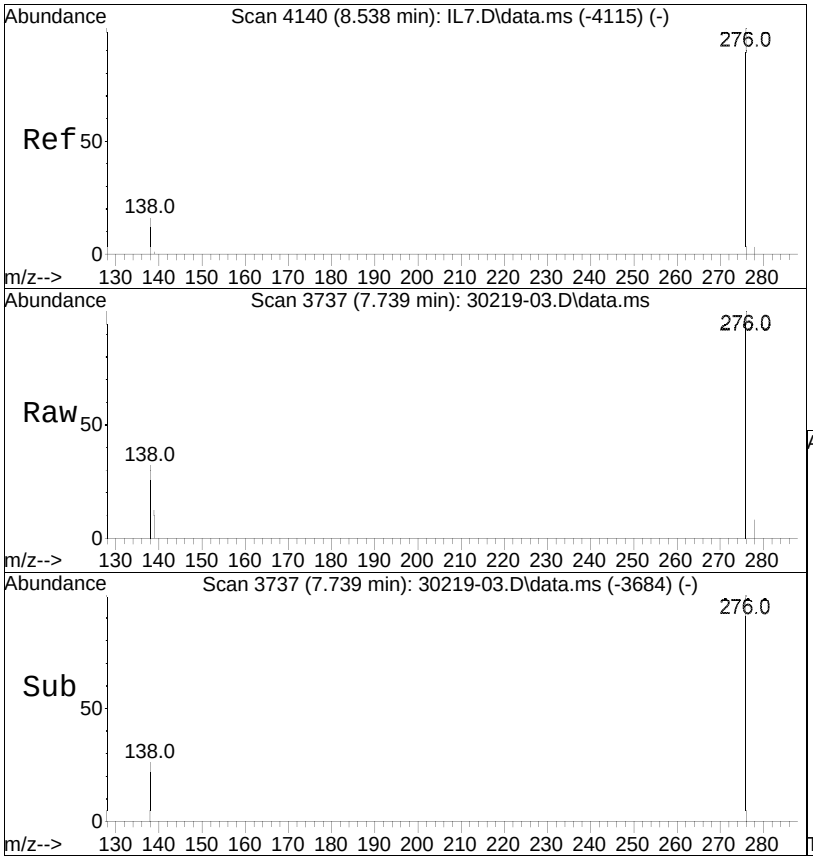


#39
Benzo[a]pyrene
Concen: 21.76 ng/ml M6
RT: 6.740 min Scan# 3230
Delta R.T. -0.014 min
Lab File: 30219-03.D
Acq: 04 Jun 2024 04:02 pm

Tgt Ion:252 Resp: 1037

Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.4	26.0

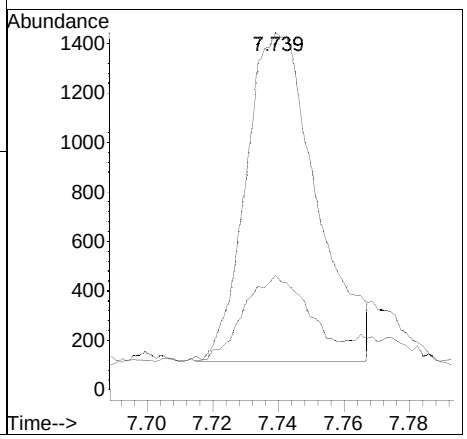


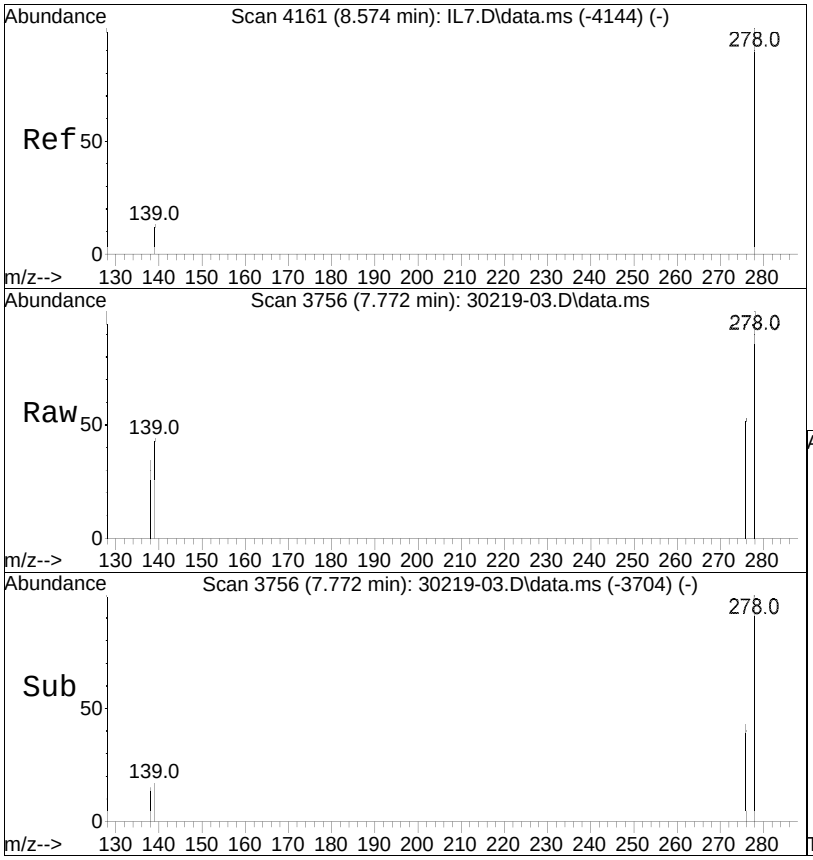


#40
Indeno[1,2,3-cd]pyrene
Concen: 37.91 ng/ml M6
RT: 7.739 min Scan# 3737
Delta R.T. -0.008 min
Lab File: 30219-03.D
Acq: 04 Jun 2024 04:02 pm

Tgt Ion:276 Resp: 1964

Ion	Ratio	Lower	Upper
276	100		
138	24.4	14.8	22.2#

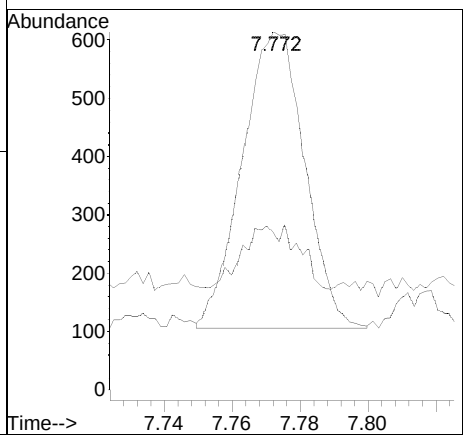


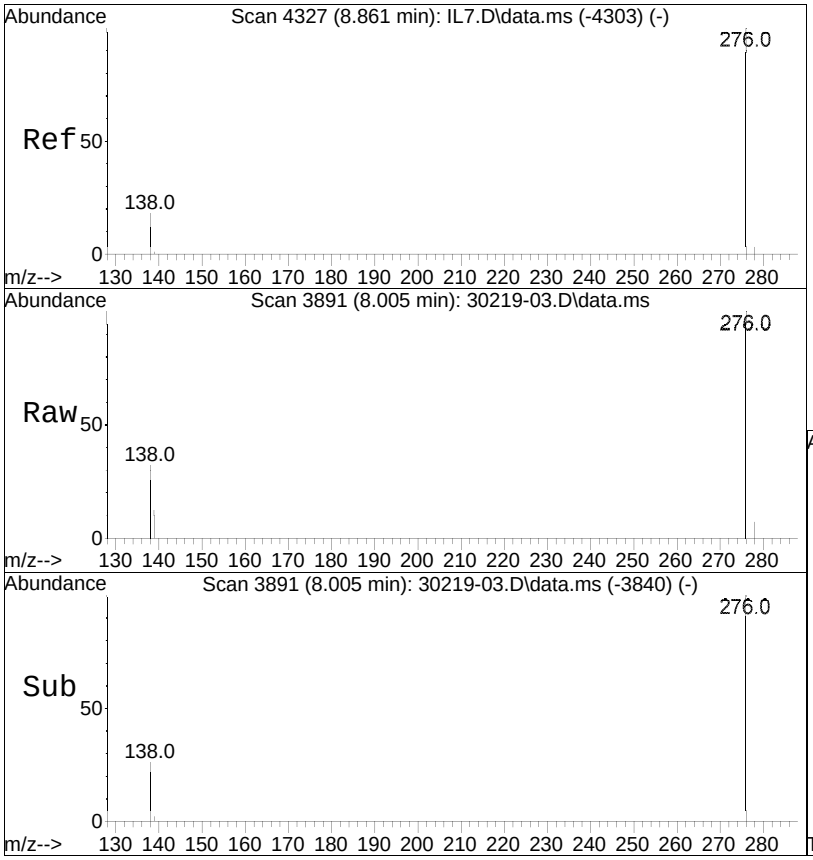


#41
Dibenzo[a,h]anthracene
Concen: 13.36 ng/ml M6
RT: 7.772 min Scan# 3756
Delta R.T. -0.010 min
Lab File: 30219-03.D
Acq: 04 Jun 2024 04:02 pm

Tgt Ion:278 Resp: 644

Ion	Ratio	Lower	Upper
278	100		
139	23.3	12.2	18.4#

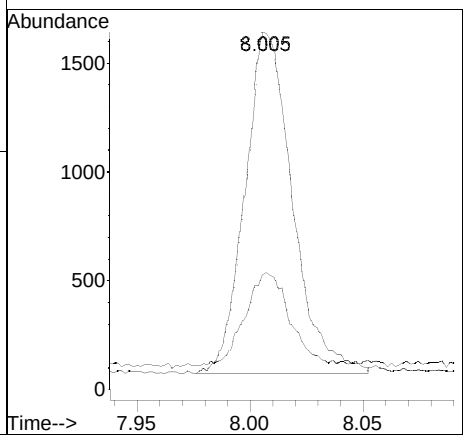




#42
Benzo[g,h,i]perylene
Concen: 43.06 ng/ml
RT: 8.005 min Scan# 3891
Delta R.T. -0.012 min
Lab File: 30219-03.D
Acq: 04 Jun 2024 04:02 pm

Tgt Ion:276 Resp: 2269

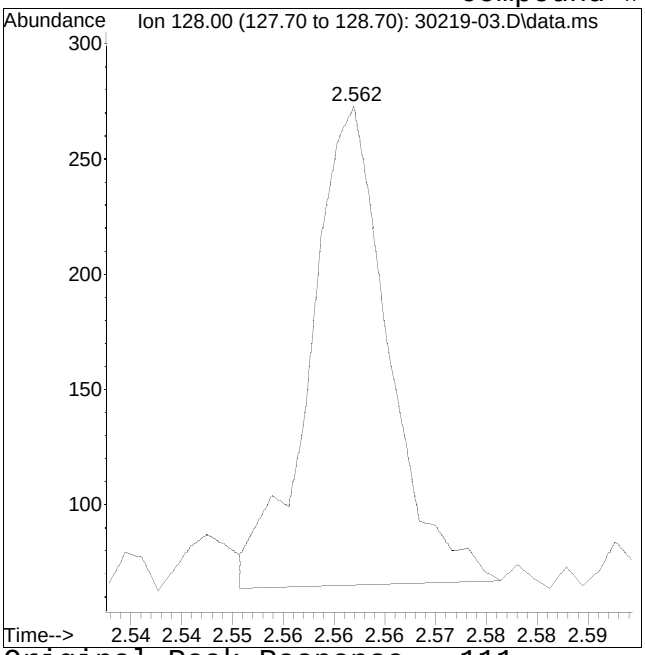
Ion	Ratio	Lower	Upper
276	100		
138	26.1	16.8	25.2#



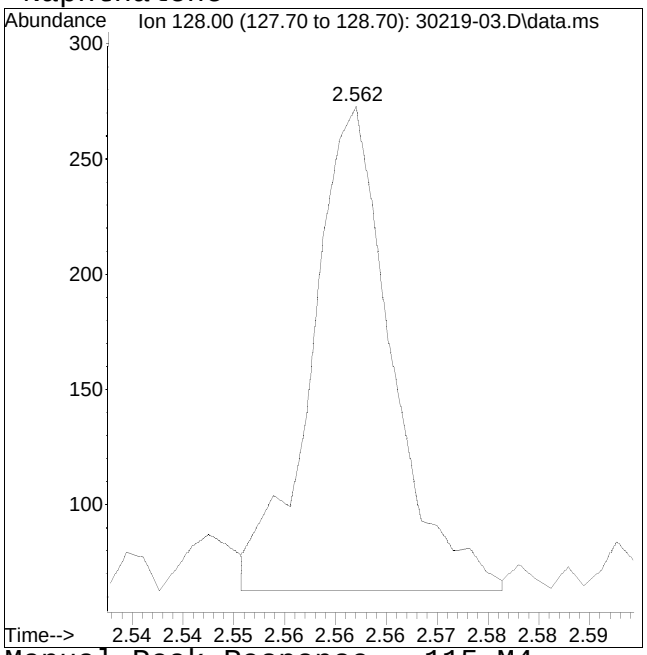
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-03.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 4:02 pm Instrument : SV119
Sample : L2430219-03,32,,ah Quant Date : 6/4/2024 4:16 pm

Compound #9: Naphthalene



Original Peak Response = 111



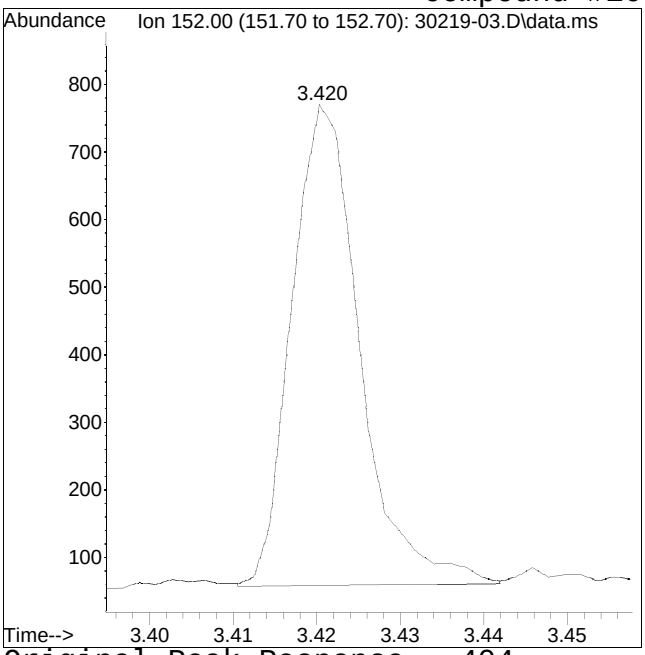
Manual Peak Response = 115 M4

M4 = Poor automated baseline construction.

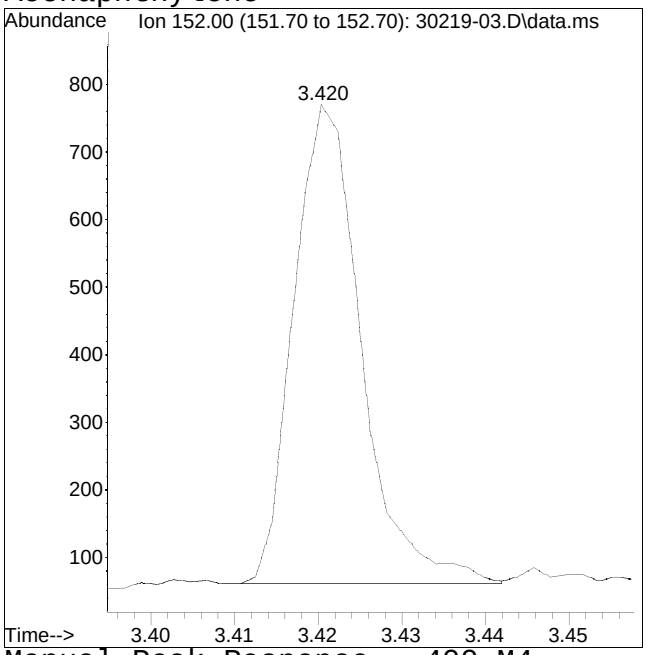
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-03.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 4:02 pm Instrument : SV119
Sample : L2430219-03,32,,ah Quant Date : 6/4/2024 4:16 pm

Compound #16: Acenaphthylene



Original Peak Response = 404



Manual Peak Response = 400 M4

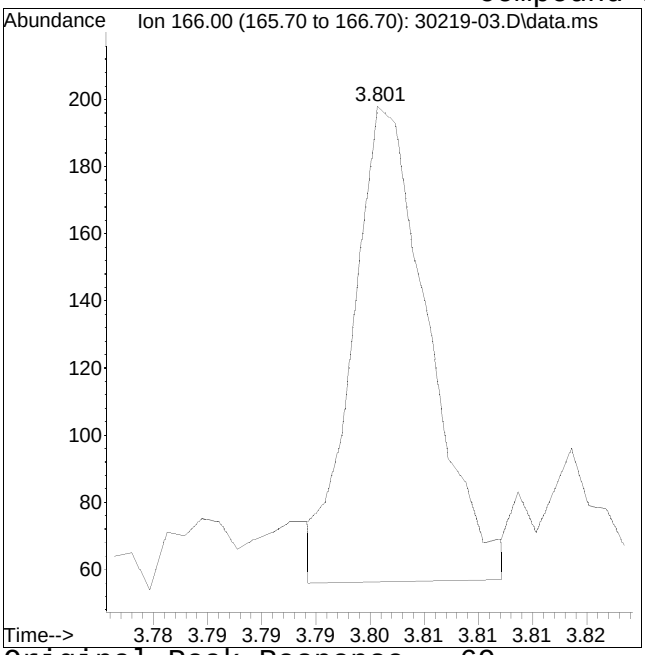
M4 = Poor automated baseline construction.

Manual Integration Report

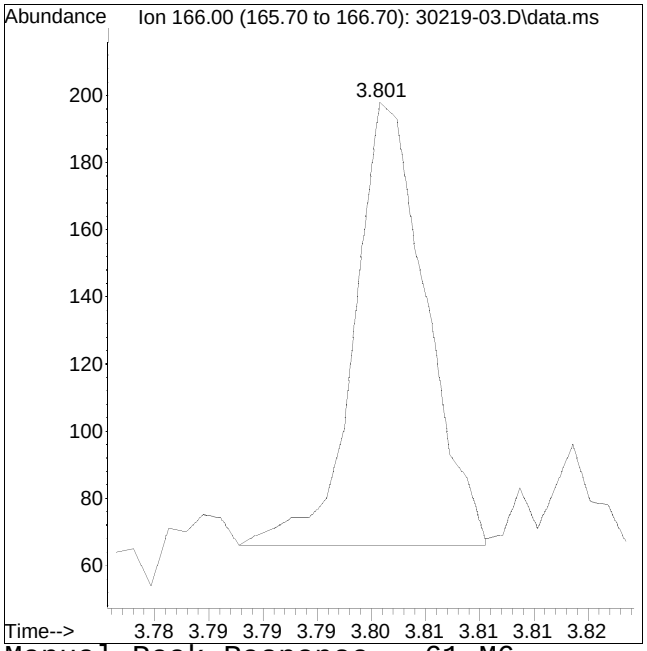
Data Path : I:\8270SIM\sv119\240604LVIQ
Data File : 30219-03.D
Date Inj'd : 6/4/2024 4:02 pm
Sample : L2430219-03,32,,ah

Method : SIM-LVI_231207n_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 6/4/2024 4:16 pm

Compound #20: Fluorene



Original Peak Response = 69



Manual Peak Response = 61 M6

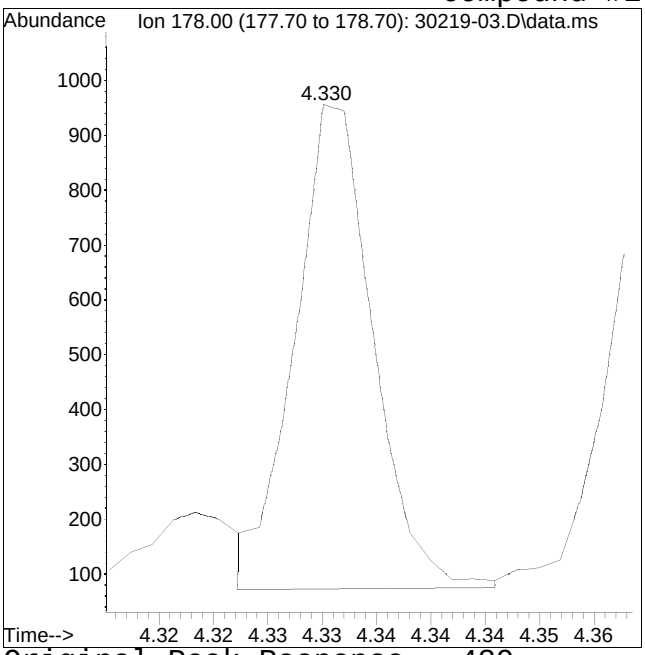
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

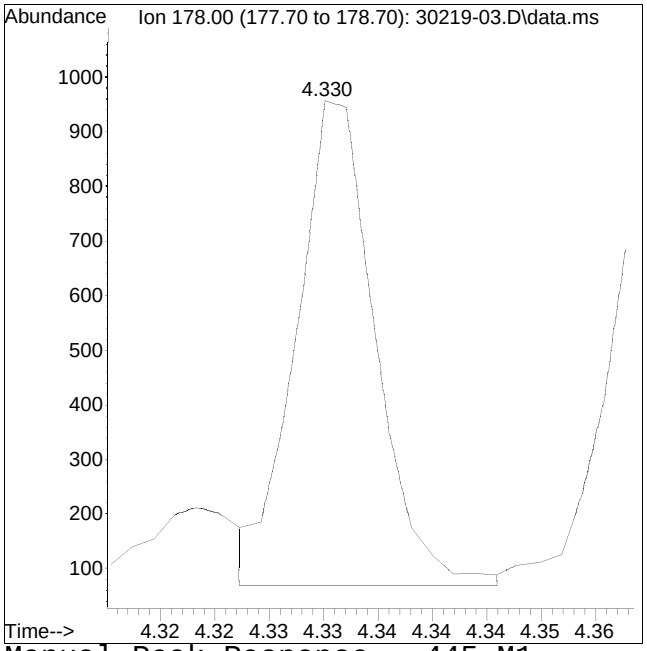
Data Path : I:\8270SIM\sv119\240604LVIQ
Data File : 30219-03.D
Date Inj'd : 6/4/2024 4:02 pm
Sample : L2430219-03,32,,ah

Method : SIM-LVI_231207n_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 6/4/2024 4:16 pm

Compound #26: Phenanthrene



Original Peak Response = 439



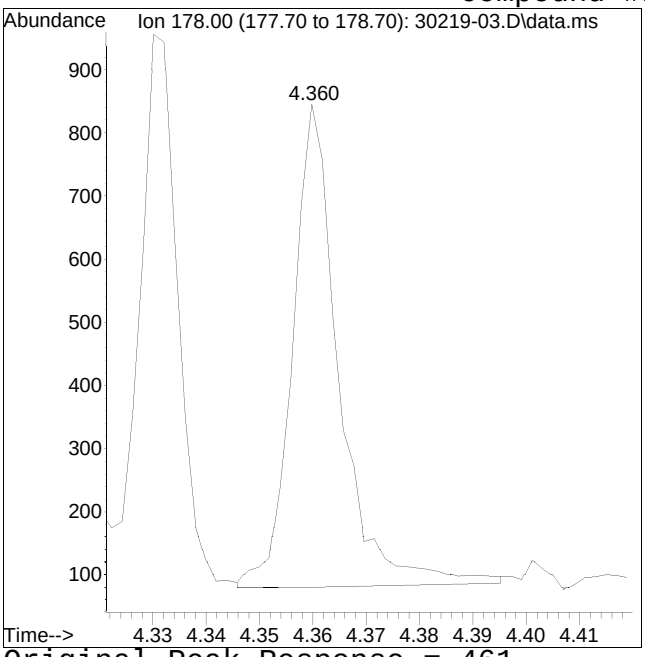
Manual Peak Response = 445 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

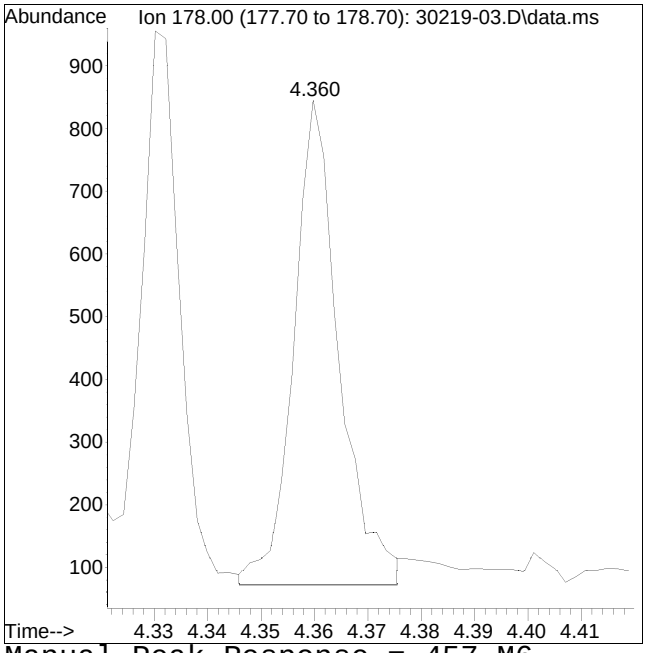
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-03.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 4:02 pm Instrument : SV119
Sample : L2430219-03,32,,ah Quant Date : 6/4/2024 4:16 pm

Compound #27: Anthracene



Original Peak Response = 461



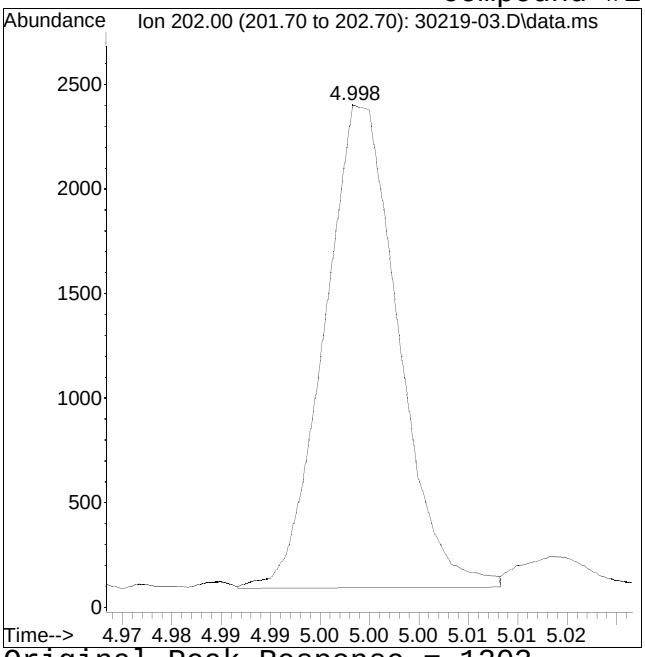
Manual Peak Response = 457 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

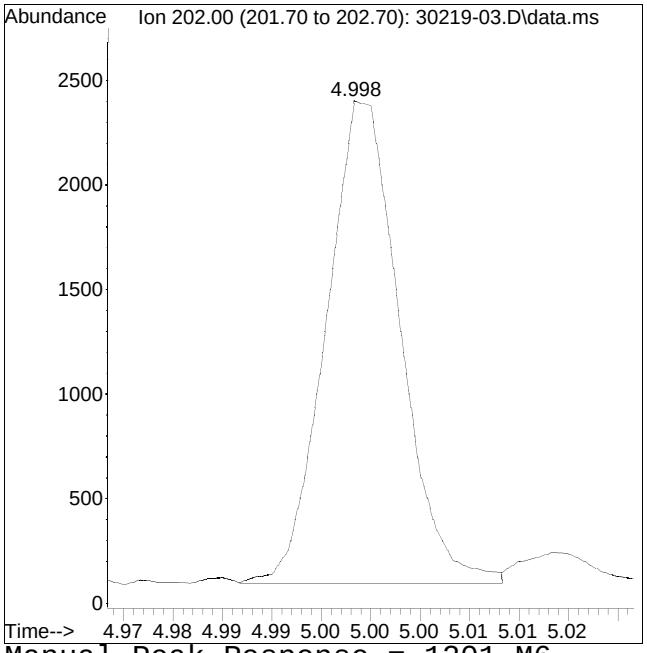
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-03.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 4:02 pm Instrument : SV119
Sample : L2430219-03,32,,ah Quant Date : 6/4/2024 4:16 pm

Compound #28: Fluoranthene



Original Peak Response = 1203



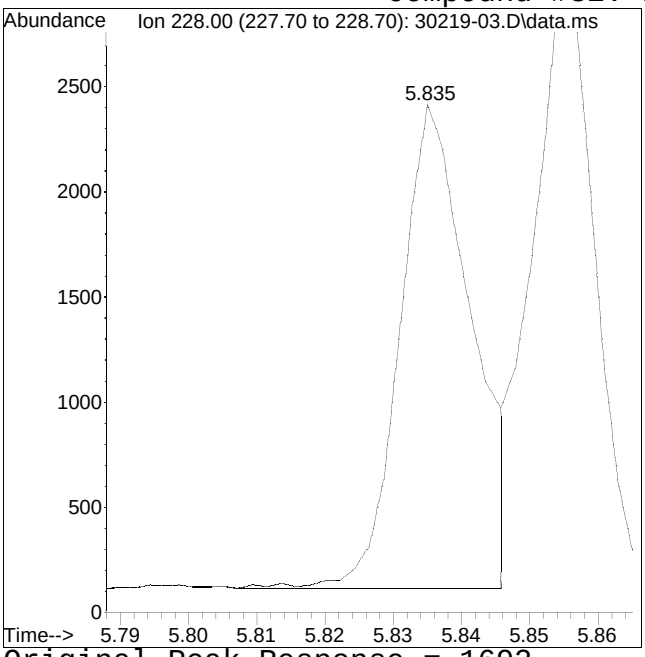
Manual Peak Response = 1201 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

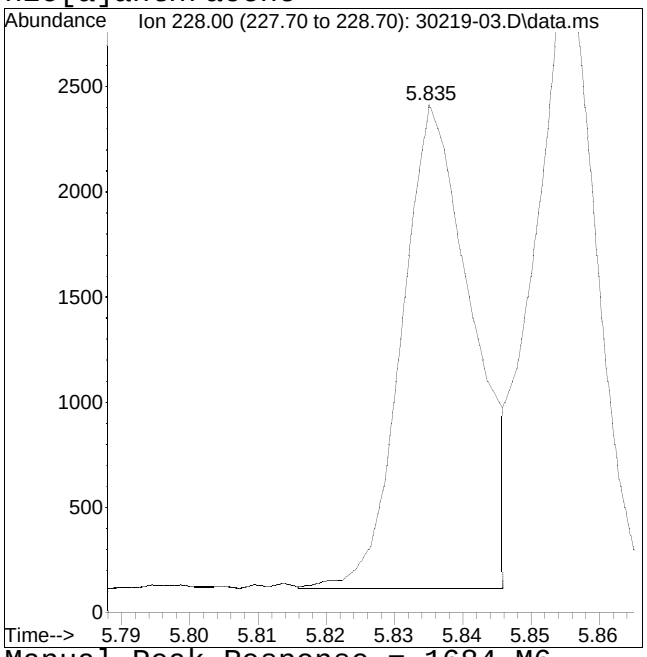
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-03.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 4:02 pm Instrument : SV119
Sample : L2430219-03,32,,ah Quant Date : 6/4/2024 4:16 pm

Compound #32: Benzo[a]anthracene



Original Peak Response = 1692



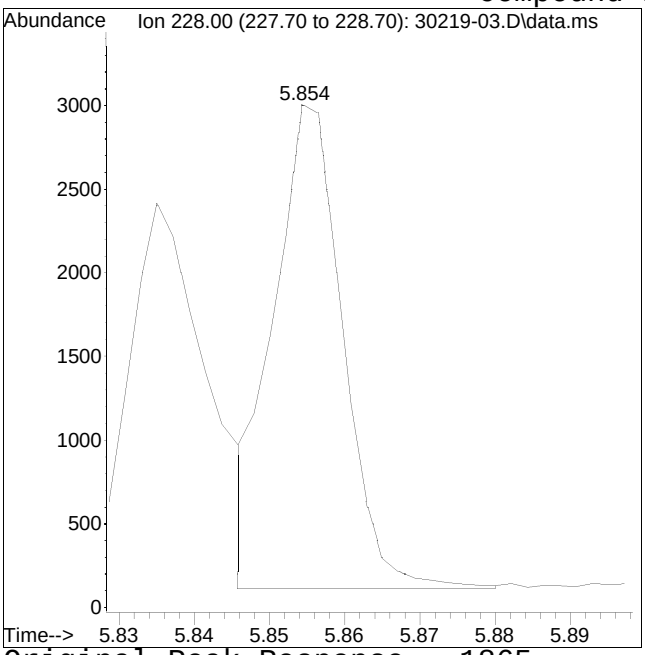
Manual Peak Response = 1684 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

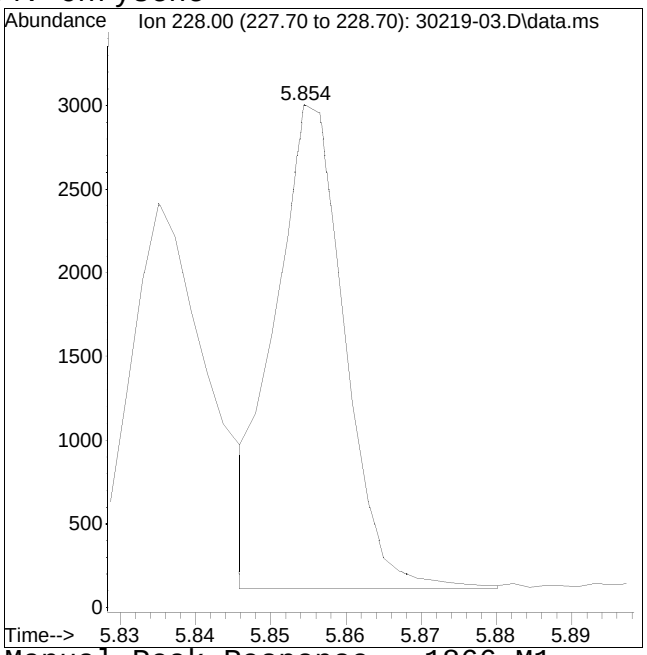
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-03.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 4:02 pm Instrument : SV119
Sample : L2430219-03,32,,ah Quant Date : 6/4/2024 4:16 pm

Compound #34: Chrysene



Original Peak Response = 1865



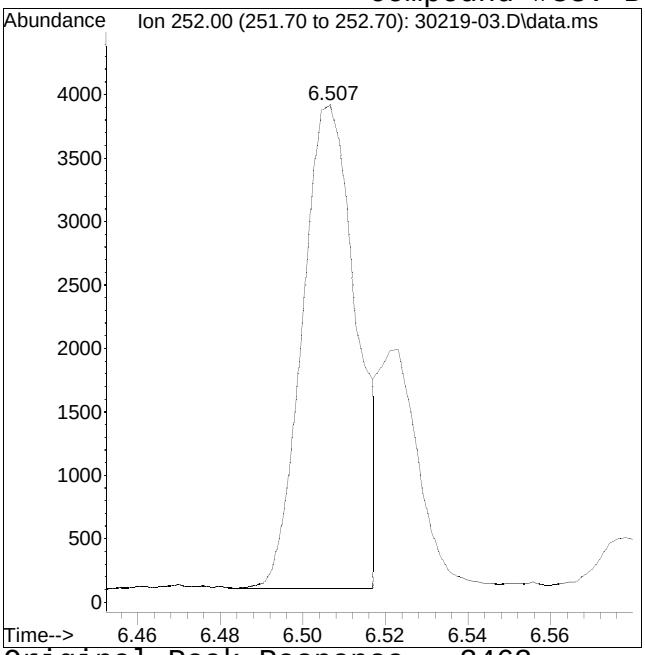
Manual Peak Response = 1866 M1

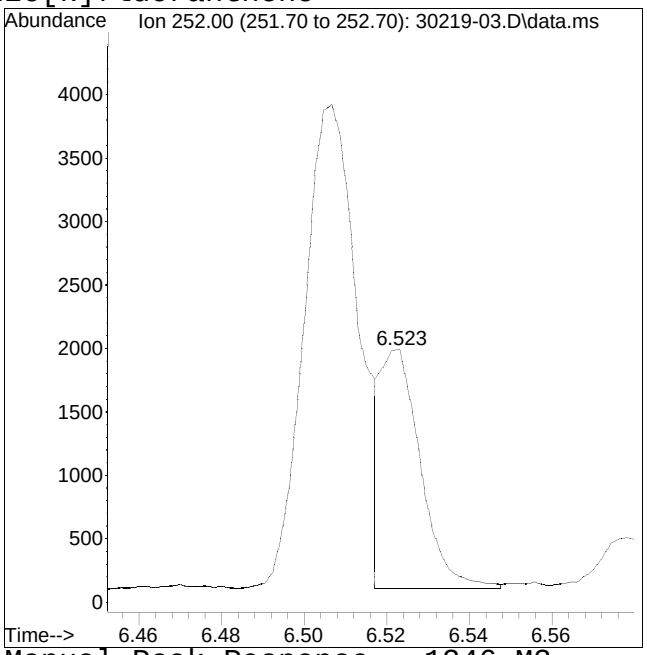
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-03.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 4:02 pm Instrument : SV119
Sample : L2430219-03,32,,ah Quant Date : 6/4/2024 4:16 pm

Compound #38: Benzo[k]fluoranthene





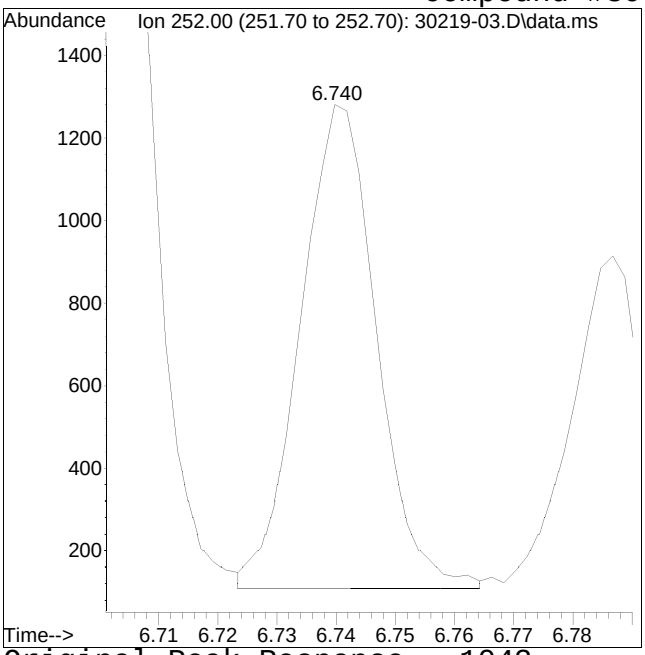
Original Peak Response = 3463 Manual Peak Response = 1246 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

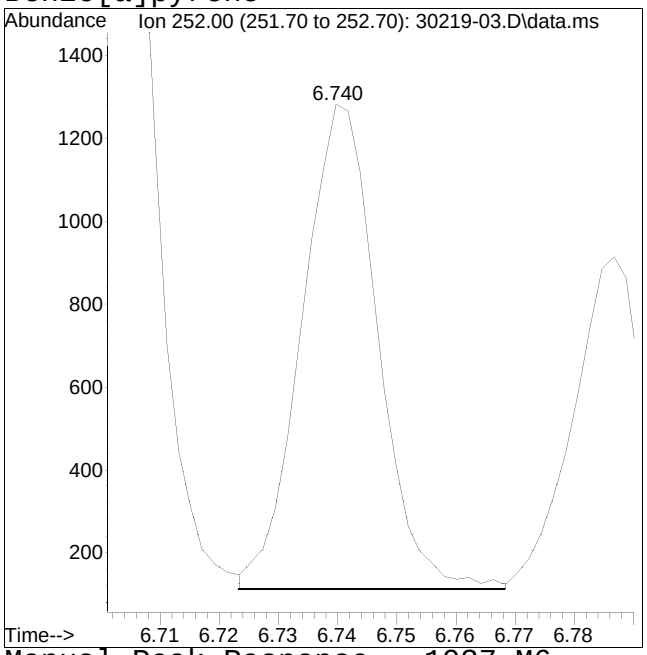
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-03.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 4:02 pm Instrument : SV119
Sample : L2430219-03,32,,ah Quant Date : 6/4/2024 4:16 pm

Compound #39: Benzo[a]pyrene



Original Peak Response = 1043



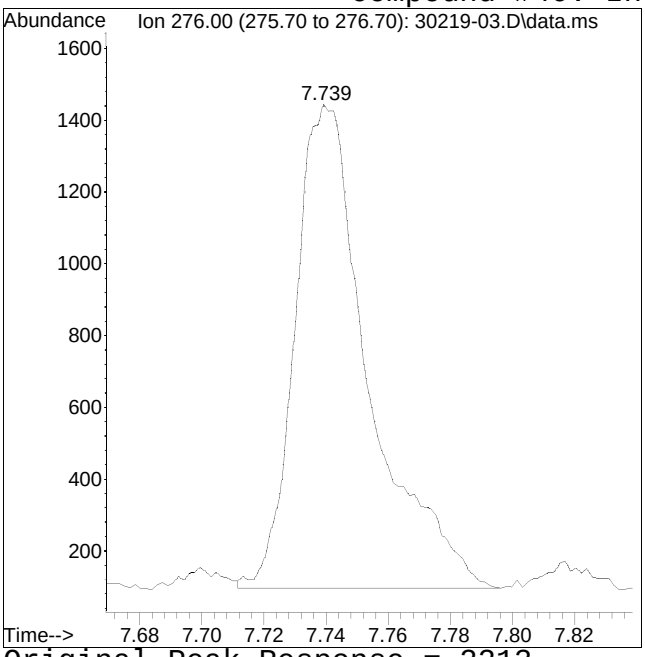
Manual Peak Response = 1037 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

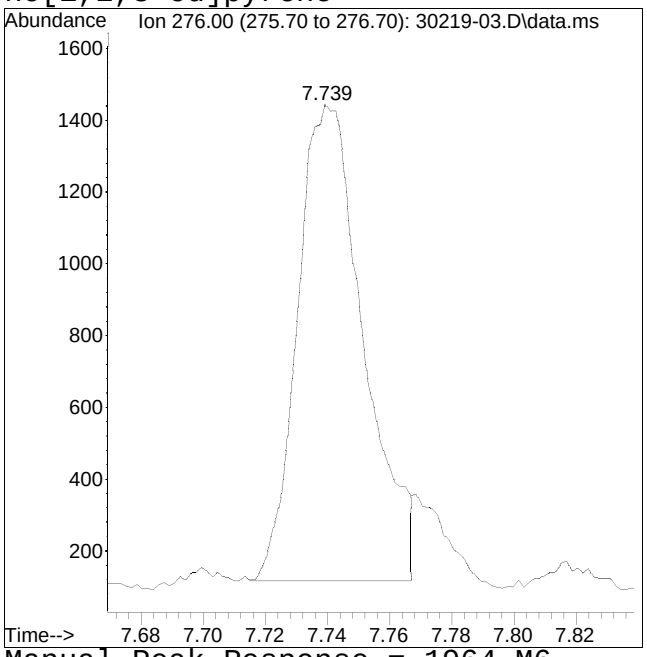
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-03.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 4:02 pm Instrument : SV119
Sample : L2430219-03,32,,ah Quant Date : 6/4/2024 4:16 pm

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 2213



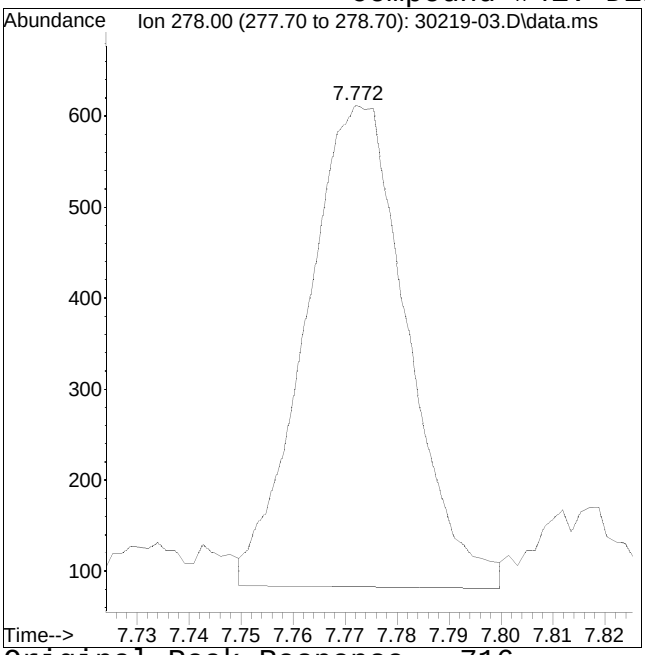
Manual Peak Response = 1964 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

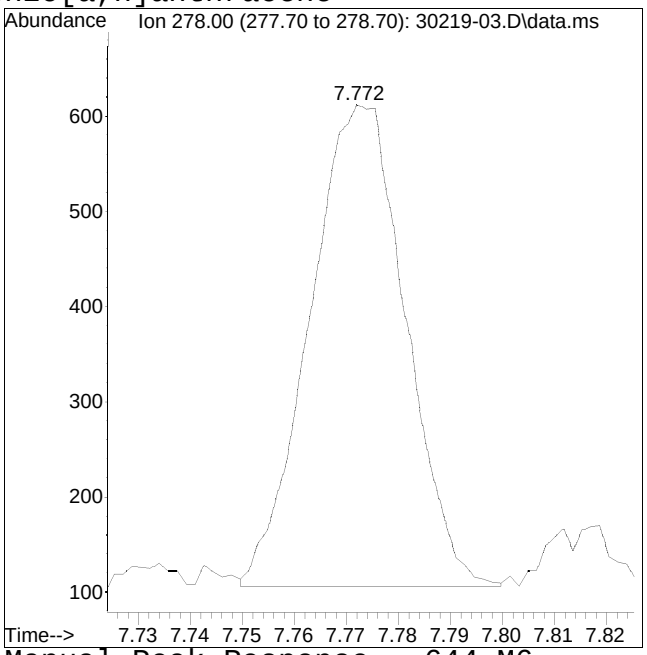
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-03.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 4:02 pm Instrument : SV119
Sample : L2430219-03,32,,ah Quant Date : 6/4/2024 4:16 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 716



Manual Peak Response = 644 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 30219-05.D
Acq On : 04 Jun 2024 04:18 pm
Operator : sv119:jjw
Sample : L2430219-05,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jun 06 11:21:38 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240604LVI\ccv0604.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.907	152	46369	4000.000	ng/ml	0.00
Standard Area 1 = 56492			Recovery = 82.08%			
8) Naphthalene-d8	2.550	136	154501	4000.000	ng/ml	0.00
Standard Area 1 = 186100			Recovery = 83.02%			
17) Acenaphthene-d10	3.500	164	81181	4000.000	ng/ml	0.00
Standard Area 1 = 98337			Recovery = 82.55%			
22) Phenanthrene-d10	4.318	188	173217	4000.000	ng/ml	0.00
Standard Area 1 = 215749			Recovery = 80.29%			
31) Chrysene-d12	5.845	240	155265	4000.000	ng/ml	0.00
Standard Area 1 = 188074			Recovery = 82.56%			
36) Perylene-d12	6.793	264	163405	4000.000	ng/ml	0.00
Standard Area 1 = 198758			Recovery = 82.21%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.341	112	42936	3385.401	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 67.71%			
3) Phenol-d6	1.744	99	44350	2917.253	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 58.35%			
7) Nitrobenzene-d5	2.185	82	26845	2327.901	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 93.12%			
13) 2-Fluorobiphenyl	3.139	172	62140	1800.844	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 72.03%			
21) 2,4,6-Tribromophenol	3.937	330	25437	5683.435	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 113.67%#			
30) 4-Terphenyl-d14	5.232	244	68224	1606.653	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 64.27%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	2.562	128	97460	2641.784	ng/ml	100
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	2.933	142	5636	206.618	ng/ml	99
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	3.420	152	4529	104.889	ng/ml	98
18) Acenaphthene	3.518	153	275M6	10.958	ng/ml	
20) Fluorene	3.802	166	3566	118.873	ng/ml	99
24) Hexachlorobenzene	0.000		0	N.D.	d	
25) Pentachlorophenol	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 30219-05.D
Acq On : 04 Jun 2024 04:18 pm
Operator : sv119:jjw
Sample : L2430219-05,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jun 06 11:21:38 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240604LVI\ccv0604.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.330	178	4222M6	95.954	ng/ml	
27) Anthracene	4.359	178	578M1	13.247	ng/ml	
28) Fluoranthene	5.000	202	701M1	12.088	ng/ml	
29) Pyrene	5.126	202	538M6	9.030	ng/ml	
32) Benzo[a]anthracene	5.843	228	836	5.503	ng/ml#	75
34) Chrysene	5.858	228	338M4	6.596	ng/ml	
37) Benzo[b]fluoranthene	6.511	252	890M6	15.590	ng/ml	
38) Benzo[k]fluoranthene	6.527	252	289M3	5.331	ng/ml	
39) Benzo[a]pyrene	6.748	252	173M4	3.443	ng/ml	
40) Indeno[1,2,3-cd]pyrene	7.745	276	440	8.057	ng/ml#	85
41) Dibenzo[a,h]anthracene	7.775	278	113M6	2.224	ng/ml	
42) Benzo[g,h,i]perylene	8.013	276	477M7	8.587	ng/ml	

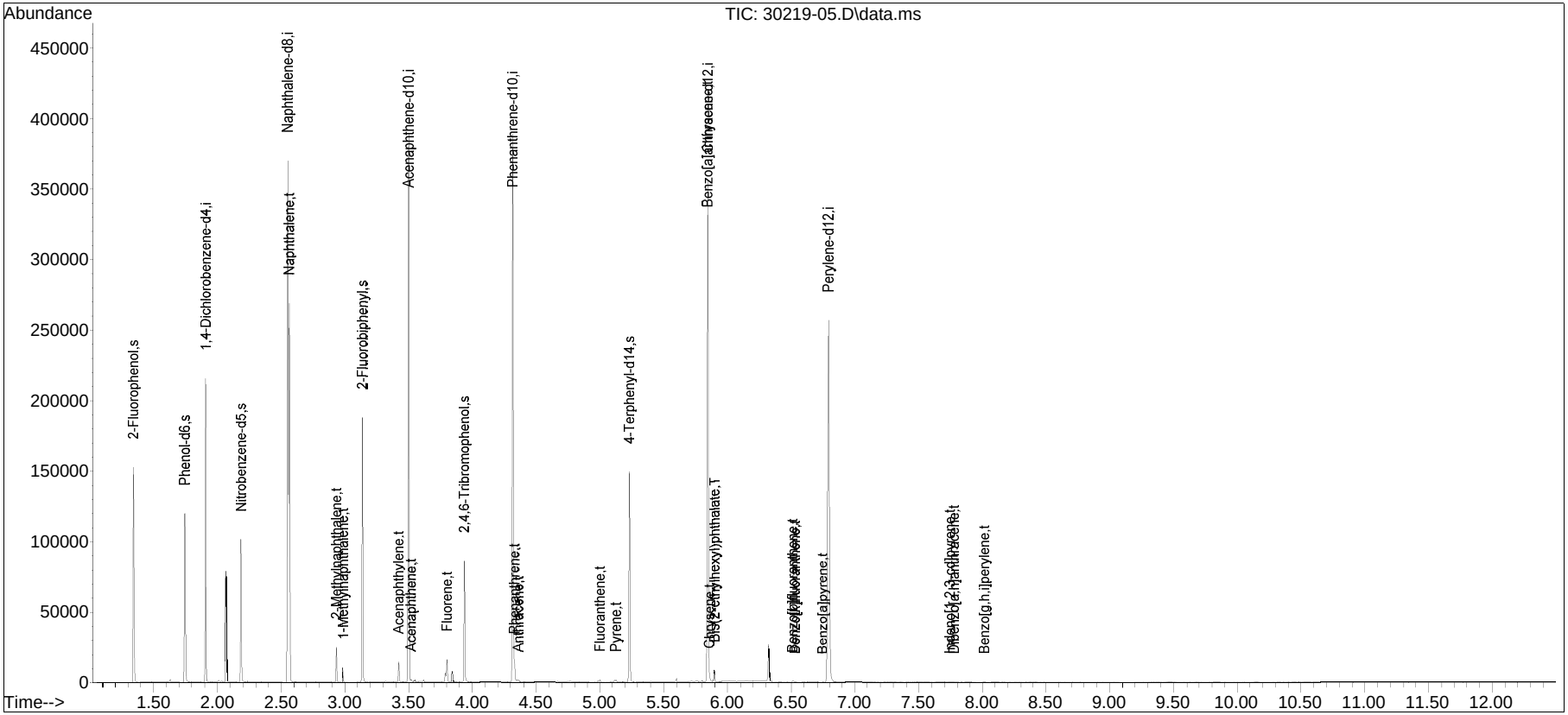
(#) = qualifier out of range (m) = manual integration (+) = signals summed

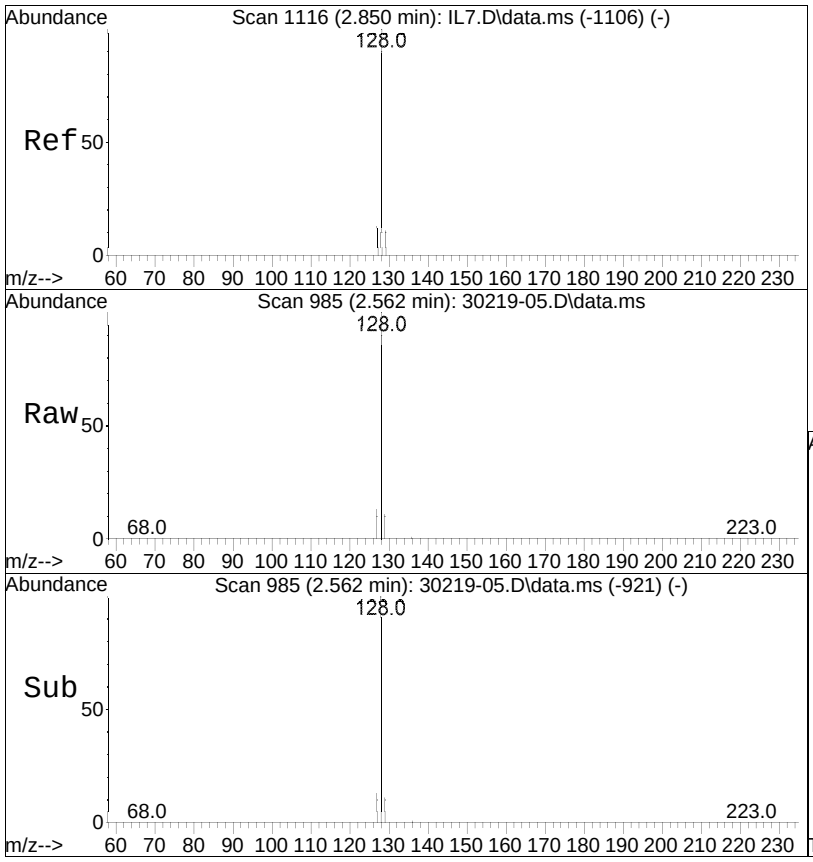
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 30219-05.D
Acq On : 04 Jun 2024 04:18 pm
Operator : sv119:jjw
Sample : L2430219-05,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jun 06 11:21:38 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0604.D•

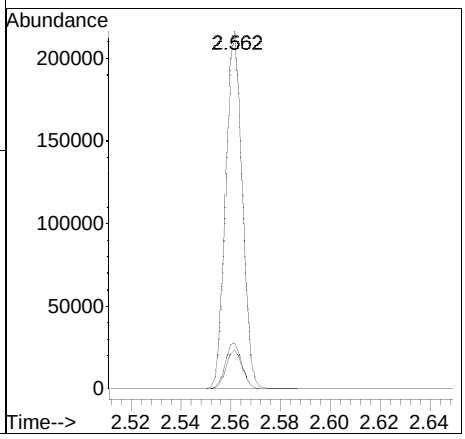


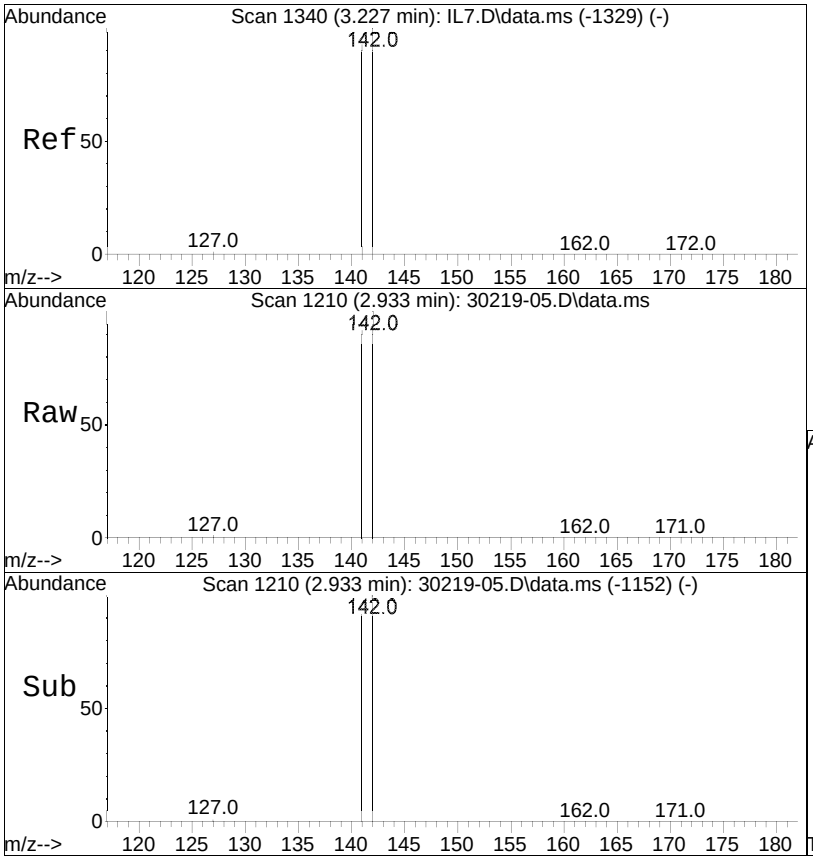


#9
Naphthalene
Concen: 2641.78 ng/ml
RT: 2.562 min Scan# 985
Delta R.T. 0.003 min
Lab File: 30219-05.D
Acq: 04 Jun 2024 04:18 pm

Tgt Ion:128 Resp: 97460

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.1	10.6	15.8

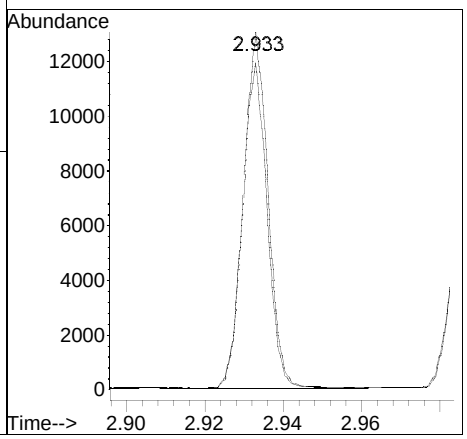


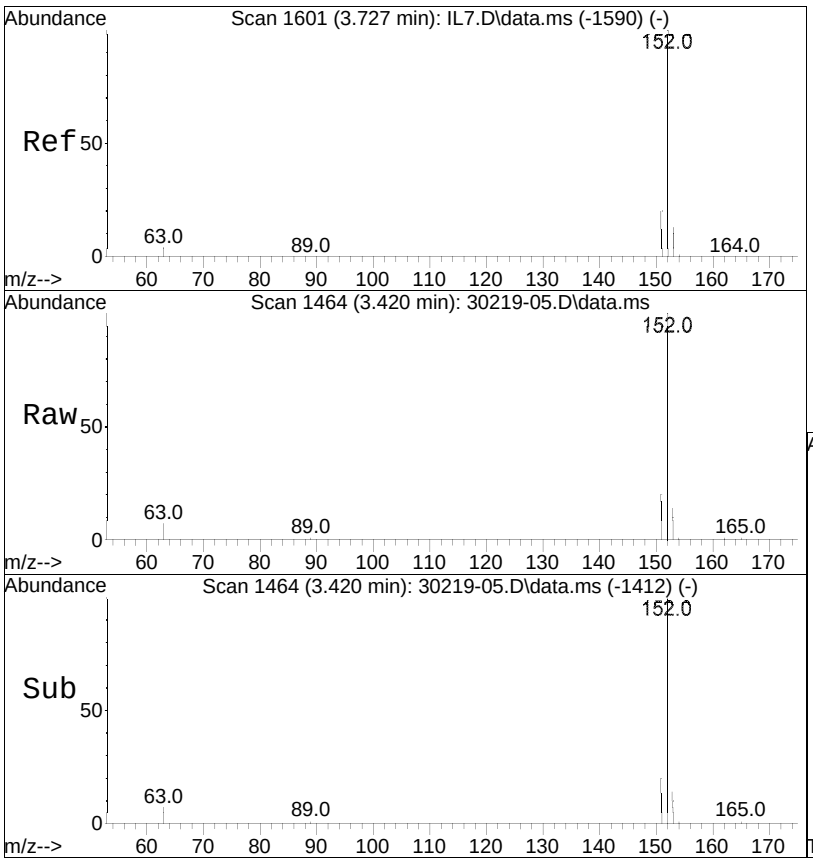


#11
2-Methylnaphthalene
Concen: 206.62 ng/ml
RT: 2.933 min Scan# 1210
Delta R.T. 0.004 min
Lab File: 30219-05.D
Acq: 04 Jun 2024 04:18 pm

Tgt Ion:142 Resp: 5636

Ion	Ratio	Lower	Upper
142	100		
141	91.9	74.1	111.1

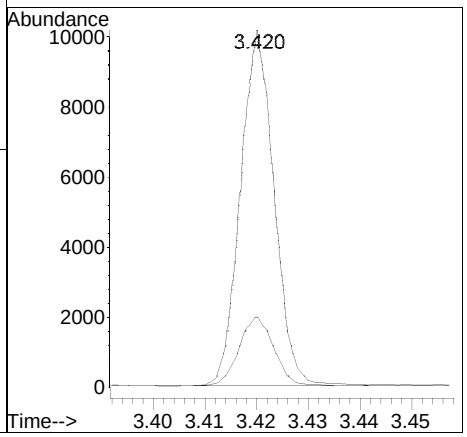


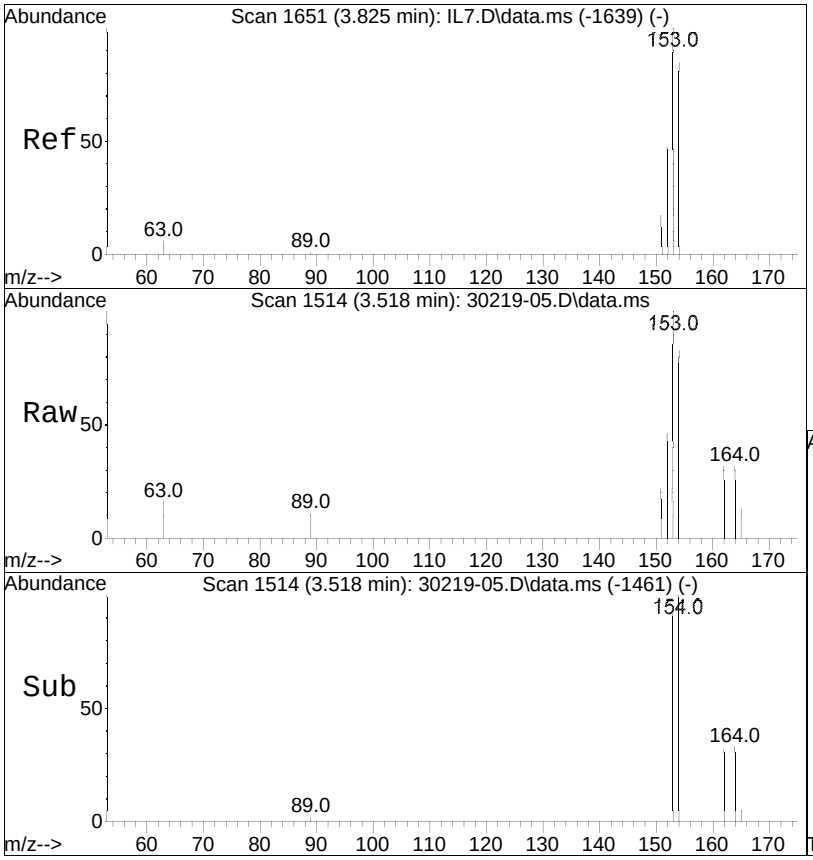


#16
Acenaphthylene
Concen: 104.89 ng/ml
RT: 3.420 min Scan# 1464
Delta R.T. 0.002 min
Lab File: 30219-05.D
Acq: 04 Jun 2024 04:18 pm

Tgt Ion:152 Resp: 4529

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.0	24.0

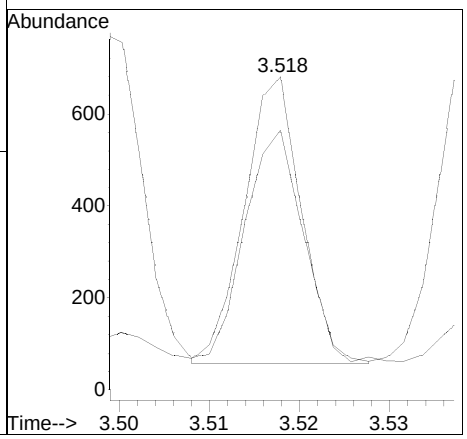


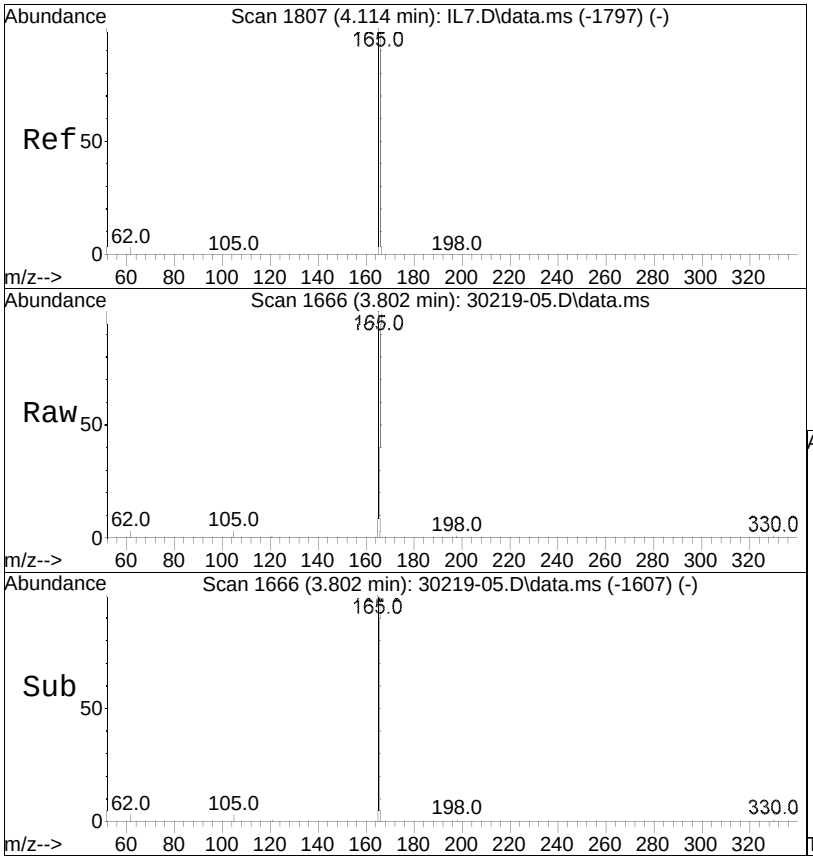


#18
Acenaphthene
Concen: 10.96 ng/ml M6
RT: 3.518 min Scan# 1514
Delta R.T. 0.004 min
Lab File: 30219-05.D
Acq: 04 Jun 2024 04:18 pm

Tgt Ion:153 Resp: 275

Ion	Ratio	Lower	Upper
153	100		
154	88.4	66.9	100.3

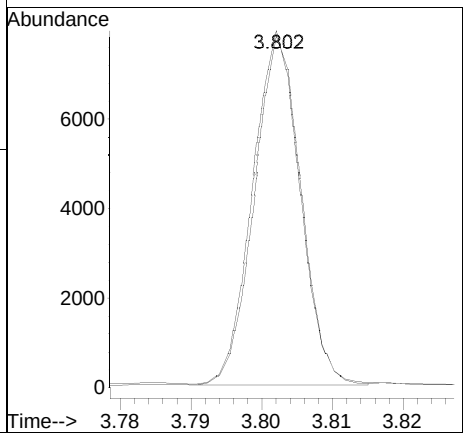


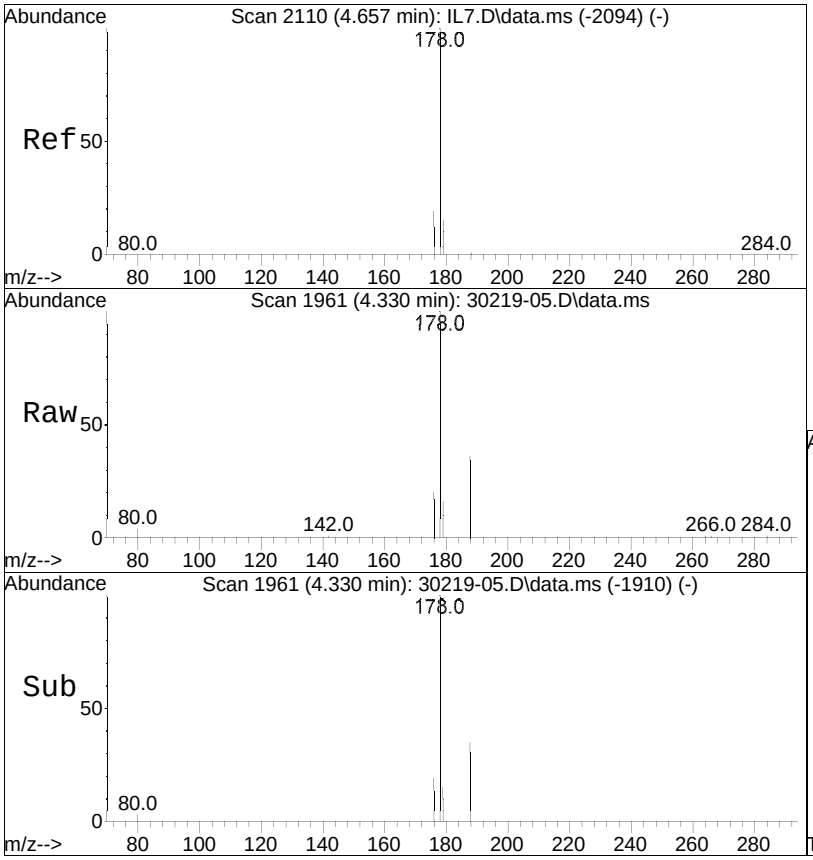


#20
Fluorene
Concen: 118.87 ng/ml
RT: 3.802 min Scan# 1666
Delta R.T. 0.001 min
Lab File: 30219-05.D
Acq: 04 Jun 2024 04:18 pm

Tgt Ion:166 Resp: 3566

Ion	Ratio	Lower	Upper
166	100		
165	103.1	82.9	124.3

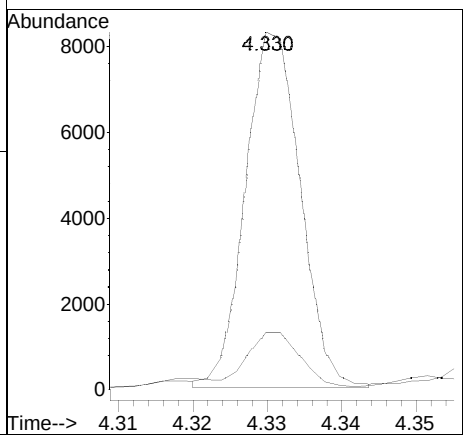


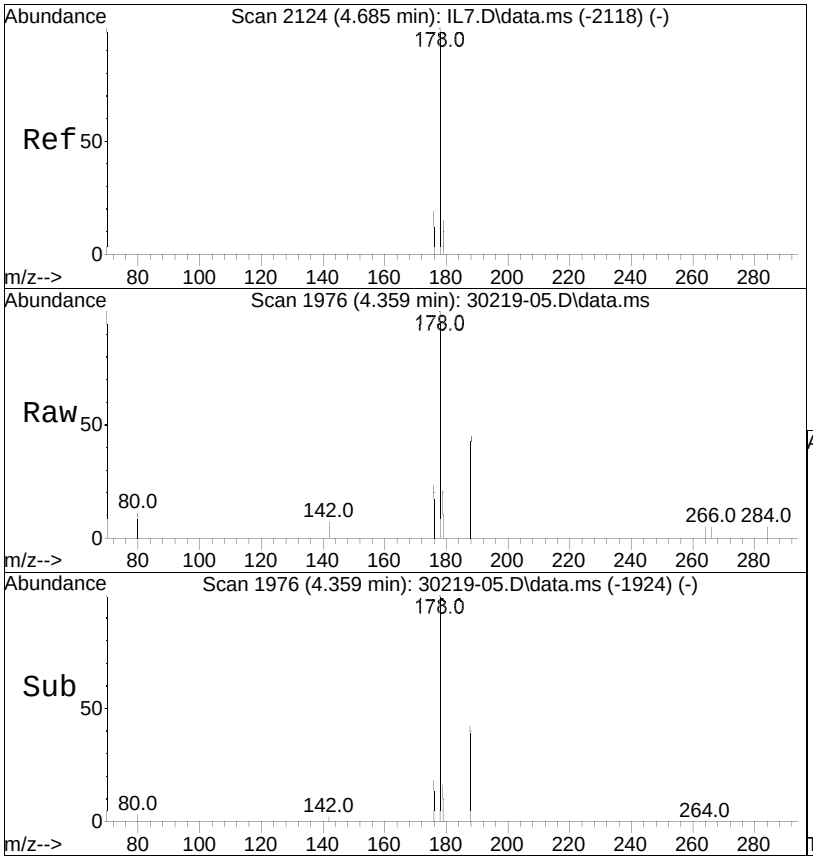


#26
Phenanthrene
Concen: 95.95 ng/ml M6
RT: 4.330 min Scan# 1961
Delta R.T. -0.000 min
Lab File: 30219-05.D
Acq: 04 Jun 2024 04:18 pm

Tgt Ion:178 Resp: 4222

Ion	Ratio	Lower	Upper
178	100		
179	17.5	12.3	18.5

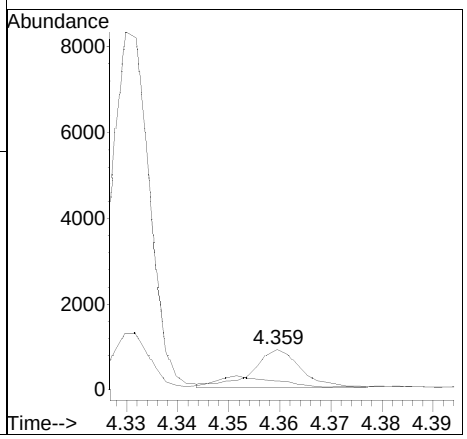


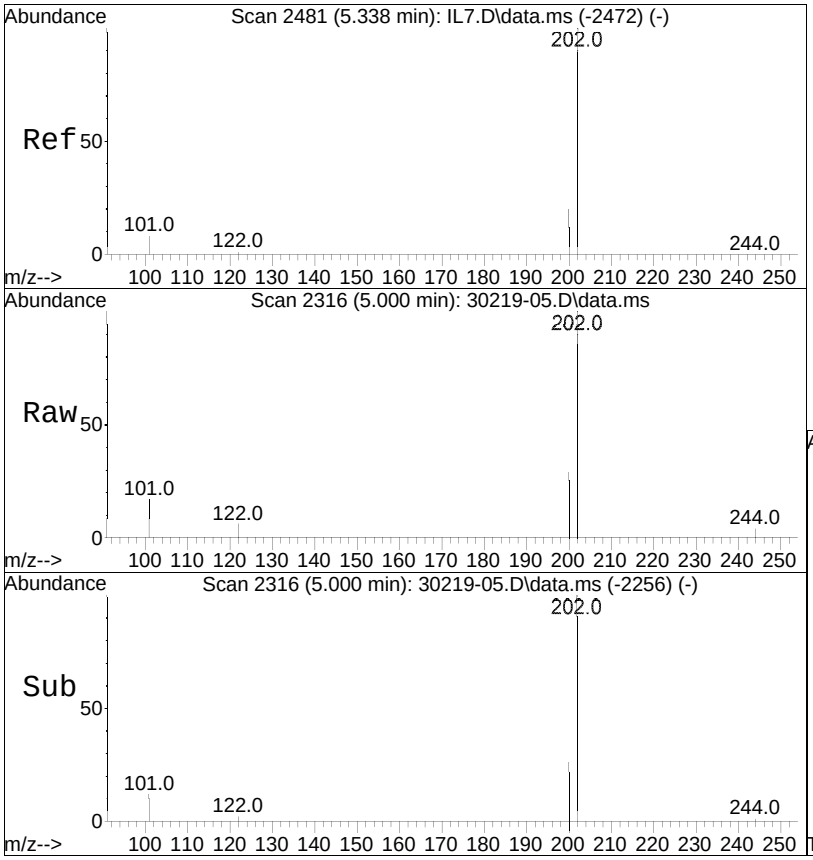


#27
Anthracene
Concen: 13.25 ng/ml M1
RT: 4.359 min Scan# 1976
Delta R.T. 0.002 min
Lab File: 30219-05.D
Acq: 04 Jun 2024 04:18 pm

Tgt Ion:178 Resp: 578

Ion	Ratio	Lower	Upper
178	100		
179	34.3	12.2	18.4#

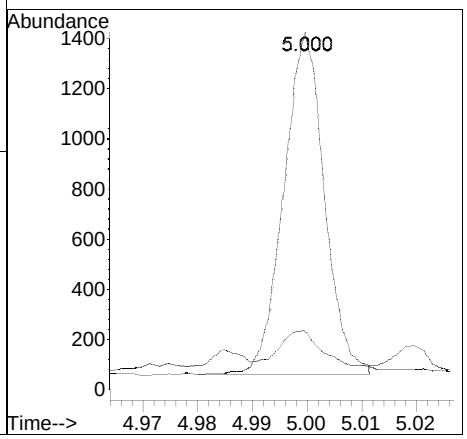


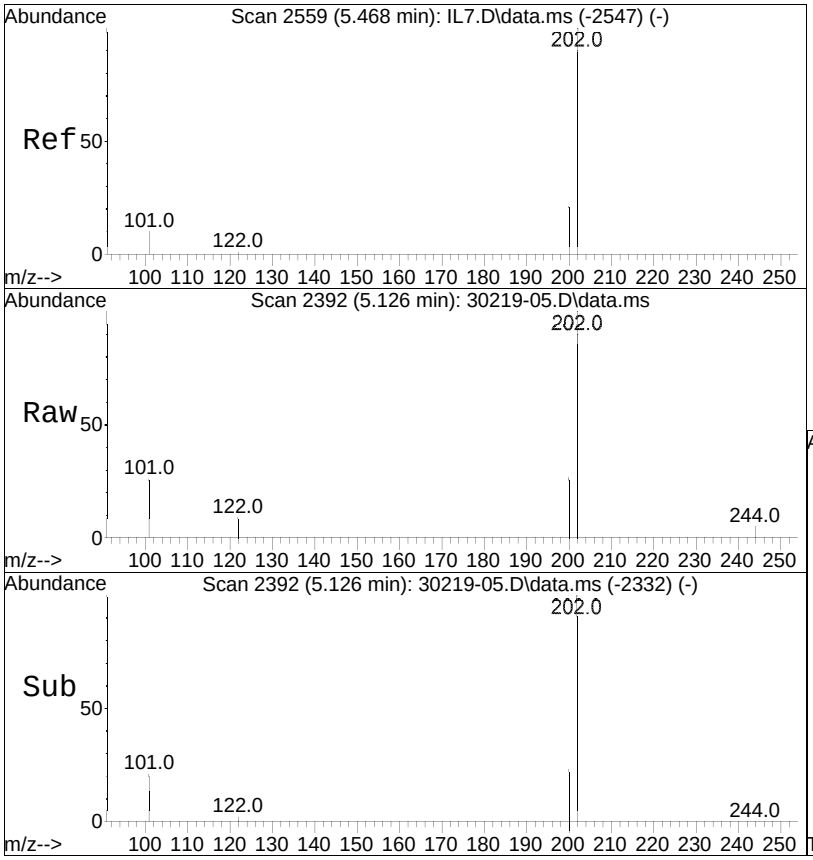


#28
Fluoranthene
Concen: 12.09 ng/ml M1
RT: 5.000 min Scan# 2316
Delta R.T. -0.000 min
Lab File: 30219-05.D
Acq: 04 Jun 2024 04:18 pm

Tgt Ion:202 Resp: 701

Ion	Ratio	Lower	Upper
202	100		
101	13.8	8.3	12.5#

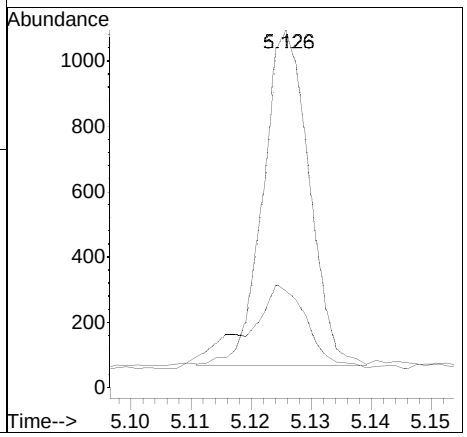


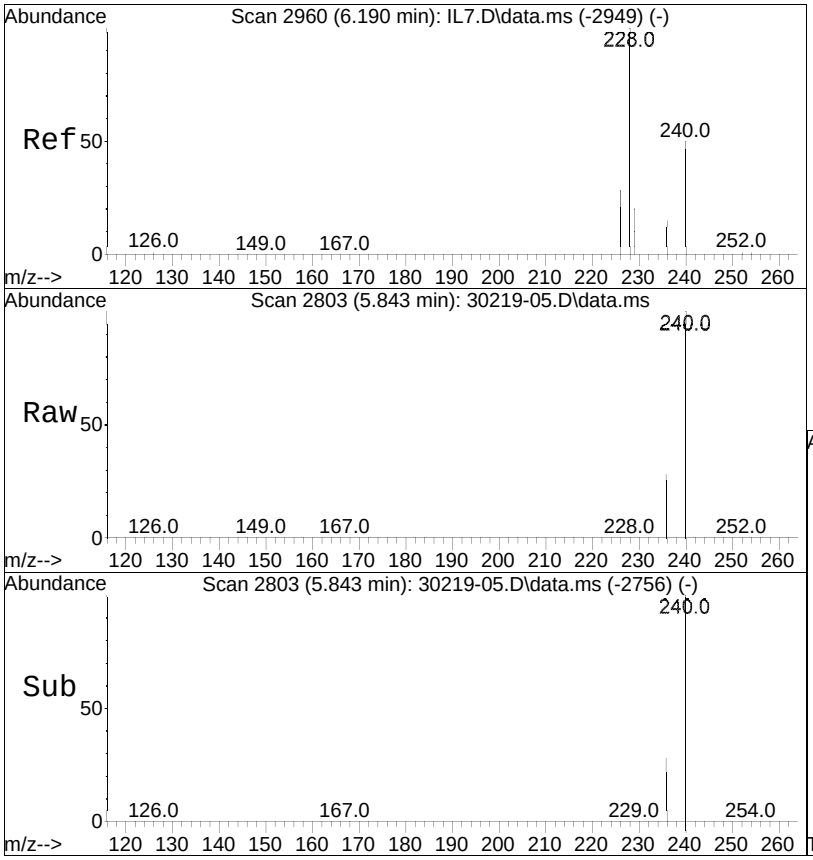


#29
Pyrene
Concen: 9.03 ng/ml M6
RT: 5.126 min Scan# 2392
Delta R.T. -0.000 min
Lab File: 30219-05.D
Acq: 04 Jun 2024 04:18 pm

Tgt Ion:202 Resp: 538

Ion	Ratio	Lower	Upper
202	100		
200	25.1	17.3	25.9

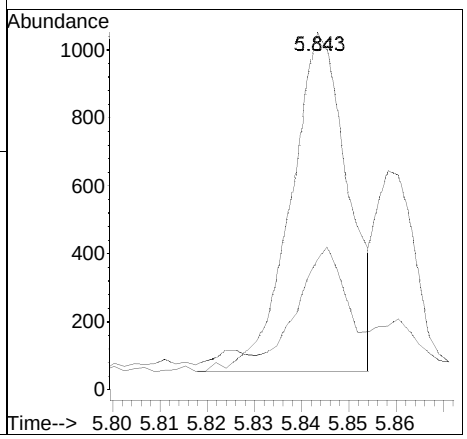


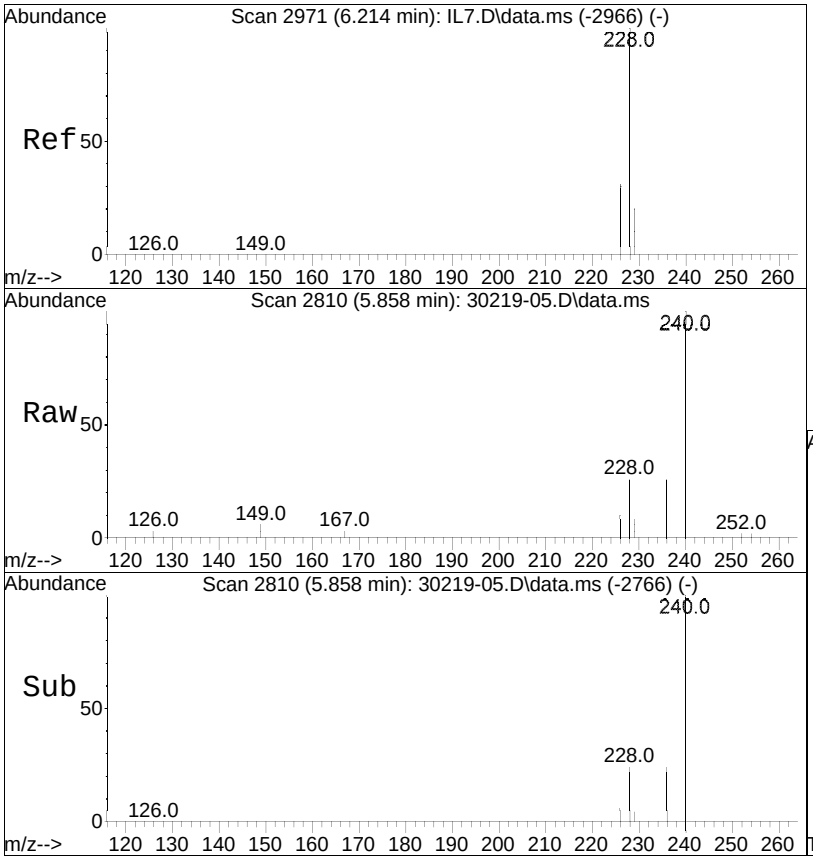


#32
Benzo[a]anthracene
Concen: 5.50 ng/ml
RT: 5.843 min Scan# 2803
Delta R.T. -0.000 min
Lab File: 30219-05.D
Acq: 04 Jun 2024 04:18 pm

Tgt Ion:228 Resp: 836

Ion	Ratio	Lower	Upper
228	100		
229	30.9	15.6	23.4#

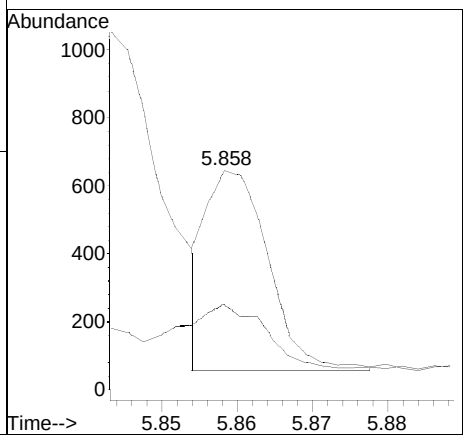


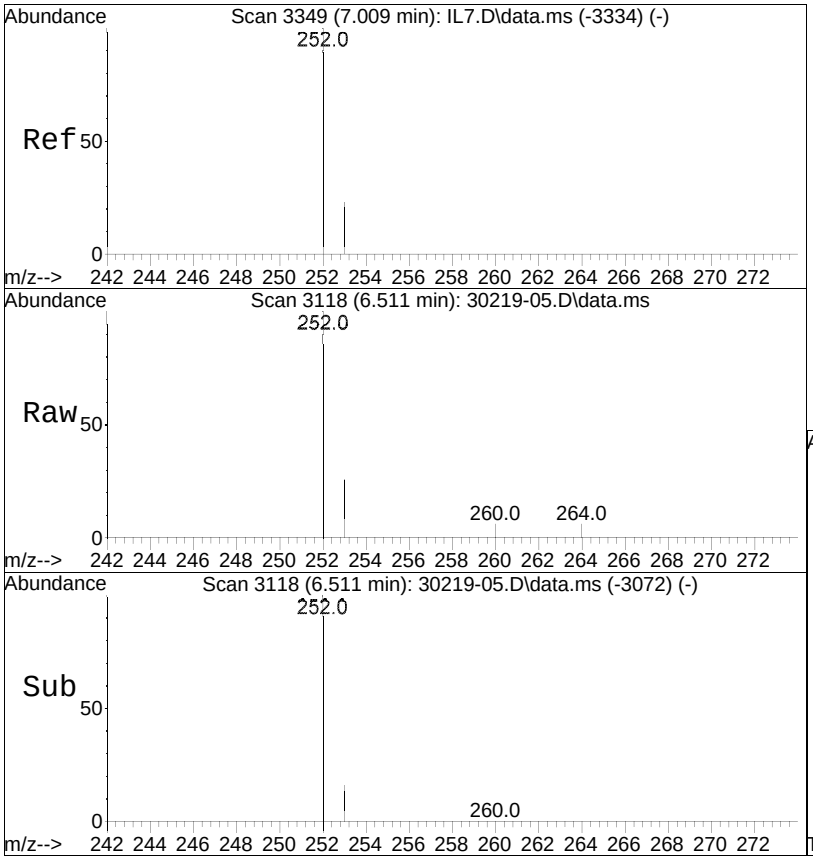


#34
Chrysene
Concen: 6.60 ng/ml M4
RT: 5.858 min Scan# 2810
Delta R.T. -0.007 min
Lab File: 30219-05.D
Acq: 04 Jun 2024 04:18 pm

Tgt Ion:228 Resp: 338

Ion	Ratio	Lower	Upper
228	100		
226	43.2	24.5	36.7#

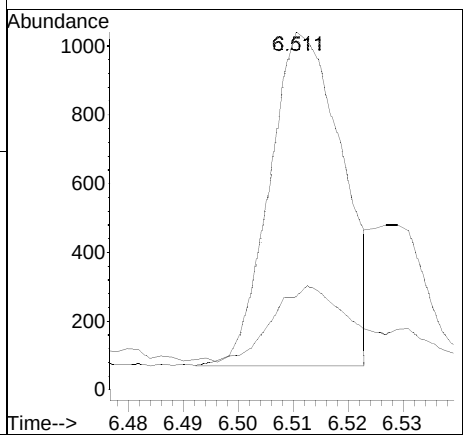


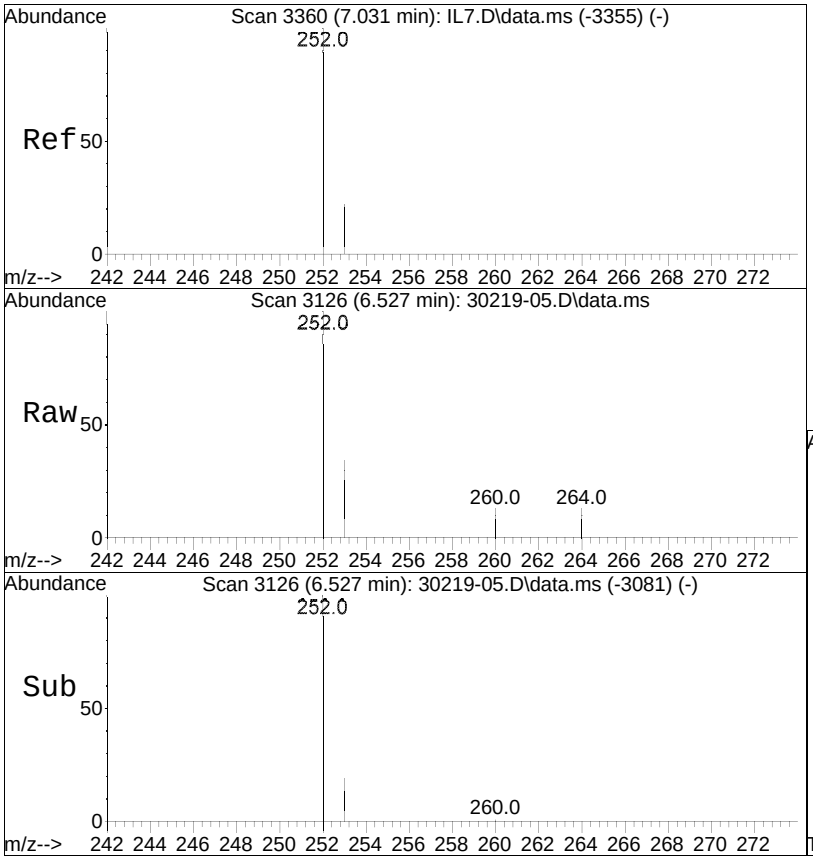


#37
Benzo[b]fluoranthene
Concen: 15.59 ng/ml M6
RT: 6.511 min Scan# 3118
Delta R.T. -0.006 min
Lab File: 30219-05.D
Acq: 04 Jun 2024 04:18 pm

Tgt Ion:252 Resp: 890

Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.3	25.9

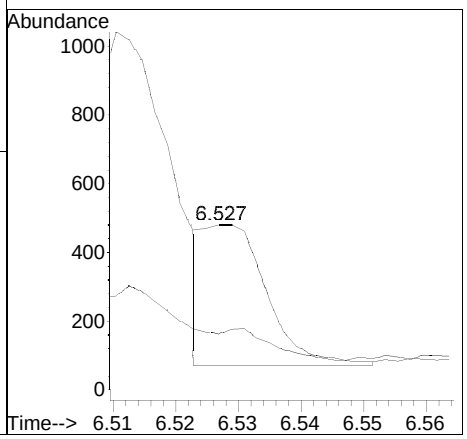


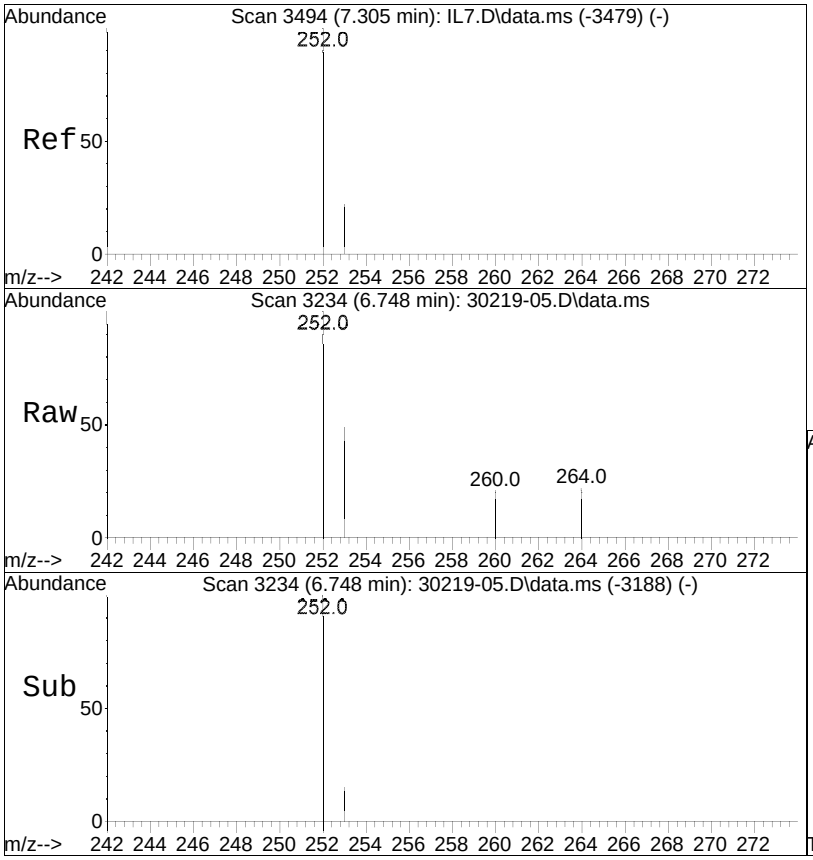


#38
Benzo[k]fluoranthene
Concen: 5.33 ng/ml M3
RT: 6.527 min Scan# 3126
Delta R.T. -0.008 min
Lab File: 30219-05.D
Acq: 04 Jun 2024 04:18 pm

Tgt Ion:252 Resp: 289

Ion	Ratio	Lower	Upper
252	100		
253	18.3	17.4	26.2

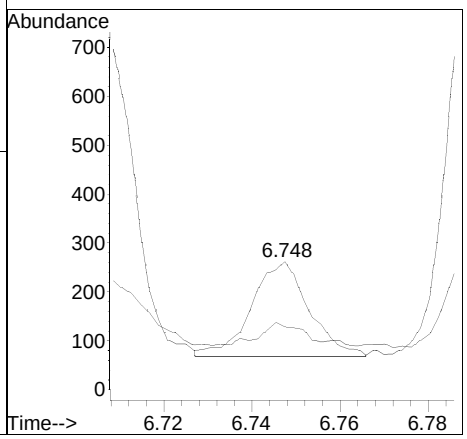


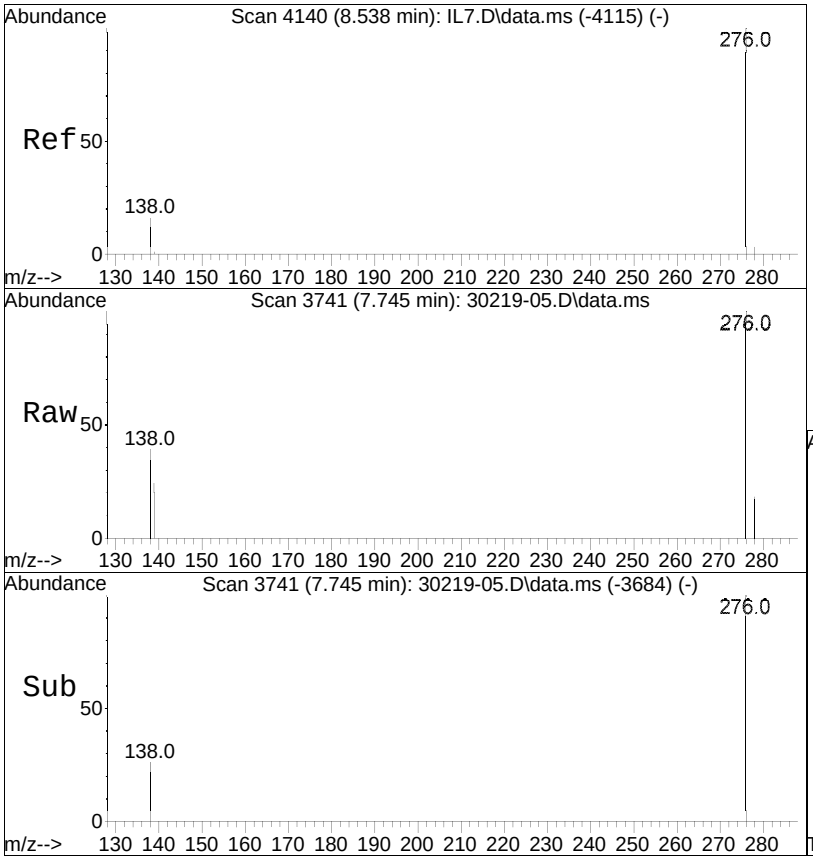


#39
Benzo[a]pyrene
Concen: 3.44 ng/ml M4
RT: 6.748 min Scan# 3234
Delta R.T. -0.006 min
Lab File: 30219-05.D
Acq: 04 Jun 2024 04:18 pm

Tgt Ion:252 Resp: 173

Ion	Ratio	Lower	Upper
252	100		
253	26.0	17.4	26.0

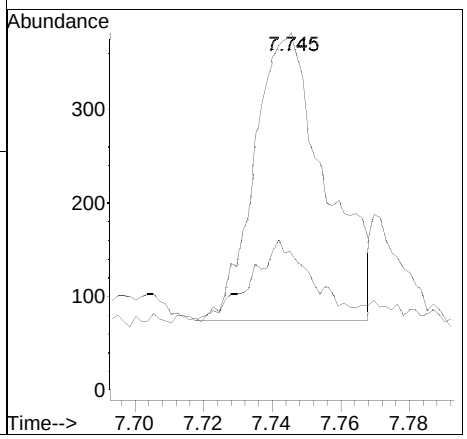


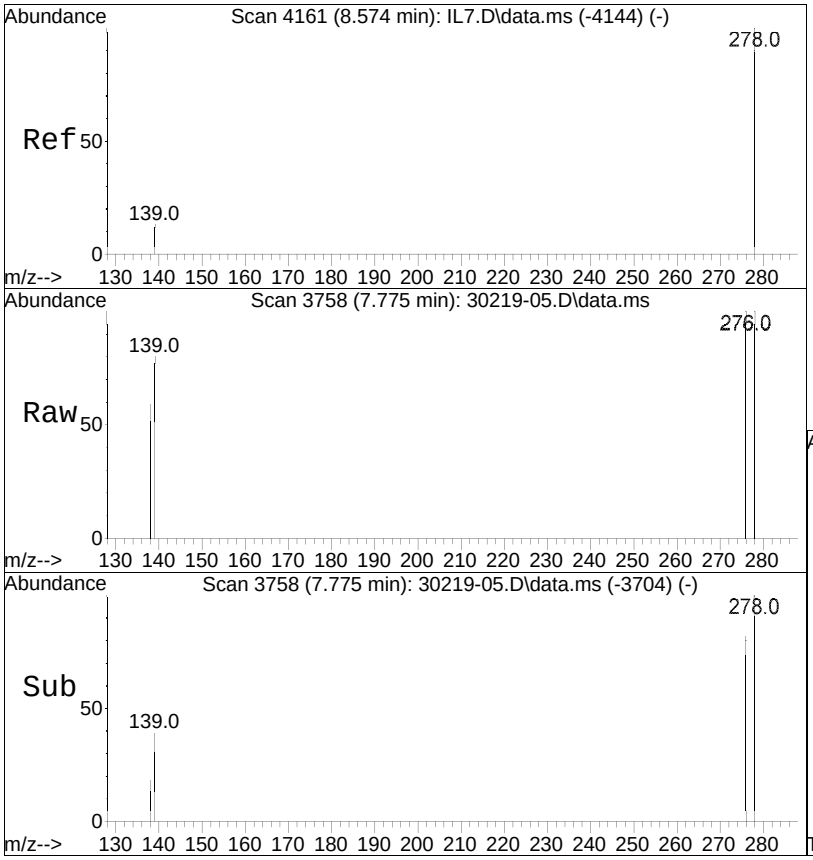


#40
Indeno[1,2,3-cd]pyrene
Concen: 8.06 ng/ml
RT: 7.745 min Scan# 3741
Delta R.T. -0.002 min
Lab File: 30219-05.D
Acq: 04 Jun 2024 04:18 pm

Tgt Ion:276 Resp: 440

Ion	Ratio	Lower	Upper
276	100		
138	25.2	14.8	22.2#

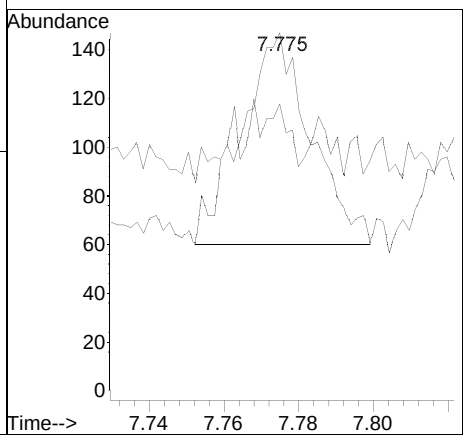


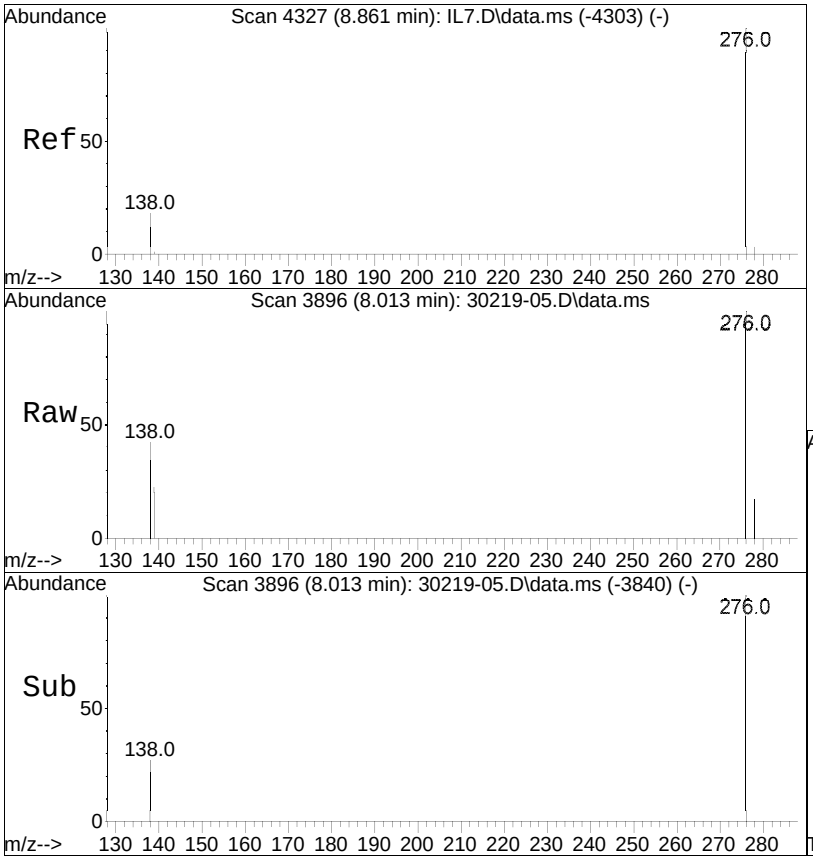


#41
Dibenzo[a,h]anthracene
Concen: 2.22 ng/ml M6
RT: 7.775 min Scan# 3758
Delta R.T. -0.007 min
Lab File: 30219-05.D
Acq: 04 Jun 2024 04:18 pm

Tgt Ion:278 Resp: 113

Ion	Ratio	Lower	Upper
278	100		
139	12.4	12.2	18.4

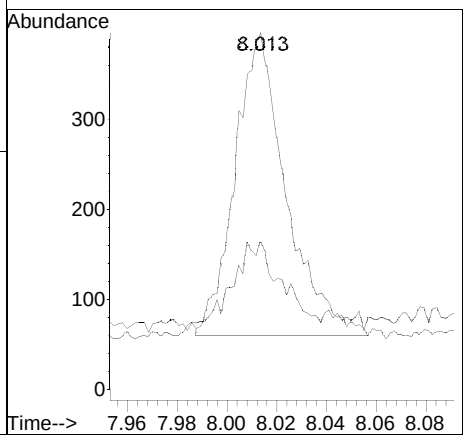




#42
Benzo[g,h,i]perylene
Concen: 8.59 ng/ml M7
RT: 8.013 min Scan# 3896
Delta R.T. -0.004 min
Lab File: 30219-05.D
Acq: 04 Jun 2024 04:18 pm

Tgt Ion:276 Resp: 477

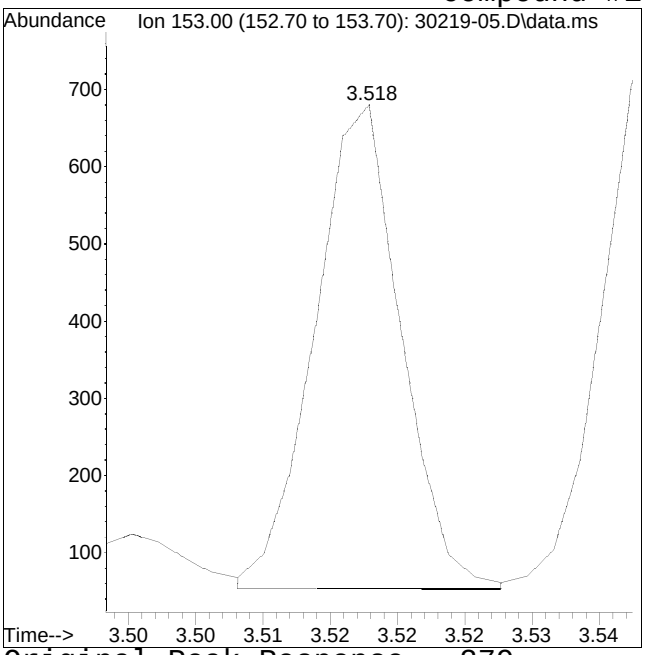
Ion	Ratio	Lower	Upper
276	100		
138	28.9	16.8	25.2#



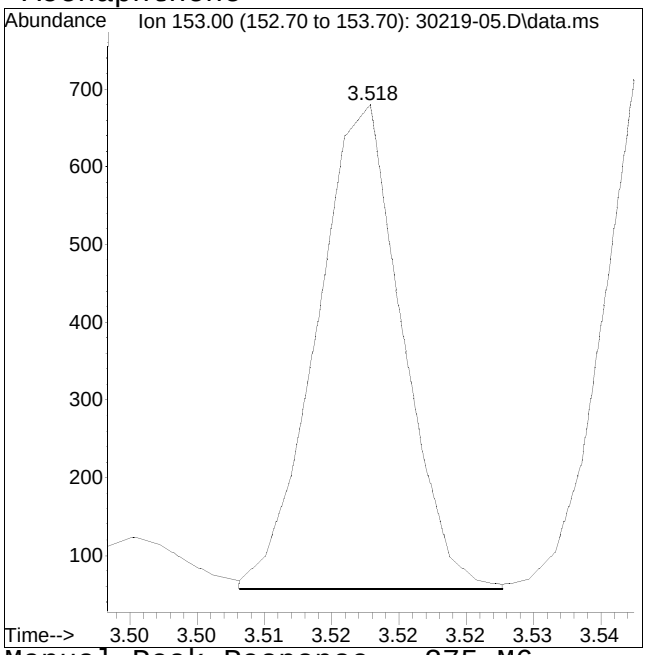
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-05.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 4:18 pm Instrument : SV119
Sample : L2430219-05,32,,ah Quant Date : 6/4/2024 4:33 pm

Compound #18: Acenaphthene



Original Peak Response = 279



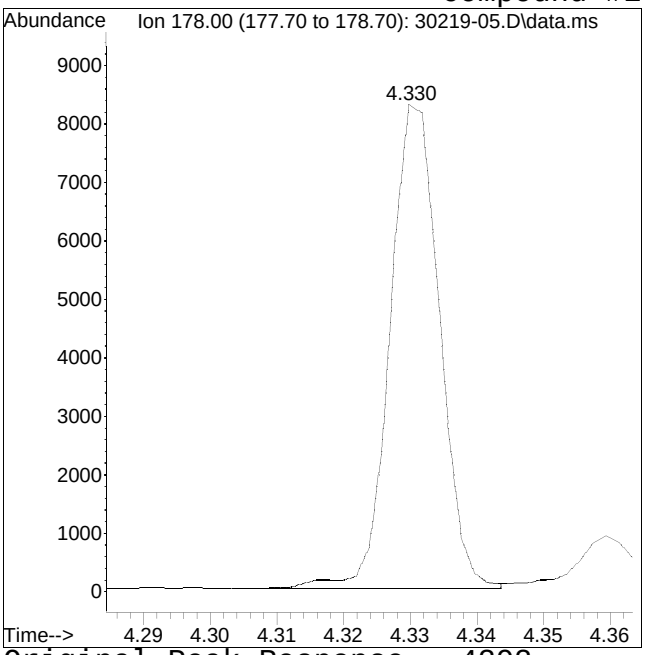
Manual Peak Response = 275 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

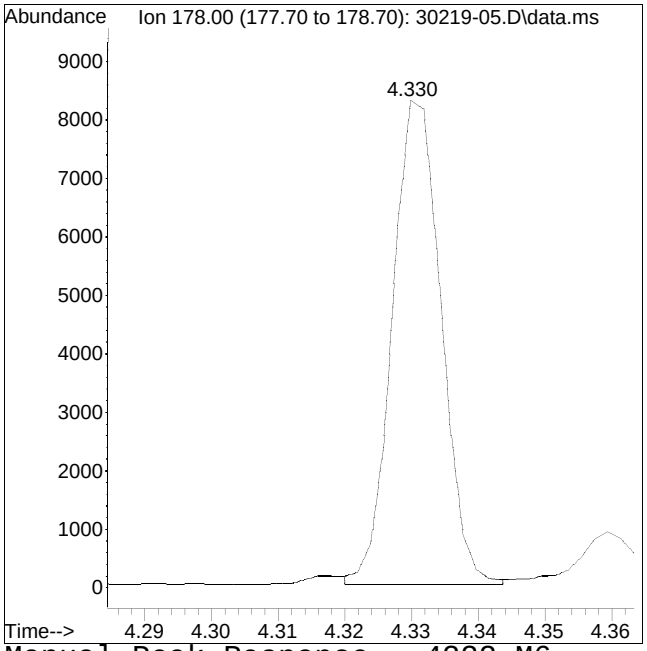
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-05.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 4:18 pm Instrument : SV119
Sample : L2430219-05,32,,ah Quant Date : 6/4/2024 4:33 pm

Compound #26: Phenanthrene



Original Peak Response = 4292



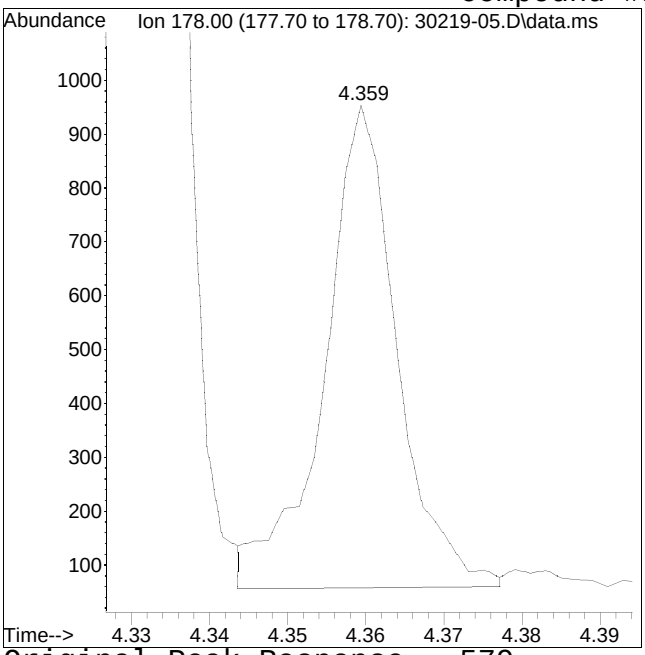
Manual Peak Response = 4222 M6

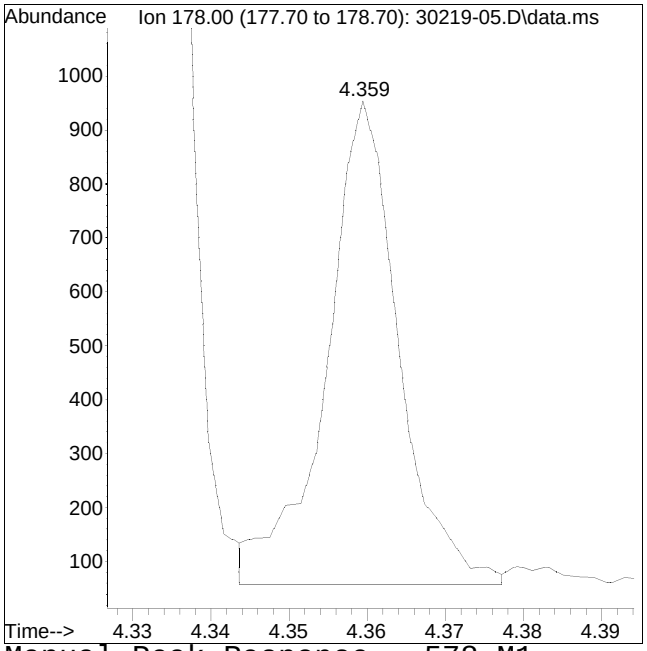
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-05.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 4:18 pm Instrument : SV119
Sample : L2430219-05,32,,ah Quant Date : 6/4/2024 4:33 pm

Compound #27: Anthracene





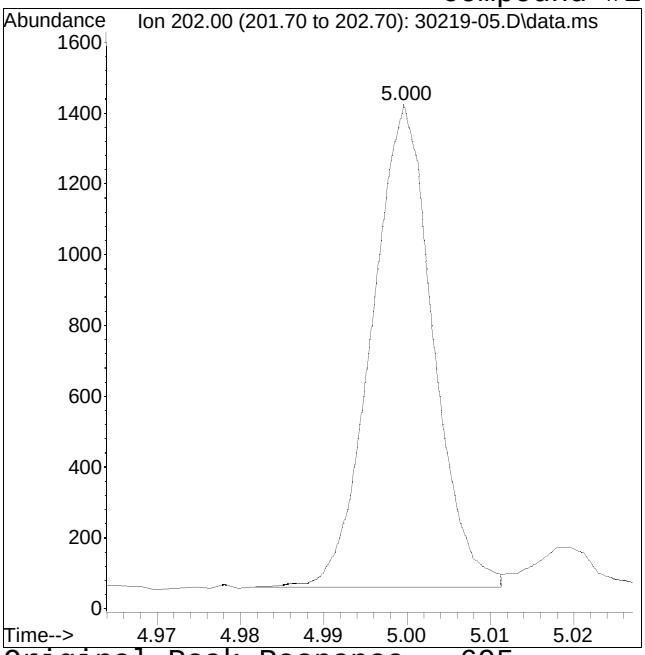
Original Peak Response = 579 Manual Peak Response = 578 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

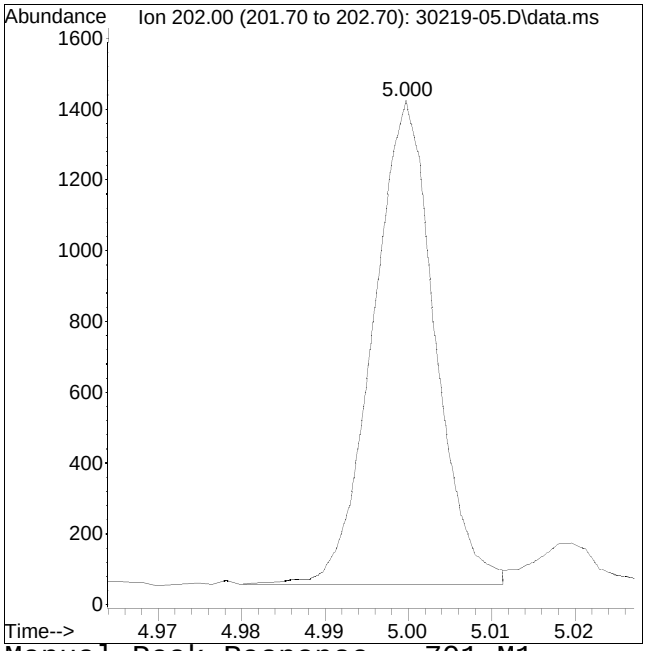
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-05.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 4:18 pm Instrument : SV119
Sample : L2430219-05,32,,ah Quant Date : 6/4/2024 4:33 pm

Compound #28: Fluoranthene



Original Peak Response = 695



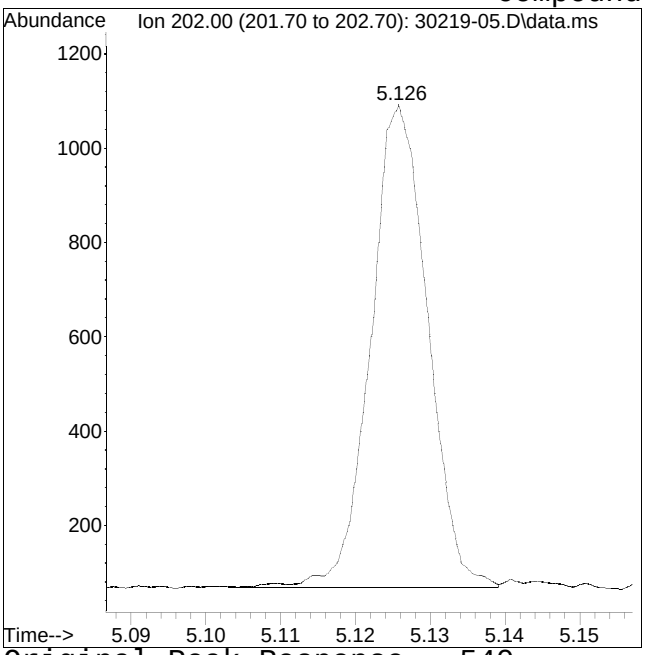
Manual Peak Response = 701 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

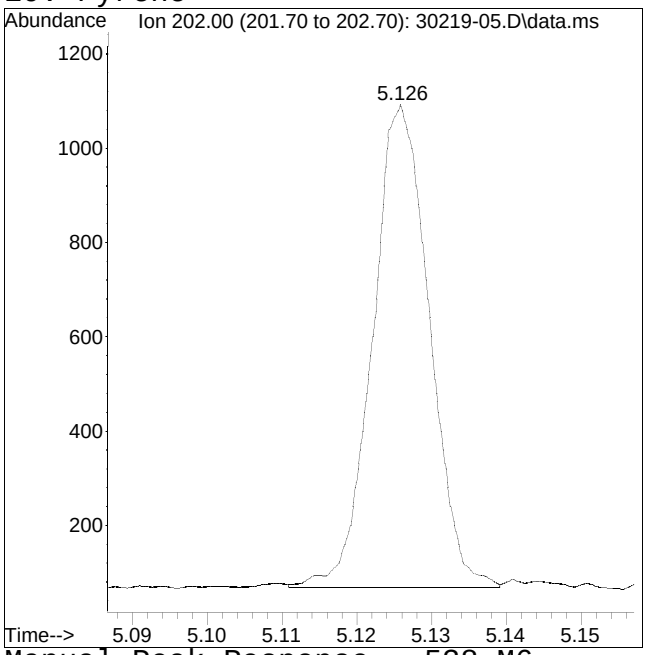
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-05.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 4:18 pm Instrument : SV119
Sample : L2430219-05,32,,ah Quant Date : 6/4/2024 4:33 pm

Compound #29: Pyrene



Original Peak Response = 540



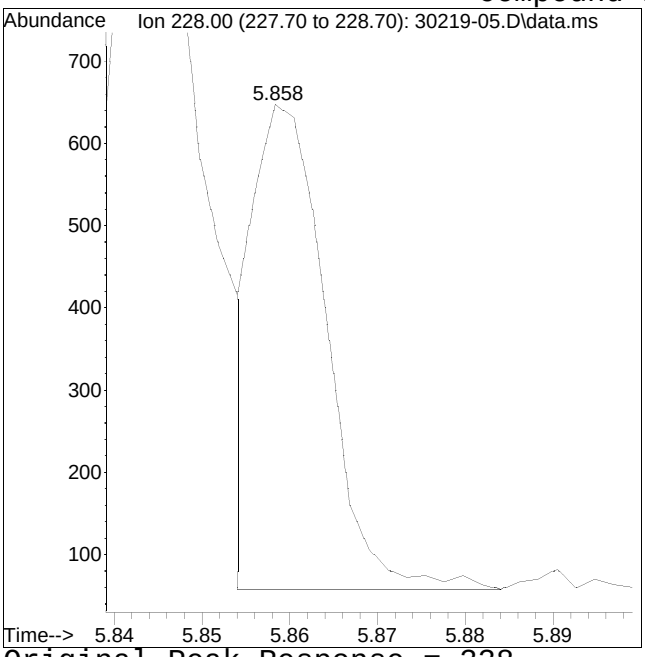
Manual Peak Response = 538 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

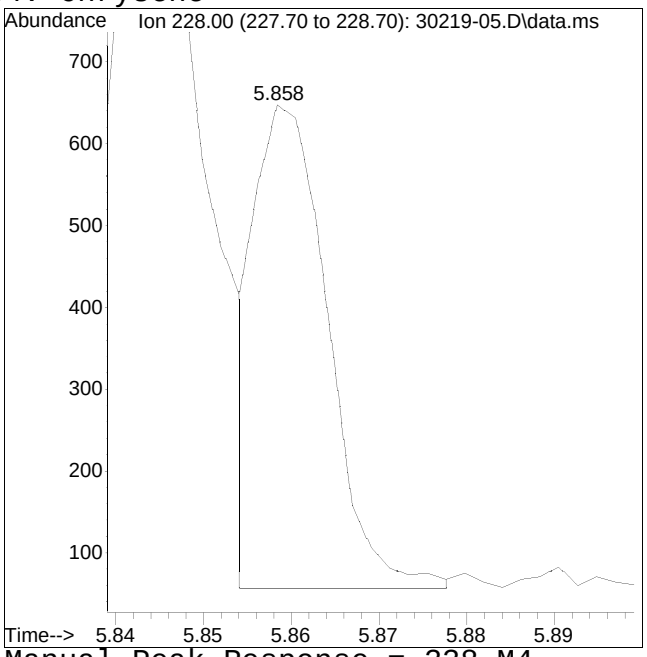
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-05.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 4:18 pm Instrument : SV119
Sample : L2430219-05,32,,ah Quant Date : 6/4/2024 4:33 pm

Compound #34: Chrysene



Original Peak Response = 338



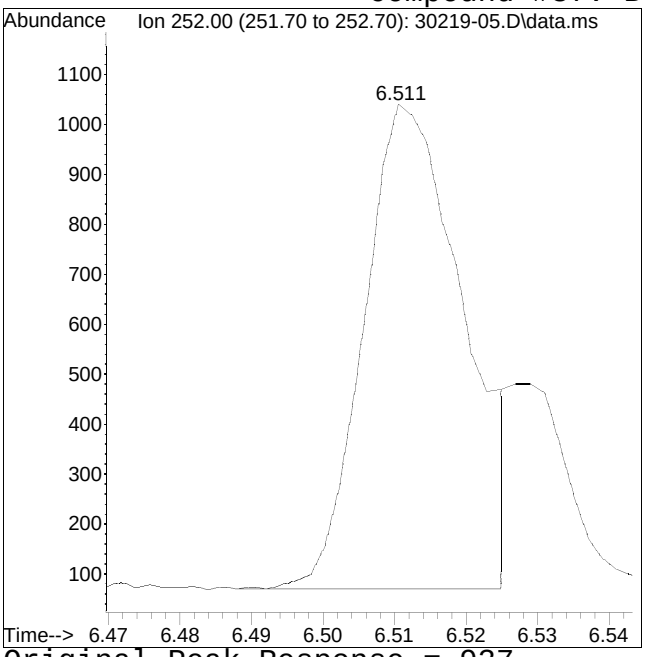
Manual Peak Response = 338 M4

M4 = Poor automated baseline construction.

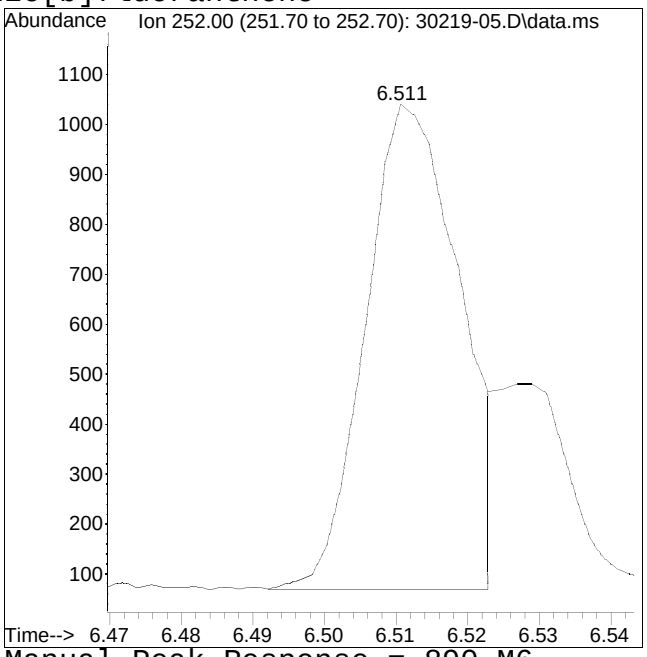
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-05.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 4:18 pm Instrument : SV119
Sample : L2430219-05,32,,ah Quant Date : 6/4/2024 4:33 pm

Compound #37: Benzo[b]fluoranthene



Original Peak Response = 937



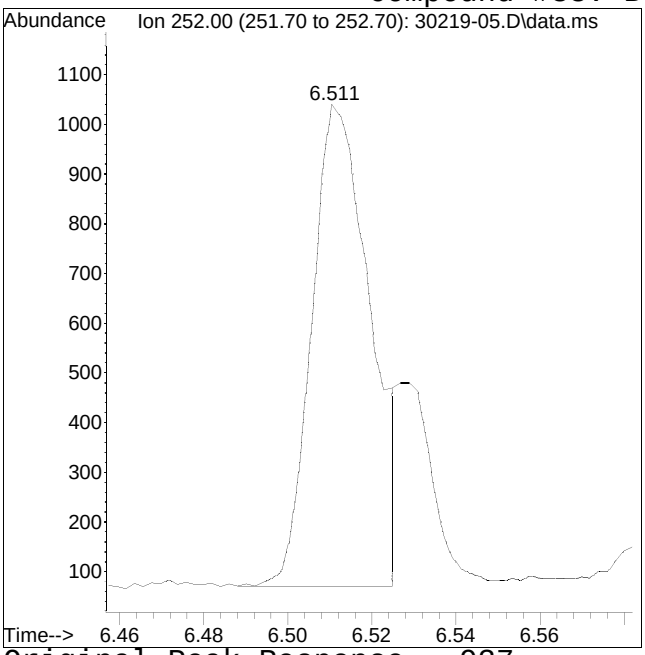
Manual Peak Response = 890 M6

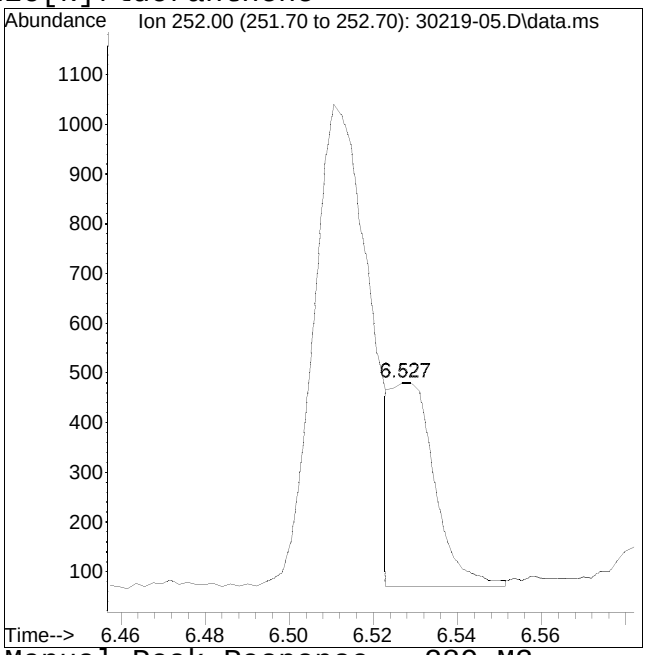
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-05.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 4:18 pm Instrument : SV119
Sample : L2430219-05,32,,ah Quant Date : 6/4/2024 4:33 pm

Compound #38: Benzo[k]fluoranthene





Original Peak Response = 937 Manual Peak Response = 289 M3

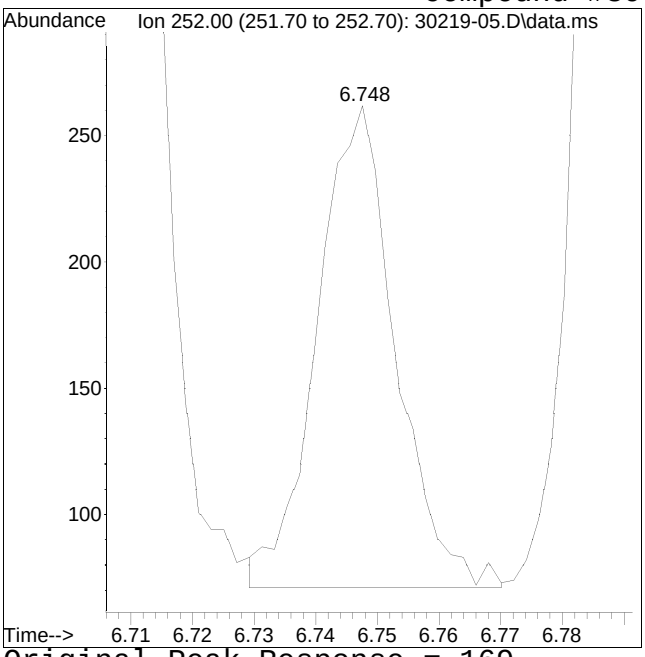
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

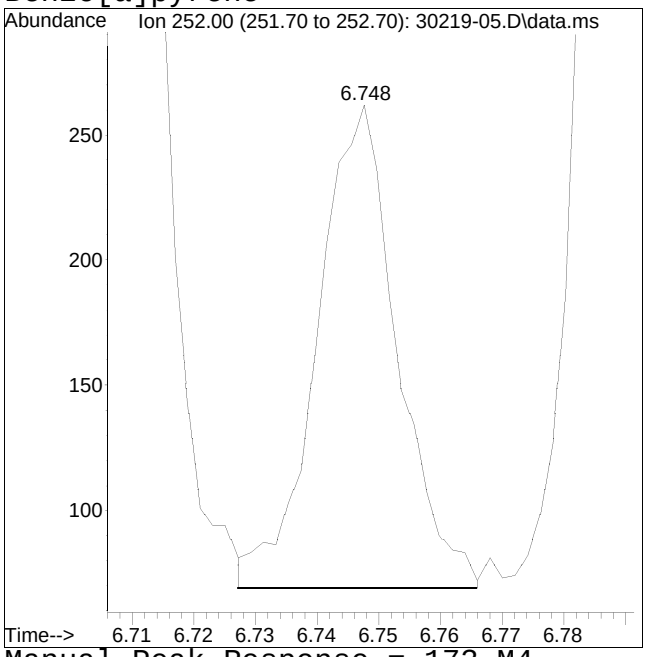
Data Path : I:\8270SIM\sv119\240604LVIQ
Data File : 30219-05.D
Date Inj'd : 6/4/2024 4:18 pm
Sample : L2430219-05,32,,ah

Method : SIM-LVI_231207n_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 6/4/2024 4:33 pm

Compound #39: Benzo[a]pyrene



Original Peak Response = 169



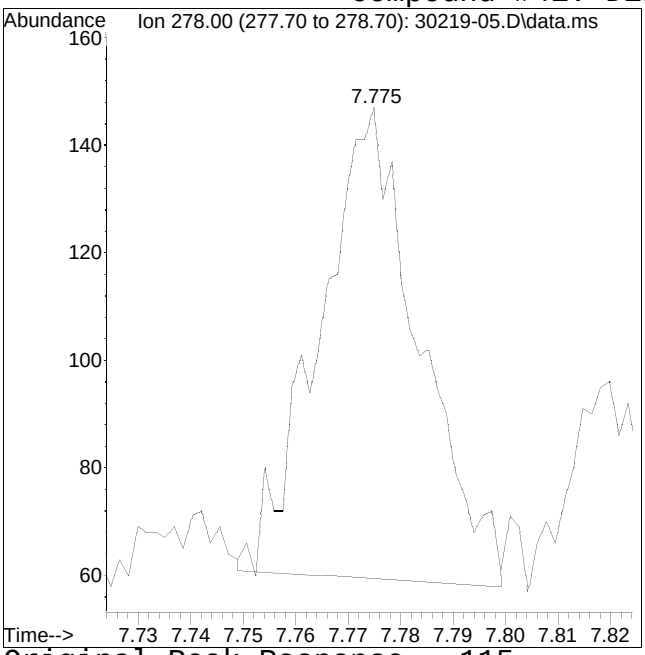
Manual Peak Response = 173 M4

M4 = Poor automated baseline construction.

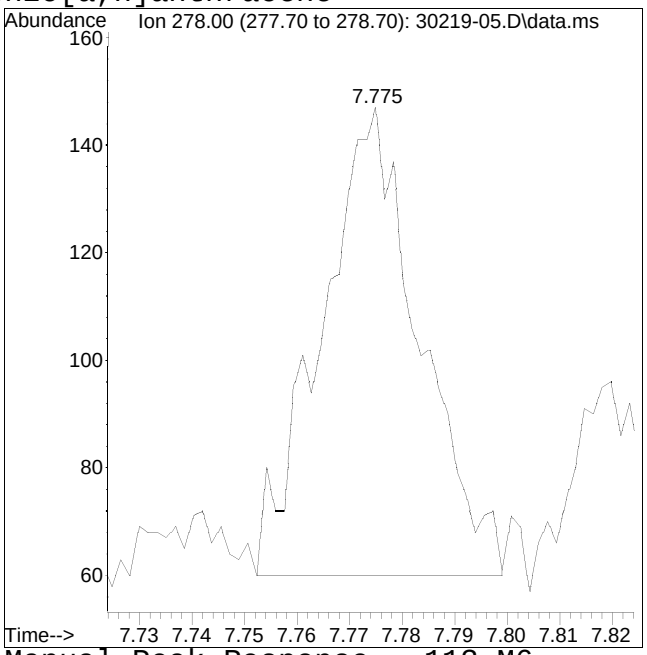
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-05.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 4:18 pm Instrument : SV119
Sample : L2430219-05,32,,ah Quant Date : 6/4/2024 4:33 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 115



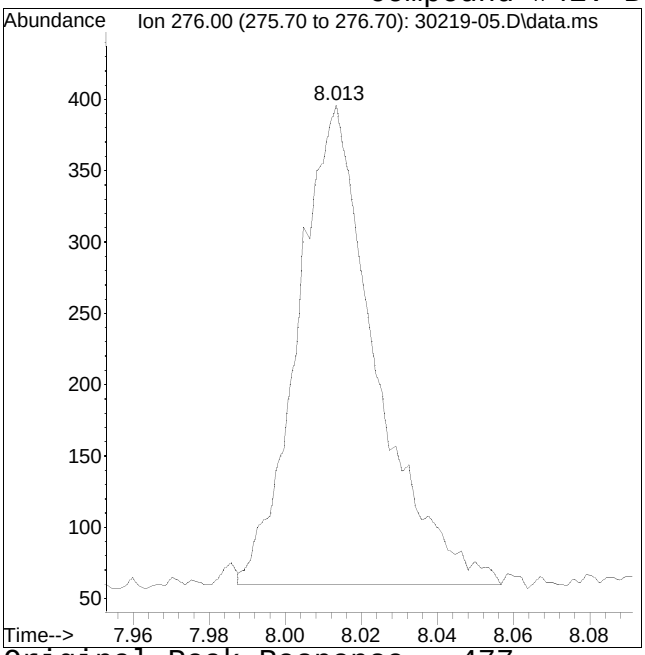
Manual Peak Response = 113 M6

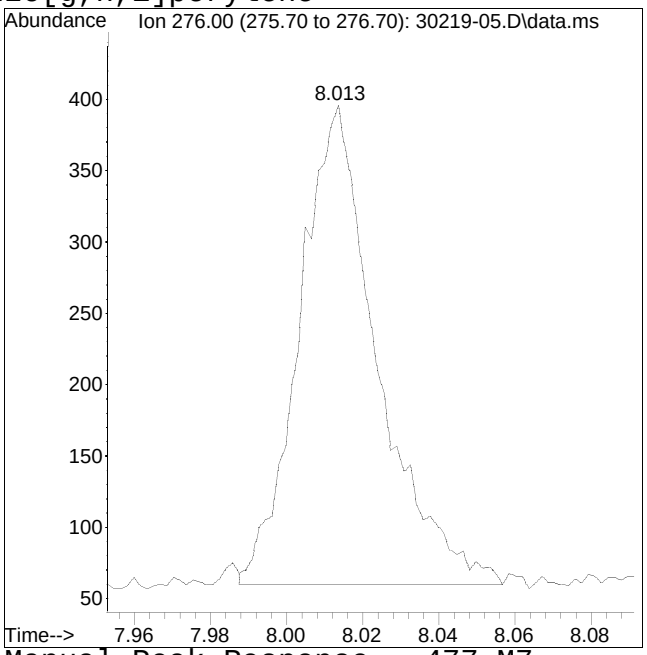
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-05.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 4:18 pm Instrument : SV119
Sample : L2430219-05,32,,ah Quant Date : 6/4/2024 4:33 pm

Compound #42: Benzo[g,h,i]perylene





Original Peak Response = 477 Manual Peak Response = 477 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 30219-06.D
Acq On : 04 Jun 2024 04:35 pm
Operator : sv119:jjw
Sample : L2430219-06,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jun 06 11:25:01 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240604LVI\ccv0604.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.907	152	46036	4000.000	ng/ml	0.00
Standard Area 1 = 56492			Recovery = 81.49%			
8) Naphthalene-d8	2.550	136	153934	4000.000	ng/ml	0.00
Standard Area 1 = 186100			Recovery = 82.72%			
17) Acenaphthene-d10	3.500	164	81611	4000.000	ng/ml	0.00
Standard Area 1 = 98337			Recovery = 82.99%			
22) Phenanthrene-d10	4.318	188	175602	4000.000	ng/ml	0.00
Standard Area 1 = 215749			Recovery = 81.39%			
31) Chrysene-d12	5.845	240	158616	4000.000	ng/ml	0.00
Standard Area 1 = 188074			Recovery = 84.34%			
36) Perylene-d12	6.795	264	168571	4000.000	ng/ml	0.00
Standard Area 1 = 198758			Recovery = 84.81%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.341	112	44077	3500.505	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 70.01%			
3) Phenol-d6	1.742	99	44709	2962.140	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 59.24%			
7) Nitrobenzene-d5	2.183	82	27827	2430.511	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 97.22%			
13) 2-Fluorobiphenyl	3.137	172	65877	1916.176	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 76.65%			
21) 2,4,6-Tribromophenol	3.937	330	28970	6438.715	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 128.77%#			
30) 4-Terphenyl-d14	5.232	244	73041	1696.729	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 67.87%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	2.560	128	349M4	9.495	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.	d	
14) 2-Chloronaphthalene	3.200	162	62	2.142	ng/ml	89
16) Acenaphthylene	3.422	152	359M6	8.345	ng/ml	
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	0.000		0	N.D.	d	
25) Pentachlorophenol	0.000		0	N.D.	d	

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 30219-06.D
Acq On : 04 Jun 2024 04:35 pm
Operator : sv119:jjw
Sample : L2430219-06,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jun 06 11:25:01 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240604LVI\ccv0604.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.330	178	190M1	4.260	ng/ml	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	5.001	202	184M4	3.130	ng/ml	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

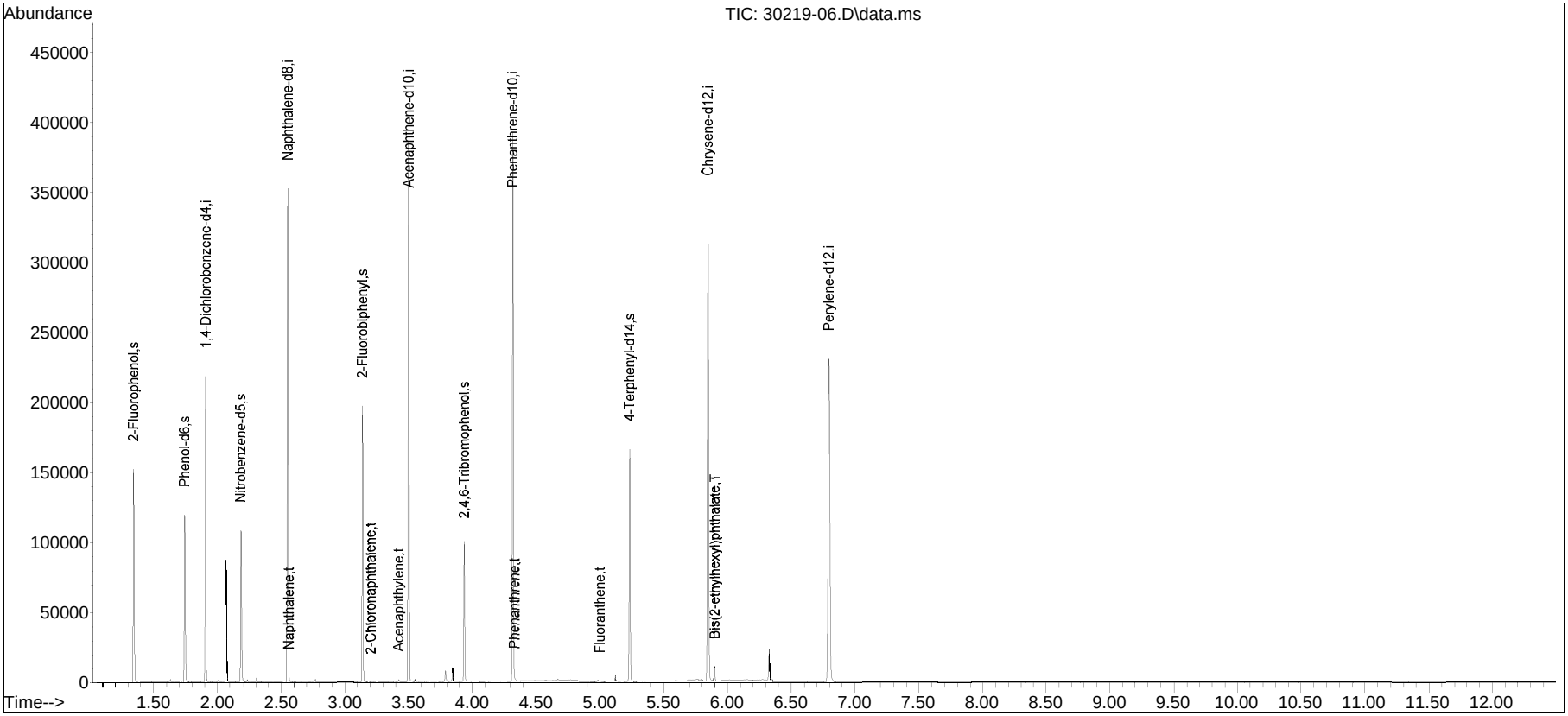
(#) = qualifier out of range (m) = manual integration (+) = signals summed

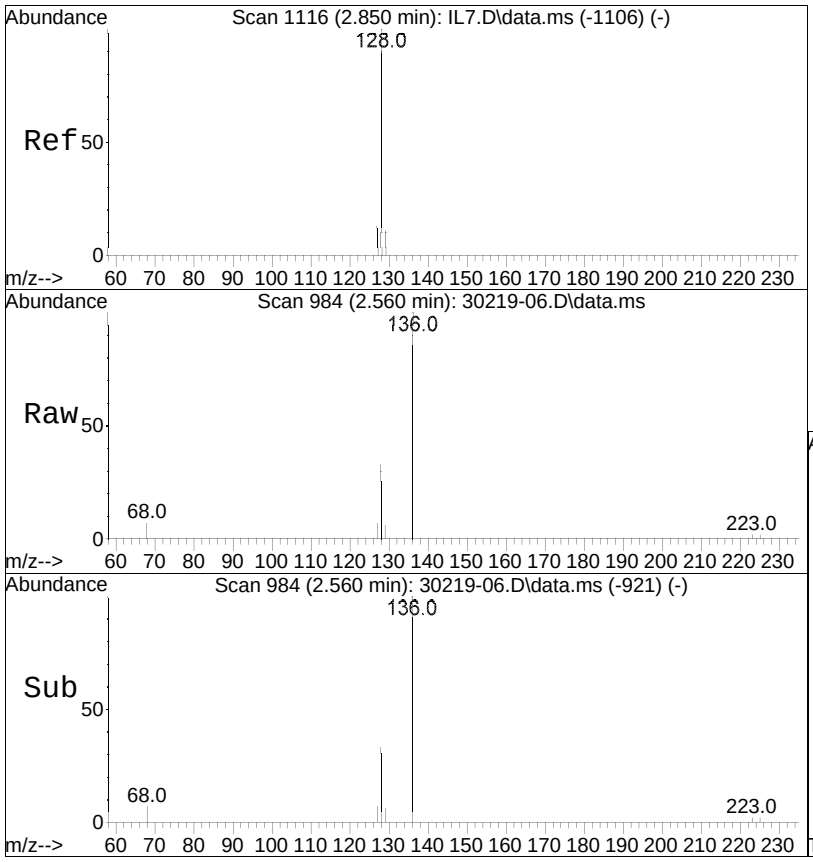
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 30219-06.D
Acq On : 04 Jun 2024 04:35 pm
Operator : sv119:jjw
Sample : L2430219-06,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jun 06 11:25:01 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0604.D•

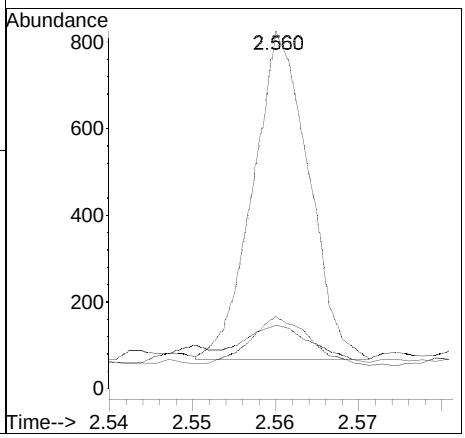


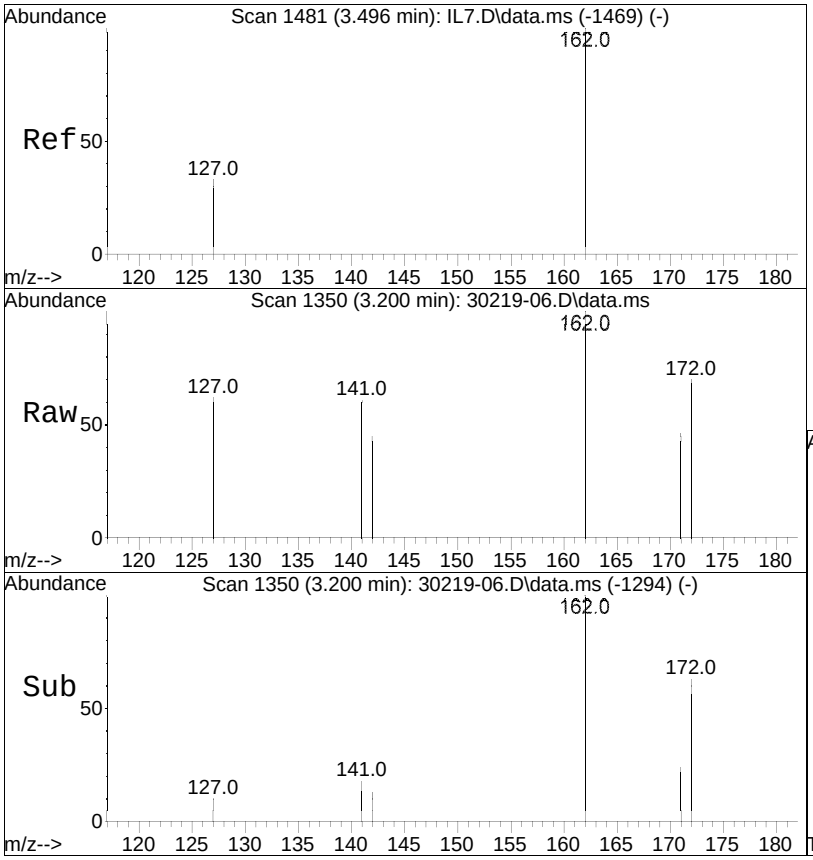


#9
Naphthalene
Concen: 9.49 ng/ml M4
RT: 2.560 min Scan# 984
Delta R.T. 0.001 min
Lab File: 30219-06.D
Acq: 04 Jun 2024 04:35 pm

Tgt Ion:128 Resp: 349

Ion	Ratio	Lower	Upper
128	100		
129	13.2	8.8	13.2
127	16.0	10.6	15.8#

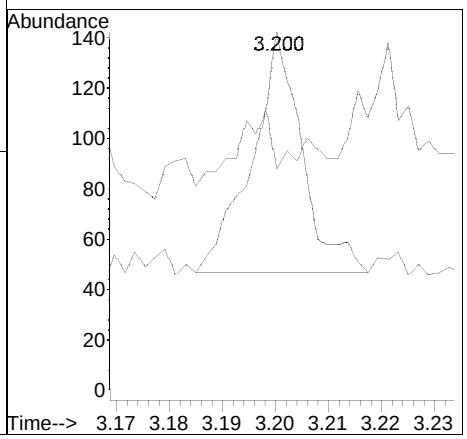


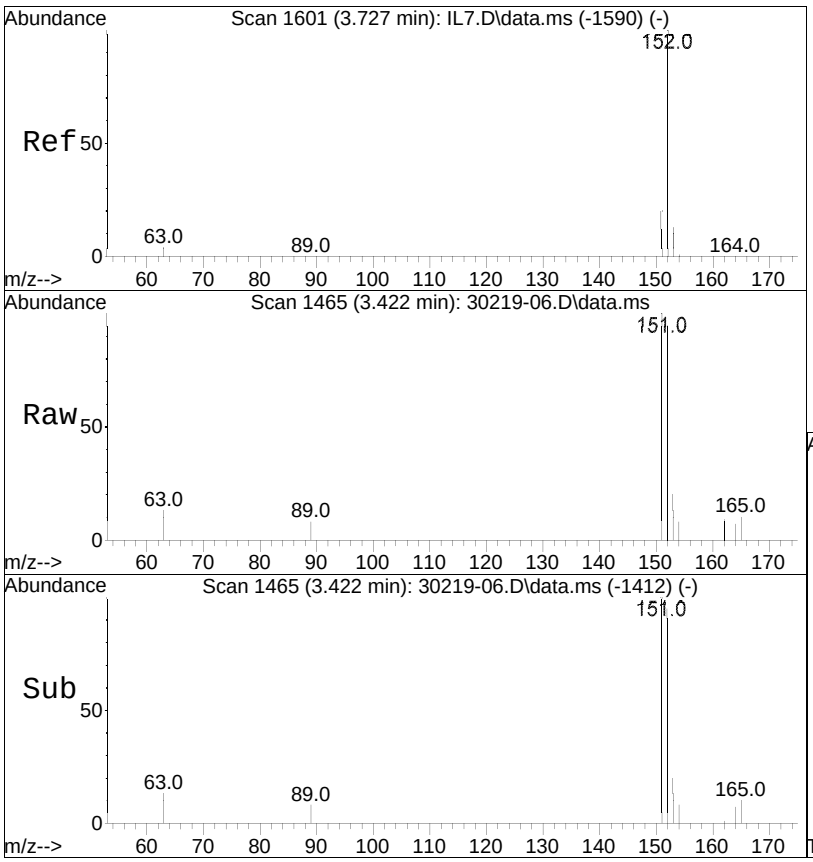


#14
2-Chloronaphthalene
Concen: 2.14 ng/ml
RT: 3.200 min Scan# 1350
Delta R.T. 0.007 min
Lab File: 30219-06.D
Acq: 04 Jun 2024 04:35 pm

Tgt Ion:162 Resp: 62

Ion	Ratio	Lower	Upper
162	100		
127	30.6	29.7	44.5

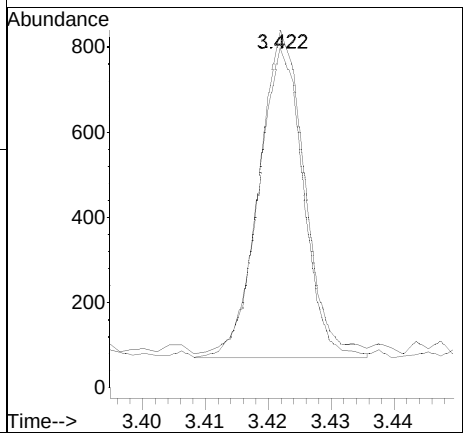


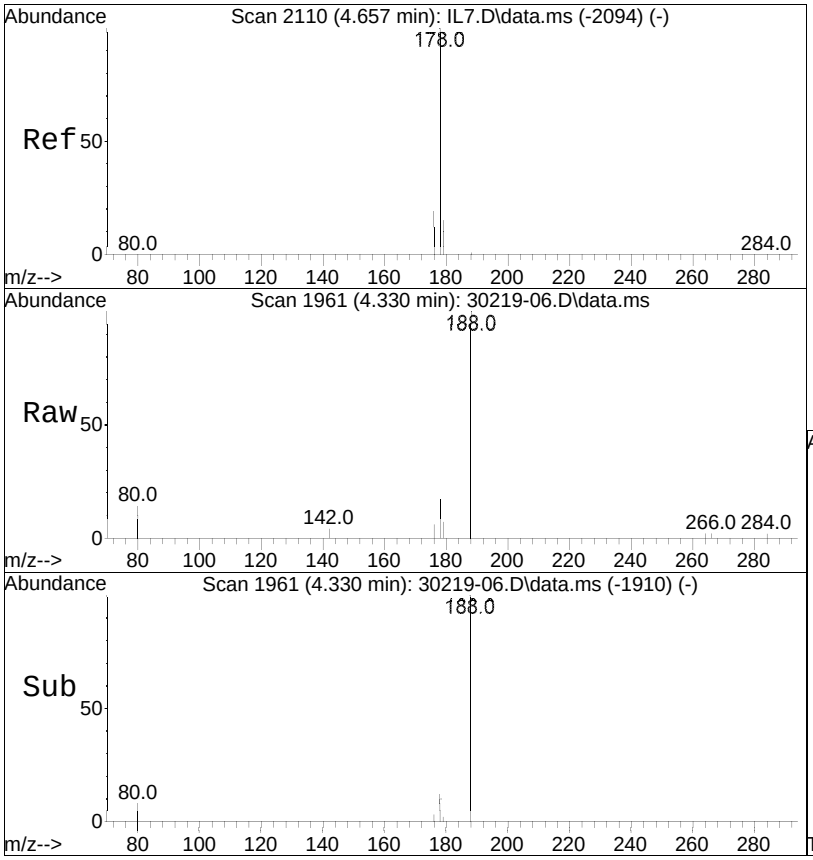


#16
Acenaphthylene
Concen: 8.34 ng/ml M6
RT: 3.422 min Scan# 1465
Delta R.T. 0.004 min
Lab File: 30219-06.D
Acq: 04 Jun 2024 04:35 pm

Tgt Ion:152 Resp: 359

Ion	Ratio	Lower	Upper
152	100		
151	104.5	16.0	24.0#

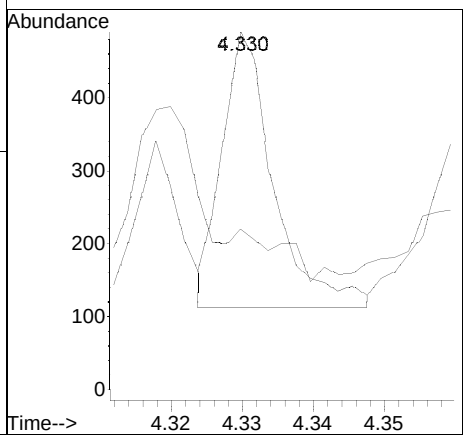


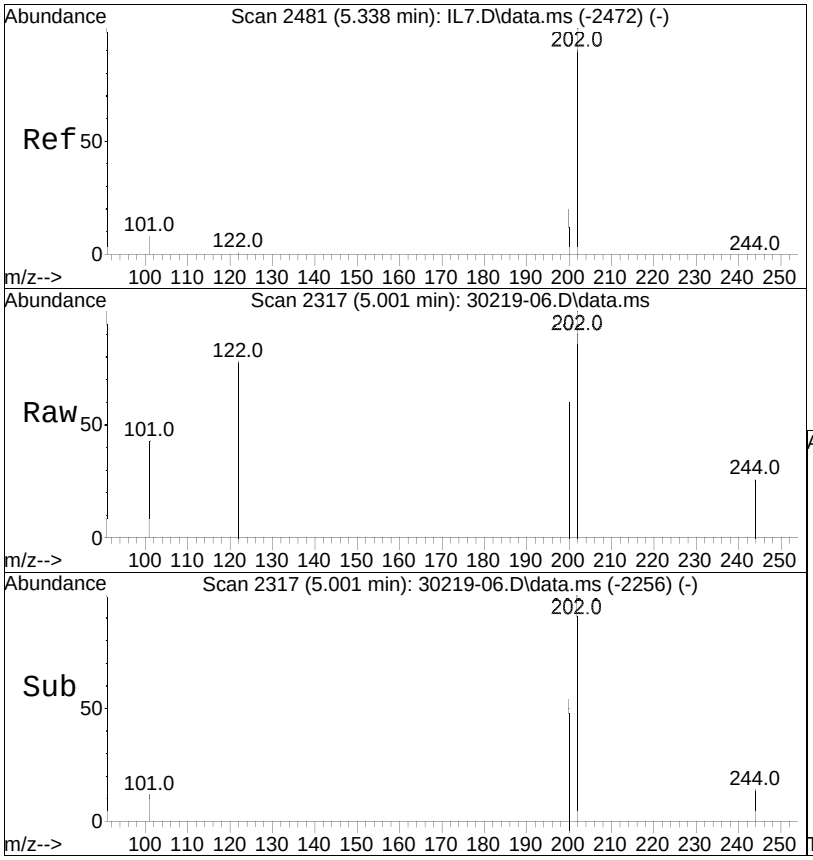


#26
Phenanthrene
Concen: 4.26 ng/ml M1
RT: 4.330 min Scan# 1961
Delta R.T. -0.000 min
Lab File: 30219-06.D
Acq: 04 Jun 2024 04:35 pm

Tgt Ion:178 Resp: 190

Ion	Ratio	Lower	Upper
178	100		
179	18.4	12.3	18.5

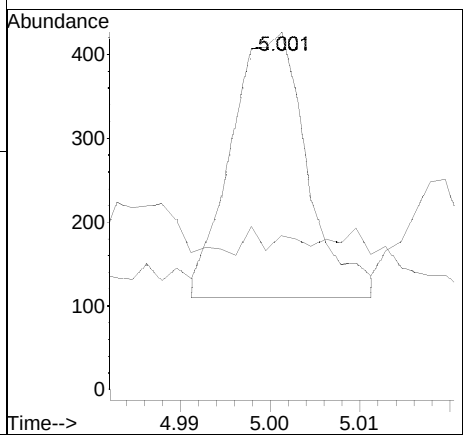




#28
Fluoranthene
Concen: 3.13 ng/ml M4
RT: 5.001 min Scan# 2317
Delta R.T. 0.001 min
Lab File: 30219-06.D
Acq: 04 Jun 2024 04:35 pm

Tgt Ion:202 Resp: 184

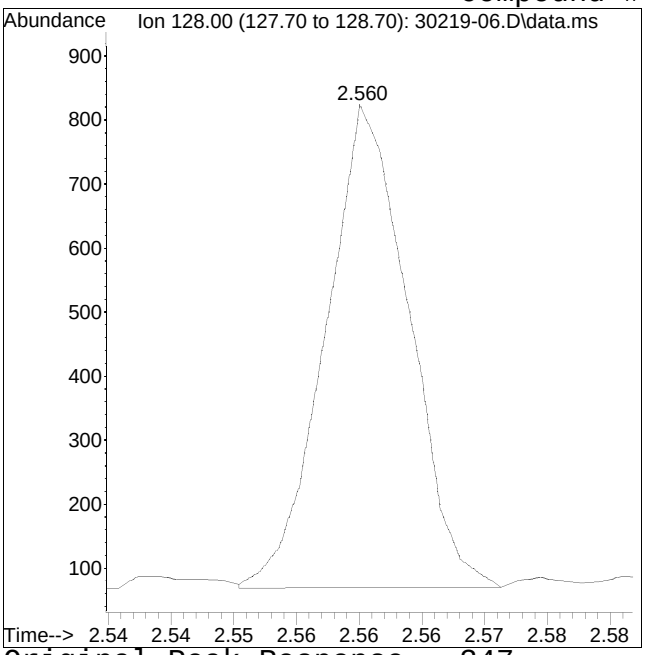
Ion	Ratio	Lower	Upper
202	100		
101	17.4	8.3	12.5#



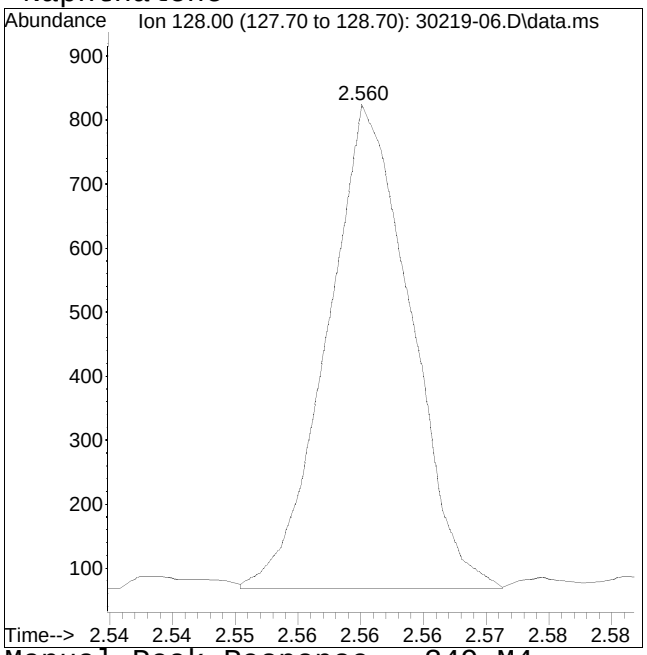
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-06.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 4:35 pm Instrument : SV119
Sample : L2430219-06,32,,ah Quant Date : 6/4/2024 4:49 pm

Compound #9: Naphthalene



Original Peak Response = 347



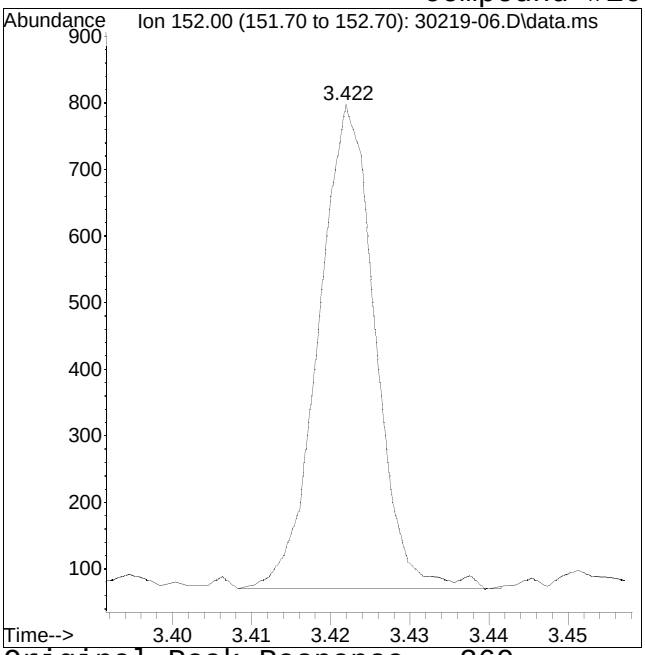
Manual Peak Response = 349 M4

M4 = Poor automated baseline construction.

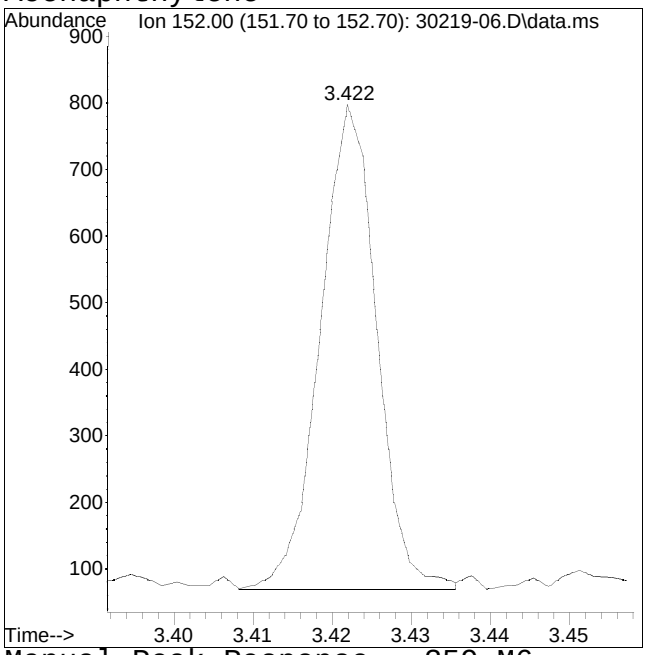
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-06.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 4:35 pm Instrument : SV119
Sample : L2430219-06,32,,ah Quant Date : 6/4/2024 4:49 pm

Compound #16: Acenaphthylene



Original Peak Response = 360



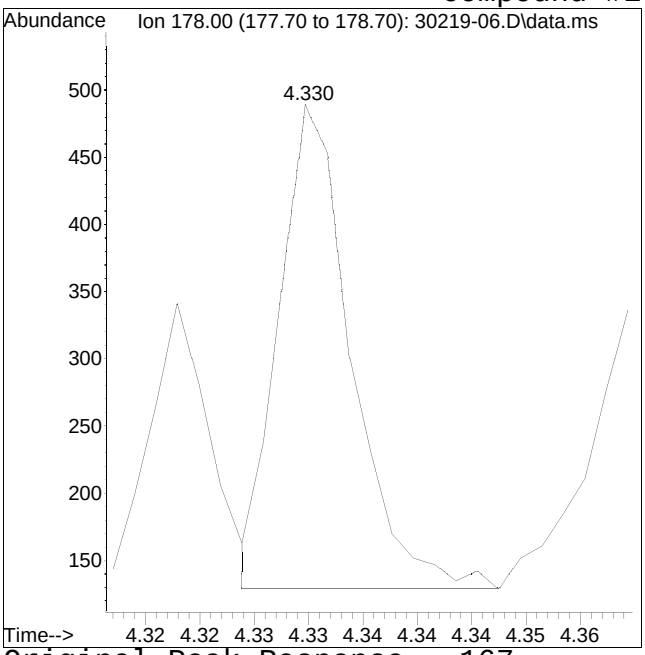
Manual Peak Response = 359 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

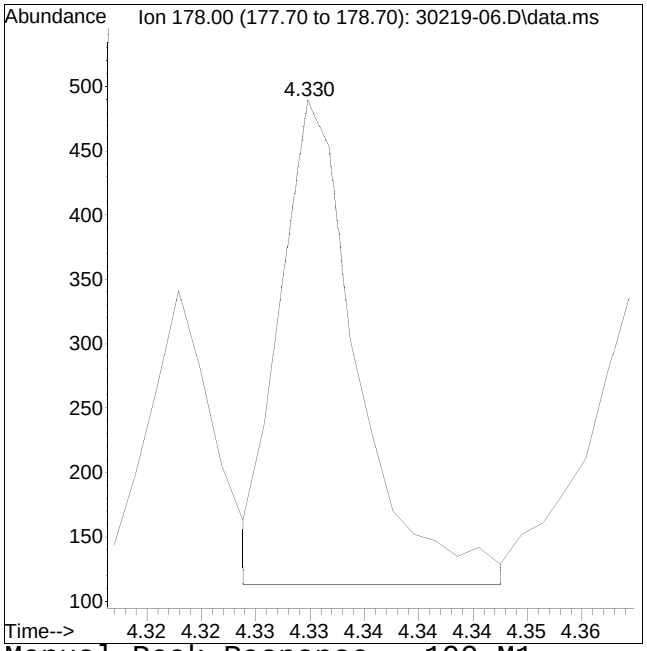
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-06.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 4:35 pm Instrument : SV119
Sample : L2430219-06,32,,ah Quant Date : 6/4/2024 4:49 pm

Compound #26: Phenanthrene



Original Peak Response = 167



Manual Peak Response = 190 M1

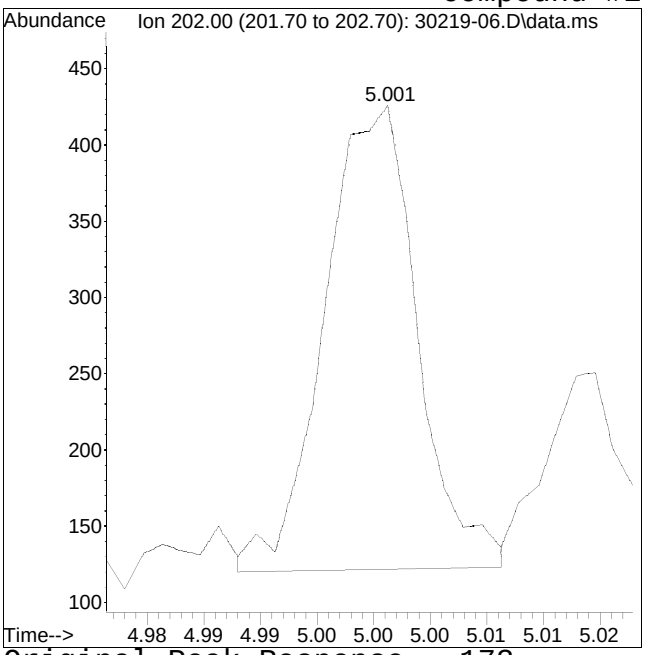
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

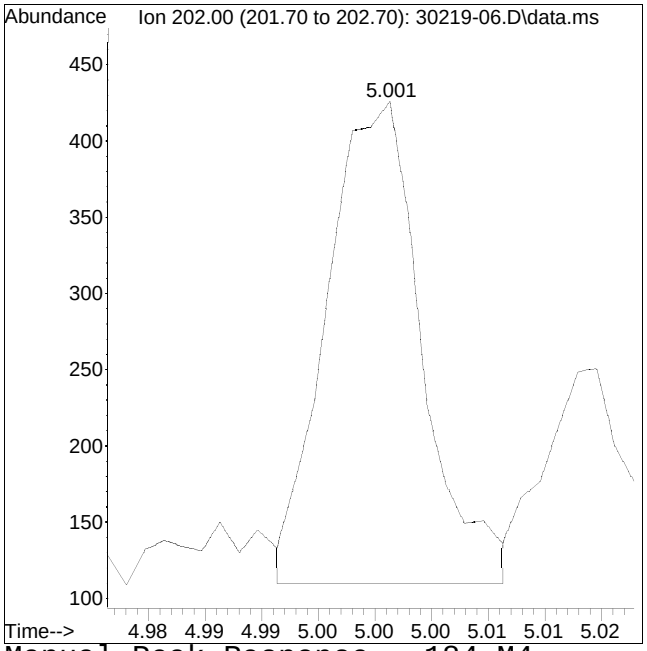
Data Path : I:\8270SIM\sv119\240604LVIQ
Data File : 30219-06.D
Date Inj'd : 6/4/2024 4:35 pm
Sample : L2430219-06,32,,ah

Method : SIM-LVI_231207n_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 6/4/2024 4:49 pm

Compound #28: Fluoranthene



Original Peak Response = 173



Manual Peak Response = 184 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 30219-07.D
Acq On : 04 Jun 2024 04:52 pm
Operator : sv119:jjw
Sample : L2430219-07,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Jun 06 11:28:17 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240604LVI\ccv0604.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.907	152	47661	4000.000	ng/ml	0.00
Standard Area 1 = 56492			Recovery = 84.37%			
8) Naphthalene-d8	2.551	136	159607	4000.000	ng/ml	0.00
Standard Area 1 = 186100			Recovery = 85.76%			
17) Acenaphthene-d10	3.499	164	84644	4000.000	ng/ml	0.00
Standard Area 1 = 98337			Recovery = 86.08%			
22) Phenanthrene-d10	4.318	188	178466	4000.000	ng/ml	0.00
Standard Area 1 = 215749			Recovery = 82.72%			
31) Chrysene-d12	5.840	240	151028	4000.000	ng/ml	-0.01
Standard Area 1 = 188074			Recovery = 80.30%			
36) Perylene-d12	6.787	264	159292	4000.000	ng/ml	-0.01
Standard Area 1 = 198758			Recovery = 80.14%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.342	112	45150	3463.465	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 69.27%			
3) Phenol-d6	1.744	99	45758	2928.276	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 58.57%			
7) Nitrobenzene-d5	2.183	82	28329	2389.995	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 95.60%			
13) 2-Fluorobiphenyl	3.138	172	66330	1860.776	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 74.43%			
21) 2,4,6-Tribromophenol	3.936	330	27898	5978.281	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 119.57%#			
30) 4-Terphenyl-d14	5.231	244	68101	1556.587	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 62.26%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	2.562	128	264M4	6.927	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.	d	
11) 2-Methylnaphthalene	2.933	142	90	3.194	ng/ml	96
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	3.516	153	81	3.095	ng/ml	96
20) Fluorene	3.801	166	151	4.828	ng/ml	97
24) Hexachlorobenzene	0.000		0	N.D.	d	
25) Pentachlorophenol	0.000		0	N.D.	d	

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 30219-07.D
Acq On : 04 Jun 2024 04:52 pm
Operator : sv119:jjw
Sample : L2430219-07,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Jun 06 11:28:17 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240604LVI\ccv0604.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.330	178	360M6	7.941	ng/ml	
27) Anthracene	4.360	178	359M4	7.986	ng/ml	
28) Fluoranthene	4.998	202	434M6	7.264	ng/ml	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	5.840	228	788M4	5.000	ng/ml	
34) Chrysene	5.854	228	263M6	5.276	ng/ml	
37) Benzo[b]fluoranthene	6.505	252	390	7.008	ng/ml	93
38) Benzo[k]fluoranthene	6.521	252	229M4	4.334	ng/ml	
39) Benzo[a]pyrene	6.742	252	202M6	4.124	ng/ml	
40) Indeno[1,2,3-cd]pyrene	7.744	276	228M3	4.283	ng/ml	
41) Dibenzo[a,h]anthracene	7.774	278	144M4	2.907	ng/ml	
42) Benzo[g,h,i]perylene	8.007	276	318M4	5.872	ng/ml	

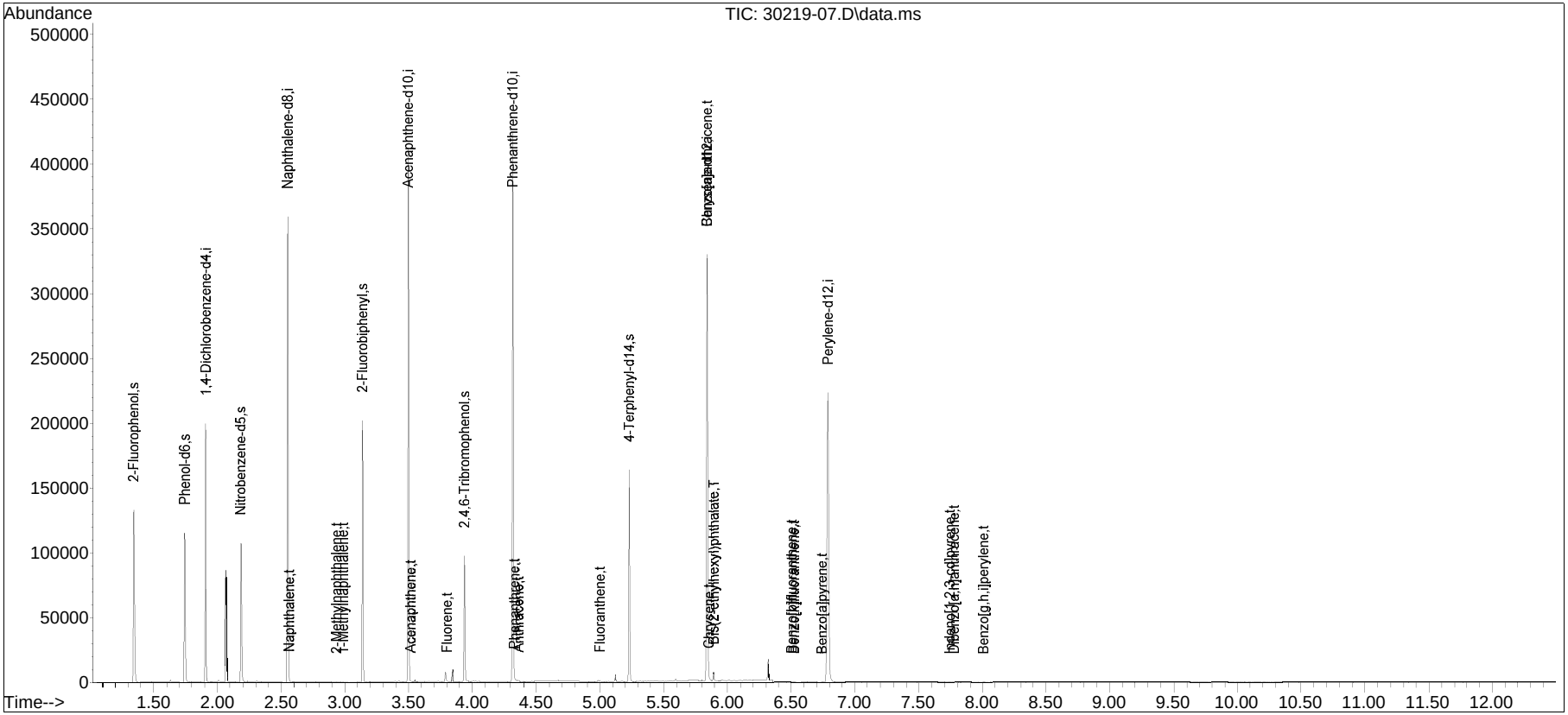
(#) = qualifier out of range (m) = manual integration (+) = signals summed

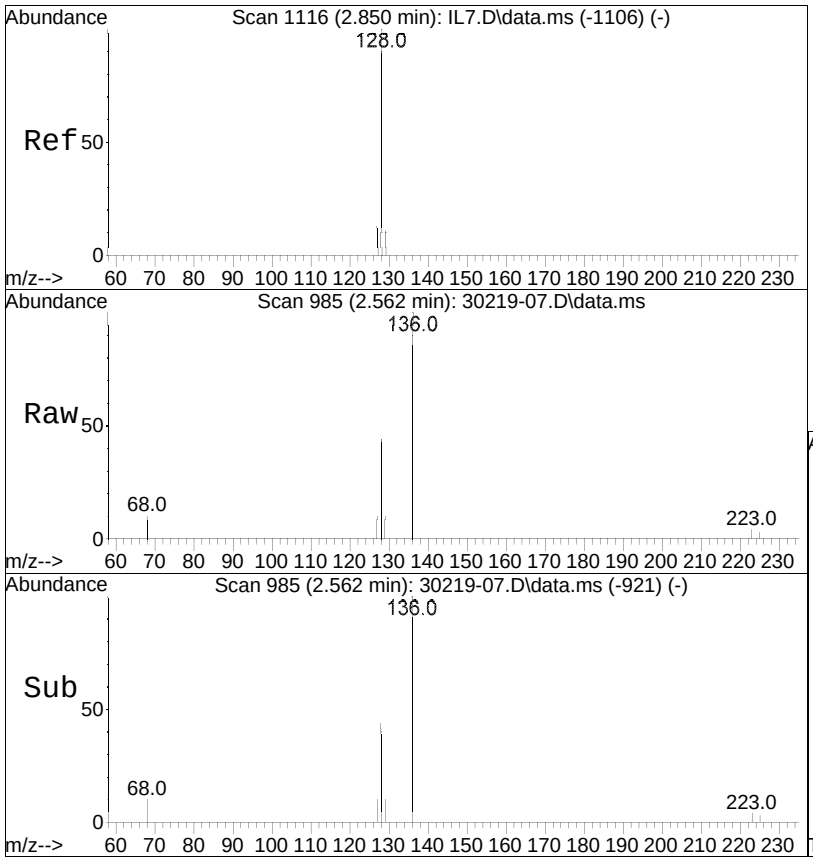
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 30219-07.D
Acq On : 04 Jun 2024 04:52 pm
Operator : sv119:jjw
Sample : L2430219-07,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Jun 06 11:28:17 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0604.D•

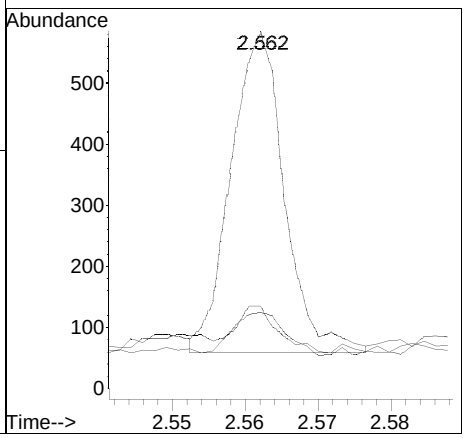


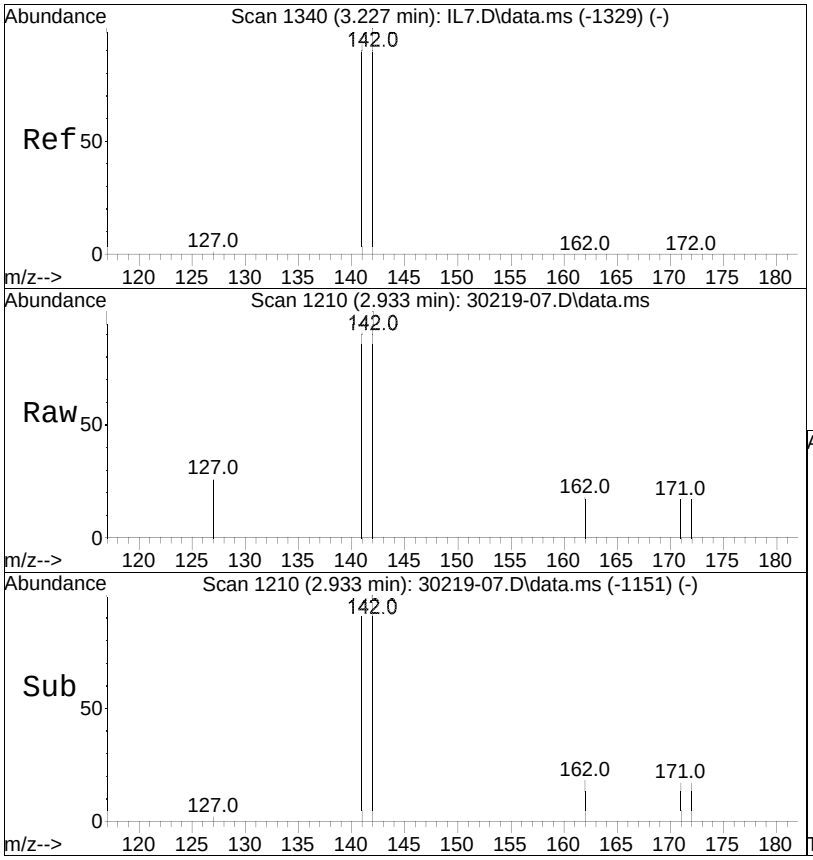


#9
Naphthalene
Concen: 6.93 ng/ml M4
RT: 2.562 min Scan# 985
Delta R.T. 0.003 min
Lab File: 30219-07.D
Acq: 04 Jun 2024 04:52 pm

Tgt Ion:128 Resp: 264

Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.8	13.2
127	12.9	10.6	15.8

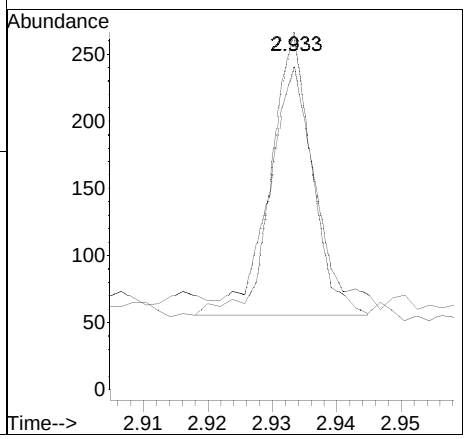


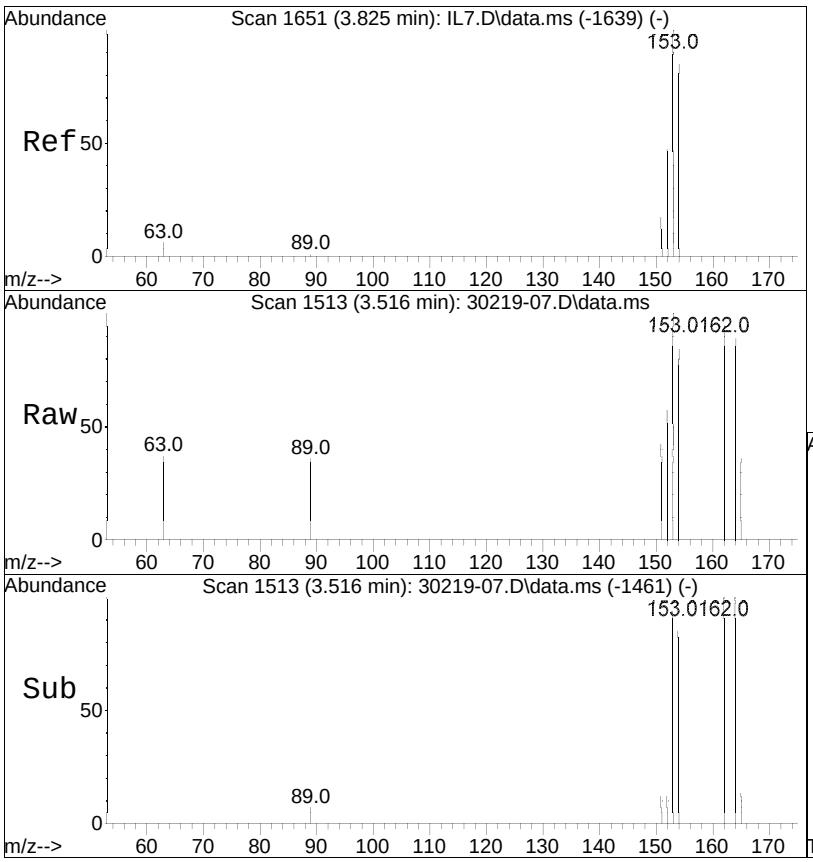


#11
2-Methylnaphthalene
Concen: 3.19 ng/ml
RT: 2.933 min Scan# 1210
Delta R.T. 0.004 min
Lab File: 30219-07.D
Acq: 04 Jun 2024 04:52 pm

Tgt Ion:142 Resp: 90

Ion	Ratio	Lower	Upper
142	100		
141	96.7	74.1	111.1

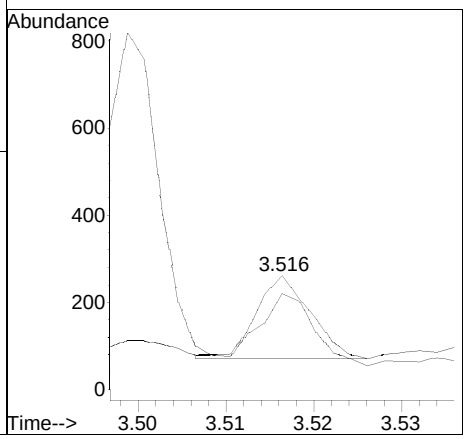


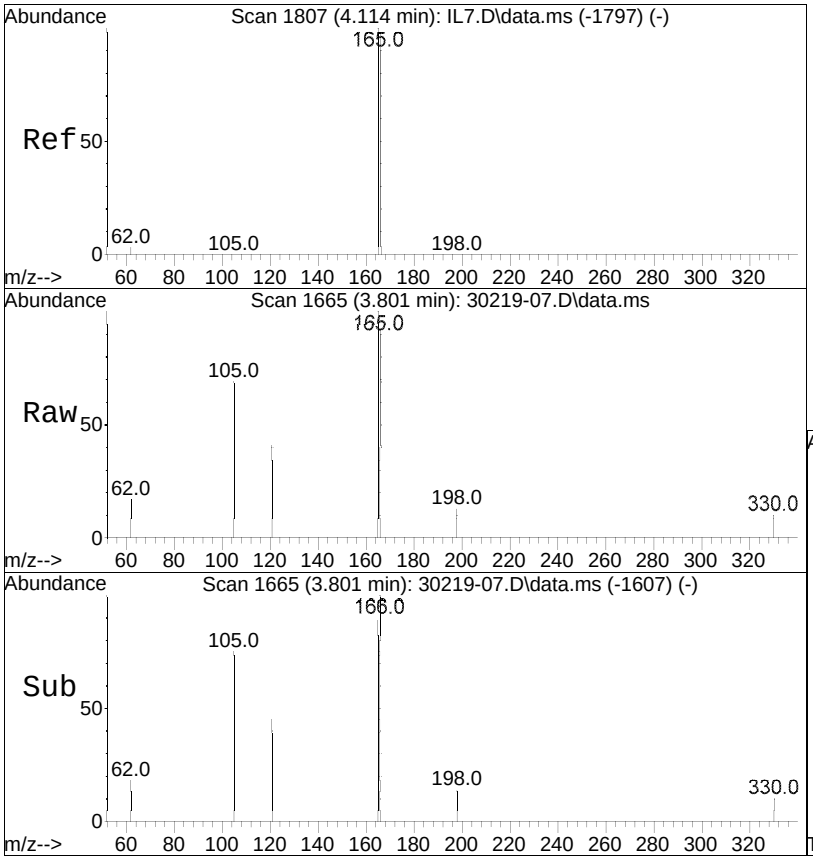


#18
Acenaphthene
Concen: 3.10 ng/ml
RT: 3.516 min Scan# 1513
Delta R.T. 0.002 min
Lab File: 30219-07.D
Acq: 04 Jun 2024 04:52 pm

Tgt Ion:153 Resp: 81

Ion	Ratio	Lower	Upper
153	100		
154	87.7	66.9	100.3

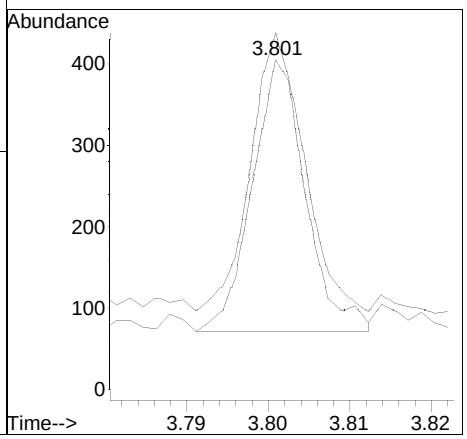


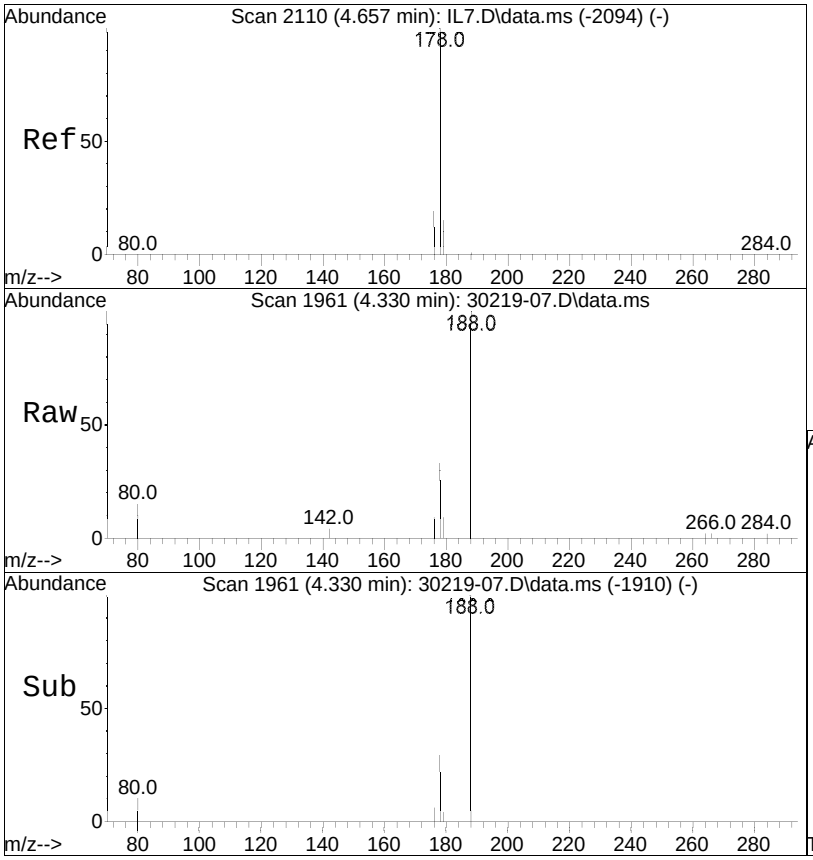


#20
Fluorene
Concen: 4.83 ng/ml
RT: 3.801 min Scan# 1665
Delta R.T. 0.000 min
Lab File: 30219-07.D
Acq: 04 Jun 2024 04:52 pm

Tgt Ion:166 Resp: 151

Ion	Ratio	Lower	Upper
166	100		
165	106.6	82.9	124.3

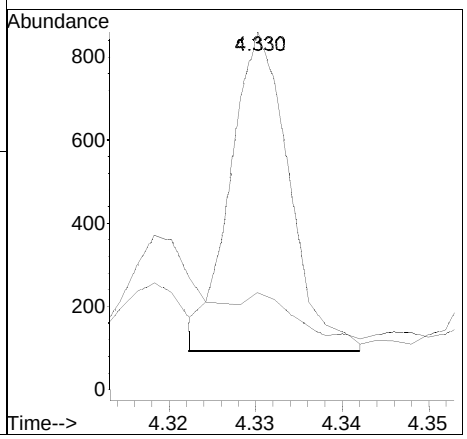


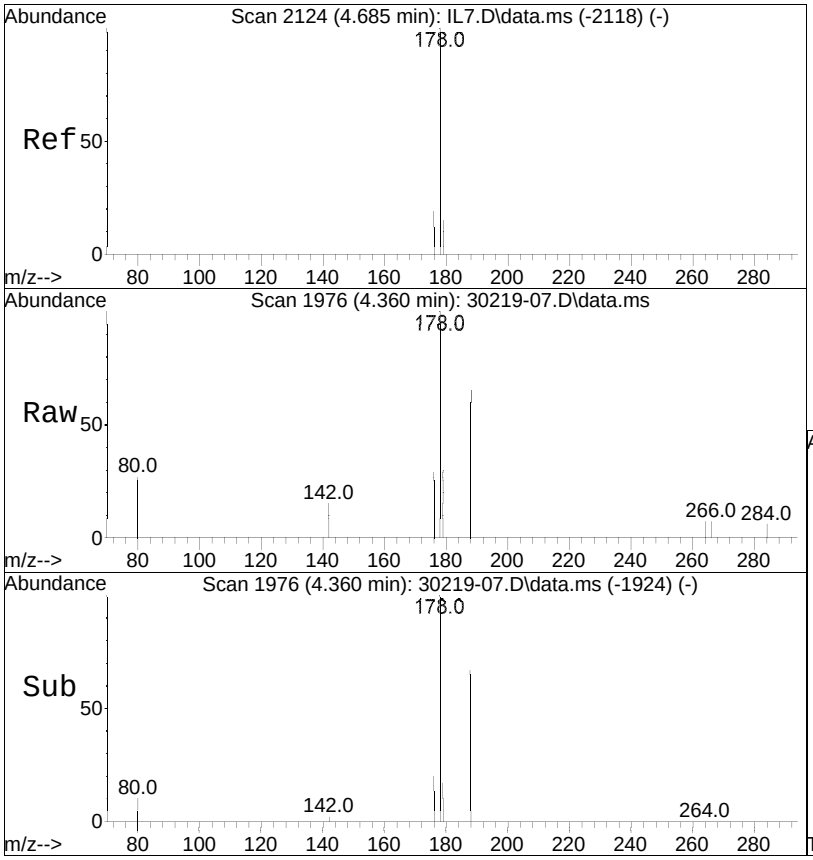


#26
Phenanthrene
Concen: 7.94 ng/ml M6
RT: 4.330 min Scan# 1961
Delta R.T. 0.000 min
Lab File: 30219-07.D
Acq: 04 Jun 2024 04:52 pm

Tgt Ion:178 Resp: 360

Ion	Ratio	Lower	Upper
178	100		
179	12.5	12.3	18.5

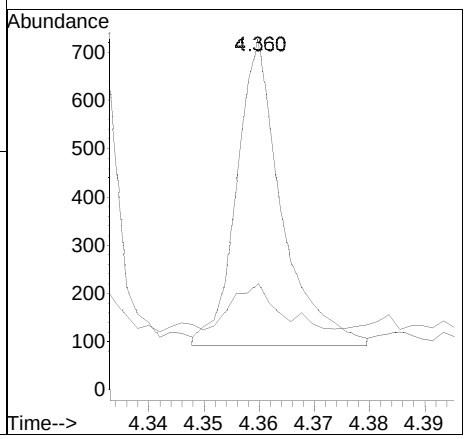


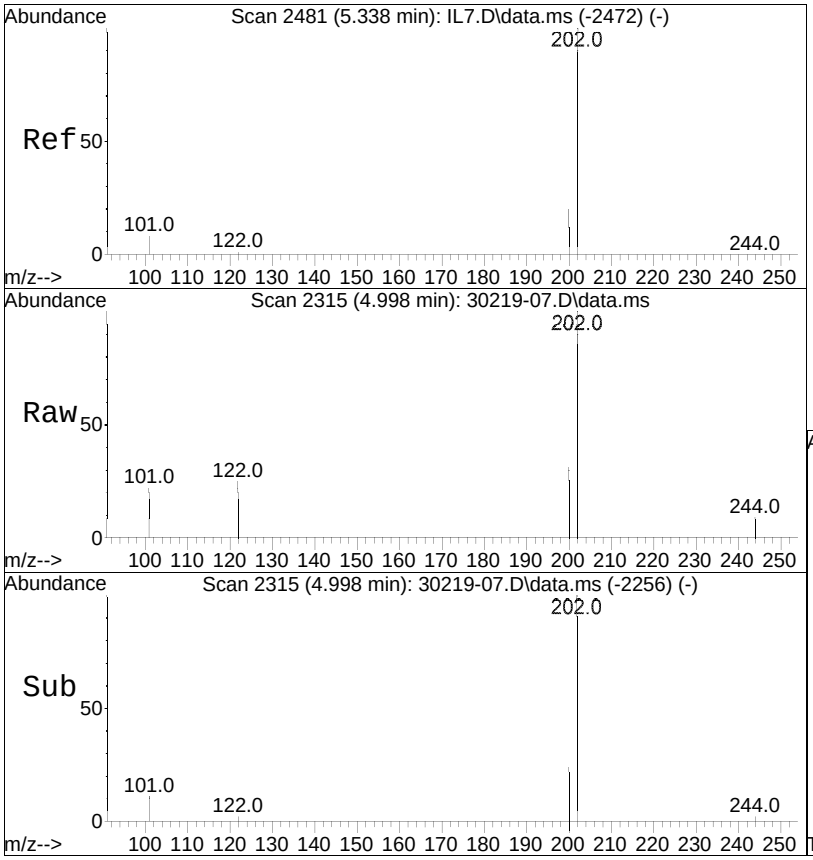


#27
Anthracene
Concen: 7.99 ng/ml M4
RT: 4.360 min Scan# 1976
Delta R.T. 0.002 min
Lab File: 30219-07.D
Acq: 04 Jun 2024 04:52 pm

Tgt Ion:178 Resp: 359

Ion	Ratio	Lower	Upper
178	100		
179	18.4	12.2	18.4#

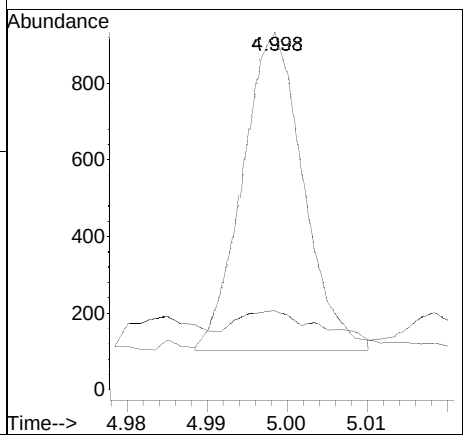


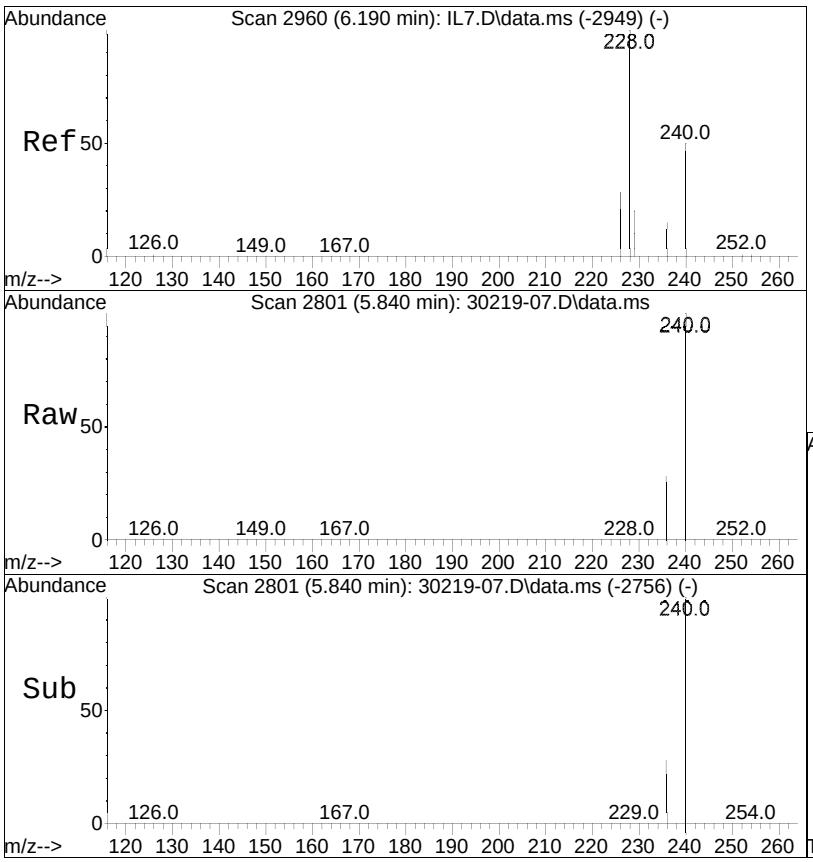


#28
Fluoranthene
Concen: 7.26 ng/ml M6
RT: 4.998 min Scan# 2315
Delta R.T. -0.001 min
Lab File: 30219-07.D
Acq: 04 Jun 2024 04:52 pm

Tgt Ion:202 Resp: 434

Ion	Ratio	Lower	Upper
202	100		
101	20.3	8.3	12.5#

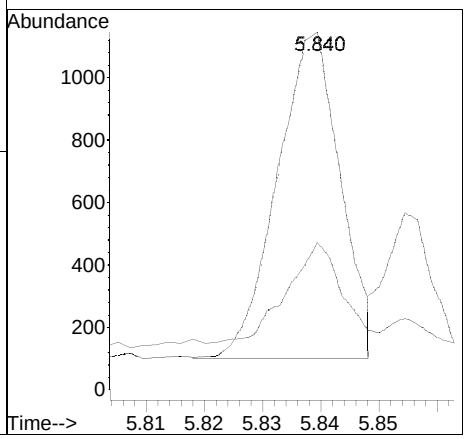


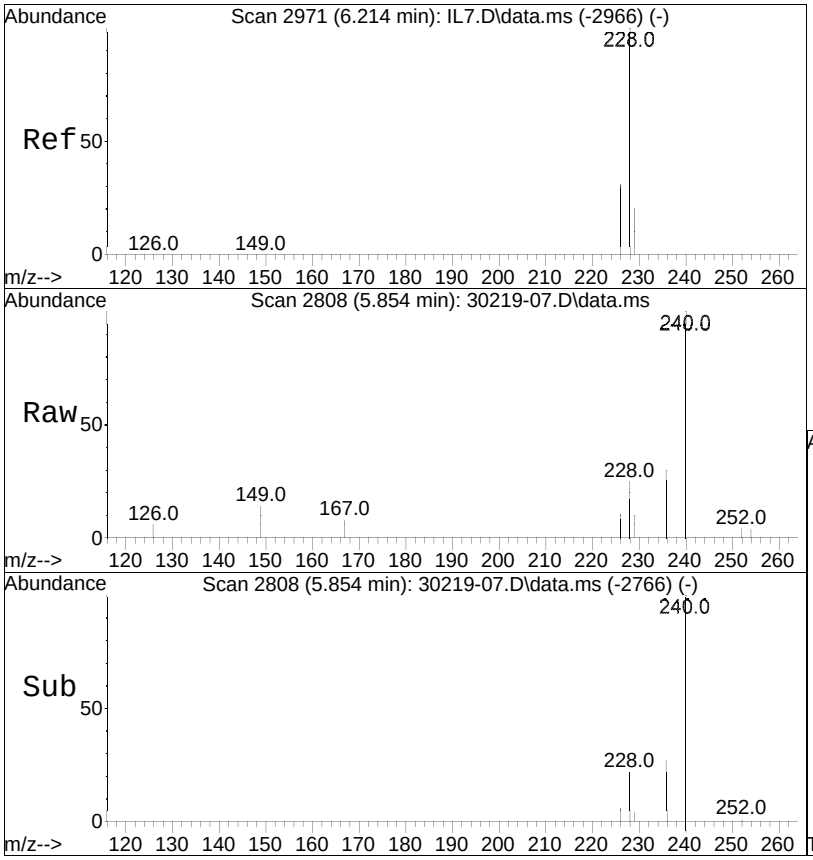


#32
Benzo[a]anthracene
Concen: 5.00 ng/ml M4
RT: 5.840 min Scan# 2801
Delta R.T. -0.004 min
Lab File: 30219-07.D
Acq: 04 Jun 2024 04:52 pm

Tgt Ion:228 Resp: 788

Ion	Ratio	Lower	Upper
228	100		
229	33.0	15.6	23.4#

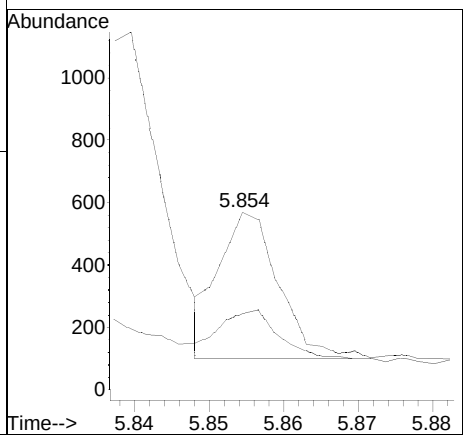


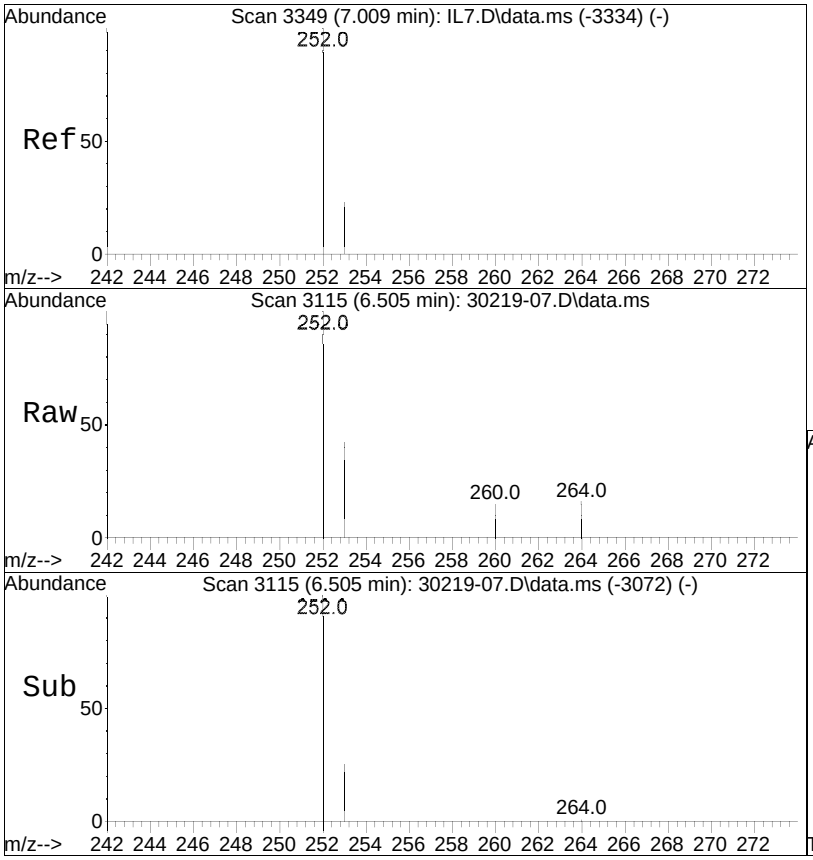


#34
Chrysene
Concen: 5.28 ng/ml M6
RT: 5.854 min Scan# 2808
Delta R.T. -0.010 min
Lab File: 30219-07.D
Acq: 04 Jun 2024 04:52 pm

Tgt Ion:228 Resp: 263

Ion	Ratio	Lower	Upper
228	100		
226	44.9	24.5	36.7#

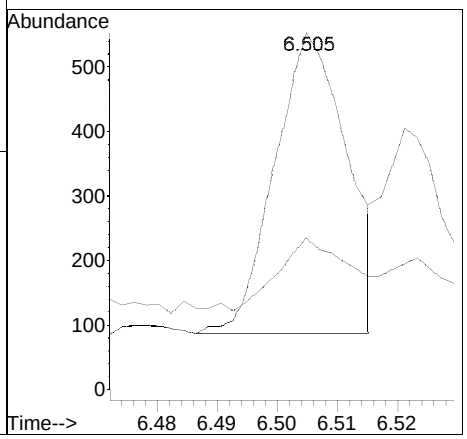


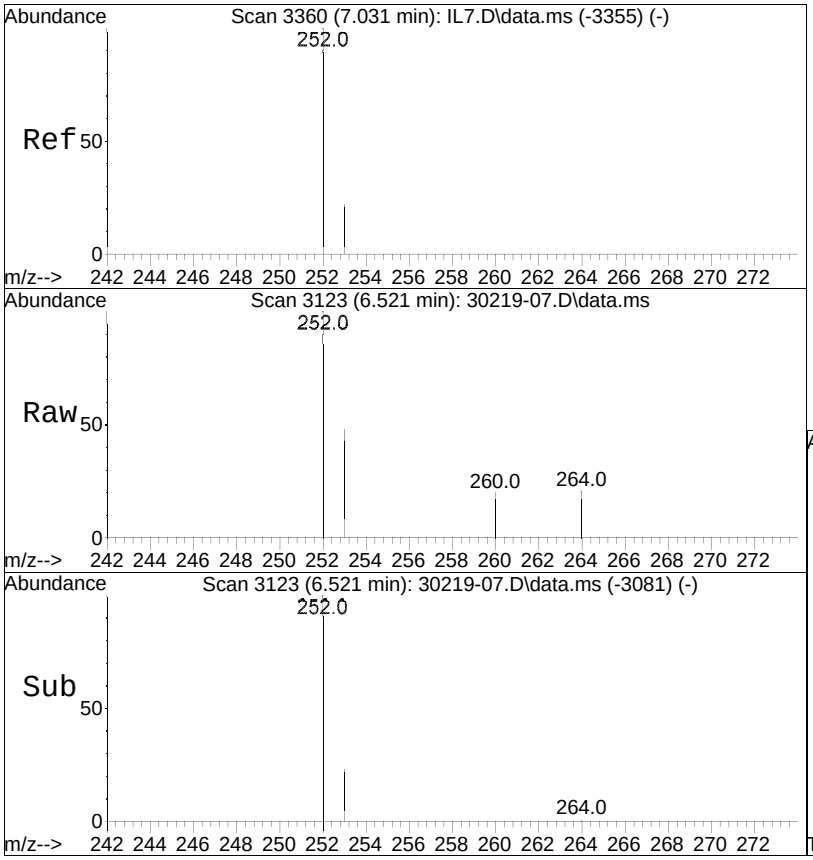


#37
Benzo[b]fluoranthene
Concen: 7.01 ng/ml
RT: 6.505 min Scan# 3115
Delta R.T. -0.012 min
Lab File: 30219-07.D
Acq: 04 Jun 2024 04:52 pm

Tgt Ion:252 Resp: 390

Ion	Ratio	Lower	Upper
252	100		
253	24.9	17.3	25.9

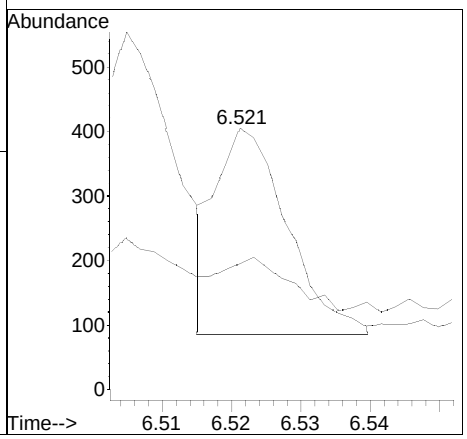


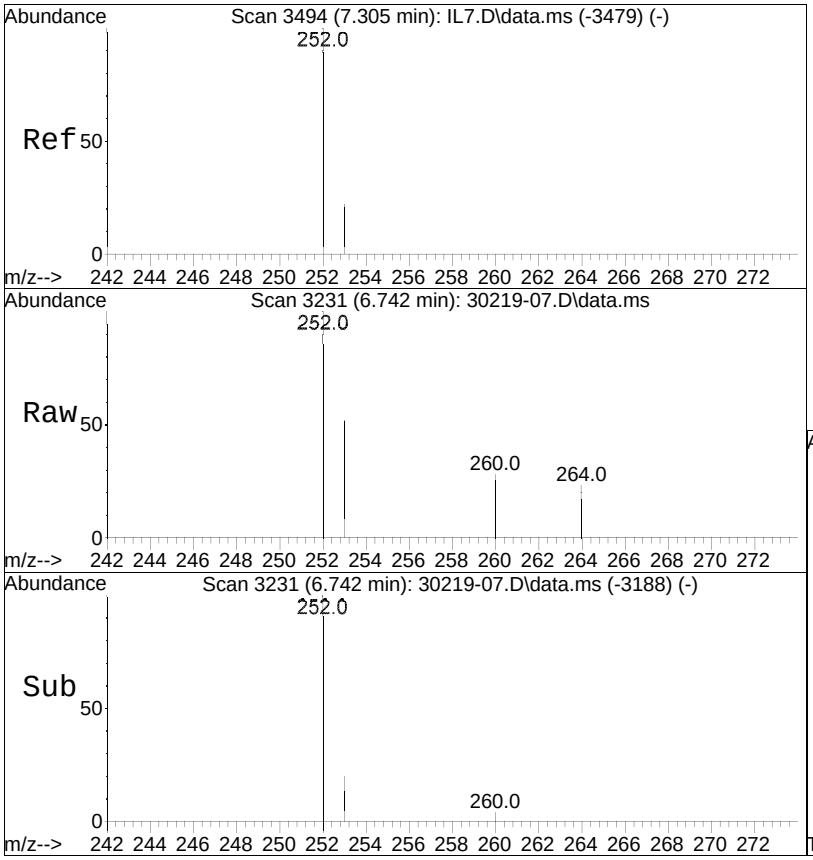


#38
Benzo[k]fluoranthene
Concen: 4.33 ng/ml M4
RT: 6.521 min Scan# 3123
Delta R.T. -0.014 min
Lab File: 30219-07.D
Acq: 04 Jun 2024 04:52 pm

Tgt Ion:252 Resp: 229

Ion	Ratio	Lower	Upper
252	100		
253	25.3	17.4	26.2

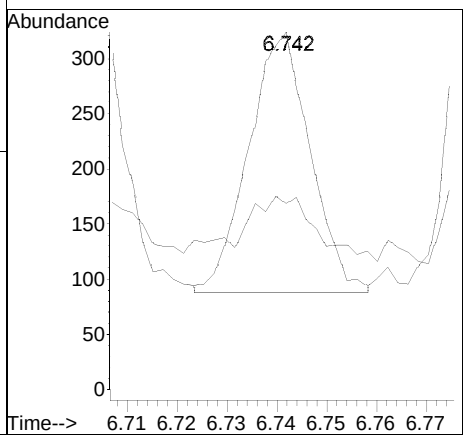


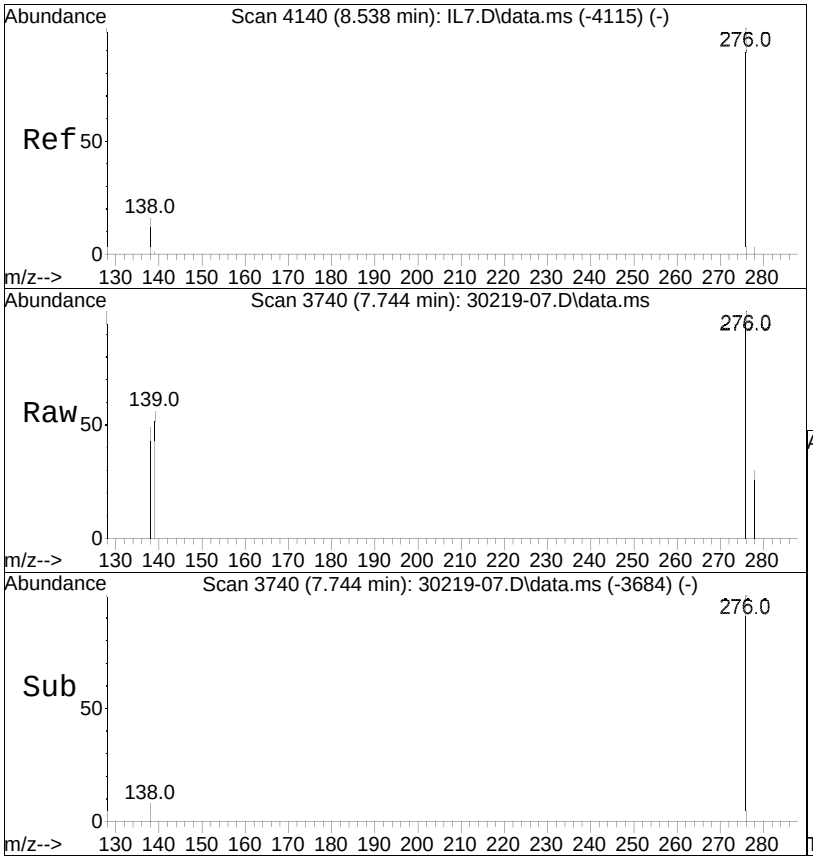


#39
Benzo[a]pyrene
Concen: 4.12 ng/ml M6
RT: 6.742 min Scan# 3231
Delta R.T. -0.012 min
Lab File: 30219-07.D
Acq: 04 Jun 2024 04:52 pm

Tgt Ion:252 Resp: 202

Ion	Ratio	Lower	Upper
252	100		
253	26.7	17.4	26.0#

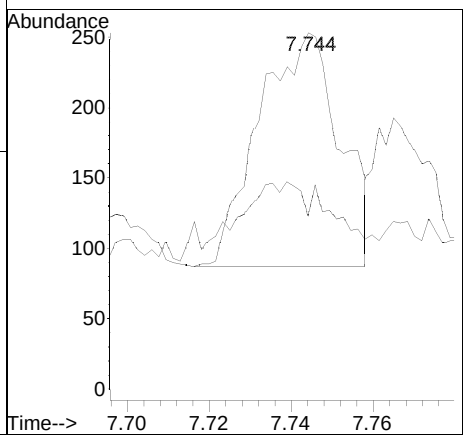


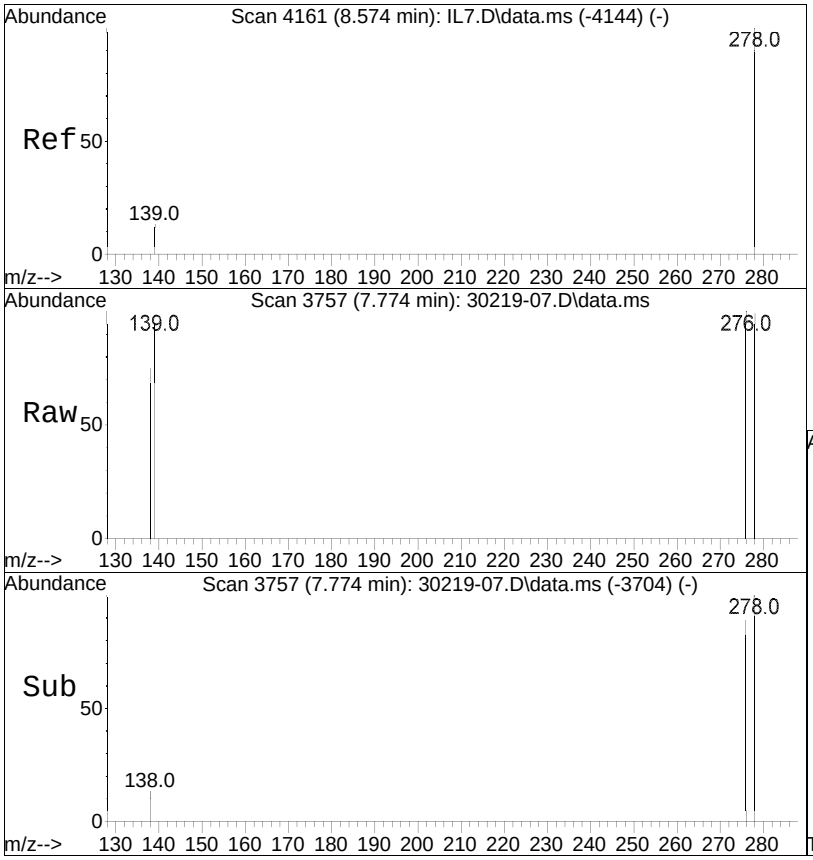


#40
Indeno[1,2,3-cd]pyrene
Concen: 4.28 ng/ml M3
RT: 7.744 min Scan# 3740
Delta R.T. -0.003 min
Lab File: 30219-07.D
Acq: 04 Jun 2024 04:52 pm

Tgt Ion:276 Resp: 228

Ion	Ratio	Lower	Upper
276	100		
138	29.8	14.8	22.2#

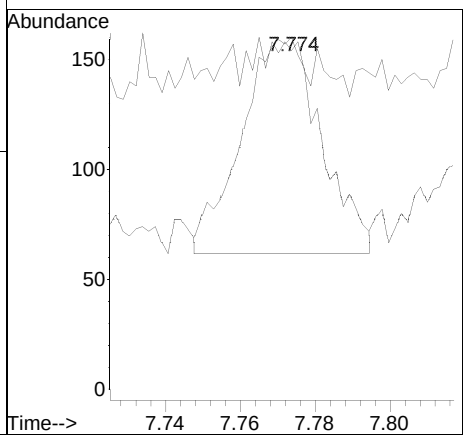


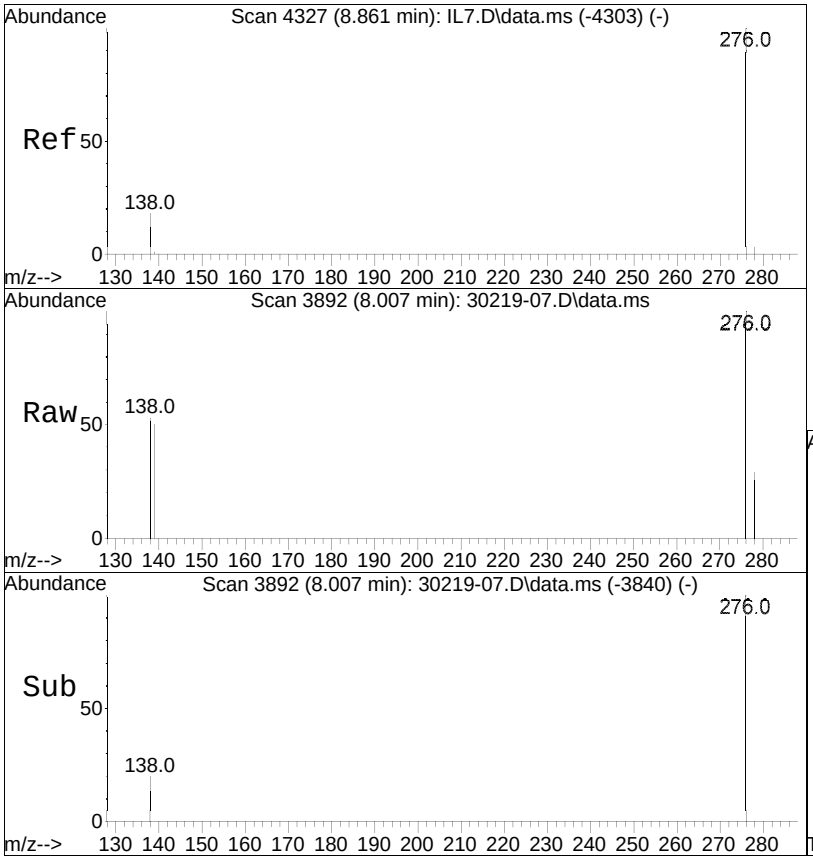


#41
Dibenzo[a,h]anthracene
Concen: 2.91 ng/ml M4
RT: 7.774 min Scan# 3757
Delta R.T. -0.008 min
Lab File: 30219-07.D
Acq: 04 Jun 2024 04:52 pm

Tgt Ion:278 Resp: 144

Ion	Ratio	Lower	Upper
278	100		
139	16.7	12.2	18.4

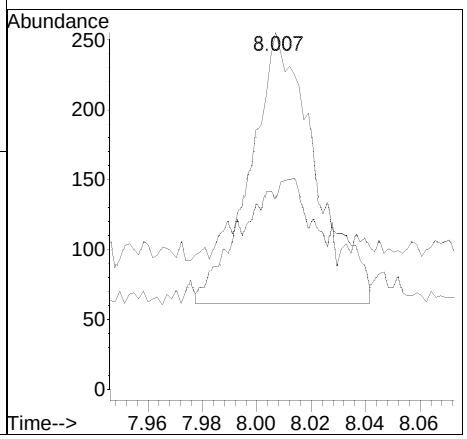




#42
Benzo[g,h,i]perylene
Concen: 5.87 ng/ml M4
RT: 8.007 min Scan# 3892
Delta R.T. -0.010 min
Lab File: 30219-07.D
Acq: 04 Jun 2024 04:52 pm

Tgt Ion:276 Resp: 318

Ion	Ratio	Lower	Upper
276	100		
138	19.5	16.8	25.2

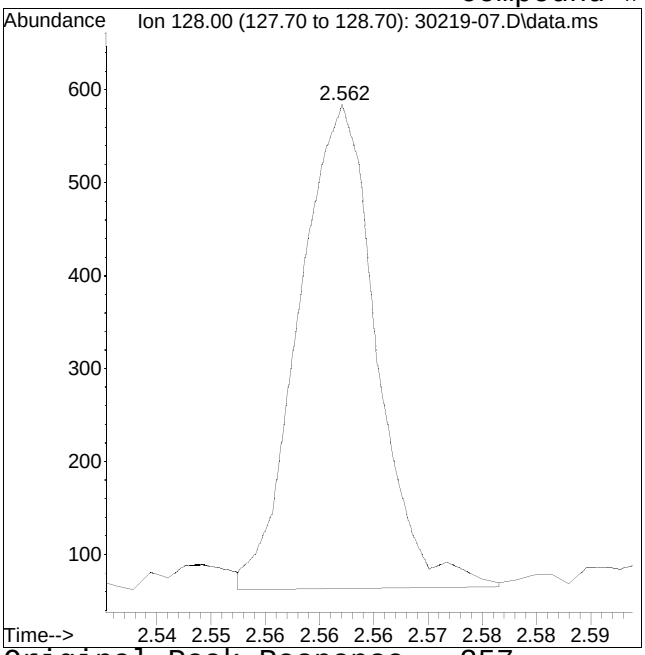


Manual Integration Report

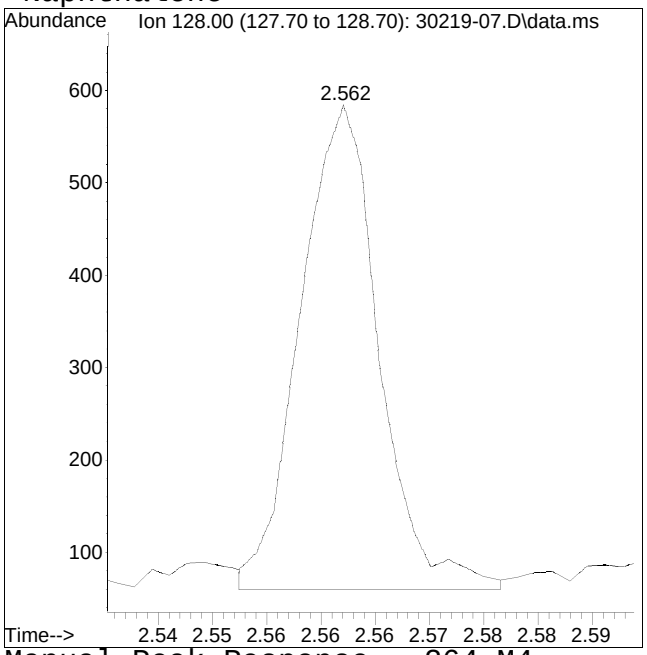
Data Path : I:\8270SIM\sv119\240604LVIQ
Data File : 30219-07.D
Date Inj'd : 6/4/2024 4:52 pm
Sample : L2430219-07,32,,ah

Method : SIM-LVI_231207n_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 6/4/2024 5:07 pm

Compound #9: Naphthalene



Original Peak Response = 257



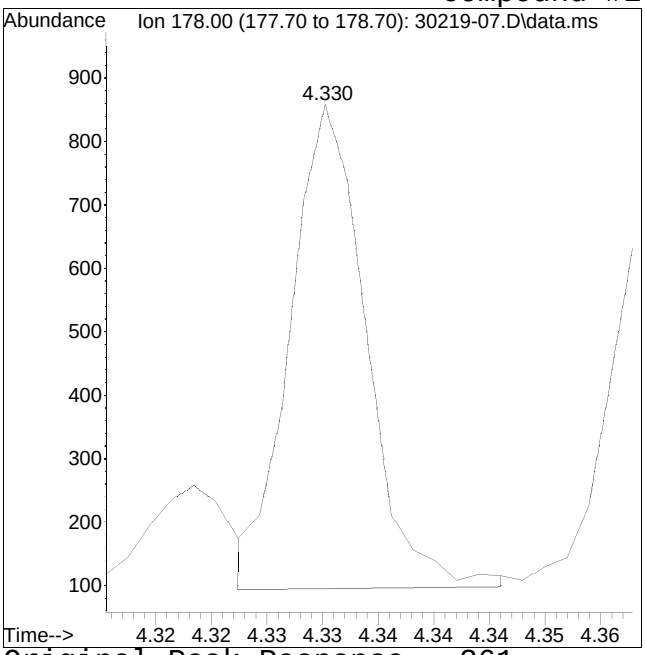
Manual Peak Response = 264 M4

M4 = Poor automated baseline construction.

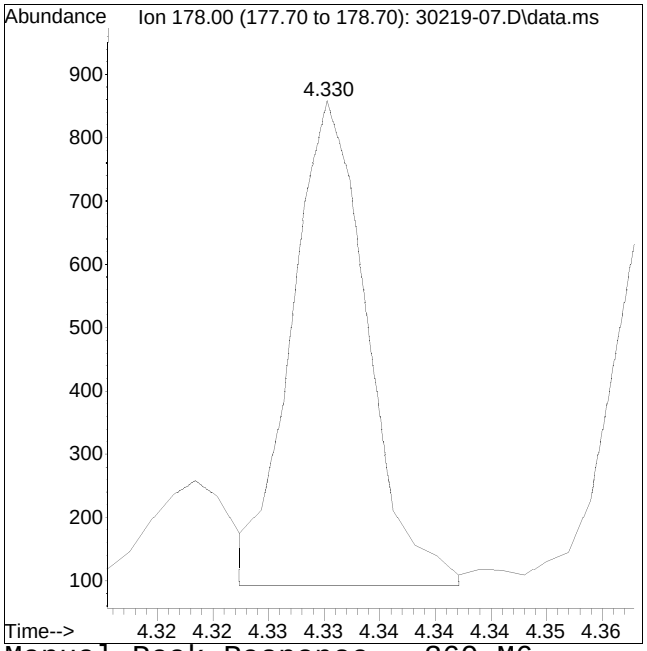
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-07.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 4:52 pm Instrument : SV119
Sample : L2430219-07,32,,ah Quant Date : 6/4/2024 5:07 pm

Compound #26: Phenanthrene



Original Peak Response = 361



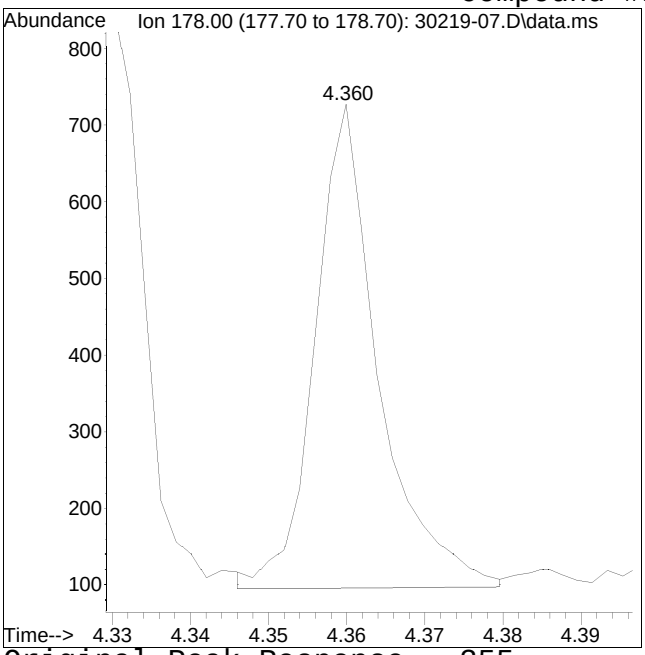
Manual Peak Response = 360 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

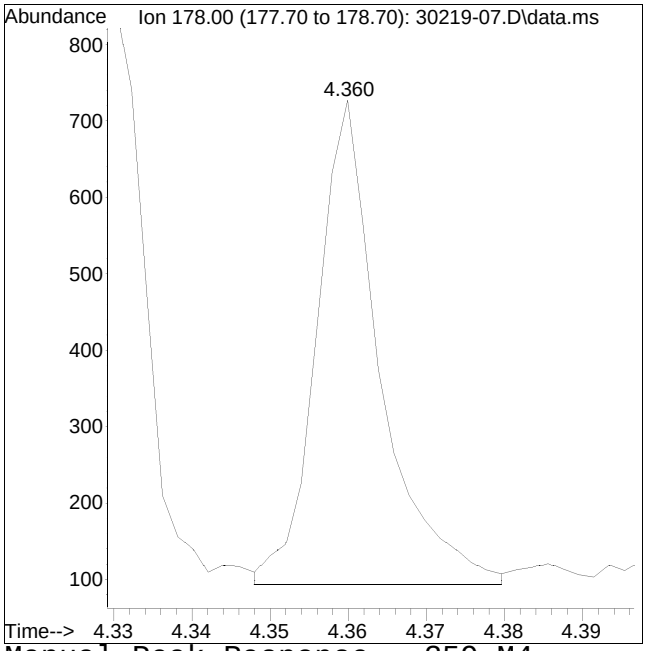
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-07.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 4:52 pm Instrument : SV119
Sample : L2430219-07,32,,ah Quant Date : 6/4/2024 5:07 pm

Compound #27: Anthracene



Original Peak Response = 355



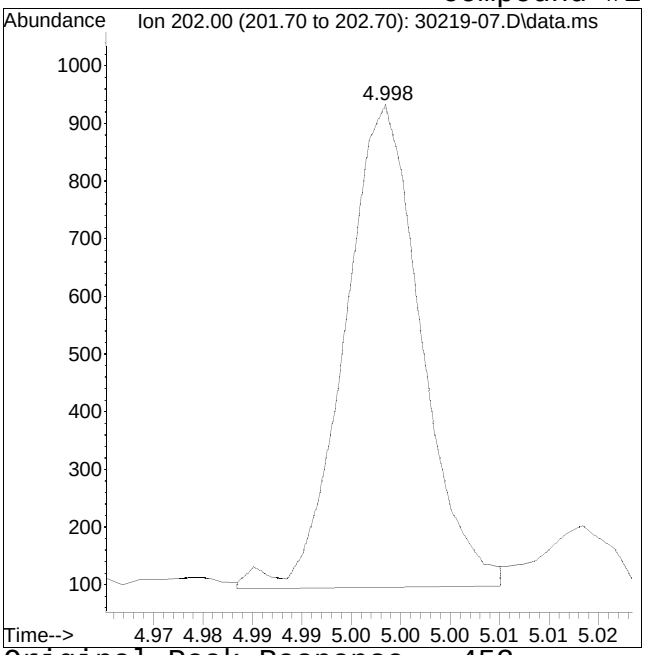
Manual Peak Response = 359 M4

M4 = Poor automated baseline construction.

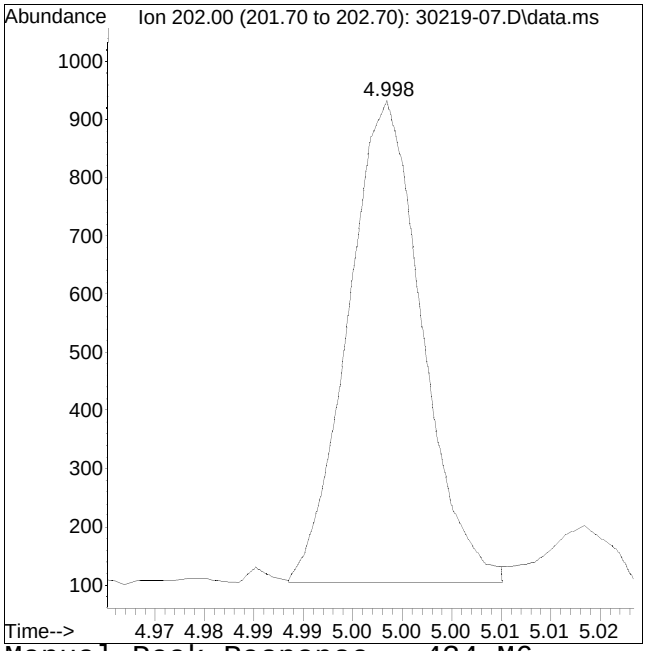
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-07.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 4:52 pm Instrument : SV119
Sample : L2430219-07,32,,ah Quant Date : 6/4/2024 5:07 pm

Compound #28: Fluoranthene



Original Peak Response = 452



Manual Peak Response = 434 M6

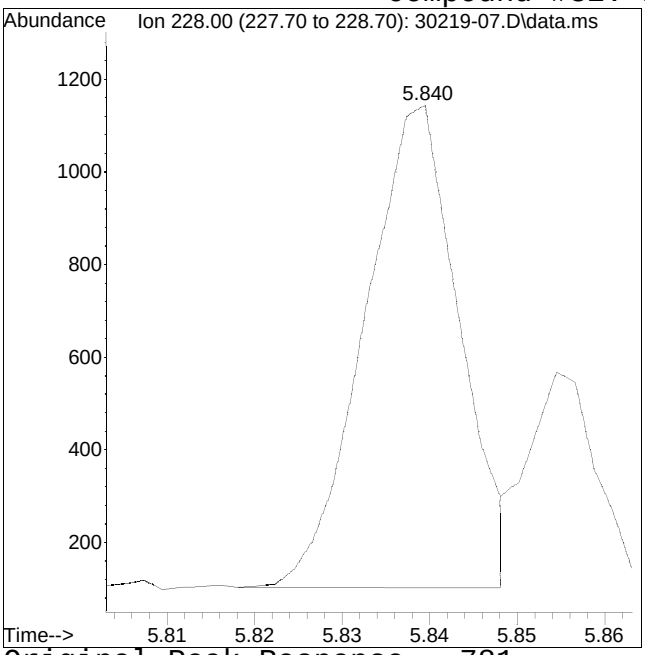
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

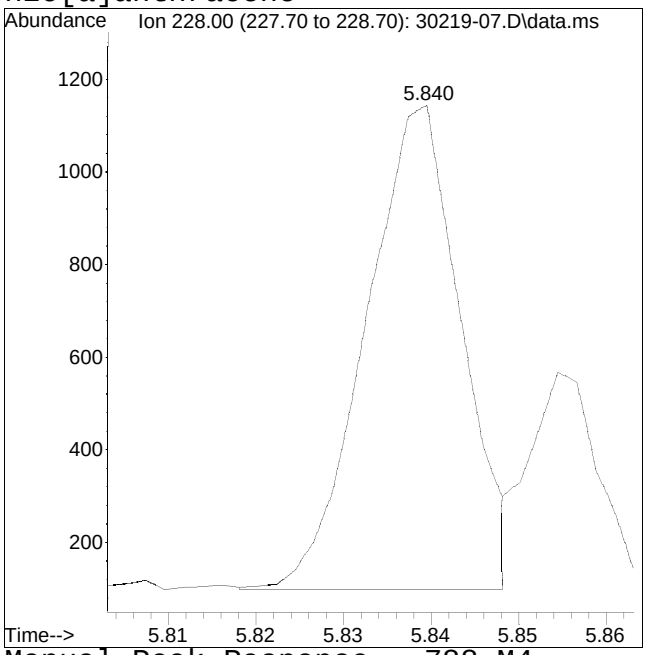
Data Path : I:\8270SIM\sv119\240604LVIQ
Data File : 30219-07.D
Date Inj'd : 6/4/2024 4:52 pm
Sample : L2430219-07,32,,ah

Method : SIM-LVI_231207n_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 6/4/2024 5:07 pm

Compound #32: Benzo[a]anthracene



Original Peak Response = 781



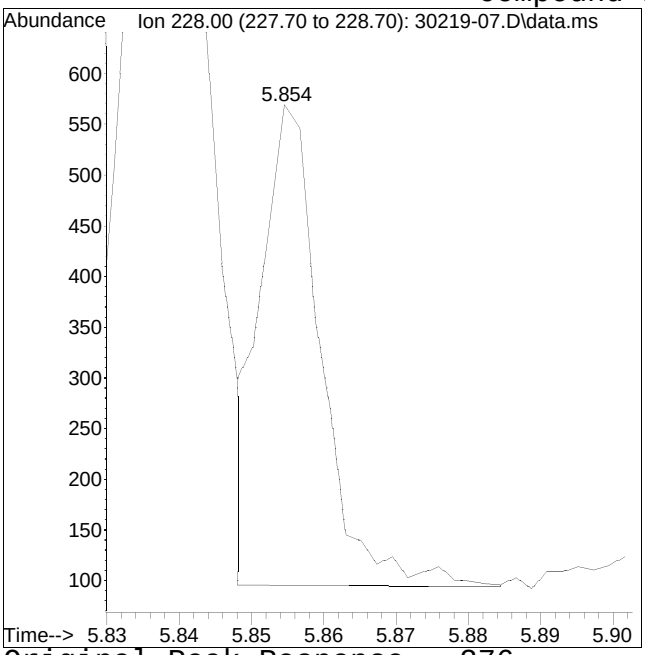
Manual Peak Response = 788 M4

M4 = Poor automated baseline construction.

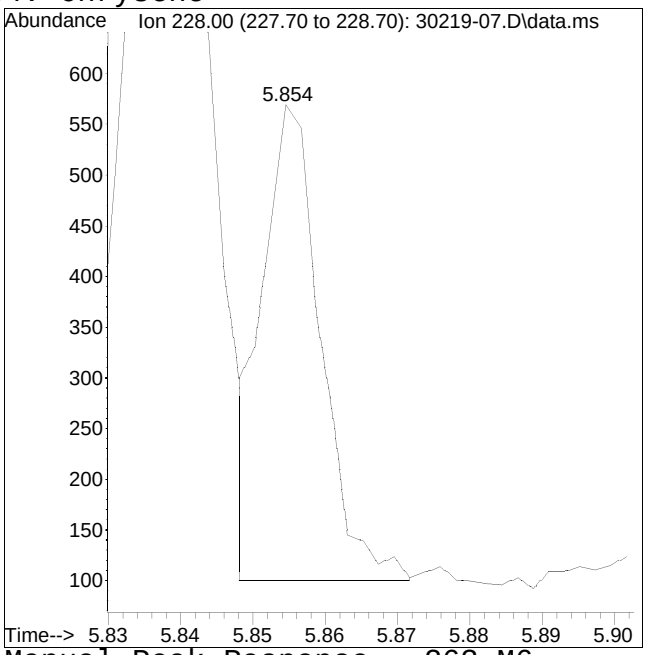
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-07.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 4:52 pm Instrument : SV119
Sample : L2430219-07,32,,ah Quant Date : 6/4/2024 5:07 pm

Compound #34: Chrysene



Original Peak Response = 276



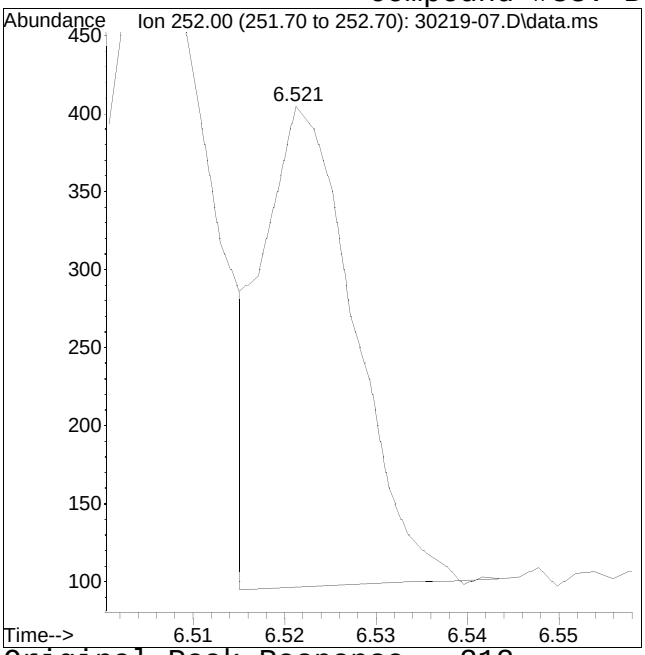
Manual Peak Response = 263 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

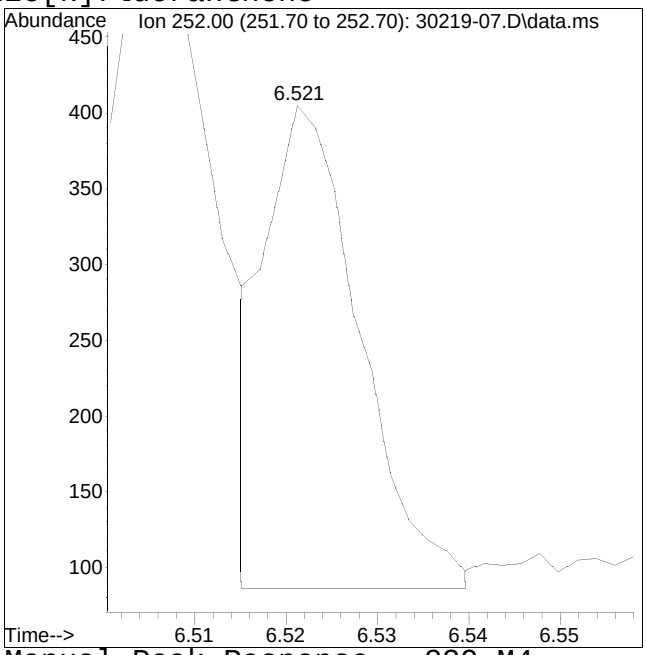
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-07.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 4:52 pm Instrument : SV119
Sample : L2430219-07,32,,ah Quant Date : 6/4/2024 5:07 pm

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 212



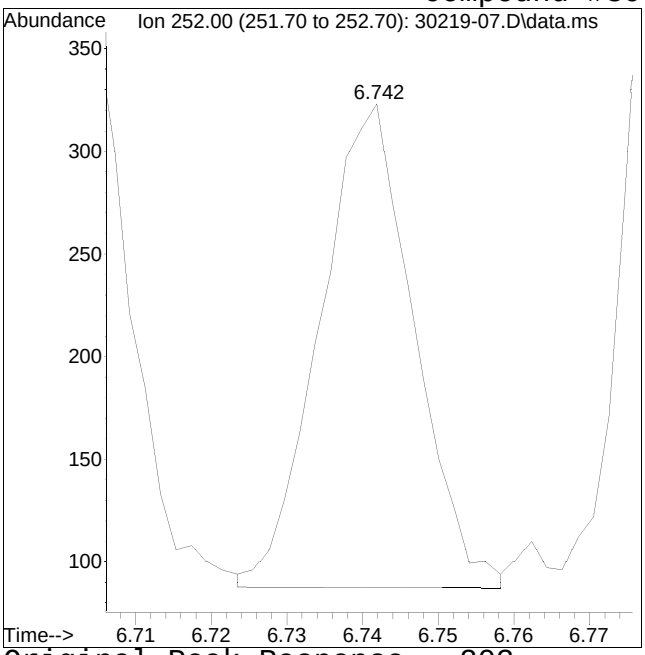
Manual Peak Response = 229 M4

M4 = Poor automated baseline construction.

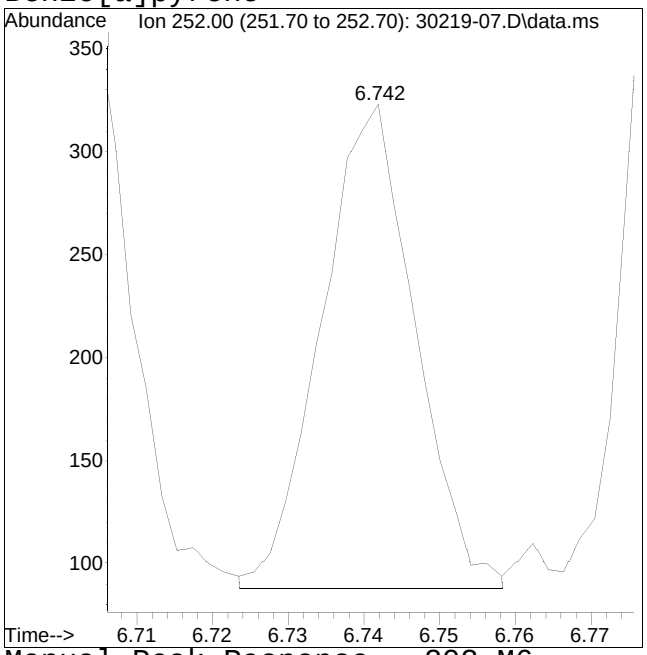
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-07.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 4:52 pm Instrument : SV119
Sample : L2430219-07,32,,ah Quant Date : 6/4/2024 5:07 pm

Compound #39: Benzo[a]pyrene



Original Peak Response = 203



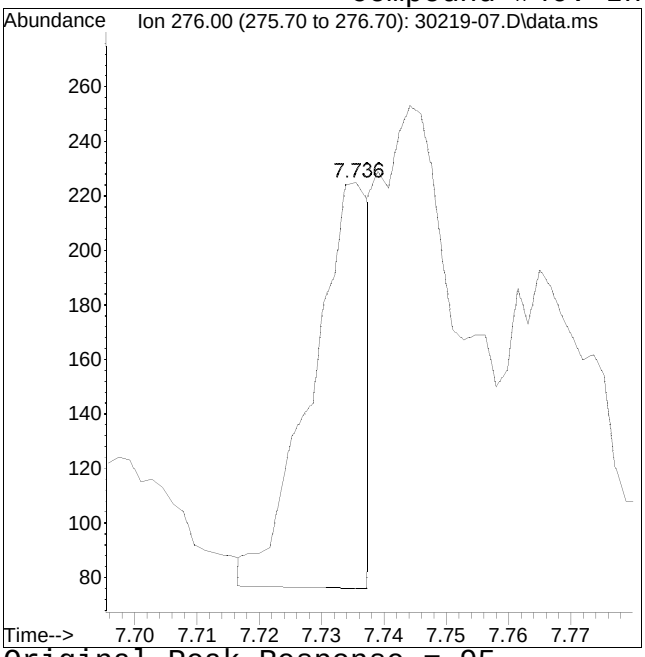
Manual Peak Response = 202 M6

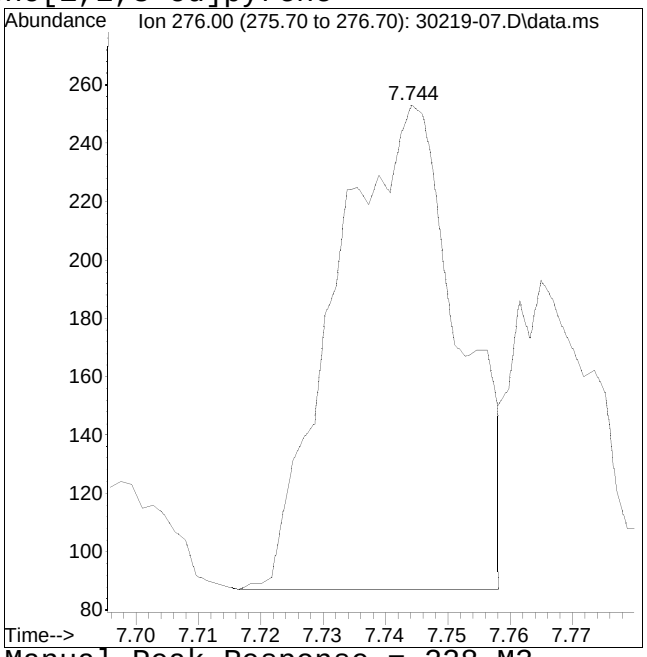
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-07.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 4:52 pm Instrument : SV119
Sample : L2430219-07,32,,ah Quant Date : 6/4/2024 5:07 pm

Compound #40: Indeno[1,2,3-cd]pyrene



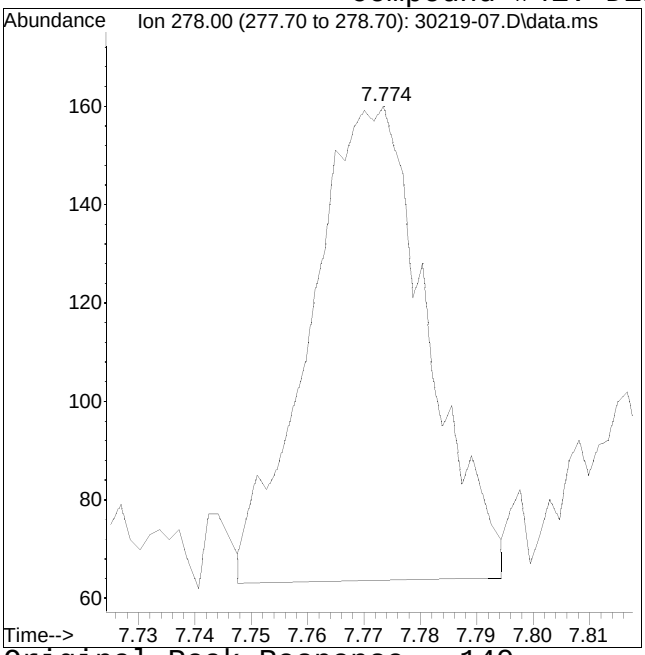


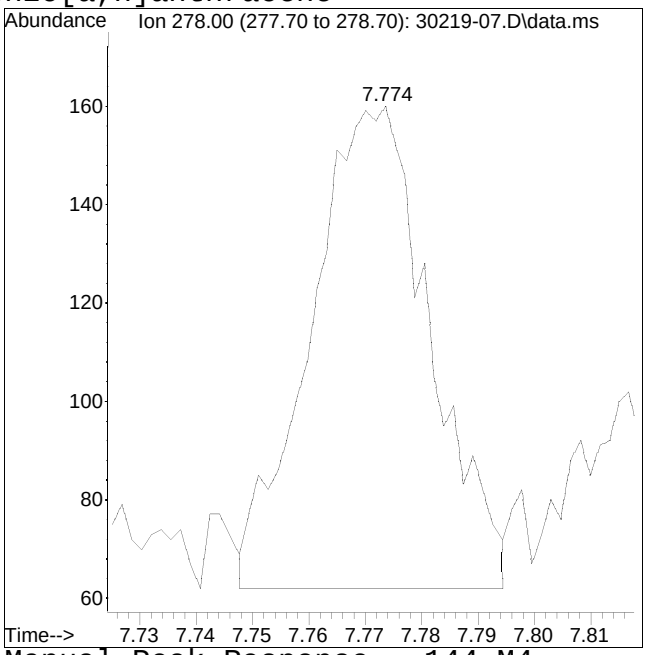
Original Peak Response = 95 Manual Peak Response = 228 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-07.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 4:52 pm Instrument : SV119
Sample : L2430219-07,32,,ah Quant Date : 6/4/2024 5:07 pm

Compound #41: Dibenzo[a,h]anthracene



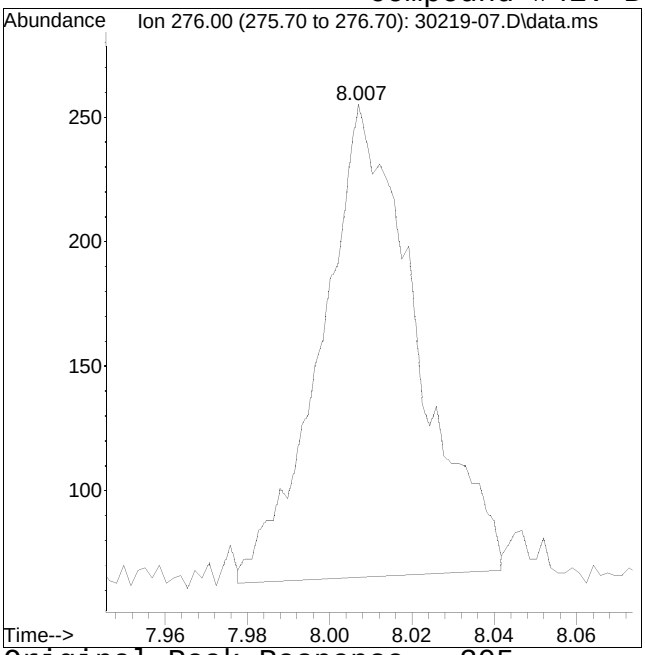


Original Peak Response = 140 Manual Peak Response = 144 M4
M4 = Poor automated baseline construction.

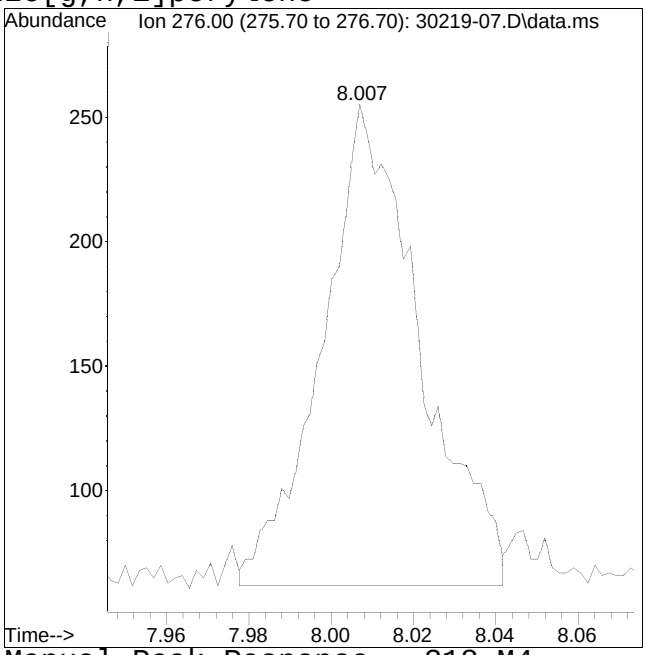
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-07.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 4:52 pm Instrument : SV119
Sample : L2430219-07,32,,ah Quant Date : 6/4/2024 5:07 pm

Compound #42: Benzo[g,h,i]perylene



Original Peak Response = 305



Manual Peak Response = 318 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 30219-08.D
Acq On : 04 Jun 2024 05:08 pm
Operator : sv119:jjw
Sample : L2430219-08,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jun 06 12:20:59 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240604LVI\ccv0604.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.907	152	46440	4000.000	ng/ml	0.00
Standard Area 1 = 56492			Recovery = 82.21%			
8) Naphthalene-d8	2.550	136	156206	4000.000	ng/ml	0.00
Standard Area 1 = 186100			Recovery = 83.94%			
17) Acenaphthene-d10	3.499	164	83771	4000.000	ng/ml	0.00
Standard Area 1 = 98337			Recovery = 85.19%			
22) Phenanthrene-d10	4.317	188	176073	4000.000	ng/ml	0.00
Standard Area 1 = 215749			Recovery = 81.61%			
31) Chrysene-d12	5.842	240	159085	4000.000	ng/ml	0.00
Standard Area 1 = 188074			Recovery = 84.59%			
36) Perylene-d12	6.787	264	169104	4000.000	ng/ml	-0.01
Standard Area 1 = 198758			Recovery = 85.08%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.340	112	42265	3327.399	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 66.55%			
3) Phenol-d6	1.743	99	43209	2837.855	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 56.76%			
7) Nitrobenzene-d5	2.184	82	26018	2252.737	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 90.11%			
13) 2-Fluorobiphenyl	3.138	172	61684	1768.117	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 70.72%			
21) 2,4,6-Tribromophenol	3.936	330	25486	5518.327	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 110.37%#			
30) 4-Terphenyl-d14	5.231	244	63755	1477.055	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 59.08%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	2.561	128	2566M6	68.796	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.	d	
11) 2-Methylnaphthalene	2.934	142	214M6	7.760	ng/ml	
14) 2-Chloronaphthalene	3.195	162	168	5.719	ng/ml	95
16) Acenaphthylene	3.421	152	155	3.551	ng/ml#	54
18) Acenaphthene	3.517	153	70M4	2.703	ng/ml	
20) Fluorene	3.801	166	193M6	6.235	ng/ml	
24) Hexachlorobenzene	4.111	284	93M4	8.170	ng/ml	
25) Pentachlorophenol	0.000		0	N.D.	d	

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 30219-08.D
Acq On : 04 Jun 2024 05:08 pm
Operator : sv119:jjw
Sample : L2430219-08,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jun 06 12:20:59 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240604LVI\ccv0604.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.330	178	481M6	10.754	ng/ml	
27) Anthracene	4.358	178	329M4	7.418	ng/ml	
28) Fluoranthene	4.999	202	406M6	6.888	ng/ml	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	5.842	228	675M2	2.063	ng/ml	
34) Chrysene	5.857	228	125	2.381	ng/ml#	71
37) Benzo[b]fluoranthene	6.505	252	133	2.251	ng/ml#	87
38) Benzo[k]fluoranthene	6.526	252	76M1	1.355	ng/ml	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

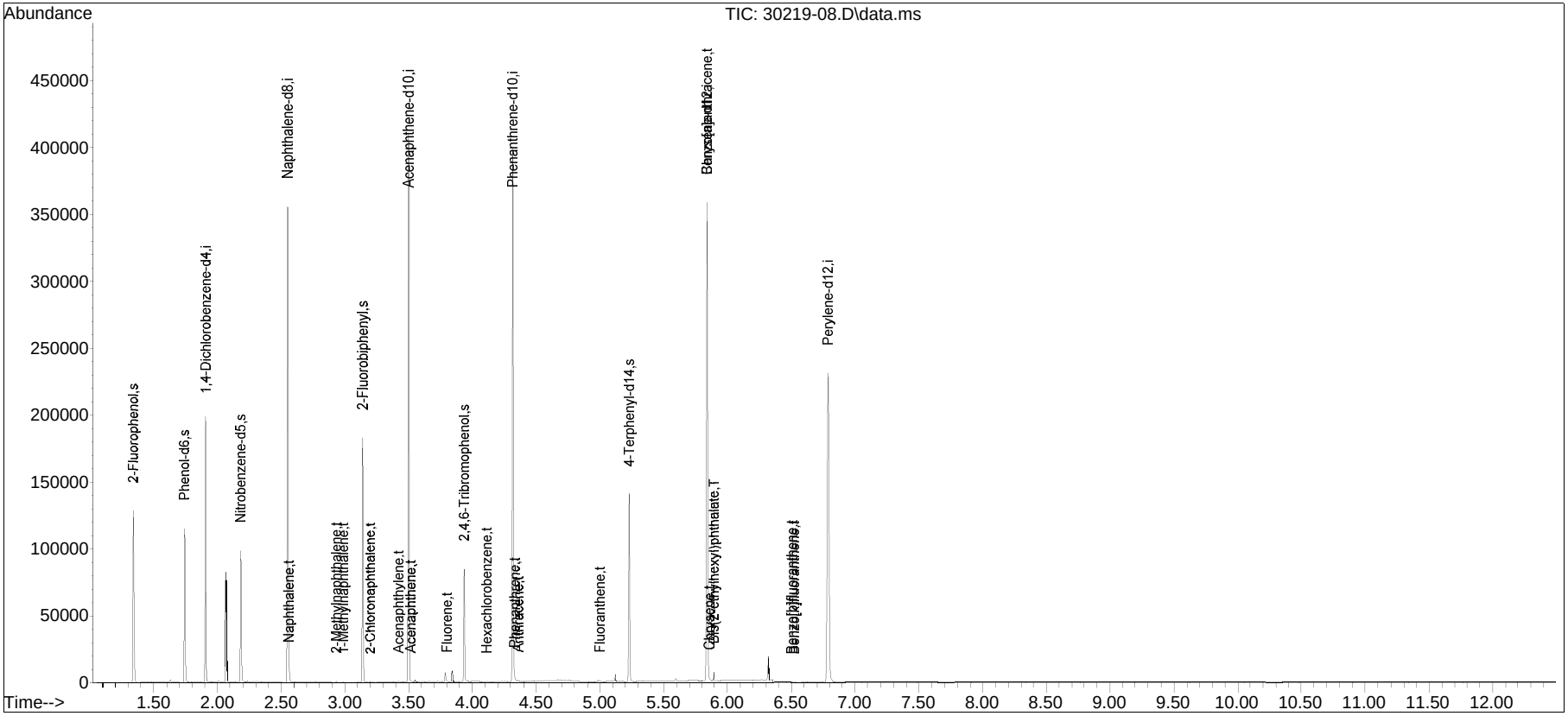
(#) = qualifier out of range (m) = manual integration (+) = signals summed

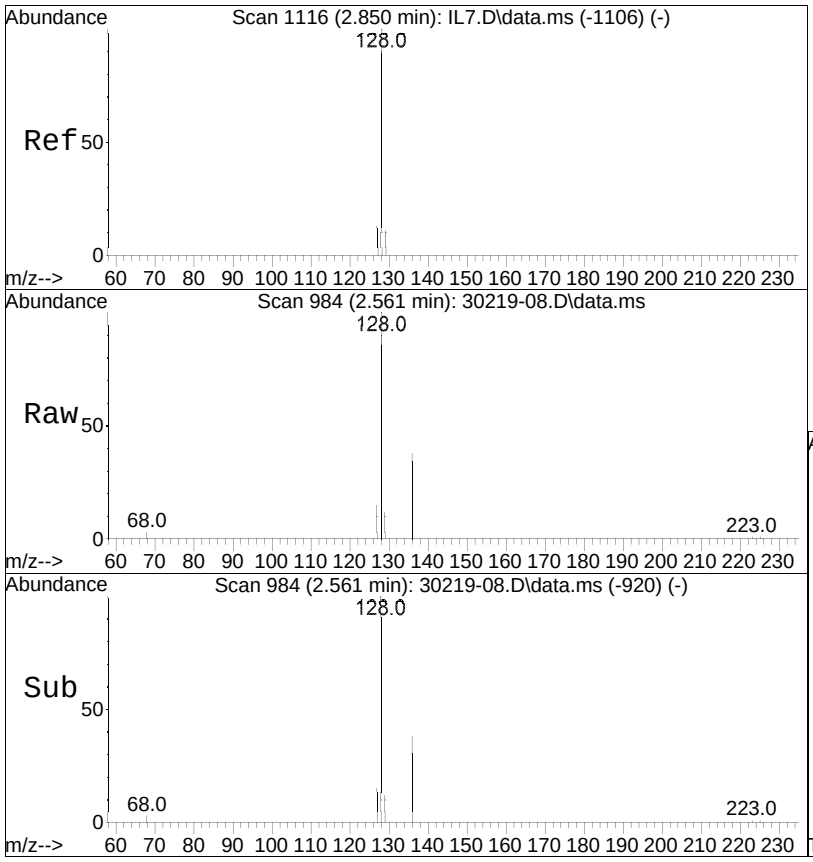
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 30219-08.D
Acq On : 04 Jun 2024 05:08 pm
Operator : sv119:jjw
Sample : L2430219-08,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jun 06 12:20:59 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0604.D•

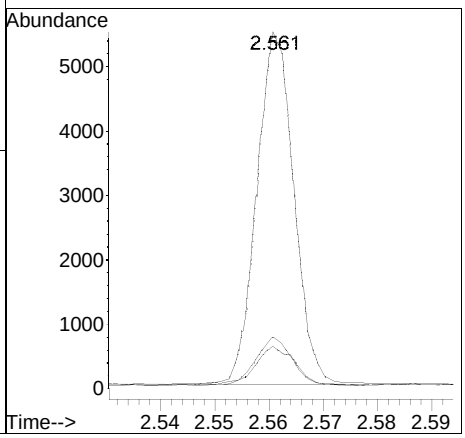


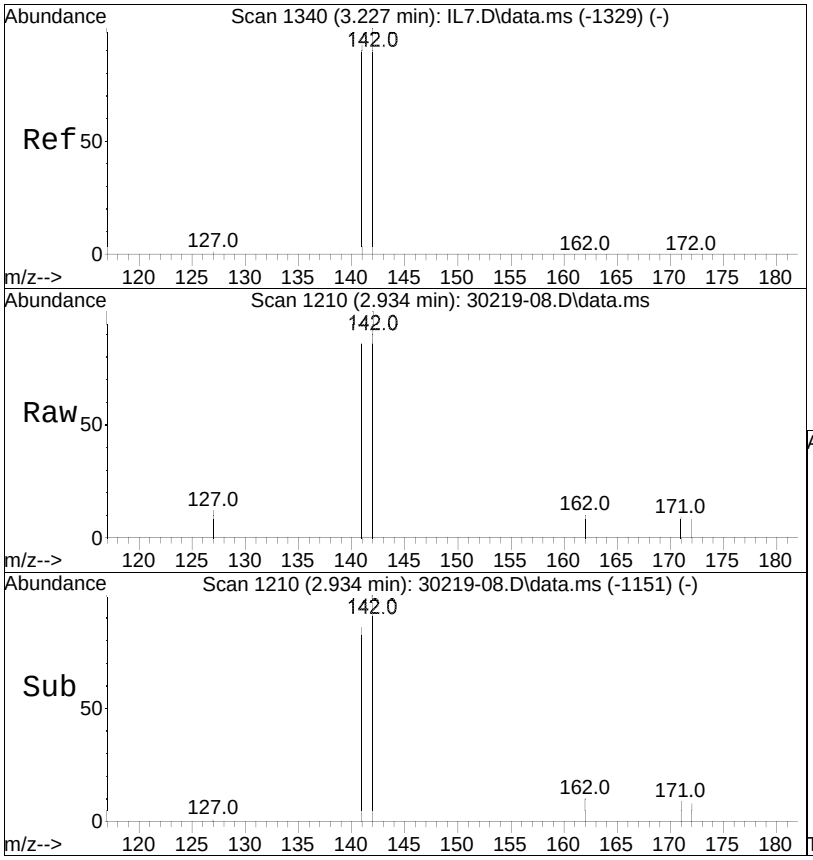


#9
Naphthalene
Concen: 68.80 ng/ml M6
RT: 2.561 min Scan# 984
Delta R.T. 0.002 min
Lab File: 30219-08.D
Acq: 04 Jun 2024 05:08 pm

Tgt Ion:128 Resp: 2566

Ion	Ratio	Lower	Upper
128	100		
129	12.2	8.8	13.2
127	13.6	10.6	15.8

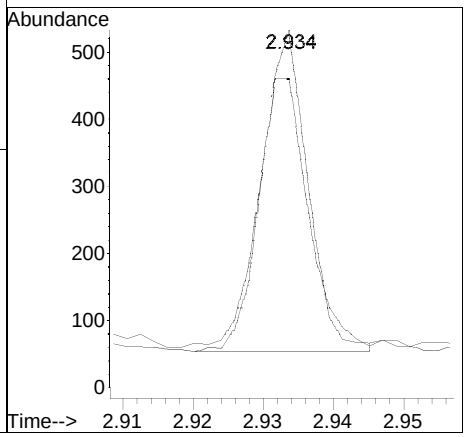


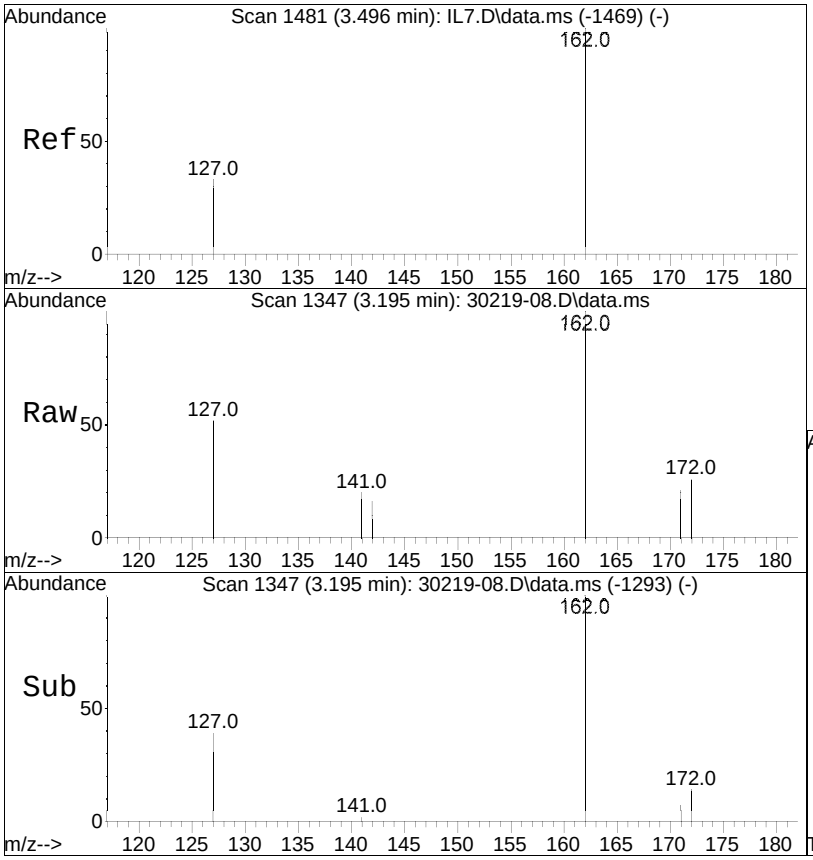


#11
2-Methylnaphthalene
Concen: 7.76 ng/ml M6
RT: 2.934 min Scan# 1210
Delta R.T. 0.004 min
Lab File: 30219-08.D
Acq: 04 Jun 2024 05:08 pm

Tgt Ion:142 Resp: 214

Ion	Ratio	Lower	Upper
142	100		
141	92.5	74.1	111.1

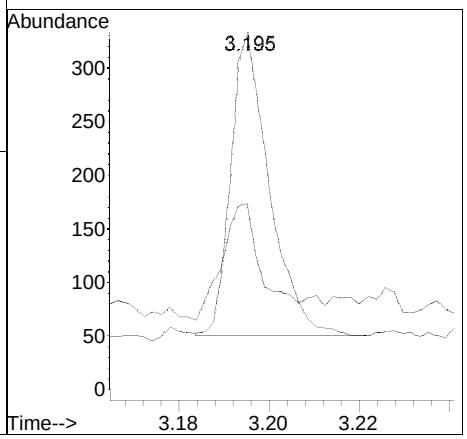


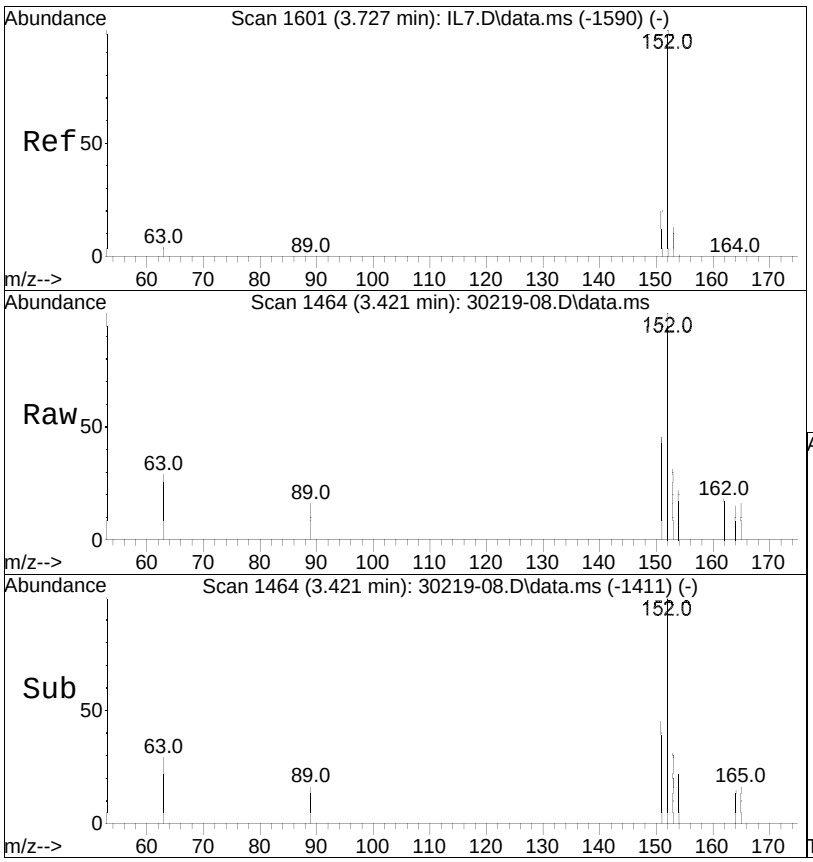


#14
2-Chloronaphthalene
Concen: 5.72 ng/ml
RT: 3.195 min Scan# 1347
Delta R.T. 0.002 min
Lab File: 30219-08.D
Acq: 04 Jun 2024 05:08 pm

Tgt Ion:162 Resp: 168

Ion	Ratio	Lower	Upper
162	100		
127	39.9	29.7	44.5

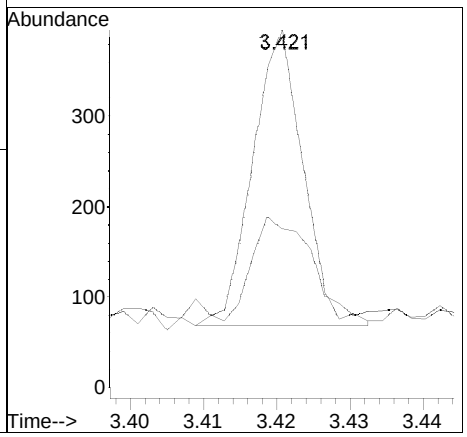


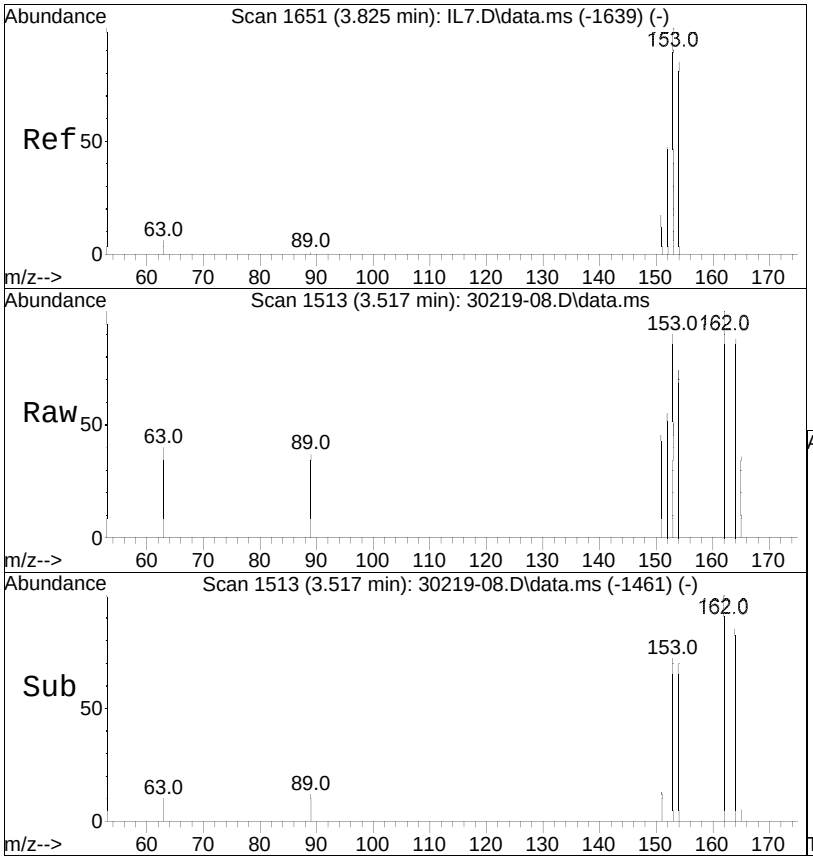


#16
Acenaphthylene
Concen: 3.55 ng/ml
RT: 3.421 min Scan# 1464
Delta R.T. 0.003 min
Lab File: 30219-08.D
Acq: 04 Jun 2024 05:08 pm

Tgt Ion:152 Resp: 155

Ion	Ratio	Lower	Upper
152	100		
151	41.3	16.0	24.0#

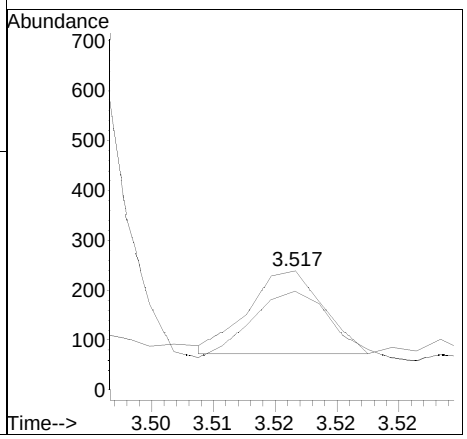


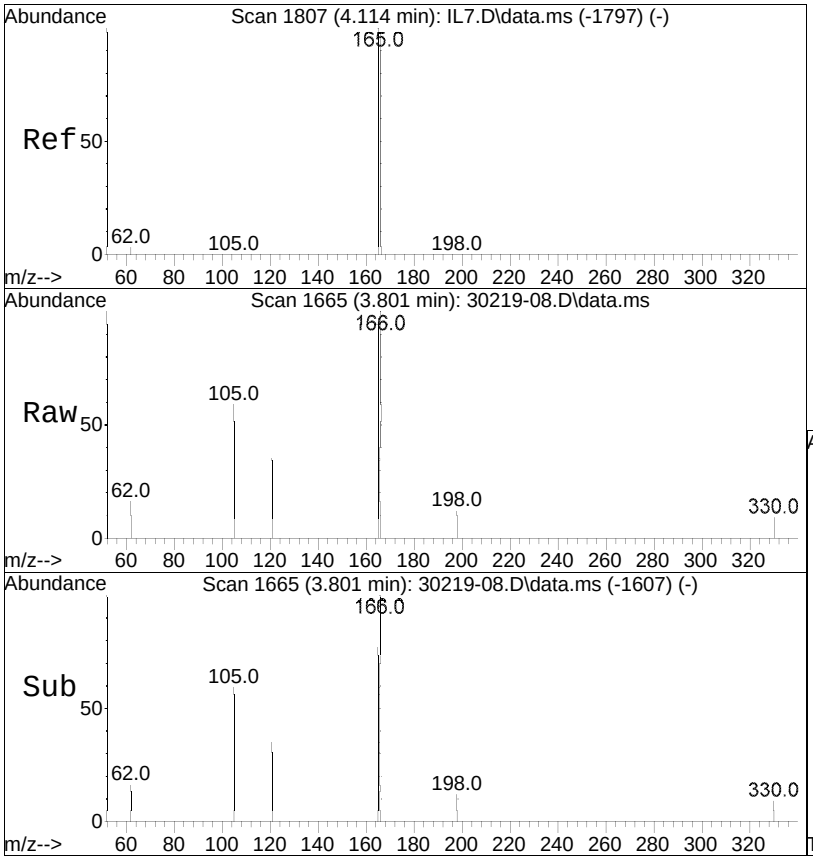


#18
Acenaphthene
Concen: 2.70 ng/ml M4
RT: 3.517 min Scan# 1513
Delta R.T. 0.002 min
Lab File: 30219-08.D
Acq: 04 Jun 2024 05:08 pm

Tgt Ion:153 Resp: 70

Ion	Ratio	Lower	Upper
153	100		
154	91.4	66.9	100.3

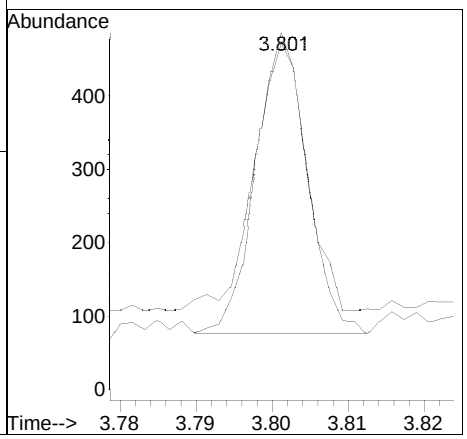


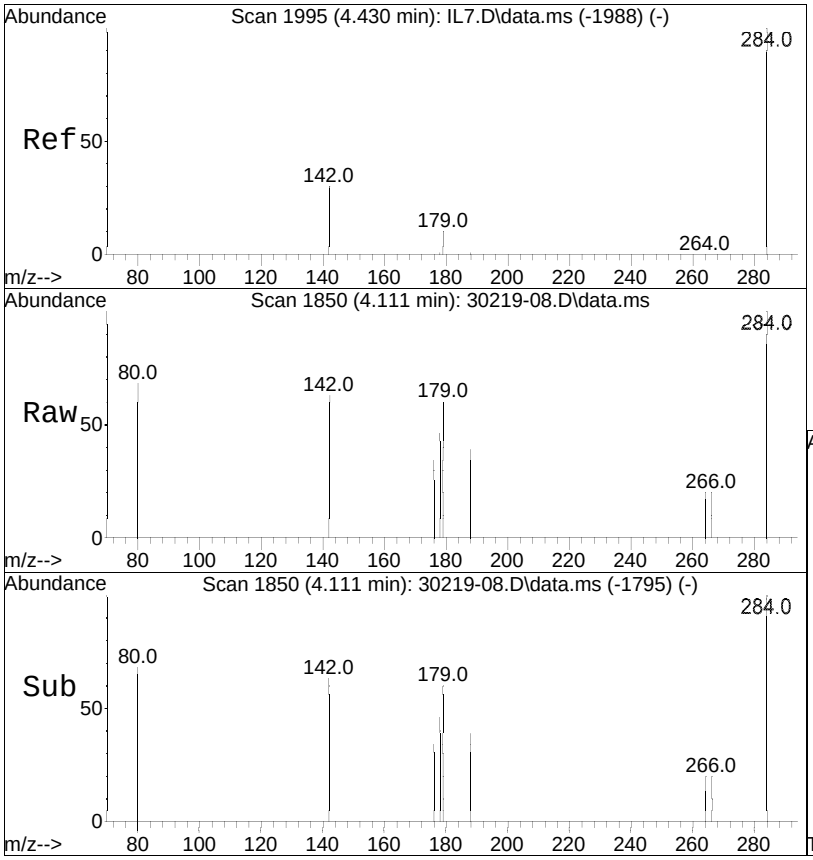


#20
Fluorene
Concen: 6.23 ng/ml M6
RT: 3.801 min Scan# 1665
Delta R.T. 0.001 min
Lab File: 30219-08.D
Acq: 04 Jun 2024 05:08 pm

Tgt Ion:166 Resp: 193

Ion	Ratio	Lower	Upper
166	100		
165	91.2	82.9	124.3

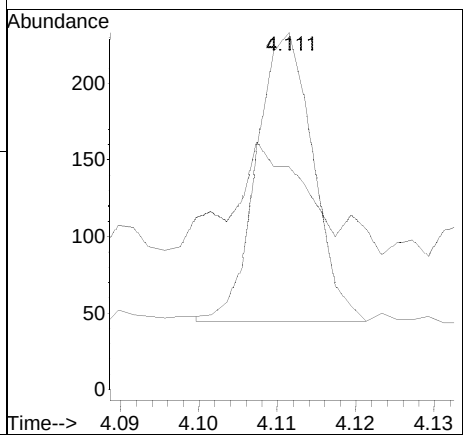


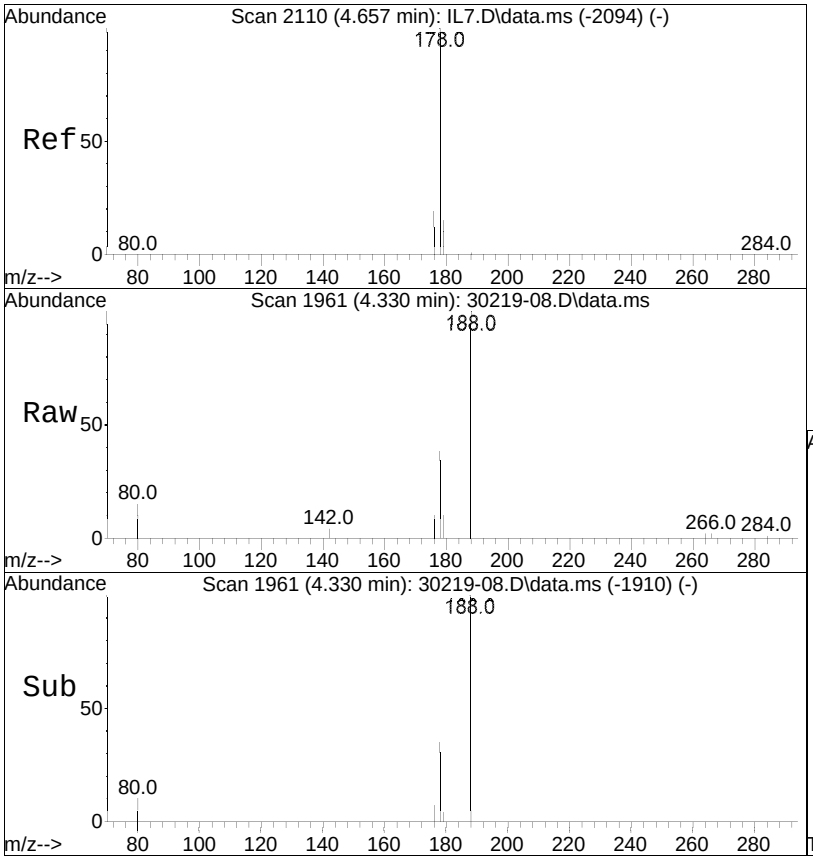


#24
Hexachlorobenzene
Concen: 8.17 ng/ml M4
RT: 4.111 min Scan# 1850
Delta R.T. 0.001 min
Lab File: 30219-08.D
Acq: 04 Jun 2024 05:08 pm

Tgt Ion:284 Resp: 93

Ion	Ratio	Lower	Upper
284	100		
142	39.8	26.9	40.3

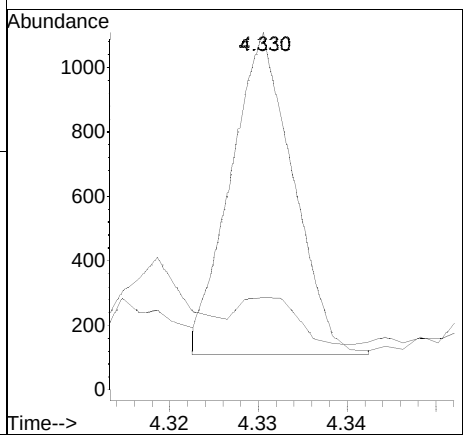


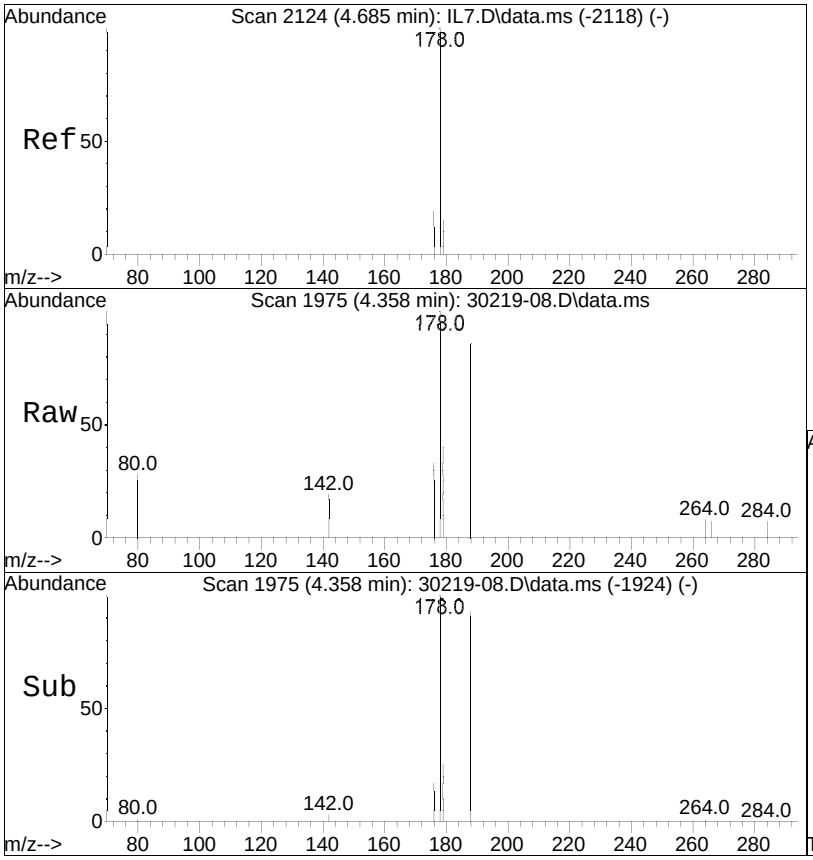


#26
Phenanthrene
Concen: 10.75 ng/ml M6
RT: 4.330 min Scan# 1961
Delta R.T. 0.001 min
Lab File: 30219-08.D
Acq: 04 Jun 2024 05:08 pm

Tgt Ion:178 Resp: 481

Ion	Ratio	Lower	Upper
178	100		
179	13.5	12.3	18.5

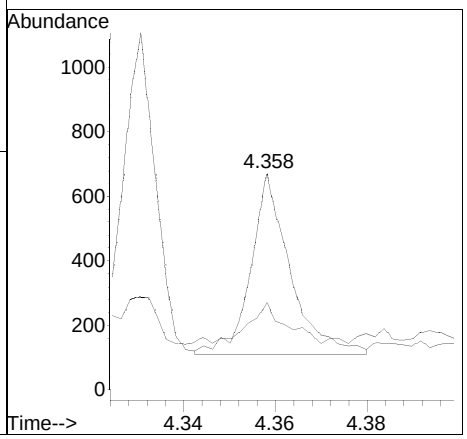


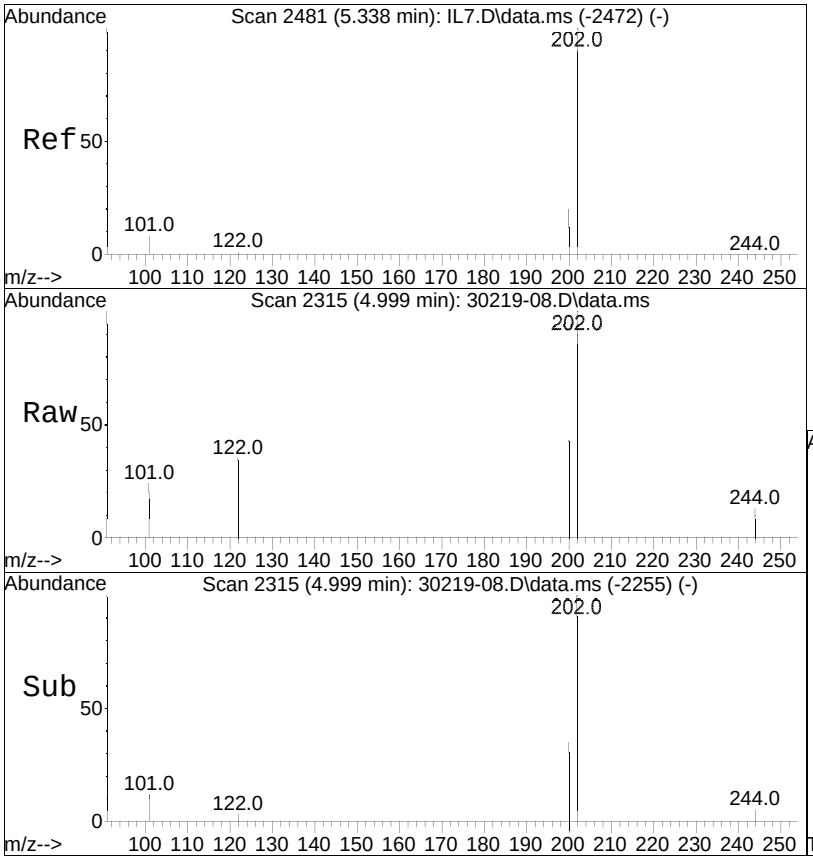


#27
Anthracene
Concen: 7.42 ng/ml M4
RT: 4.358 min Scan# 1975
Delta R.T. 0.001 min
Lab File: 30219-08.D
Acq: 04 Jun 2024 05:08 pm

Tgt Ion:178 Resp: 329

Ion	Ratio	Lower	Upper
178	100		
179	21.0	12.2	18.4#

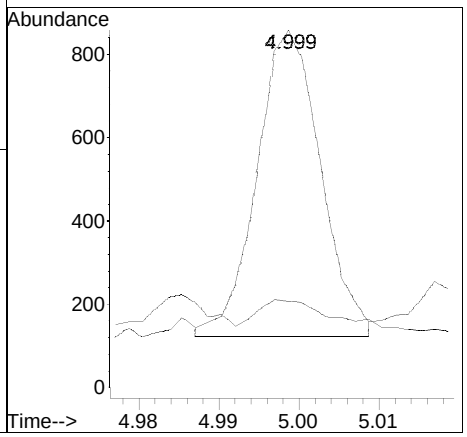


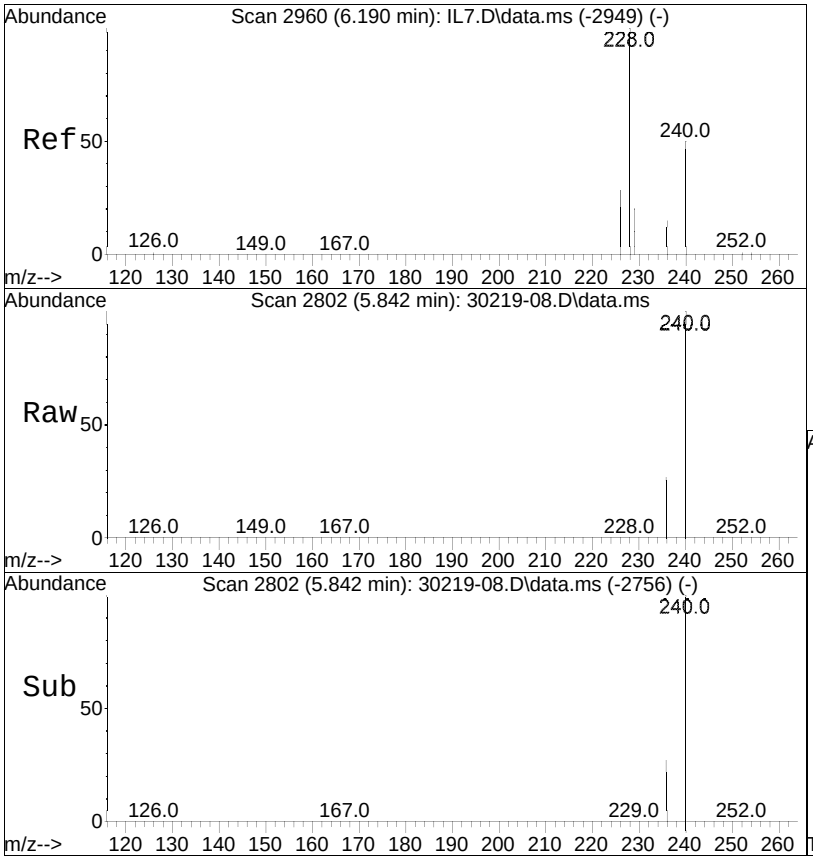


#28
Fluoranthene
Concen: 6.89 ng/ml M6
RT: 4.999 min Scan# 2315
Delta R.T. -0.001 min
Lab File: 30219-08.D
Acq: 04 Jun 2024 05:08 pm

Tgt Ion:202 Resp: 406

Ion	Ratio	Lower	Upper
202	100		
101	9.6	8.3	12.5

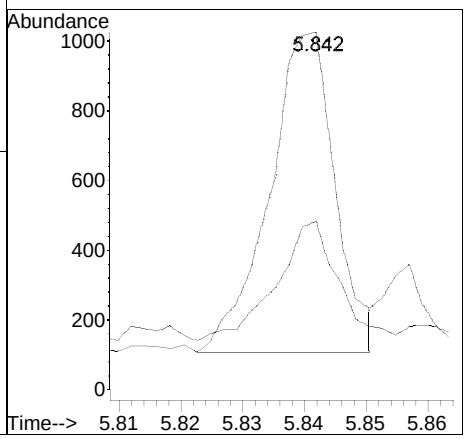


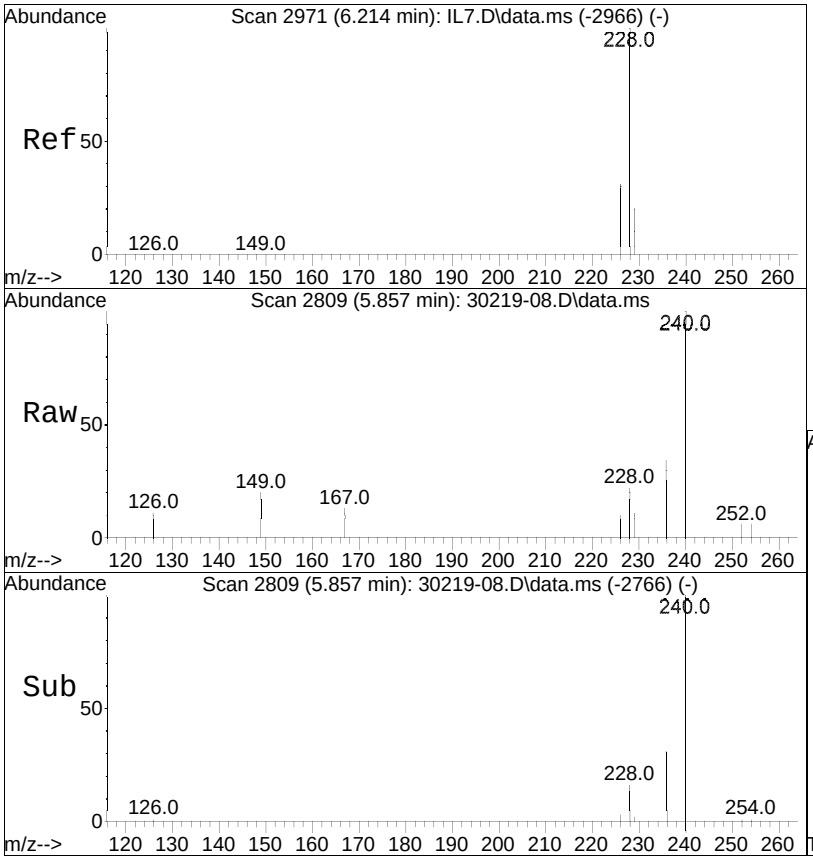


#32
Benzo[a]anthracene
Concen: 2.06 ng/ml M2
RT: 5.842 min Scan# 2802
Delta R.T. -0.002 min
Lab File: 30219-08.D
Acq: 04 Jun 2024 05:08 pm

Tgt Ion:228 Resp: 675

Ion	Ratio	Lower	Upper
228	100		
229	36.6	15.6	23.4#

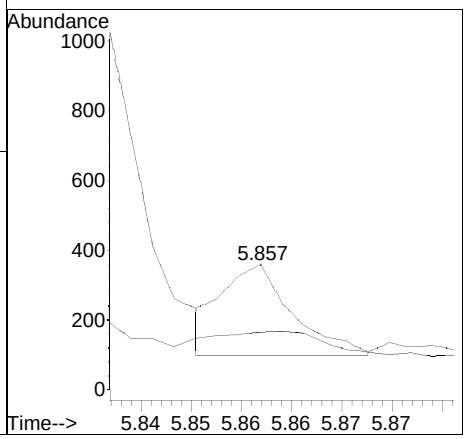


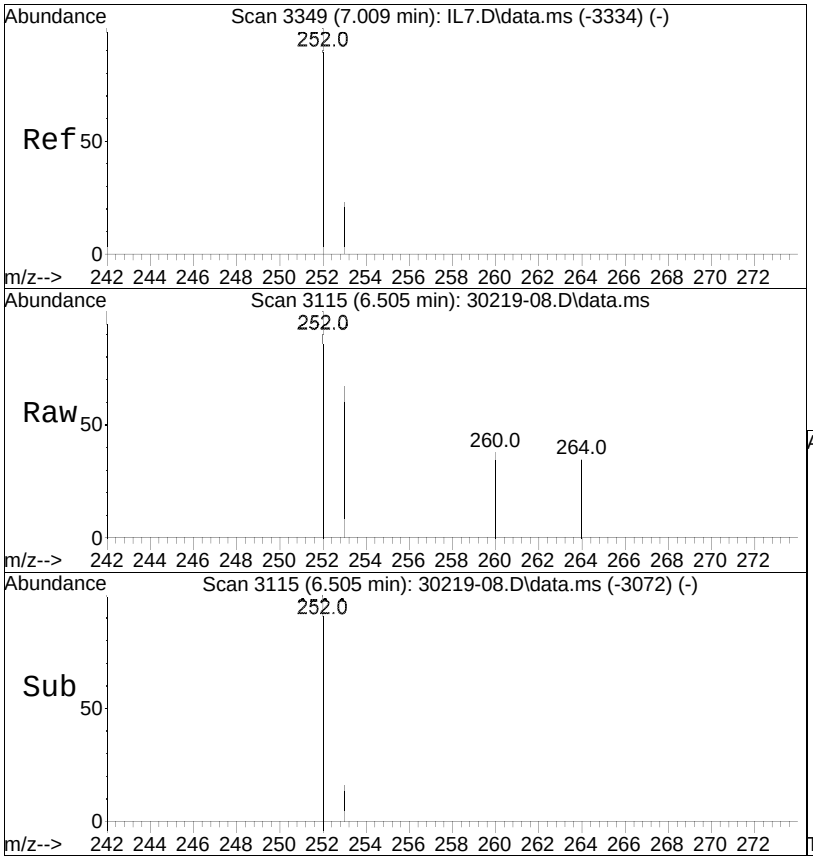


#34
Chrysene
Concen: 2.38 ng/ml
RT: 5.857 min Scan# 2809
Delta R.T. -0.008 min
Lab File: 30219-08.D
Acq: 04 Jun 2024 05:08 pm

Tgt Ion:228 Resp: 125

Ion	Ratio	Lower	Upper
228	100		
226	46.4	24.5	36.7#

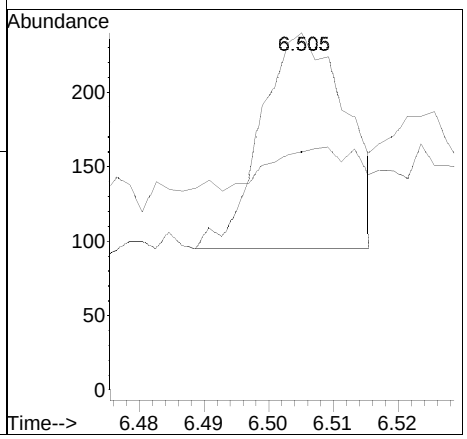


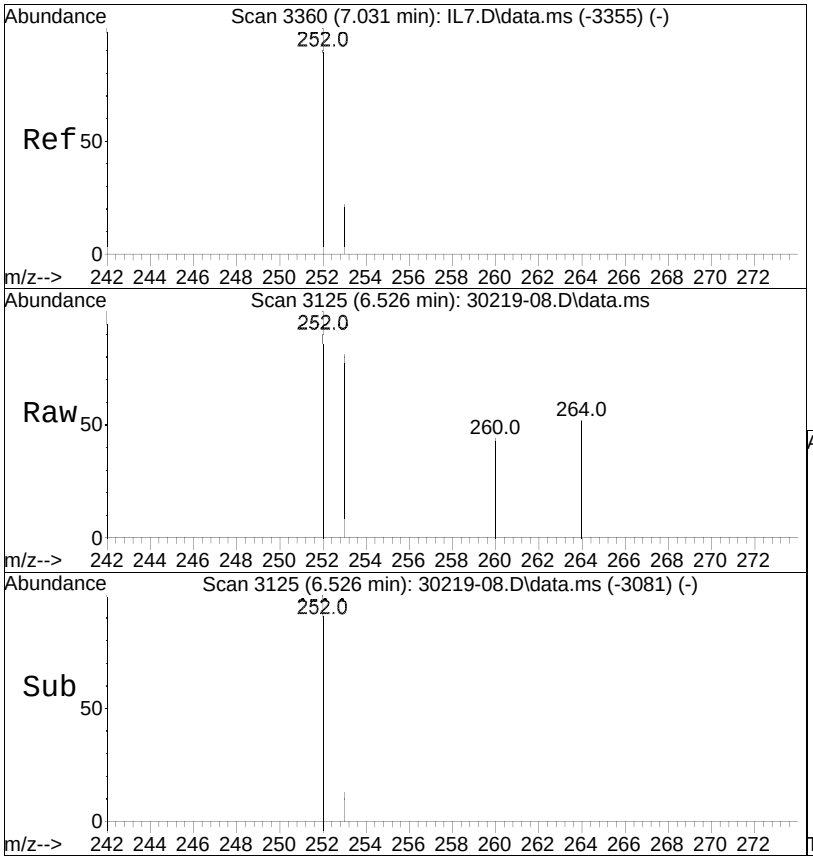


#37
Benzo[b]fluoranthene
Concen: 2.25 ng/ml
RT: 6.505 min Scan# 3115
Delta R.T. -0.012 min
Lab File: 30219-08.D
Acq: 04 Jun 2024 05:08 pm

Tgt Ion:252 Resp: 133

Ion	Ratio	Lower	Upper
252	100		
253	27.8	17.3	25.9#

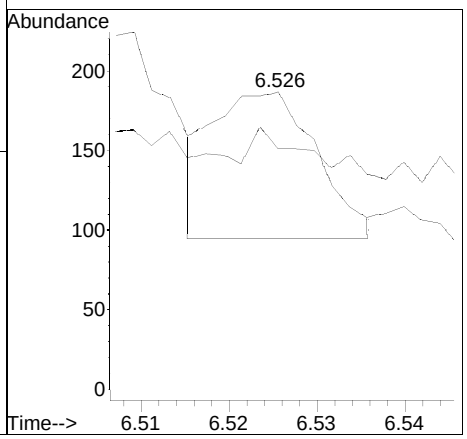




#38
Benzo[k]fluoranthene
Concen: 1.35 ng/ml M1
RT: 6.526 min Scan# 3125
Delta R.T. -0.010 min
Lab File: 30219-08.D
Acq: 04 Jun 2024 05:08 pm

Tgt Ion:252 Resp: 76

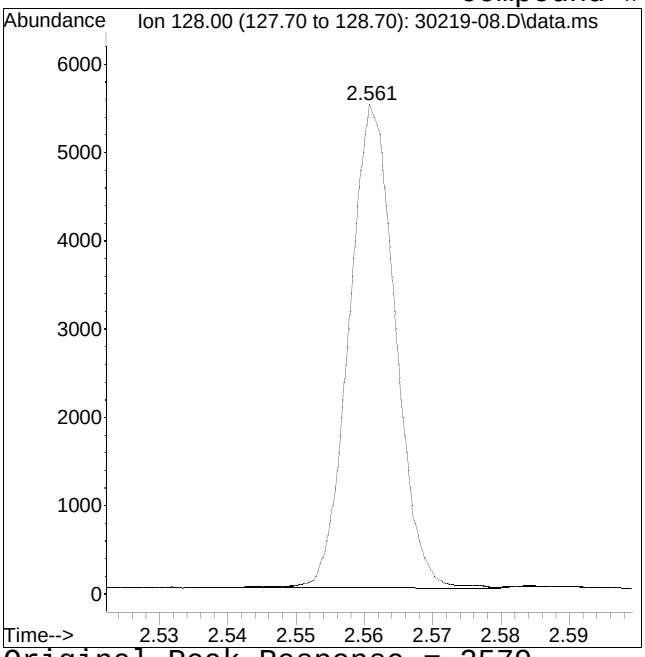
Ion	Ratio	Lower	Upper
252	100		
253	21.1	17.4	26.2



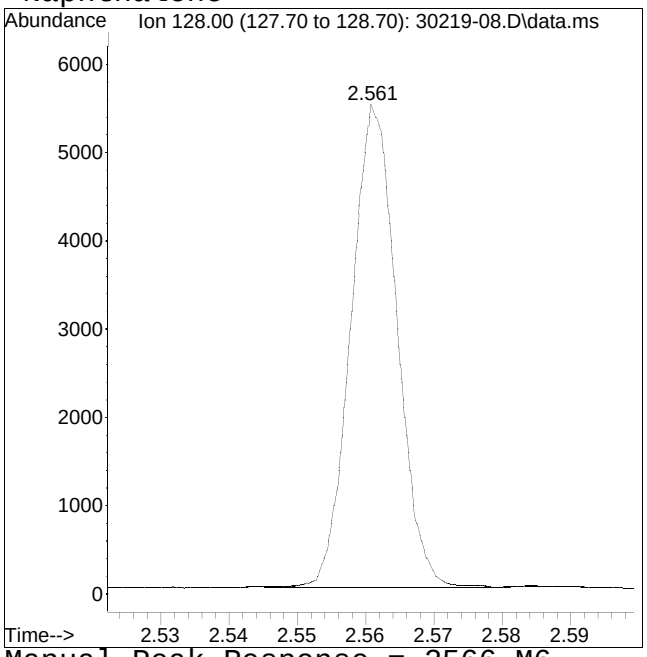
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-08.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 5:08 pm Instrument : SV119
Sample : L2430219-08,32,,ah Quant Date : 6/4/2024 5:23 pm

Compound #9: Naphthalene



Original Peak Response = 2579



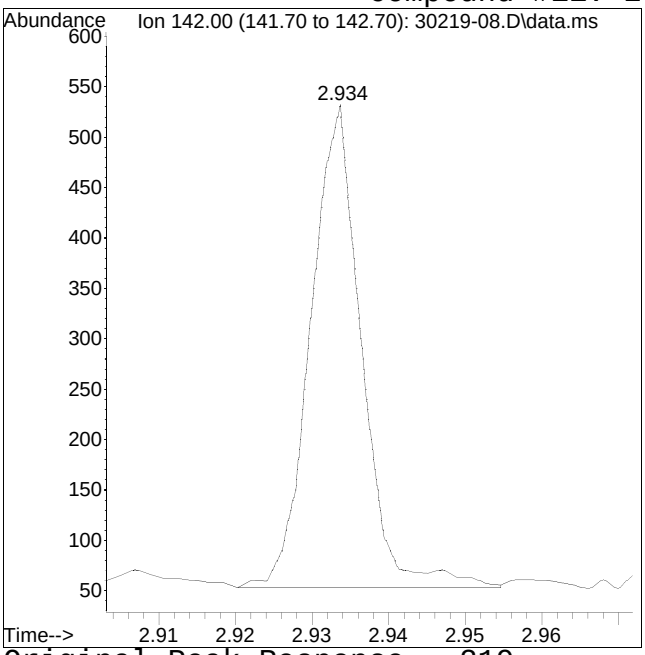
Manual Peak Response = 2566 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

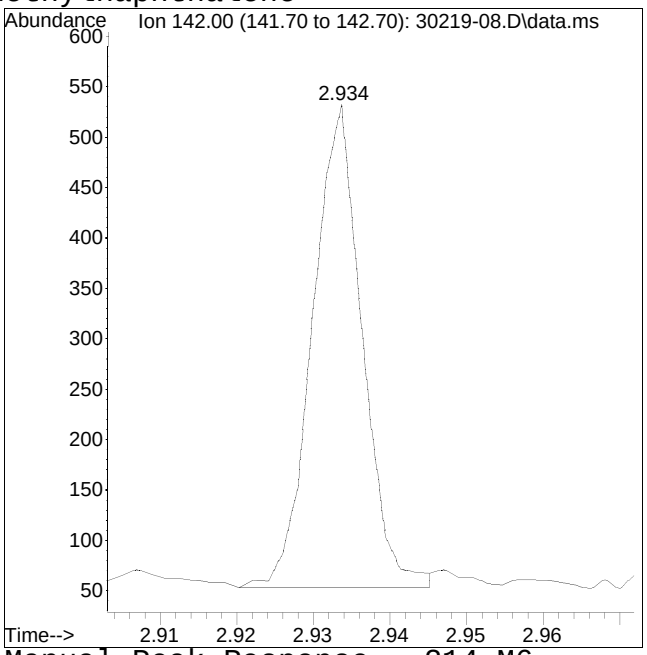
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-08.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 5:08 pm Instrument : SV119
Sample : L2430219-08,32,,ah Quant Date : 6/4/2024 5:23 pm

Compound #11: 2-Methylnaphthalene



Original Peak Response = 219



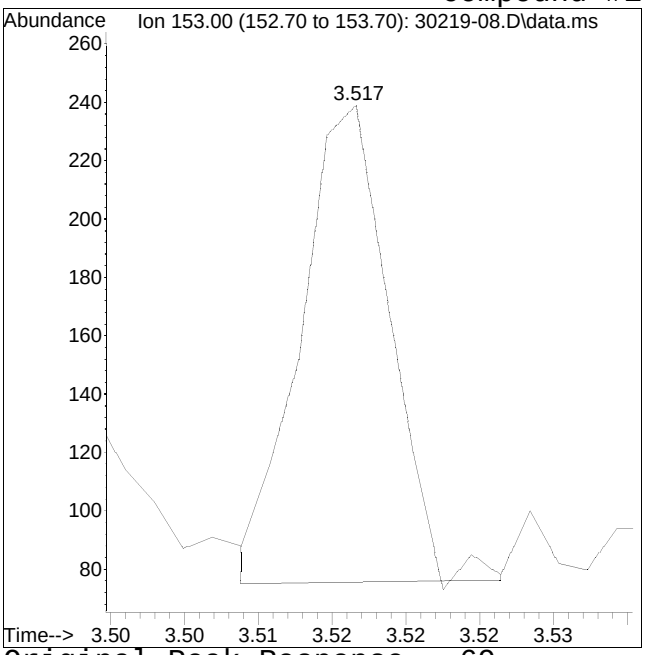
Manual Peak Response = 214 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

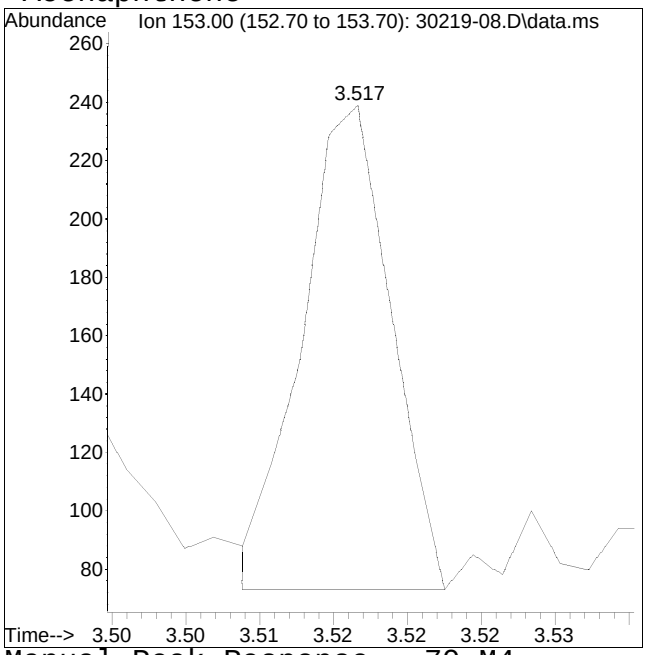
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-08.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 5:08 pm Instrument : SV119
Sample : L2430219-08,32,,ah Quant Date : 6/4/2024 5:23 pm

Compound #18: Acenaphthene



Original Peak Response = 69



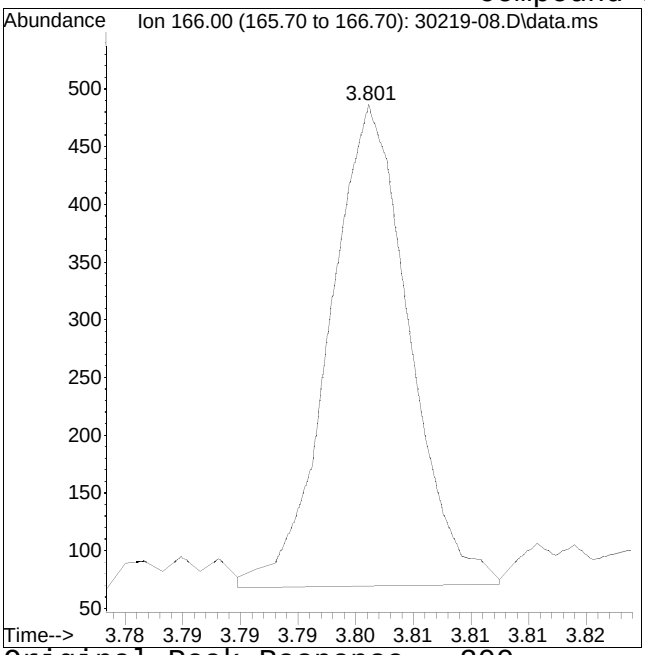
Manual Peak Response = 70 M4

M4 = Poor automated baseline construction.

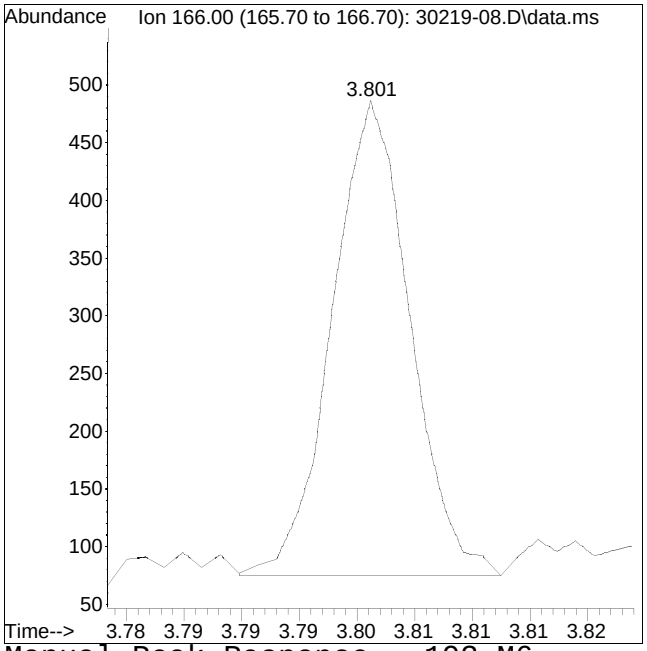
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-08.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 5:08 pm Instrument : SV119
Sample : L2430219-08,32,,ah Quant Date : 6/4/2024 5:23 pm

Compound #20: Fluorene



Original Peak Response = 200



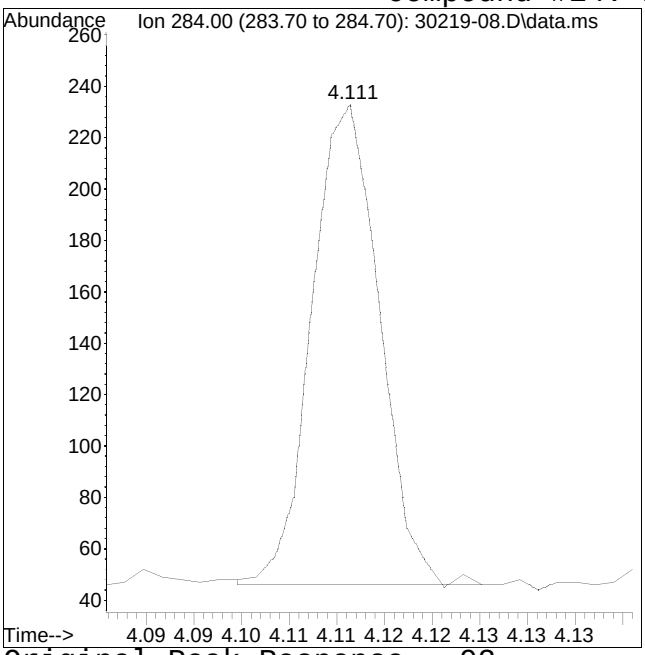
Manual Peak Response = 193 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

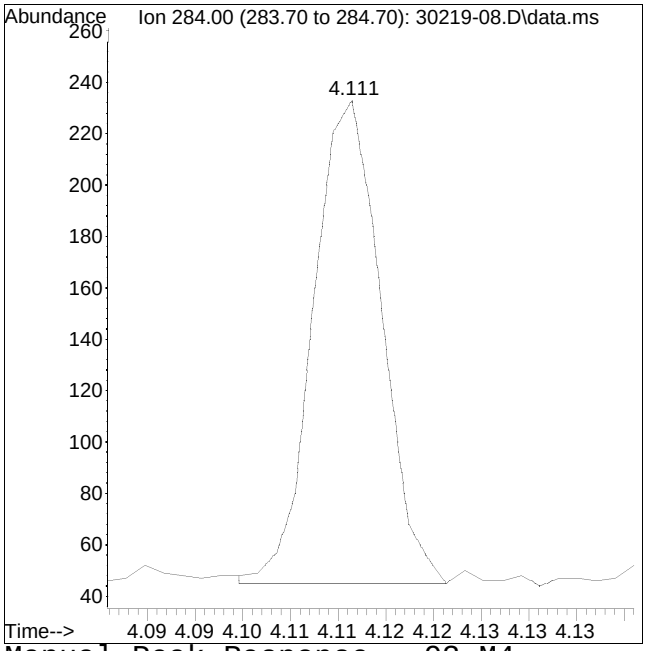
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-08.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 5:08 pm Instrument : SV119
Sample : L2430219-08,32,,ah Quant Date : 6/4/2024 5:23 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 92



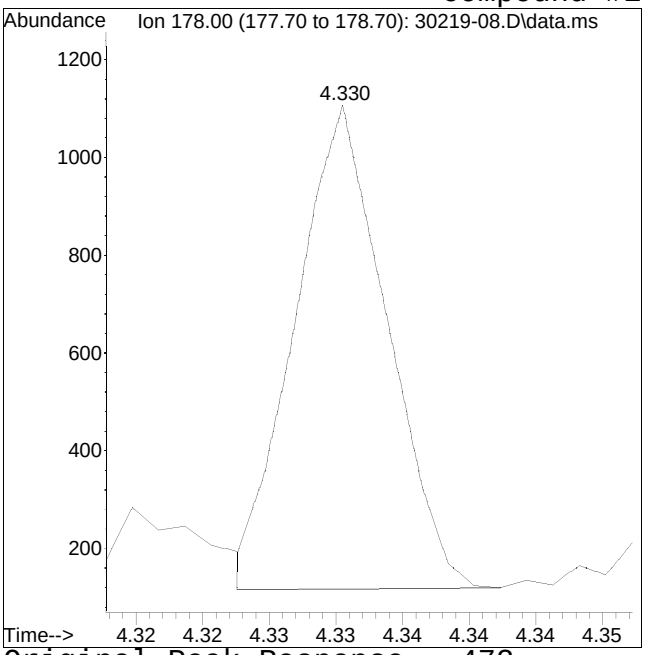
Manual Peak Response = 93 M4

M4 = Poor automated baseline construction.

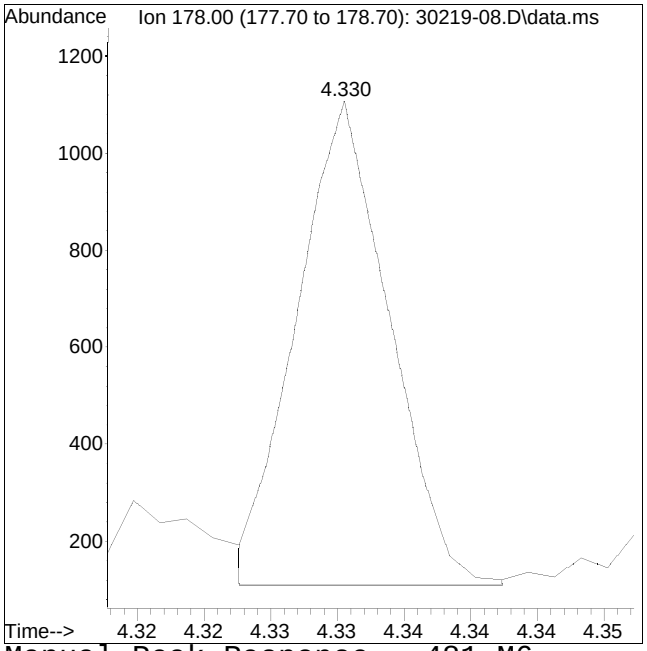
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-08.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 5:08 pm Instrument : SV119
Sample : L2430219-08,32,,ah Quant Date : 6/4/2024 5:23 pm

Compound #26: Phenanthrene



Original Peak Response = 472



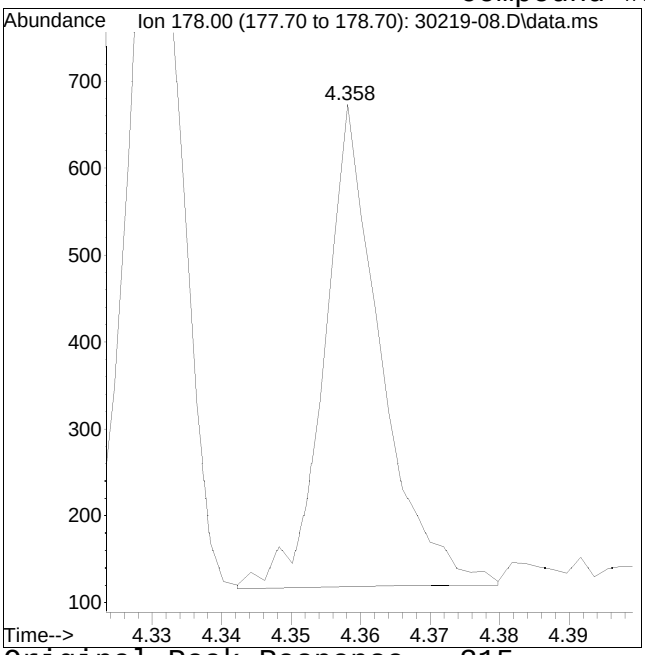
Manual Peak Response = 481 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

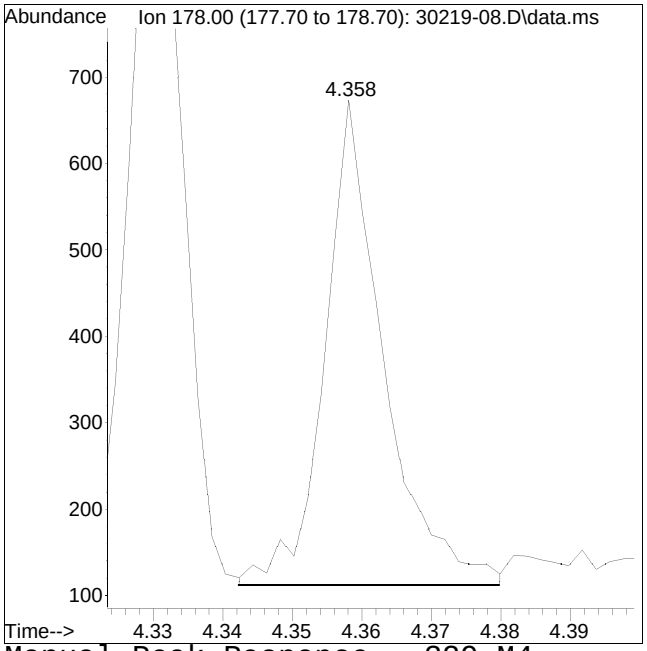
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-08.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 5:08 pm Instrument : SV119
Sample : L2430219-08,32,,ah Quant Date : 6/4/2024 5:23 pm

Compound #27: Anthracene



Original Peak Response = 315



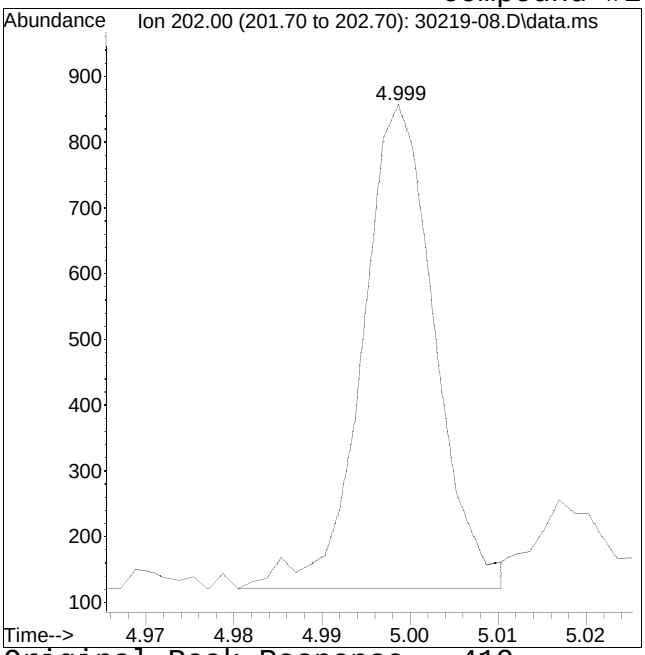
Manual Peak Response = 329 M4

M4 = Poor automated baseline construction.

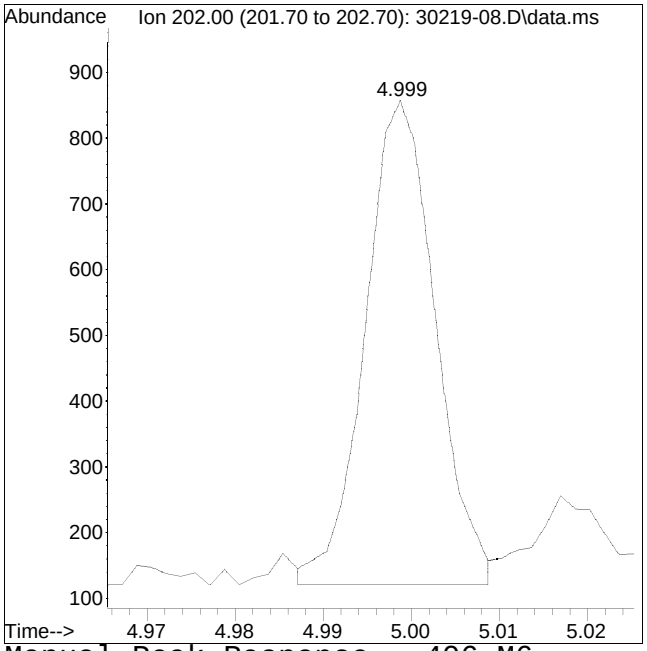
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-08.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 5:08 pm Instrument : SV119
Sample : L2430219-08,32,,ah Quant Date : 6/4/2024 5:23 pm

Compound #28: Fluoranthene



Original Peak Response = 419



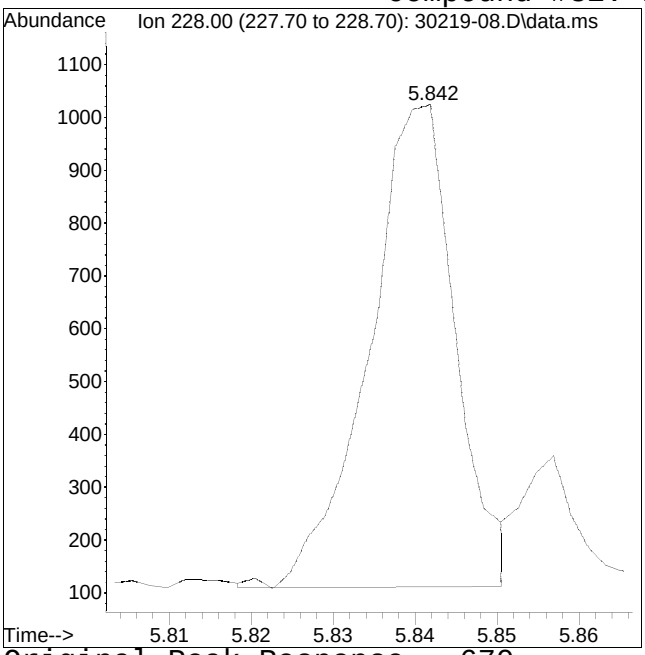
Manual Peak Response = 406 M6

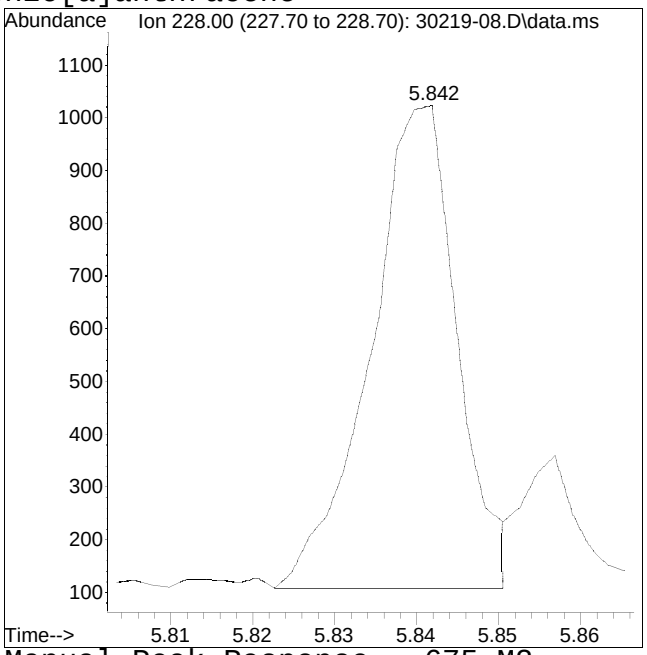
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-08.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 5:08 pm Instrument : SV119
Sample : L2430219-08,32,,ah Quant Date : 6/4/2024 5:23 pm

Compound #32: Benzo[a]anthracene



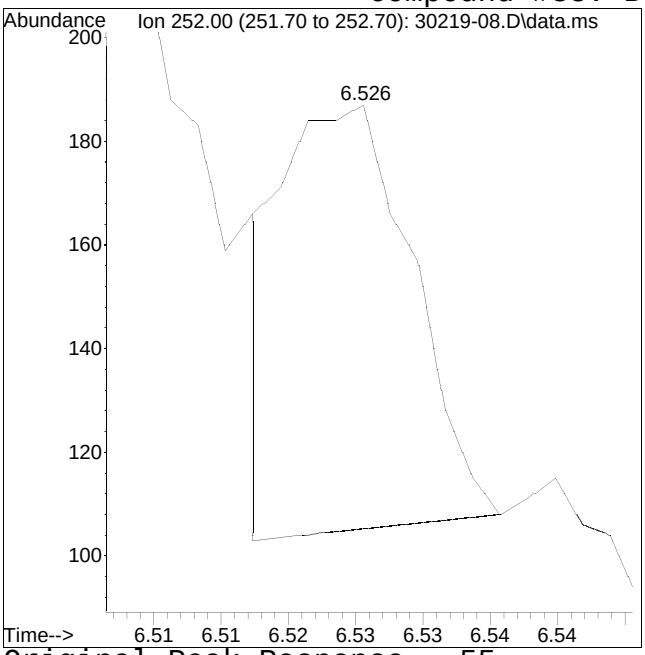


Original Peak Response = 670 Manual Peak Response = 675 M2
M2 = Peak not found by automatic integration algorithm.

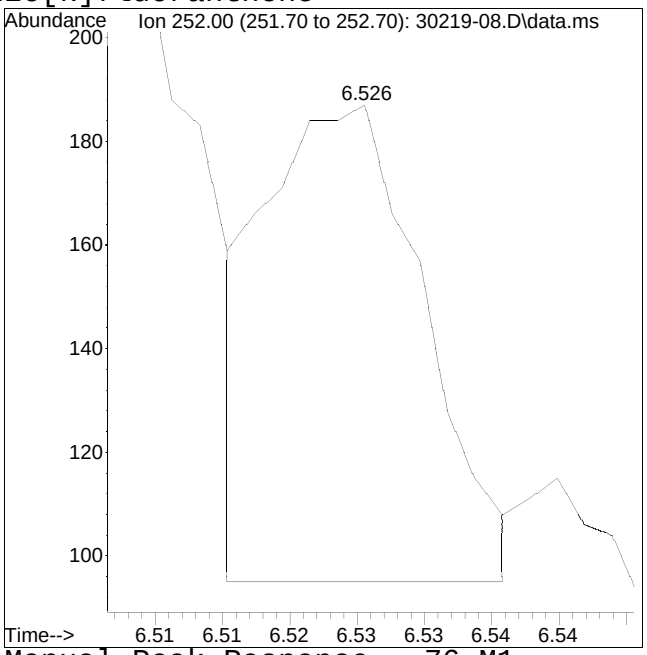
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-08.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 5:08 pm Instrument : SV119
Sample : L2430219-08,32,,ah Quant Date : 6/4/2024 5:23 pm

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 55



Manual Peak Response = 76 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 30219-09.D
Acq On : 04 Jun 2024 05:25 pm
Operator : sv119:jjw
Sample : L2430219-09,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Jun 06 12:25:36 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240604LVI\ccv0604.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.907	152	44935	4000.000	ng/ml	0.00
Standard Area 1 = 56492			Recovery = 79.54%			
8) Naphthalene-d8	2.550	136	150444	4000.000	ng/ml	0.00
Standard Area 1 = 186100			Recovery = 80.84%			
17) Acenaphthene-d10	3.500	164	80225	4000.000	ng/ml	0.00
Standard Area 1 = 98337			Recovery = 81.58%			
22) Phenanthrene-d10	4.318	188	169551	4000.000	ng/ml	0.00
Standard Area 1 = 215749			Recovery = 78.59%			
31) Chrysene-d12	5.841	240	152314	4000.000	ng/ml	0.00
Standard Area 1 = 188074			Recovery = 80.99%			
36) Perylene-d12	6.786	264	162809	4000.000	ng/ml	-0.01
Standard Area 1 = 198758			Recovery = 81.91%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.341	112	42593	3465.530	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 69.31%			
3) Phenol-d6	1.742	99	43677	2964.669	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 59.29%			
7) Nitrobenzene-d5	2.185	82	26405	2362.818	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 94.51%			
13) 2-Fluorobiphenyl	3.137	172	62709	1866.341	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 74.65%			
21) 2,4,6-Tribromophenol	3.937	330	26979	6099.799	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 122.00%#			
30) 4-Terphenyl-d14	5.230	244	68602	1650.486	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 66.02%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	2.562	128	1054M1	29.341	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.	d	
11) 2-Methylnaphthalene	2.933	142	102M6	3.840	ng/ml	
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	3.420	152	162M1	3.853	ng/ml	
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	3.802	166	112M6	3.778	ng/ml	
24) Hexachlorobenzene	0.000		0	N.D.	d	
25) Pentachlorophenol	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 30219-09.D
Acq On : 04 Jun 2024 05:25 pm
Operator : sv119:jjw
Sample : L2430219-09,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Jun 06 12:25:36 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240604LVI\ccv0604.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.330	178	238M1	5.526	ng/ml	
27) Anthracene	4.359	178	135M4	3.161	ng/ml	
28) Fluoranthene	5.000	202	159M7	2.801	ng/ml	
29) Pyrene	5.124	202	134M6	2.298	ng/ml	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

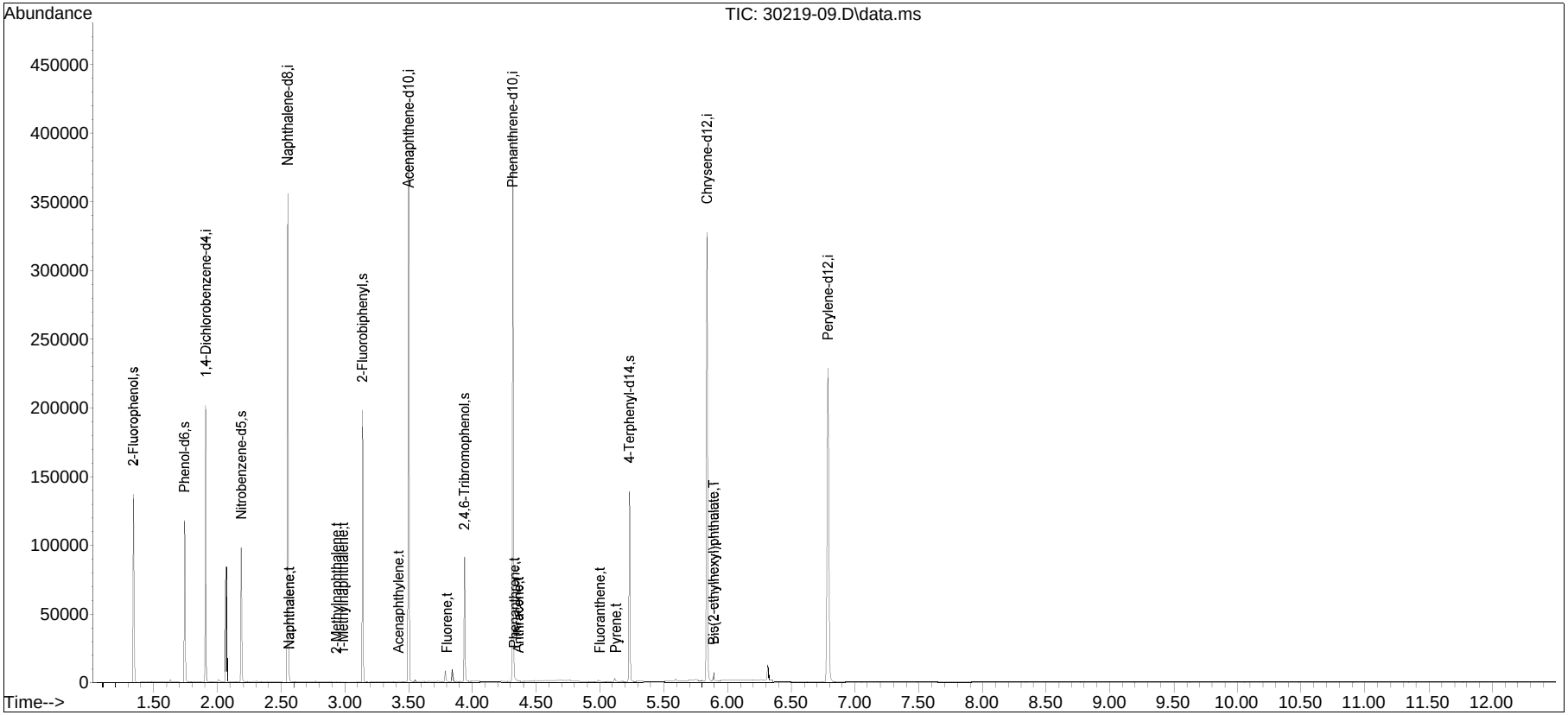
(#) = qualifier out of range (m) = manual integration (+) = signals summed

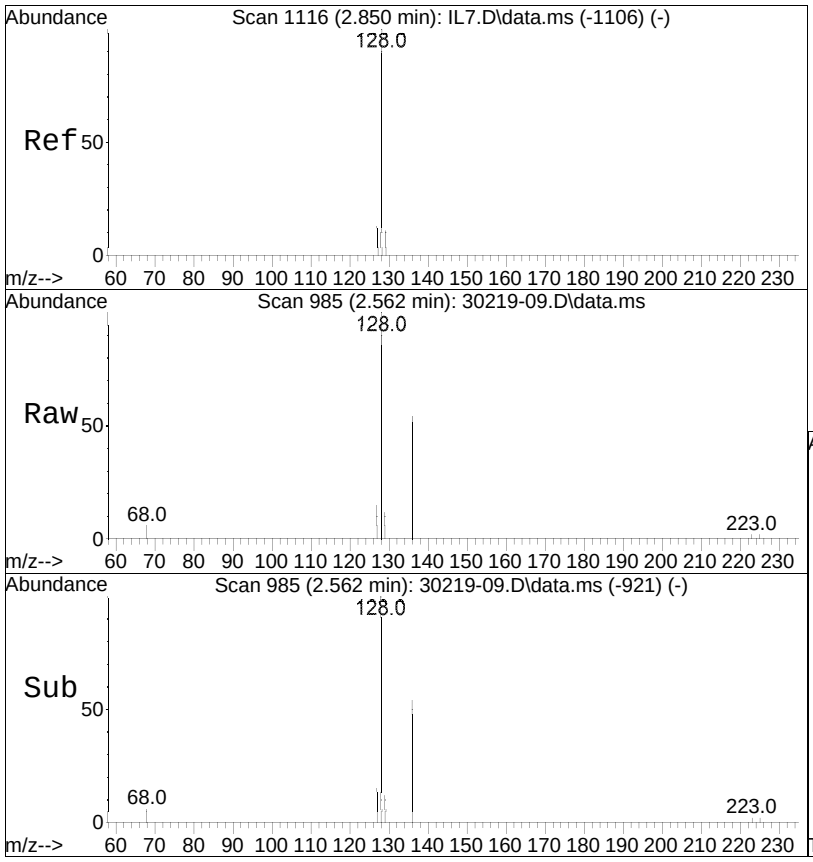
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 30219-09.D
Acq On : 04 Jun 2024 05:25 pm
Operator : sv119:jjw
Sample : L2430219-09,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Jun 06 12:25:36 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0604.D•

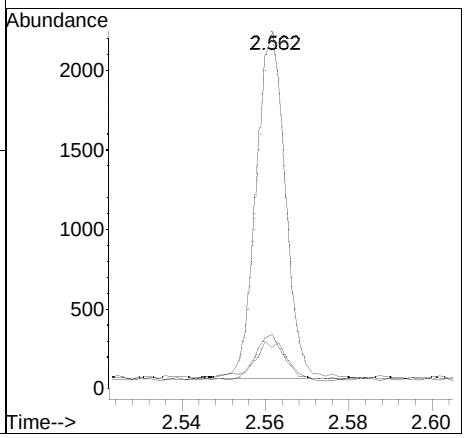


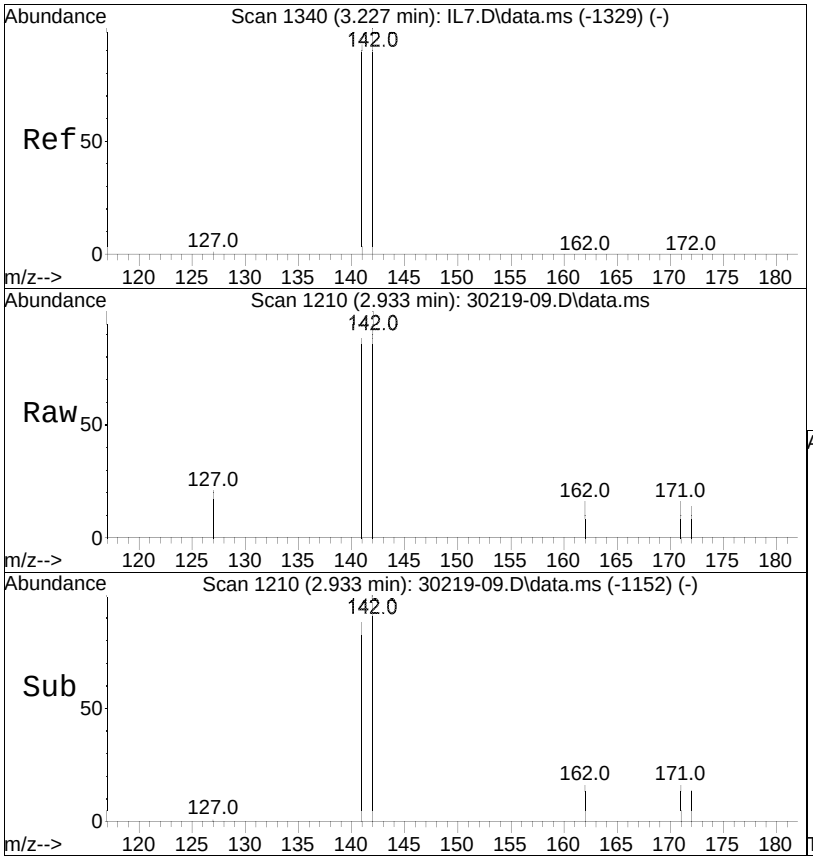


#9
Naphthalene
Concen: 29.34 ng/ml M1
RT: 2.562 min Scan# 985
Delta R.T. 0.003 min
Lab File: 30219-09.D
Acq: 04 Jun 2024 05:25 pm

Tgt Ion:128 Resp: 1054

Ion	Ratio	Lower	Upper
128	100		
129	13.2	8.8	13.2
127	13.1	10.6	15.8

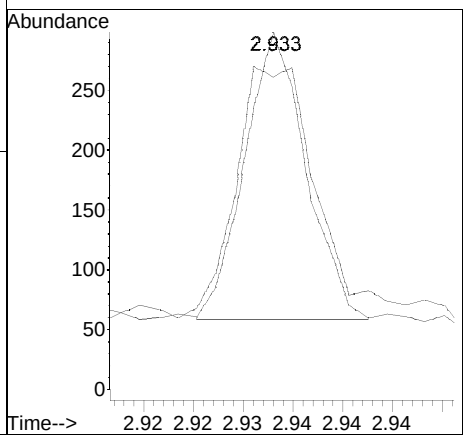


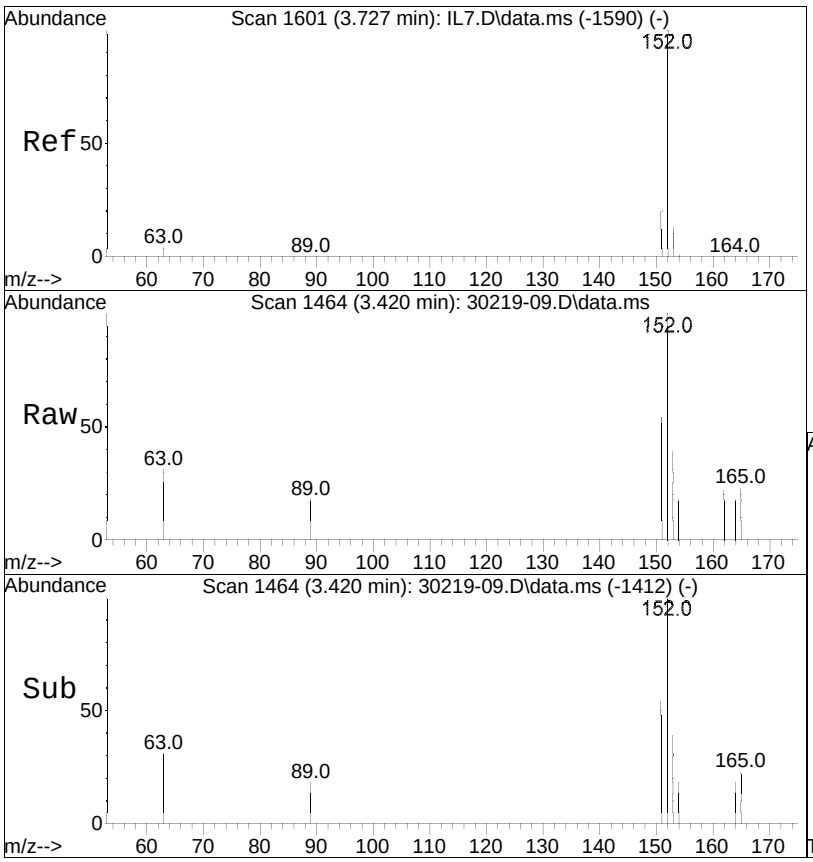


#11
2-Methylnaphthalene
Concen: 3.84 ng/ml M6
RT: 2.933 min Scan# 1210
Delta R.T. 0.004 min
Lab File: 30219-09.D
Acq: 04 Jun 2024 05:25 pm

Tgt Ion:142 Resp: 102

Ion	Ratio	Lower	Upper
142	100		
141	109.8	74.1	111.1

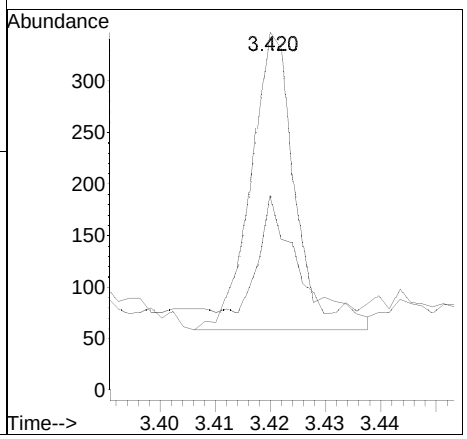


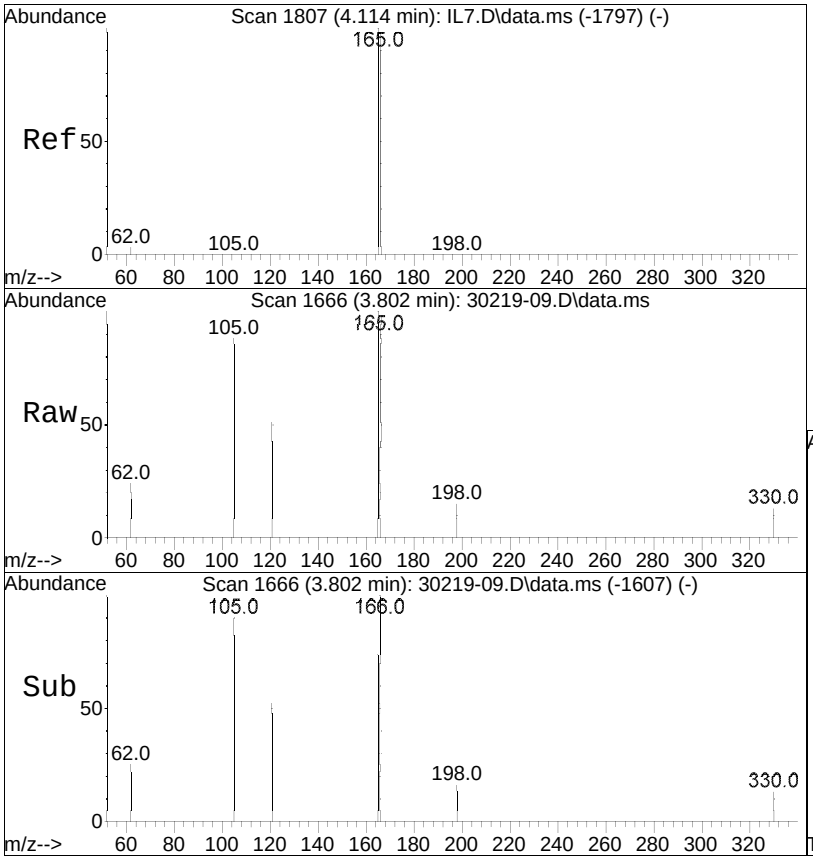


#16
Acenaphthylene
Concen: 3.85 ng/ml M1
RT: 3.420 min Scan# 1464
Delta R.T. 0.002 min
Lab File: 30219-09.D
Acq: 04 Jun 2024 05:25 pm

Tgt Ion:152 Resp: 162

Ion	Ratio	Lower	Upper
152	100		
151	27.2	16.0	24.0#

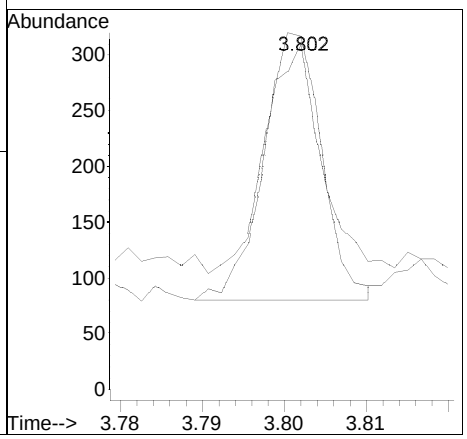


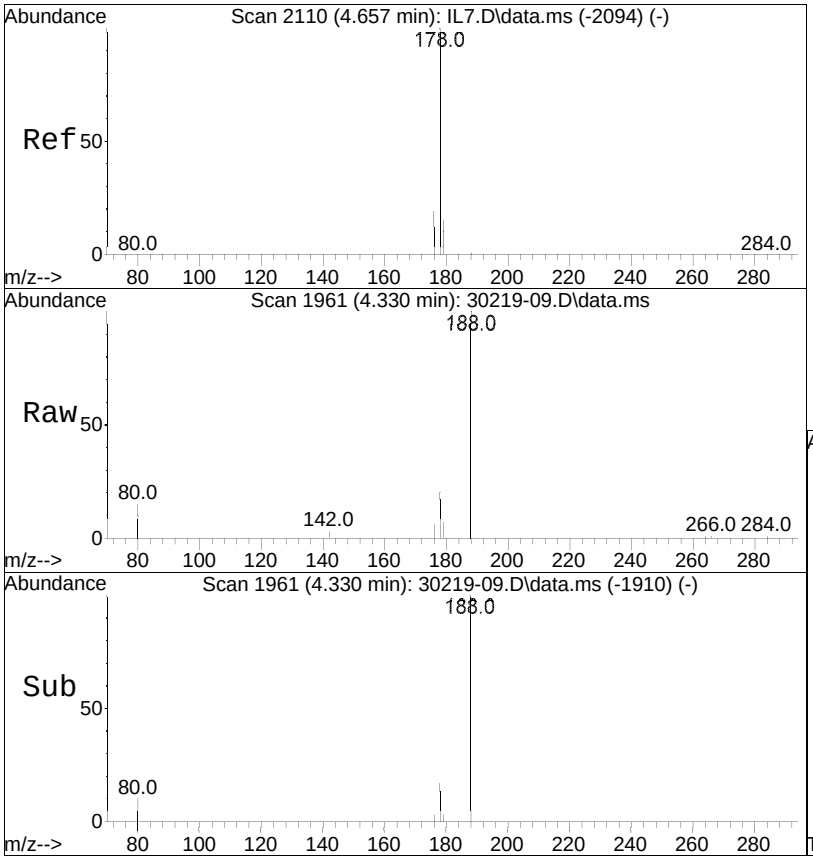


#20
Fluorene
Concen: 3.78 ng/ml M6
RT: 3.802 min Scan# 1666
Delta R.T. 0.001 min
Lab File: 30219-09.D
Acq: 04 Jun 2024 05:25 pm

Tgt Ion:166 Resp: 112

Ion	Ratio	Lower	Upper
166	100		
165	93.8	82.9	124.3

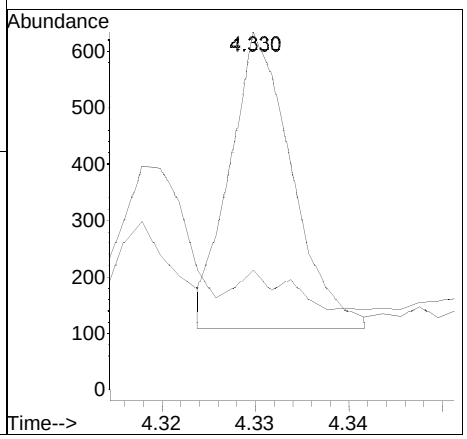


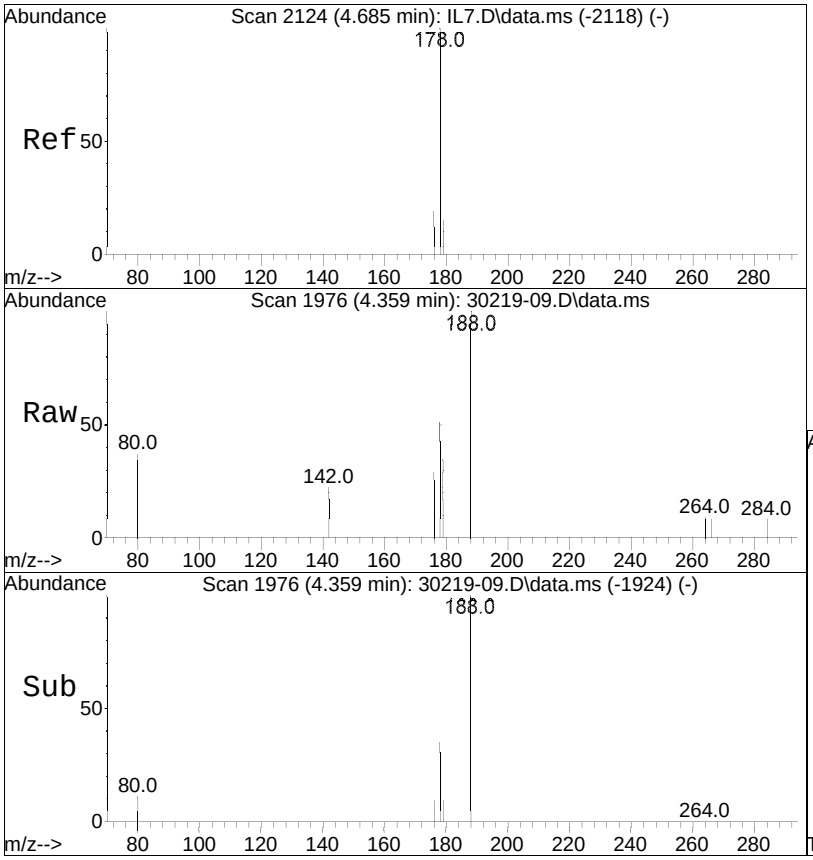


#26
Phenanthrene
Concen: 5.53 ng/ml M1
RT: 4.330 min Scan# 1961
Delta R.T. -0.000 min
Lab File: 30219-09.D
Acq: 04 Jun 2024 05:25 pm

Tgt Ion:178 Resp: 238

Ion	Ratio	Lower	Upper
178	100		
179	12.6	12.3	18.5

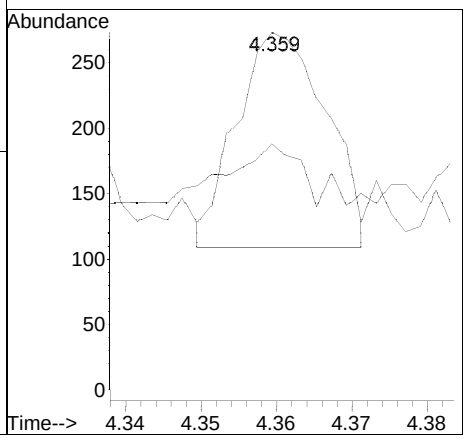


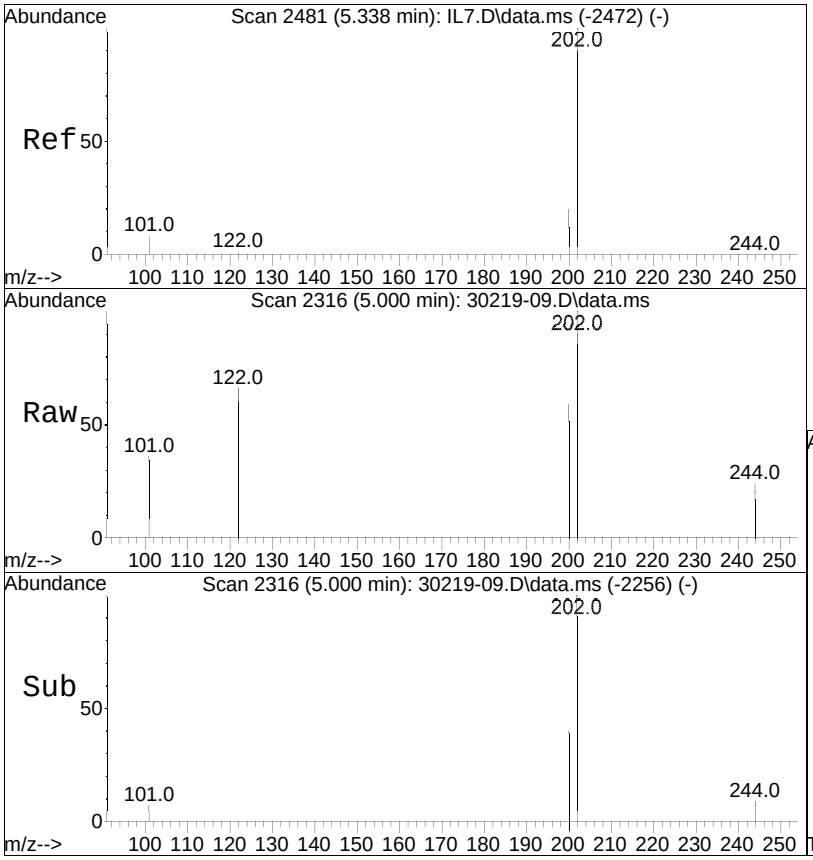


#27
Anthracene
Concen: 3.16 ng/ml M4
RT: 4.359 min Scan# 1976
Delta R.T. 0.002 min
Lab File: 30219-09.D
Acq: 04 Jun 2024 05:25 pm

Tgt Ion:178 Resp: 135

Ion	Ratio	Lower	Upper
178	100		
179	25.2	12.2	18.4#

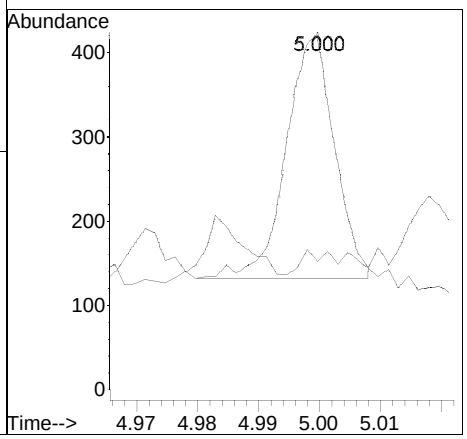


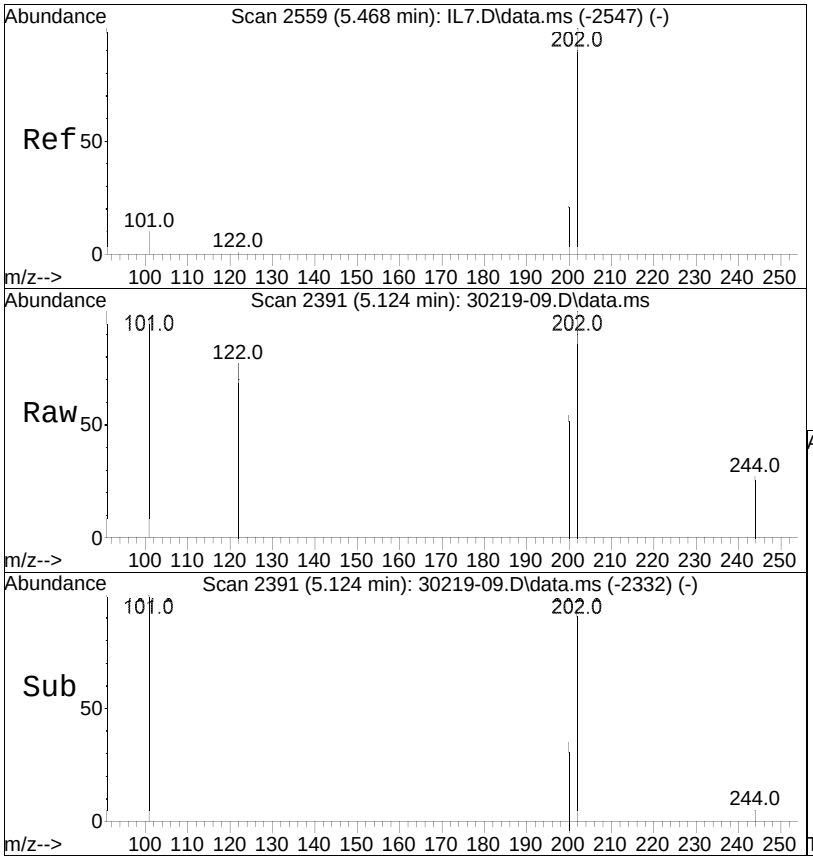


#28
Fluoranthene
Concen: 2.80 ng/ml M7
RT: 5.000 min Scan# 2316
Delta R.T. -0.000 min
Lab File: 30219-09.D
Acq: 04 Jun 2024 05:25 pm

Tgt Ion:202 Resp: 159

Ion	Ratio	Lower	Upper
202	100		
101	11.3	8.3	12.5

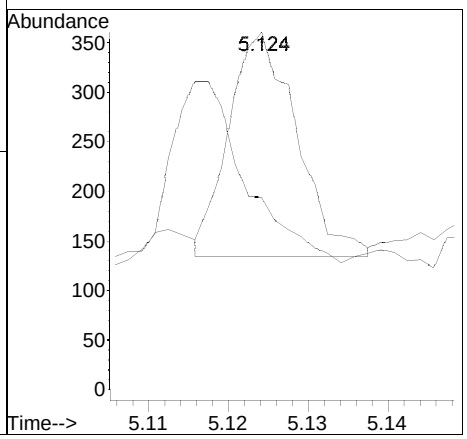




#29
Pyrene
Concen: 2.30 ng/ml M6
RT: 5.124 min Scan# 2391
Delta R.T. -0.002 min
Lab File: 30219-09.D
Acq: 04 Jun 2024 05:25 pm

Tgt Ion:202 Resp: 134

Ion	Ratio	Lower	Upper
202	100		
200	26.1	17.3	25.9#

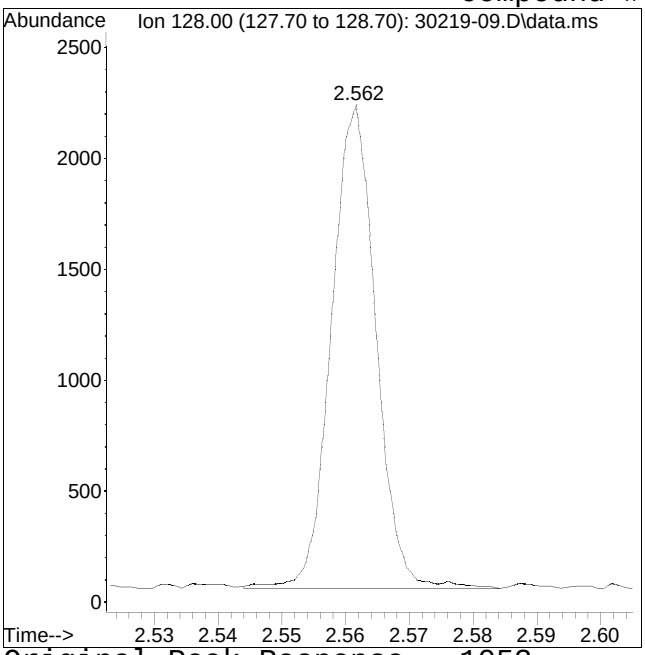


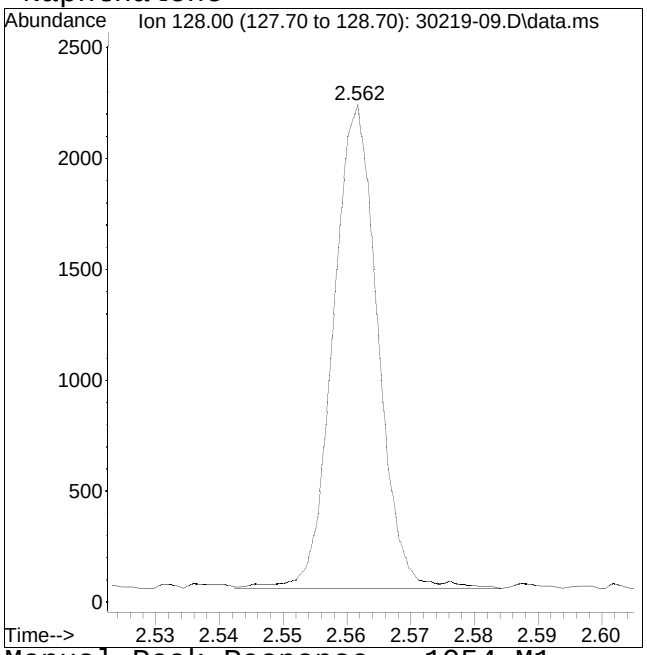
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQ
Data File : 30219-09.D
Date Inj'd : 6/4/2024 5:25 pm
Sample : L2430219-09,32,,ah

Method : SIM-LVI_231207n_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 6/4/2024 5:39 pm

Compound #9: Naphthalene





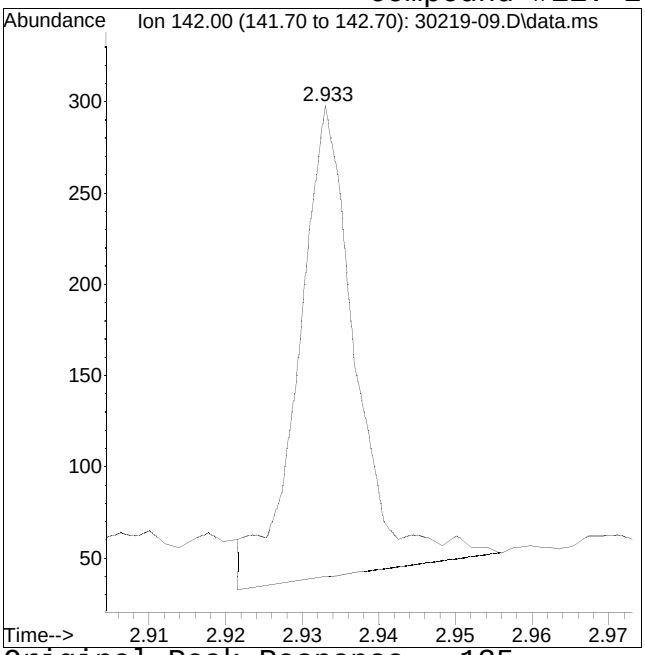
Original Peak Response = 1053 Manual Peak Response = 1054 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

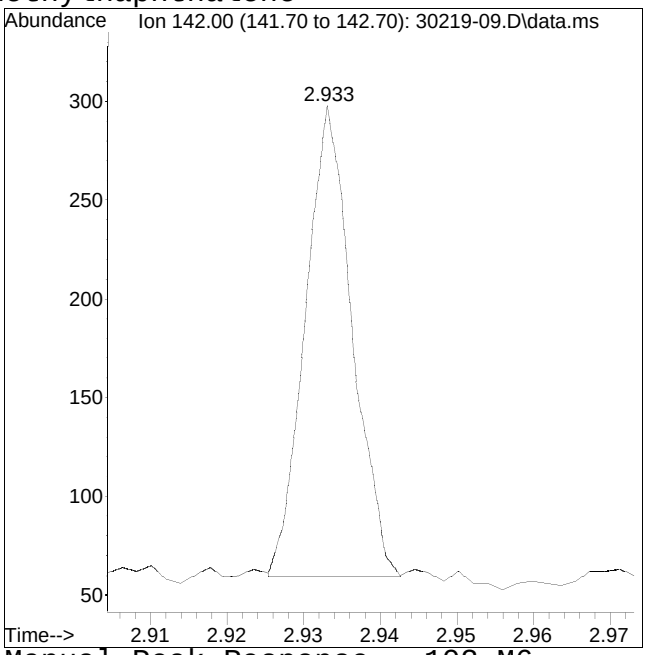
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-09.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 5:25 pm Instrument : SV119
Sample : L2430219-09,32,,ah Quant Date : 6/4/2024 5:39 pm

Compound #11: 2-Methylnaphthalene



Original Peak Response = 135



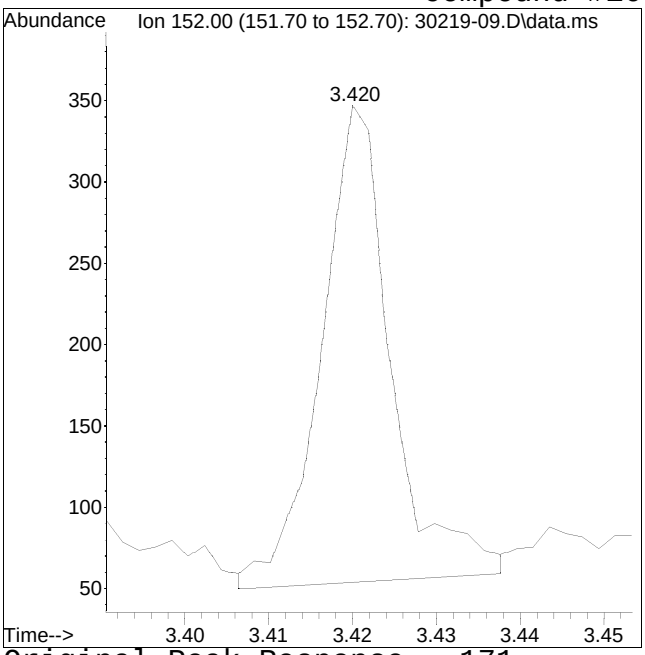
Manual Peak Response = 102 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

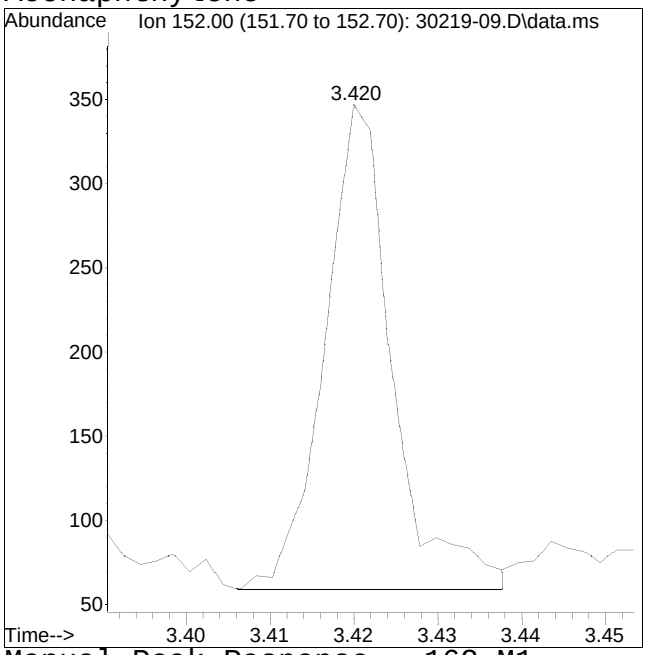
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-09.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 5:25 pm Instrument : SV119
Sample : L2430219-09,32,,ah Quant Date : 6/4/2024 5:39 pm

Compound #16: Acenaphthylene



Original Peak Response = 171



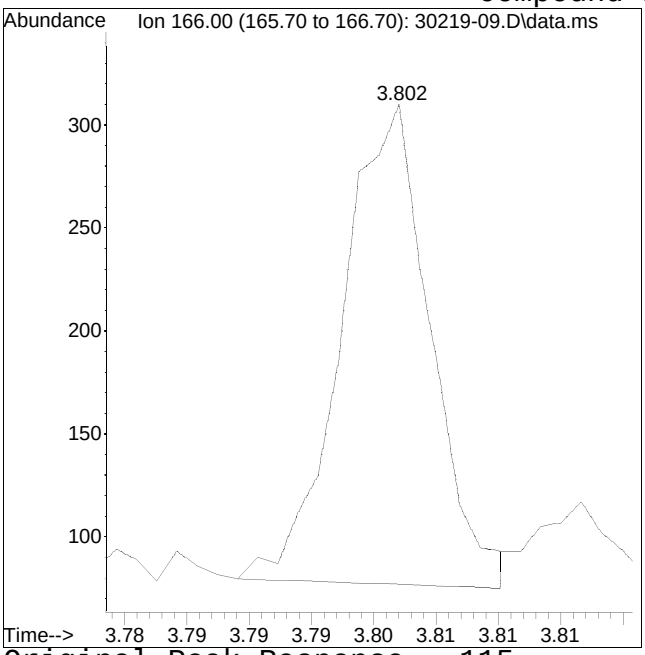
Manual Peak Response = 162 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

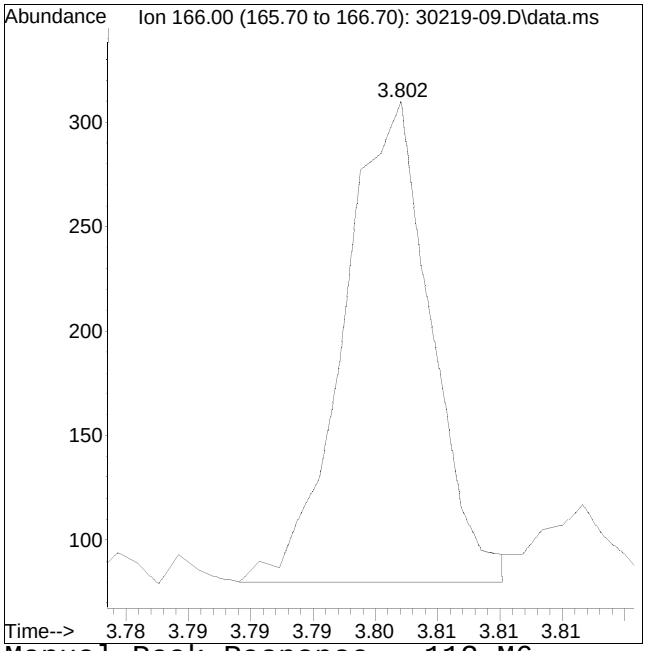
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-09.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 5:25 pm Instrument : SV119
Sample : L2430219-09,32,,ah Quant Date : 6/4/2024 5:39 pm

Compound #20: Fluorene



Original Peak Response = 115



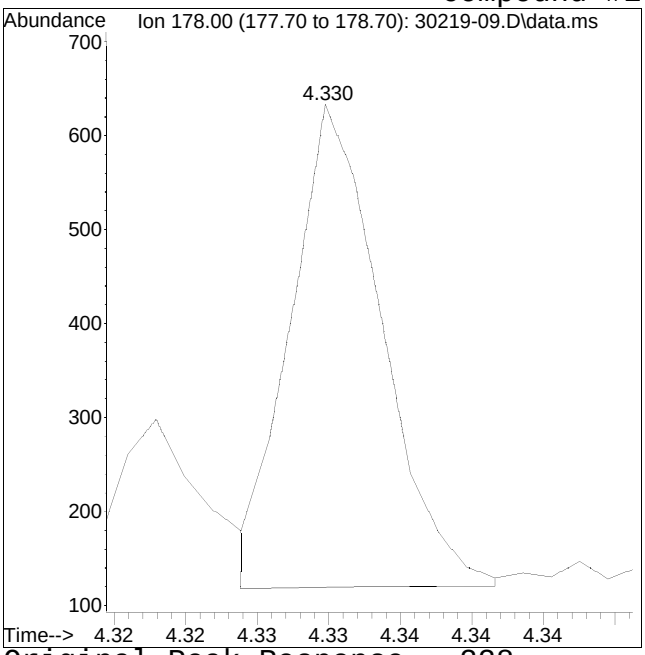
Manual Peak Response = 112 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

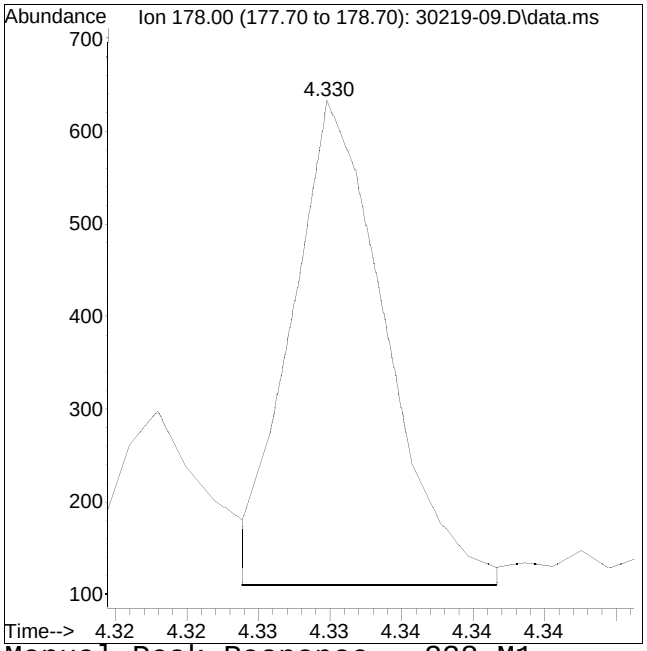
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-09.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 5:25 pm Instrument : SV119
Sample : L2430219-09,32,,ah Quant Date : 6/4/2024 5:39 pm

Compound #26: Phenanthrene



Original Peak Response = 228



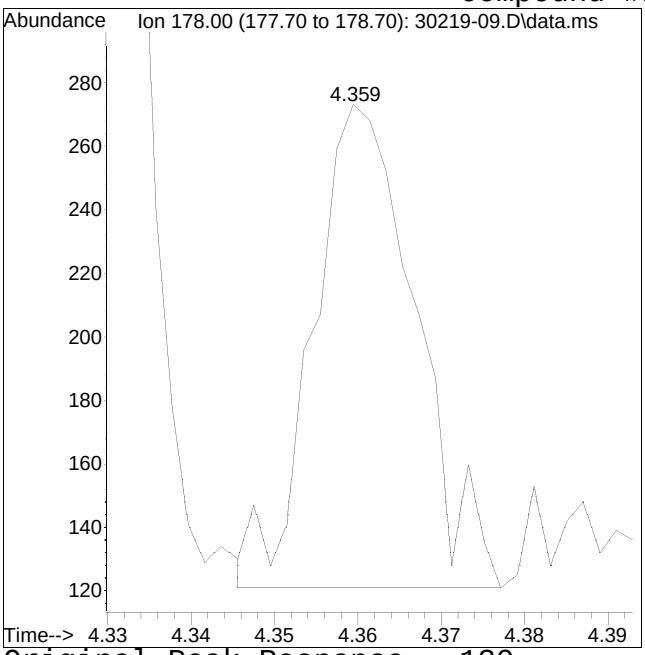
Manual Peak Response = 238 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

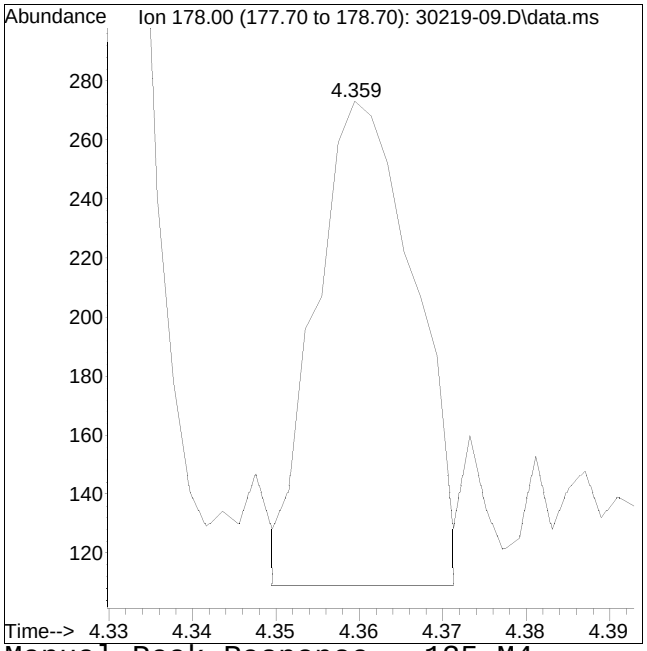
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-09.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 5:25 pm Instrument : SV119
Sample : L2430219-09,32,,ah Quant Date : 6/4/2024 5:39 pm

Compound #27: Anthracene



Original Peak Response = 130



Manual Peak Response = 135 M4

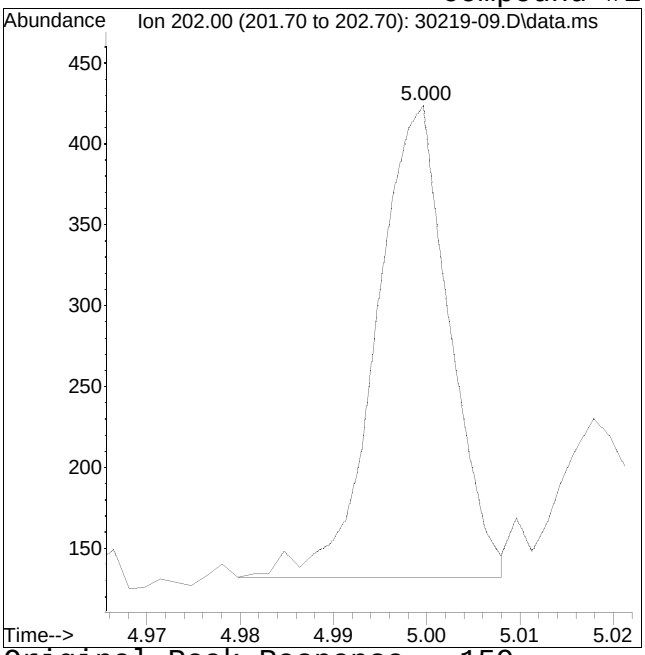
M4 = Poor automated baseline construction.

Manual Integration Report

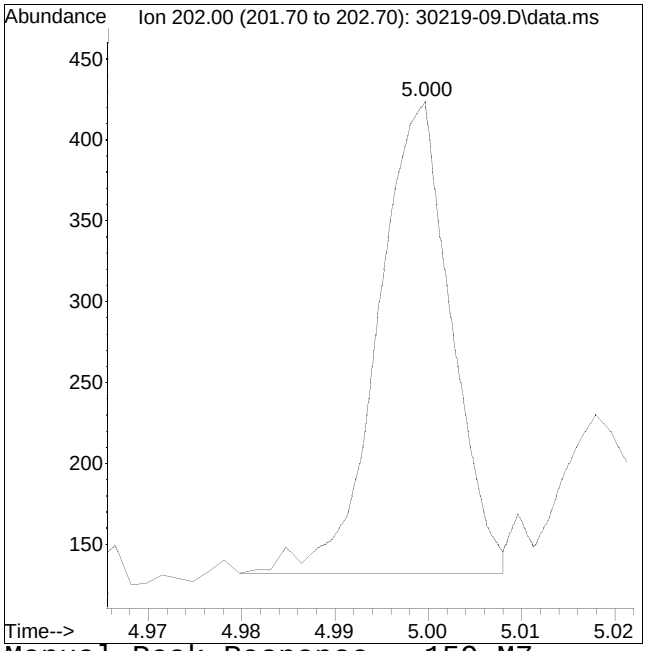
Data Path : I:\8270SIM\sv119\240604LVIQ
Data File : 30219-09.D
Date Inj'd : 6/4/2024 5:25 pm
Sample : L2430219-09,32,,ah

Method : SIM-LVI_231207n_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 6/4/2024 5:39 pm

Compound #28: Fluoranthene



Original Peak Response = 159



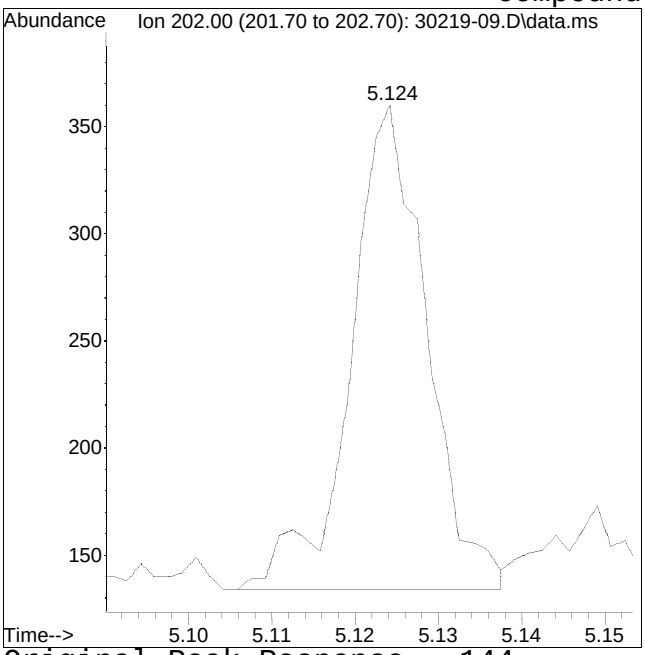
Manual Peak Response = 159 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

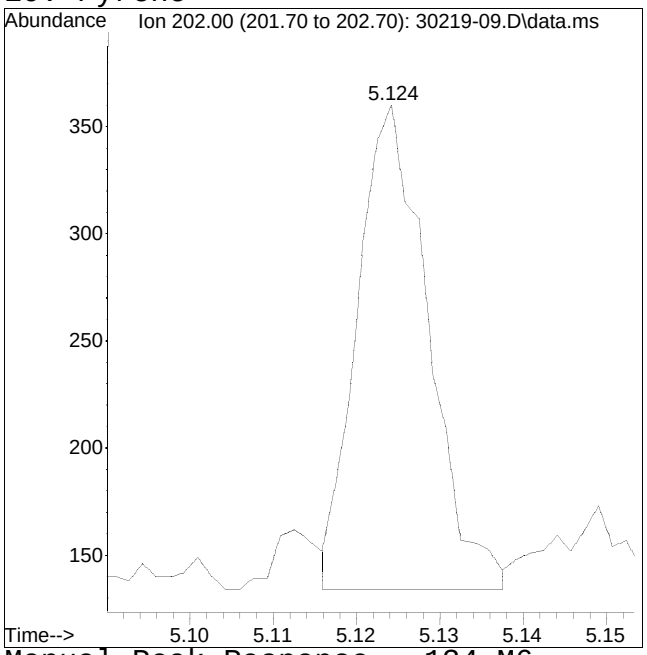
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-09.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 5:25 pm Instrument : SV119
Sample : L2430219-09,32,,ah Quant Date : 6/4/2024 5:39 pm

Compound #29: Pyrene



Original Peak Response = 144



Manual Peak Response = 134 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240606LVI\
Data File : 30219-10.D
Acq On : 06 Jun 2024 05:36 pm
Operator : sv119:rp
Sample : L2430219-10,32,,RV(con),jjw
Misc : WG1930543,WG1929068,ical20642
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 12:00:02 2024
Quant Method : I:\8270sim\sv119\240606LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 06 06:54:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240606LVI\ccv0606.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.903	152	43125	4000.000	ng/ml	0.00
Standard Area 1 = 44606			Recovery = 96.68%			
8) Naphthalene-d8	2.548	136	141732	4000.000	ng/ml	0.00
Standard Area 1 = 148665			Recovery = 95.34%			
17) Acenaphthene-d10	3.497	164	74473	4000.000	ng/ml	0.00
Standard Area 1 = 79727			Recovery = 93.41%			
22) Phenanthrene-d10	4.316	188	154215	4000.000	ng/ml	0.00
Standard Area 1 = 178963			Recovery = 86.17%			
31) Chrysene-d12	5.835	240	155853	4000.000	ng/ml	-0.01
Standard Area 1 = 176607			Recovery = 88.25%			
36) Perylene-d12	6.781	264	179763	4000.000	ng/ml	-0.02
Standard Area 1 = 187208			Recovery = 96.02%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.336	112	39037	3309.509	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 66.19%			
3) Phenol-d6	1.739	99	38800	2744.168	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 54.88%			
7) Nitrobenzene-d5	2.180	82	23922	2230.474	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 89.22%			
13) 2-Fluorobiphenyl	3.136	172	54939	1735.597	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 69.42%			
21) 2,4,6-Tribromophenol	3.934	330	21106	5140.514	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 102.81%			
30) 4-Terphenyl-d14	5.228	244	57075	1509.714	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 60.39%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	2.559	128	888	26.239	ng/ml#	96
10) Hexachlorobutadiene	2.633	225	24	3.293	ng/ml#	62
11) 2-Methylnaphthalene	2.930	142	156	6.234	ng/ml	92
14) 2-Chloronaphthalene	3.193	162	156	5.853	ng/ml#	69
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	3.514	153	65	2.823	ng/ml	94
20) Fluorene	3.799	166	118	4.288	ng/ml	94
24) Hexachlorobenzene	4.109	284	40	4.012	ng/ml#	76
25) Pentachlorophenol	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240606LVI\
Data File : 30219-10.D
Acq On : 06 Jun 2024 05:36 pm
Operator : sv119:rp
Sample : L2430219-10,32,,RV(con),jjw
Misc : WG1930543,WG1929068,ical20642
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 12:00:02 2024
Quant Method : I:\8270sim\sv119\240606LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 06 06:54:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240606LVI\ccv0606.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.328	178	280	7.148	ng/ml	100
27) Anthracene	4.358	178	159M6	4.093	ng/ml	
28) Fluoranthene	4.998	202	198M6	3.835	ng/ml	
29) Pyrene	5.123	202	134	2.526	ng/ml	99
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

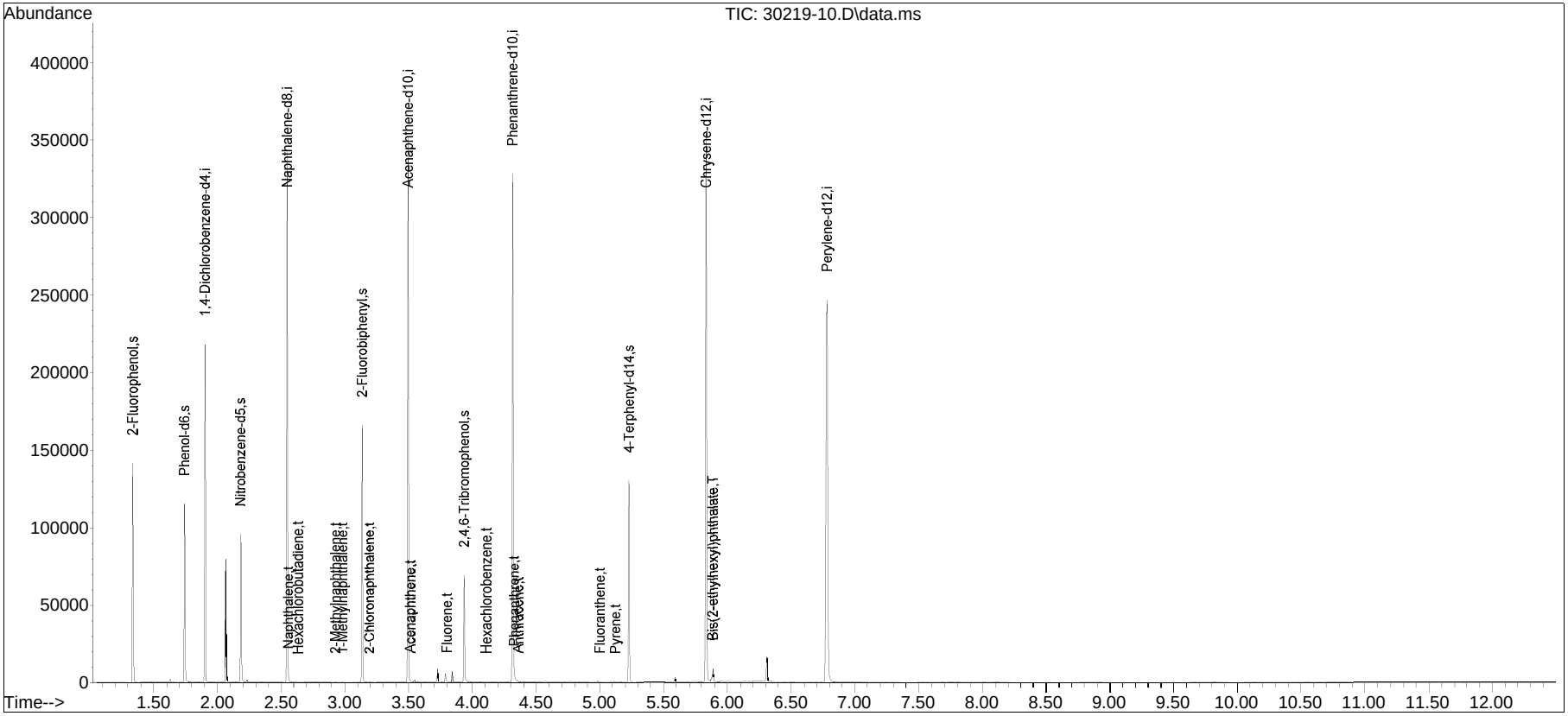
(#) = qualifier out of range (m) = manual integration (+) = signals summed

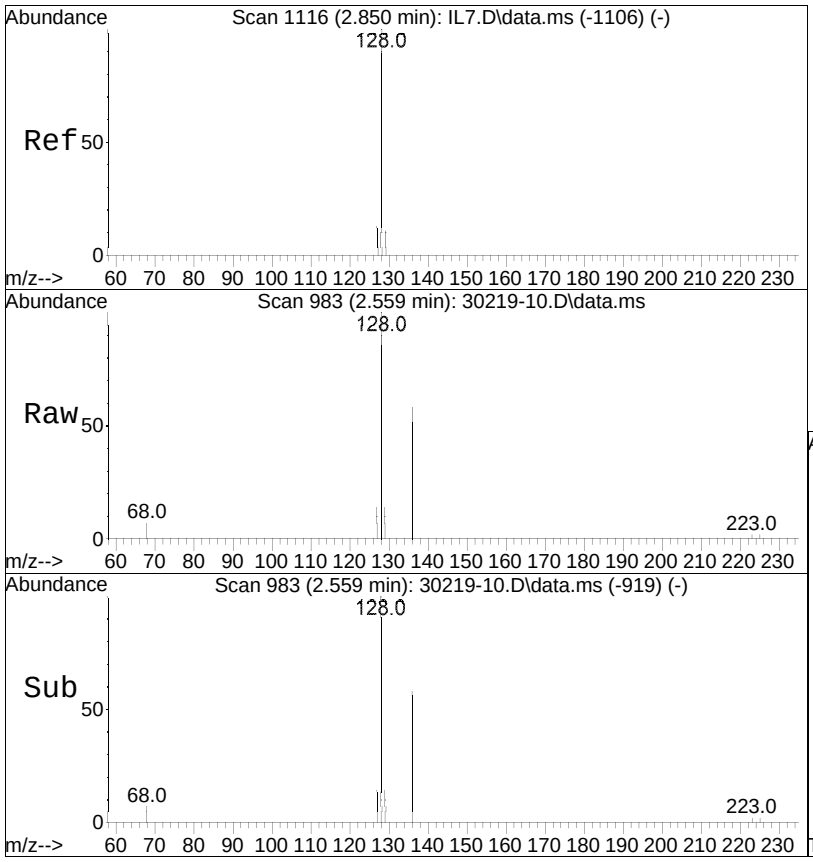
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240606LVI\
Data File : 30219-10.D
Acq On : 06 Jun 2024 05:36 pm
Operator : sv119:rp
Sample : L2430219-10,32,,RV(con),jjw
Misc : WG1930543,WG1929068,ical20642
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 12:00:02 2024
Quant Method : I:\8270sim\sv119\240606LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 06 06:54:43 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0606.D•

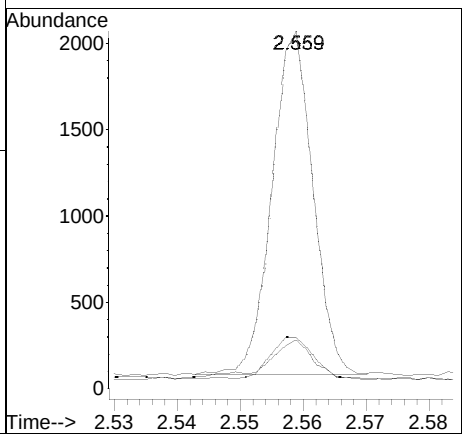


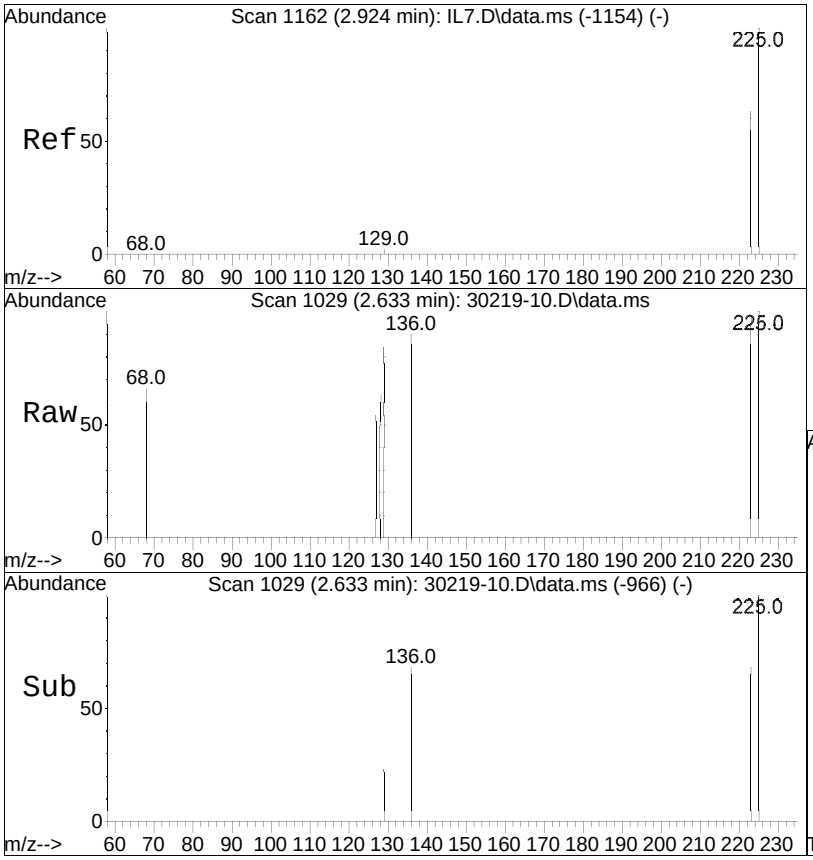


#9
Naphthalene
Concen: 26.24 ng/ml
RT: 2.559 min Scan# 983
Delta R.T. 0.004 min
Lab File: 30219-10.D
Acq: 06 Jun 2024 05:36 pm

Tgt Ion:128 Resp: 888

Ion	Ratio	Lower	Upper
128	100		
129	13.9	8.8	13.2#
127	13.4	10.6	15.8

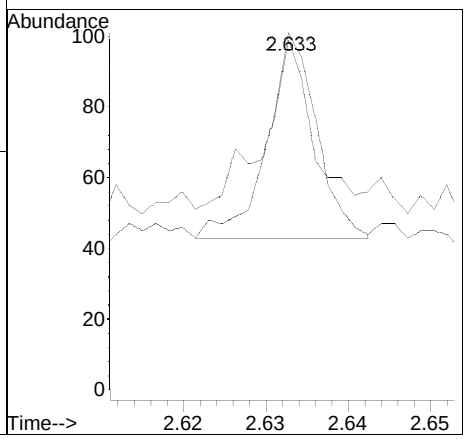


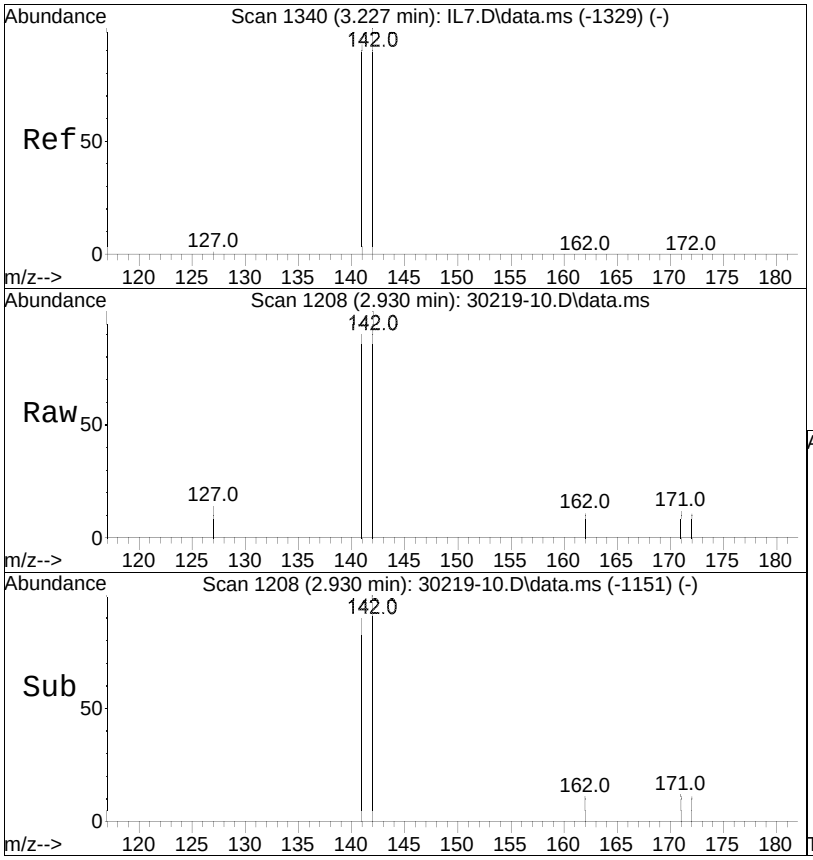


#10
Hexachlorobutadiene
Concen: 3.29 ng/ml
RT: 2.633 min Scan# 1029
Delta R.T. 0.002 min
Lab File: 30219-10.D
Acq: 06 Jun 2024 05:36 pm

Tgt Ion:225 Resp: 24

Ion	Ratio	Lower	Upper
225	100		
223	91.7	50.1	75.1#

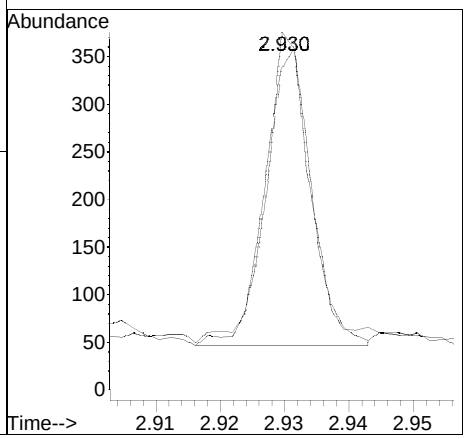


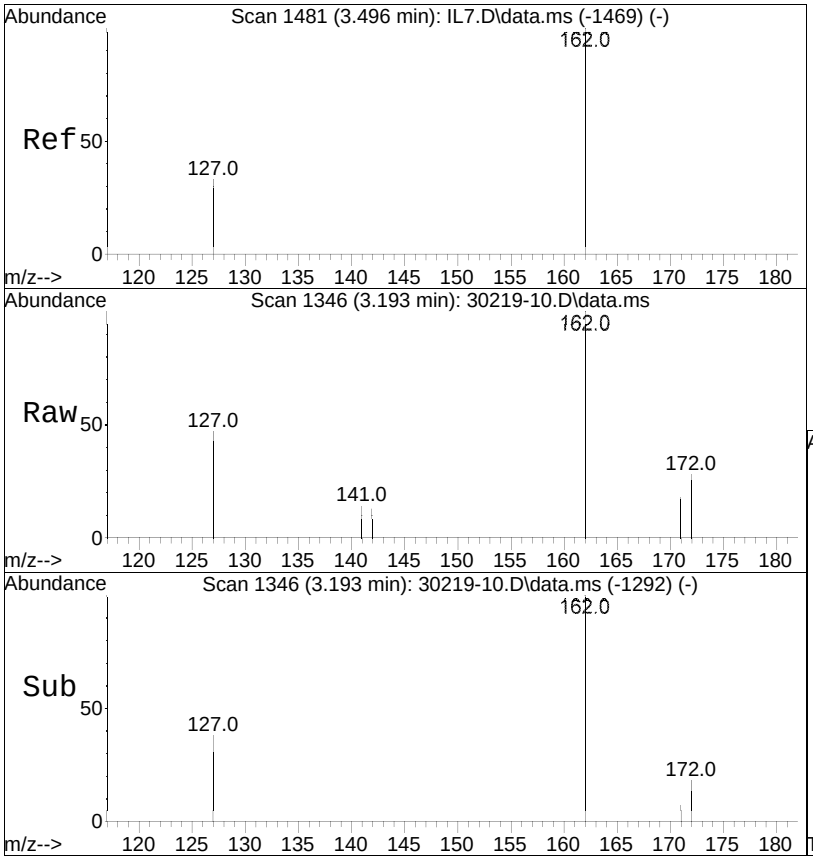


#11
2-Methylnaphthalene
Concen: 6.23 ng/ml
RT: 2.930 min Scan# 1208
Delta R.T. 0.000 min
Lab File: 30219-10.D
Acq: 06 Jun 2024 05:36 pm

Tgt Ion:142 Resp: 156

Ion	Ratio	Lower	Upper
142	100		
141	100.6	74.1	111.1

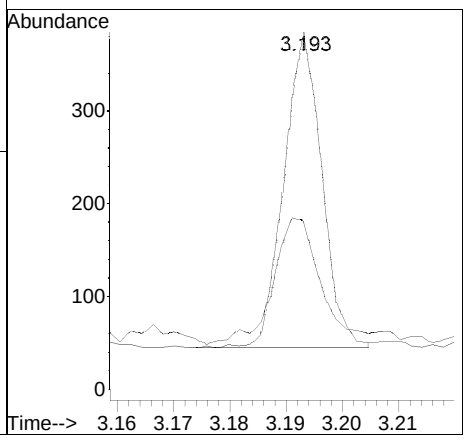


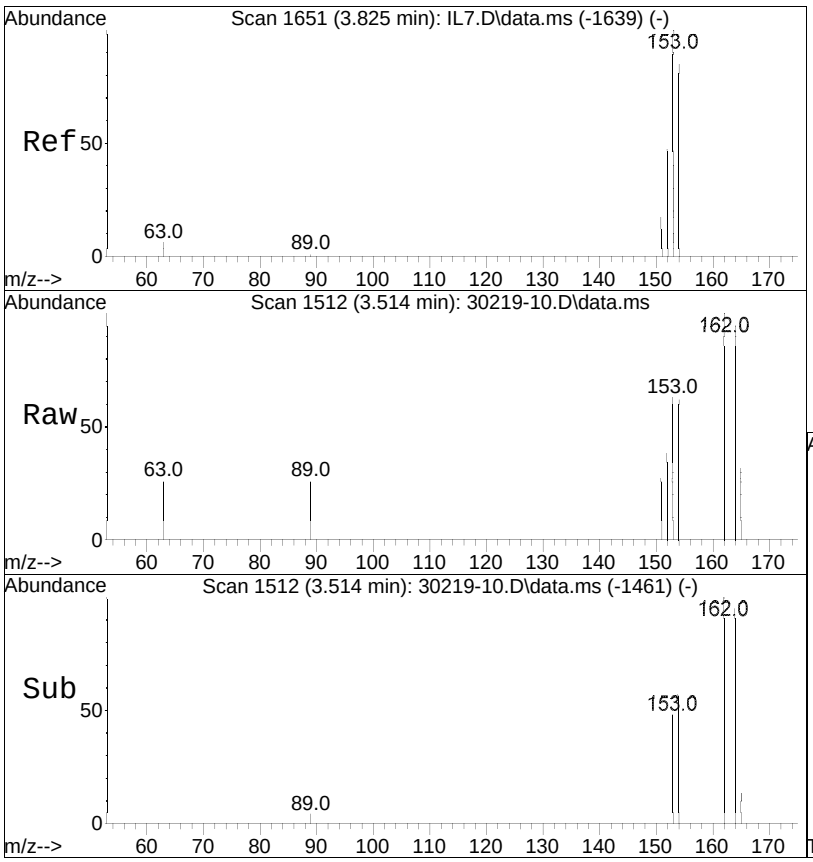


#14
2-Chloronaphthalene
Concen: 5.85 ng/ml
RT: 3.193 min Scan# 1346
Delta R.T. 0.002 min
Lab File: 30219-10.D
Acq: 06 Jun 2024 05:36 pm

Tgt Ion:162 Resp: 156

Ion	Ratio	Lower	Upper
162	100		
127	55.8	29.7	44.5#

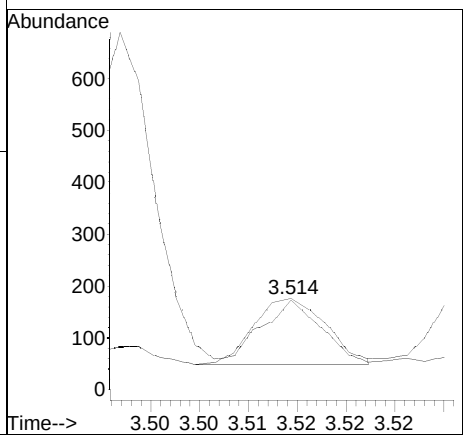


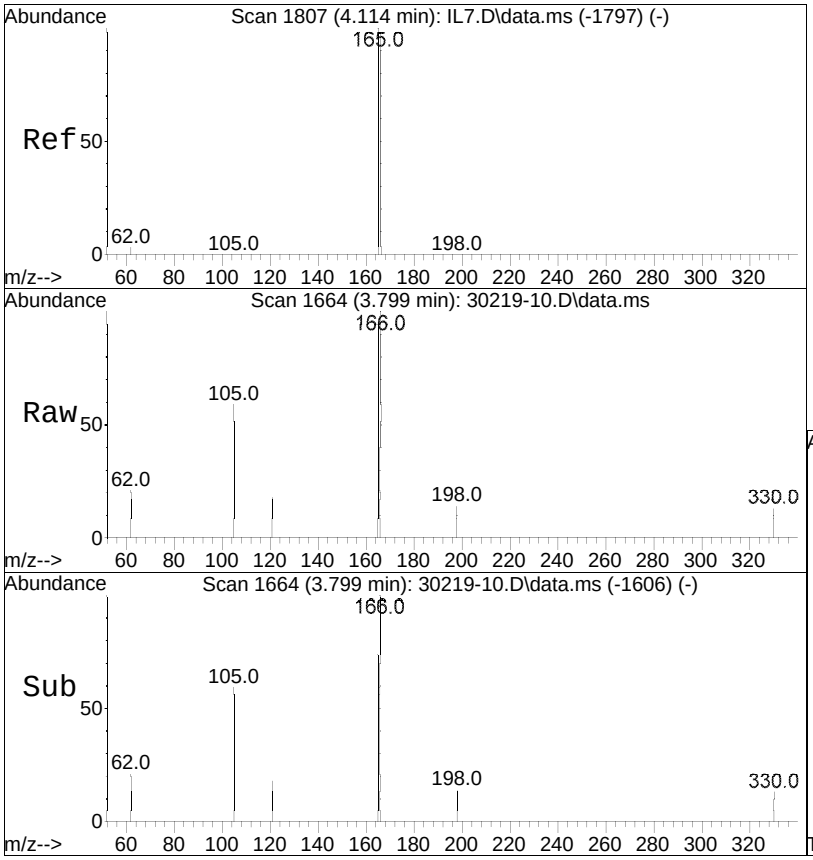


#18
Acenaphthene
Concen: 2.82 ng/ml
RT: 3.514 min Scan# 1512
Delta R.T. 0.000 min
Lab File: 30219-10.D
Acq: 06 Jun 2024 05:36 pm

Tgt Ion:153 Resp: 65

Ion	Ratio	Lower	Upper
153	100		
154	89.2	66.9	100.3

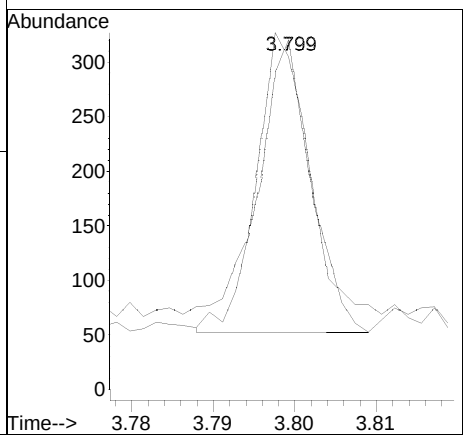


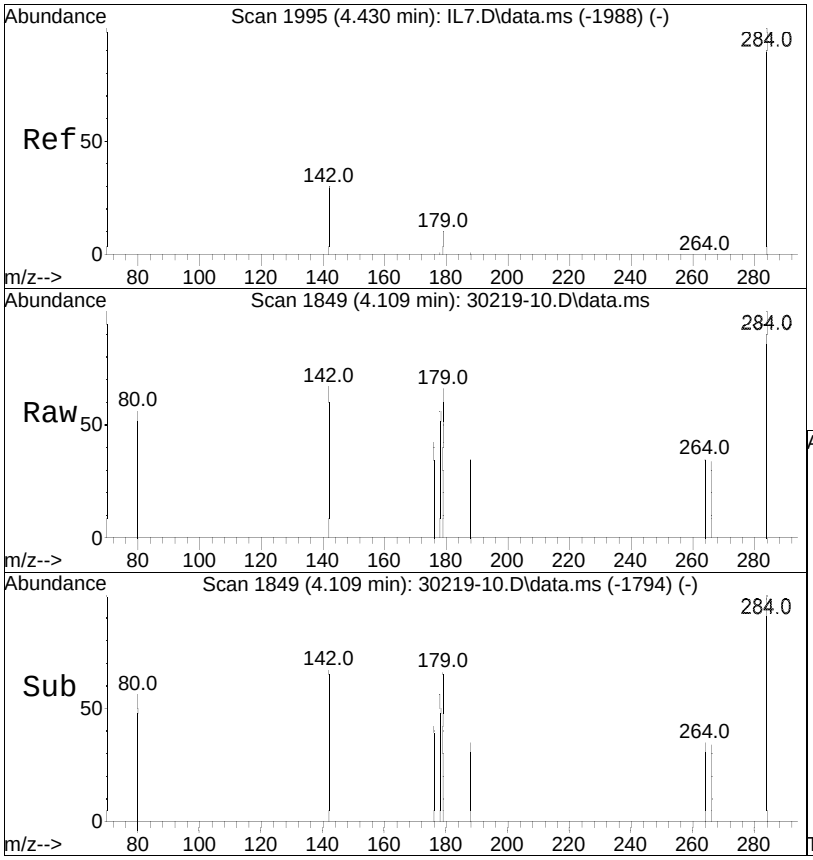


#20
Fluorene
Concen: 4.29 ng/ml
RT: 3.799 min Scan# 1664
Delta R.T. 0.000 min
Lab File: 30219-10.D
Acq: 06 Jun 2024 05:36 pm

Tgt Ion:166 Resp: 118

Ion	Ratio	Lower	Upper
166	100		
165	110.2	82.9	124.3

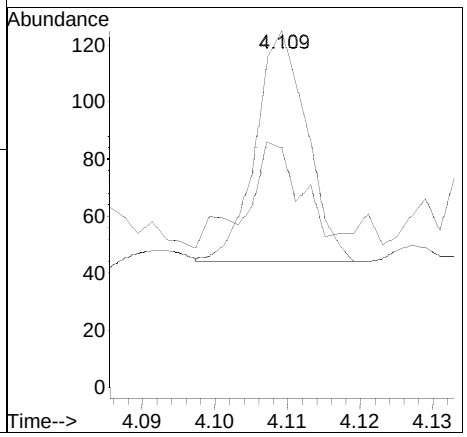


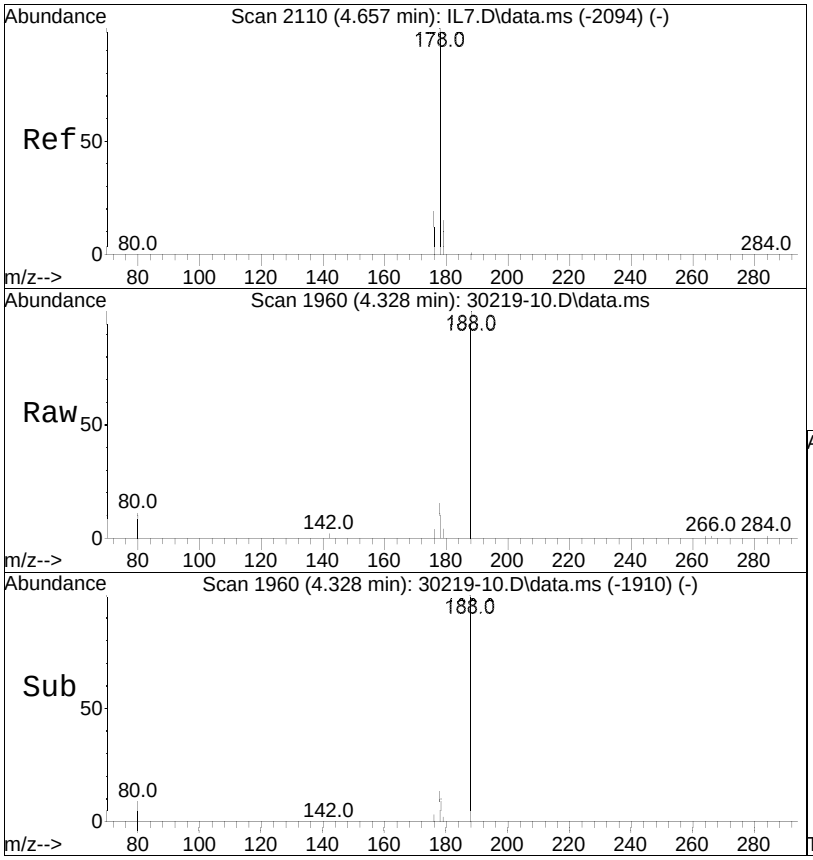


#24
Hexachlorobenzene
Concen: 4.01 ng/ml
RT: 4.109 min Scan# 1849
Delta R.T. 0.000 min
Lab File: 30219-10.D
Acq: 06 Jun 2024 05:36 pm

Tgt Ion:284 Resp: 40

Ion	Ratio	Lower	Upper
284	100		
142	47.5	26.9	40.3#

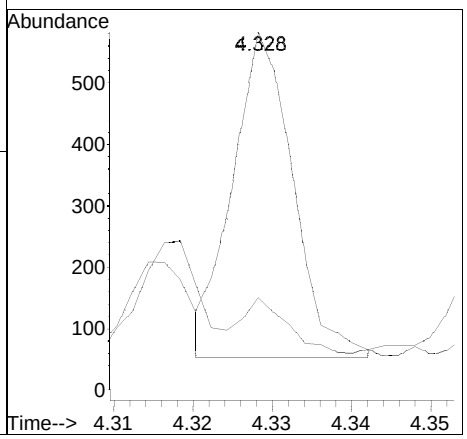


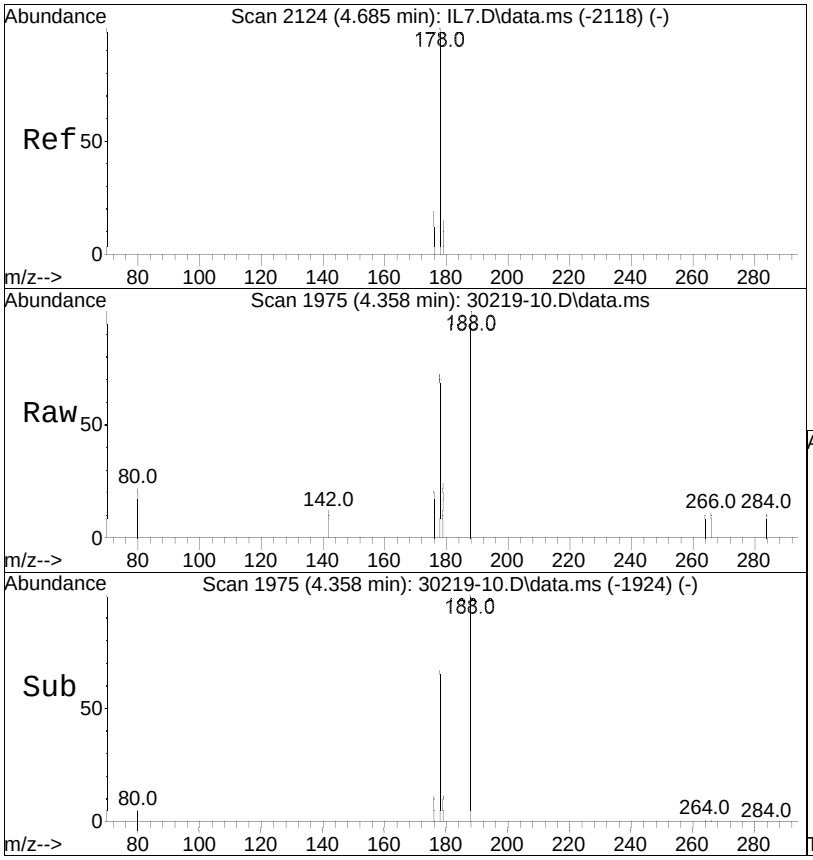


#26
Phenanthrene
Concen: 7.15 ng/ml
RT: 4.328 min Scan# 1960
Delta R.T. -0.002 min
Lab File: 30219-10.D
Acq: 06 Jun 2024 05:36 pm

Tgt Ion:178 Resp: 280

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.3	18.5

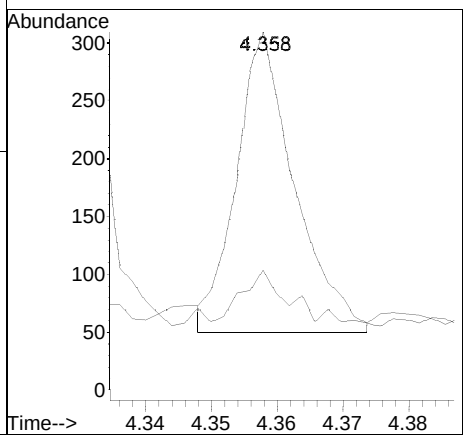


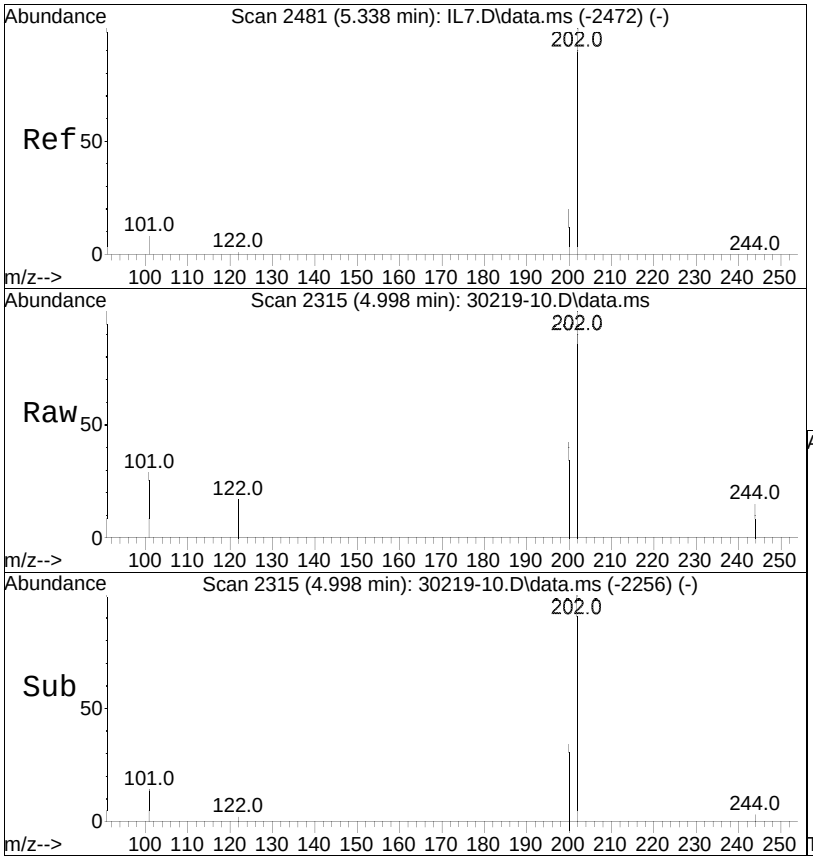


#27
Anthracene
Concen: 4.09 ng/ml M6
RT: 4.358 min Scan# 1975
Delta R.T. 0.000 min
Lab File: 30219-10.D
Acq: 06 Jun 2024 05:36 pm

Tgt Ion:178 Resp: 159

Ion	Ratio	Lower	Upper
178	100		
179	19.5	12.2	18.4#

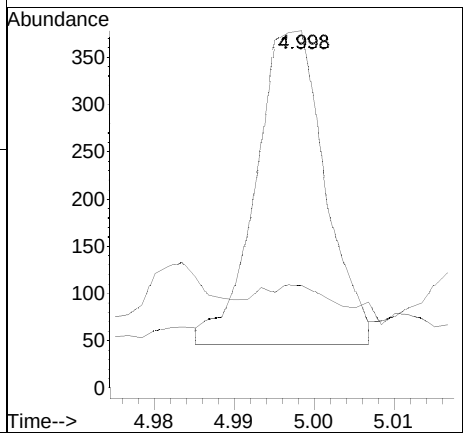


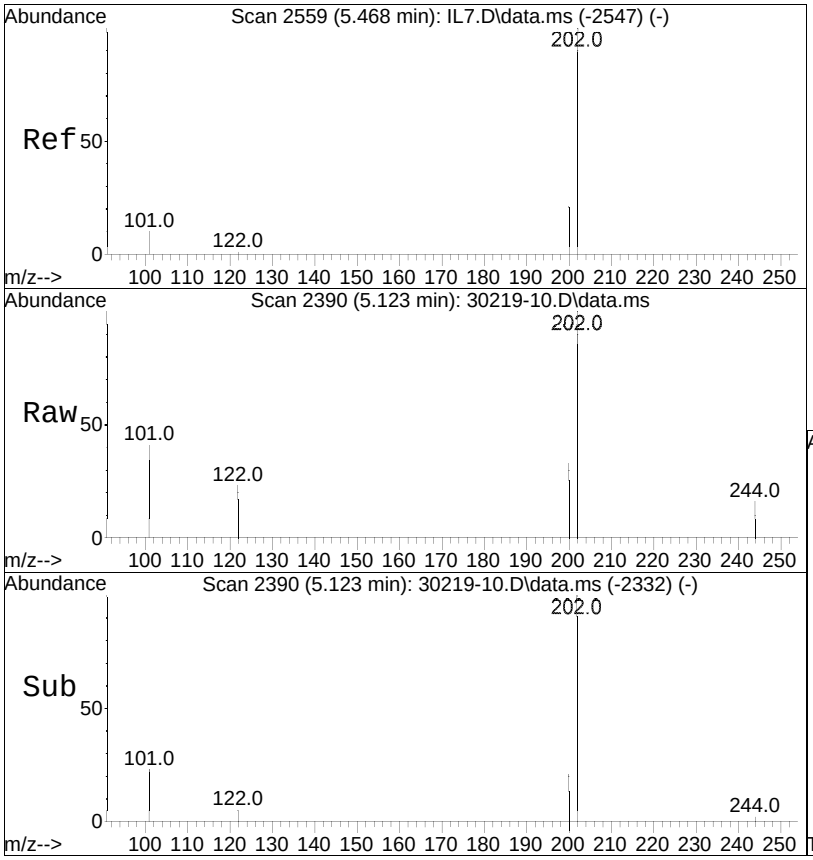


#28
Fluoranthene
Concen: 3.84 ng/ml M6
RT: 4.998 min Scan# 2315
Delta R.T. -0.001 min
Lab File: 30219-10.D
Acq: 06 Jun 2024 05:36 pm

Tgt Ion:202 Resp: 198

Ion	Ratio	Lower	Upper
202	100		
101	16.7	8.3	12.5#

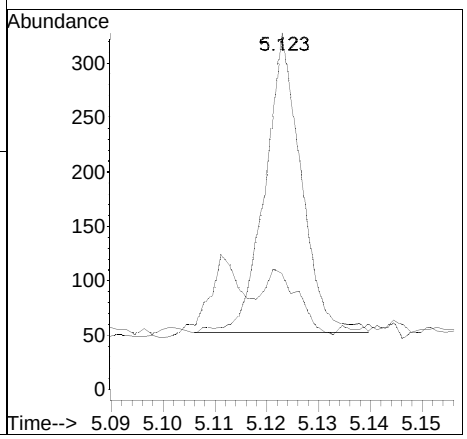




#29
Pyrene
Concen: 2.53 ng/ml
RT: 5.123 min Scan# 2390
Delta R.T. -0.003 min
Lab File: 30219-10.D
Acq: 06 Jun 2024 05:36 pm

Tgt Ion:202 Resp: 134

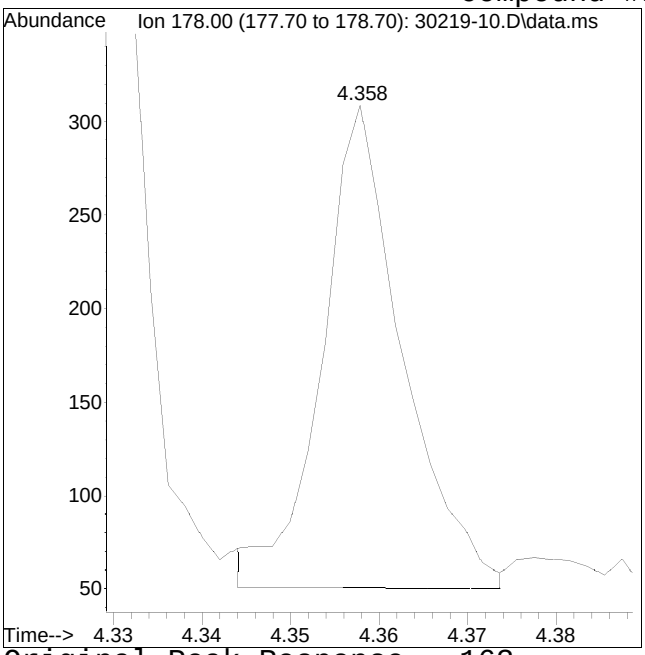
Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.3	25.9



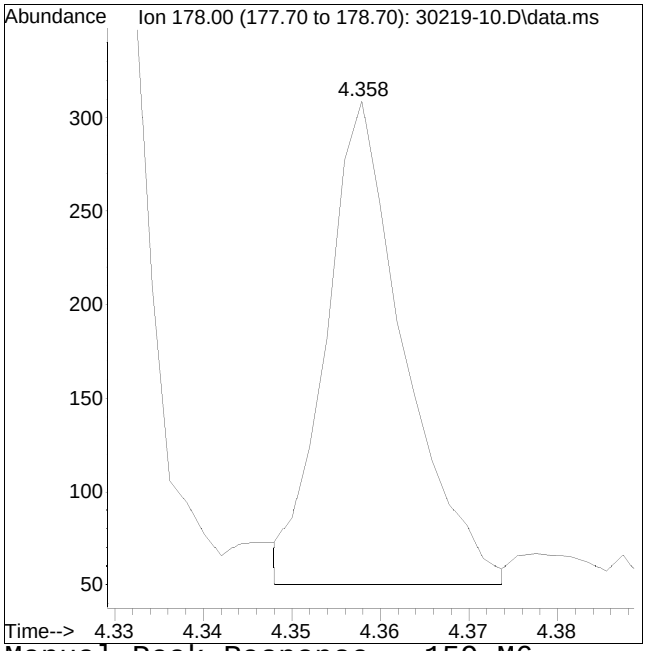
Manual Integration Report

Data Path : I:\8270SIM\sv119\240606LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-10.D Operator : sv119:rp
Date Inj'd : 6/6/2024 5:36 pm Instrument : SV119
Sample : L2430219-10,32,,RV(con),jjQuant Date : 6/6/2024 5:51 pm

Compound #27: Anthracene



Original Peak Response = 163



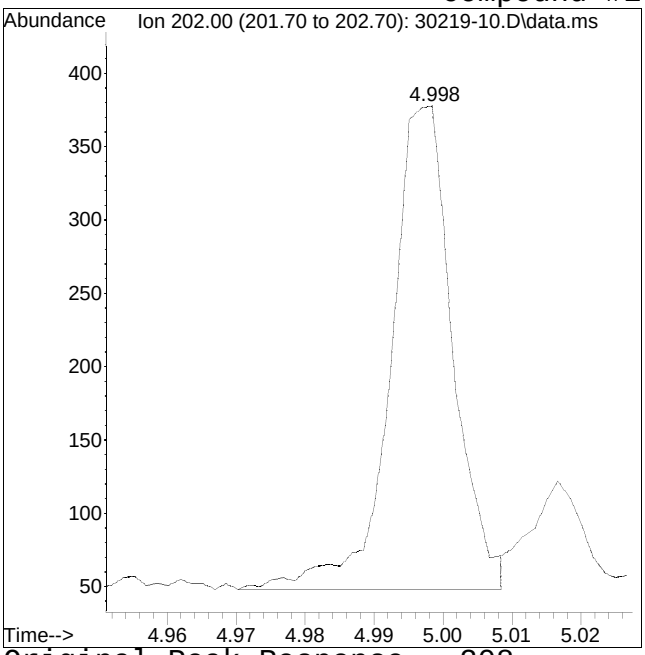
Manual Peak Response = 159 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

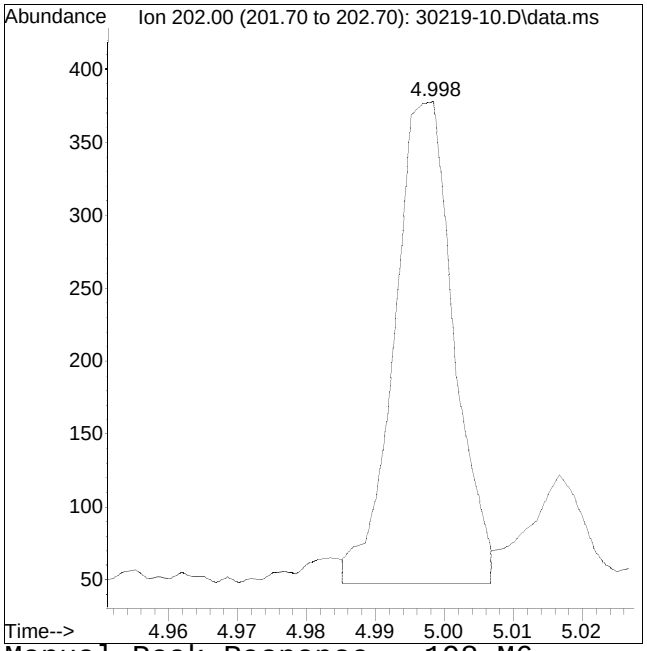
Manual Integration Report

Data Path : I:\8270SIM\sv119\240606LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 30219-10.D Operator : sv119:rp
Date Inj'd : 6/6/2024 5:36 pm Instrument : SV119
Sample : L2430219-10,32,,RV(con),jjQuant Date : 6/6/2024 5:51 pm

Compound #28: Fluoranthene



Original Peak Response = 208



Manual Peak Response = 198 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2430219**
Project Name	**: HUNTINGTON READY MIXED**	**Project Number**	**: 20116**
Instrument ID	**: SV119**	**Ical Ref**	**: ICAL20642**
Calibration dates	**: 12/07/23 13:10 12/07/23 15:42**		

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	ISTD											
2)	s	2-Fluorophenol	1.128	1.130	1.105	1.108	1.126	1.154	1.183	1.104	0.991	0.913	1.094	7.38
3)	s	Phenol-d6	1.431	1.310	1.266	1.271	1.295	1.318	1.344	1.361	1.291	1.227	1.311	4.35
4)	T	bis(2-Chloroethyl)ether	1.279	1.233	1.161	1.139	1.143	1.131	1.127	1.055	0.978	0.906	1.115	9.94
5)	T	n-Nitrosodi-n-propylamine	0.606	0.634	0.623	0.607	0.628	0.633	0.695	0.768	0.761	0.716	0.667	9.38
6)	t	Hexachloroethane	0.555	0.531	0.504	0.484	0.482	0.480	0.504	0.500	0.471	0.436	0.495	6.61
7)	s	Nitrobenzene-d5	0.909	1.019	0.996	0.951	0.985	1.001	1.054	1.070	1.020	0.943	0.995	5.02
8)	i	Naphthalene-d8	ISTD											
9)	t	Naphthalene	0.998	1.012	1.012	0.992	0.994	0.993	0.999	0.932	0.849	0.770	0.955	8.60
10)	t	Hexachlorobutadiene	0.221	0.210	0.218	0.218	0.216	0.214	0.217	0.199	0.181	0.164	0.206	9.28
11)	t	2-Methylnaphthalene	0.732	0.746	0.743	0.748	0.749	0.742	0.749	0.688	0.618	0.546	0.706	9.93
12)	t	1-Methylnaphthalene	0.707	0.693	0.703	0.693	0.699	0.686	0.677	0.610	0.553	0.491	0.651	11.50
13)	s	2-Fluorobiphenyl	0.988	0.971	0.984	0.978	0.990	0.959	0.936	0.808	0.713	0.607	0.893	15.29
14)	t	2-Chloronaphthalene	0.802	0.813	0.816	0.806	0.806	0.788	0.773	0.707	0.645	0.566	0.752	11.40
15)	t	2,6-Dinitrotoluene		0.164	0.169	0.162	0.166	0.164	0.174	0.190	0.182	0.159	0.170	6.08
16)	t	Acenaphthylene	1.199	1.148	1.165	1.153	1.164	1.163	1.188	1.114	1.014	0.872	1.118	9.00
17)	i	Acenaphthene-d10	ISTD											
18)	t	Acenaphthene	1.289	1.260	1.273	1.276	1.282	1.287	1.307	1.236	1.133	1.025	1.237	7.18
19)	t	2,4-Dinitrotoluene		0.323	0.315	0.326	0.331	0.350	0.402	0.450	0.431	0.390	0.369	13.78
20)	t	Fluorene	1.538	1.530	1.512	1.514	1.531	1.533	1.582	1.490	1.349	1.202	1.478	7.75
21)	s	2,4,6-Tribromophenol	0.215	0.214	0.203	0.207	0.204	0.214	0.239	0.253	0.241	0.216	0.221	7.87
22)	i	Phenanthrene-d10	ISTD											
23)	T	4,6-Dinitro-o-cresol					0.076	0.091	0.107	0.125	0.123	0.118	*L	0.9991
24)	t	Hexachlorobenzene	0.291	0.267	0.269	0.265	0.271	0.269	0.271	0.254	0.226	0.203	0.259	9.86
25)	t	Pentachlorophenol			0.121	0.128	0.132	0.135	0.156	0.176	0.171	0.161	*L	0.9984
26)	t	Phenanthrene	1.082	1.054	1.058	1.046	1.067	1.064	1.067	1.004	0.902	0.815	1.016	8.65
27)	t	Anthracene	1.043	1.060	1.044	1.030	1.045	1.043	1.068	1.015	0.912	0.815	1.008	8.01
28)	t	Fluoranthene	1.460	1.462	1.429	1.426	1.420	1.422	1.427	1.256	1.114	0.975	1.339	12.62
29)	t	Pyrene	1.523	1.533	1.507	1.491	1.466	1.461	1.439	1.248	1.108	0.982	1.376	14.11
30)	s	4-Terphenyl-d14	1.122	1.124	1.093	1.087	1.077	1.050	1.016	0.843	0.748	0.647	0.981	17.46
31)	i	Chrysene-d12	ISTD											
32)	t	Benzo[a]anthracene		2.530	1.848	1.564	1.487	1.431	1.486	1.464	1.363	1.270	*L	0.9970
33)	t	3,3'-Dichlorobenzidine				0.520	0.544	0.563	0.626	0.694	0.664	0.619	0.604	10.63
34)	t	Chrysene	1.298	1.317	1.329	1.332	1.343	1.336	1.365	1.373	1.297	1.212	1.320	3.44
35)	T	bis(2-Ethylhexyl)phthalate				0.585	0.606	0.615	0.732	0.932	0.943	0.884	*L	0.9979
36)	i	Perylene-d12	ISTD											

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2430219**
Project Name	**: HUNTINGTON READY MIXED**	**Project Number**	**: 20116**
Instrument ID	**: SV119**	**Ical Ref**	**: ICAL20642**
Calibration dates	**: 12/07/23 13:10 12/07/23 15:42**		

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
37) t	Benzo[b]fluoranthene	1.513	1.472	1.474	1.420	1.462	1.457	1.506	1.366	1.213	1.091	1.397	9.93
38) t	Benzo[k]fluoranthene	1.429	1.404	1.420	1.430	1.443	1.413	1.377	1.233	1.133	0.987	1.327	11.80
39) t	Benzo[a]pyrene	1.272	1.281	1.279	1.262	1.288	1.281	1.306	1.222	1.105	1.003	1.230	7.99
40) t	Indeno[1,2,3-cd]pyrene	1.404	1.377	1.411	1.365	1.409	1.420	1.423	1.301	1.150	1.109	1.337	8.64
41) t	Dibenzo[a,h]anthracene	1.309	1.337	1.331	1.339	1.363	1.351	1.311	1.143	0.997	0.957	1.244	12.38
42) t	Benzo[g,h,i]perylene	1.473	1.463	1.458	1.432	1.450	1.466	1.429	1.255	1.107	1.065	1.360	11.61

Response Factor Report SV119

Method Path : I:\8270SIM\sv119\231207nLVIical\
Method File : SIM-LVI_231207n_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Dec 08 13:55:26 2023
Response Via : Initial Calibration

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

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8)	i	Naphthalene-d8	ISTD											
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23)	T	4,6-Dinitro-o-cresol						0.076	0.091	0.107	0.125	0.123	0.118	*L 0.9991
24)	t	Hexachlorobenzene	0.291	0.267	0.269	0.265	0.271	0.269	0.271	0.254	0.226	0.203	0.259	9.86
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29)	t	Pyrene	1.523	1.533	1.507	1.491	1.466	1.461	1.439	1.248	1.108	0.982	1.376	14.11
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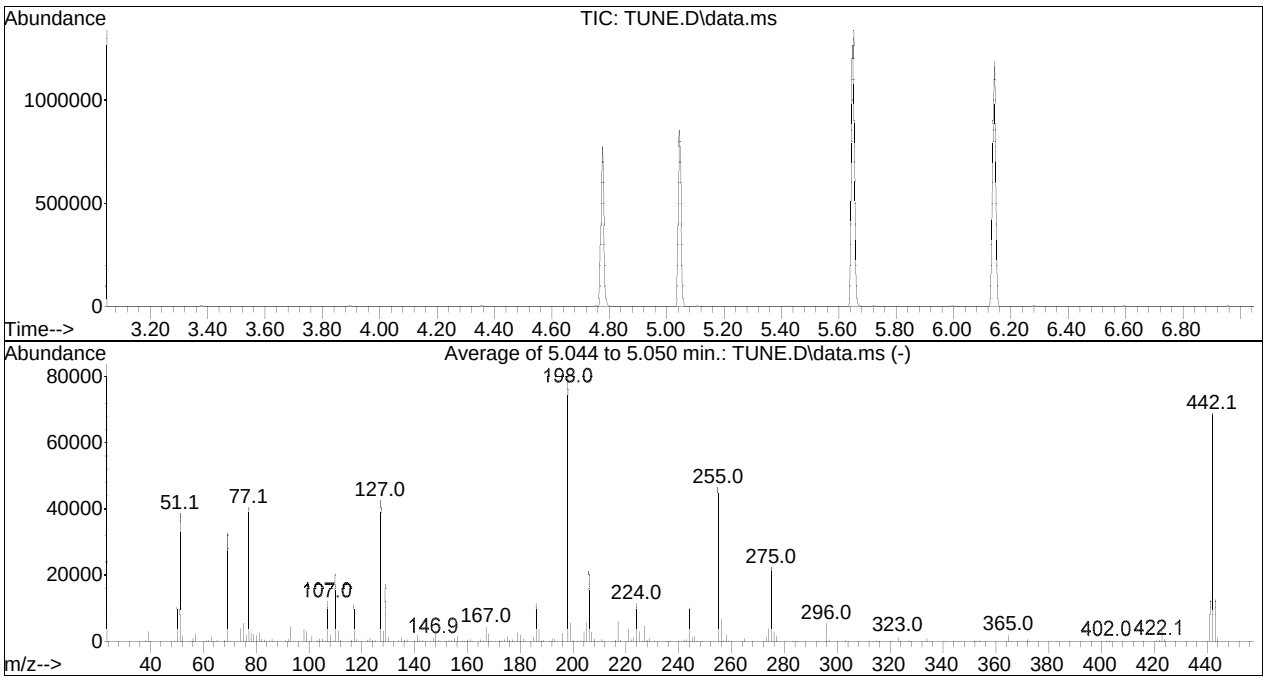
35)	T	bis(2-Ethylhexyl)phthalate				0.585	0.606	0.615	0.732	0.932	0.943	0.884	*L	0.9979
36)	i	Perylene-d12	ISTD											
37)	t	Benzo[b]fluora...	1.513	1.472	1.474	1.420	1.462	1.457	1.506	1.366	1.213	1.091	1.397	9.93
38)	t	Benzo[k]fluora...	1.429	1.404	1.420	1.430	1.443	1.413	1.377	1.233	1.133	0.987	1.327	11.80
39)	t	Benzo[a]pyrene	1.272	1.281	1.279	1.262	1.288	1.281	1.306	1.222	1.105	1.003	1.230	7.99
40)	t	Indeno[1,2,3-c...	1.404	1.377	1.411	1.365	1.409	1.420	1.423	1.301	1.150	1.109	1.337	8.64
41)	t	Dibenzo[a,h]anthracene	1.309	1.337	1.331	1.339	1.363	1.351	1.311	1.143	0.997	0.957	1.244	12.38
42)	t	Benzo[g,h,i]pe...	1.473	1.463	1.458	1.432	1.450	1.466	1.429	1.255	1.107	1.065	1.360	11.61

(#) = Out of Range

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : TUNE.D
Acq On : 07 Dec 2023 12:42 pm
Operator : sv119:dv
Sample : TUNE
Misc : WG1861379,,ical
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_230307n_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Dec 08 07:57:42 2023



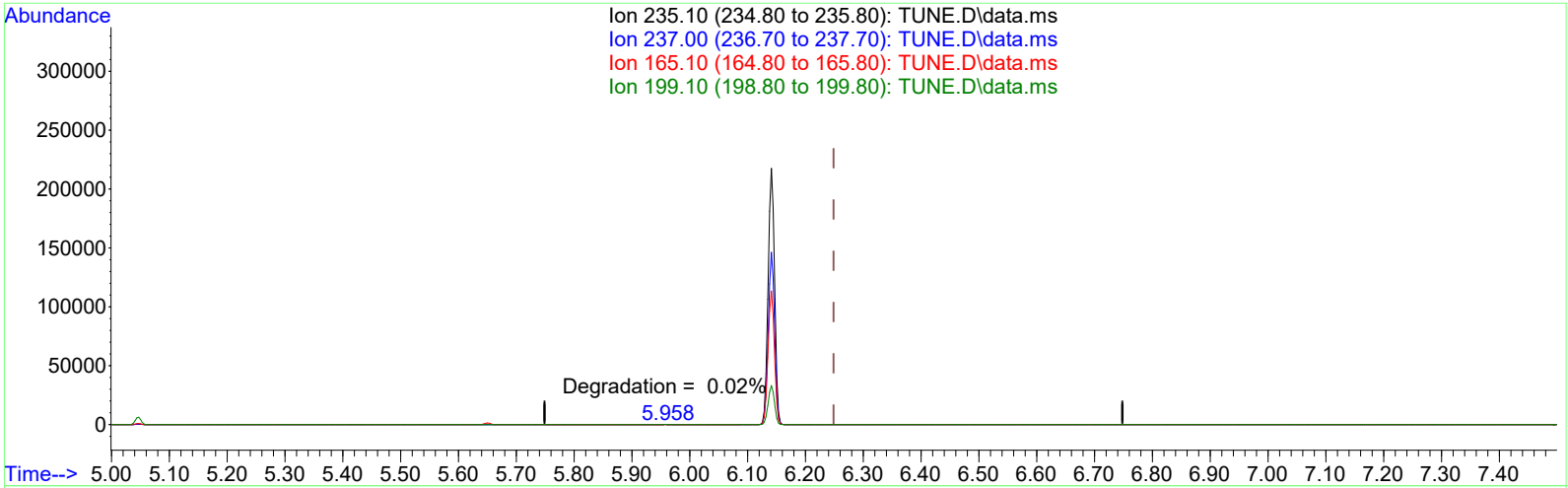
Spectrum Information: Average of 5.044 to 5.050 min.

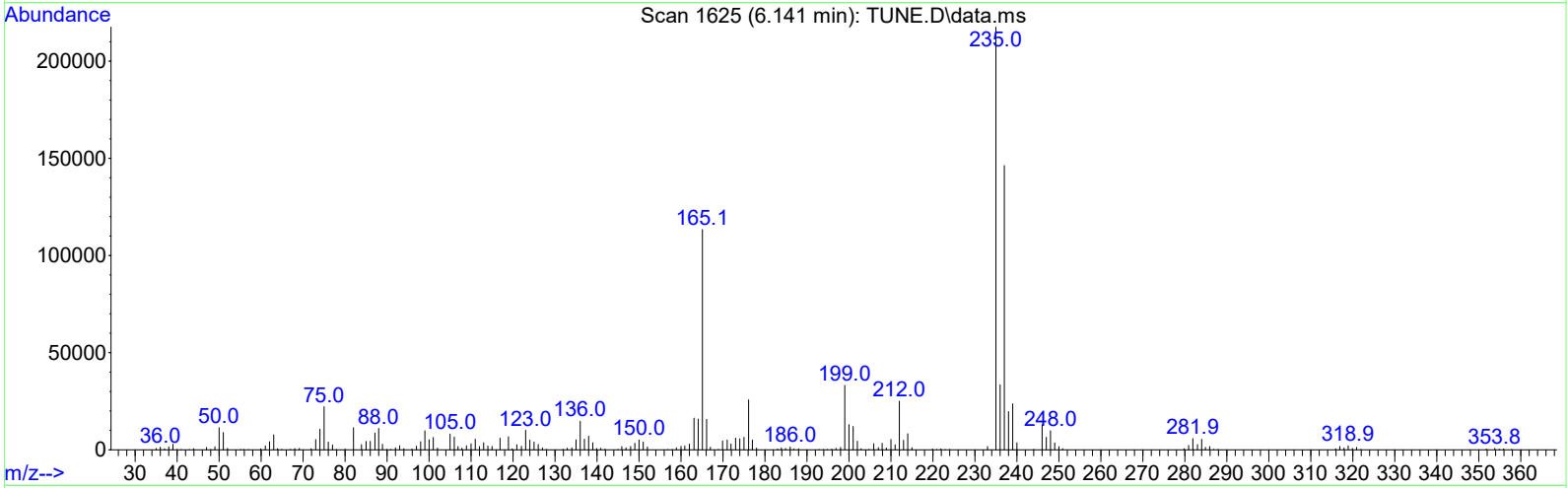
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	48.2	38435	PASS
68	69	0.00	2	1.5	504	PASS
69	69	100	100	100.0	32517	PASS
70	69	0.00	2	0.6	181	PASS
127	198	10	80	53.2	42363	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	79693	PASS
199	198	5	9	6.8	5457	PASS
275	198	10	60	27.9	22269	PASS
365	198	1	100	2.5	2011	PASS
441	442	0.01	24	18.2	12511	PASS
442	198	50	100	86.2	68669	PASS
443	442	15	24	18.7	12813	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : TUNE.D
Acq On : 07 Dec 2023 12:42 pm
Operator : sv119:dv
Sample : TUNE
Misc : WG1861379,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 07 17:48:24 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Oct 22 21:59:55 2023
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: TUNE.D\data.ms

(6) ddt (T)

6.141min (-0.108) 27.69

response 168780

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	66.10
165.10	53.30	51.32
199.10	17.10	14.92

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : TUNE.D
Acq On : 07 Dec 2023 12:42 pm
Operator : sv119:dv
Sample : TUNE
Misc : WG1861379,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 07 17:48:24 2023
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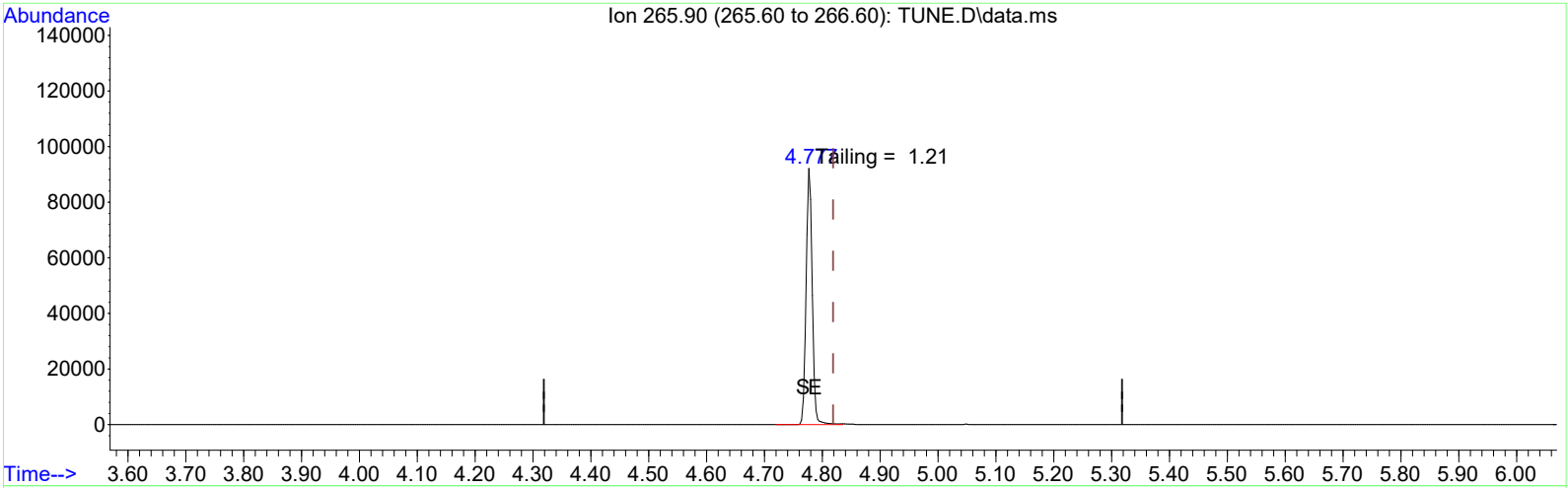
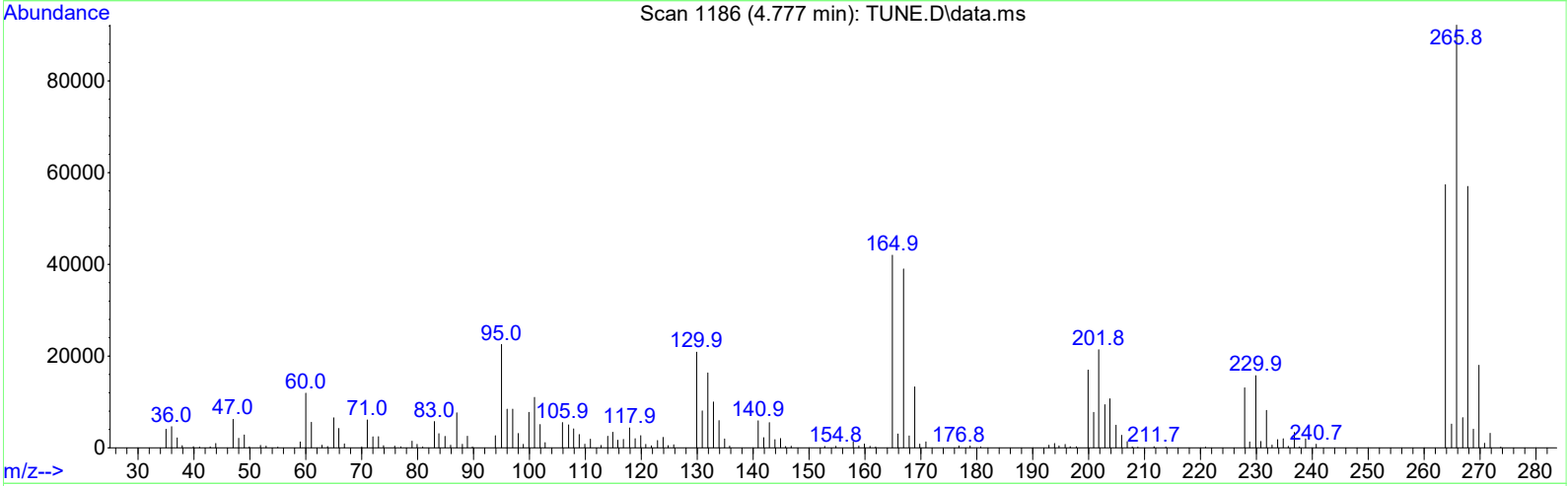
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Oct 22 21:59:55 2023
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: TUNE.D\data.ms

(1) pentachlorophenol (T)

4.777min (-0.042) 32.19

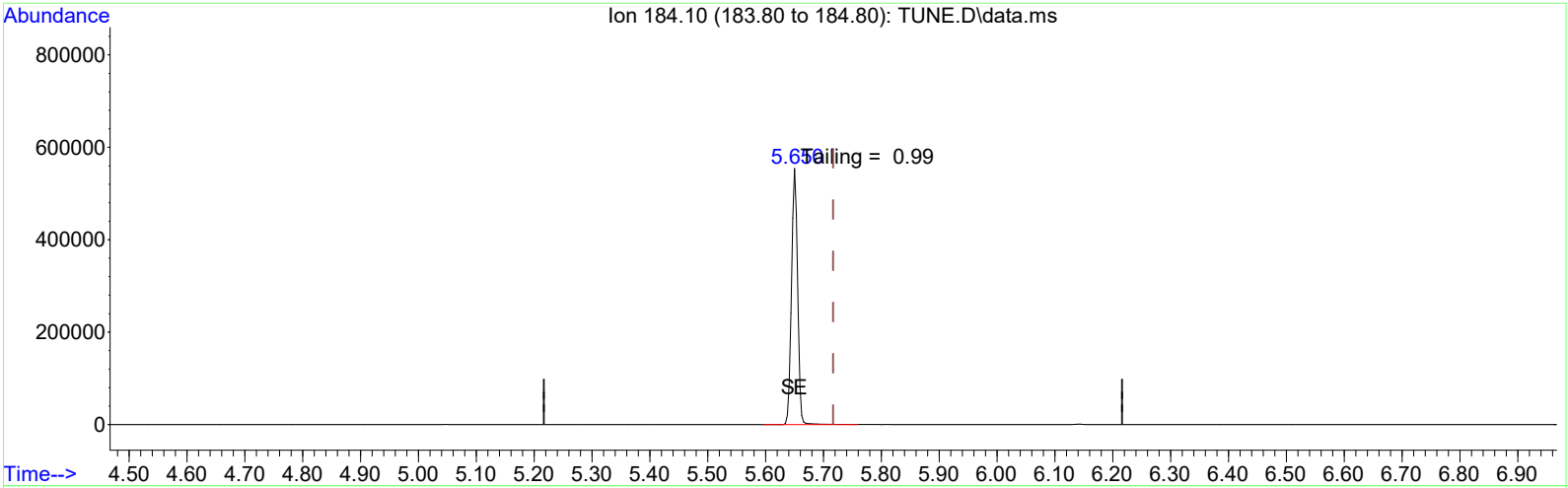
response 67620

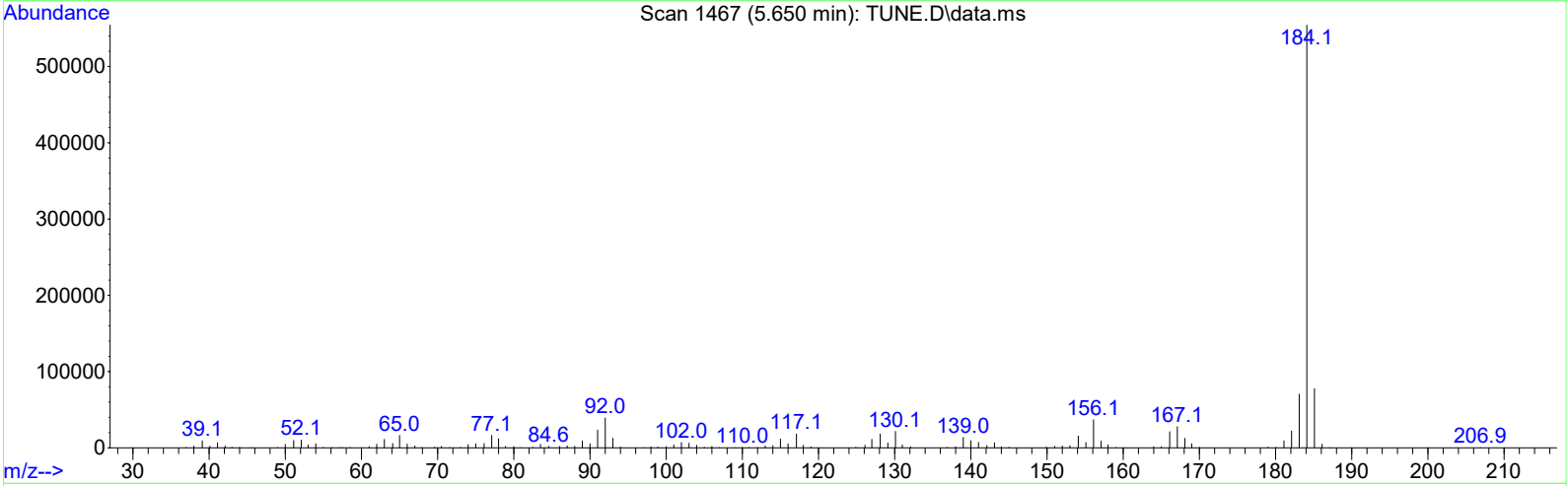
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : TUNE.D
Acq On : 07 Dec 2023 12:42 pm
Operator : sv119:dv
Sample : TUNE
Misc : WG1861379,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 07 17:48:24 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Oct 22 21:59:55 2023
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: TUNE.D\data.ms

(3) benzidine (T)

5.650min (-0.067) 40.09

response 408109

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL10.D
Acq On : 07 Dec 2023 01:10 pm
Operator : sv119:dv
Sample : IL10,32,,20 Lot#10186
Misc : WG1861379,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 08 14:08:01 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:32:05 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	2.169	152	40861	4000.000 ng/ml	#-0.01
Standard Area 1 = 44131			Recovery = 92.59%		
8) Naphthalene-d8	2.832	136	155973	4000.000 ng/ml	0.00
Standard Area 1 = 154719			Recovery = 100.81%		
17) Acenaphthene-d10	3.809	164	85515	4000.000 ng/ml	0.00
Standard Area 1 = 88793			Recovery = 96.31%		
22) Phenanthrene-d10	4.651	188	190707	4000.000 ng/ml	0.00
Standard Area 1 = 199383			Recovery = 95.65%		
31) Chrysene-d12	6.265	240	152241	4000.000 ng/ml	0.07
Standard Area 1 = 198085			Recovery = 76.86%		
36) Perylene-d12	7.440	264	191579	4000.000 ng/ml	0.07
Standard Area 1 = 214743			Recovery = 89.21%		
System Monitoring Compounds					
2) 2-Fluorophenol	1.567	112	186491	16686.494 ng/ml	-0.02
Spiked Amount 5000.000	Range 15 - 110		Recovery = 333.73%#		
3) Phenol-d6	1.980	99	250730	18715.673 ng/ml	-0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 374.31%#		
7) Nitrobenzene-d5	2.450	82	192700	18962.762 ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 758.51%#		
13) 2-Fluorobiphenyl	3.431	172	473158	13582.911 ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 543.32%#		
21) 2,4,6-Tribromophenol	4.257	330	92508	19621.690 ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 392.43%#		
30) 4-Terphenyl-d14	5.604	244	617330	13204.624 ng/ml	0.04
Spiked Amount 2500.000	Range 30 - 130		Recovery = 528.18%#		
Target Compounds					Qvalue
4) Bis(2-chloroethyl)ether	2.032	93	185151	16251.060 ng/ml	95
5) n-nitrosodi-n-propylamine	2.372	70	146273	21466.364 ng/ml#	89
6) Hexachloroethane	2.428	117	89168	17640.327 ng/ml	93
9) Naphthalene	2.845	128	600216	16116.112 ng/ml	99
10) Hexachlorobutadiene	2.919	225	127793	15933.038 ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL10.D
Acq On : 07 Dec 2023 01:10 pm
Operator : sv119:dv
Sample : IL10,32,,20 Lot#10186
Misc : WG1861379,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 08 14:08:01 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:32:05 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
11) 2-Methylnaphthalene	3.225	142	425843	15464.273	ng/ml	95
12) 1-Methylnaphthalene	3.280	142	382653	15068.836	ng/ml	95
14) 2-Chloronaphthalene	3.496	162	441476	15050.592	ng/ml	98
15) 2,6-Dinitrotoluene	3.694	165	124084M4	18733.772	ng/ml	
16) Acenaphthylene	3.729	152	680215	15604.767	ng/ml	100
18) Acenaphthene	3.829	153	438420	16583.890	ng/ml	95
19) 2,4-Dinitrotoluene	3.921	165	166968	21183.449	ng/ml#	78
20) Fluorene	4.121	166	514064	16267.952	ng/ml	94
23) 4,6-Dinitro-o-cresol	4.153	198	112715	19617.410	ng/ml	93
24) Hexachlorobenzene	4.438	284	193903	15727.699	ng/ml	100
25) Pentachlorophenol	4.546	266	153186	19424.139	ng/ml	99
26) Phenanthrene	4.667	178	777282	16045.326	ng/ml	97
27) Anthracene	4.696	178	776770	16169.550	ng/ml	97
28) Fluoranthene	5.365	202	929267M6	14550.037	ng/ml	
29) Pyrene	5.501	202	936284	14274.318	ng/ml	100
32) Benzo[a]anthracene	6.259	228	966512	19121.130	ng/ml	97
33) 3,3'-Dichlorobenzidine	6.250	252	470850	20471.402	ng/ml	98
34) Chrysene	6.285	228	922604	18362.002	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.295	149	673097	19560.689	ng/ml	94
37) Benzo[b]fluoranthene	7.091	252	1045462	15620.402	ng/ml	96
38) Benzo[k]fluoranthene	7.117	252	945582M3	14878.547	ng/ml	
39) Benzo[a]pyrene	7.389	252	960572	16305.121	ng/ml	96
40) Indeno[1,2,3-cd]pyrene	8.629	276	1062548	16595.151	ng/ml	97
41) Dibenzo[a,h]anthracene	8.665	278	916705M6	15388.442	ng/ml	
42) Benzo[g,h,i]perylene	8.961	276	1020547	15670.008	ng/ml	95

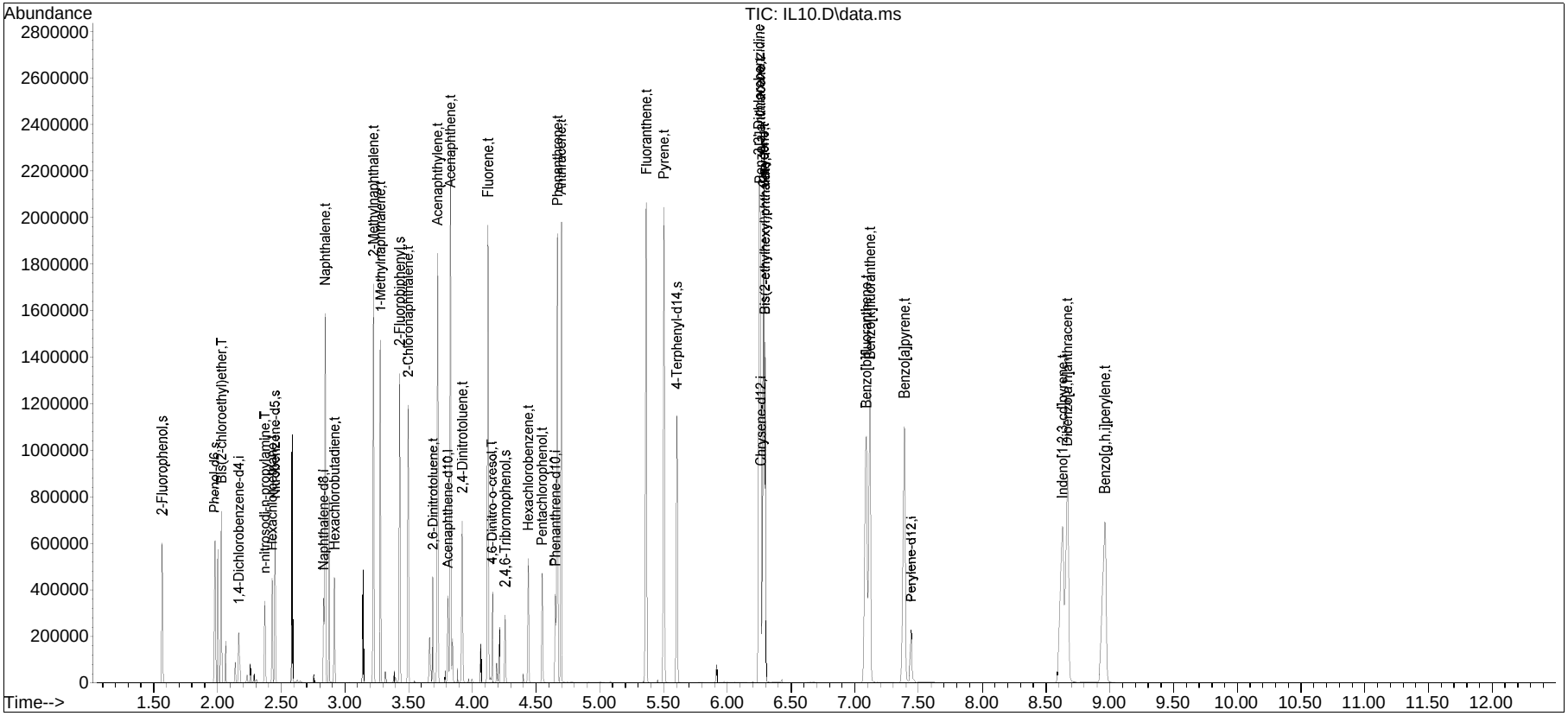
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL10.D
Acq On : 07 Dec 2023 01:10 pm
Operator : sv119:dv
Sample : IL10,32,,20 Lot#10186
Misc : WG1861379,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 08 14:08:01 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:32:05 2023
Response via : Initial Calibration

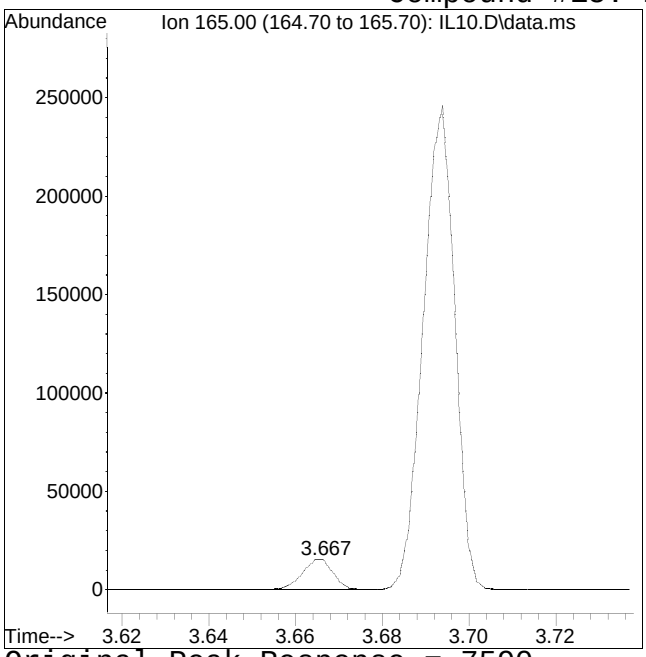
Sub List : Default - All compounds listedIical\IL7.D•



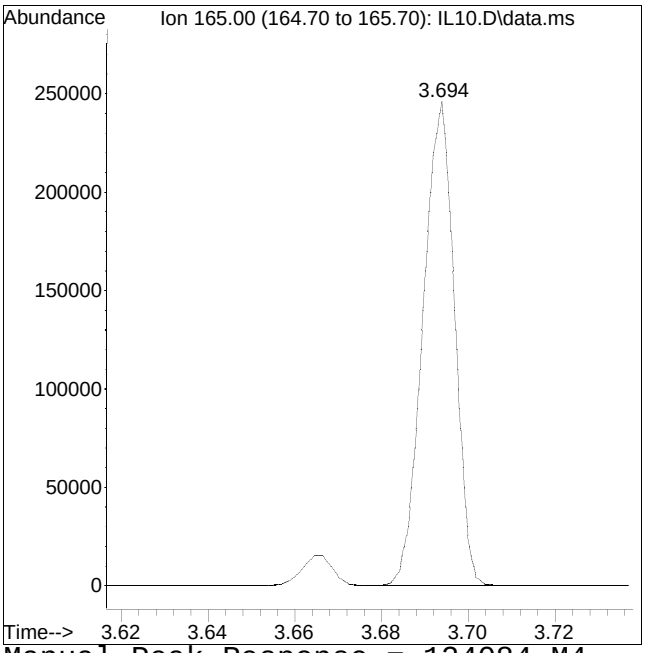
Manual Integration Report

Data Path : I:\8270SIM\sv119\231207nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : IL10.D Operator : sv119:dv
Date Inj'd : 12/7/2023 1:10 pm Instrument : SV119
Sample : IL10,32,,20 Lot#10186 Quant Date : 12/8/2023 1:32 pm

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 7590



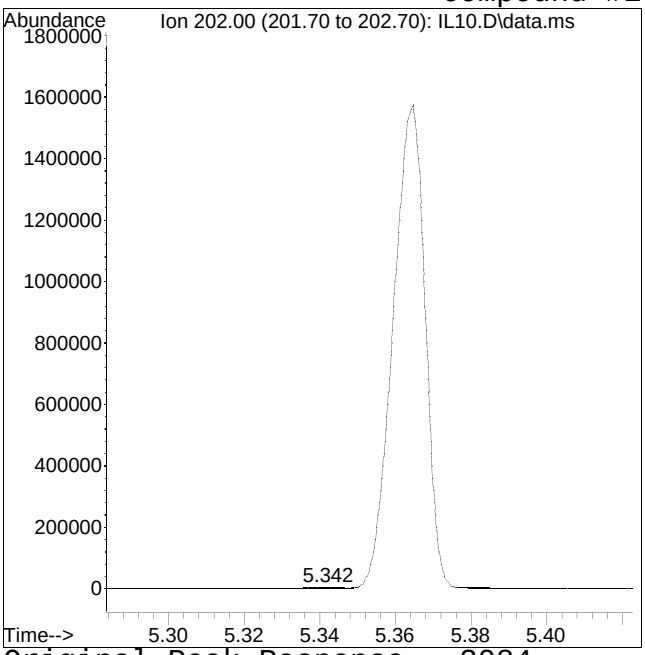
Manual Peak Response = 124084 M4

M4 = Poor automated baseline construction.

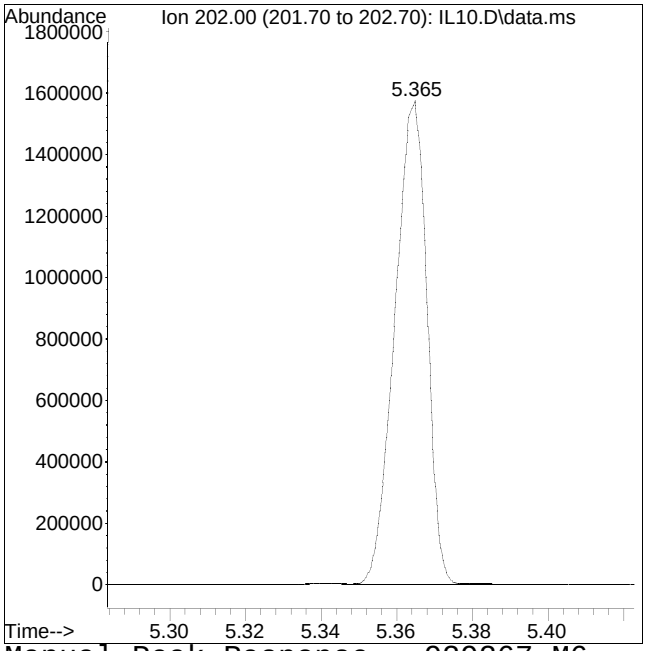
Manual Integration Report

Data Path : I:\8270SIM\sv119\231207nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : IL10.D Operator : sv119:dv
Date Inj'd : 12/7/2023 1:10 pm Instrument : SV119
Sample : IL10,32,,20 Lot#10186 Quant Date : 12/8/2023 1:32 pm

Compound #28: Fluoranthene



Original Peak Response = 3084



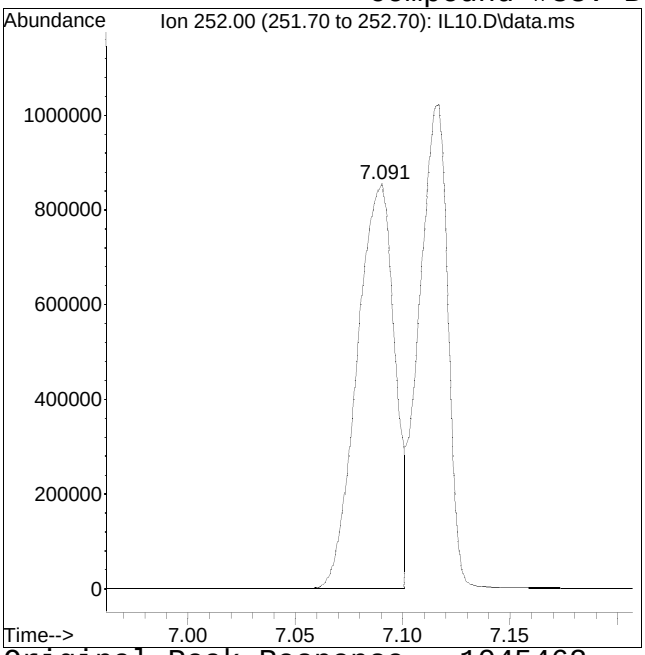
Manual Peak Response = 929267 M6

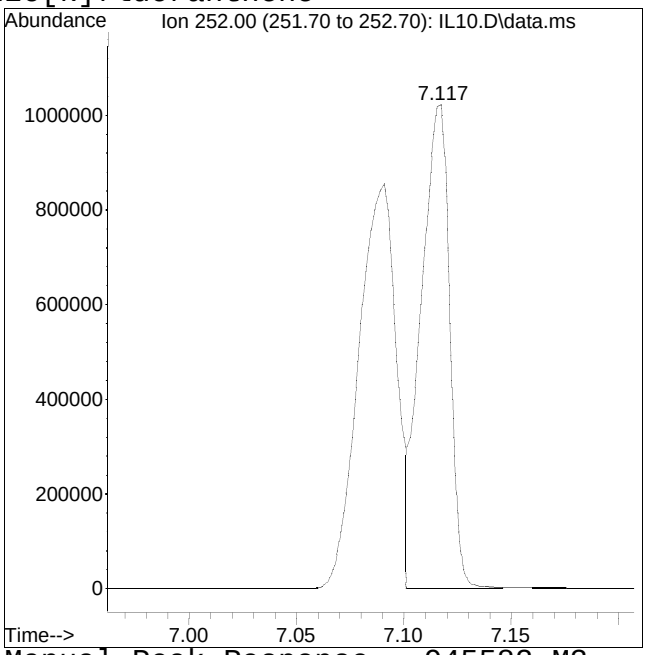
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv119\231207nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : IL10.D Operator : sv119:dv
Date Inj'd : 12/7/2023 1:10 pm Instrument : SV119
Sample : IL10,32,,20 Lot#10186 Quant Date : 12/8/2023 1:32 pm

Compound #38: Benzo[k]fluoranthene



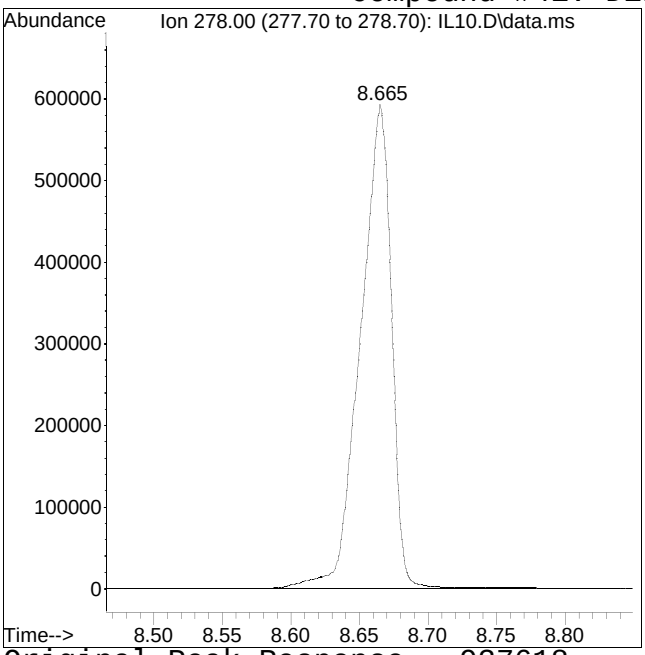


Original Peak Response = 1045462 Manual Peak Response = 945582 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

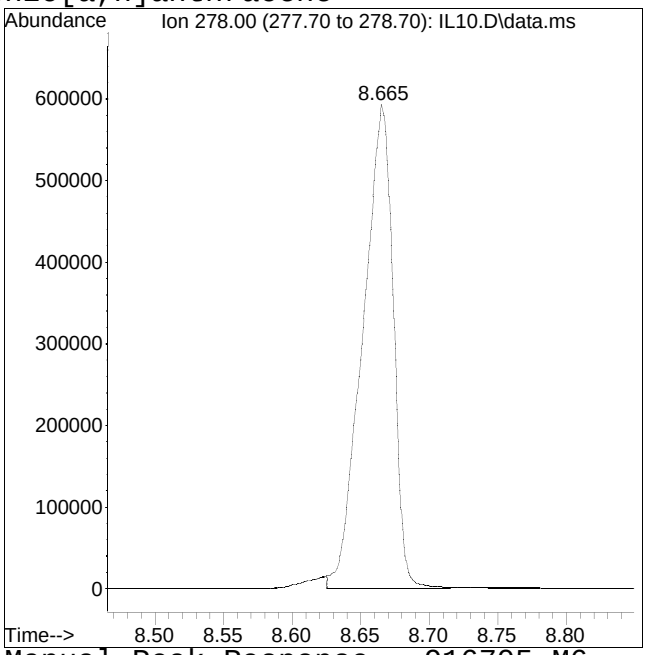
Manual Integration Report

Data Path : I:\8270SIM\sv119\231207nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : IL10.D Operator : sv119:dv
Date Inj'd : 12/7/2023 1:10 pm Instrument : SV119
Sample : IL10,32,,20 Lot#10186 Quant Date : 12/8/2023 1:32 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 937618



Manual Peak Response = 916705 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL9.D
Acq On : 07 Dec 2023 01:27 pm
Operator : sv119:dv
Sample : IL9,32,,10 Lot#10227
Misc : WG1861379,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 08 13:36:23 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:36:28 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.181	152	43469	4000.000	ng/ml	0.00
Standard Area 1 = 44131			Recovery = 98.50%			
8) Naphthalene-d8	2.841	136	167563	4000.000	ng/ml	0.00
Standard Area 1 = 154719			Recovery = 108.30%			
17) Acenaphthene-d10	3.810	164	95878	4000.000	ng/ml	0.00
Standard Area 1 = 88793			Recovery = 107.98%			
22) Phenanthrene-d10	4.648	188	219561	4000.000	ng/ml	0.00
Standard Area 1 = 199383			Recovery = 110.12%			
31) Chrysene-d12	6.211	240	183655	4000.000	ng/ml	0.01
Standard Area 1 = 198085			Recovery = 92.72%			
36) Perylene-d12	7.380	264	212358	4000.000	ng/ml	0.01
Standard Area 1 = 214743			Recovery = 98.89%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.583	112	107742	9061.949	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 181.24%#			
3) Phenol-d6	1.991	99	140242	9840.260	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 196.81%#			
7) Nitrobenzene-d5	2.459	82	110881	10256.669	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 410.27%#			
13) 2-Fluorobiphenyl	3.433	172	298612	7979.308	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 319.17%#			
21) 2,4,6-Tribromophenol	4.255	330	57671	10910.331	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 218.21%#			
30) 4-Terphenyl-d14	5.573	244	410542	7627.421	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 305.10%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.043	93	106309	8771.119	ng/ml	96
5) n-nitrosodi-n-propylamine	2.380	70	82666	11403.826	ng/ml#	89
6) Hexachloroethane	2.438	117	51193	9520.013	ng/ml	92
9) Naphthalene	2.851	128	355672	8889.425	ng/ml	99
10) Hexachlorobutadiene	2.926	225	75668	8781.629	ng/ml	100
11) 2-Methylnaphthalene	3.229	142	258724	8745.568	ng/ml	96
12) 1-Methylnaphthalene	3.283	142	231827	8497.866	ng/ml	96
14) 2-Chloronaphthalene	3.498	162	270055	8569.787	ng/ml	97
15) 2,6-Dinitrotoluene	3.693	165	76081	10691.951	ng/ml#	77

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL9.D
Acq On : 07 Dec 2023 01:27 pm
Operator : sv119:dv
Sample : IL9,32,,10 Lot#10227
Misc : WG1861379,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 08 13:36:23 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:36:28 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
16) Acenaphthylene	3.730	152	424720	9069.536 ng/ml	100
18) Acenaphthene	3.828	153	271474	9158.991 ng/ml	96
19) 2,4-Dinitrotoluene	3.920	165	103349	11694.806 ng/ml#	78
20) Fluorene	4.118	166	323294	9125.080 ng/ml	95
23) 4,6-Dinitro-o-cresol	4.149	198	67527	10230.031 ng/ml	91
24) Hexachlorobenzene	4.435	284	123915	8730.035 ng/ml	99
25) Pentachlorophenol	4.543	266	93745	10330.247 ng/ml	99
26) Phenanthrene	4.662	178	495220	8879.317 ng/ml	98
27) Anthracene	4.689	178	500661	9052.337 ng/ml	98
28) Fluoranthene	5.344	202	611510	8316.461 ng/ml	96
29) Pyrene	5.475	202	608403	8056.577 ng/ml	99
32) Benzo[a]anthracene	6.205	228	625915	10259.834 ng/ml	98
33) 3,3'-Dichlorobenzidine	6.194	252	304841	10986.700 ng/ml	99
34) Chrysene	6.228	228	595338	9821.938 ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.239	149	433194	10450.769 ng/ml	96
37) Benzo[b]fluoranthene	7.027	252	644077	8681.625 ng/ml	96
38) Benzo[k]fluoranthene	7.053	252	601617	8540.056 ng/ml	99
39) Benzo[a]pyrene	7.325	252	586685	8984.178 ng/ml	97
40) Indeno[1,2,3-cd]pyrene	8.561	276	610407	8600.653 ng/ml	96
41) Dibenzo[a,h]anthracene	8.597	278	529204M6	8014.334 ng/ml	
42) Benzo[g,h,i]perylene	8.891	276	587668	8140.433 ng/ml	94

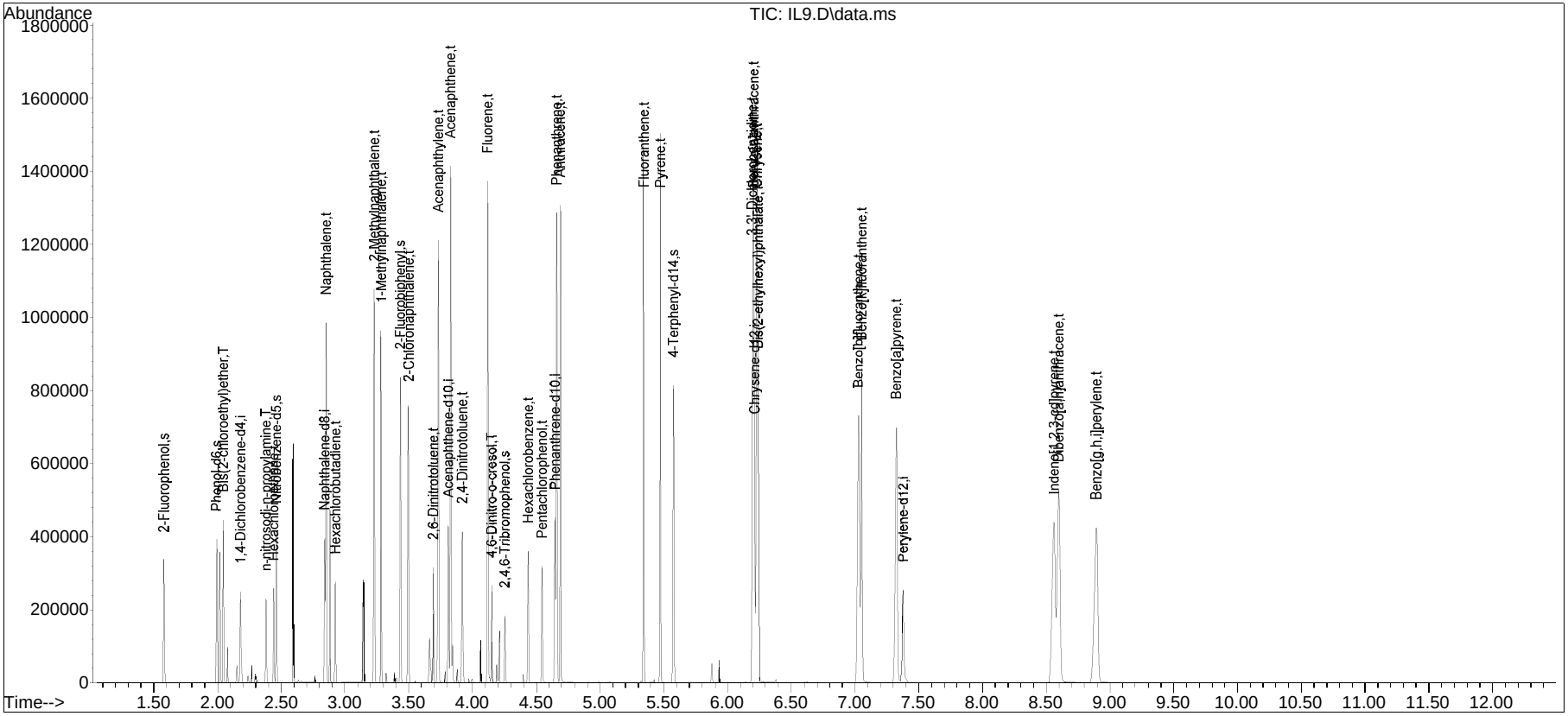
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL9.D
Acq On : 07 Dec 2023 01:27 pm
Operator : sv119:dv
Sample : IL9,32,,10 Lot#10227
Misc : WG1861379,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 08 13:36:23 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:36:28 2023
Response via : Initial Calibration

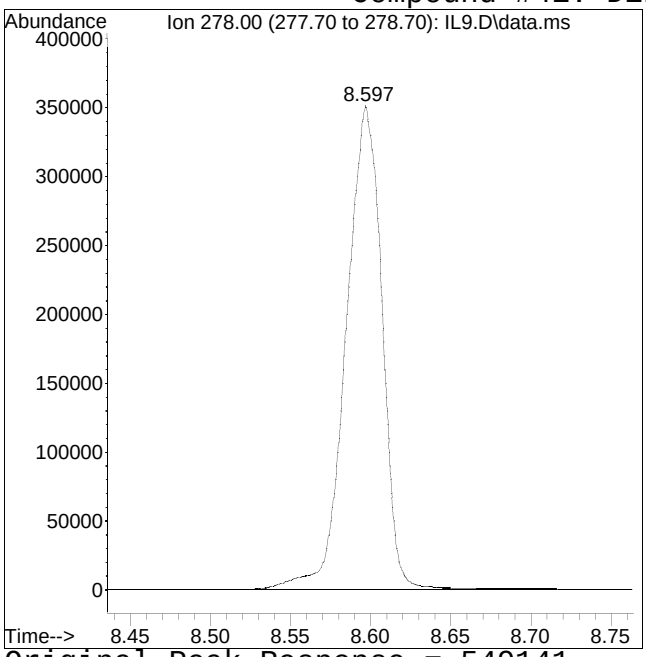
Sub List : Default - All compounds listedIical\IL7.D•



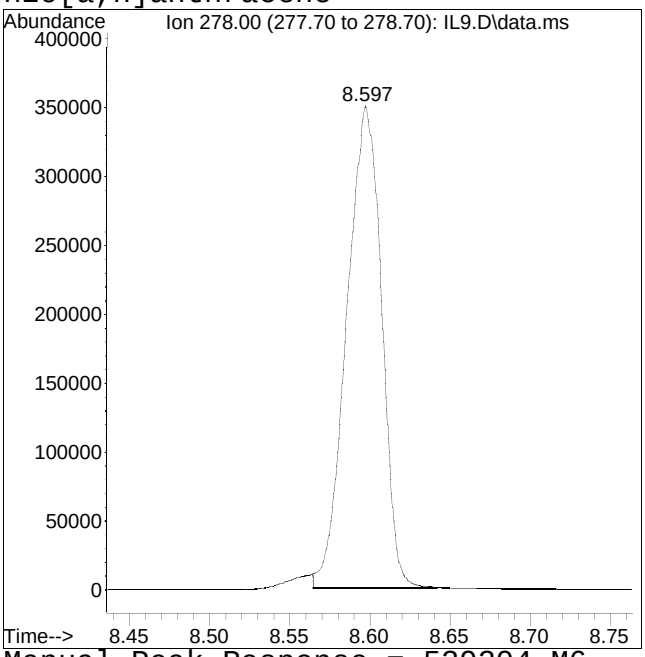
Manual Integration Report

Data Path : I:\8270SIM\sv119\231207nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : IL9.D Operator : sv119:dv
Date Inj'd : 12/7/2023 1:27 pm Instrument : SV119
Sample : IL9,32,,10 Lot#10227 Quant Date : 12/8/2023 1:36 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 549141



Manual Peak Response = 529204 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL8.D
Acq On : 07 Dec 2023 01:46 pm
Operator : sv119:dv
Sample : IL8,32,,5 Lot#10228
Misc : WG1861379,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 08 13:36:06 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:36:12 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.175	152	45223	4000.000	ng/ml	0.00
Standard Area 1 = 44131			Recovery = 102.47%			
8) Naphthalene-d8	2.834	136	168691	4000.000	ng/ml	0.00
Standard Area 1 = 154719			Recovery = 109.03%			
17) Acenaphthene-d10	3.807	164	96018	4000.000	ng/ml	0.00
Standard Area 1 = 88793			Recovery = 108.14%			
22) Phenanthrene-d10	4.645	188	214713	4000.000	ng/ml	0.00
Standard Area 1 = 199383			Recovery = 107.69%			
31) Chrysene-d12	6.222	240	183329	4000.000	ng/ml	0.02
Standard Area 1 = 198085			Recovery = 92.55%			
36) Perylene-d12	7.391	264	211224	4000.000	ng/ml	0.02
Standard Area 1 = 214743			Recovery = 98.36%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.575	112	62387	5043.720	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 100.87%			
3) Phenol-d6	1.982	99	76953	5190.083	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 103.80%			
7) Nitrobenzene-d5	2.452	82	60459	5375.644	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 215.03%#			
13) 2-Fluorobiphenyl	3.431	172	170356	4521.699	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 180.87%#			
21) 2,4,6-Tribromophenol	4.250	330	30337	5730.855	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 114.62%#			
30) 4-Terphenyl-d14	5.579	244	226214	4297.703	ng/ml	0.01
Spiked Amount 2500.000	Range 30 - 130		Recovery = 171.91%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.037	93	59640	4729.801	ng/ml	96
5) n-nitrosodi-n-propylamine	2.373	70	43424	5758.028	ng/ml#	89
6) Hexachloroethane	2.433	117	28289	5056.673	ng/ml	91
9) Naphthalene	2.845	128	196627	4881.501	ng/ml	100
10) Hexachlorobutadiene	2.921	225	41895	4829.601	ng/ml	100
11) 2-Methylnaphthalene	3.224	142	145094	4871.772	ng/ml	97
12) 1-Methylnaphthalene	3.280	142	128641	4683.942	ng/ml	97
14) 2-Chloronaphthalene	3.494	162	148988	4696.294	ng/ml	96
15) 2,6-Dinitrotoluene	3.688	165	40127	5601.491	ng/ml#	76
16) Acenaphthylene	3.727	152	234925	4983.080	ng/ml	100
18) Acenaphthene	3.825	153	148307	4996.287	ng/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL8.D
Acq On : 07 Dec 2023 01:46 pm
Operator : sv119:dv
Sample : IL8,32,,5 Lot#10228
Misc : WG1861379,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 08 13:36:06 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:36:12 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.915	165	53966	6097.802	ng/ml#	78
20) Fluorene	4.114	166	178798	5039.274	ng/ml	97
23) 4,6-Dinitro-o-cresol	4.143	198	33622	5230.937	ng/ml	91
24) Hexachlorobenzene	4.432	284	68110	4906.817	ng/ml	98
25) Pentachlorophenol	4.542	266	47244	5329.229	ng/ml	100
26) Phenanthrene	4.659	178	269467	4940.647	ng/ml	99
27) Anthracene	4.686	178	272423	5036.833	ng/ml	99
28) Fluoranthene	5.345	202	337208	4689.535	ng/ml	96
29) Pyrene	5.479	202	335005	4536.358	ng/ml	99
32) Benzo[a]anthracene	6.216	228	335541	5504.916	ng/ml	99
33) 3,3'-Dichlorobenzidine	6.205	252	159144	5745.869	ng/ml	99
34) Chrysene	6.240	228	314746	5201.941	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.252	149	213688	5180.811	ng/ml	97
37) Benzo[b]fluoranthene	7.040	252	360629	4887.078	ng/ml	98
38) Benzo[k]fluoranthene	7.062	252	325647	4647.432	ng/ml	98
39) Benzo[a]pyrene	7.336	252	322721	4968.508	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.568	276	343512	4866.080	ng/ml	95
41) Dibenzo[a,h]anthracene	8.606	278	301778	4594.701	ng/ml	96
42) Benzo[g,h,i]perylene	8.899	276	331306	4613.921	ng/ml	94

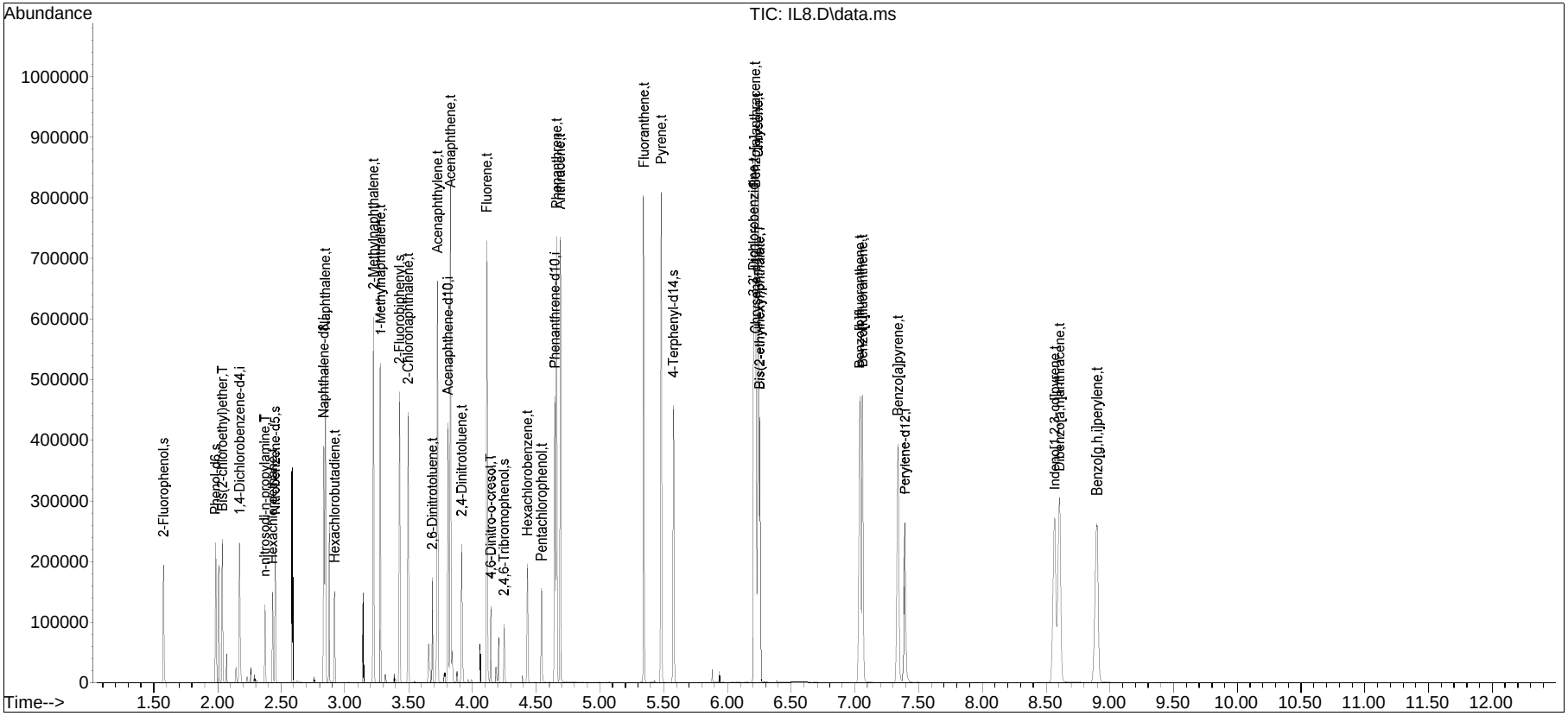
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL8.D
Acq On : 07 Dec 2023 01:46 pm
Operator : sv119:dv
Sample : IL8,32,,5 Lot#10228
Misc : WG1861379,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 08 13:36:06 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:36:12 2023
Response via : Initial Calibration

Sub List : Default - All compounds listedIical\IL7.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv119\231207nLVQ	Method	: SIM-LVI_231207n_sv119.M
Data File	: IL8.D	Operator	: sv119:dv
Date Inj'd	: 12/7/2023 1:46 pm	Instrument	: SV119
Sample	: IL8,32,,5 Lot#10228	Quant Date	: 12/8/2023 1:36 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL7.D
Acq On : 07 Dec 2023 02:03 pm
Operator : sv119:dv
Sample : IL7,32,,1 Lot#10229
Misc : WG1861379,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 08 13:35:39 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:35:44 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.180	152	44131	4000.000	ng/ml	0.00
Standard Area 1 = 44131			Recovery = 100.00%			
8) Naphthalene-d8	2.839	136	154719	4000.000	ng/ml	0.00
Standard Area 1 = 154719			Recovery = 100.00%			
17) Acenaphthene-d10	3.808	164	88793	4000.000	ng/ml	0.00
Standard Area 1 = 88793			Recovery = 100.00%			
22) Phenanthrene-d10	4.643	188	199383	4000.000	ng/ml	0.00
Standard Area 1 = 199383			Recovery = 100.00%			
31) Chrysene-d12	6.199	240	198085	4000.000	ng/ml	0.00
Standard Area 1 = 198085			Recovery = 100.00%			
36) Perylene-d12	7.367	264	214743	4000.000	ng/ml	0.00
Standard Area 1 = 214743			Recovery = 100.00%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.584	112	13052	1081.308	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 21.63%			
3) Phenol-d6	1.991	99	14828	1024.818	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 20.50%			
7) Nitrobenzene-d5	2.459	82	11630	1059.656	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 42.39%			
13) 2-Fluorobiphenyl	3.433	172	36191	1047.353	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 41.89%			
21) 2,4,6-Tribromophenol	4.251	330	5316	1085.940	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 21.72%			
30) 4-Terphenyl-d14	5.566	244	50636	1035.969	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 41.44%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.046	93	12434	1010.489	ng/ml	96
5) n-nitrosodi-n-propylamine	2.380	70	7670	1042.209	ng/ml#	90
6) Hexachloroethane	2.439	117	5556	1017.712	ng/ml	90
9) Naphthalene	2.850	128	38622	1045.426	ng/ml	100
10) Hexachlorobutadiene	2.924	225	8393	1054.908	ng/ml	100
11) 2-Methylnaphthalene	3.227	142	28982	1060.997	ng/ml	99
12) 1-Methylnaphthalene	3.282	142	26185	1039.520	ng/ml	99
14) 2-Chloronaphthalene	3.496	162	29915	1028.114	ng/ml	97
15) 2,6-Dinitrotoluene	3.688	165	6741	1025.982	ng/ml#	79
16) Acenaphthylene	3.727	152	45948	1062.633	ng/ml	100
18) Acenaphthene	3.825	153	29003	1056.580	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL7.D
Acq On : 07 Dec 2023 02:03 pm
Operator : sv119:dv
Sample : IL7,32,,1 Lot#10229
Misc : WG1861379,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 08 13:35:39 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:35:44 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.915	165	8924	1090.402	ng/ml#	79
20) Fluorene	4.114	166	35110	1070.065	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.142	198	5322	929.435	ng/ml	93
24) Hexachlorobenzene	4.430	284	13522	1049.059	ng/ml	97
25) Pentachlorophenol	4.540	266	7782	954.860	ng/ml	100
26) Phenanthrene	4.657	178	53179	1049.998	ng/ml	100
27) Anthracene	4.685	178	53215	1059.542	ng/ml	100
28) Fluoranthene	5.338	202	71129	1065.243	ng/ml	95
29) Pyrene	5.468	202	71713	1045.741	ng/ml	99
32) Benzo[a]anthracene	6.190	228	73568	1108.505	ng/ml	100
33) 3,3'-Dichlorobenzidine	6.180	252	30996	1035.740	ng/ml	99
34) Chrysene	6.214	228	67585	1033.797	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.229	149	36273	841.310	ng/ml	97
37) Benzo[b]fluoranthene	7.009	252	80852	1077.714	ng/ml	99
38) Benzo[k]fluoranthene	7.031	252	73945	1038.004	ng/ml	100
39) Benzo[a]pyrene	7.305	252	70119	1061.839	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.538	276	76383	1064.286	ng/ml	95
41) Dibenzo[a,h]anthracene	8.574	278	70388M6	1054.126	ng/ml	
42) Benzo[g,h,i]perylene	8.861	276	76727	1051.026	ng/ml	94

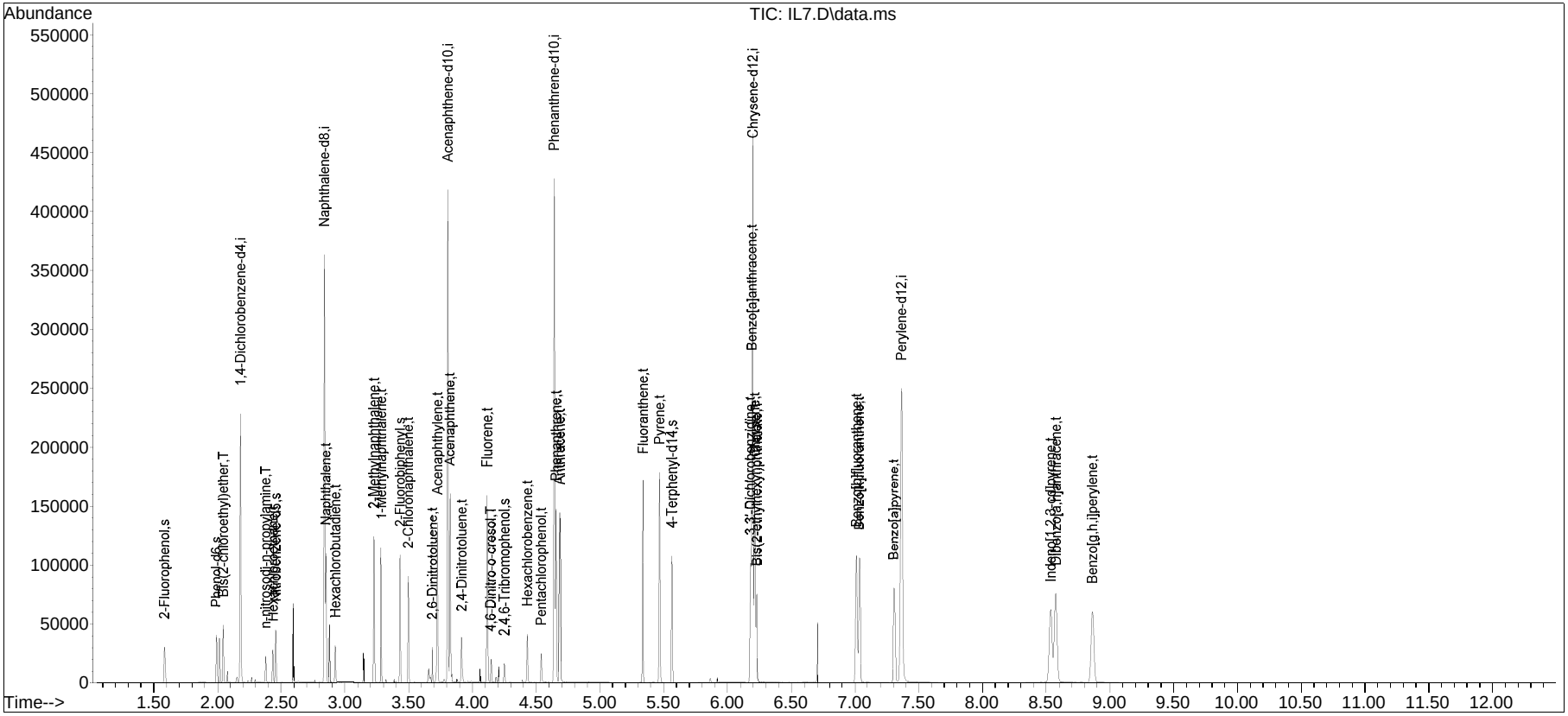
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL7.D
Acq On : 07 Dec 2023 02:03 pm
Operator : sv119:dv
Sample : IL7,32,,1 Lot#10229
Misc : WG1861379,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 08 13:35:39 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:35:44 2023
Response via : Initial Calibration

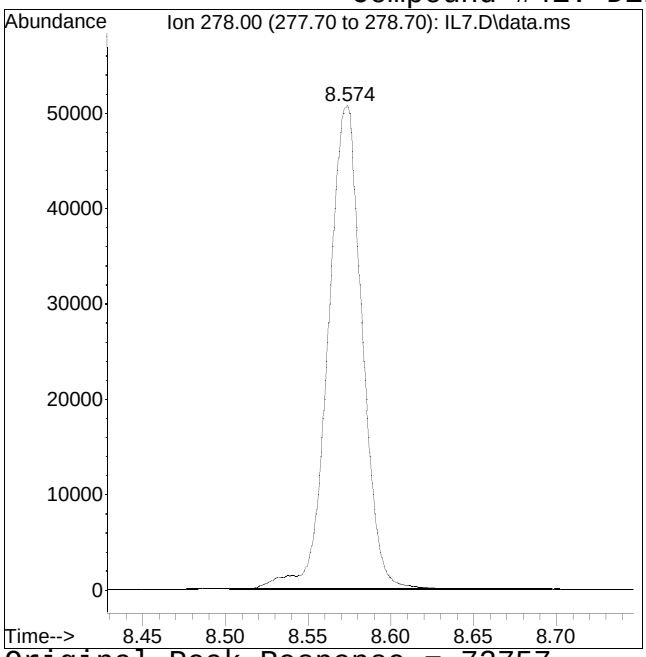
Sub List : Default - All compounds listedIical\IL7.D•



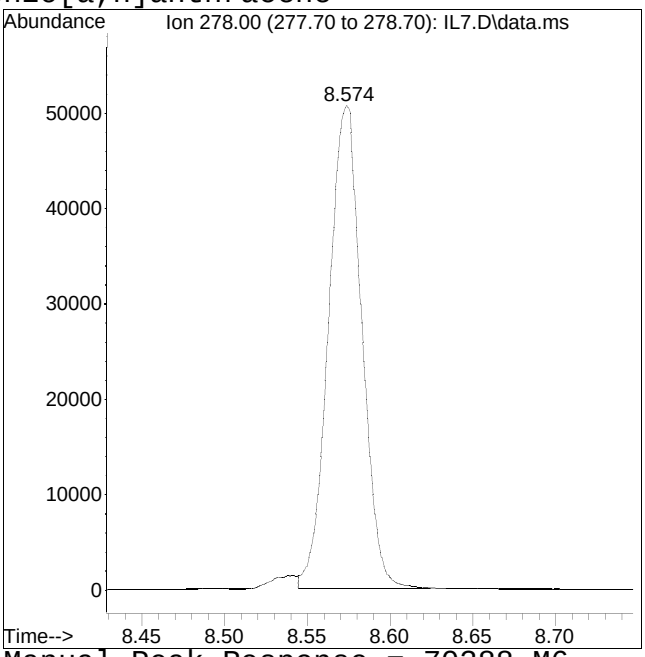
Manual Integration Report

Data Path : I:\8270SIM\sv119\231207nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : IL7.D Operator : sv119:dv
Date Inj'd : 12/7/2023 2:03 pm Instrument : SV119
Sample : IL7,32,,1 Lot#10229 Quant Date : 12/8/2023 1:35 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 72757



Manual Peak Response = 70388 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL6.D
Acq On : 07 Dec 2023 02:20 pm
Operator : sv119:dv
Sample : IL6,32,,0.25 Lot#10230
Misc : WG1861379,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 08 13:35:27 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:35:32 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.183	152	44082	4000.000	ng/ml	0.00
Standard Area 1 = 44131			Recovery = 99.89%			
8) Naphthalene-d8	2.839	136	149961	4000.000	ng/ml	0.00
Standard Area 1 = 154719			Recovery = 96.92%			
17) Acenaphthene-d10	3.807	164	86556	4000.000	ng/ml	0.00
Standard Area 1 = 88793			Recovery = 97.48%			
22) Phenanthrene-d10	4.643	188	191611	4000.000	ng/ml	0.00
Standard Area 1 = 199383			Recovery = 96.10%			
31) Chrysene-d12	6.197	240	198571	4000.000	ng/ml	0.00
Standard Area 1 = 198085			Recovery = 100.25%			
36) Perylene-d12	7.367	264	212398	4000.000	ng/ml	0.00
Standard Area 1 = 214743			Recovery = 98.91%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.588	112	3179	263.661	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 5.27%#			
3) Phenol-d6	1.991	99	3632	251.300	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 5.03%#			
7) Nitrobenzene-d5	2.460	82	2758	251.572	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 10.06%#			
13) 2-Fluorobiphenyl	3.433	172	8986	268.302	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 10.73%#			
21) 2,4,6-Tribromophenol	4.251	330	1156	242.248	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 4.84%#			
30) 4-Terphenyl-d14	5.566	244	12569	267.581	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 10.70%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.048	93	3117	253.595	ng/ml	95
5) n-nitrosodi-n-propylamine	2.383	70	1743	237.104	ng/ml#	89
6) Hexachloroethane	2.441	117	1323	242.608	ng/ml	90
9) Naphthalene	2.850	128	9306	259.888	ng/ml	100
10) Hexachlorobutadiene	2.925	225	2010	260.651	ng/ml	99
11) 2-Methylnaphthalene	3.229	142	6950	262.504	ng/ml	100
12) 1-Methylnaphthalene	3.282	142	6433	263.487	ng/ml	99
14) 2-Chloronaphthalene	3.496	162	7386	261.895	ng/ml	97
15) 2,6-Dinitrotoluene	3.688	165	1533	240.726	ng/ml#	80
16) Acenaphthylene	3.725	152	10901	260.105	ng/ml	100
18) Acenaphthene	3.825	153	6960	260.106	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL6.D
Acq On : 07 Dec 2023 02:20 pm
Operator : sv119:dv
Sample : IL6,32,,0.25 Lot#10230
Misc : WG1861379,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 08 13:35:27 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:35:32 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.913	165	1896	237.655	ng/ml#	78
20) Fluorene	4.114	166	8295	259.345	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.142	198	1088	233.562	ng/ml	89
24) Hexachlorobenzene	4.430	284	3216	259.623	ng/ml	99
25) Pentachlorophenol	4.540	266	1613	215.040	ng/ml	100
26) Phenanthrene	4.657	178	12748	261.914	ng/ml	99
27) Anthracene	4.684	178	12492	258.812	ng/ml	100
28) Fluoranthene	5.337	202	17035	265.468	ng/ml	96
29) Pyrene	5.468	202	17494	265.450	ng/ml	99
32) Benzo[a]anthracene	6.191	228	17754	258.716	ng/ml	99
33) 3,3'-Dichlorobenzidine	6.180	252	6990	233.001	ng/ml	99
34) Chrysene	6.212	228	16577	252.945	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.227	149	7628	202.170	ng/ml	98
37) Benzo[b]fluoranthene	7.007	252	19335	260.571	ng/ml	98
38) Benzo[k]fluoranthene	7.032	252	18759	266.237	ng/ml	98
39) Benzo[a]pyrene	7.306	252	17009	260.418	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.534	276	18848	265.519	ng/ml	94
41) Dibenzo[a,h]anthracene	8.570	278	17933	271.529	ng/ml	95
42) Benzo[g,h,i]perylene	8.861	276	19460	269.511	ng/ml	93

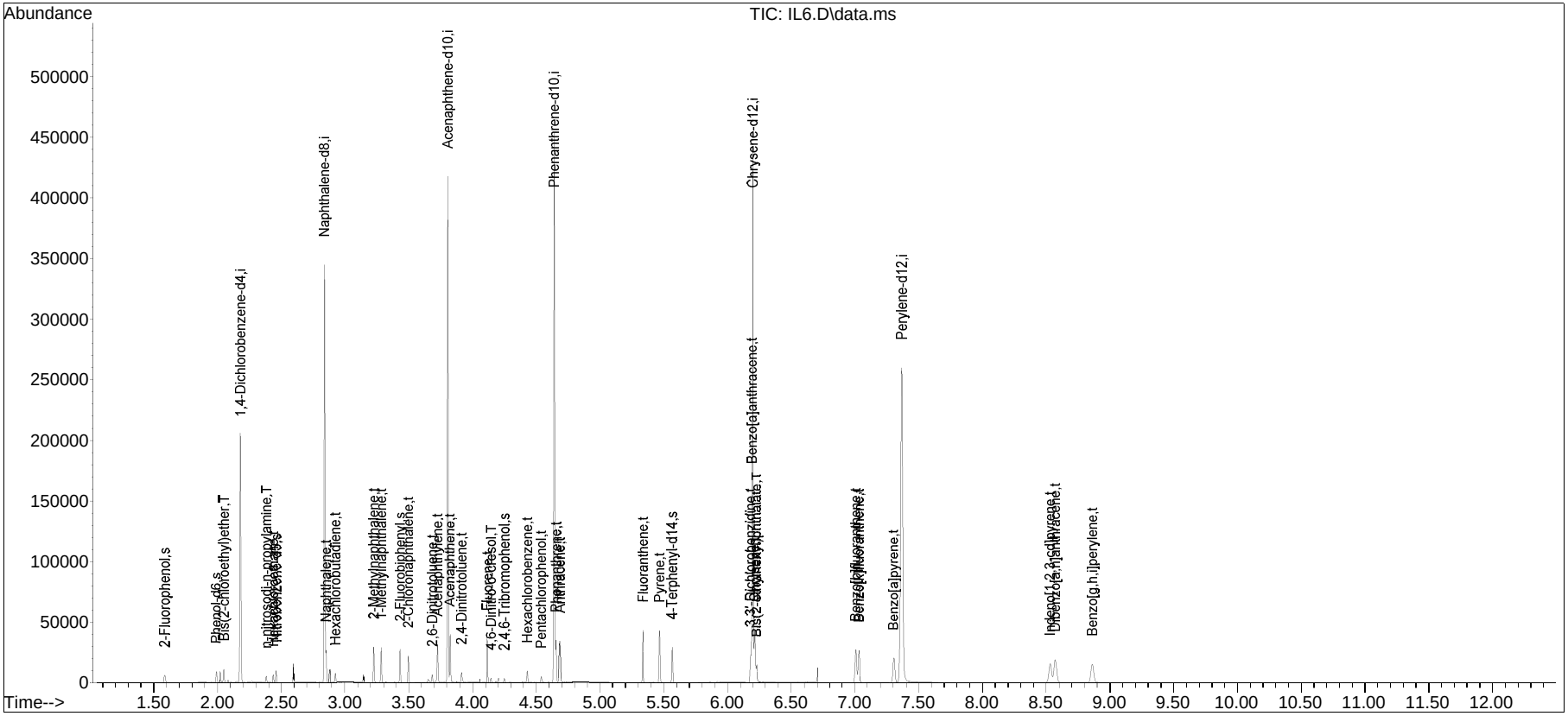
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL6.D
Acq On : 07 Dec 2023 02:20 pm
Operator : sv119:dv
Sample : IL6,32,,0.25 Lot#10230
Misc : WG1861379,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 08 13:35:27 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:35:32 2023
Response via : Initial Calibration

Sub List : Default - All compounds listedIical\IL7.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv119\231207nLVQ	Method	: SIM-LVI_231207n_sv119.M
Data File	: IL6.D	Operator	: sv119:dv
Date Inj'd	: 12/7/2023 2:20 pm	Instrument	: SV119
Sample	: IL6,32,,0.25 Lot#10230	Quant Date	: 12/8/2023 1:35 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL5.D
Acq On : 07 Dec 2023 02:36 pm
Operator : sv119:dv
Sample : IL5,32,,0.1 Lot#10231
Misc : WG1861379,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 08 13:34:32 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:34:38 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.183	152	47445	4000.000	ng/ml	0.00
Standard Area 1 = 44131			Recovery = 107.51%			
8) Naphthalene-d8	2.840	136	160378	4000.000	ng/ml	0.00
Standard Area 1 = 154719			Recovery = 103.66%			
17) Acenaphthene-d10	3.808	164	93545	4000.000	ng/ml	0.00
Standard Area 1 = 88793			Recovery = 105.35%			
22) Phenanthrene-d10	4.643	188	206792	4000.000	ng/ml	0.00
Standard Area 1 = 199383			Recovery = 103.72%			
31) Chrysene-d12	6.193	240	213684	4000.000	ng/ml	0.00
Standard Area 1 = 198085			Recovery = 107.87%			
36) Perylene-d12	7.360	264	220747	4000.000	ng/ml	0.00
Standard Area 1 = 214743			Recovery = 102.80%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.592	112	1335	102.874	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 2.06%#			
3) Phenol-d6	1.994	99	1536	98.744	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 1.97%#			
7) Nitrobenzene-d5	2.462	82	1168	98.988	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 3.96%#			
13) 2-Fluorobiphenyl	3.433	172	3971	110.864	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 4.43%#			
21) 2,4,6-Tribromophenol	4.251	330	478	92.684	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 1.85%#			
30) 4-Terphenyl-d14	5.564	244	5567	109.815	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 4.39%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.051	93	1356	102.502	ng/ml	95
5) n-nitrosodi-n-propylamine	2.385	70	745	94.161	ng/ml#	90
6) Hexachloroethane	2.442	117	572	97.457	ng/ml	92
9) Naphthalene	2.852	128	3987	104.113	ng/ml	99
10) Hexachlorobutadiene	2.925	225	867	105.127	ng/ml	98
11) 2-Methylnaphthalene	3.229	142	3004	106.092	ng/ml	100
12) 1-Methylnaphthalene	3.284	142	2803	107.350	ng/ml	99
14) 2-Chloronaphthalene	3.496	162	3232	107.157	ng/ml	98
15) 2,6-Dinitrotoluene	3.688	165	664	97.495	ng/ml#	85
16) Acenaphthylene	3.727	152	4667	104.125	ng/ml	100
18) Acenaphthene	3.825	153	2997	103.635	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL5.D
Acq On : 07 Dec 2023 02:36 pm
Operator : sv119:dv
Sample : IL5,32,,0.1 Lot#10231
Misc : WG1861379,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 08 13:34:32 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:34:38 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.915	165	773	89.653	ng/ml#	79
20) Fluorene	4.114	166	3580	103.567	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.142	198	394	108.626	ng/ml	89
24) Hexachlorobenzene	4.430	284	1400	104.723	ng/ml	99
25) Pentachlorophenol	4.540	266	682	91.300	ng/ml	95
26) Phenanthrene	4.655	178	5518	105.047	ng/ml	96
27) Anthracene	4.685	178	5405	103.761	ng/ml	100
28) Fluoranthene	5.337	202	7343	106.030	ng/ml	96
29) Pyrene	5.466	202	7578	106.546	ng/ml	99
32) Benzo[a]anthracene	6.184	228	7943	101.296	ng/ml	97
33) 3,3'-Dichlorobenzidine	6.173	252	2907	90.047	ng/ml	99
34) Chrysene	6.208	228	7172	101.696	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.220	149	3238	99.428	ng/ml	98
37) Benzo[b]fluoranthene	7.003	252	8069	104.630	ng/ml	98
38) Benzo[k]fluoranthene	7.025	252	7961	108.713	ng/ml	98
39) Benzo[a]pyrene	7.299	252	7107	104.697	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.530	276	7775	105.387	ng/ml	94
41) Dibenzo[a,h]anthracene	8.567	278	7523	109.600	ng/ml	94
42) Benzo[g,h,i]perylene	8.855	276	8003	106.645	ng/ml	93

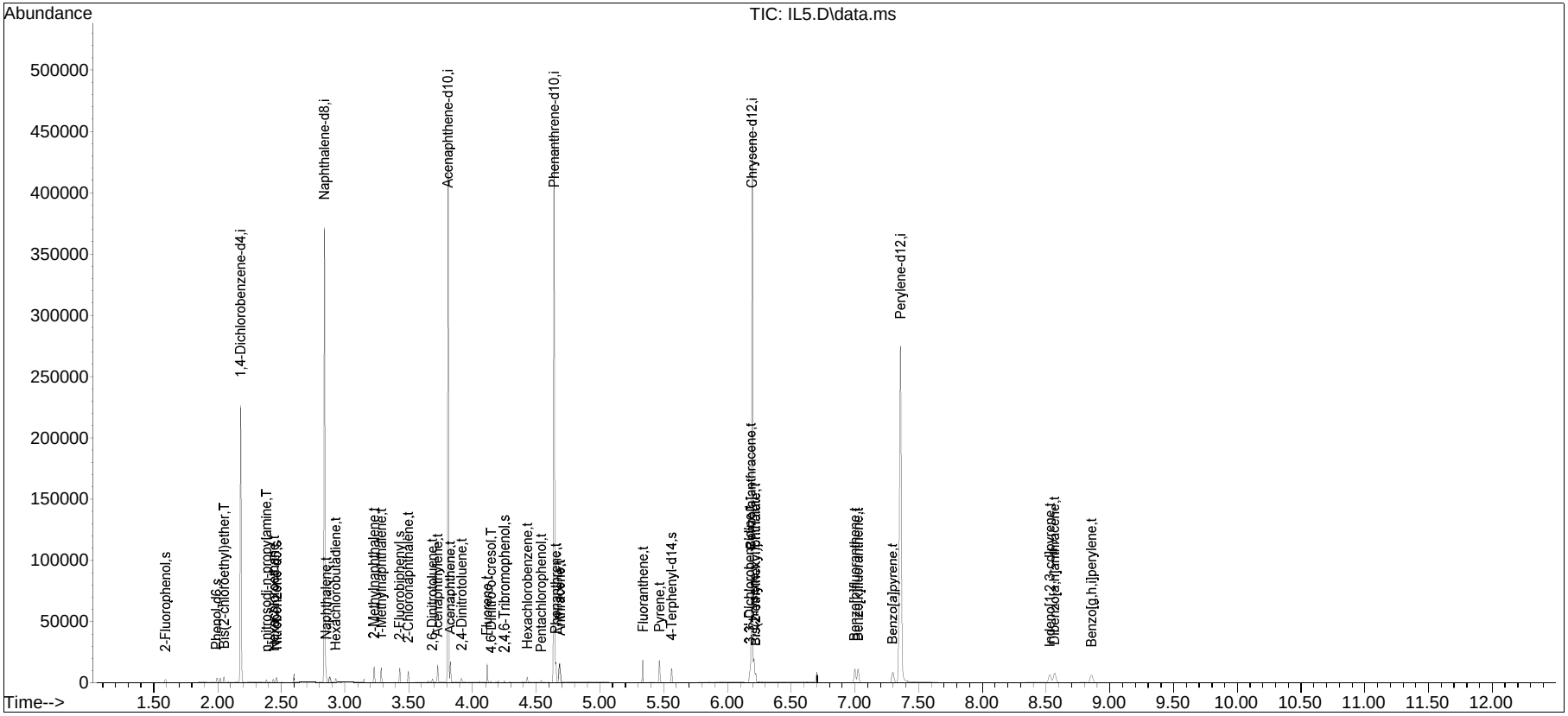
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL5.D
Acq On : 07 Dec 2023 02:36 pm
Operator : sv119:dv
Sample : IL5,32,,0.1 Lot#10231
Misc : WG1861379,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 08 13:34:32 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:34:38 2023
Response via : Initial Calibration

Sub List : Default - All compounds listedIical\IL7.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv119\231207nLVQ	Method	: SIM-LVI_231207n_sv119.M
Data File	: IL5.D	Operator	: sv119:dv
Date Inj'd	: 12/7/2023 2:36 pm	Instrument	: SV119
Sample	: IL5,32,,0.1 Lot#10231	Quant Date	: 12/8/2023 1:34 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL4.D
Acq On : 07 Dec 2023 02:53 pm
Operator : sv119:dv
Sample : IL4,32,,0.05 Lot#10232
Misc : WG1861379,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 08 13:34:06 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:34:10 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.183	152	45995	4000.000	ng/ml	0.00
Standard Area 1 = 44131			Recovery = 104.22%			
8) Naphthalene-d8	2.840	136	154289	4000.000	ng/ml	0.00
Standard Area 1 = 154719			Recovery = 99.72%			
17) Acenaphthene-d10	3.807	164	90453	4000.000	ng/ml	0.00
Standard Area 1 = 88793			Recovery = 101.87%			
22) Phenanthrene-d10	4.643	188	199932	4000.000	ng/ml	0.00
Standard Area 1 = 199383			Recovery = 100.28%			
31) Chrysene-d12	6.192	240	216027	4000.000	ng/ml	0.00
Standard Area 1 = 198085			Recovery = 109.06%			
36) Perylene-d12	7.358	264	222689	4000.000	ng/ml	0.00
Standard Area 1 = 214743			Recovery = 103.70%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.590	112	637	50.634	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 1.01%#			
3) Phenol-d6	1.993	99	731	48.475	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.97%#			
7) Nitrobenzene-d5	2.462	82	547	47.820	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 1.91%#			
13) 2-Fluorobiphenyl	3.433	172	1886	54.732	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 2.19%#			
21) 2,4,6-Tribromophenol	4.249	330	234	46.924	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.94%#			
30) 4-Terphenyl-d14	5.562	244	2716	55.414	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 2.22%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.051	93	655	51.073	ng/ml	94
5) n-nitrosodi-n-propylamine	2.385	70	349	45.501	ng/ml#	91
6) Hexachloroethane	2.441	117	278	48.859	ng/ml	90
9) Naphthalene	2.852	128	1914	51.953	ng/ml	99
10) Hexachlorobutadiene	2.925	225	420	52.937	ng/ml	96
11) 2-Methylnaphthalene	3.229	142	1443	52.974	ng/ml	98
12) 1-Methylnaphthalene	3.282	142	1336	53.186	ng/ml	100
14) 2-Chloronaphthalene	3.496	162	1555	53.591	ng/ml	96
15) 2,6-Dinitrotoluene	3.688	165	312M6	47.619	ng/ml	
16) Acenaphthylene	3.727	152	2223	51.554	ng/ml	99
18) Acenaphthene	3.825	153	1443	51.604	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL4.D
Acq On : 07 Dec 2023 02:53 pm
Operator : sv119:dv
Sample : IL4,32,,0.05 Lot#10232
Misc : WG1861379,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 08 13:34:06 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:34:10 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.915	165	369	44.260	ng/ml#	79
20) Fluorene	4.114	166	1712	51.220	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.144	198	141	68.886	ng/ml	98
24) Hexachlorobenzene	4.430	284	663	51.295	ng/ml	96
25) Pentachlorophenol	4.538	266	320	50.277	ng/ml	97
26) Phenanthrene	4.655	178	2614M6	51.471	ng/ml	
27) Anthracene	4.684	178	2575	51.129	ng/ml	100
28) Fluoranthene	5.335	202	3564	53.229	ng/ml	96
29) Pyrene	5.466	202	3726	54.184	ng/ml	99
32) Benzo[a]anthracene	6.184	228	4223	48.187	ng/ml	95
33) 3,3'-Dichlorobenzidine	6.173	252	1404	43.019	ng/ml	100
34) Chrysene	6.207	228	3596	50.437	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.222	149	1581	64.823	ng/ml	99
37) Benzo[b]fluoranthene	7.001	252	3954	50.824	ng/ml	100
38) Benzo[k]fluoranthene	7.025	252	3980	53.876	ng/ml	100
39) Benzo[a]pyrene	7.299	252	3513	51.300	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.529	276	3799	51.045	ng/ml	95
41) Dibenzo[a,h]anthracene	8.567	278	3727	53.824	ng/ml	94
42) Benzo[g,h,i]perylene	8.855	276	3986	52.653	ng/ml	94

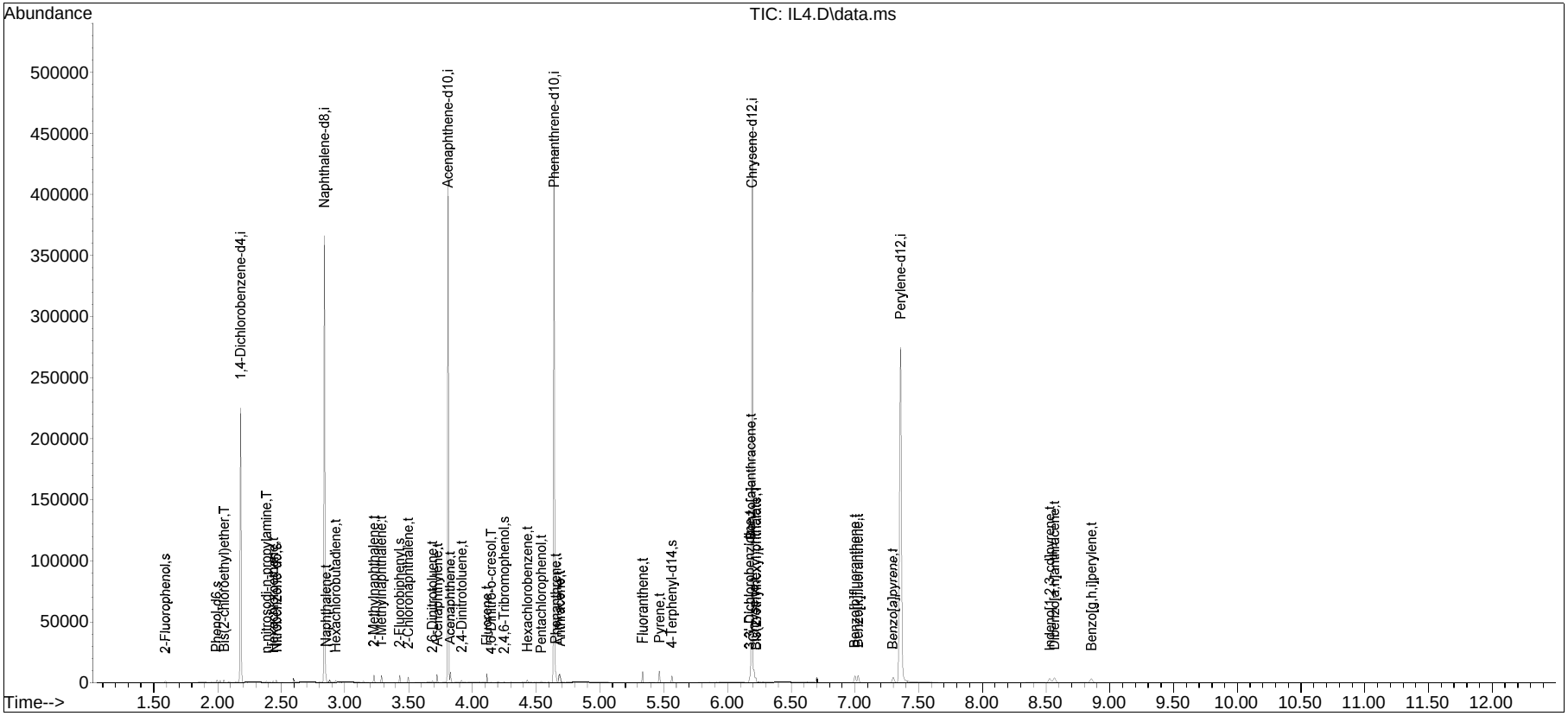
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL4.D
Acq On : 07 Dec 2023 02:53 pm
Operator : sv119:dv
Sample : IL4,32,,0.05 Lot#10232
Misc : WG1861379,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 08 13:34:06 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:34:10 2023
Response via : Initial Calibration

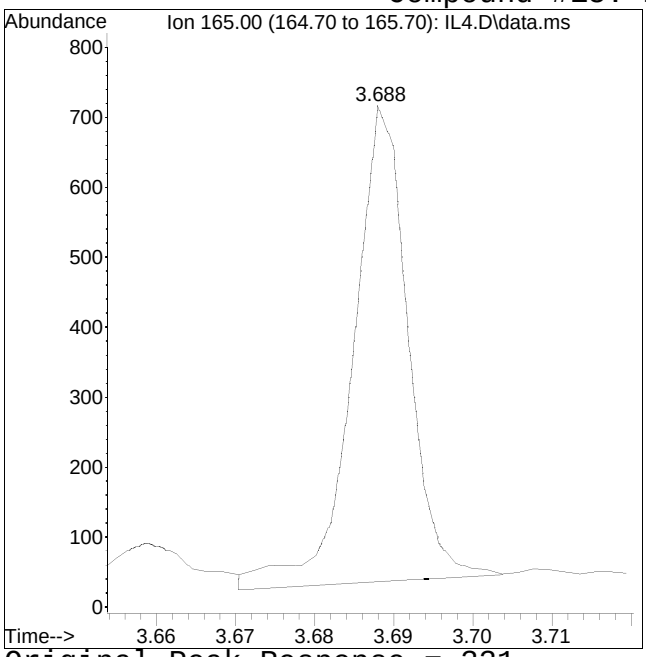
Sub List : Default - All compounds listedIical\IL7.D•



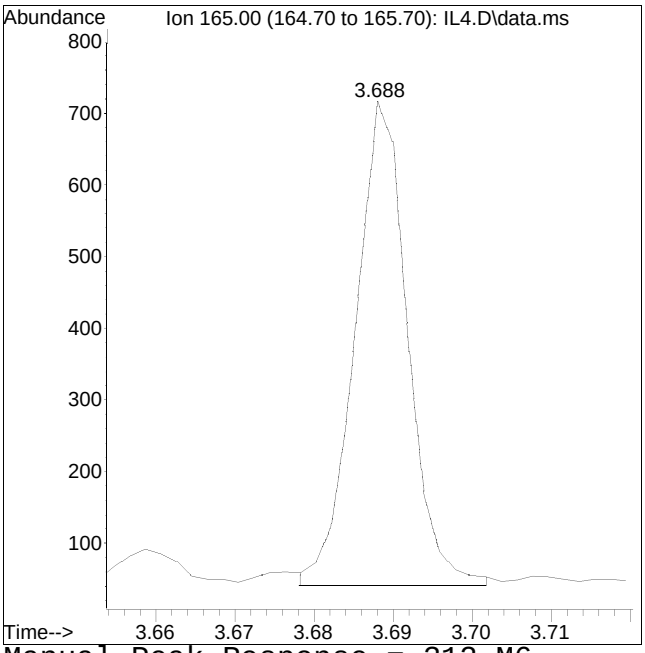
Manual Integration Report

Data Path : I:\8270SIM\sv119\231207nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : IL4.D Operator : sv119:dv
Date Inj'd : 12/7/2023 2:53 pm Instrument : SV119
Sample : IL4,32,,0.05 Lot#10232 Quant Date : 12/8/2023 1:34 pm

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 331



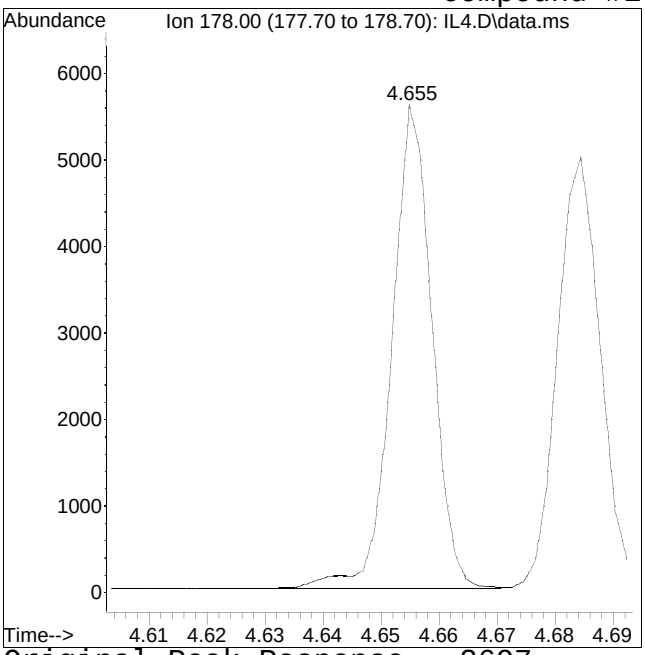
Manual Peak Response = 312 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

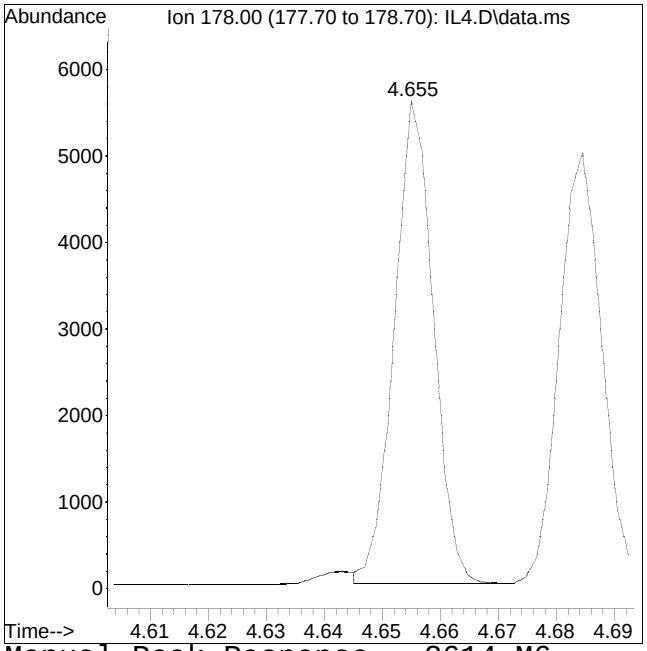
Manual Integration Report

Data Path : I:\8270SIM\sv119\231207nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : IL4.D Operator : sv119:dv
Date Inj'd : 12/7/2023 2:53 pm Instrument : SV119
Sample : IL4,32,,0.05 Lot#10232 Quant Date : 12/8/2023 1:34 pm

Compound #26: Phenanthrene



Original Peak Response = 2697



Manual Peak Response = 2614 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL3.D
Acq On : 07 Dec 2023 03:09 pm
Operator : sv119:dv
Sample : IL3,32,,0.025 Lot#10233
Misc : WG1861379,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 08 13:33:15 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:33:19 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.183	152	48524	4000.000	ng/ml	0.00
Standard Area 1 = 44131			Recovery = 109.95%			
8) Naphthalene-d8	2.840	136	162915	4000.000	ng/ml	0.00
Standard Area 1 = 154719			Recovery = 105.30%			
17) Acenaphthene-d10	3.808	164	95545	4000.000	ng/ml	0.00
Standard Area 1 = 88793			Recovery = 107.60%			
22) Phenanthrene-d10	4.643	188	212473	4000.000	ng/ml	0.00
Standard Area 1 = 199383			Recovery = 106.57%			
31) Chrysene-d12	6.193	240	225835	4000.000	ng/ml	0.00
Standard Area 1 = 198085			Recovery = 114.01%			
36) Perylene-d12	7.360	264	232095	4000.000	ng/ml	0.00
Standard Area 1 = 214743			Recovery = 108.08%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.592	112	335	25.241	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.50%#			
3) Phenol-d6	1.996	99	384	24.137	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.48%#			
7) Nitrobenzene-d5	2.463	82	302	25.025	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 1.00%#			
13) 2-Fluorobiphenyl	3.433	172	1002	27.539	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 1.10%#			
21) 2,4,6-Tribromophenol	4.251	330	121	22.971	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.46%#			
30) 4-Terphenyl-d14	5.562	244	1452	27.876	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 1.12%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.051	93	352	26.017	ng/ml	94
5) n-nitrosodi-n-propylamine	2.386	70	189	23.357	ng/ml#	86
6) Hexachloroethane	2.442	117	153	25.488	ng/ml	97
9) Naphthalene	2.852	128	1030	26.478	ng/ml	98
10) Hexachlorobutadiene	2.927	225	222	26.499	ng/ml	100
11) 2-Methylnaphthalene	3.229	142	757	26.319	ng/ml	99
12) 1-Methylnaphthalene	3.282	142	716	26.995	ng/ml	99
14) 2-Chloronaphthalene	3.496	162	831	27.123	ng/ml	98
15) 2,6-Dinitrotoluene	3.688	165	172	24.861	ng/ml#	75
16) Acenaphthylene	3.727	152	1186	26.049	ng/ml	100
18) Acenaphthene	3.825	153	760	25.730	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL3.D
Acq On : 07 Dec 2023 03:09 pm
Operator : sv119:dv
Sample : IL3,32,,0.025 Lot#10233
Misc : WG1861379,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 08 13:33:15 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:33:19 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.915	165	188	21.348	ng/ml#	79
20) Fluorene	4.114	166	903	25.576	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.145	198	55	54.105	ng/ml	97
24) Hexachlorobenzene	4.430	284	357	25.990	ng/ml	98
25) Pentachlorophenol	4.540	266	161	29.909	ng/ml	95
26) Phenanthrene	4.655	178	1405M6	26.032	ng/ml	
27) Anthracene	4.685	178	1387	25.915	ng/ml	100
28) Fluoranthene	5.337	202	1897	26.660	ng/ml	95
29) Pyrene	5.466	202	2001	27.382	ng/ml	99
32) Benzo[a]anthracene	6.186	228	2608	24.078	ng/ml	92
33) 3,3'-Dichlorobenzidine	6.173	252	733	21.484	ng/ml	98
34) Chrysene	6.208	228	1876	25.170	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.223	149	843	48.985	ng/ml	96
37) Benzo[b]fluoranthene	7.003	252	2138	26.368	ng/ml	100
38) Benzo[k]fluoranthene	7.025	252	2060	26.755	ng/ml	99
39) Benzo[a]pyrene	7.301	252	1856	26.005	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.527	276	2047	26.390	ng/ml	93
41) Dibenzo[a,h]anthracene	8.567	278	1931	26.757	ng/ml	95
42) Benzo[g,h,i]perylene	8.854	276	2115	26.806	ng/ml	93

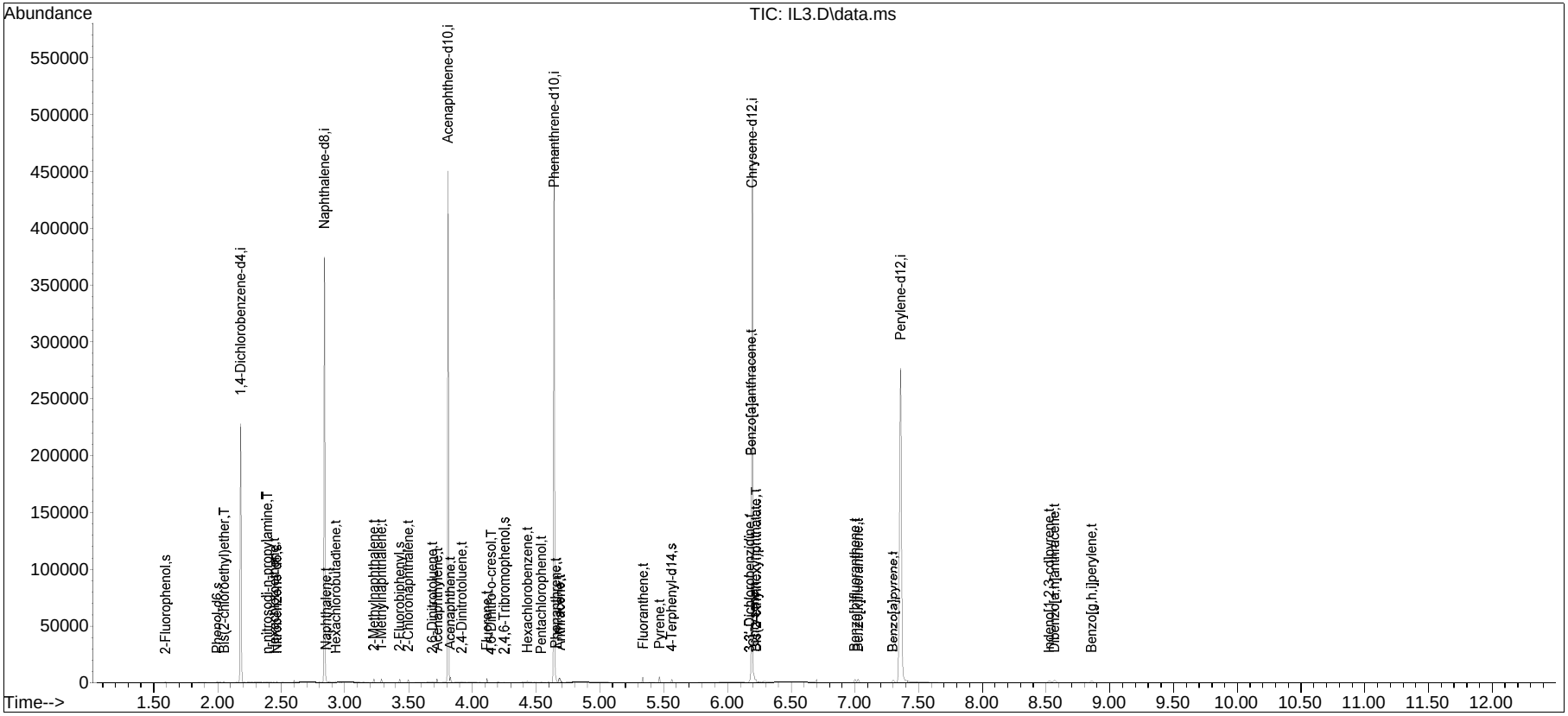
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL3.D
Acq On : 07 Dec 2023 03:09 pm
Operator : sv119:dv
Sample : IL3,32,,0.025 Lot#10233
Misc : WG1861379,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 08 13:33:15 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:33:19 2023
Response via : Initial Calibration

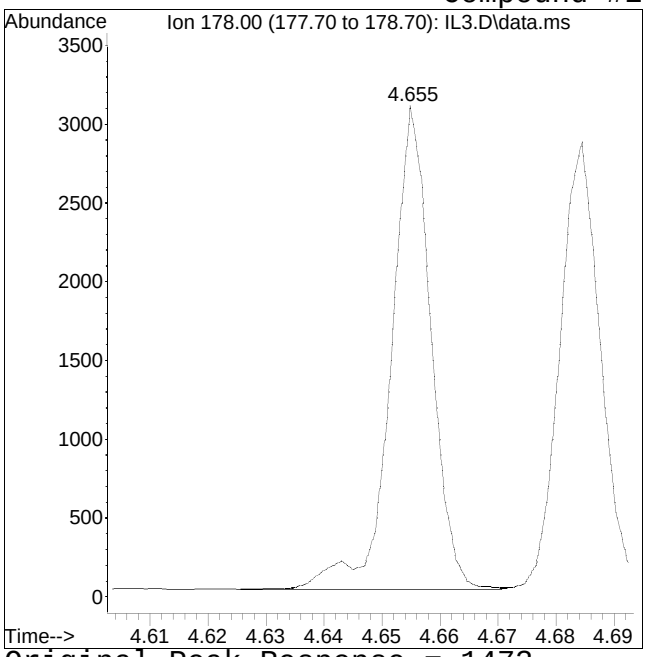
Sub List : Default - All compounds listedIical\IL7.D•



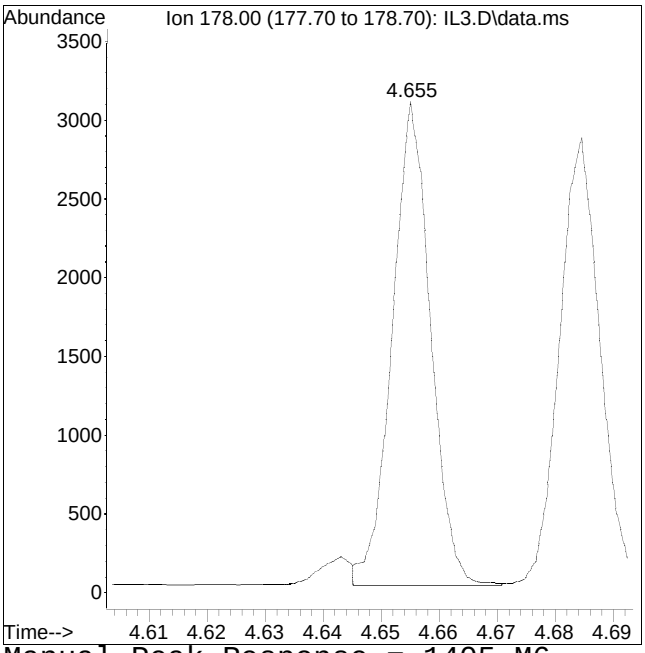
Manual Integration Report

Data Path : I:\8270SIM\sv119\231207nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : IL3.D Operator : sv119:dv
Date Inj'd : 12/7/2023 3:09 pm Instrument : SV119
Sample : IL3,32,,0.025 Lot#10233 Quant Date : 12/8/2023 1:33 pm

Compound #26: Phenanthrene



Original Peak Response = 1473



Manual Peak Response = 1405 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL2.D
Acq On : 07 Dec 2023 03:26 pm
Operator : sv119:dv
Sample : IL2,32,,0.01 Lot#10234
Misc : WG1861379,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 08 13:33:00 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:33:04 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.183	152	46716	4000.000	ng/ml	0.00
Standard Area 1 = 44131			Recovery = 105.86%			
8) Naphthalene-d8	2.839	136	156475	4000.000	ng/ml	0.00
Standard Area 1 = 154719			Recovery = 101.13%			
17) Acenaphthene-d10	3.808	164	91742	4000.000	ng/ml	0.00
Standard Area 1 = 88793			Recovery = 103.32%			
22) Phenanthrene-d10	4.641	188	202200	4000.000	ng/ml	0.00
Standard Area 1 = 199383			Recovery = 101.41%			
31) Chrysene-d12	6.195	240	221653	4000.000	ng/ml	0.00
Standard Area 1 = 198085			Recovery = 111.90%			
36) Perylene-d12	7.360	264	229421	4000.000	ng/ml	0.00
Standard Area 1 = 214743			Recovery = 106.84%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.591	112	132	10.331	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.21%#			
3) Phenol-d6	1.994	99	153	9.989	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.20%#			
7) Nitrobenzene-d5	2.462	82	119	10.243	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.41%#			
13) 2-Fluorobiphenyl	3.431	172	380	10.874	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.43%#			
21) 2,4,6-Tribromophenol	4.249	330	49M6	9.688	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.19%#			
30) 4-Terphenyl-d14	5.564	244	568	11.459	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.46%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.048	93	144	11.055	ng/ml	89
5) n-nitrosodi-n-propylamine	2.383	70	74	9.499	ng/ml	97
6) Hexachloroethane	2.441	117	62	10.728	ng/ml	95
9) Naphthalene	2.850	128	396	10.599	ng/ml#	95
10) Hexachlorobutadiene	2.924	225	82	10.191	ng/ml	93
11) 2-Methylnaphthalene	3.227	142	292	10.570	ng/ml	100
12) 1-Methylnaphthalene	3.282	142	271	10.638	ng/ml	97
14) 2-Chloronaphthalene	3.494	162	318	10.806	ng/ml	96
15) 2,6-Dinitrotoluene	3.686	165	64M6	9.631	ng/ml	
16) Acenaphthylene	3.725	152	449	10.267	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL2.D
Acq On : 07 Dec 2023 03:26 pm
Operator : sv119:dv
Sample : IL2,32,,0.01 Lot#10234
Misc : WG1861379,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 08 13:33:00 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:33:04 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18) Acenaphthene	3.825	153	289	10.190	ng/ml	98
19) 2,4-Dinitrotoluene	3.913	165	74M6	8.751	ng/ml	
20) Fluorene	4.113	166	351	10.354	ng/ml	99
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
24) Hexachlorobenzene	4.428	284	135	10.328	ng/ml	97
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	4.655	178	533	10.377	ng/ml	99
27) Anthracene	4.685	178	536	10.523	ng/ml	100
28) Fluoranthene	5.335	202	739	10.913	ng/ml	97
29) Pyrene	5.466	202	775	11.144	ng/ml	99
32) Benzo[a]anthracene	6.188	228	1402	8.338	ng/ml#	86
33) 3,3'-Dichlorobenzidine	6.178	252	290	8.660	ng/ml	99
34) Chrysene	6.212	228	730	9.979	ng/ml	95
35) Bis(2-ethylhexyl)phtha...	6.225	149	378	40.030	ng/ml	97
37) Benzo[b]fluoranthene	7.005	252	844	10.530	ng/ml	99
38) Benzo[k]fluoranthene	7.031	252	805	10.577	ng/ml	97
39) Benzo[a]pyrene	7.303	252	735	10.418	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.530	276	790	10.303	ng/ml	93
41) Dibenzo[a,h]anthracene	8.568	278	767	10.752	ng/ml#	92
42) Benzo[g,h,i]perylene	8.859	276	839	10.758	ng/ml	93

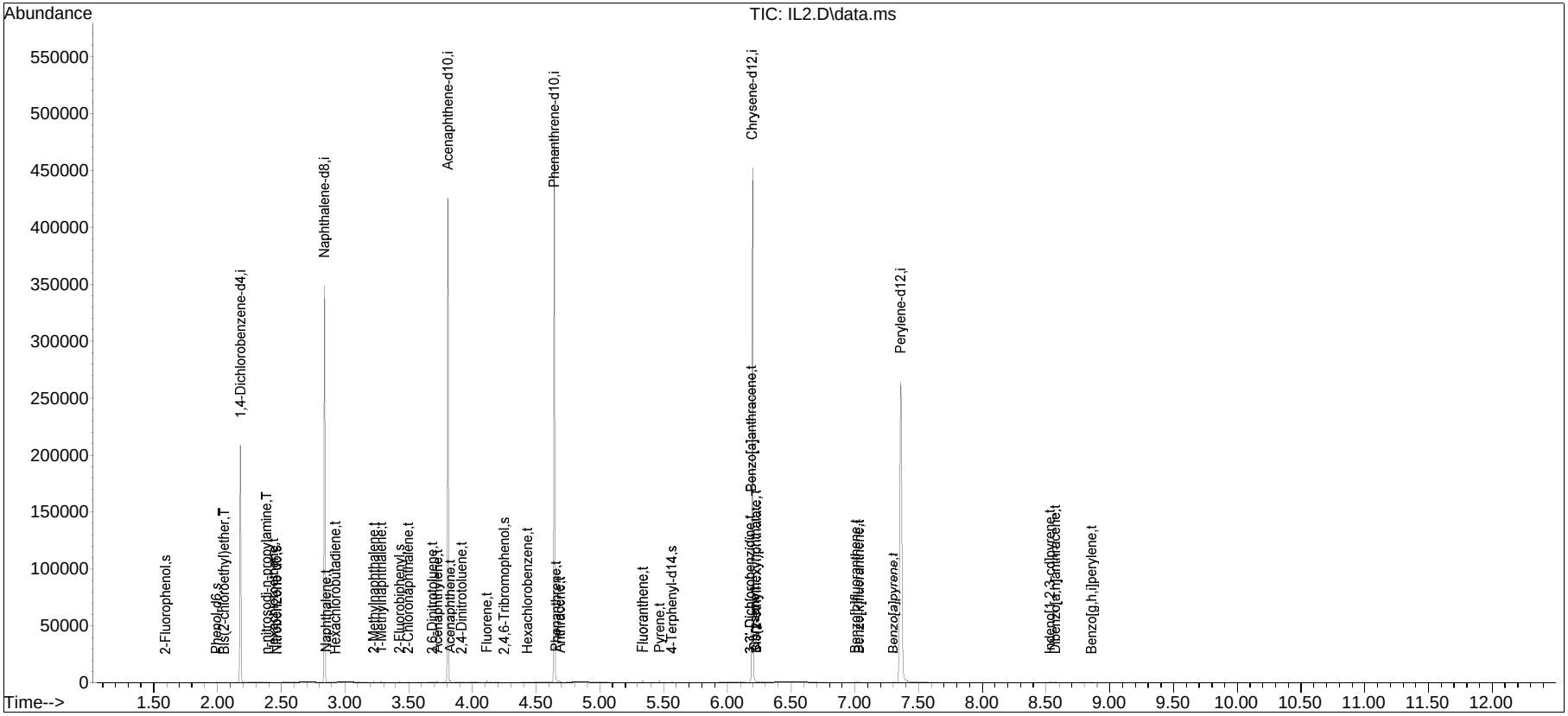
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL2.D
Acq On : 07 Dec 2023 03:26 pm
Operator : sv119:dv
Sample : IL2,32,,0.01 Lot#10234
Misc : WG1861379,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 08 13:33:00 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:33:04 2023
Response via : Initial Calibration

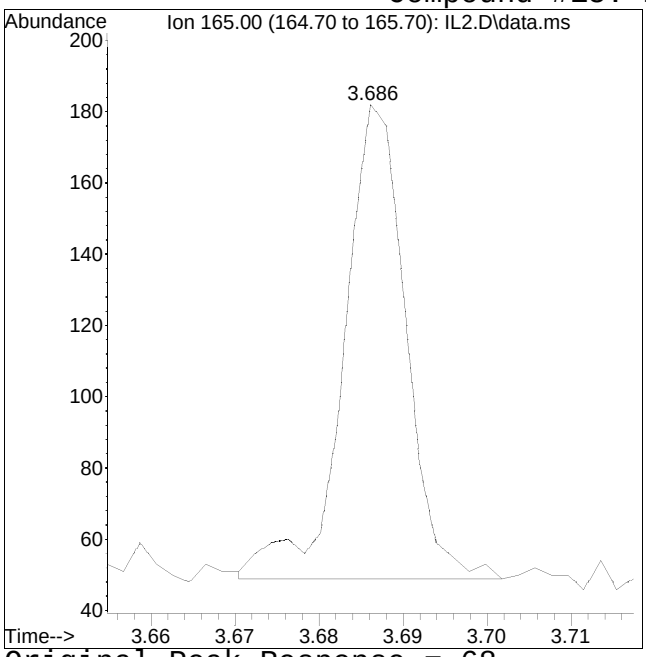
Sub List : Default - All compounds listedIical\IL7.D•



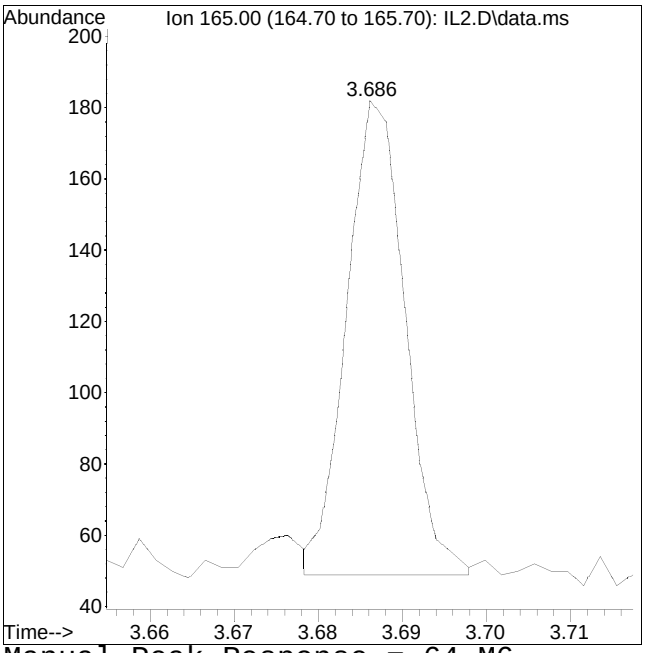
Manual Integration Report

Data Path : I:\8270SIM\sv119\231207nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : IL2.D Operator : sv119:dv
Date Inj'd : 12/7/2023 3:26 pm Instrument : SV119
Sample : IL2,32,,0.01 Lot#10234 Quant Date : 12/8/2023 1:33 pm

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 68



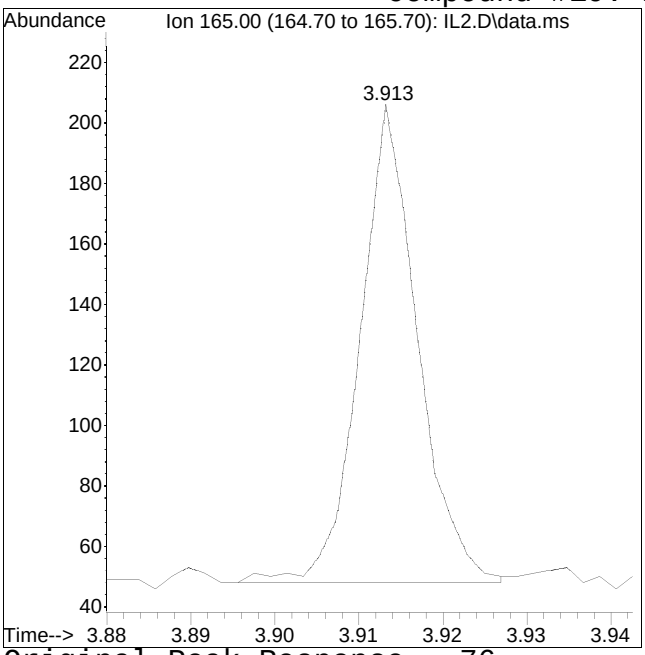
Manual Peak Response = 64 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

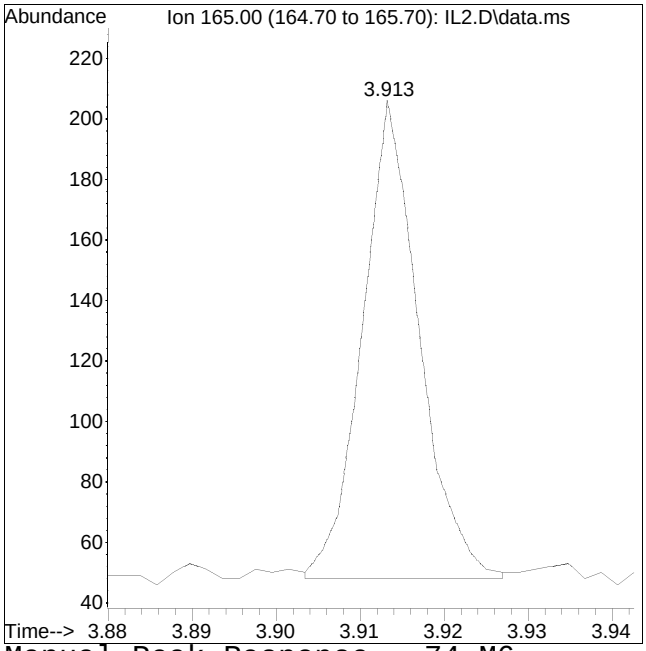
Manual Integration Report

Data Path : I:\8270SIM\sv119\231207nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : IL2.D Operator : sv119:dv
Date Inj'd : 12/7/2023 3:26 pm Instrument : SV119
Sample : IL2,32,,0.01 Lot#10234 Quant Date : 12/8/2023 1:33 pm

Compound #19: 2,4-Dinitrotoluene



Original Peak Response = 76



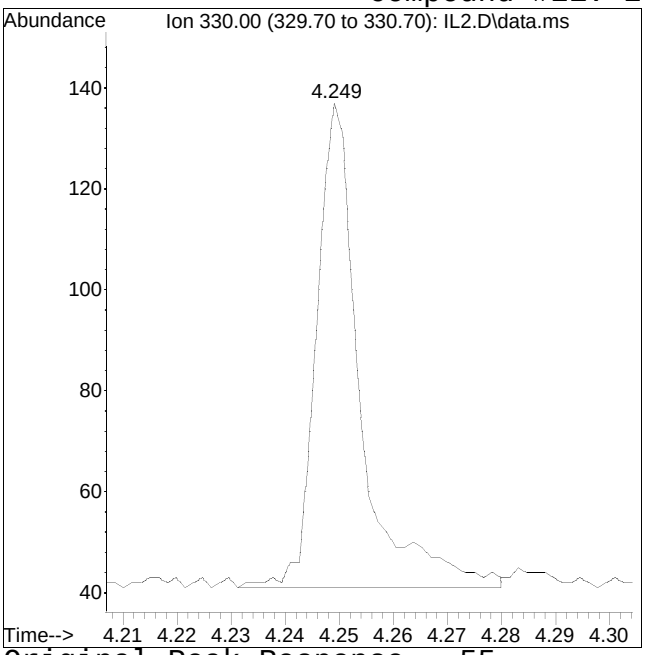
Manual Peak Response = 74 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

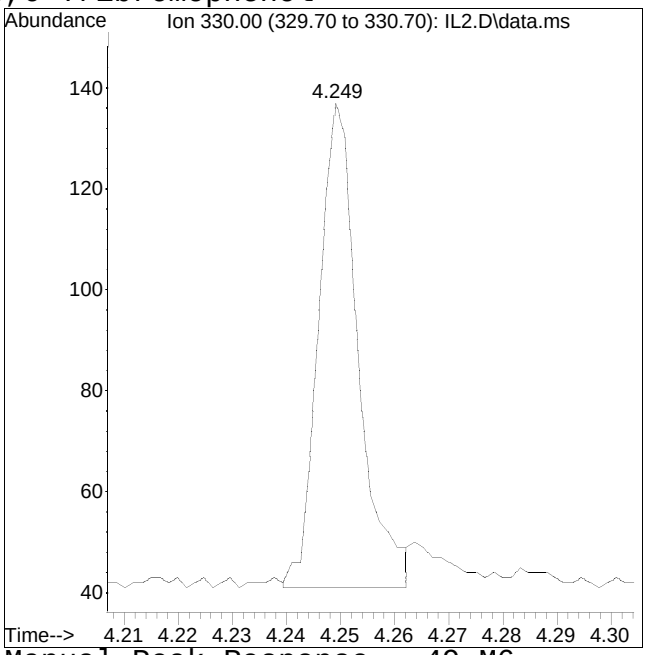
Manual Integration Report

Data Path : I:\8270SIM\sv119\231207nLVQMethod : SIM-LVI_231207n_sv119.M
Data File : IL2.D Operator : sv119:dv
Date Inj'd : 12/7/2023 3:26 pm Instrument : SV119
Sample : IL2,32,,0.01 Lot#10234 Quant Date : 12/8/2023 1:33 pm

Compound #21: 2,4,6-Tribromophenol



Original Peak Response = 55



Manual Peak Response = 49 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL1.D
Acq On : 07 Dec 2023 03:42 pm
Operator : sv119:dv
Sample : IL1,32,, 0.005 Lot#10235
Misc : WG1861379,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 08 13:31:26 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:31:30 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.183	152	47534	4000.000	ng/ml	0.00
Standard Area 1 = 44131			Recovery = 107.71%			
8) Naphthalene-d8	2.841	136	159531	4000.000	ng/ml	0.00
Standard Area 1 = 154719			Recovery = 103.11%			
17) Acenaphthene-d10	3.808	164	93128	4000.000	ng/ml	0.00
Standard Area 1 = 88793			Recovery = 104.88%			
22) Phenanthrene-d10	4.641	188	203282	4000.000	ng/ml	0.00
Standard Area 1 = 199383			Recovery = 101.96%			
31) Chrysene-d12	6.191	240	211989	4000.000	ng/ml	0.00
Standard Area 1 = 198085			Recovery = 107.02%			
36) Perylene-d12	7.359	264	218868	4000.000	ng/ml	0.00
Standard Area 1 = 214743			Recovery = 101.92%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.591	112	67	5.153	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.10%#			
3) Phenol-d6	1.996	99	85	5.454	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.11%#			
7) Nitrobenzene-d5	2.463	82	54	4.568	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.18%#			
13) 2-Fluorobiphenyl	3.433	172	197	5.529	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.22%#			
21) 2,4,6-Tribromophenol	4.249	330	25	4.869	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.10%#			
30) 4-Terphenyl-d14	5.563	244	285	5.719	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.23%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.051	93	76	5.734	ng/ml	83
5) n-nitrosodi-n-propylamine	2.385	70	36	4.542	ng/ml	99
6) Hexachloroethane	2.443	117	33	5.612	ng/ml	92
9) Naphthalene	2.852	128	199	5.224	ng/ml	99
10) Hexachlorobutadiene	2.926	225	44	5.364	ng/ml	93
11) 2-Methylnaphthalene	3.229	142	146	5.184	ng/ml	97
12) 1-Methylnaphthalene	3.282	142	141	5.429	ng/ml	100
14) 2-Chloronaphthalene	3.496	162	160	5.333	ng/ml	99
15) 2,6-Dinitrotoluene	0.000		0	N.D. d		
16) Acenaphthylene	3.727	152	239	5.361	ng/ml	99
18) Acenaphthene	3.825	153	150	5.210	ng/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL1.D
Acq On : 07 Dec 2023 03:42 pm
Operator : sv119:dv
Sample : IL1,32,, 0.005 Lot#10235
Misc : WG1861379,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 08 13:31:26 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:31:30 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
20) Fluorene	4.115	166	179	5.202	ng/ml	99
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
24) Hexachlorobenzene	4.430	284	74	5.631	ng/ml	100
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	4.655	178	275	5.326	ng/ml	97
27) Anthracene	4.683	178	265	5.175	ng/ml	98
28) Fluoranthene	5.333	202	371	5.450	ng/ml	99
29) Pyrene	5.466	202	387	5.535	ng/ml	98
32) Benzo[a]anthracene	6.188	228	998	3.464	ng/ml#	81
33) 3,3'-Dichlorobenzidine	0.000		0	N.D.	d	
34) Chrysene	6.208	228	344	4.917	ng/ml	96
35) Bis(2-ethylhexyl)phtha...	6.223	149	189	36.436	ng/ml	97
37) Benzo[b]fluoranthene	7.003	252	414	5.414	ng/ml	100
38) Benzo[k]fluoranthene	7.026	252	391	5.385	ng/ml	100
39) Benzo[a]pyrene	7.299	252	348	5.171	ng/ml	97
40) Indeno[1,2,3-cd]pyrene	8.530	276	384	5.250	ng/ml	92
41) Dibenzo[a,h]anthracene	8.567	278	358	5.260	ng/ml	96
42) Benzo[g,h,i]perylene	8.854	276	403	5.416	ng/ml	93

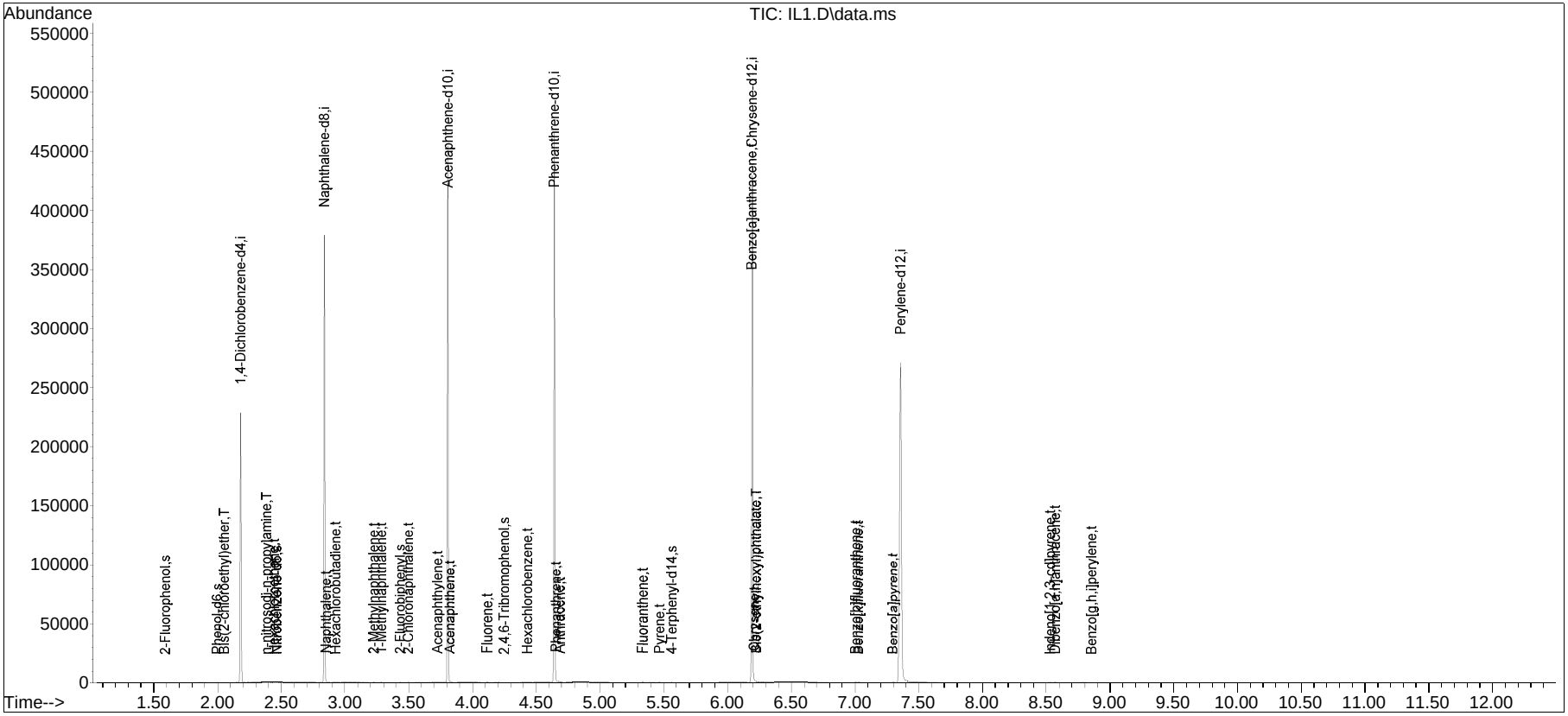
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : IL1.D
Acq On : 07 Dec 2023 03:42 pm
Operator : sv119:dv
Sample : IL1,32,, 0.005 Lot#10235
Misc : WG1861379,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 08 13:31:26 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 13:31:30 2023
Response via : Initial Calibration

Sub List : Default - All compounds listedIical\IL7.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv119\231207nLVQ	Method	: SIM-LVI_231207n_sv119.M
Data File	: IL1.D	Operator	: sv119:dv
Date Inj'd	: 12/7/2023 3:42 pm	Instrument	: SV119
Sample	: IL1,32,, 0.005 Lot#10235	Quant Date	: 12/8/2023 1:31 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : ICV.D
Acq On : 07 Dec 2023 03:59 pm
Operator : sv119:dv
Sample : CQICV,32,,1.0 Lot#10193
Misc : WG1861379,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 08 14:09:48 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 14:09:54 2023
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
2	s	2-Fluorophenol	1.094	1.204	-10.1	104	0.00
3	s	Phenol-d6	1.311	1.360	-3.7	103	0.00
4	T	Bis(2-chloroethyl)ether	1.115	1.161	-4.1	105	0.00
5	T	n-nitrosodi-n-propylamine	0.667	0.690	-3.4	101	0.00
6	t	Hexachloroethane	0.495	0.510	-3.0	103	0.00
7	s	Nitrobenzene-d5	0.995	1.007	-1.2	97	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	102	0.00
9	t	Naphthalene	0.955	1.016	-6.4	104	0.00
10	t	Hexachlorobutadiene	0.206	0.217	-5.3	102	0.00
11	t	2-Methylnaphthalene	0.706	0.746	-5.7	102	0.00
12	t	1-Methylnaphthalene	0.651	0.710	-9.1	107	0.00
13	s	2-Fluorobiphenyl	0.893	0.924	-3.5	101	0.00
14	t	2-Chloronaphthalene	0.752	0.794	-5.6	105	0.00
15	t	2,6-Dinitrotoluene	0.170	0.177	-4.1	103	0.00
16	t	Acenaphthylene	1.118	1.235	-10.5	106	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	103	0.00
18	t	Acenaphthene	1.237	1.321	-6.8	104	0.00
19	t	2,4-Dinitrotoluene	0.369	0.399	-8.1	102	0.00
20	t	Fluorene	1.478	1.659	-12.2	108	0.00
21	s	2,4,6-Tribromophenol	0.221	0.241	-9.0	103	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	105	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	868.947	13.1	97	0.00
24	t	Hexachlorobenzene	0.259	0.277	-6.9	107	0.00
25	t	Pentachlorophenol	*1000.000	905.878	9.4	99	0.00
26	t	Phenanthrene	1.016	1.101	-8.4	108	0.00
27	t	Anthracene	1.008	1.097	-8.8	107	0.00
28	t	Fluoranthene	1.339	1.474	-10.1	108	0.00
29	t	Pyrene	1.376	1.494	-8.6	109	0.00
30	s	4-Terphenyl-d14	0.981	0.966	1.5	100	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	103	0.00
32	t	Benzo[a]anthracene	*1000.000	1130.168	-13.0	105	0.00
33	t	3,3'-Dichlorobenzidine	0.604	0.620	-2.6	102	0.00
34	t	Chrysene	1.320	1.400	-6.1	106	0.00
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	813.981	18.6	100	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : ICV.D
Acq On : 07 Dec 2023 03:59 pm
Operator : sv119:dv
Sample : CQICV,32,,1.0 Lot#10193
Misc : WG1861379,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 08 14:09:48 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 14:09:54 2023
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	104	-0.01
37	t	Benzo[b]fluoranthene	1.397	1.544	-10.5	107	0.00
38	t	Benzo[k]fluoranthene	1.327	1.356	-2.2	102	0.00
39	t	Benzo[a]pyrene	1.230	1.276	-3.7	102	0.00
40	t	Indeno[1,2,3-cd]pyrene	1.337	1.484	-11.0	109	-0.01
41	t	Dibenzo[a,h]anthracene	1.244	1.369	-10.0	109	-0.01
42	t	Benzo[g,h,i]perylene	1.360	1.500	-10.3	109	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : ICV.D
Acq On : 07 Dec 2023 03:59 pm
Operator : sv119:dv
Sample : CQICV,32,,1.0 Lot#10193
Misc : WG1861379,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 08 14:09:48 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 14:09:54 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.184	152	44993	4000.000	ng/ml	0.00
Standard Area 1 = 44131			Recovery = 101.95%			
8) Naphthalene-d8	2.840	136	157864	4000.000	ng/ml	0.00
Standard Area 1 = 154719			Recovery = 102.03%			
17) Acenaphthene-d10	3.807	164	91173	4000.000	ng/ml	0.00
Standard Area 1 = 88793			Recovery = 102.68%			
22) Phenanthrene-d10	4.641	188	208520	4000.000	ng/ml	0.00
Standard Area 1 = 199383			Recovery = 104.58%			
31) Chrysene-d12	6.190	240	204628	4000.000	ng/ml	0.00
Standard Area 1 = 198085			Recovery = 103.30%			
36) Perylene-d12	7.356	264	223430	4000.000	ng/ml	-0.01
Standard Area 1 = 214743			Recovery = 104.05%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.590	112	13546	1100.734	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 22.01%			
3) Phenol-d6	1.995	99	15299	1037.113	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 20.74%			
7) Nitrobenzene-d5	2.461	82	11327	1012.276	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 40.49%			
13) 2-Fluorobiphenyl	3.432	172	36449	1033.805	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 41.35%			
21) 2,4,6-Tribromophenol	4.249	330	5485	1091.214	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 21.82%			
30) 4-Terphenyl-d14	5.562	244	50383	985.625	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 39.42%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.050	93	13057	1040.790	ng/ml	95
5) n-nitrosodi-n-propylamine	2.383	70	7758	1033.970	ng/ml#	91
6) Hexachloroethane	2.442	117	5737	1030.734	ng/ml	91
9) Naphthalene	2.851	128	40083	1063.357	ng/ml	100
10) Hexachlorobutadiene	2.925	225	8550	1053.232	ng/ml	100
11) 2-Methylnaphthalene	3.228	142	29423	1055.682	ng/ml	99
12) 1-Methylnaphthalene	3.281	142	28038	1090.908	ng/ml	99
14) 2-Chloronaphthalene	3.495	162	31353	1056.068	ng/ml	96
15) 2,6-Dinitrotoluene	3.687	165	6970	1039.701	ng/ml#	79
16) Acenaphthylene	3.727	152	48743	1104.815	ng/ml	100
18) Acenaphthene	3.825	153	30119	1068.594	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : ICV.D
Acq On : 07 Dec 2023 03:59 pm
Operator : sv119:dv
Sample : CQICV,32,,1.0 Lot#10193
Misc : WG1861379,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 08 14:09:48 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 14:09:54 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\231207nLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.913	165	9094	1082.167	ng/ml#	79
20) Fluorene	4.114	166	37806	1122.154	ng/ml	98
23) 4,6-Dinitro-o-cresol	4.140	198	5185	868.947	ng/ml	90
24) Hexachlorobenzene	4.428	284	14437	1070.968	ng/ml	98
25) Pentachlorophenol	4.538	266	7716	905.878	ng/ml	100
26) Phenanthrene	4.655	178	57399	1083.660	ng/ml	100
27) Anthracene	4.682	178	57179	1088.582	ng/ml	100
28) Fluoranthene	5.335	202	76831	1100.585	ng/ml	95
29) Pyrene	5.465	202	77872	1085.795	ng/ml	99
32) Benzo[a]anthracene	6.184	228	77469	1130.168	ng/ml	100
33) 3,3'-Dichlorobenzidine	6.173	252	31712	1025.782	ng/ml	100
34) Chrysene	6.208	228	71624	1060.547	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.220	149	36205	813.981	ng/ml	98
37) Benzo[b]fluoranthene	7.001	252	86223	1104.621	ng/ml	99
38) Benzo[k]fluoranthene	7.025	252	75734	1021.783	ng/ml	100
39) Benzo[a]pyrene	7.297	252	71277	1037.409	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.527	276	82912	1110.341	ng/ml	95
41) Dibenzo[a,h]anthracene	8.563	278	76479	1100.813	ng/ml	96
42) Benzo[g,h,i]perylene	8.854	276	83784	1103.053	ng/ml	94

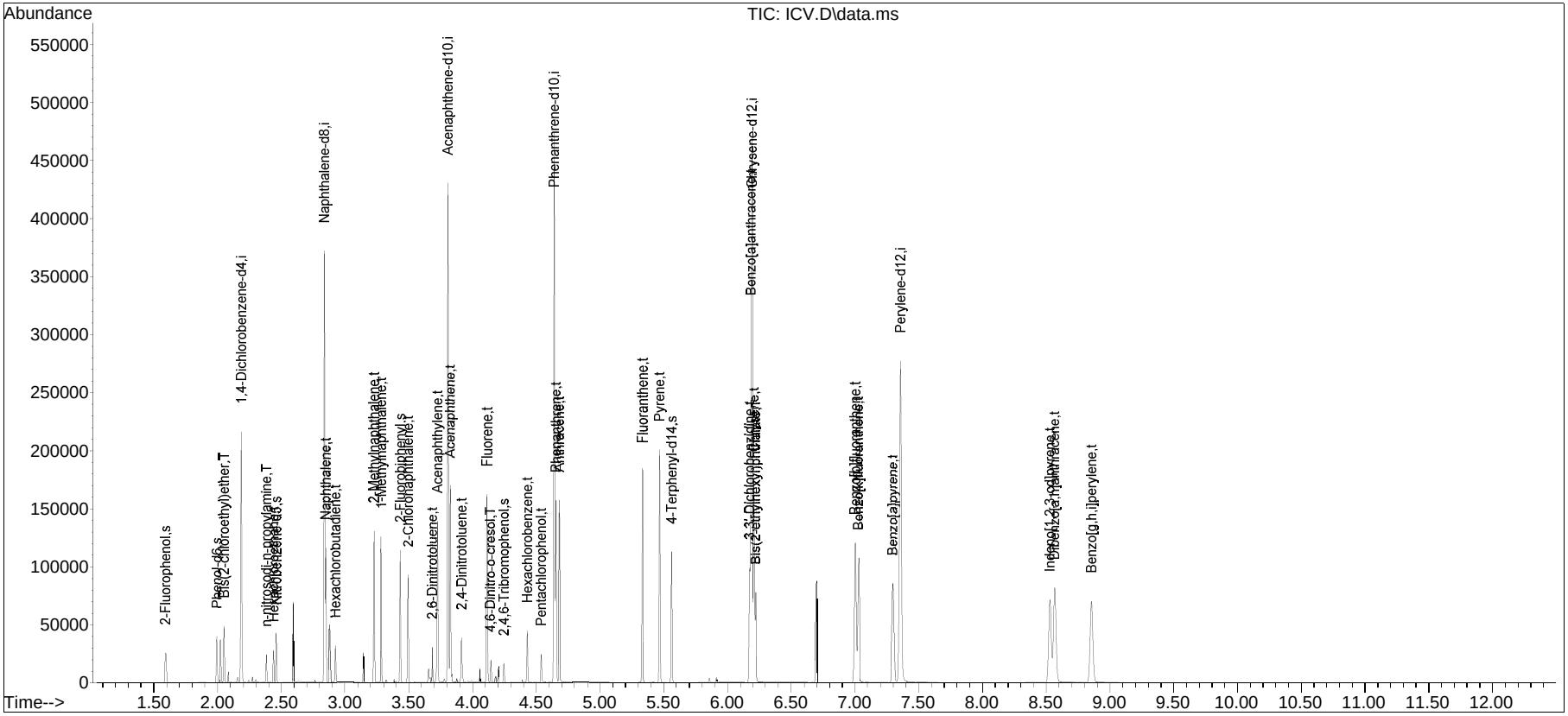
(#) = qualifier out of range (m) = manual integration (+) = signals summed

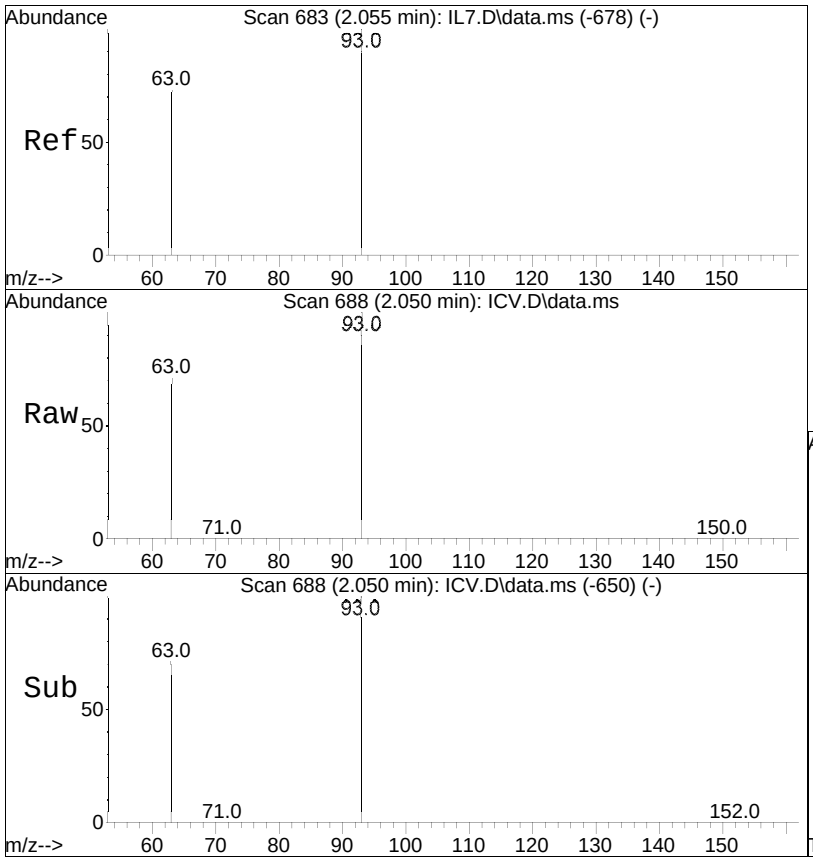
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\231207nLVIical\
Data File : ICV.D
Acq On : 07 Dec 2023 03:59 pm
Operator : sv119:dv
Sample : CQICV,32,,1.0 Lot#10193
Misc : WG1861379,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 08 14:09:48 2023
Quant Method : I:\8270SIM\sv119\231207nLVIical\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 08 14:09:54 2023
Response via : Initial Calibration

Sub List : Default - All compounds listedIical\IL7.D•

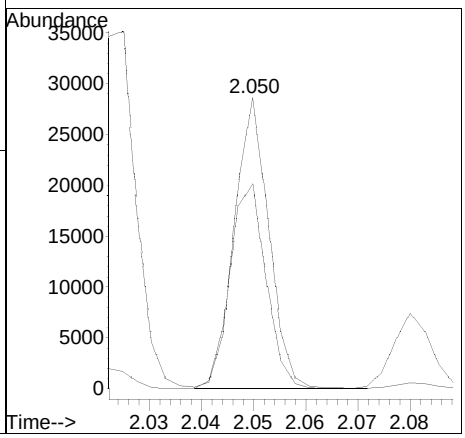


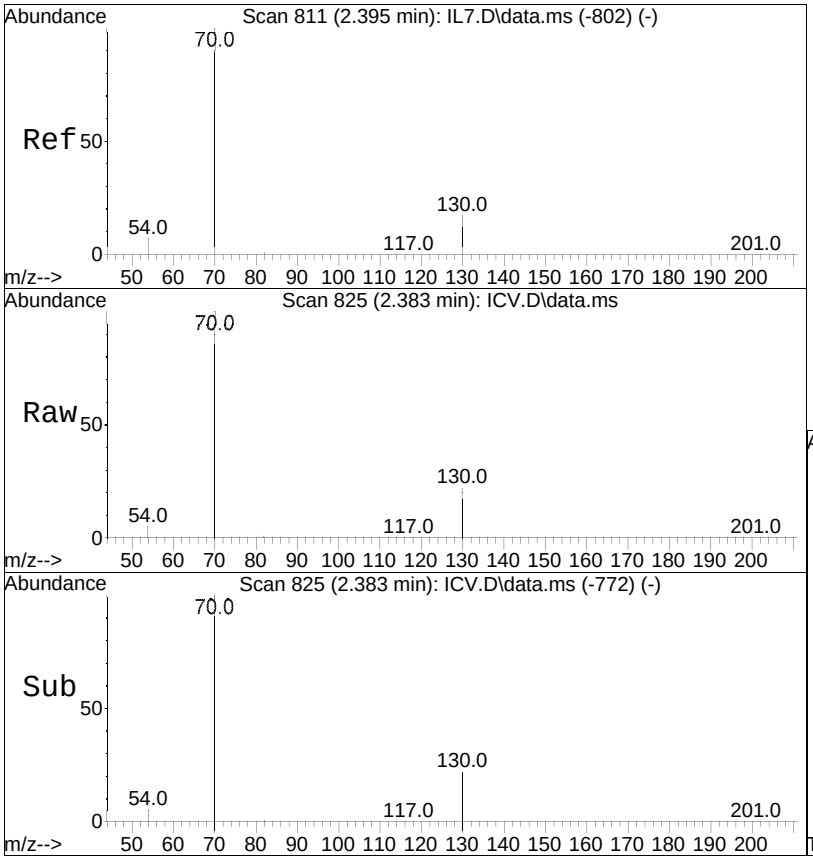


#4
Bis(2-chloroethyl)ether
Concen: 1040.79 ng/ml
RT: 2.050 min Scan# 688
Delta R.T. 0.004 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion: 93 Resp: 13057

Ion	Ratio	Lower	Upper
93	100		
63	74.2	62.6	94.0

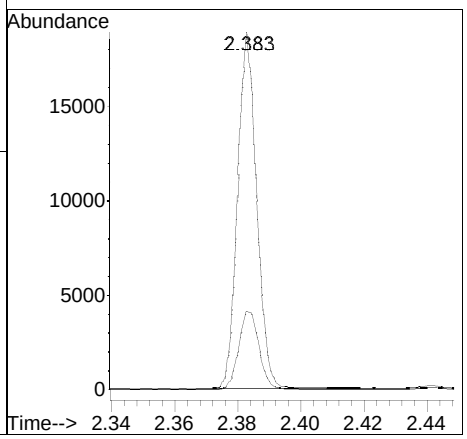


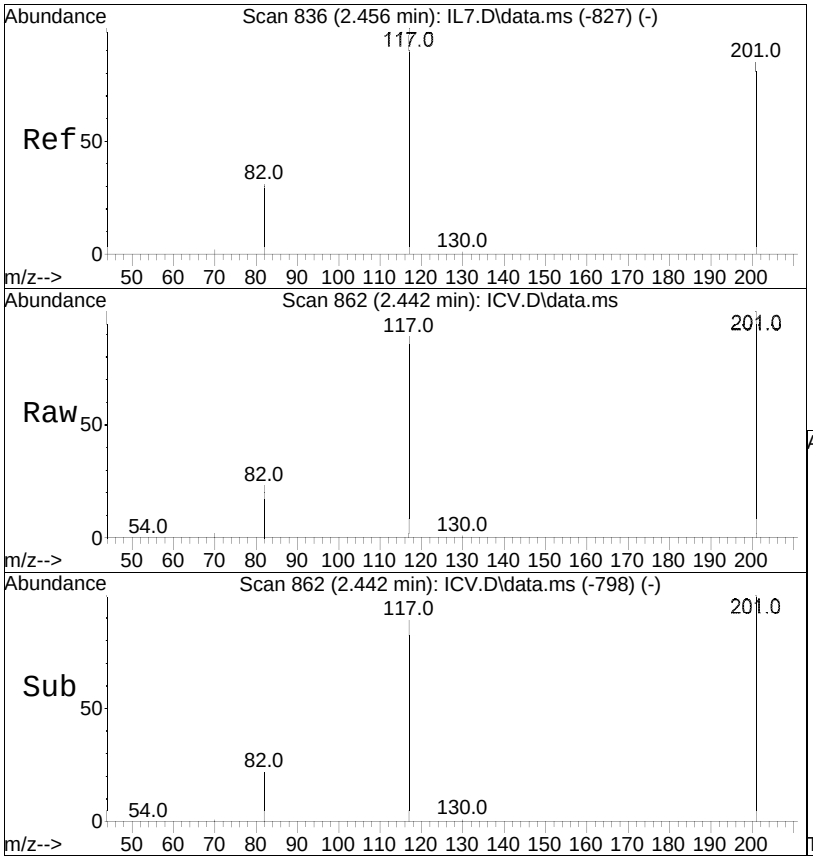


#5
n-nitrosodi-n-propylamine
Concen: 1033.97 ng/ml
RT: 2.383 min Scan# 825
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion: 70 Resp: 7758

Ion	Ratio	Lower	Upper
70	100		
130	22.9	15.0	22.6#

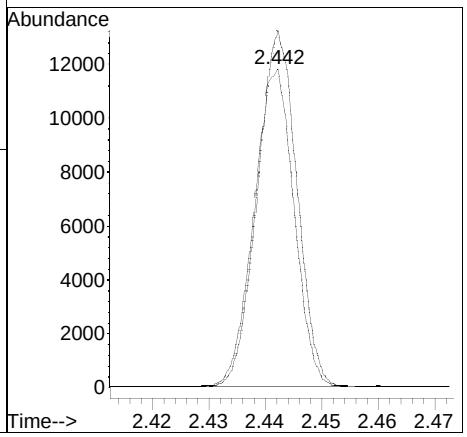


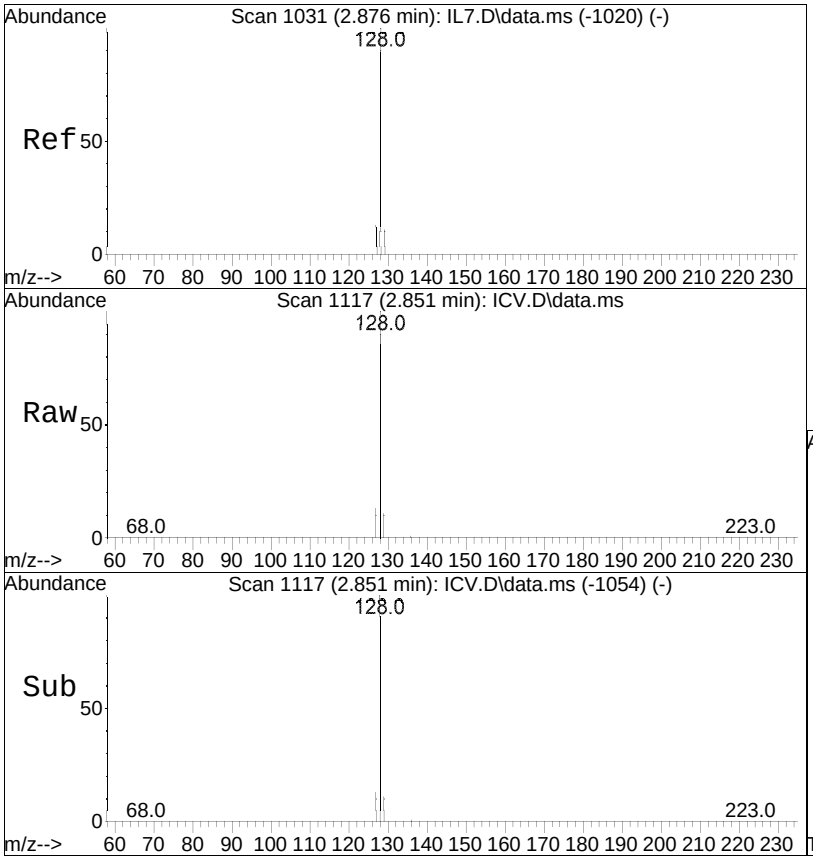


#6
Hexachloroethane
Concen: 1030.73 ng/ml
RT: 2.442 min Scan# 862
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:117 Resp: 5737

Ion	Ratio	Lower	Upper
117	100		
201	110.8	81.5	122.3

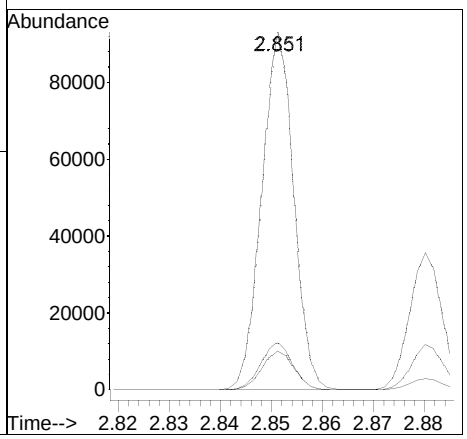


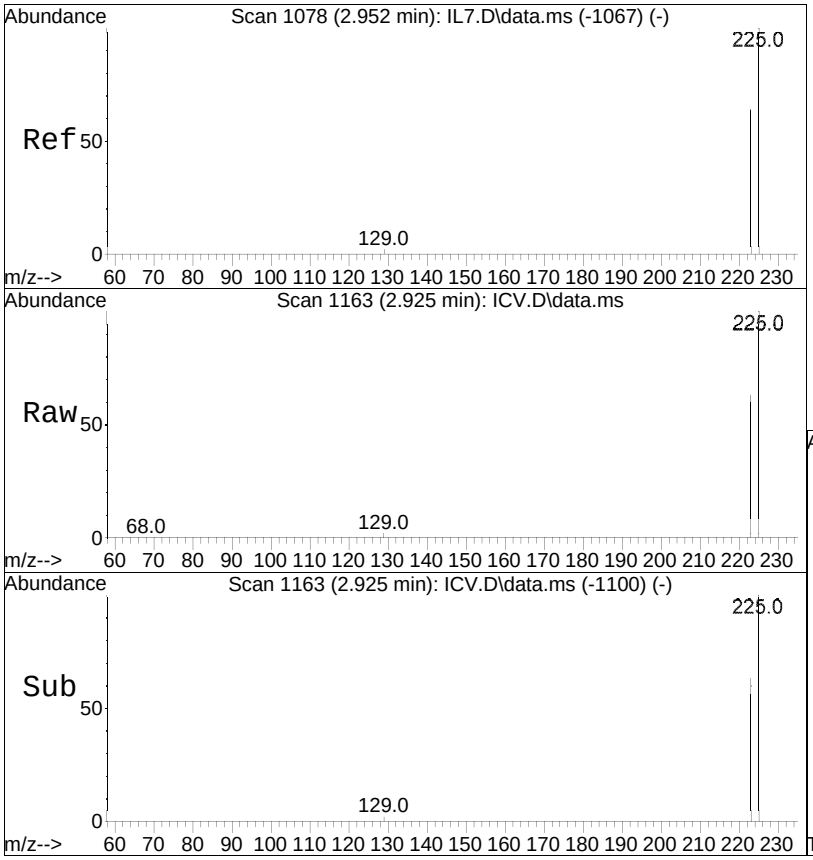


#9
Naphthalene
Concen: 1063.36 ng/ml
RT: 2.851 min Scan# 1117
Delta R.T. 0.001 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:128 Resp: 40083

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	13.1	10.6	15.8

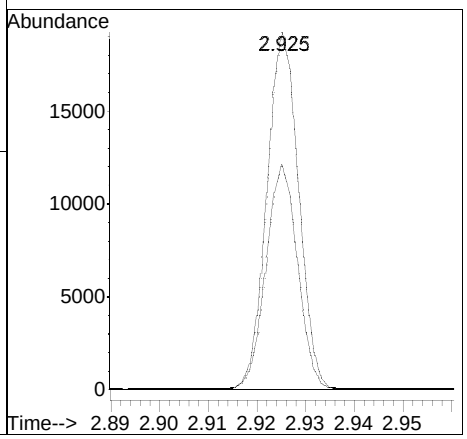


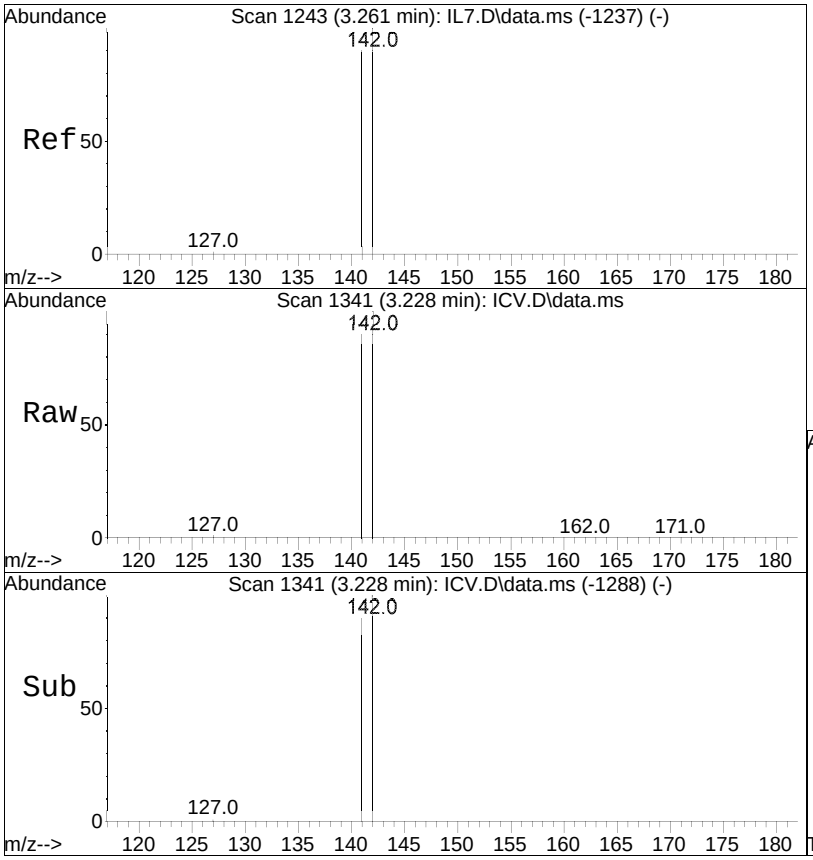


#10
Hexachlorobutadiene
Concen: 1053.23 ng/ml
RT: 2.925 min Scan# 1163
Delta R.T. 0.001 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:225 Resp: 8550

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.1	75.1

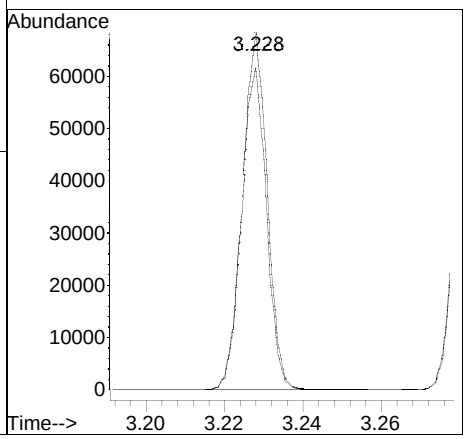


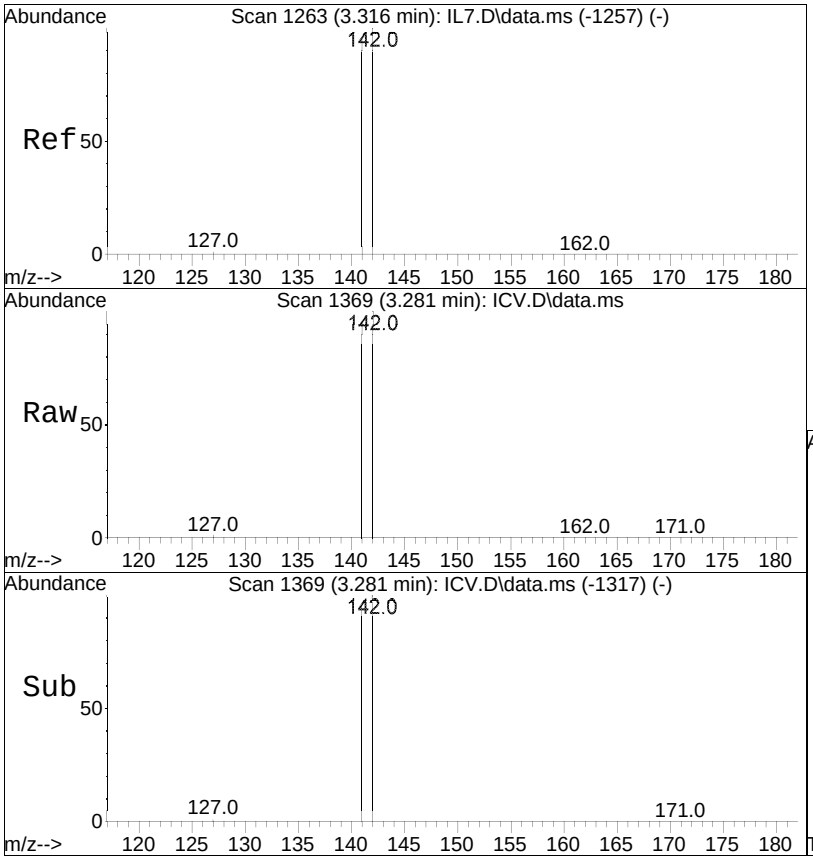


#11
2-Methylnaphthalene
Concen: 1055.68 ng/ml
RT: 3.228 min Scan# 1341
Delta R.T. 0.001 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:142 Resp: 29423

Ion	Ratio	Lower	Upper
142	100		
141	91.8	74.1	111.1

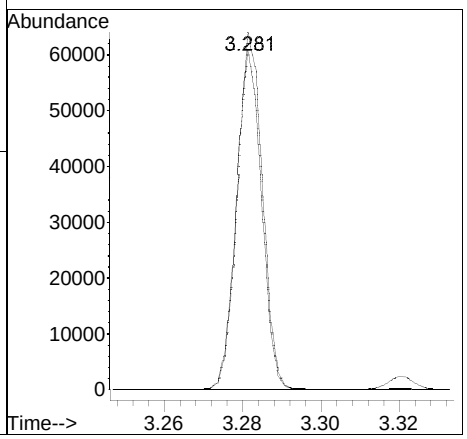


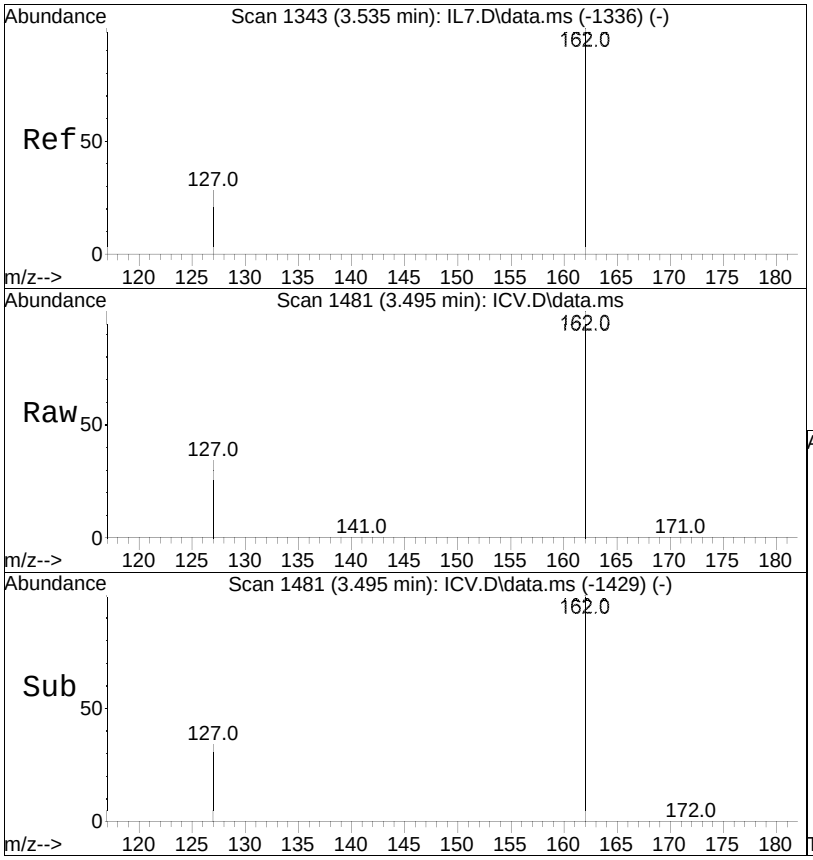


#12
1-Methylnaphthalene
Concen: 1090.91 ng/ml
RT: 3.281 min Scan# 1369
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:142 Resp: 28038

Ion	Ratio	Lower	Upper
142	100		
141	94.7	76.6	114.8

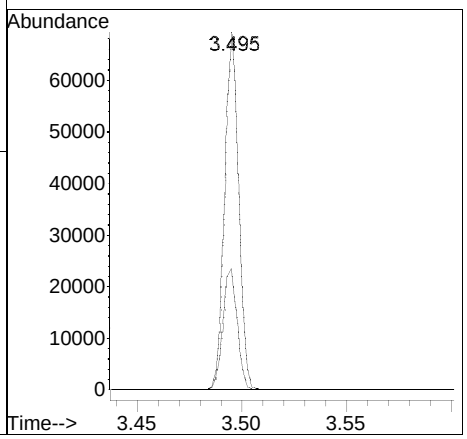


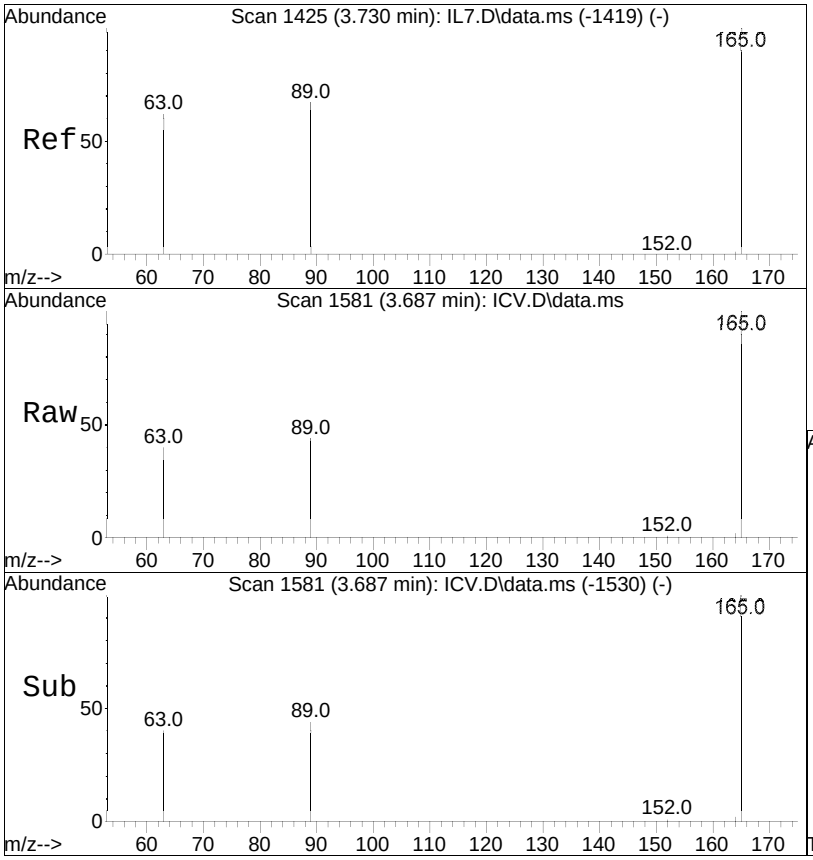


#14
2-Chloronaphthalene
Concen: 1056.07 ng/ml
RT: 3.495 min Scan# 1481
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:162 Resp: 31353

Ion	Ratio	Lower	Upper
162	100		
127	34.7	29.7	44.5

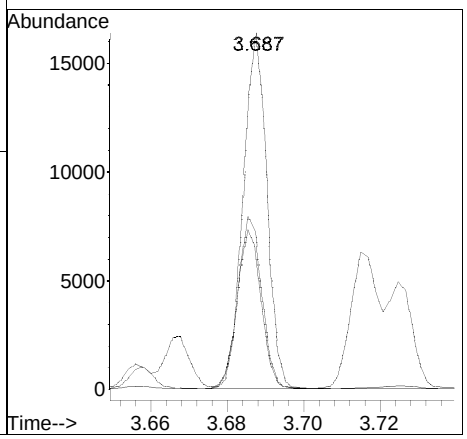


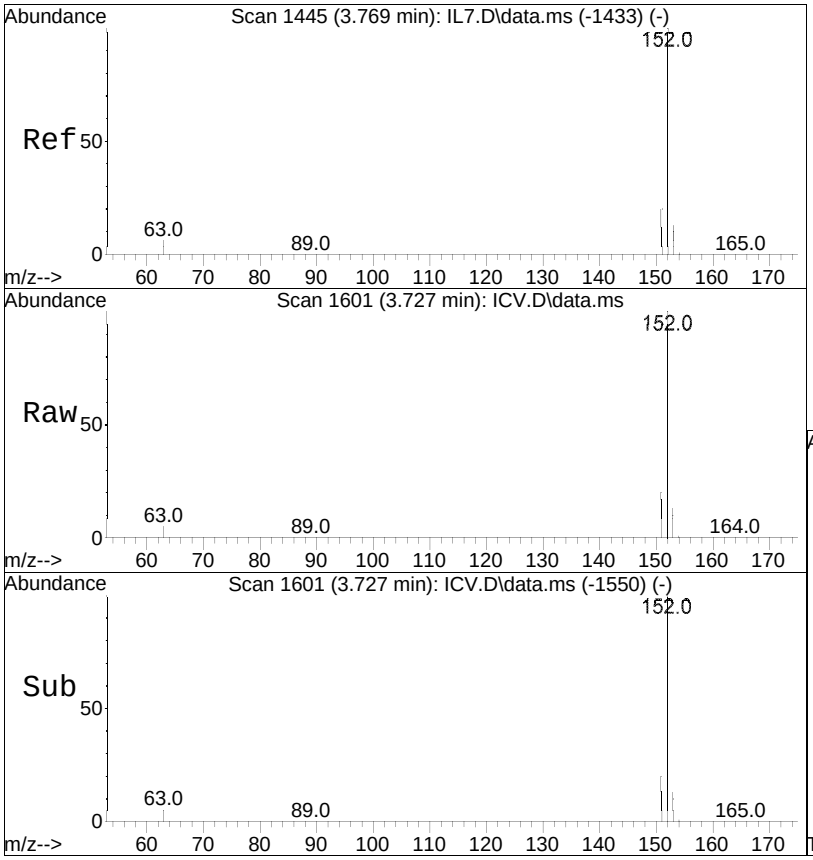


#15
2,6-Dinitrotoluene
Concen: 1039.70 ng/ml
RT: 3.687 min Scan# 1581
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:165 Resp: 6970

Ion	Ratio	Lower	Upper
165	100		
89	50.2	52.8	79.2#
63	46.2	50.9	76.3#

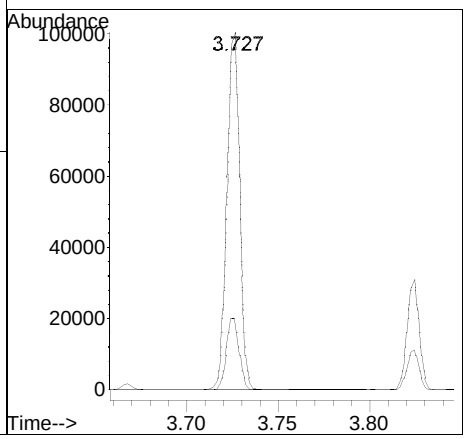


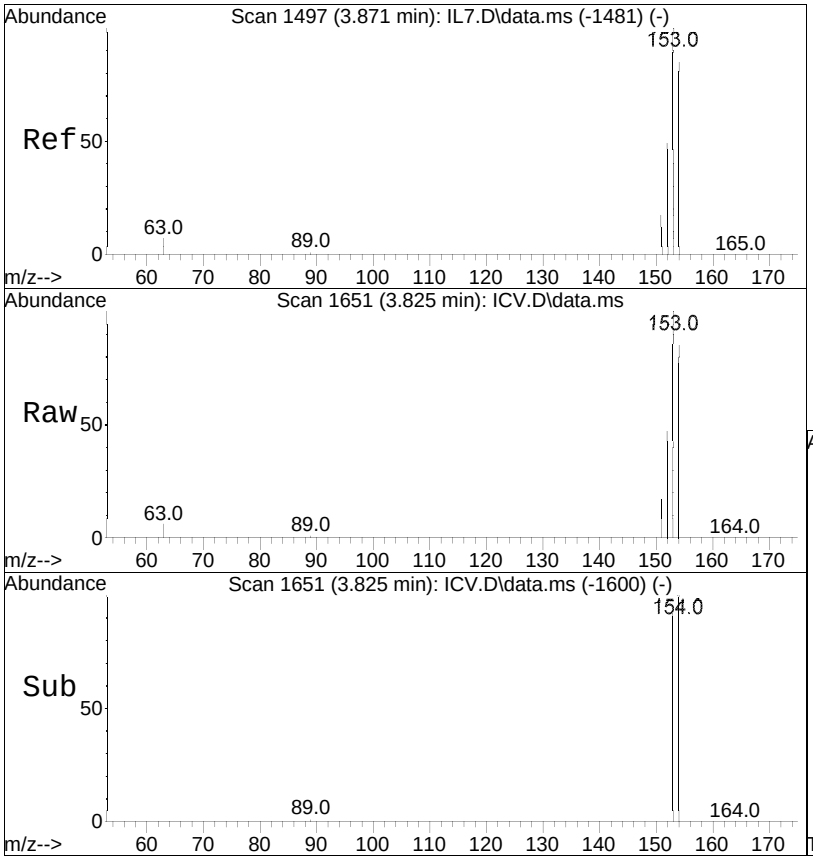


#16
Acenaphthylene
Concen: 1104.82 ng/ml
RT: 3.727 min Scan# 1601
Delta R.T. -0.000 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:152 Resp: 48743

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.0	24.0

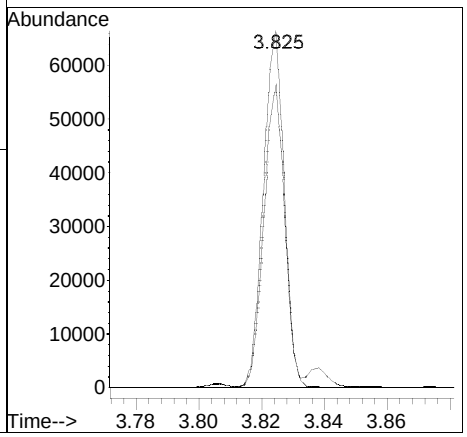


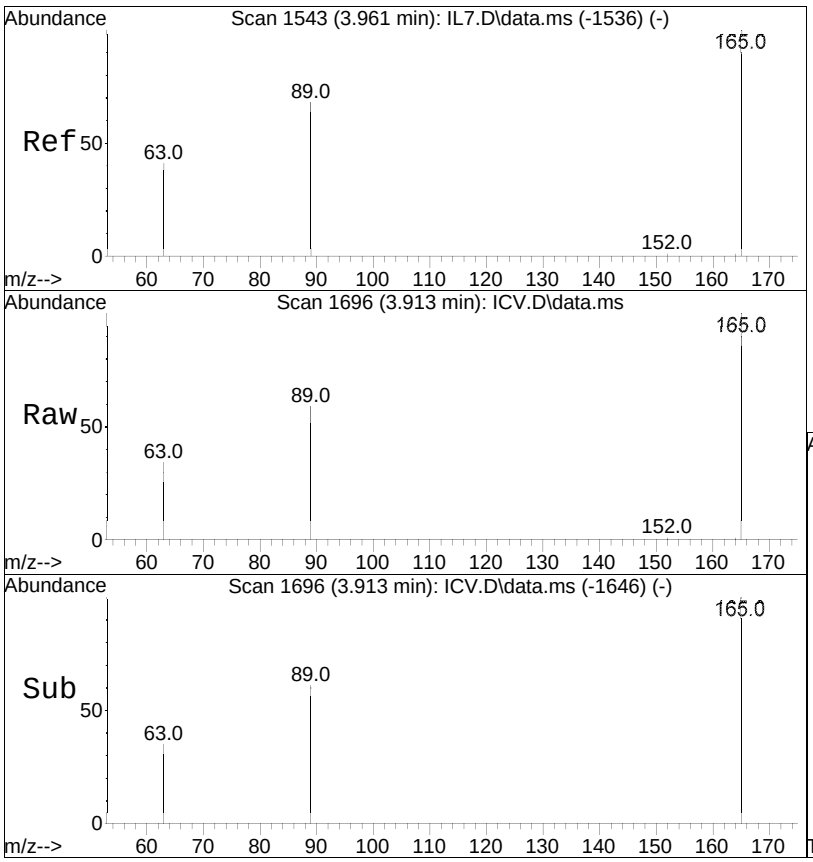


#18
Acenaphthene
Concen: 1068.59 ng/ml
RT: 3.825 min Scan# 1651
Delta R.T. -0.000 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:153 Resp: 30119

Ion	Ratio	Lower	Upper
153	100		
154	85.1	66.9	100.3

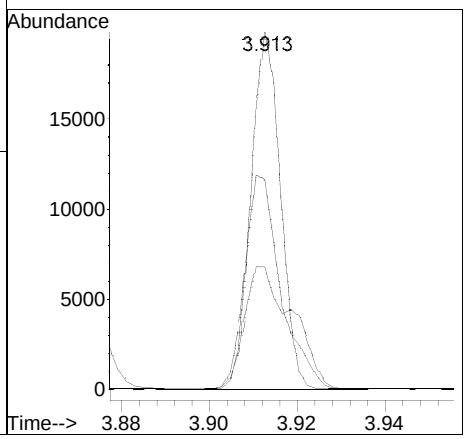


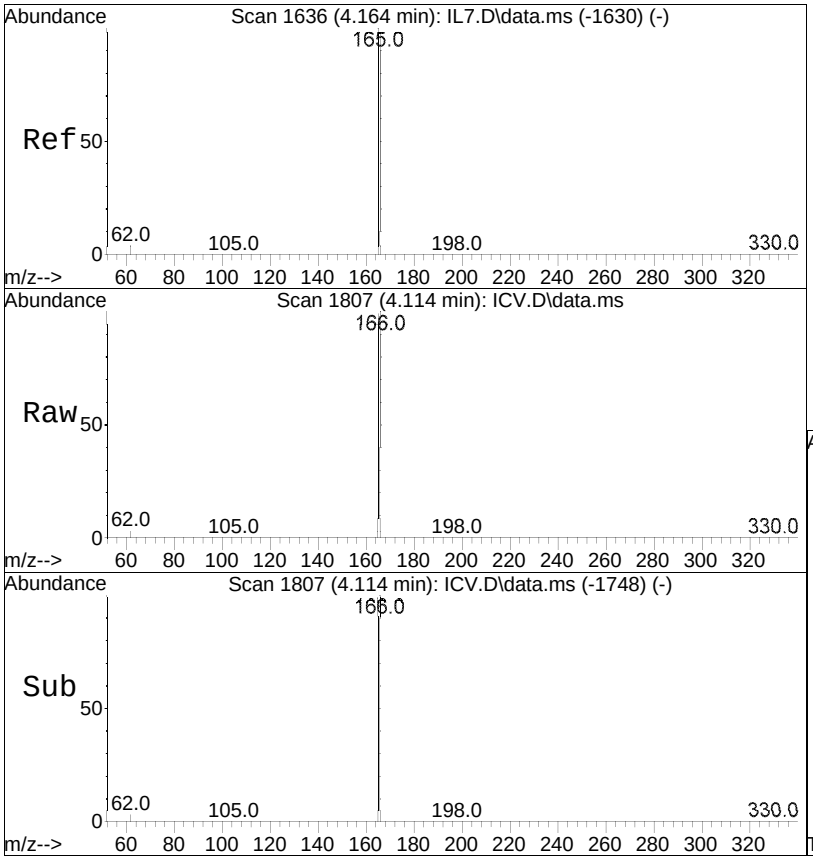


#19
2,4-Dinitrotoluene
Concen: 1082.17 ng/ml
RT: 3.913 min Scan# 1696
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:165 Resp: 9094

Ion	Ratio	Lower	Upper
165	100		
89	73.0	80.1	120.1#
63	55.0	38.9	58.3

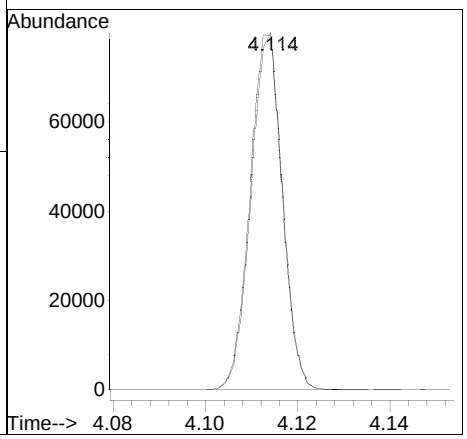


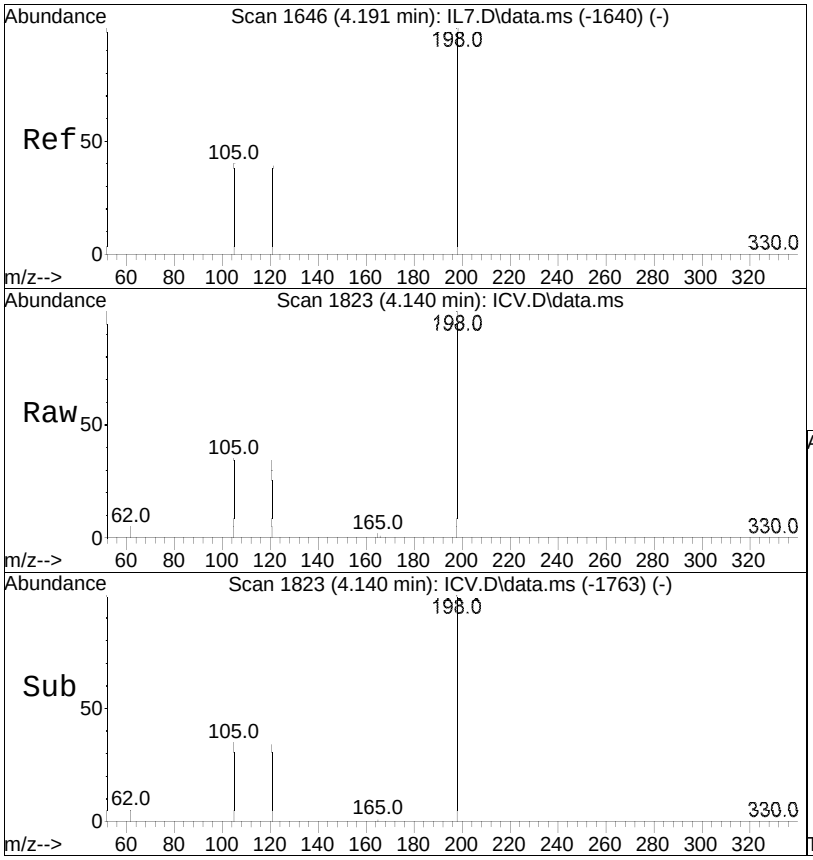


#20
Fluorene
Concen: 1122.15 ng/ml
RT: 4.114 min Scan# 1807
Delta R.T. 0.000 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:166 Resp: 37806

Ion	Ratio	Lower	Upper
166	100		
165	101.7	82.9	124.3

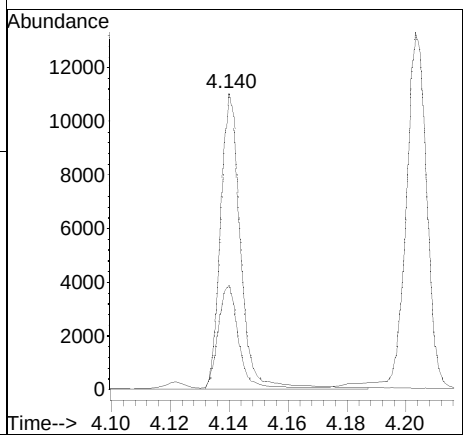


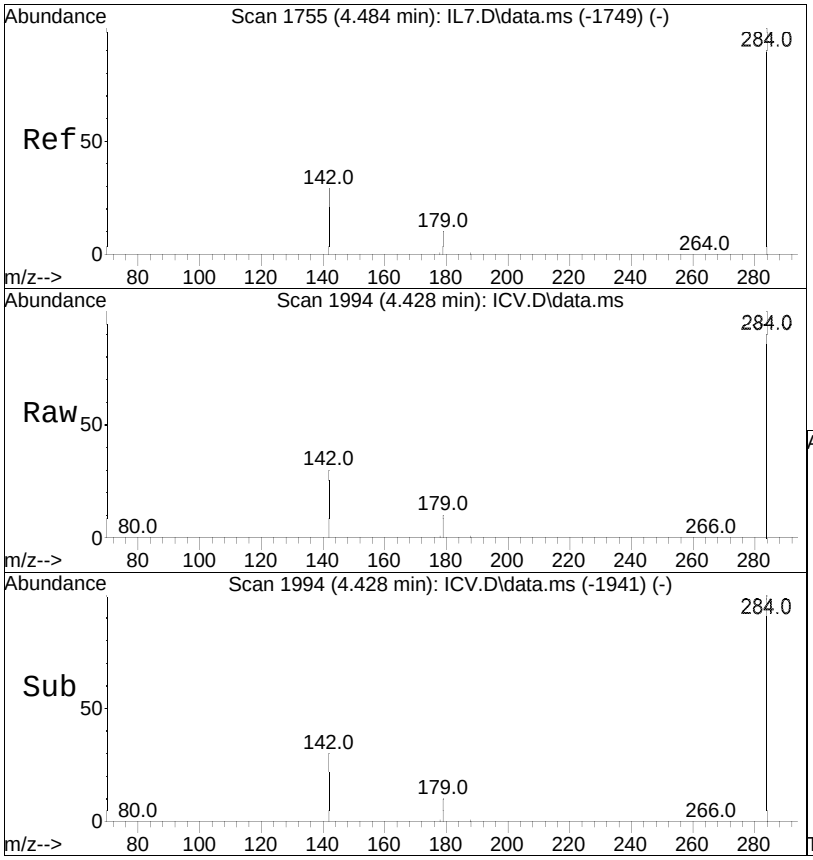


#23
4,6-Dinitro-o-cresol
Concen: 868.95 ng/ml
RT: 4.140 min Scan# 1823
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:198 Resp: 5185

Ion	Ratio	Lower	Upper
198	100		
105	34.4	32.2	48.4

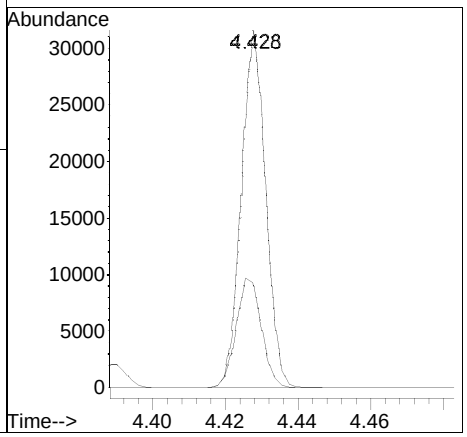


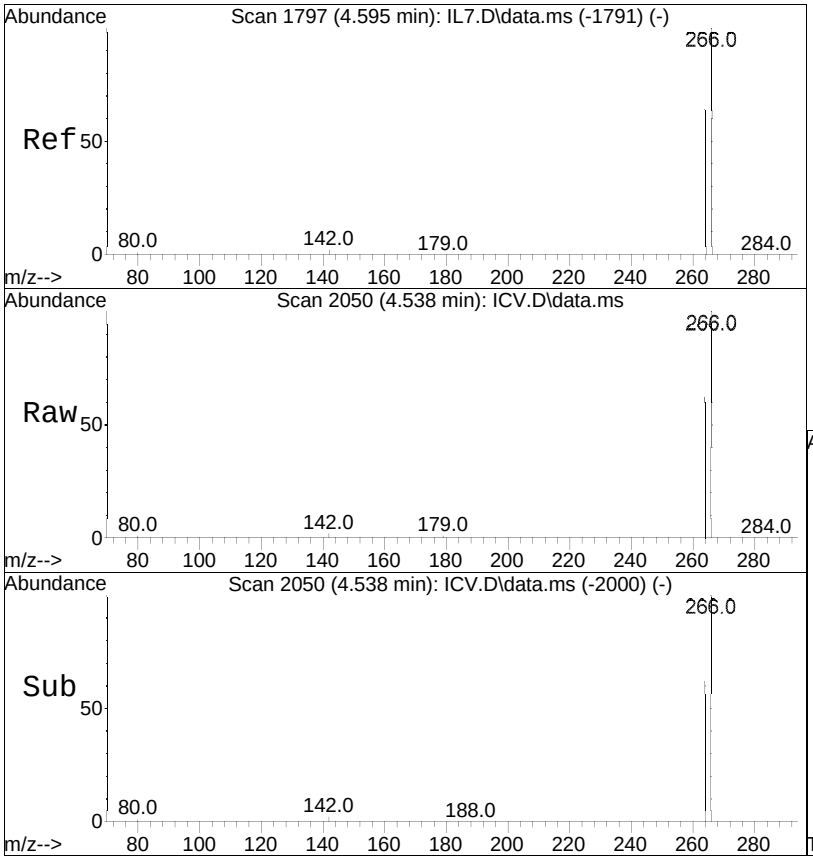


#24
Hexachlorobenzene
Concen: 1070.97 ng/ml
RT: 4.428 min Scan# 1994
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:284 Resp: 14437

Ion	Ratio	Lower	Upper
284	100		
142	32.2	26.9	40.3

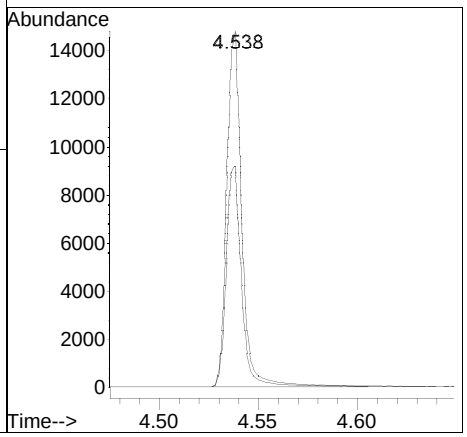


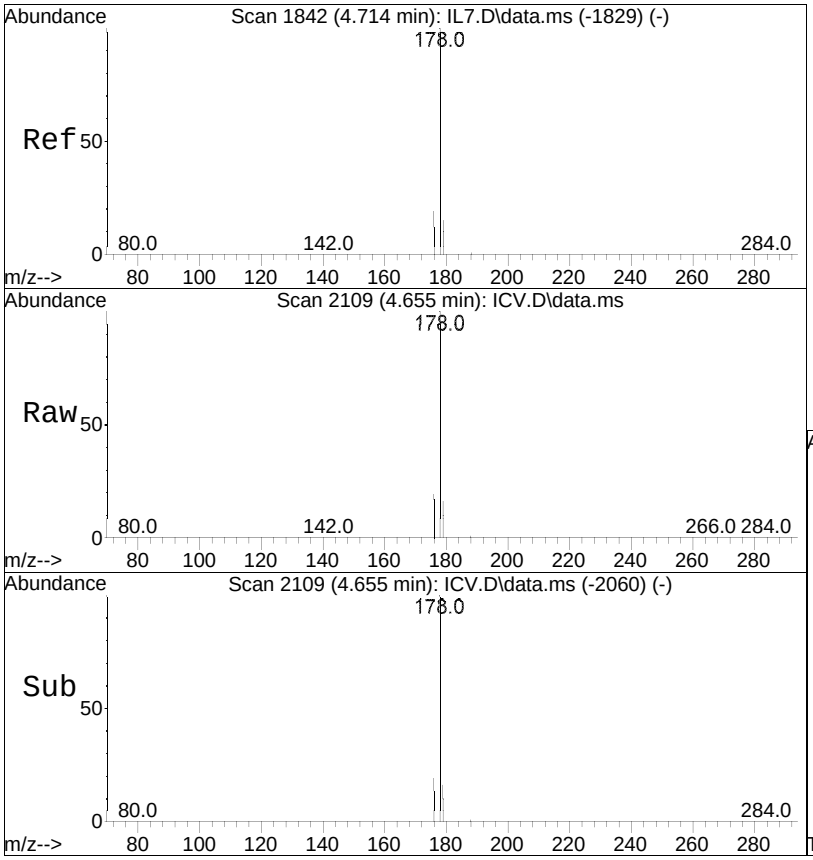


#25
Pentachlorophenol
Concen: 905.88 ng/ml
RT: 4.538 min Scan# 2050
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:266 Resp: 7716

Ion	Ratio	Lower	Upper
266	100		
264	63.2	50.7	76.1

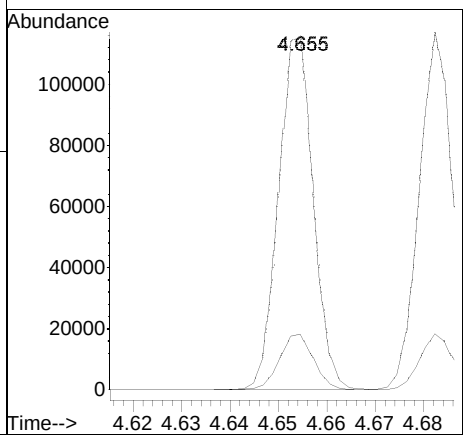


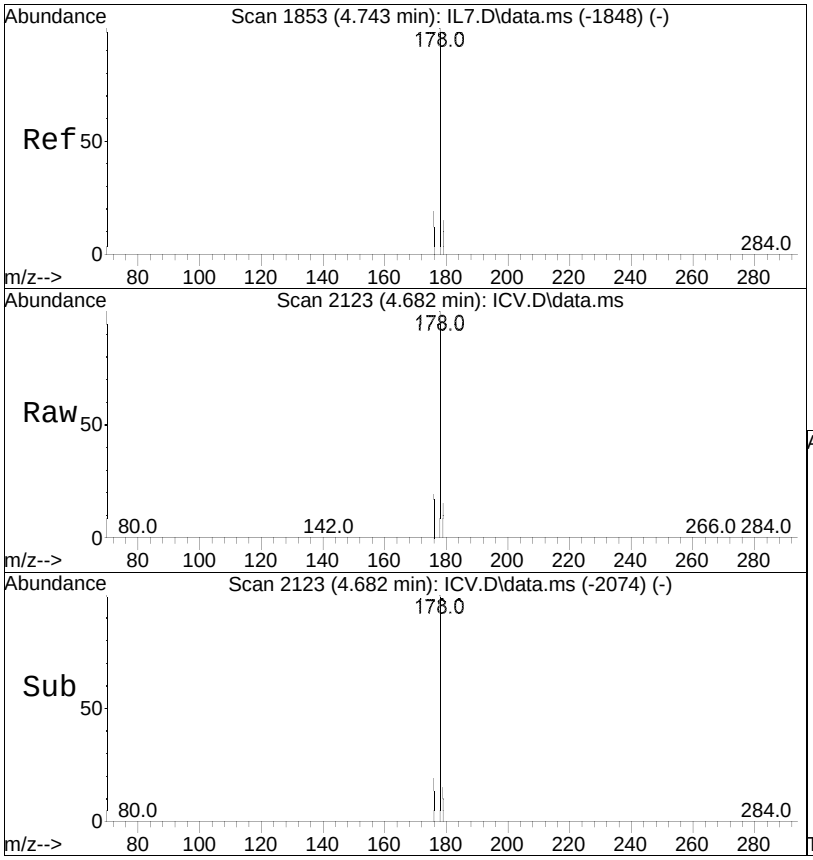


#26
Phenanthrene
Concen: 1083.66 ng/ml
RT: 4.655 min Scan# 2109
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:178 Resp: 57399

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.3	18.5

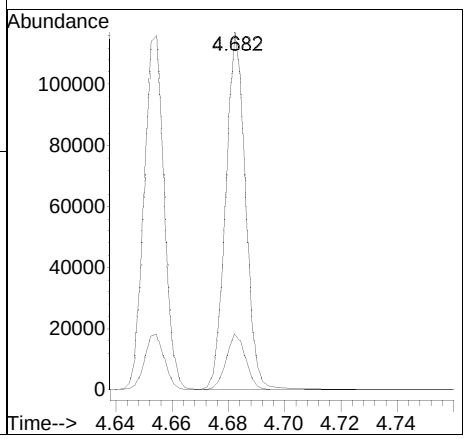


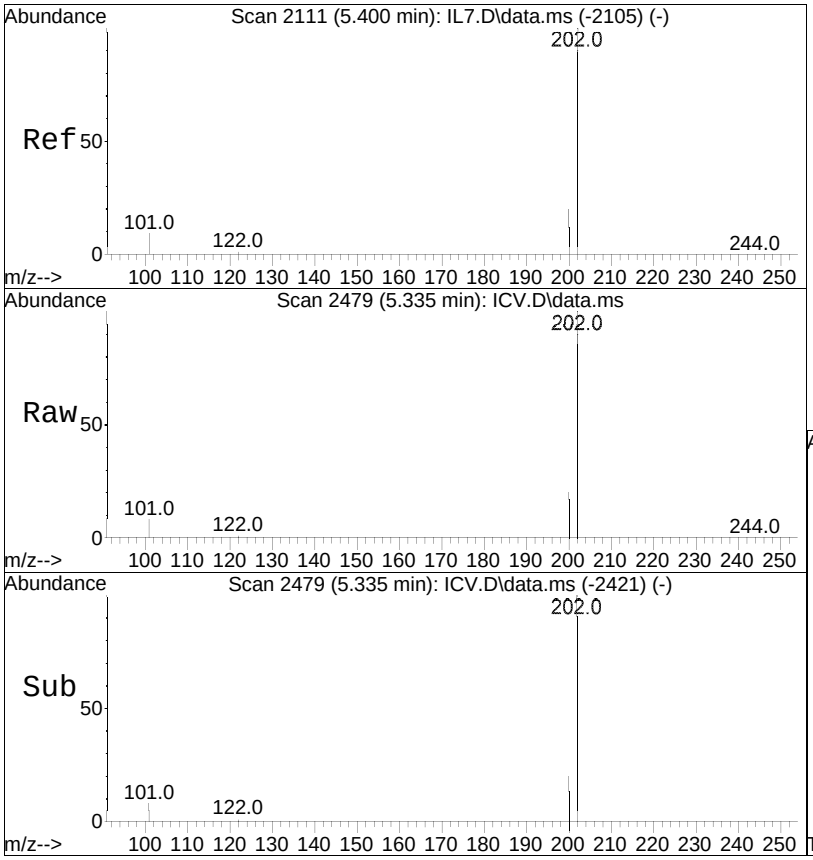


#27
Anthracene
Concen: 1088.58 ng/ml
RT: 4.682 min Scan# 2123
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:178 Resp: 57179

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.4

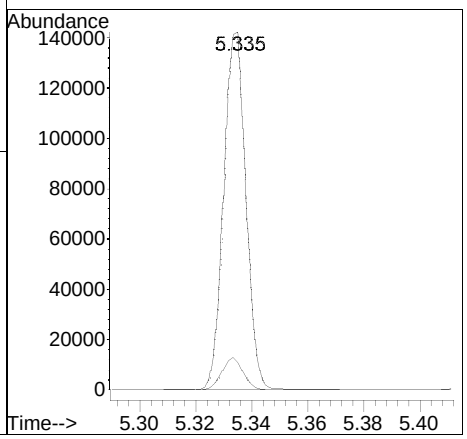


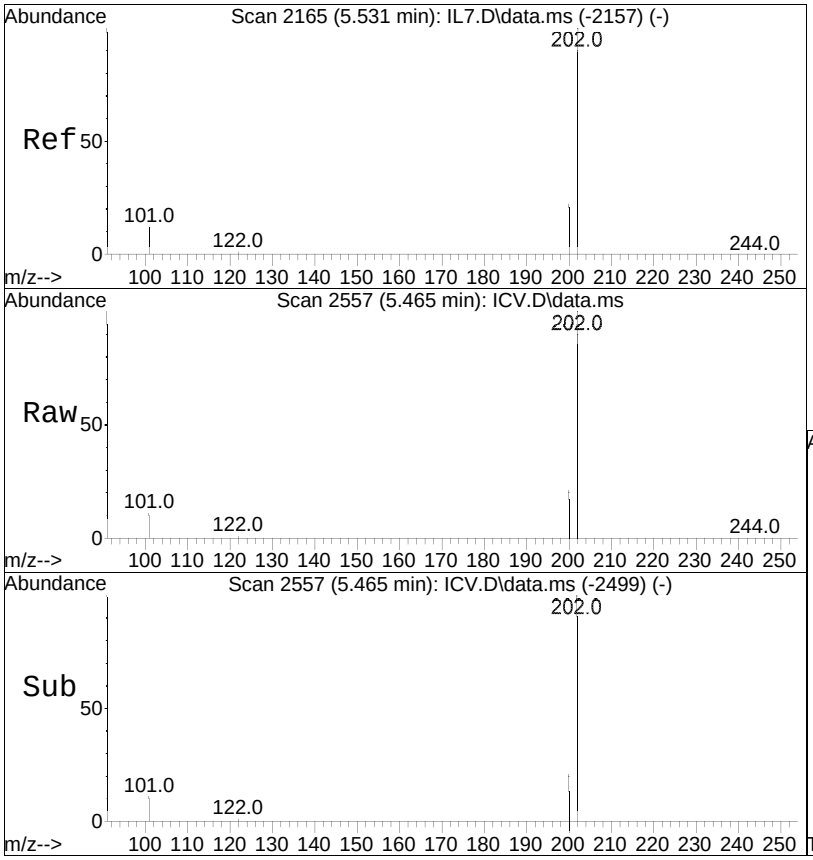


#28
Fluoranthene
Concen: 1100.58 ng/ml
RT: 5.335 min Scan# 2479
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:202 Resp: 76831

Ion	Ratio	Lower	Upper
202	100		
101	8.6	8.3	12.5

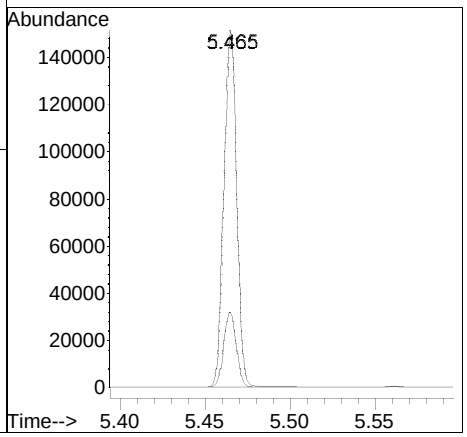


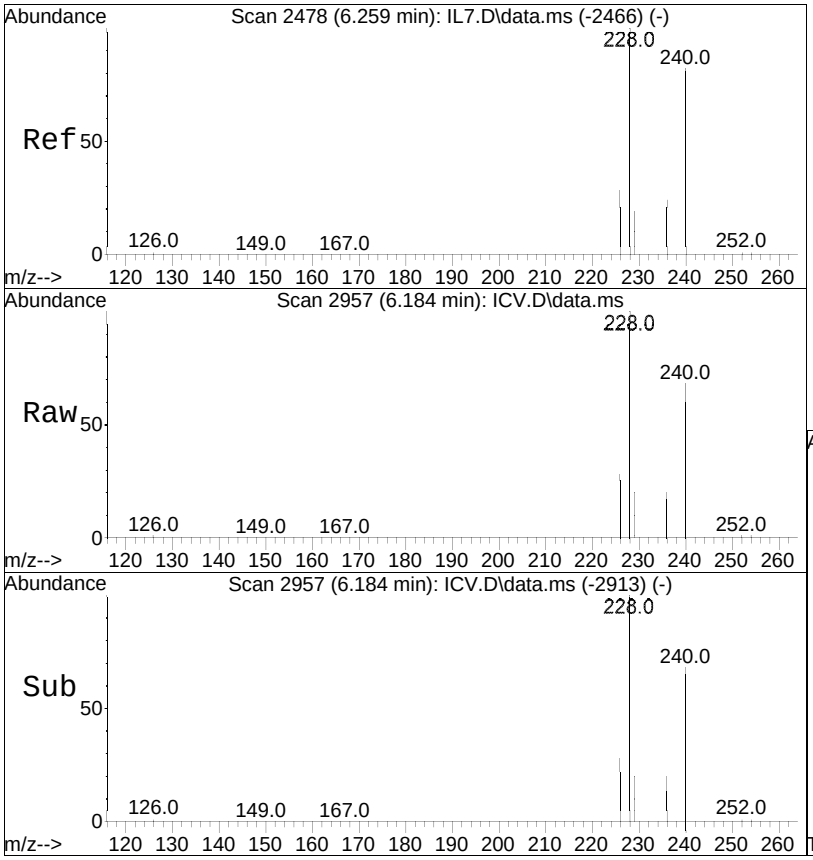


#29
Pyrene
Concen: 1085.80 ng/ml
RT: 5.465 min Scan# 2557
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:202 Resp: 77872

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.3	25.9

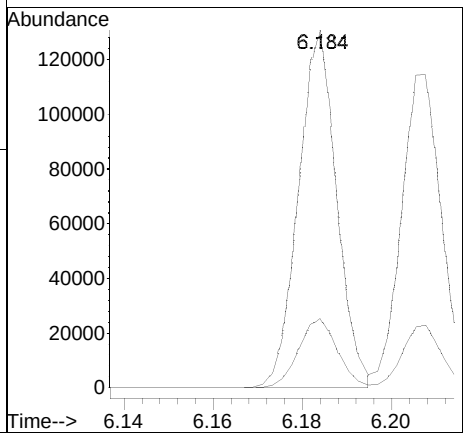


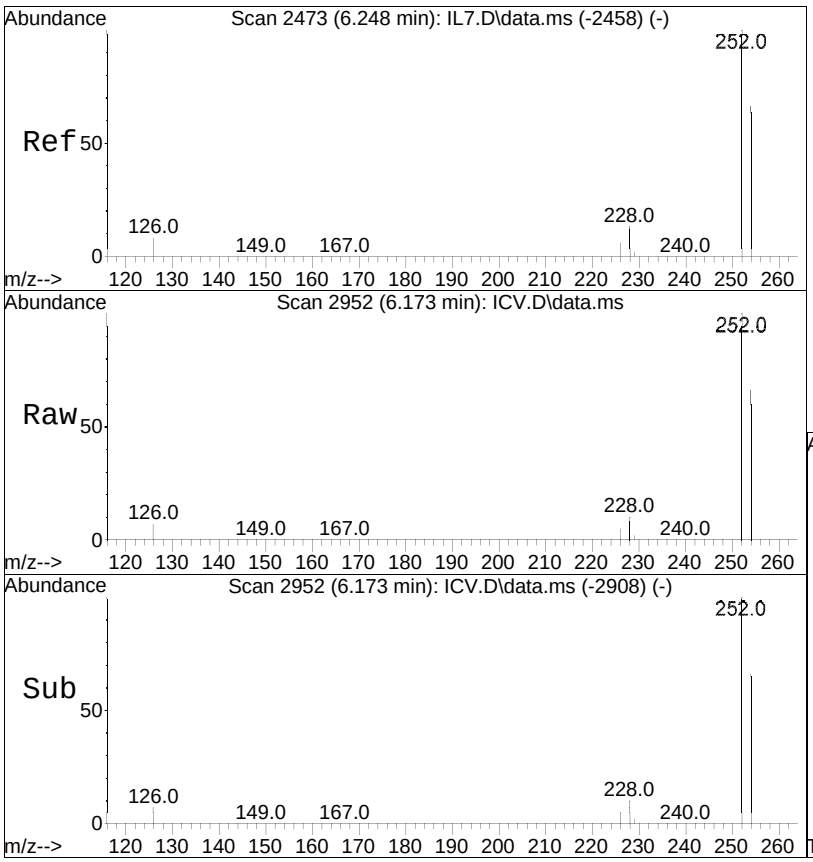


#32
Benzo[a]anthracene
Concen: 1130.17 ng/ml
RT: 6.184 min Scan# 2957
Delta R.T. -0.006 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:228 Resp: 77469

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.6	23.4

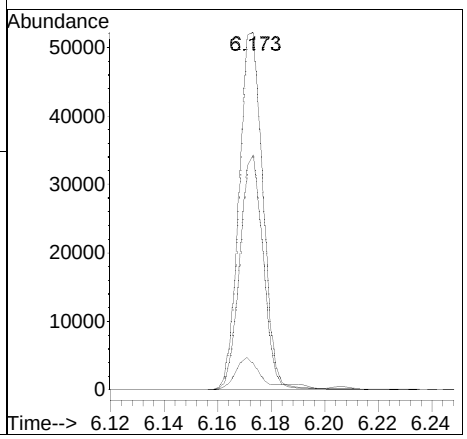


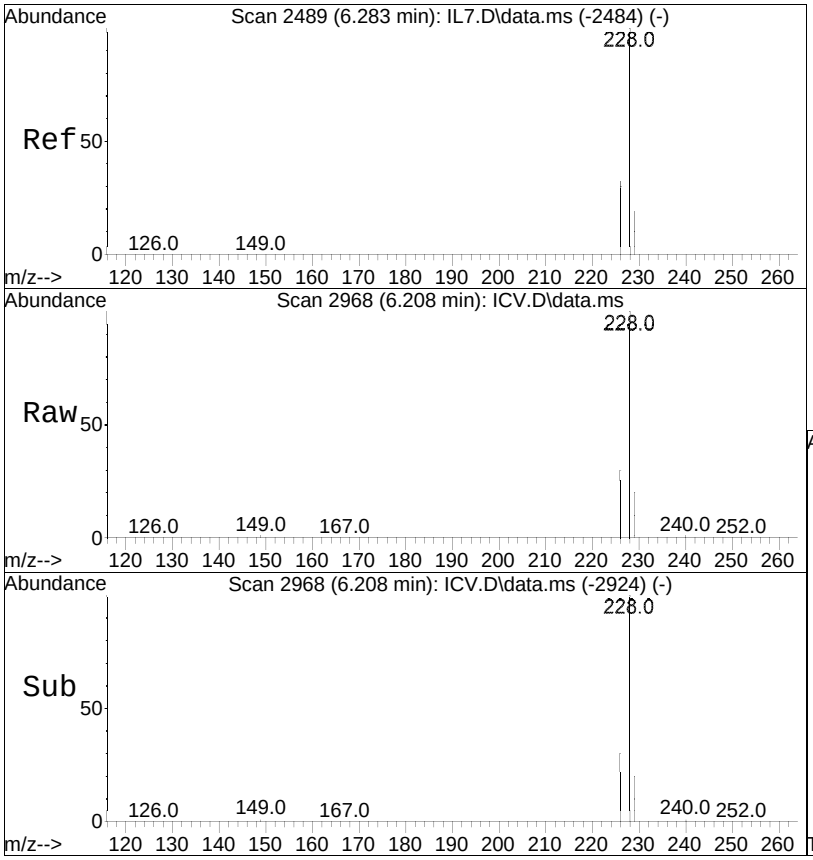


#33
3,3'-Dichlorobenzidine
Concen: 1025.78 ng/ml
RT: 6.173 min Scan# 2952
Delta R.T. -0.007 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:252 Resp: 31712

Ion	Ratio	Lower	Upper
252	100		
126	8.9	7.7	11.5
254	64.8	52.0	78.0

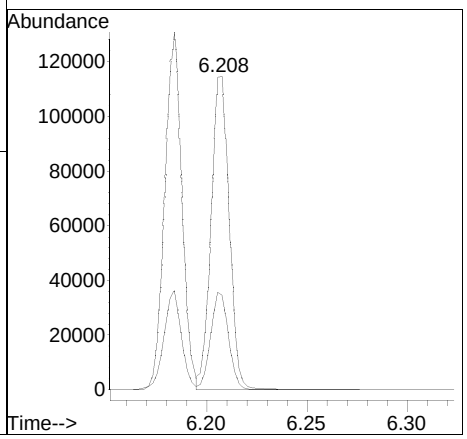


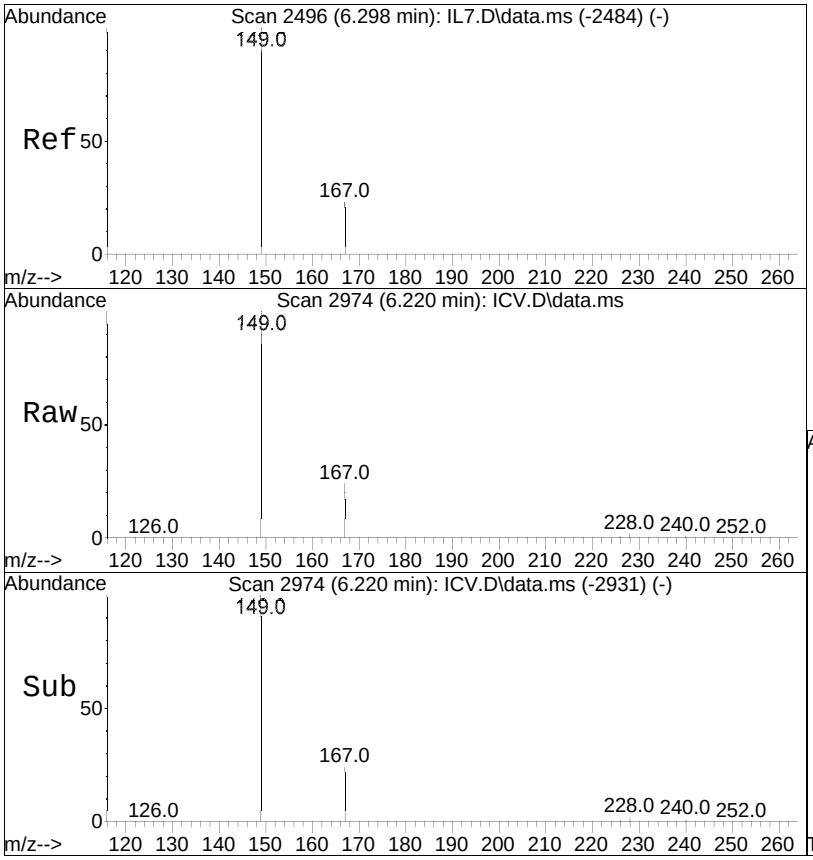


#34
Chrysene
Concen: 1060.55 ng/ml
RT: 6.208 min Scan# 2968
Delta R.T. -0.006 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:228 Resp: 71624

Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.5	36.7

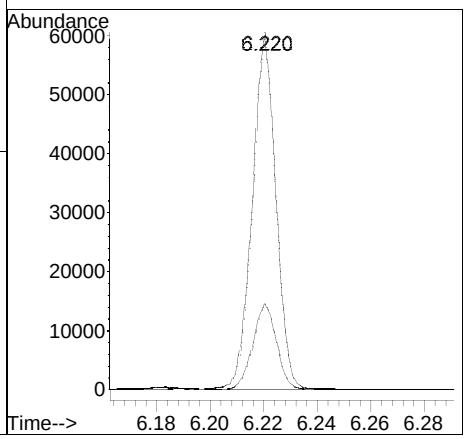


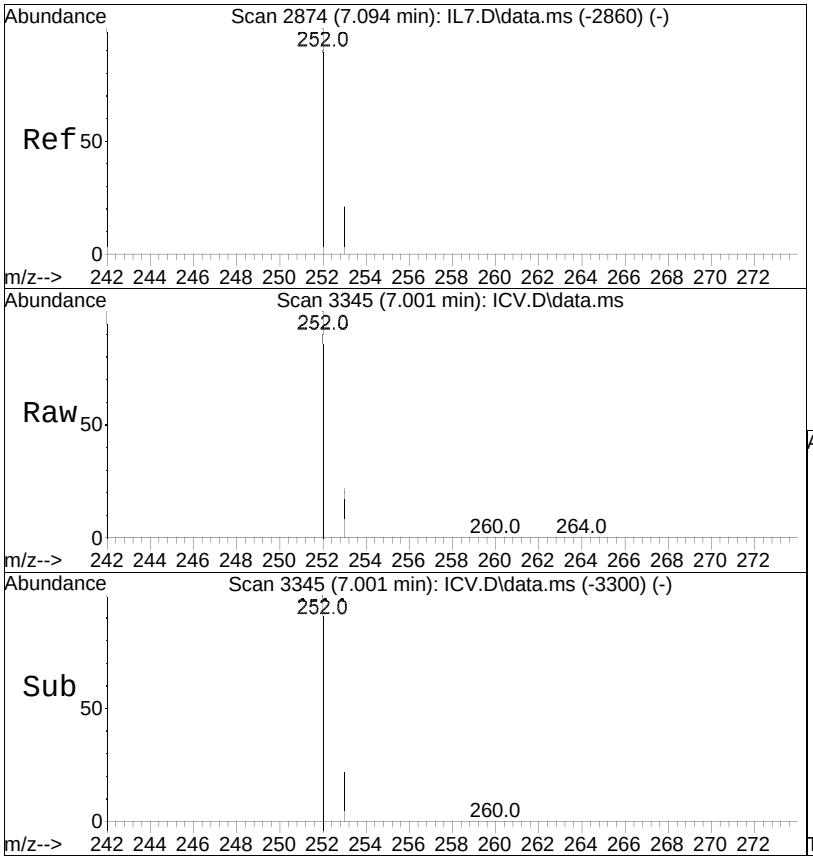


#35
Bis(2-ethylhexyl)phthalate
Concen: 813.98 ng/ml
RT: 6.220 min Scan# 2974
Delta R.T. -0.009 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:149 Resp: 36205

Ion	Ratio	Lower	Upper
149	100		
167	24.2	18.5	27.7

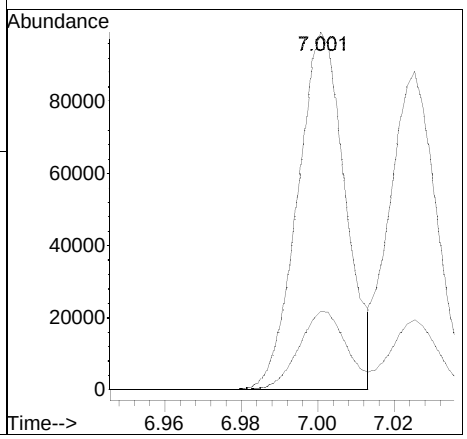


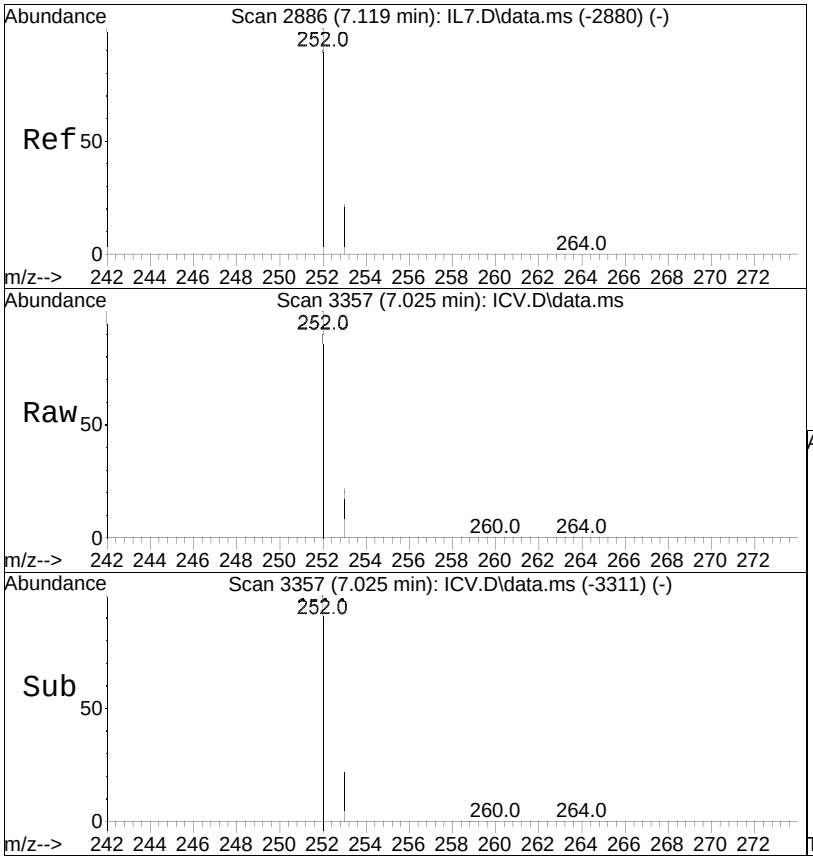


#37
Benzo[b]fluoranthene
Concen: 1104.62 ng/ml
RT: 7.001 min Scan# 3345
Delta R.T. -0.008 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:252 Resp: 86223

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.3	25.9

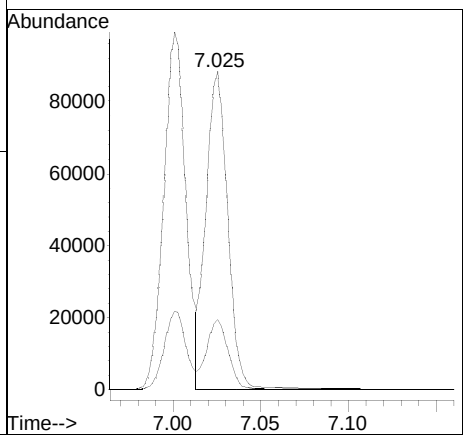


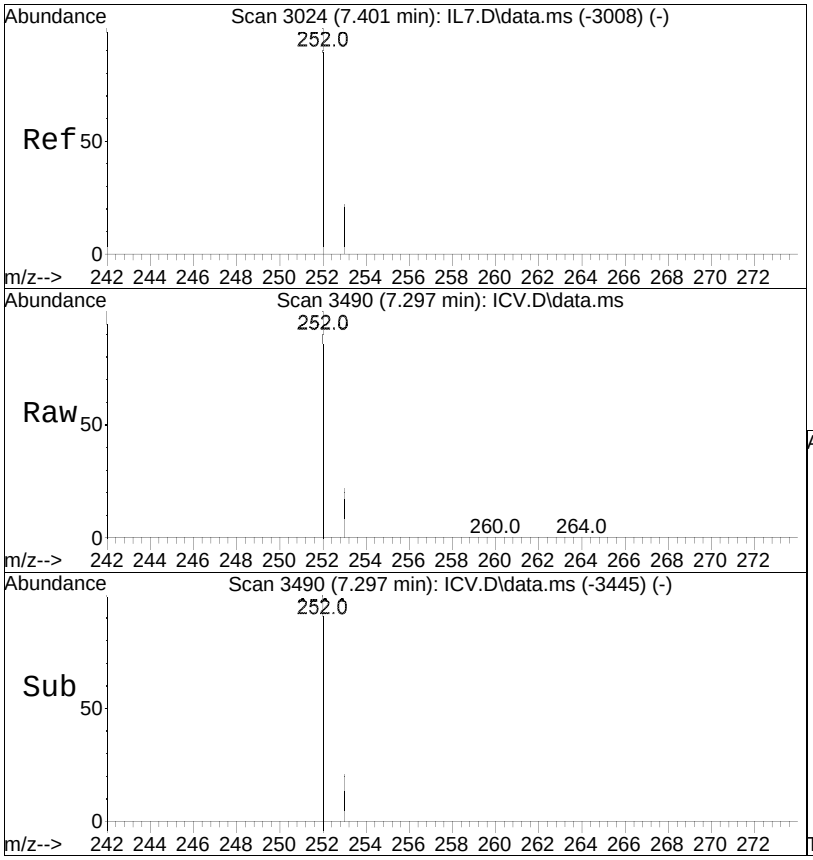


#38
Benzo[k]fluoranthene
Concen: 1021.78 ng/ml
RT: 7.025 min Scan# 3357
Delta R.T. -0.006 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:252 Resp: 75734

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.4	26.2

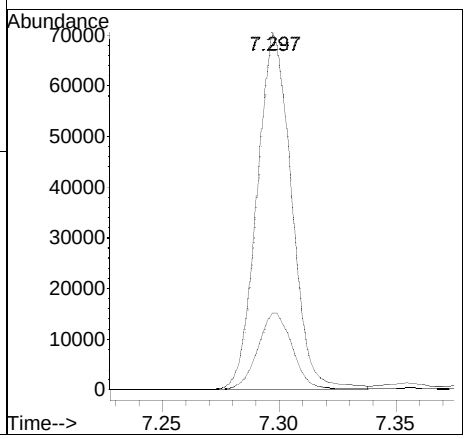


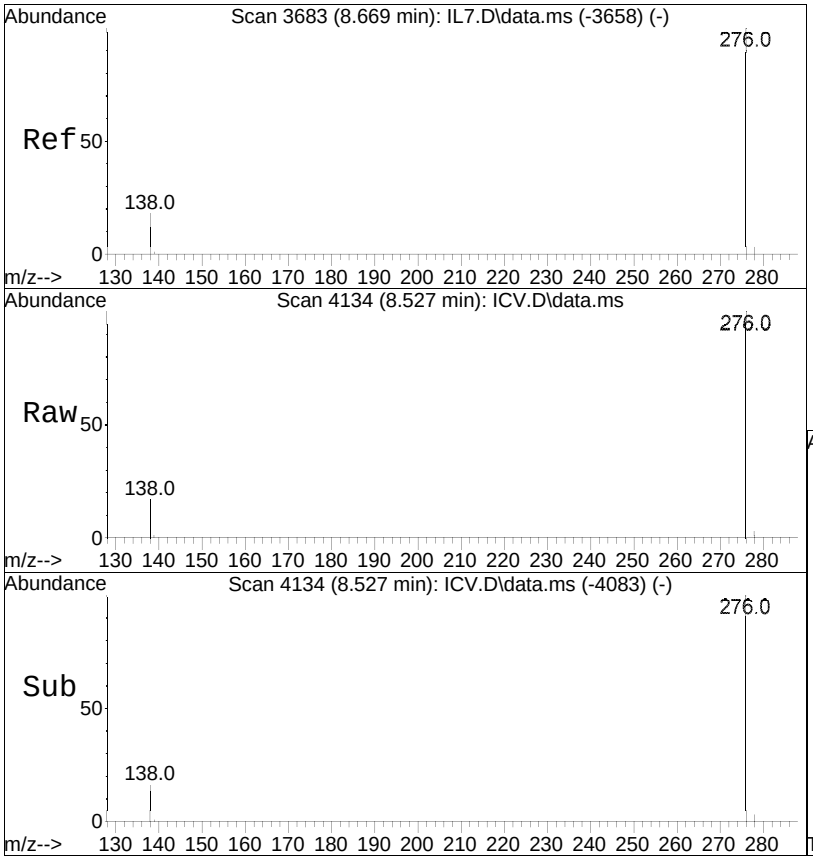


#39
Benzo[a]pyrene
Concen: 1037.41 ng/ml
RT: 7.297 min Scan# 3490
Delta R.T. -0.008 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:252 Resp: 71277

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0

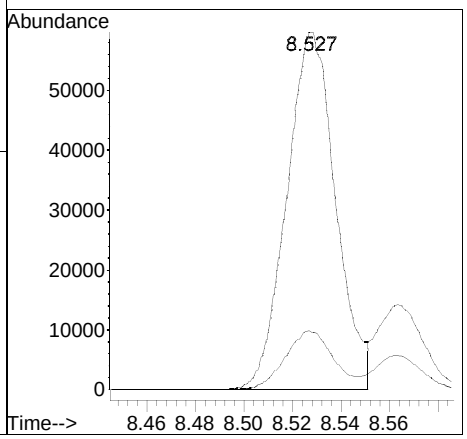


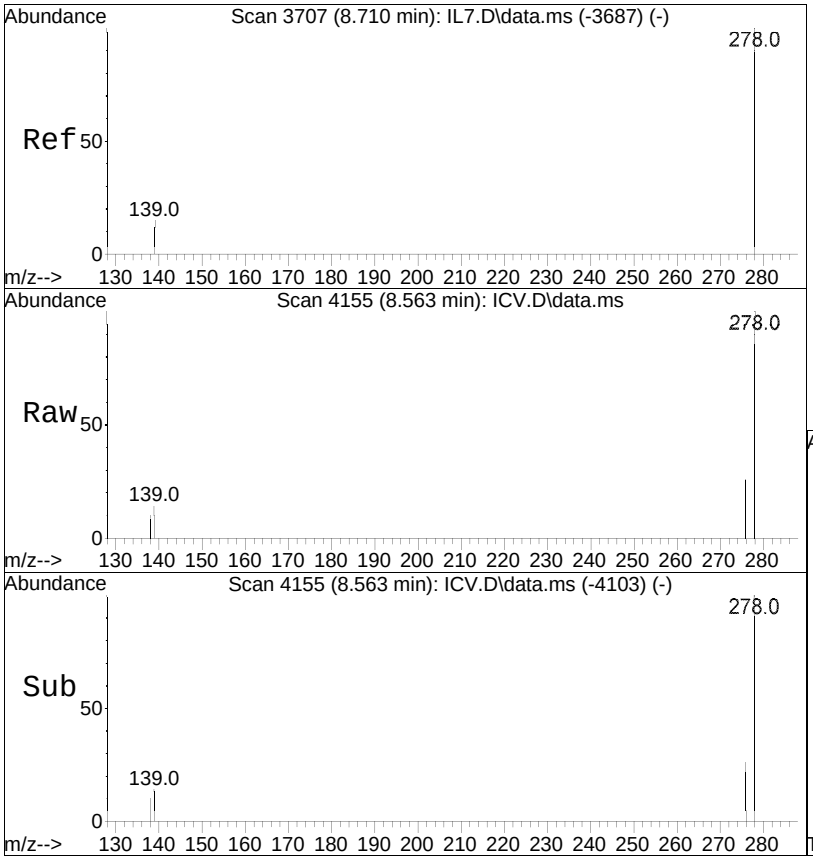


#40
Indeno[1,2,3-cd]pyrene
Concen: 1110.34 ng/ml
RT: 8.527 min Scan# 4134
Delta R.T. -0.011 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:276 Resp: 82912

Ion	Ratio	Lower	Upper
276	100		
138	16.1	14.8	22.2

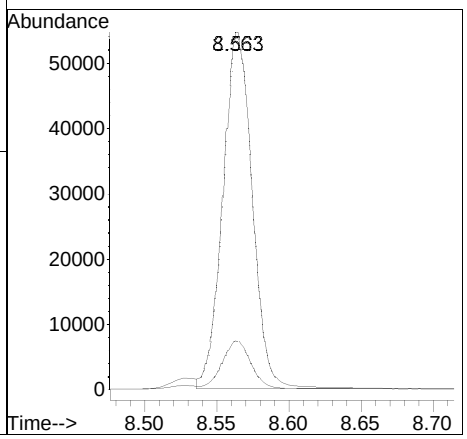


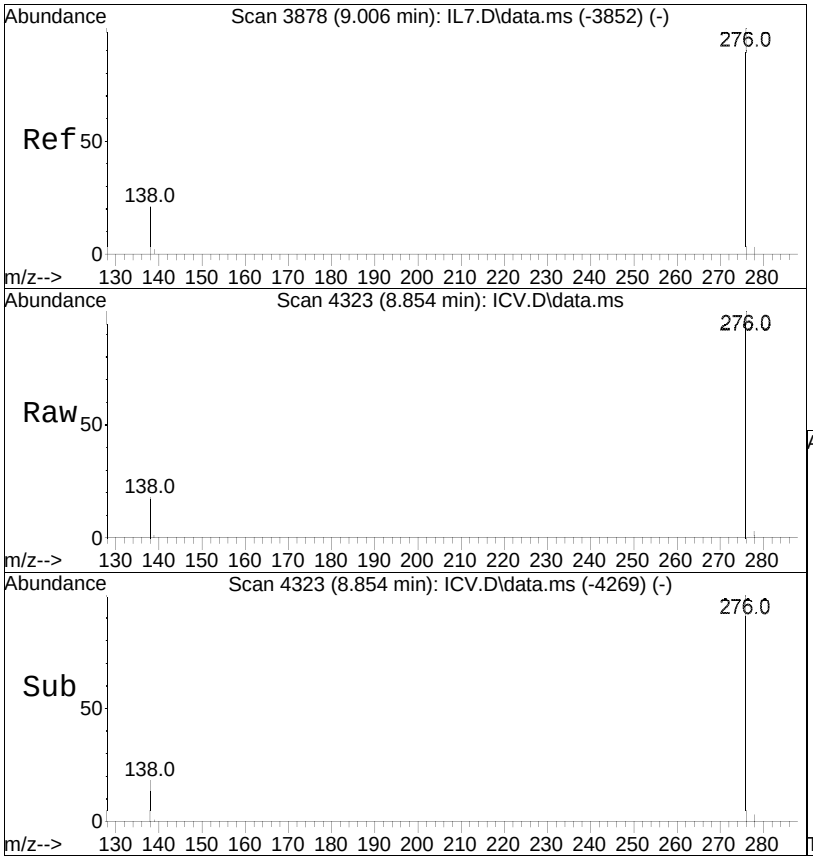


#41
Dibenzo[a,h]anthracene
Concen: 1100.81 ng/ml
RT: 8.563 min Scan# 4155
Delta R.T. -0.011 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:278 Resp: 76479

Ion	Ratio	Lower	Upper
278	100		
139	13.4	12.2	18.4

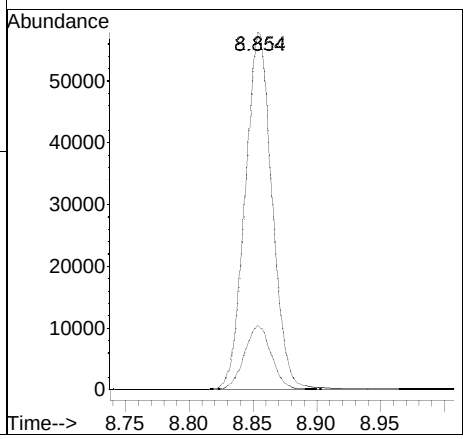




#42
Benzo[g,h,i]perylene
Concen: 1103.05 ng/ml
RT: 8.854 min Scan# 4323
Delta R.T. -0.007 min
Lab File: ICV.D
Acq: 07 Dec 2023 03:59 pm

Tgt Ion:276 Resp: 83784

Ion	Ratio	Lower	Upper
276	100		
138	18.1	16.8	25.2



Manual Integration Report

Data Path	: I:\8270SIM\sv119\231207nLVQ	Method	: SIM-LVI_231207n_sv119.M
Data File	: ICV.D	Operator	: sv119:dv
Date Inj'd	: 12/7/2023 3:59 pm	Instrument	: SV119
Sample	: CQICV,32,,1.0 Lot#10193	Quant Date	: 12/8/2023 2:09 pm

There are no manual integrations or false positives in this file.

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: SV119	**Calibration Date**	: 06/04/24 06:49		
Lab File ID	: CCV0604	**Init. Calib. Date(s)**	: 12/07/23	12/07/23	
Sample No	: WG1929299-3	**Init. Calib. Times**	: 13:10	15:42	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	128	0
2-Fluorophenol	1.094	1.168	.05	-6.8	20	126	0
Phenol-d6	1.311	1.34	.05	-2.2	20	128	0
Bis(2-chloroethyl)ether	1.115	1.114	.05	0.1	20	127	0
n-nitrosodi-n-propylamine	0.667	0.76	.05	-13.9	20	140	0
Hexachloroethane	0.495	0.537	.05	-8.5	20	137	0
Nitrobenzene-d5	0.995	1.157	.05	-16.3	20	140	0
Naphthalene-d8	1	1	.05	0	20	120	0
Naphthalene	0.955	0.985	.05	-3.1	20	119	0
Hexachlorobutadiene	0.206	0.239	.05	-16	20	133	0
2-Methylnaphthalene	0.706	0.724	.05	-2.5	20	116	0
1-Methylnaphthalene	0.651	0.646	.05	0.8	20	115	0
2-Fluorobiphenyl	0.893	0.832	.05	6.8	20	107	0
2-Chloronaphthalene	0.752	0.744	.05	1.1	20	116	0
2,6-Dinitrotoluene	0.17	0.185	.05	-8.8	20	128	0
Acenaphthylene	1.118	1.118	.05	0	20	113	0
Acenaphthene-d10	1	1	.05	0	20	111	0
Acenaphthene	1.237	1.328	.05	-7.4	20	113	0
2,4-Dinitrotoluene	0.369	0.472	.05	-27.9*	20	130	0
Fluorene	1.478	1.566	.05	-6	20	110	0
2,4,6-Tribromophenol	0.221	0.293	.05	-32.6*	20	136	0
Phenanthrene-d10	1	1	.05	0	20	108	0
4,6-Dinitro-o-cresol	1000	1073.582	.05	-7.4	20	126	0
Hexachlorobenzene	0.259	0.308	.05	-18.9	20	123	0
Pentachlorophenol	1000	1023.663	.05	-2.4	20	116	0
Phenanthrene	1.016	1.053	.05	-3.6	20	107	0
Anthracene	1.008	1.085	.05	-7.6	20	110	0
Fluoranthene	1.339	1.343	.05	-0.3	20	102	0
Pyrene	1.376	1.361	.05	1.1	20	102	0
4-Terphenyl-d14	0.981	0.729	.05	25.7*	20	78	0
Chrysene-d12	1	1	.05	0	20	95	0
Benzo[a]anthracene	1000	1079.119	.05	-7.9	20	92	0
3,3'-Dichlorobenzidine	0.604	0.624	.05	-3.3	20	95	0
Chrysene	1.32	1.361	.05	-3.1	20	95	0
Bis(2-ethylhexyl)phthalate	1000	1137.787	.05	-13.8	20	130	0
Perylene-d12	1	1	.05	0	20	93	0
Benzo[b]fluoranthene	1.397	1.389	.05	0.6	20	85	0
Benzo[k]fluoranthene	1.327	1.337	.05	-0.8	20	90	0
Benzo[a]pyrene	1.23	1.278	.05	-3.9	20	91	0
Indeno[1,2,3-cd]pyrene	1.337	1.347	.05	-0.7	20	88	0
Dibenzo[a,h]anthracene	1.244	1.176	.05	5.5	20	83	0
Benzo[g,h,i]perylene	1.36	1.291	.05	5.1	20	84	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: SV119	**Calibration Date**	: 06/06/24 06:36		
Lab File ID	: CCV0606	**Init. Calib. Date(s)**	: 12/07/23	12/07/23	
Sample No	: WG1930543-3	**Init. Calib. Times**	: 13:10	15:42	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	101	0
2-Fluorophenol	1.094	1.153	.05	-5.4	20	98	0
Phenol-d6	1.311	1.336	.05	-1.9	20	100	0
Bis(2-chloroethyl)ether	1.115	1.119	.05	-0.4	20	100	0
n-nitrosodi-n-propylamine	0.667	0.758	.05	-13.6	20	110	0
Hexachloroethane	0.495	0.524	.05	-5.9	20	105	0
Nitrobenzene-d5	0.995	1.166	.05	-17.2	20	112	0
Naphthalene-d8	1	1	.05	0	20	96	0
Naphthalene	0.955	0.989	.05	-3.6	20	95	0
Hexachlorobutadiene	0.206	0.234	.05	-13.6	20	104	0
2-Methylnaphthalene	0.706	0.711	.05	-0.7	20	91	0
1-Methylnaphthalene	0.651	0.643	.05	1.2	20	91	0
2-Fluorobiphenyl	0.893	0.828	.05	7.3	20	85	0
2-Chloronaphthalene	0.752	0.744	.05	1.1	20	92	0
2,6-Dinitrotoluene	0.17	0.183	.05	-7.6	20	101	0
Acenaphthylene	1.118	1.111	.05	0.6	20	90	0
Acenaphthene-d10	1	1	.05	0	20	90	0
Acenaphthene	1.237	1.314	.05	-6.2	20	90	0
2,4-Dinitrotoluene	0.369	0.472	.05	-27.9*	20	106	0
Fluorene	1.478	1.567	.05	-6	20	89	0
2,4,6-Tribromophenol	0.221	0.298	.05	-34.8*	20	112	0
Phenanthrene-d10	1	1	.05	0	20	90	0
4,6-Dinitro-o-cresol	1000	1056.935	.05	-5.7	20	103	0
Hexachlorobenzene	0.259	0.302	.05	-16.6	20	100	0
Pentachlorophenol	1000	969.309	.05	3.1	20	91	0
Phenanthrene	1.016	1.07	.05	-5.3	20	90	0
Anthracene	1.008	1.08	.05	-7.1	20	91	0
Fluoranthene	1.339	1.395	.05	-4.2	20	88	0
Pyrene	1.376	1.446	.05	-5.1	20	90	0
4-Terphenyl-d14	0.981	0.791	.05	19.4	20	70	0
Chrysene-d12	1	1	.05	0	20	89	0
Benzo[a]anthracene	1000	1071.832	.05	-7.2	20	86	0
3,3'-Dichlorobenzidine	0.604	0.624	.05	-3.3	20	89	0
Chrysene	1.32	1.346	.05	-2	20	88	0
Bis(2-ethylhexyl)phthalate	1000	1146.229	.05	-14.6	20	123	0
Perylene-d12	1	1	.05	0	20	87	0
Benzo[b]fluoranthene	1.397	1.395	.05	0.1	20	81	0
Benzo[k]fluoranthene	1.327	1.344	.05	-1.3	20	85	0
Benzo[a]pyrene	1.23	1.272	.05	-3.4	20	85	0
Indeno[1,2,3-cd]pyrene	1.337	1.288	.05	3.7	20	79	0
Dibenzo[a,h]anthracene	1.244	1.169	.05	6	20	78	0
Benzo[g,h,i]perylene	1.36	1.246	.05	8.4	20	76	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : ccv0604.D
Acq On : 04 Jun 2024 06:49 am
Operator : sv119:rp
Sample : WG1929299-3,32,, ICV 10475 (0603)
Misc : WG1929299,,ical20642
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 04 07:11:35 2024
Quant Method : I:\8270SIM\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:06 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	128	0.00
2	s	2-Fluorophenol	1.094	1.168	-6.8	126	0.00
3	s	Phenol-d6	1.311	1.340	-2.2	128	0.00
4	T	Bis(2-chloroethyl)ether	1.115	1.114	0.1	127	0.00
5	T	n-nitrosodi-n-propylamine	0.667	0.760	-13.9	140	0.00
6	t	Hexachloroethane	0.495	0.537	-8.5	137	0.00
7	s	Nitrobenzene-d5	0.995	1.157	-16.3	140	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	120	0.00
9	t	Naphthalene	0.955	0.985	-3.1	119	0.00
10	t	Hexachlorobutadiene	0.206	0.239	-16.0	133	0.00
11	t	2-Methylnaphthalene	0.706	0.724	-2.5	116	0.00
12	t	1-Methylnaphthalene	0.651	0.646	0.8	115	0.00
13	s	2-Fluorobiphenyl	0.893	0.832	6.8	107	0.00
14	t	2-Chloronaphthalene	0.752	0.744	1.1	116	0.00
15	t	2,6-Dinitrotoluene	0.170	0.185	-8.8	128	0.00
16	t	Acenaphthylene	1.118	1.118	0.0	113	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	111	0.00
18	t	Acenaphthene	1.237	1.328	-7.4	113	0.00
19	t	2,4-Dinitrotoluene	0.369	0.472	-27.9#	130	0.00
20	t	Fluorene	1.478	1.566	-6.0	110	0.00
21	s	2,4,6-Tribromophenol	0.221	0.293	-32.6#	136	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	108	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	1073.582	-7.4	126	0.00
24	t	Hexachlorobenzene	0.259	0.308	-18.9	123	0.00
25	t	Pentachlorophenol	*1000.000	1023.663	-2.4	116	0.00
26	t	Phenanthrene	1.016	1.053	-3.6	107	0.00
27	t	Anthracene	1.008	1.085	-7.6	110	0.00
28	t	Fluoranthene	1.339	1.343	-0.3	102	0.00
29	t	Pyrene	1.376	1.361	1.1	102	0.00
30	s	4-Terphenyl-d14	0.981	0.729	25.7#	78	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	95	0.00
32	t	Benzo[a]anthracene	*1000.000	1079.119	-7.9	92	0.00
33	t	3,3'-Dichlorobenzidine	0.604	0.624	-3.3	95	0.00
34	t	Chrysene	1.320	1.361	-3.1	95	0.00
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	1137.787	-13.8	130	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : ccv0604.D
Acq On : 04 Jun 2024 06:49 am
Operator : sv119:rp
Sample : WG1929299-3,32,, ICV 10475 (0603)
Misc : WG1929299,,ical20642
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 04 07:11:35 2024
Quant Method : I:\8270SIM\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:06 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	93	0.00
37	t	Benzo[b]fluoranthene	1.397	1.389	0.6	85	0.00
38	t	Benzo[k]fluoranthene	1.327	1.337	-0.8	90	0.00
39	t	Benzo[a]pyrene	1.230	1.278	-3.9	91	0.00
40	t	Indeno[1,2,3-cd]pyrene	1.337	1.347	-0.7	88	0.00
41	t	Dibenzo[a,h]anthracene	1.244	1.176	5.5	83	0.00
42	t	Benzo[g,h,i]perylene	1.360	1.291	5.1	84	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : ccv0604.D
Acq On : 04 Jun 2024 06:49 am
Operator : sv119:rp
Sample : WG1929299-3,32,, ICV 10475 (0603)
Misc : WG1929299,,ical20642
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 04 07:11:35 2024
Quant Method : I:\8270SIM\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:06 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.903	152	56492	4000.000	ng/ml	0.00
8) Naphthalene-d8	2.547	136	186100	4000.000	ng/ml	0.00
17) Acenaphthene-d10	3.498	164	98337	4000.000	ng/ml	0.00
22) Phenanthrene-d10	4.318	188	215749	4000.000	ng/ml	0.00
31) Chrysene-d12	5.850	240	188074	4000.000	ng/ml	0.00
36) Perylene-d12	6.799	264	198758	4000.000	ng/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	1.333	112	16498	1067.728	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 21.35%			
3) Phenol-d6	1.736	99	18925	1021.779	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 20.44%			
7) Nitrobenzene-d5	2.180	82	16340	1163.038	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 46.52%			
13) 2-Fluorobiphenyl	3.136	172	38708	931.302	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 37.25%			
21) 2,4,6-Tribromophenol	3.935	330	7210	1329.896	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 26.60%			
30) 4-Terphenyl-d14	5.234	244	39326	743.543	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 29.74%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.781	93	15740	999.269	ng/ml#	77
5) n-nitrosodi-n-propylamine	2.108	70	10729	1138.874	ng/ml	99
6) Hexachloroethane	2.153	117	7584	1085.220	ng/ml	89
9) Naphthalene	2.559	128	45810	1030.899	ng/ml	100
10) Hexachlorobutadiene	2.634	225	11127	1162.713	ng/ml	99
11) 2-Methylnaphthalene	2.929	142	33666	1024.648	ng/ml	98
12) 1-Methylnaphthalene	2.983	142	30042	991.531	ng/ml	98
14) 2-Chloronaphthalene	3.193	162	34621	989.211	ng/ml	99
15) 2,6-Dinitrotoluene	3.393	165	8627	1091.622	ng/ml	93
16) Acenaphthylene	3.418	152	52028	1000.348	ng/ml	100
18) Acenaphthene	3.514	153	32637	1073.573	ng/ml	99
19) 2,4-Dinitrotoluene	3.616	165	11611	1281.027	ng/ml#	74
20) Fluorene	3.801	166	38496	1059.392	ng/ml	99
23) 4,6-Dinitro-o-cresol	3.841	198	6698	1073.582	ng/ml	93
24) Hexachlorobenzene	4.111	284	16615	1191.239	ng/ml	100
25) Pentachlorophenol	4.225	266	9035	1023.663	ng/ml	99
26) Phenanthrene	4.330	178	56809	1036.585	ng/ml	100
27) Anthracene	4.358	178	58522	1076.818	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : ccv0604.D
Acq On : 04 Jun 2024 06:49 am
Operator : sv119:rp
Sample : WG1929299-3,32,, ICV 10475 (0603)
Misc : WG1929299,,ical20642
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 04 07:11:35 2024
Quant Method : I:\8270SIM\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:06 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Fluoranthene	5.000	202	72434	1002.832	ng/ml	100
29) Pyrene	5.126	202	73420	989.418	ng/ml	100
32) Benzo[a]anthracene	5.843	228	68016	1079.119	ng/ml	100
33) 3,3'-Dichlorobenzidine	5.843	252	29323	1031.992	ng/ml#	98
34) Chrysene	5.865	228	64013	1031.278	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	5.903	149	47064	1137.787	ng/ml	99
37) Benzo[b]fluoranthene	6.517	252	69000	993.702	ng/ml	100
38) Benzo[k]fluoranthene	6.535	252	66439	1007.645	ng/ml	100
39) Benzo[a]pyrene	6.754	252	63483	1038.663	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	7.747	276	66929	1007.559	ng/ml#	89
41) Dibenzo[a,h]anthracene	7.782	278	58448	945.710	ng/ml#	90
42) Benzo[g,h,i]perylene	8.017	276	64151	949.414	ng/ml#	89

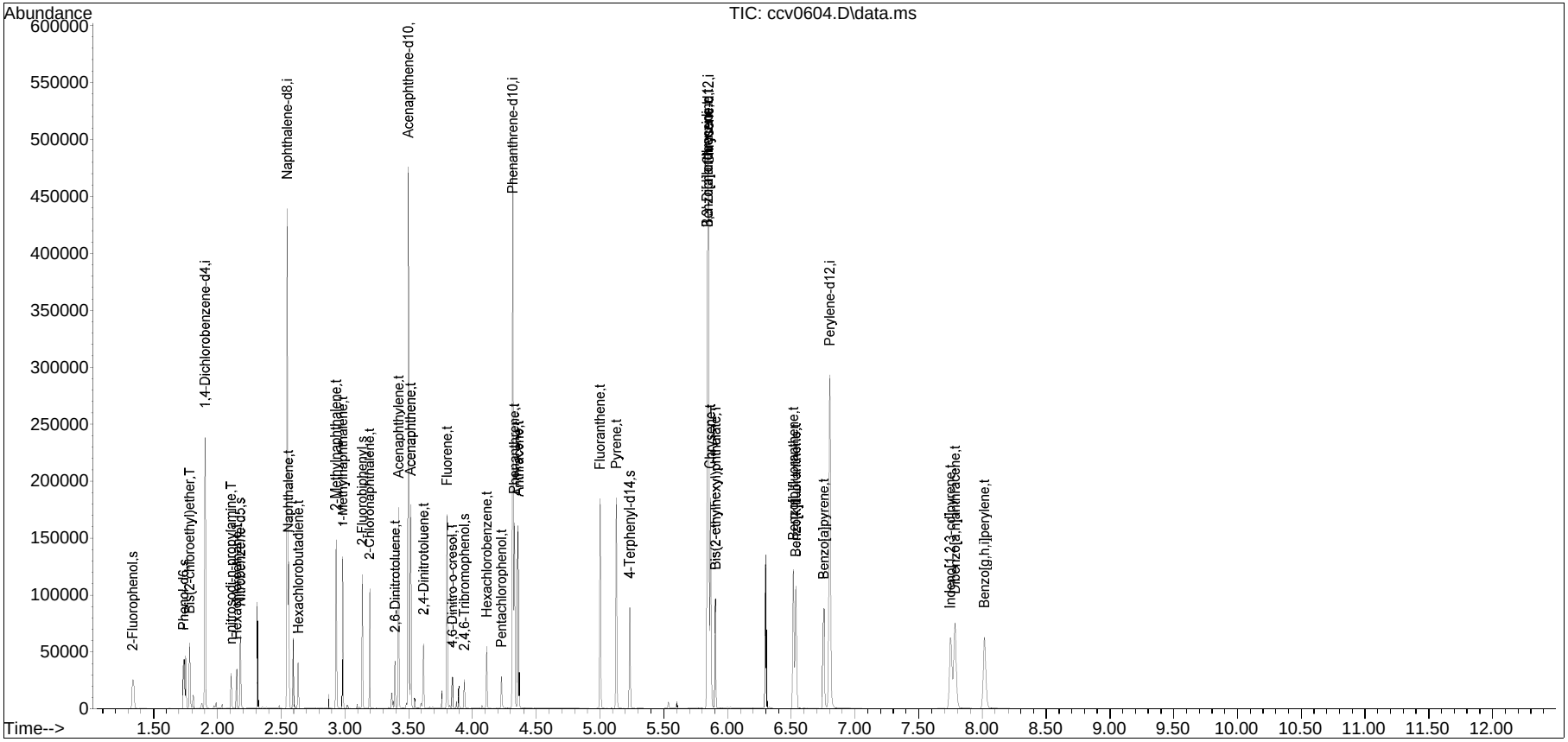
(#) = qualifier out of range (m) = manual integration (+) = signals summed

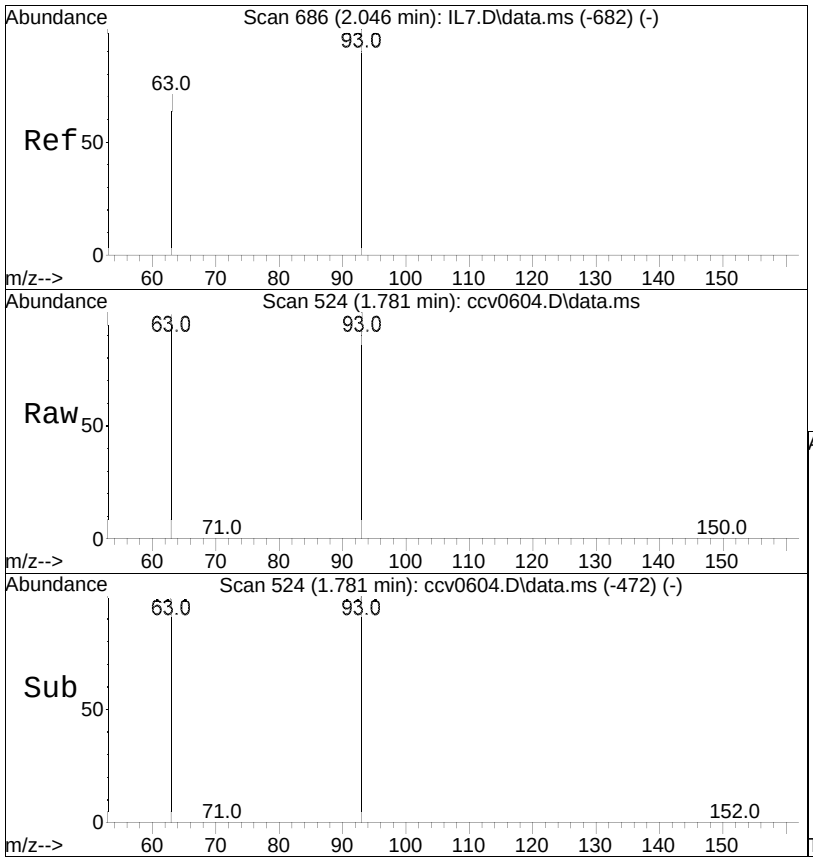
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : ccv0604.D
Acq On : 04 Jun 2024 06:49 am
Operator : sv119:rp
Sample : WG1929299-3,32,, ICV 10475 (0603)
Misc : WG1929299,,ical20642
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 04 07:11:35 2024
Quant Method : I:\8270SIM\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:06 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

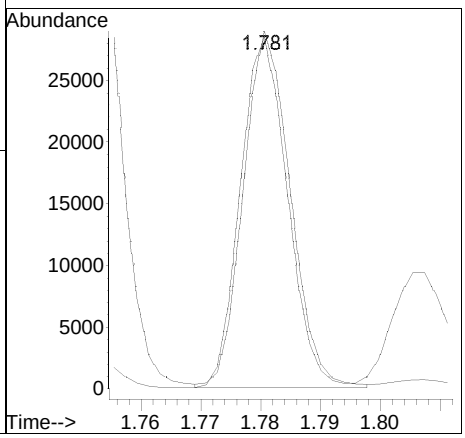


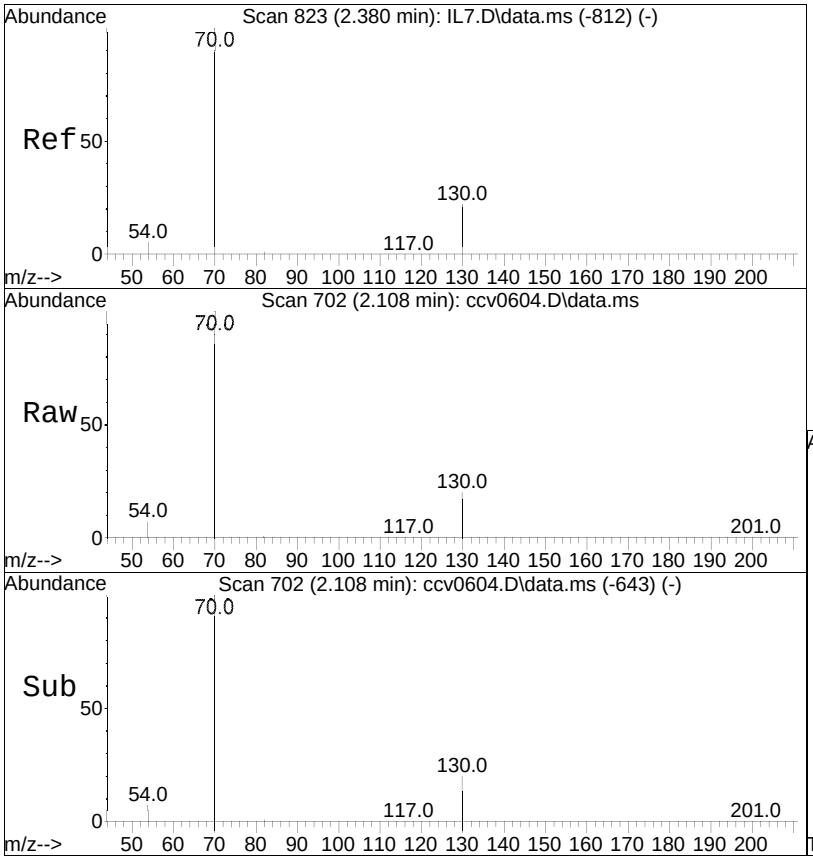


#4
Bis(2-chloroethyl)ether
Concen: 999.27 ng/ml
RT: 1.781 min Scan# 524
Delta R.T. 0.000 min
Lab File: ccv0604.D
Acq: 04 Jun 2024 06:49 am

Tgt Ion: 93 Resp: 15740

Ion	Ratio	Lower	Upper
93	100		
63	98.6	62.6	94.0#

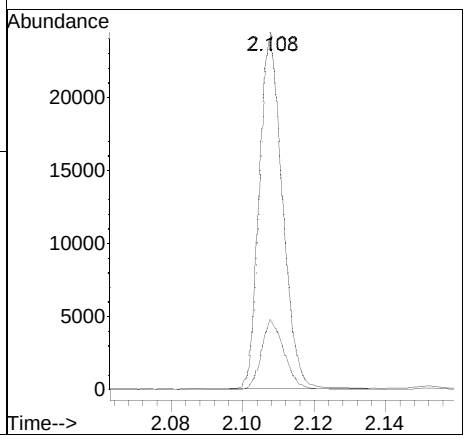


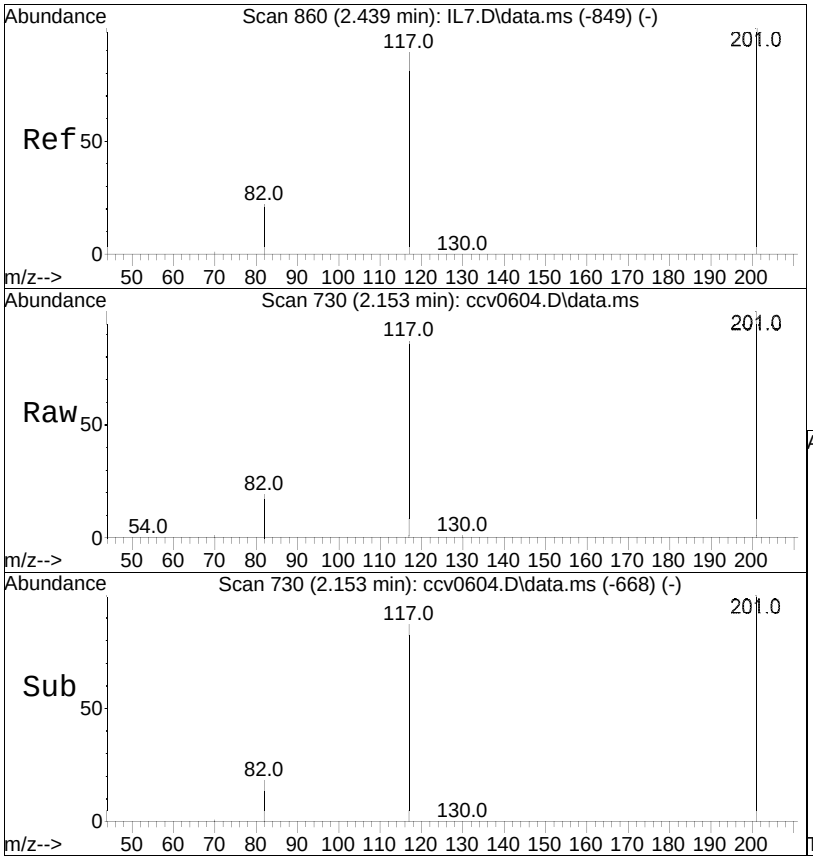


#5
n-nitrosodi-n-propylamine
Concen: 1138.87 ng/ml
RT: 2.108 min Scan# 702
Delta R.T. 0.000 min
Lab File: ccv0604.D
Acq: 04 Jun 2024 06:49 am

Tgt Ion: 70 Resp: 10729

Ion	Ratio	Lower	Upper
70	100		
130	19.3	15.0	22.6

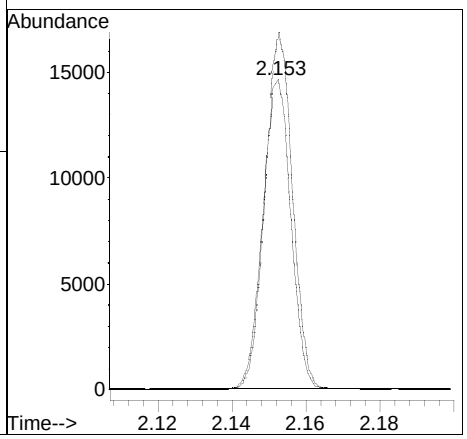


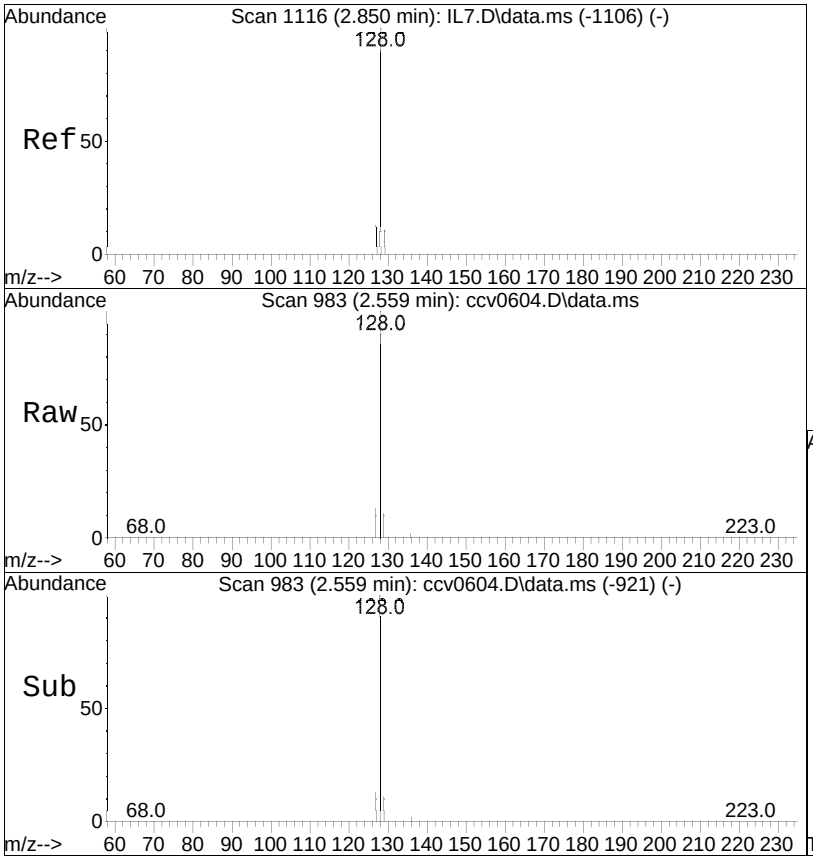


#6
Hexachloroethane
Concen: 1085.22 ng/ml
RT: 2.153 min Scan# 730
Delta R.T. 0.000 min
Lab File: ccv0604.D
Acq: 04 Jun 2024 06:49 am

Tgt Ion:117 Resp: 7584

Ion	Ratio	Lower	Upper
117	100		
201	112.5	81.5	122.3

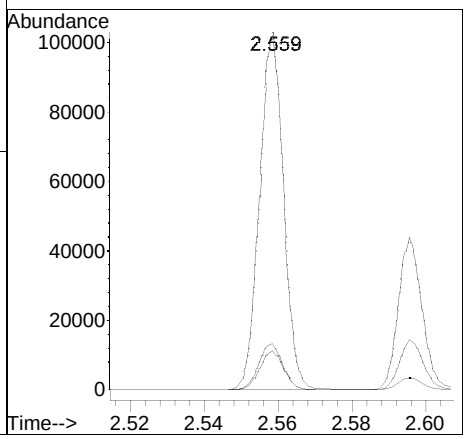


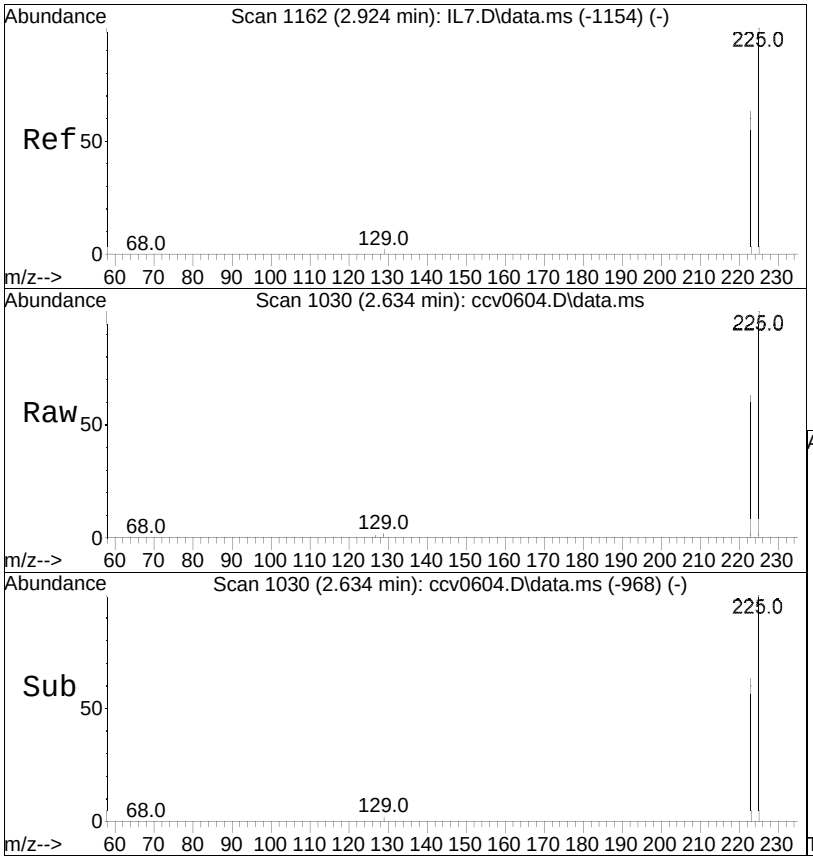


#9
Naphthalene
Concen: 1030.90 ng/ml
RT: 2.559 min Scan# 983
Delta R.T. 0.000 min
Lab File: ccv0604.D
Acq: 04 Jun 2024 06:49 am

Tgt Ion:128 Resp: 45810

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.1	10.6	15.8

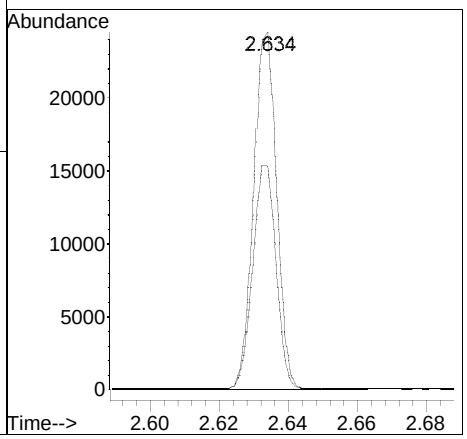


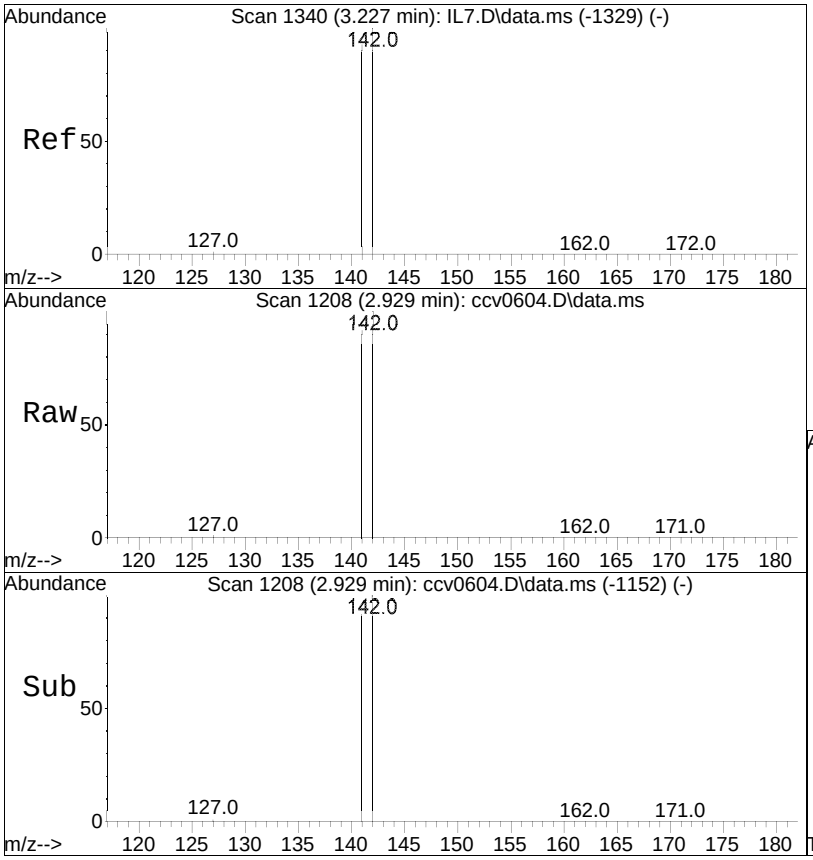


#10
Hexachlorobutadiene
Concen: 1162.71 ng/ml
RT: 2.634 min Scan# 1030
Delta R.T. 0.000 min
Lab File: ccv0604.D
Acq: 04 Jun 2024 06:49 am

Tgt Ion:225 Resp: 11127

Ion	Ratio	Lower	Upper
225	100		
223	63.6	50.1	75.1

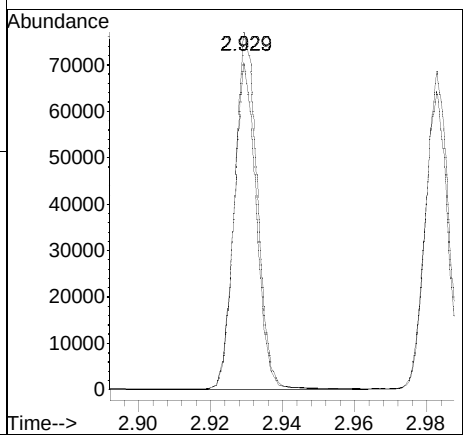


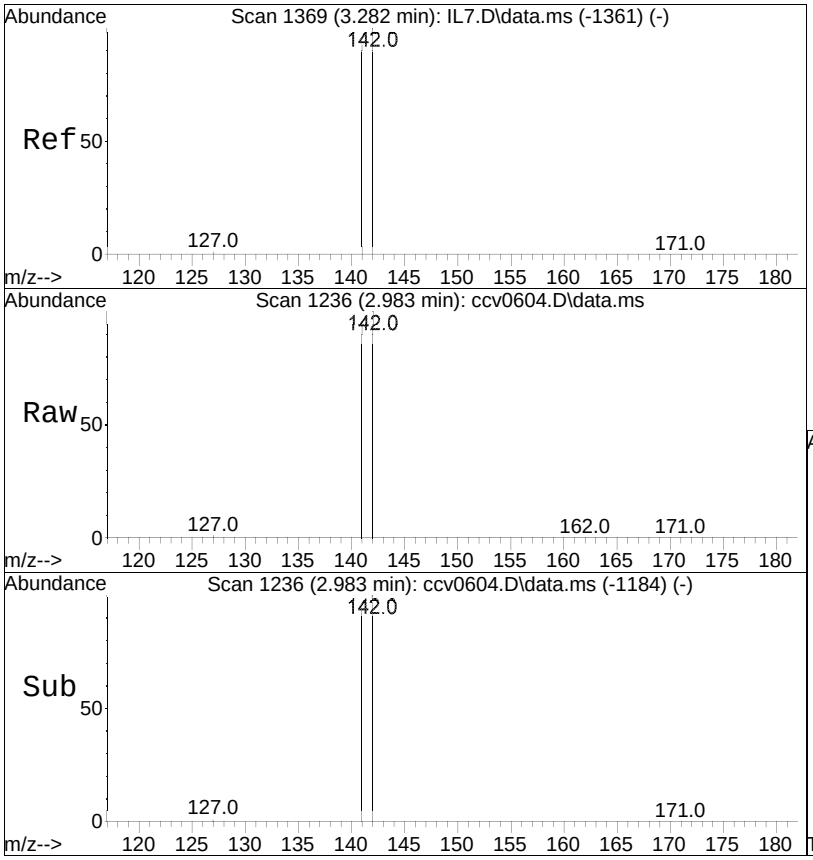


#11
2-Methylnaphthalene
Concen: 1024.65 ng/ml
RT: 2.929 min Scan# 1208
Delta R.T. 0.000 min
Lab File: ccv0604.D
Acq: 04 Jun 2024 06:49 am

Tgt Ion:142 Resp: 33666

Ion	Ratio	Lower	Upper
142	100		
141	90.2	74.1	111.1

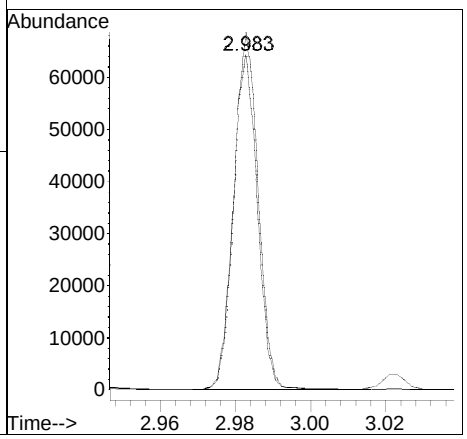


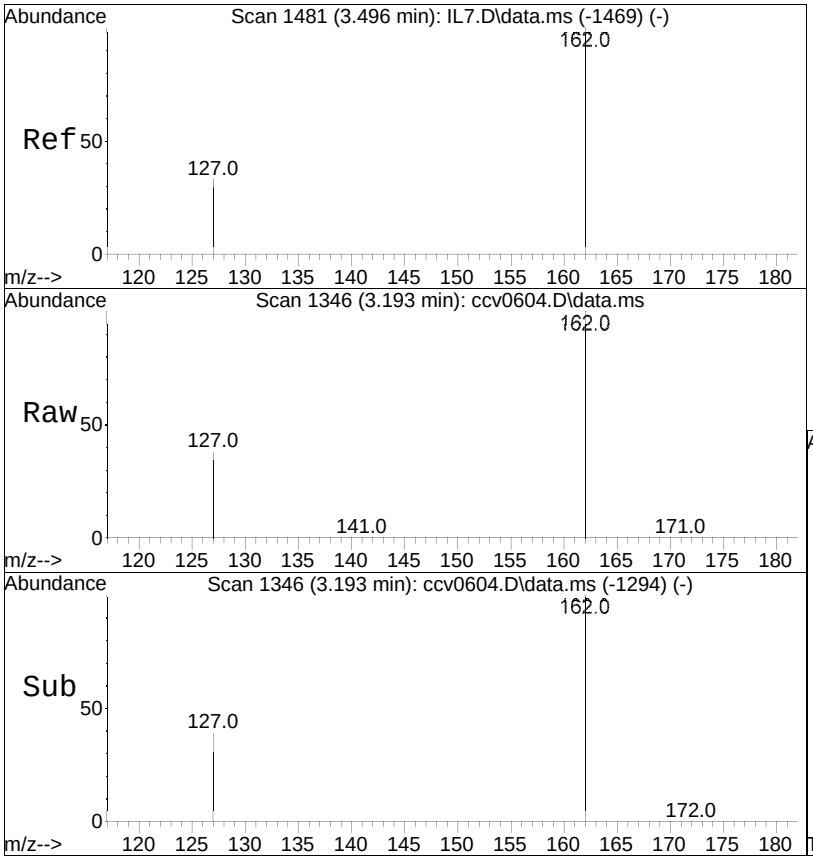


#12
1-Methylnaphthalene
Concen: 991.53 ng/ml
RT: 2.983 min Scan# 1236
Delta R.T. 0.000 min
Lab File: ccv0604.D
Acq: 04 Jun 2024 06:49 am

Tgt Ion:142 Resp: 30042

Ion	Ratio	Lower	Upper
142	100		
141	94.2	76.6	114.8

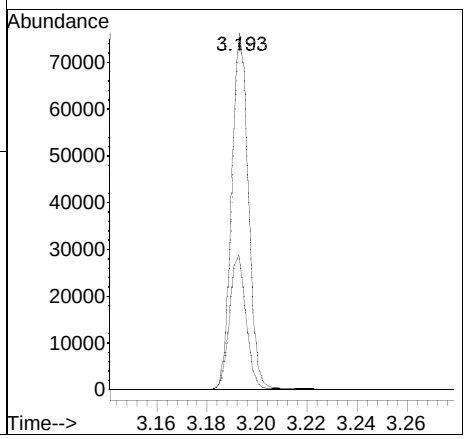


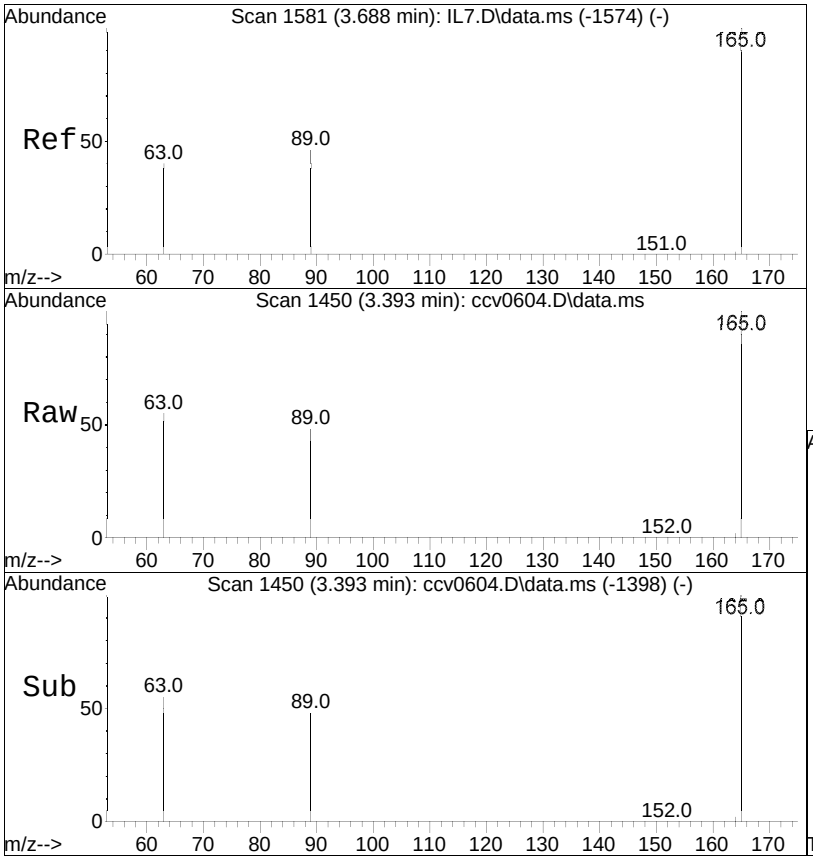


#14
2-Chloronaphthalene
Concen: 989.21 ng/ml
RT: 3.193 min Scan# 1346
Delta R.T. 0.000 min
Lab File: ccv0604.D
Acq: 04 Jun 2024 06:49 am

Tgt Ion:162 Resp: 34621

Ion	Ratio	Lower	Upper
162	100		
127	37.6	29.7	44.5

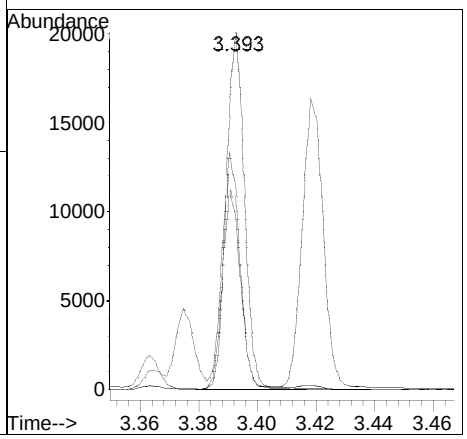


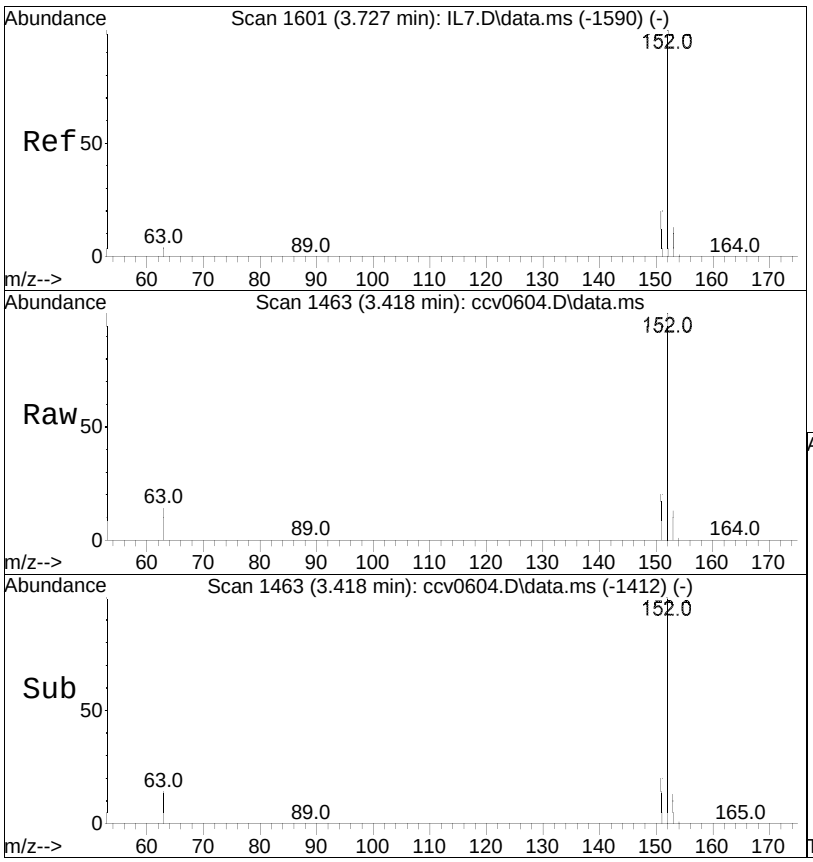


#15
2,6-Dinitrotoluene
Concen: 1091.62 ng/ml
RT: 3.393 min Scan# 1450
Delta R.T. 0.000 min
Lab File: ccv0604.D
Acq: 04 Jun 2024 06:49 am

Tgt Ion:165 Resp: 8627

Ion	Ratio	Lower	Upper
165	100		
89	55.6	52.8	79.2
63	64.7	50.9	76.3

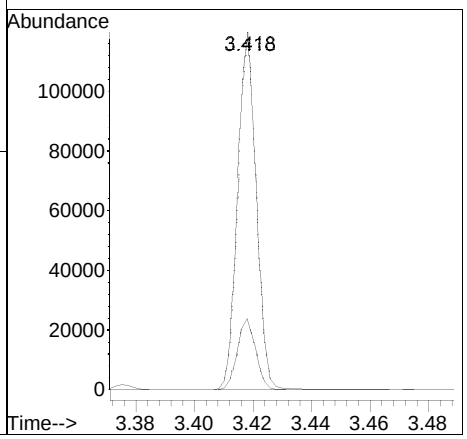


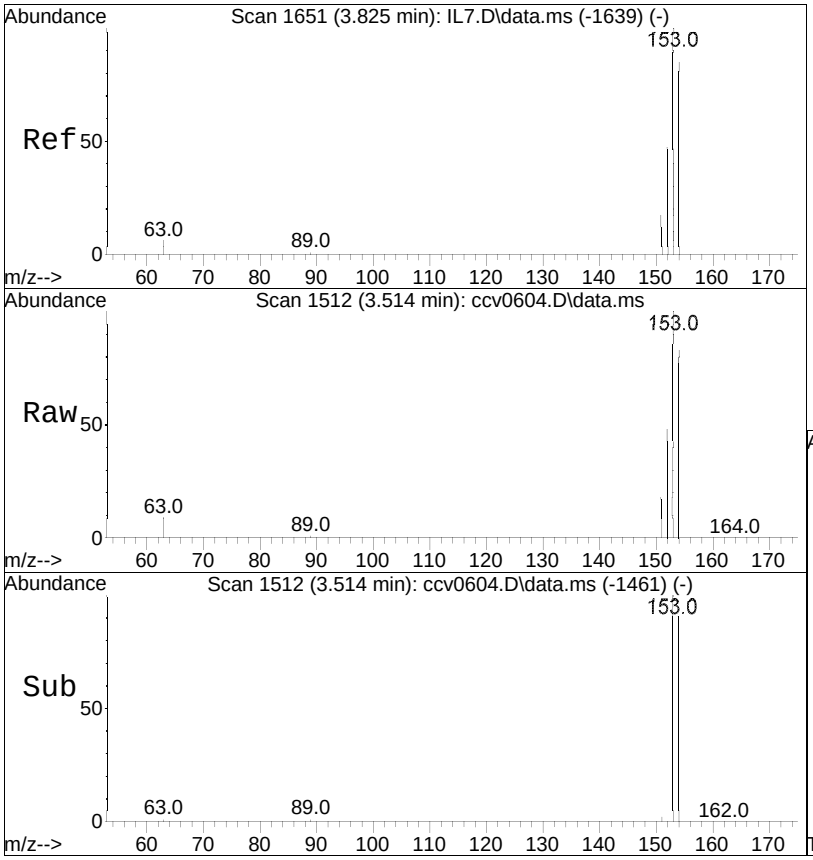


#16
Acenaphthylene
Concen: 1000.35 ng/ml
RT: 3.418 min Scan# 1463
Delta R.T. 0.000 min
Lab File: ccv0604.D
Acq: 04 Jun 2024 06:49 am

Tgt Ion:152 Resp: 52028

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.0	24.0

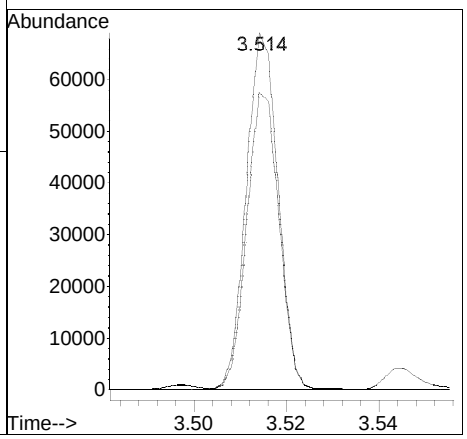


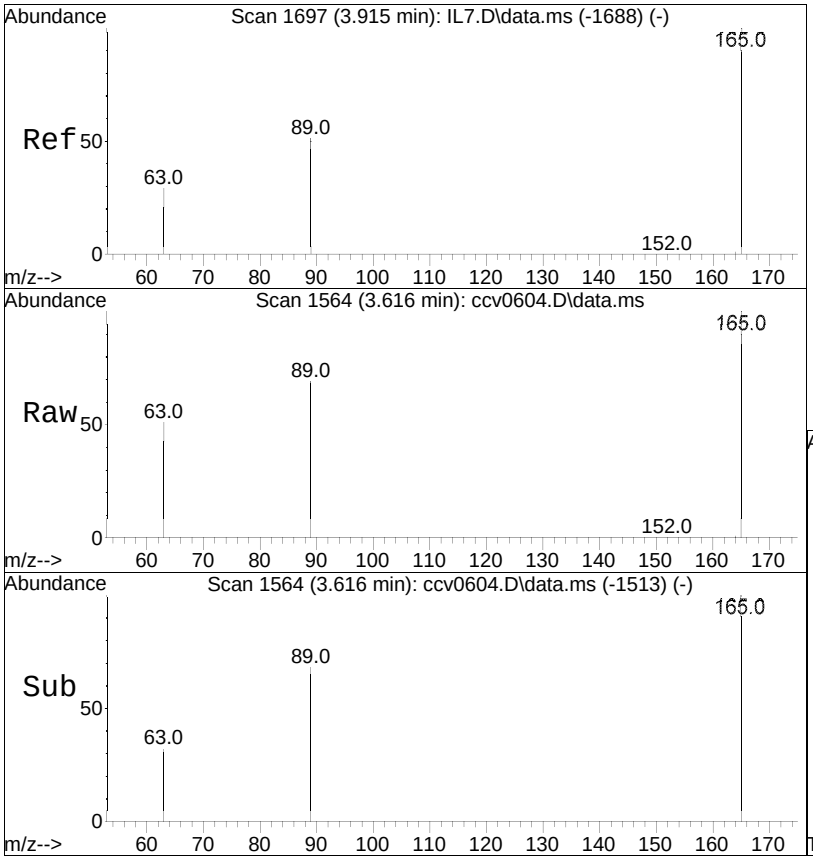


#18
Acenaphthene
Concen: 1073.57 ng/ml
RT: 3.514 min Scan# 1512
Delta R.T. 0.000 min
Lab File: ccv0604.D
Acq: 04 Jun 2024 06:49 am

Tgt Ion:153 Resp: 32637

Ion	Ratio	Lower	Upper
153	100		
154	84.1	66.9	100.3

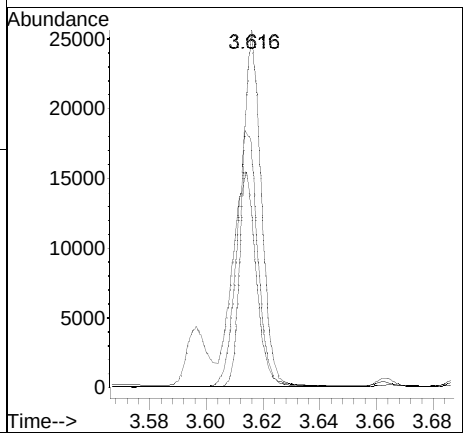


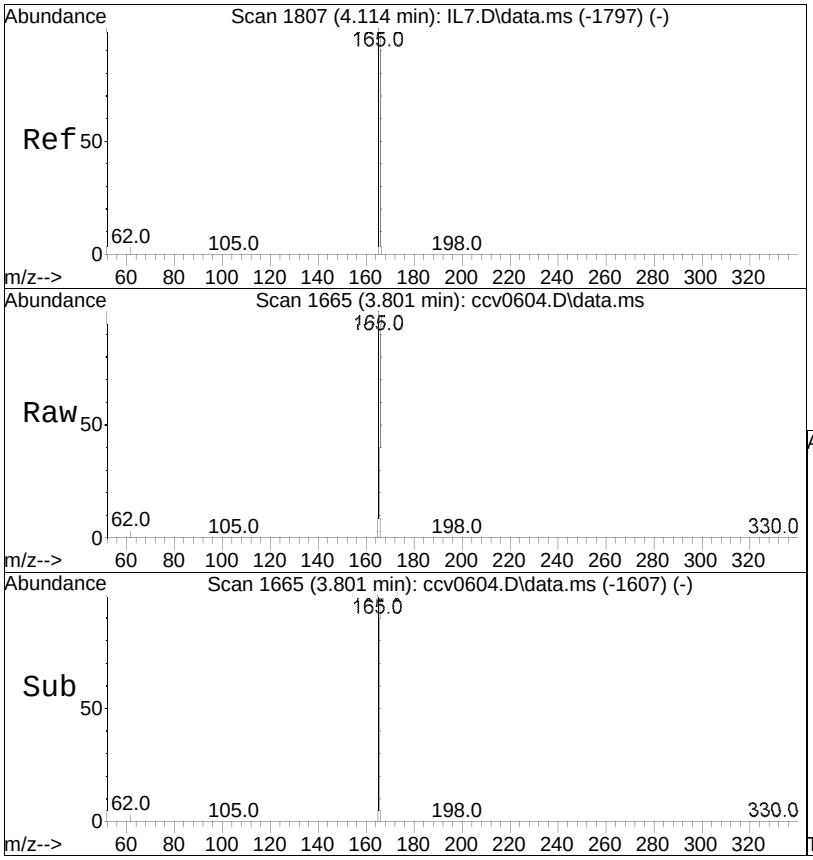


#19
2,4-Dinitrotoluene
Concen: 1281.03 ng/ml
RT: 3.616 min Scan# 1564
Delta R.T. 0.000 min
Lab File: ccv0604.D
Acq: 04 Jun 2024 06:49 am

Tgt Ion:165 Resp: 11611

Ion	Ratio	Lower	Upper
165	100		
89	81.5	80.1	120.1
63	76.6	38.9	58.3#

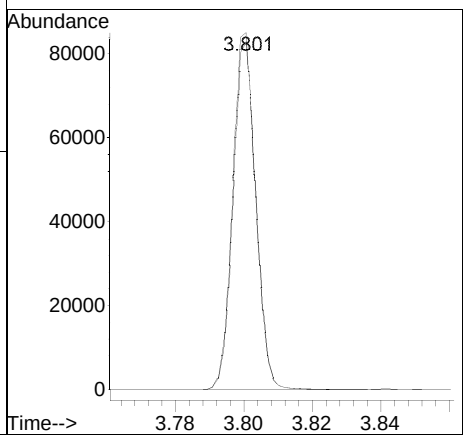


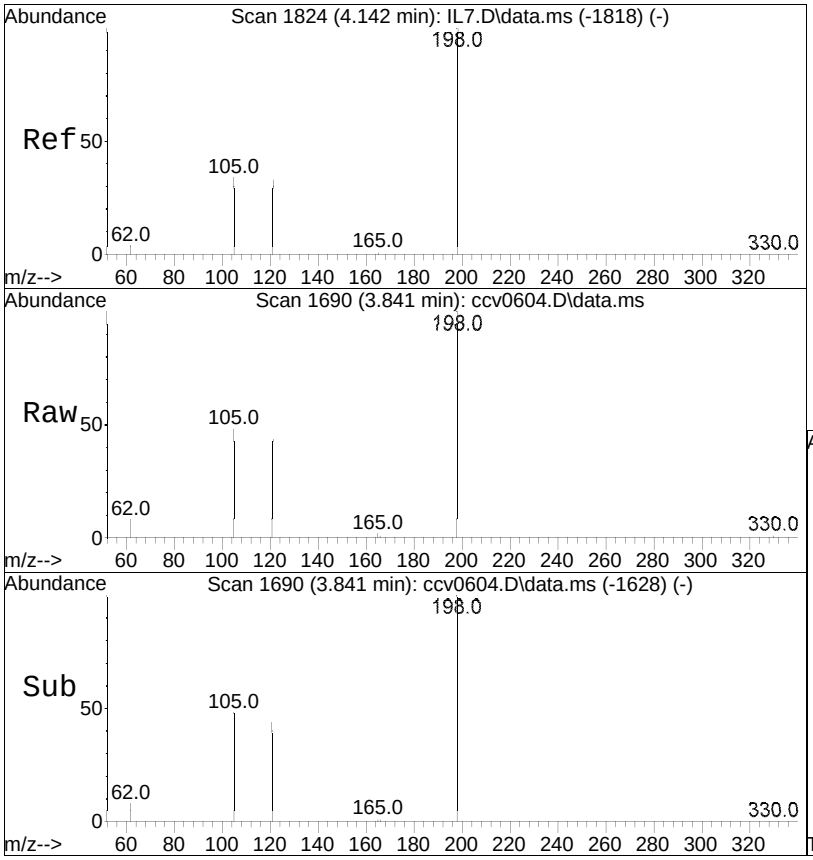


#20
Fluorene
Concen: 1059.39 ng/ml
RT: 3.801 min Scan# 1665
Delta R.T. 0.000 min
Lab File: ccv0604.D
Acq: 04 Jun 2024 06:49 am

Tgt Ion:166 Resp: 38496

Ion	Ratio	Lower	Upper
166	100		
165	102.5	82.9	124.3

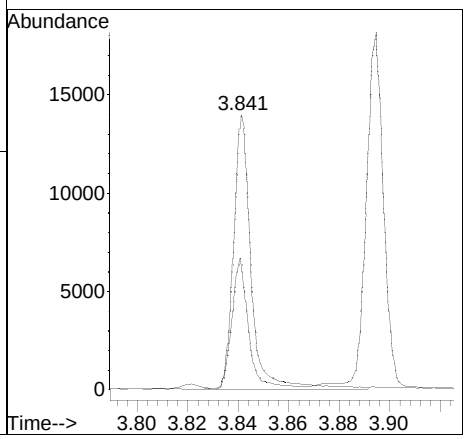


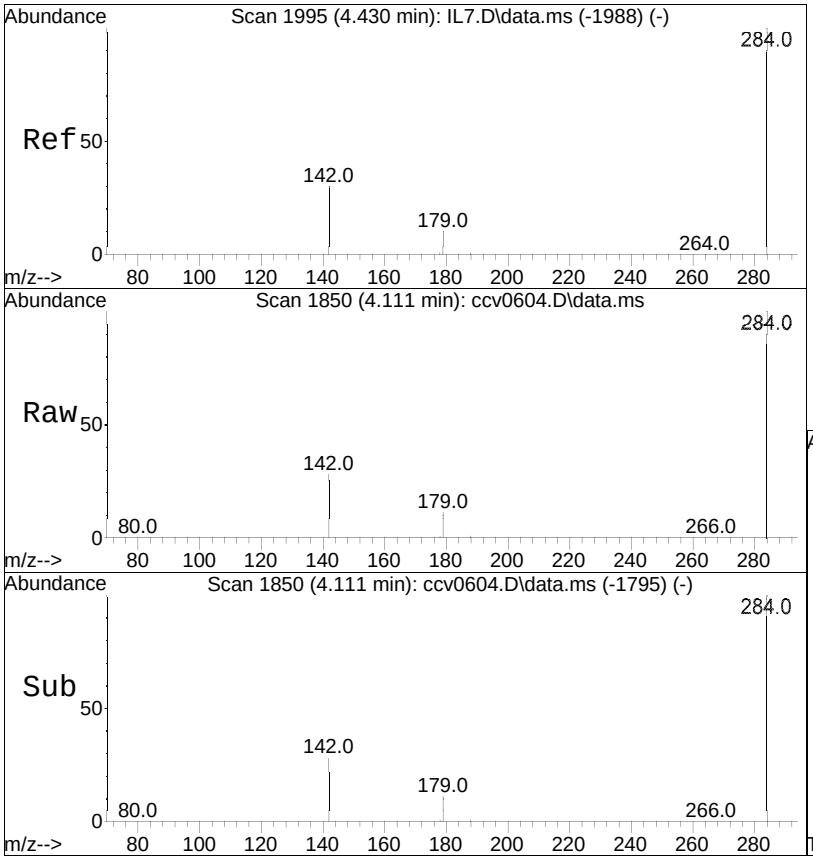


#23
4,6-Dinitro-o-cresol
Concen: 1073.58 ng/ml
RT: 3.841 min Scan# 1690
Delta R.T. 0.000 min
Lab File: ccv0604.D
Acq: 04 Jun 2024 06:49 am

Tgt Ion:198 Resp: 6698

Ion	Ratio	Lower	Upper
198	100		
105	44.5	32.2	48.4

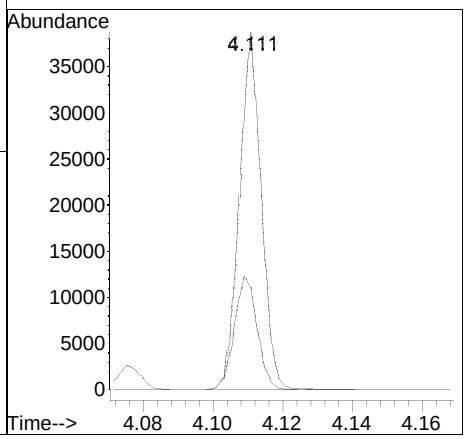


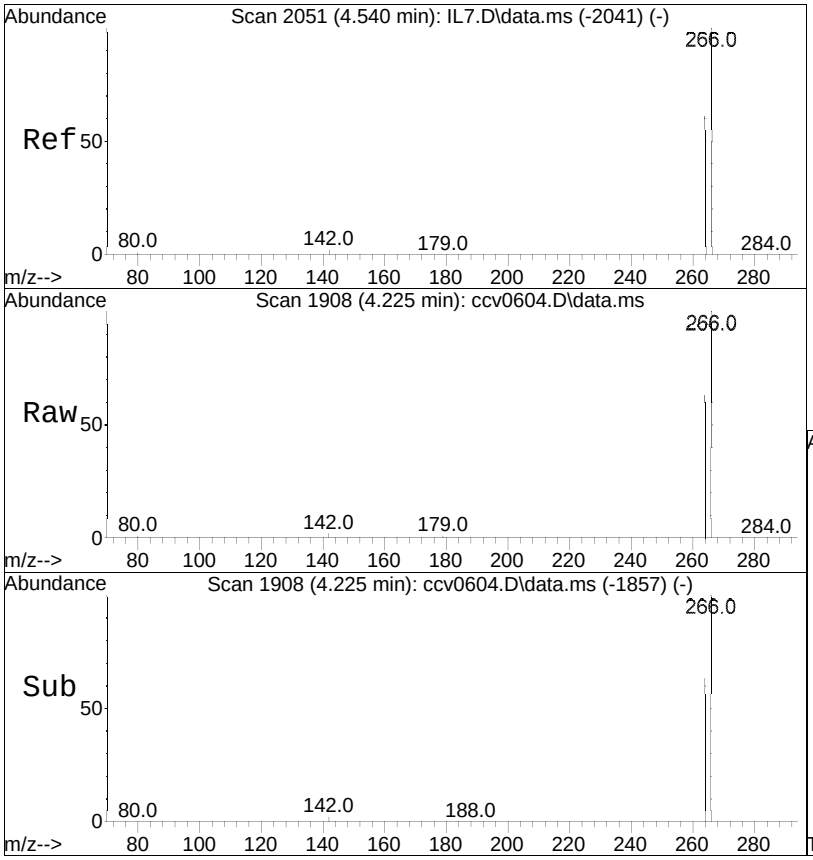


#24
Hexachlorobenzene
Concen: 1191.24 ng/ml
RT: 4.111 min Scan# 1850
Delta R.T. 0.000 min
Lab File: ccv0604.D
Acq: 04 Jun 2024 06:49 am

Tgt Ion:284 Resp: 16615

Ion	Ratio	Lower	Upper
284	100		
142	33.5	26.9	40.3

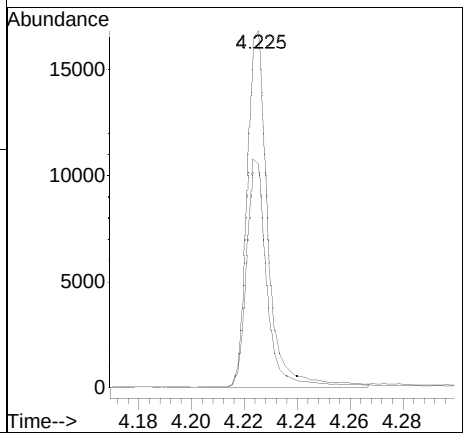


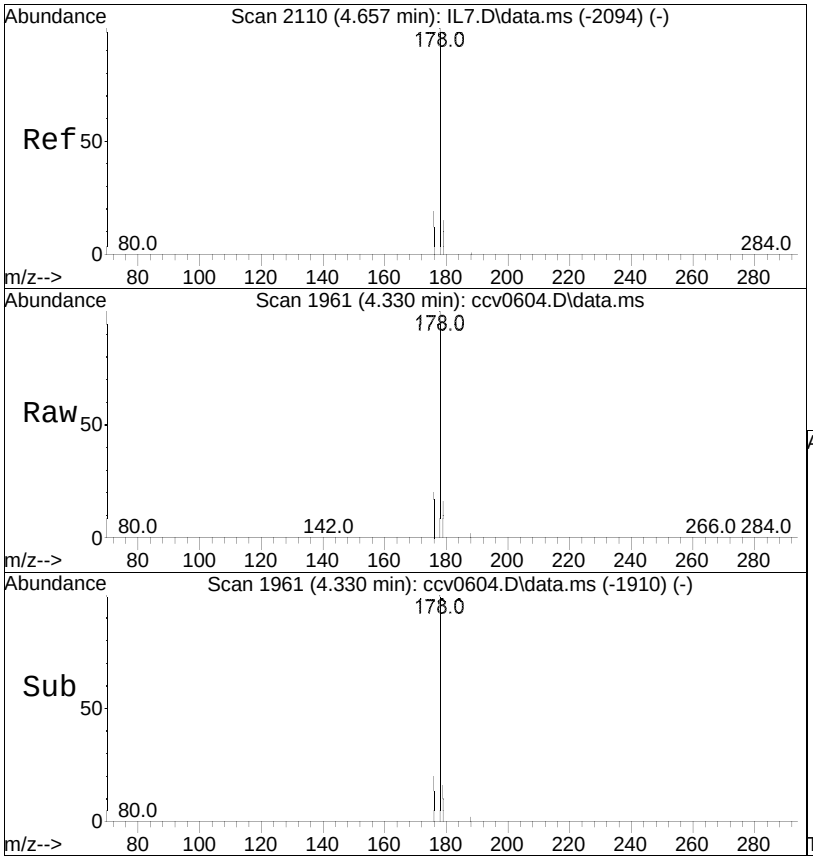


#25
Pentachlorophenol
Concen: 1023.66 ng/ml
RT: 4.225 min Scan# 1908
Delta R.T. 0.000 min
Lab File: ccv0604.D
Acq: 04 Jun 2024 06:49 am

Tgt Ion:266 Resp: 9035

Ion	Ratio	Lower	Upper
266	100		
264	62.4	50.7	76.1

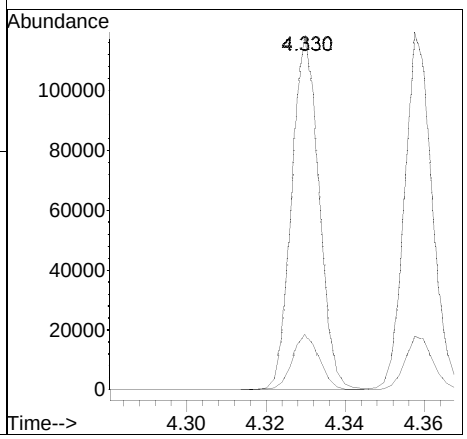


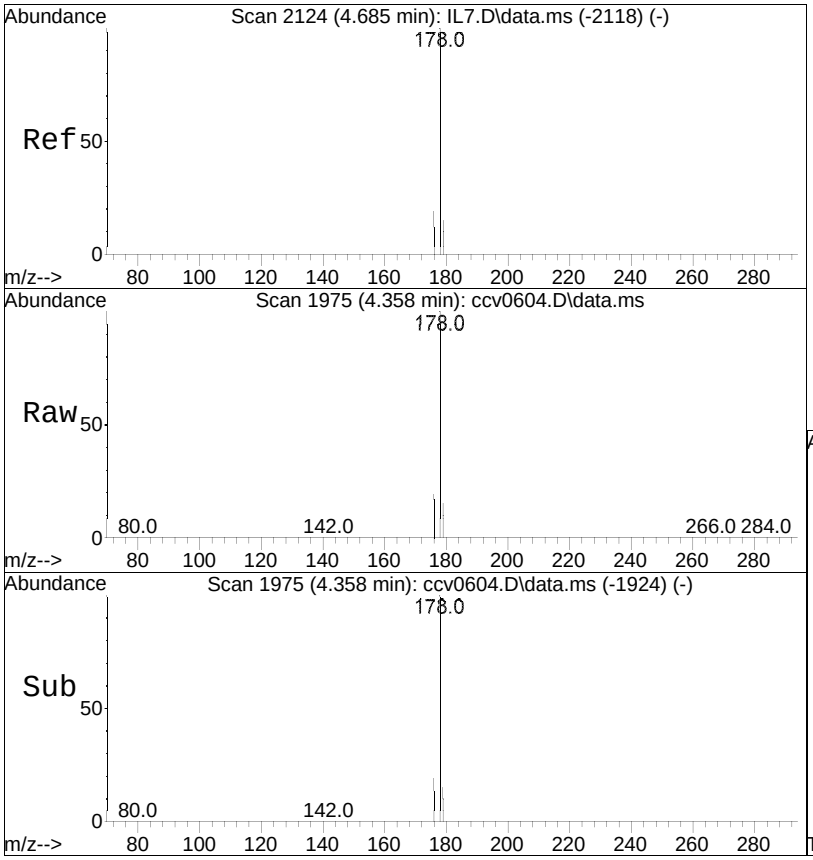


#26
Phenanthrene
Concen: 1036.58 ng/ml
RT: 4.330 min Scan# 1961
Delta R.T. 0.000 min
Lab File: ccv0604.D
Acq: 04 Jun 2024 06:49 am

Tgt Ion:178 Resp: 56809

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.3	18.5

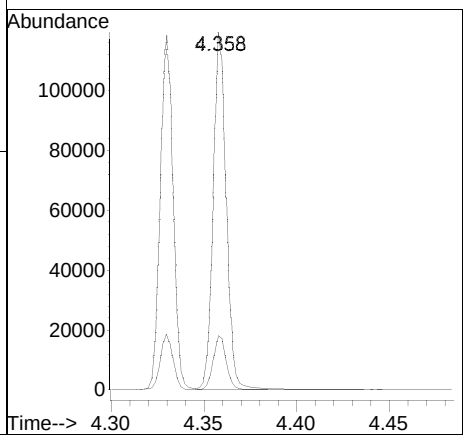


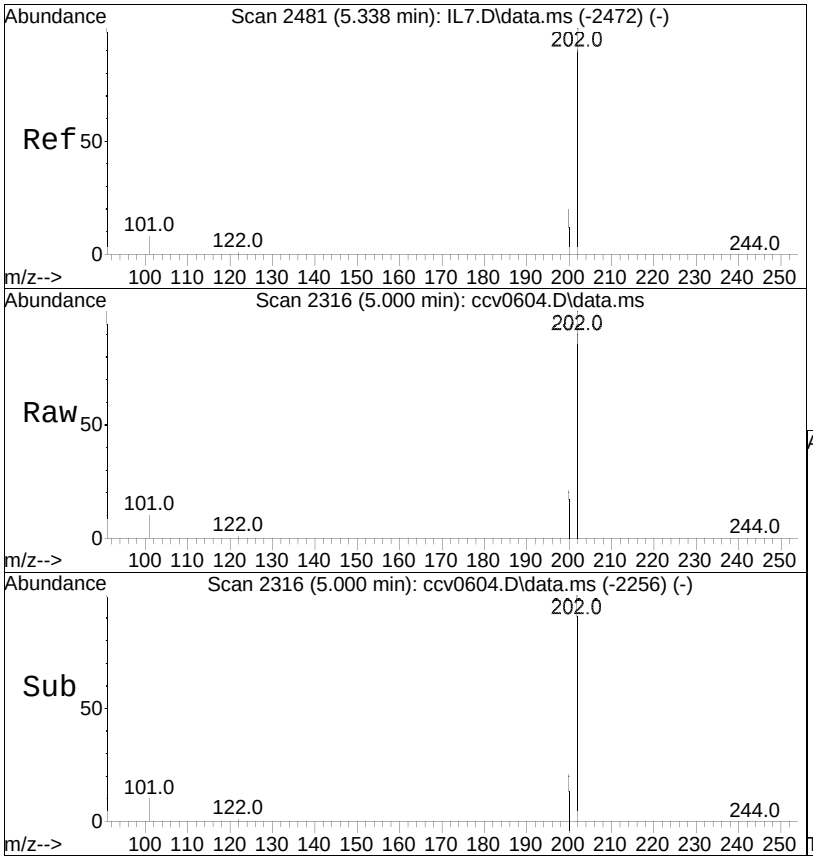


#27
Anthracene
Concen: 1076.82 ng/ml
RT: 4.358 min Scan# 1975
Delta R.T. 0.000 min
Lab File: ccv0604.D
Acq: 04 Jun 2024 06:49 am

Tgt Ion:178 Resp: 58522

Ion	Ratio	Lower	Upper
178	100		
179	15.0	12.2	18.4

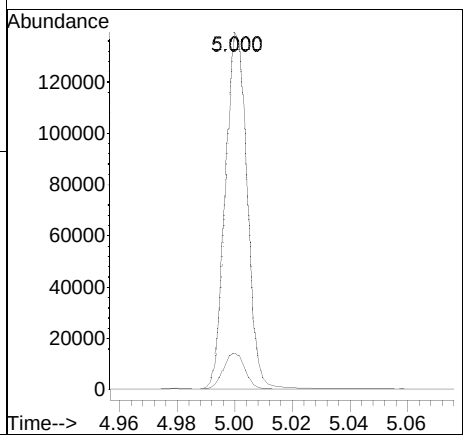


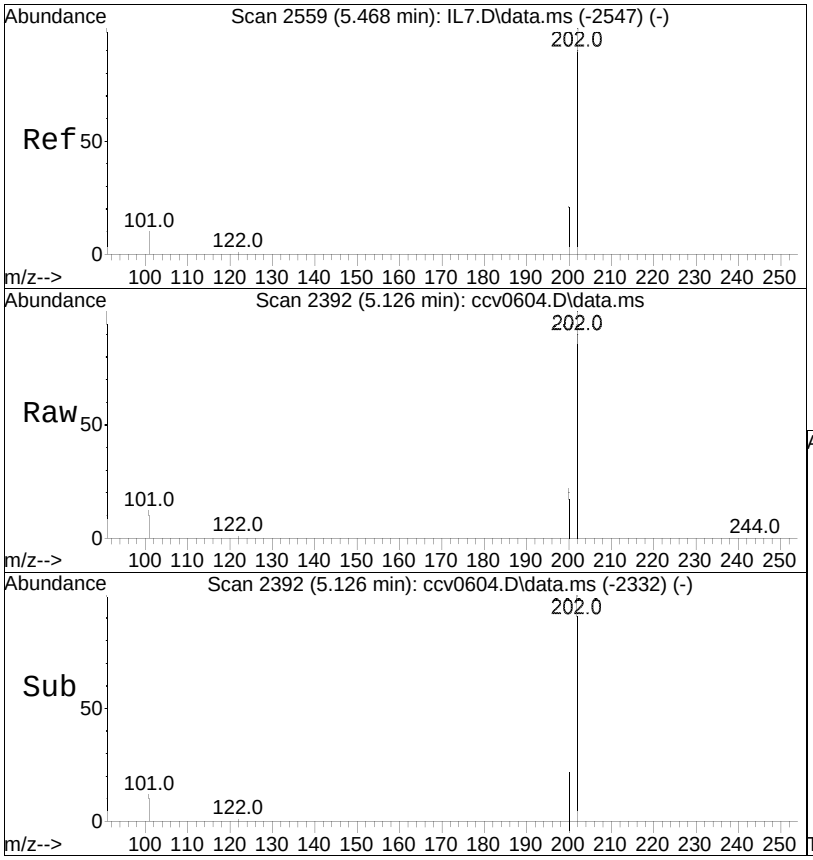


#28
Fluoranthene
Concen: 1002.83 ng/ml
RT: 5.000 min Scan# 2316
Delta R.T. 0.000 min
Lab File: ccv0604.D
Acq: 04 Jun 2024 06:49 am

Tgt Ion:202 Resp: 72434

Ion	Ratio	Lower	Upper
202	100		
101	10.4	8.3	12.5

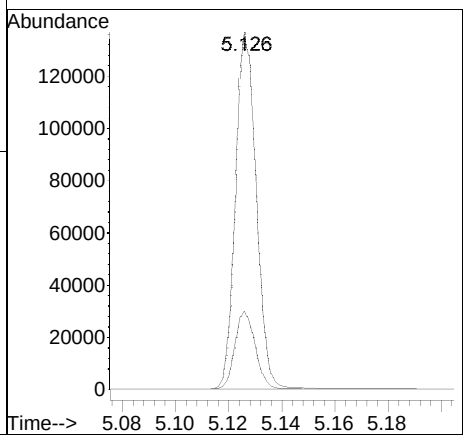


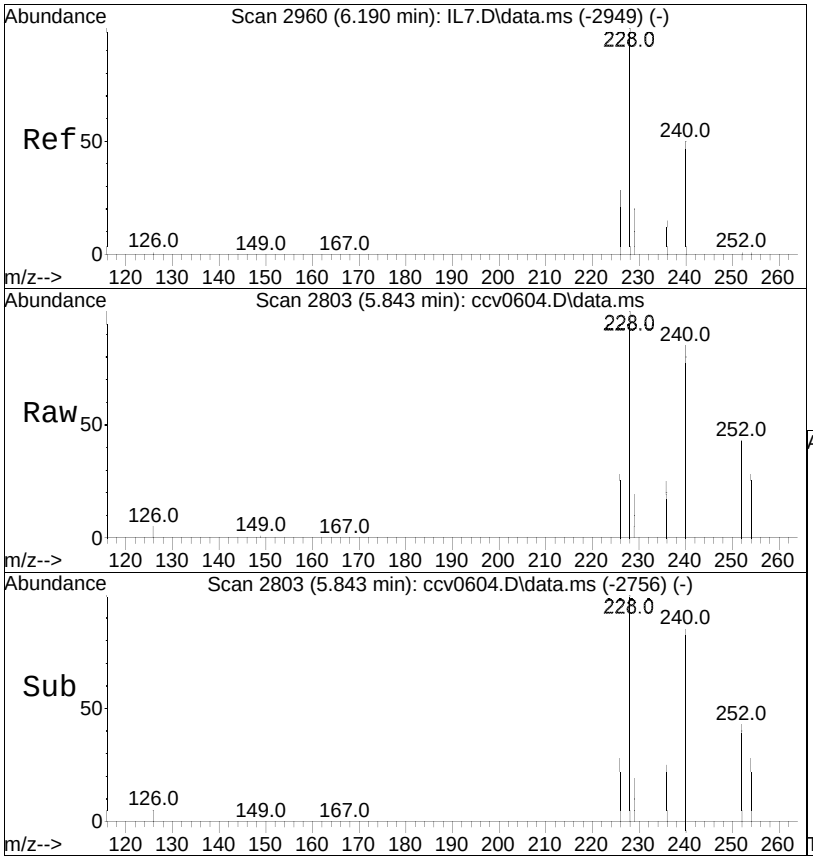


#29
Pyrene
Concen: 989.42 ng/ml
RT: 5.126 min Scan# 2392
Delta R.T. 0.000 min
Lab File: ccv0604.D
Acq: 04 Jun 2024 06:49 am

Tgt Ion:202 Resp: 73420

Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.3	25.9

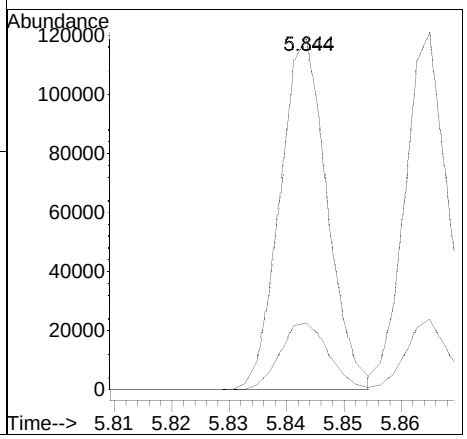


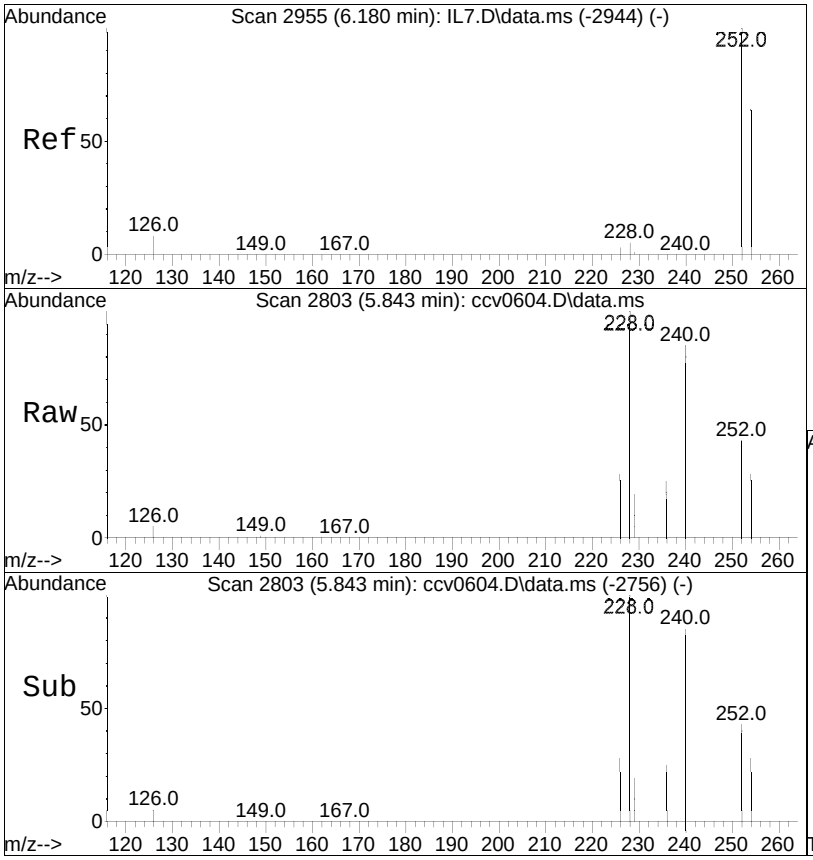


#32
Benzo[a]anthracene
Concen: 1079.12 ng/ml
RT: 5.843 min Scan# 2803
Delta R.T. 0.000 min
Lab File: ccv0604.D
Acq: 04 Jun 2024 06:49 am

Tgt Ion:228 Resp: 68016

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.6	23.4

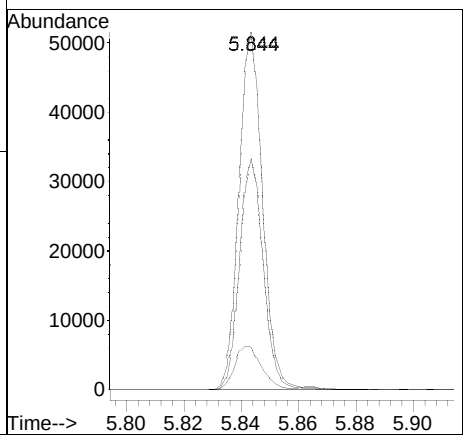


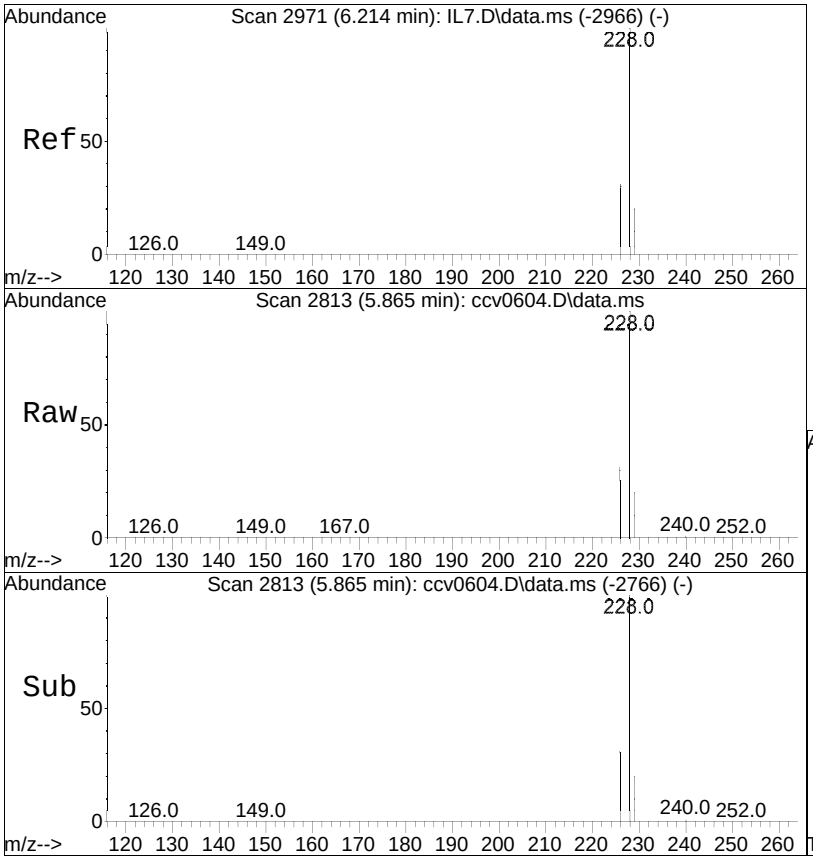


#33
3,3'-Dichlorobenzidine
Concen: 1031.99 ng/ml
RT: 5.843 min Scan# 2803
Delta R.T. 0.000 min
Lab File: ccv0604.D
Acq: 04 Jun 2024 06:49 am

Tgt Ion:252 Resp: 29323

Ion	Ratio	Lower	Upper
252	100		
126	13.9	7.7	11.5#
254	65.1	52.0	78.0

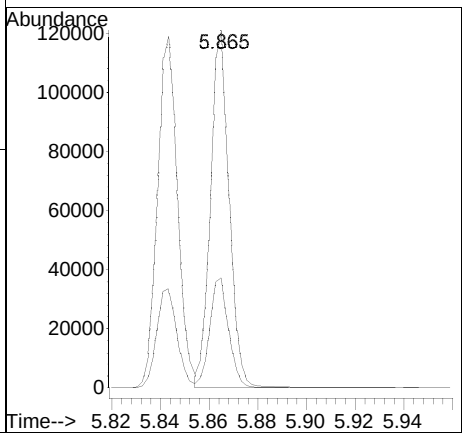


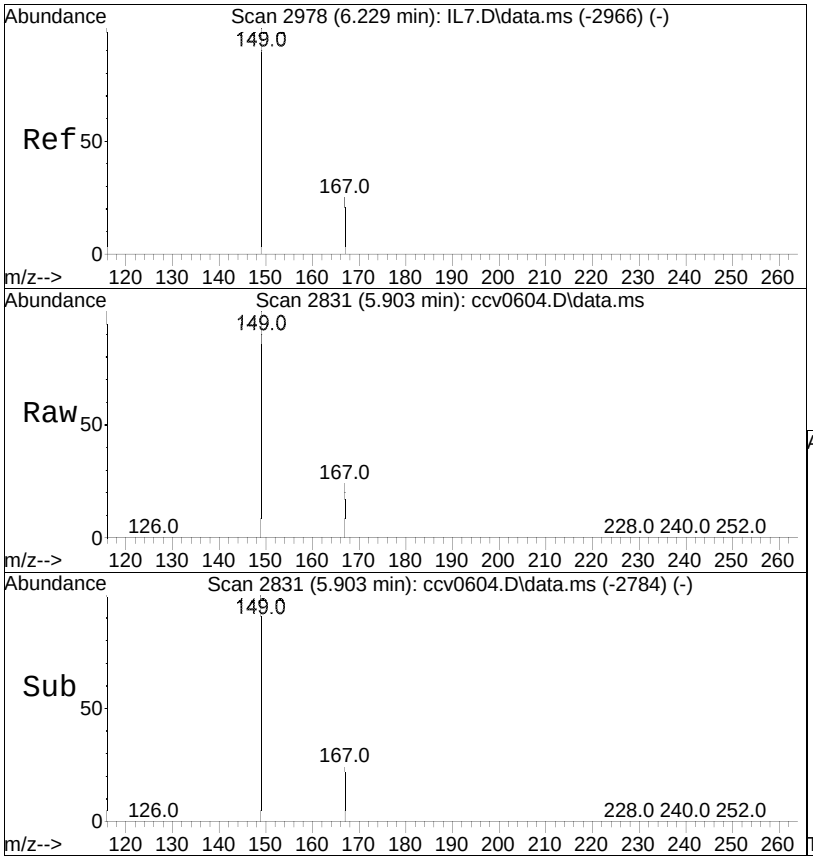


#34
Chrysene
Concen: 1031.28 ng/ml
RT: 5.865 min Scan# 2813
Delta R.T. 0.000 min
Lab File: ccv0604.D
Acq: 04 Jun 2024 06:49 am

Tgt Ion:228 Resp: 64013

Ion	Ratio	Lower	Upper
228	100		
226	31.3	24.5	36.7

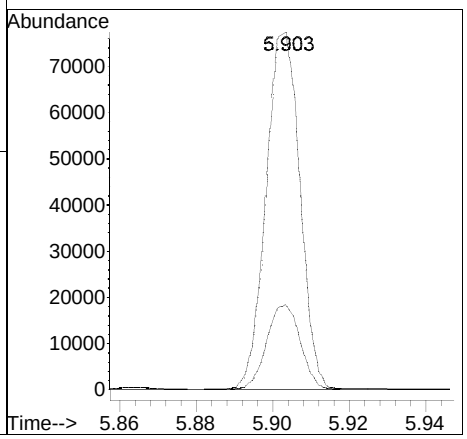


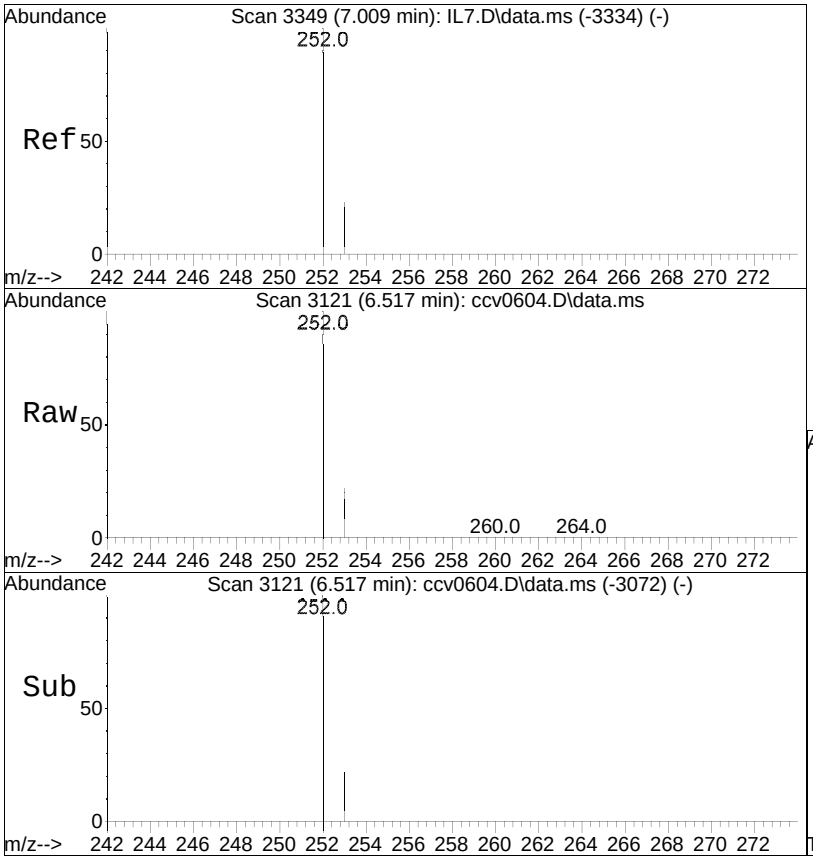


#35
Bis(2-ethylhexyl)phthalate
Concen: 1137.79 ng/ml
RT: 5.903 min Scan# 2831
Delta R.T. 0.000 min
Lab File: ccv0604.D
Acq: 04 Jun 2024 06:49 am

Tgt Ion:149 Resp: 47064

Ion	Ratio	Lower	Upper
149	100		
167	23.6	18.5	27.7

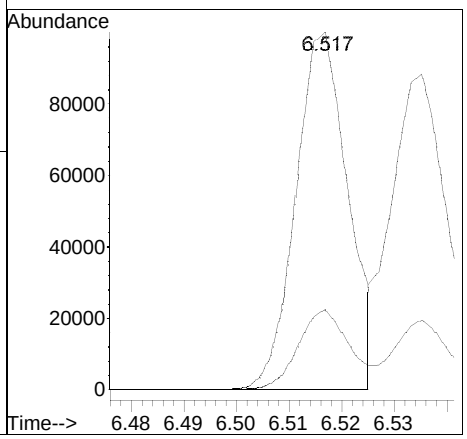


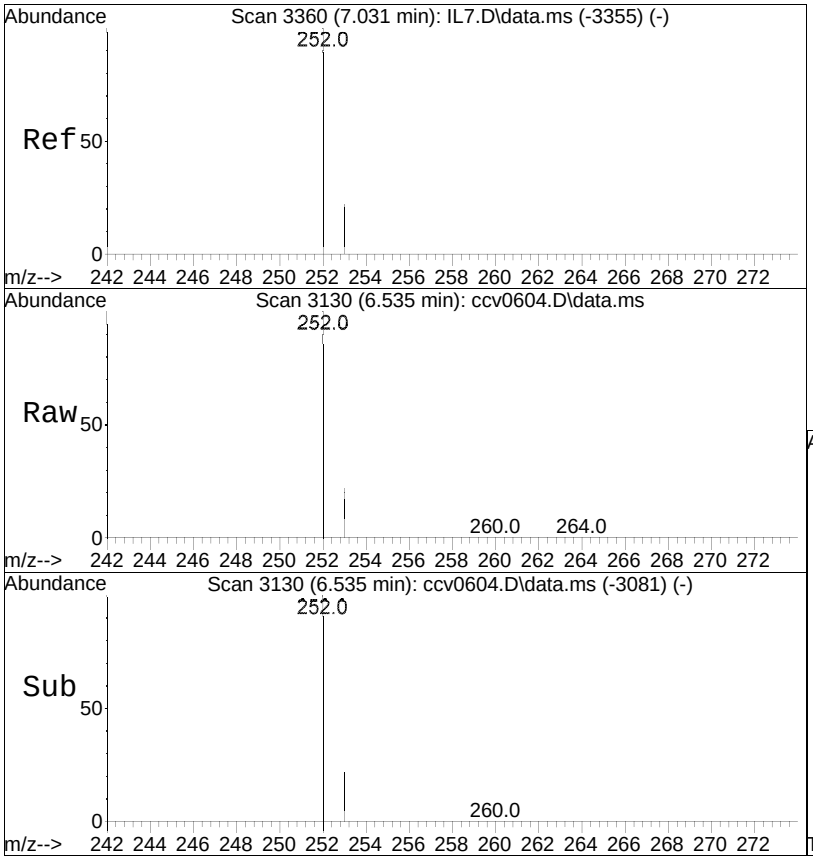


#37
Benzo[b]fluoranthene
Concen: 993.70 ng/ml
RT: 6.517 min Scan# 3121
Delta R.T. 0.000 min
Lab File: ccv0604.D
Acq: 04 Jun 2024 06:49 am

Tgt Ion:252 Resp: 69000

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.3	25.9

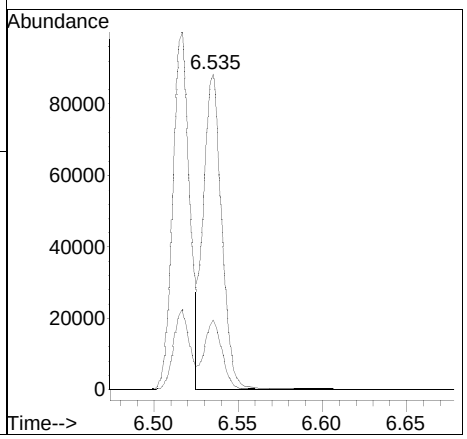


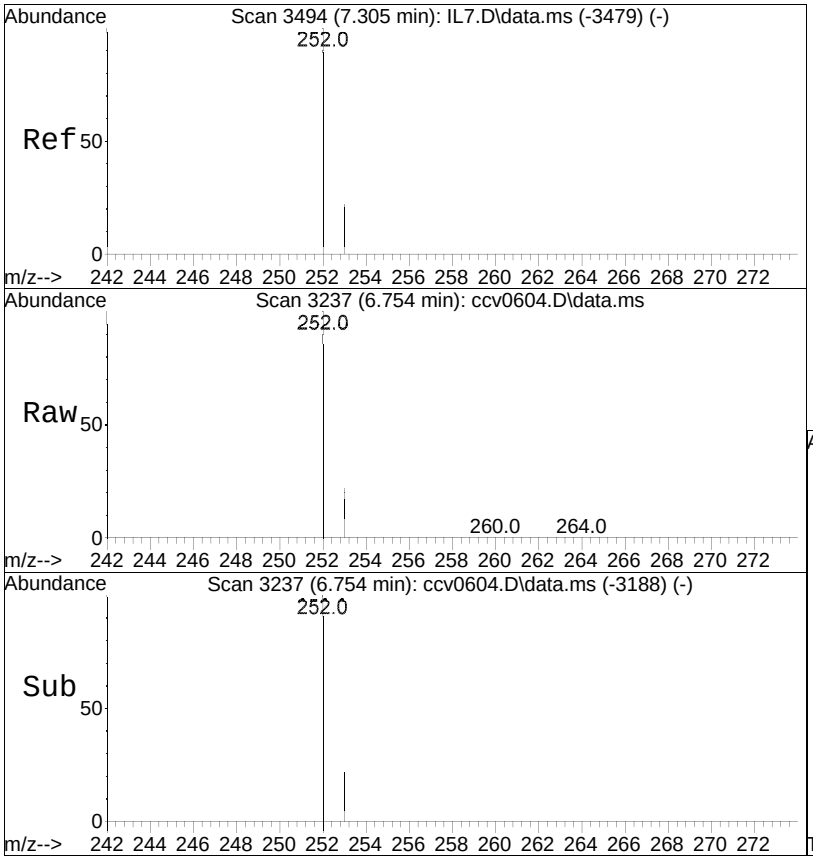


#38
Benzo[k]fluoranthene
Concen: 1007.65 ng/ml
RT: 6.535 min Scan# 3130
Delta R.T. 0.000 min
Lab File: ccv0604.D
Acq: 04 Jun 2024 06:49 am

Tgt Ion:252 Resp: 66439

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.2

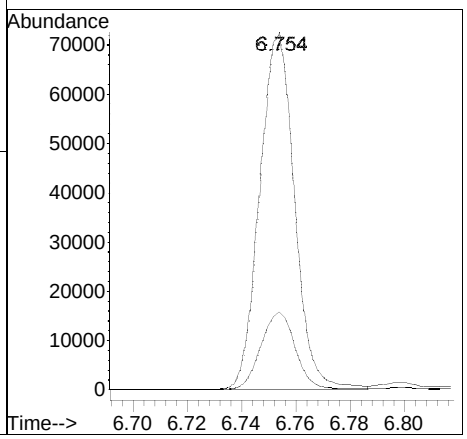


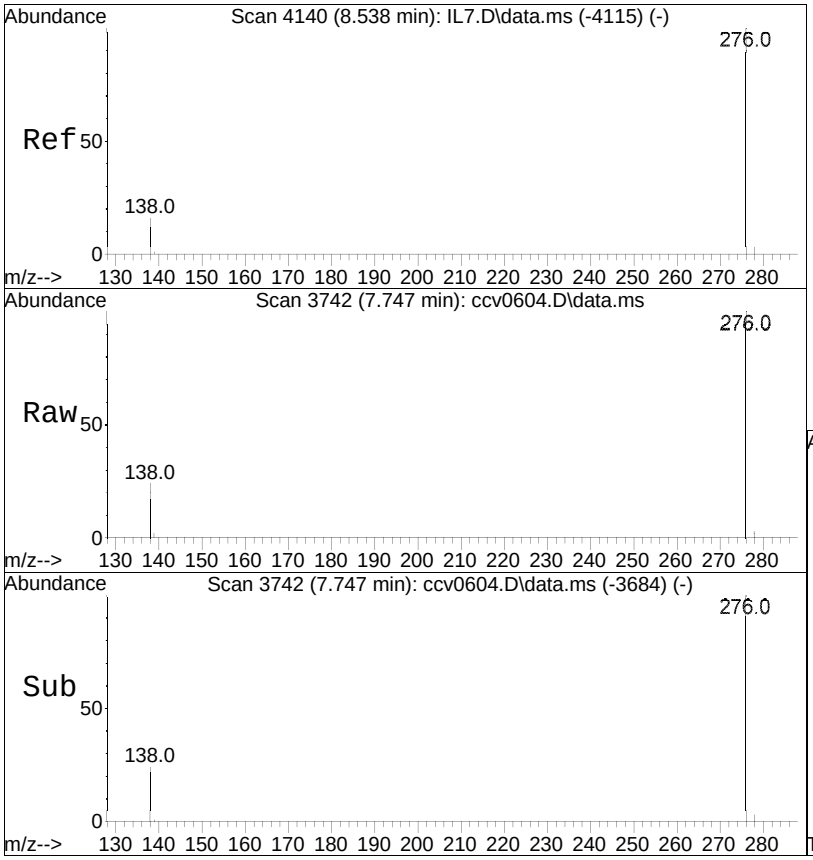


#39
Benzo[a]pyrene
Concen: 1038.66 ng/ml
RT: 6.754 min Scan# 3237
Delta R.T. 0.000 min
Lab File: ccv0604.D
Acq: 04 Jun 2024 06:49 am

Tgt Ion:252 Resp: 63483

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.4	26.0

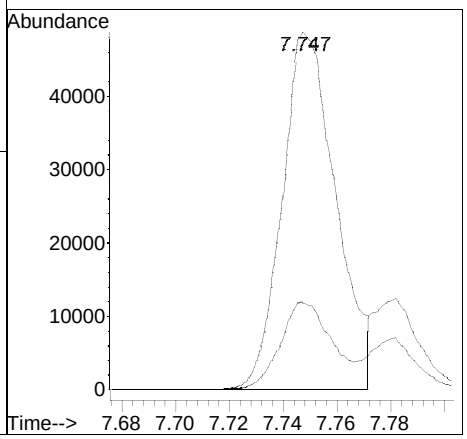


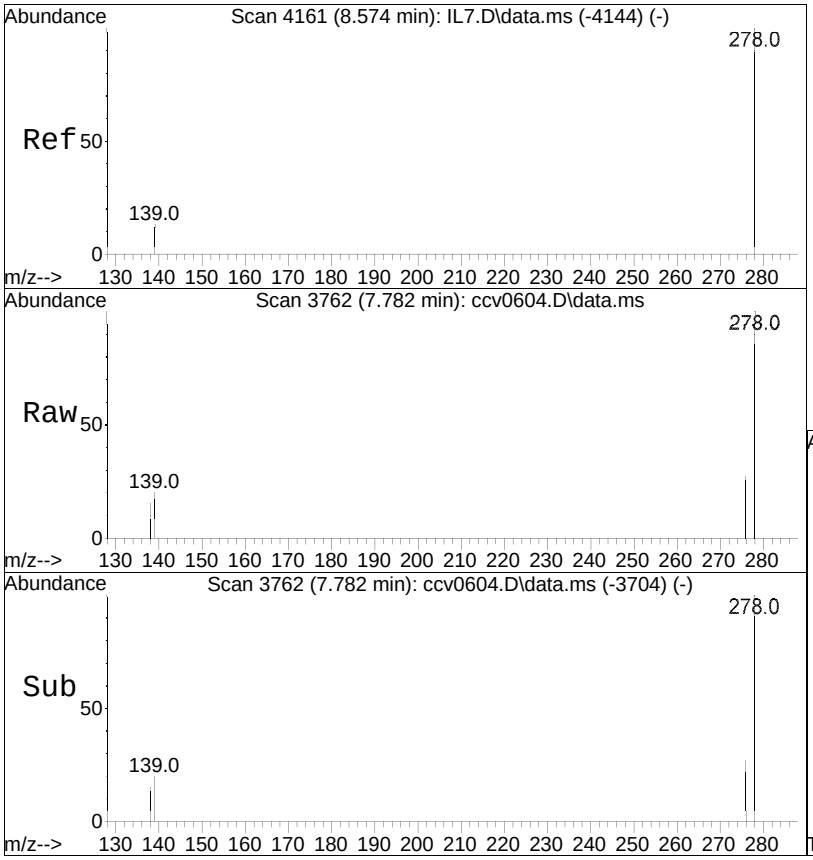


#40
Indeno[1,2,3-cd]pyrene
Concen: 1007.56 ng/ml
RT: 7.747 min Scan# 3742
Delta R.T. 0.000 min
Lab File: ccv0604.D
Acq: 04 Jun 2024 06:49 am

Tgt Ion:276 Resp: 66929

Ion	Ratio	Lower	Upper
276	100		
138	23.5	14.8	22.2#

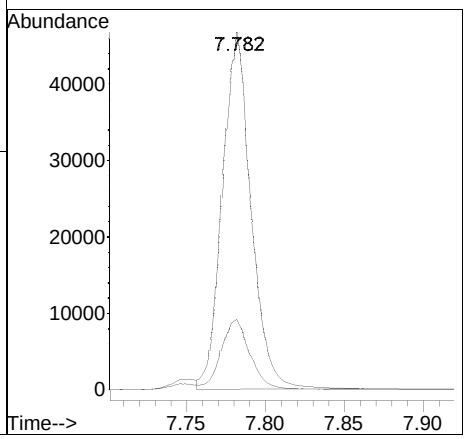


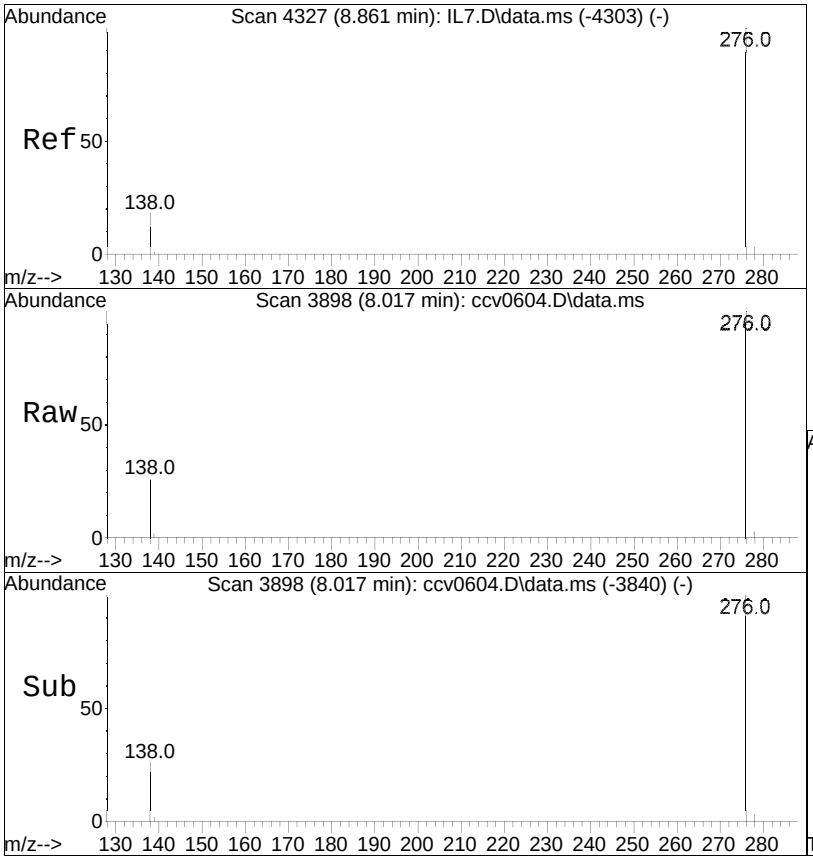


#41
Dibenzo[a,h]anthracene
Concen: 945.71 ng/ml
RT: 7.782 min Scan# 3762
Delta R.T. 0.000 min
Lab File: ccv0604.D
Acq: 04 Jun 2024 06:49 am

Tgt Ion:278 Resp: 58448

Ion	Ratio	Lower	Upper
278	100		
139	19.6	12.2	18.4#

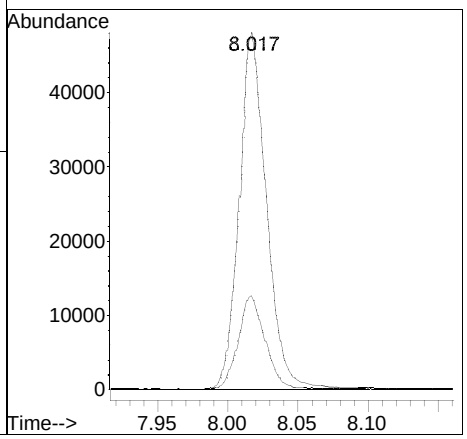




#42
Benzo[g,h,i]perylene
Concen: 949.41 ng/ml
RT: 8.017 min Scan# 3898
Delta R.T. 0.000 min
Lab File: ccv0604.D
Acq: 04 Jun 2024 06:49 am

Tgt Ion:276 Resp: 64151

Ion	Ratio	Lower	Upper
276	100		
138	26.2	16.8	25.2#



Manual Integration Report

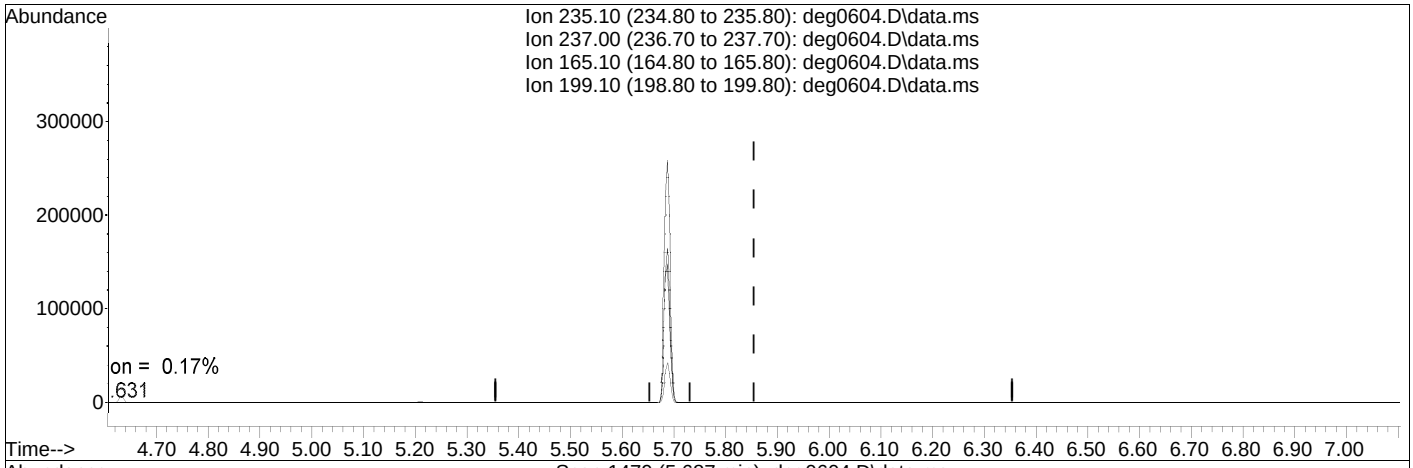
Data Path	: I:\8270SIM\sv119\240604LVI	Method	: SIM-LVI_231207n_sv119.M
Data File	: ccv0604.D	Operator	: sv119:rp
Date Inj'd	: 6/4/2024 6:49 am	Instrument	: SV119
Sample	: WG1929299-3,32,, ICV 10475	Quant Date	: 6/4/2024 7:12 am

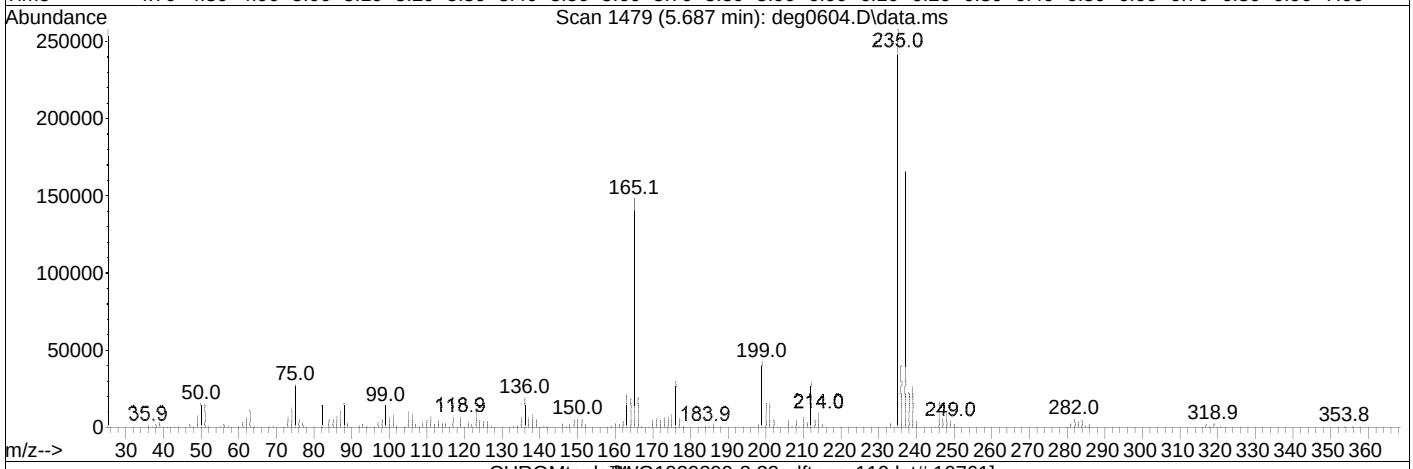
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : deg0604.D
Acq On : 04 Jun 2024 06:31 am
Operator : sv119:rp
Sample : WG1929299-2,32,,dftppsv119 lot# 10761
Misc : WG1929299,,ical20642
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 04 06:47:01 2024
Quant Method : I:\8270SIM\sv119\240604LVI\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 26 08:43:01 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools [WG1929299-2,32,,dftppsv119 lot# 10761]

(6) ddt (T)

5.687min (-0.168) 31.23

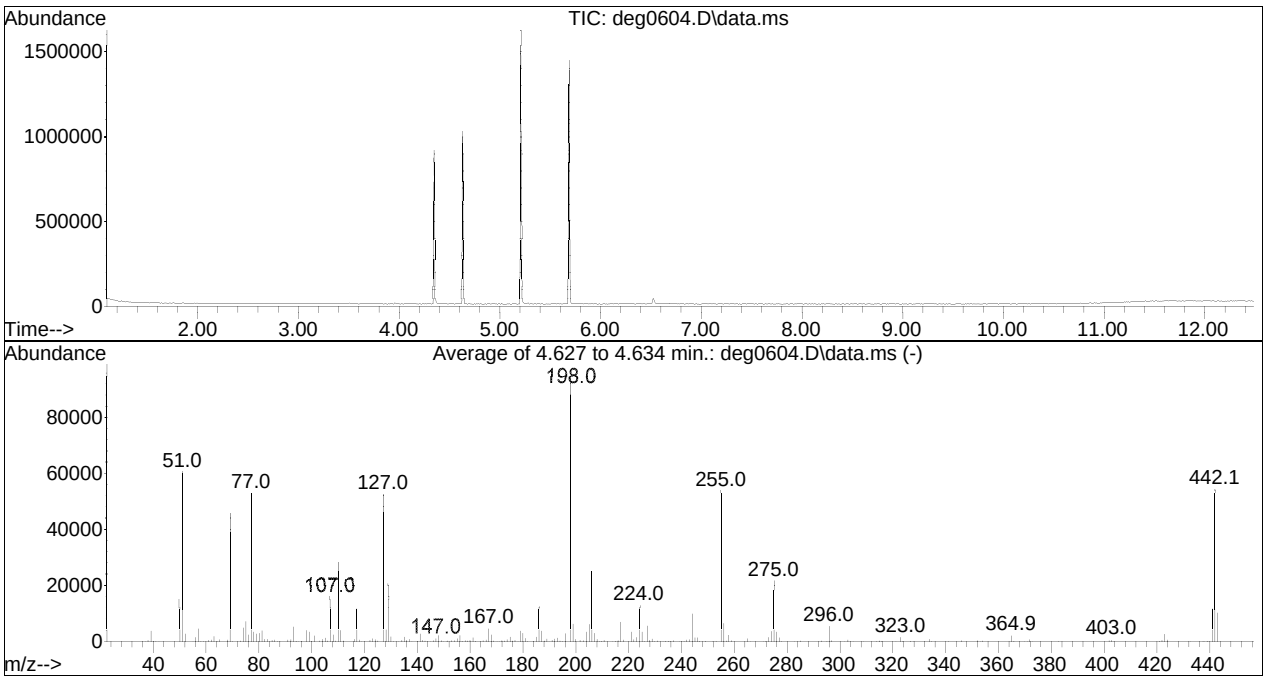
response 190396

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	62.55
165.10	53.30	56.72
199.10	17.10	16.29

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : deg0604.D
Acq On : 04 Jun 2024 06:31 am
Operator : sv119:rp
Sample : WG1929299-1,32,,dftppsv119 lot# 10761
Misc : WG1929299,,ical20642
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Jun 04 07:12:05 2024



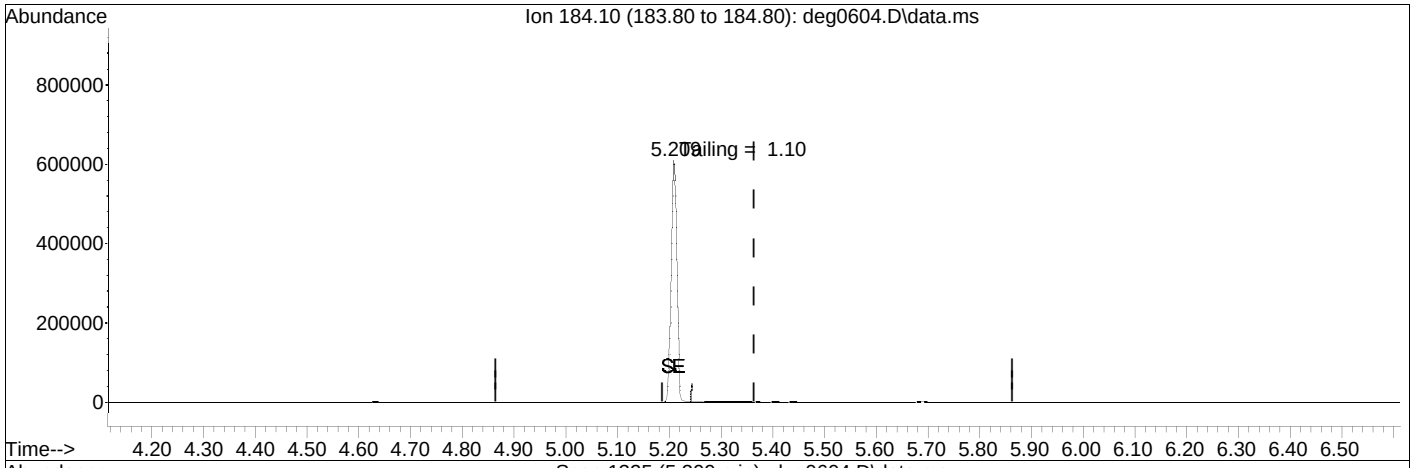
Spectrum Information: Average of 4.627 to 4.634 min.

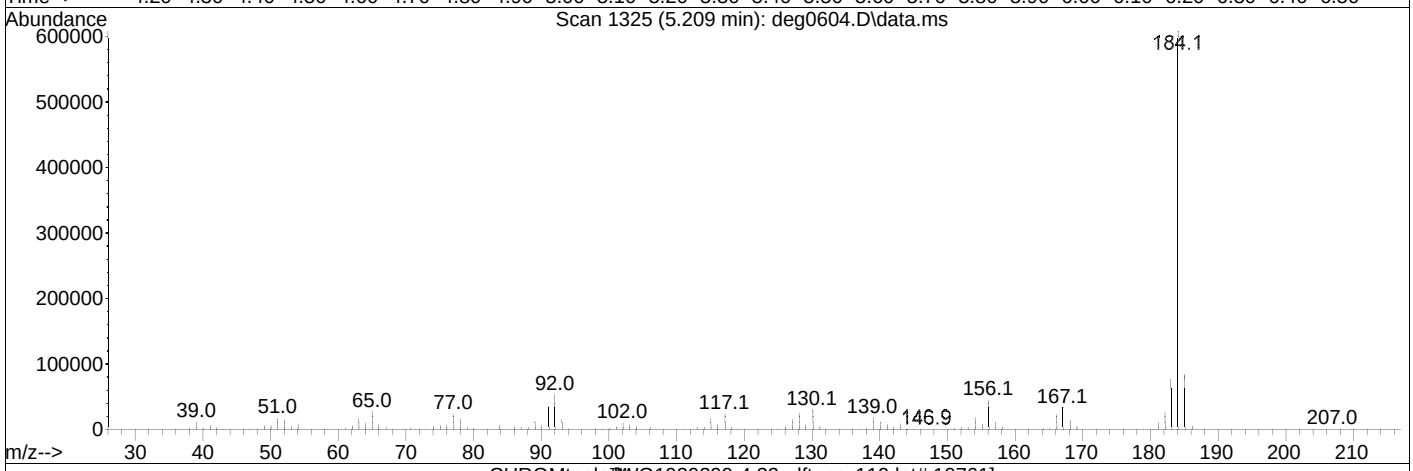
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	64.4	60624	PASS
68	69	0.00	2	1.7	780	PASS
69	69	100	100	100.0	45544	PASS
70	69	0.00	2	0.5	223	PASS
127	198	10	80	55.7	52488	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	94176	PASS
199	198	5	9	6.6	6211	PASS
275	198	10	60	23.0	21653	PASS
365	198	1	100	2.4	2228	PASS
441	442	0.01	24	21.1	11439	PASS
442	198	50	100	57.7	54333	PASS
443	442	15	24	18.5	10042	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : deg0604.D
Acq On : 04 Jun 2024 06:31 am
Operator : sv119:rp
Sample : WG1929299-4,32,,dftppsv119 lot# 10761
Misc : WG1929299,,ical20642
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 04 06:47:01 2024
Quant Method : I:\8270SIM\sv119\240604LVI\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 26 08:43:01 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools [WG1929299-4,32,,dftppsv119 lot# 10761]

(3) benzidine (T)

5.209min (-0.155) 42.87

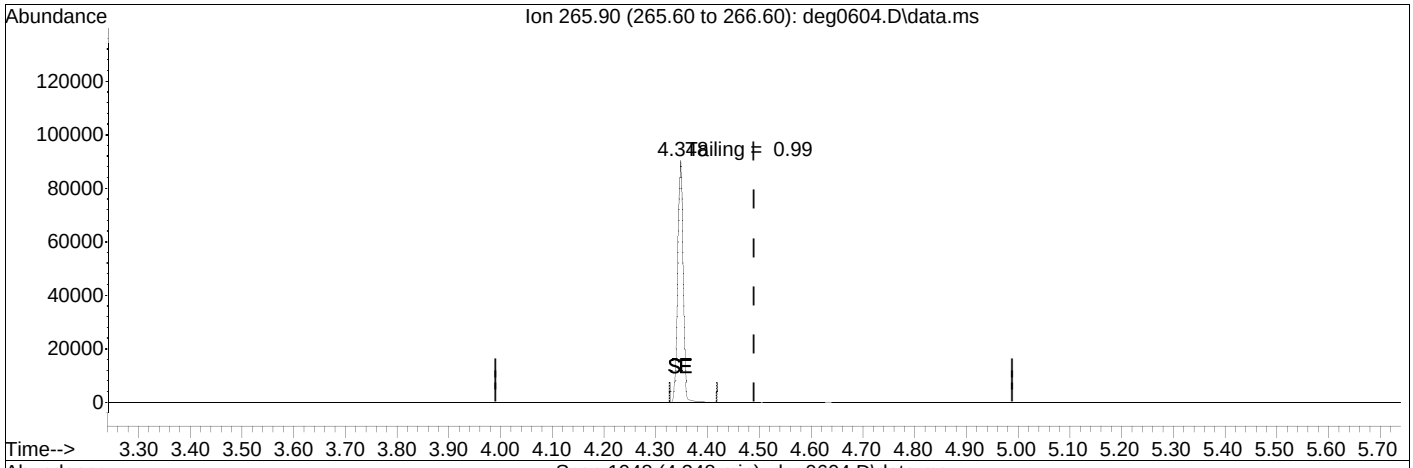
response 436445

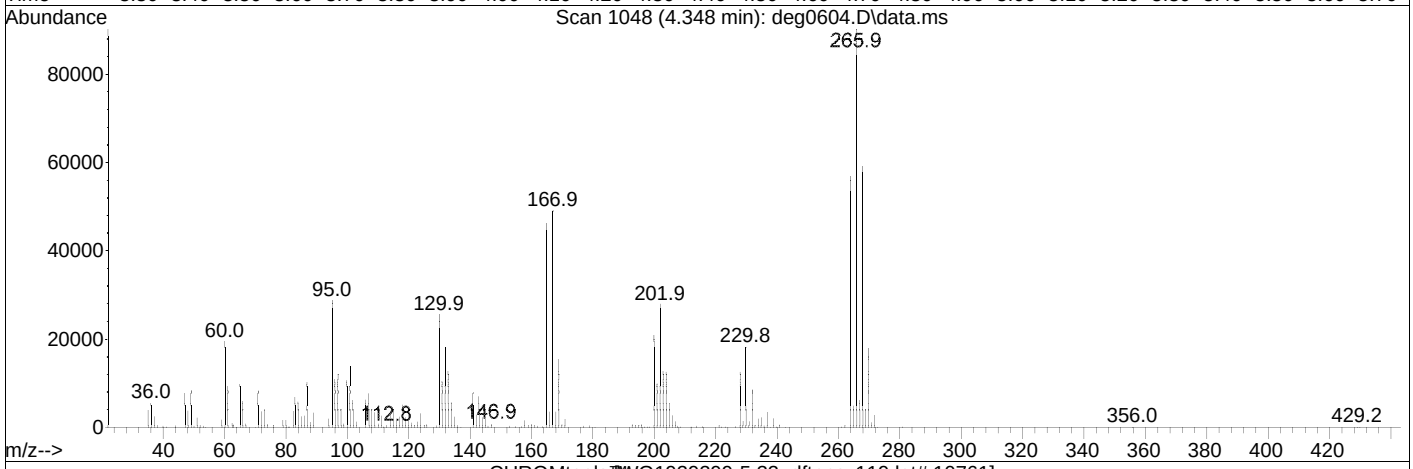
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : deg0604.D
Acq On : 04 Jun 2024 06:31 am
Operator : sv119:rp
Sample : WG1929299-5,32,,dftppsv119 lot# 10761
Misc : WG1929299,,ical20642
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 04 06:47:01 2024
Quant Method : I:\8270SIM\sv119\240604LVI\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 26 08:43:01 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools [WG1929299-5,32,,dftppsv119 lot# 10761]

(1) pentachlorophenol (T)

4.348min (-0.142) 30.26

response 63567

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: SV119	**Calibration Date**	: 06/04/24 06:49		
Lab File ID	: CCV0604	**Init. Calib. Date(s)**	: 12/07/23	12/07/23	
Sample No	: WG1929299-3	**Init. Calib. Times**	: 13:10	15:42	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	128	0
2-Fluorophenol	1.094	1.168	.05	-6.8	20	126	0
Phenol-d6	1.311	1.34	.05	-2.2	20	128	0
Bis(2-chloroethyl)ether	1.115	1.114	.05	0.1	20	127	0
n-nitrosodi-n-propylamine	0.667	0.76	.05	-13.9	20	140	0
Hexachloroethane	0.495	0.537	.05	-8.5	20	137	0
Nitrobenzene-d5	0.995	1.157	.05	-16.3	20	140	0
Naphthalene-d8	1	1	.05	0	20	120	0
Naphthalene	0.955	0.985	.05	-3.1	20	119	0
Hexachlorobutadiene	0.206	0.239	.05	-16	20	133	0
2-Methylnaphthalene	0.706	0.724	.05	-2.5	20	116	0
1-Methylnaphthalene	0.651	0.646	.05	0.8	20	115	0
2-Fluorobiphenyl	0.893	0.832	.05	6.8	20	107	0
2-Chloronaphthalene	0.752	0.744	.05	1.1	20	116	0
2,6-Dinitrotoluene	0.17	0.185	.05	-8.8	20	128	0
Acenaphthylene	1.118	1.118	.05	0	20	113	0
Acenaphthene-d10	1	1	.05	0	20	111	0
Acenaphthene	1.237	1.328	.05	-7.4	20	113	0
2,4-Dinitrotoluene	0.369	0.472	.05	-27.9*	20	130	0
Fluorene	1.478	1.566	.05	-6	20	110	0
2,4,6-Tribromophenol	0.221	0.293	.05	-32.6*	20	136	0
Phenanthrene-d10	1	1	.05	0	20	108	0
4,6-Dinitro-o-cresol	1000	1073.582	.05	-7.4	20	126	0
Hexachlorobenzene	0.259	0.308	.05	-18.9	20	123	0
Pentachlorophenol	1000	1023.663	.05	-2.4	20	116	0
Phenanthrene	1.016	1.053	.05	-3.6	20	107	0
Anthracene	1.008	1.085	.05	-7.6	20	110	0
Fluoranthene	1.339	1.343	.05	-0.3	20	102	0
Pyrene	1.376	1.361	.05	1.1	20	102	0
4-Terphenyl-d14	0.981	0.729	.05	25.7*	20	78	0
Chrysene-d12	1	1	.05	0	20	95	0
Benzo[a]anthracene	1000	1079.119	.05	-7.9	20	92	0
3,3'-Dichlorobenzidine	0.604	0.624	.05	-3.3	20	95	0
Chrysene	1.32	1.361	.05	-3.1	20	95	0
Bis(2-ethylhexyl)phthalate	1000	1137.787	.05	-13.8	20	130	0
Perylene-d12	1	1	.05	0	20	93	0
Benzo[b]fluoranthene	1.397	1.389	.05	0.6	20	85	0
Benzo[k]fluoranthene	1.327	1.337	.05	-0.8	20	90	0
Benzo[a]pyrene	1.23	1.278	.05	-3.9	20	91	0
Indeno[1,2,3-cd]pyrene	1.337	1.347	.05	-0.7	20	88	0
Dibenzo[a,h]anthracene	1.244	1.176	.05	5.5	20	83	0
Benzo[g,h,i]perylene	1.36	1.291	.05	5.1	20	84	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: SV119	**Calibration Date**	: 06/06/24 06:36		
Lab File ID	: CCV0606	**Init. Calib. Date(s)**	: 12/07/23	12/07/23	
Sample No	: WG1930543-3	**Init. Calib. Times**	: 13:10	15:42	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	101	0
2-Fluorophenol	1.094	1.153	.05	-5.4	20	98	0
Phenol-d6	1.311	1.336	.05	-1.9	20	100	0
Bis(2-chloroethyl)ether	1.115	1.119	.05	-0.4	20	100	0
n-nitrosodi-n-propylamine	0.667	0.758	.05	-13.6	20	110	0
Hexachloroethane	0.495	0.524	.05	-5.9	20	105	0
Nitrobenzene-d5	0.995	1.166	.05	-17.2	20	112	0
Naphthalene-d8	1	1	.05	0	20	96	0
Naphthalene	0.955	0.989	.05	-3.6	20	95	0
Hexachlorobutadiene	0.206	0.234	.05	-13.6	20	104	0
2-Methylnaphthalene	0.706	0.711	.05	-0.7	20	91	0
1-Methylnaphthalene	0.651	0.643	.05	1.2	20	91	0
2-Fluorobiphenyl	0.893	0.828	.05	7.3	20	85	0
2-Chloronaphthalene	0.752	0.744	.05	1.1	20	92	0
2,6-Dinitrotoluene	0.17	0.183	.05	-7.6	20	101	0
Acenaphthylene	1.118	1.111	.05	0.6	20	90	0
Acenaphthene-d10	1	1	.05	0	20	90	0
Acenaphthene	1.237	1.314	.05	-6.2	20	90	0
2,4-Dinitrotoluene	0.369	0.472	.05	-27.9*	20	106	0
Fluorene	1.478	1.567	.05	-6	20	89	0
2,4,6-Tribromophenol	0.221	0.298	.05	-34.8*	20	112	0
Phenanthrene-d10	1	1	.05	0	20	90	0
4,6-Dinitro-o-cresol	1000	1056.935	.05	-5.7	20	103	0
Hexachlorobenzene	0.259	0.302	.05	-16.6	20	100	0
Pentachlorophenol	1000	969.309	.05	3.1	20	91	0
Phenanthrene	1.016	1.07	.05	-5.3	20	90	0
Anthracene	1.008	1.08	.05	-7.1	20	91	0
Fluoranthene	1.339	1.395	.05	-4.2	20	88	0
Pyrene	1.376	1.446	.05	-5.1	20	90	0
4-Terphenyl-d14	0.981	0.791	.05	19.4	20	70	0
Chrysene-d12	1	1	.05	0	20	89	0
Benzo[a]anthracene	1000	1071.832	.05	-7.2	20	86	0
3,3'-Dichlorobenzidine	0.604	0.624	.05	-3.3	20	89	0
Chrysene	1.32	1.346	.05	-2	20	88	0
Bis(2-ethylhexyl)phthalate	1000	1146.229	.05	-14.6	20	123	0
Perylene-d12	1	1	.05	0	20	87	0
Benzo[b]fluoranthene	1.397	1.395	.05	0.1	20	81	0
Benzo[k]fluoranthene	1.327	1.344	.05	-1.3	20	85	0
Benzo[a]pyrene	1.23	1.272	.05	-3.4	20	85	0
Indeno[1,2,3-cd]pyrene	1.337	1.288	.05	3.7	20	79	0
Dibenzo[a,h]anthracene	1.244	1.169	.05	6	20	78	0
Benzo[g,h,i]perylene	1.36	1.246	.05	8.4	20	76	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\240606LVI\
Data File : ccv0606.D
Acq On : 06 Jun 2024 06:36 am
Operator : sv119:ah
Sample : WG1930543-3,32,, ICV 10475 (0603)
Misc : WG1930543,,ical20642
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 06 06:54:14 2024
Quant Method : I:\8270SIM\sv119\240606LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 07:21:53 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
2	s	2-Fluorophenol	1.094	1.153	-5.4	98	0.00
3	s	Phenol-d6	1.311	1.336	-1.9	100	0.00
4	T	Bis(2-chloroethyl)ether	1.115	1.119	-0.4	100	0.00
5	T	n-nitrosodi-n-propylamine	0.667	0.758	-13.6	110	0.00
6	t	Hexachloroethane	0.495	0.524	-5.9	105	0.00
7	s	Nitrobenzene-d5	0.995	1.166	-17.2	112	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	96	0.00
9	t	Naphthalene	0.955	0.989	-3.6	95	0.00
10	t	Hexachlorobutadiene	0.206	0.234	-13.6	104	0.00
11	t	2-Methylnaphthalene	0.706	0.711	-0.7	91	0.00
12	t	1-Methylnaphthalene	0.651	0.643	1.2	91	0.00
13	s	2-Fluorobiphenyl	0.893	0.828	7.3	85	0.00
14	t	2-Chloronaphthalene	0.752	0.744	1.1	92	0.00
15	t	2,6-Dinitrotoluene	0.170	0.183	-7.6	101	0.00
16	t	Acenaphthylene	1.118	1.111	0.6	90	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	90	0.00
18	t	Acenaphthene	1.237	1.314	-6.2	90	0.00
19	t	2,4-Dinitrotoluene	0.369	0.472	-27.9#	106	0.00
20	t	Fluorene	1.478	1.567	-6.0	89	0.00
21	s	2,4,6-Tribromophenol	0.221	0.298	-34.8#	112	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	90	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	1056.935	-5.7	103	0.00
24	t	Hexachlorobenzene	0.259	0.302	-16.6	100	0.00
25	t	Pentachlorophenol	*1000.000	969.309	3.1	91	0.00
26	t	Phenanthrene	1.016	1.070	-5.3	90	0.00
27	t	Anthracene	1.008	1.080	-7.1	91	0.00
28	t	Fluoranthene	1.339	1.395	-4.2	88	0.00
29	t	Pyrene	1.376	1.446	-5.1	90	0.00
30	s	4-Terphenyl-d14	0.981	0.791	19.4	70	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	89	0.00
32	t	Benzo[a]anthracene	*1000.000	1071.832	-7.2	86	0.00
33	t	3,3'-Dichlorobenzidine	0.604	0.624	-3.3	89	0.00
34	t	Chrysene	1.320	1.346	-2.0	88	0.00
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	1146.229	-14.6	123	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\240606LVI\
Data File : ccv0606.D
Acq On : 06 Jun 2024 06:36 am
Operator : sv119:ah
Sample : WG1930543-3,32,, ICV 10475 (0603)
Misc : WG1930543,,ical20642
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 06 06:54:14 2024
Quant Method : I:\8270SIM\sv119\240606LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 07:21:53 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	87	0.00
37	t	Benzo[b]fluoranthene	1.397	1.395	0.1	81	0.00
38	t	Benzo[k]fluoranthene	1.327	1.344	-1.3	85	0.00
39	t	Benzo[a]pyrene	1.230	1.272	-3.4	85	0.00
40	t	Indeno[1,2,3-cd]pyrene	1.337	1.288	3.7	79	0.00
41	t	Dibenzo[a,h]anthracene	1.244	1.169	6.0	78	0.00
42	t	Benzo[g,h,i]perylene	1.360	1.246	8.4	76	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240606LVI\
Data File : ccv0606.D
Acq On : 06 Jun 2024 06:36 am
Operator : sv119:ah
Sample : WG1930543-3,32,, ICV 10475 (0603)
Misc : WG1930543,,ical20642
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 06 06:54:14 2024
Quant Method : I:\8270SIM\sv119\240606LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 07:21:53 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.899	152	44606	4000.000	ng/ml	0.00
8) Naphthalene-d8	2.546	136	148665	4000.000	ng/ml	0.00
17) Acenaphthene-d10	3.496	164	79727	4000.000	ng/ml	0.00
22) Phenanthrene-d10	4.316	188	178963	4000.000	ng/ml	0.00
31) Chrysene-d12	5.850	240	176607	4000.000	ng/ml	0.00
36) Perylene-d12	6.801	264	187208	4000.000	ng/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	1.326	112	12853	1053.483	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 21.07%			
3) Phenol-d6	1.733	99	14897	1018.623	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 20.37%			
7) Nitrobenzene-d5	2.177	82	13001	1171.959	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 46.88%			
13) 2-Fluorobiphenyl	3.135	172	30787	927.246	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 37.09%			
21) 2,4,6-Tribromophenol	3.935	330	5934	1350.024	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 27.00%			
30) 4-Terphenyl-d14	5.232	244	35376	806.345	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 32.25%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.775	93	12477	1003.186	ng/ml#	78
5) n-nitrosodi-n-propylamine	2.105	70	8451	1136.104	ng/ml	99
6) Hexachloroethane	2.149	117	5845	1059.248	ng/ml	88
9) Naphthalene	2.555	128	36774	1035.939	ng/ml	100
10) Hexachlorobutadiene	2.631	225	8714	1139.855	ng/ml	100
11) 2-Methylnaphthalene	2.929	142	26424	1006.744	ng/ml	98
12) 1-Methylnaphthalene	2.981	142	23894	987.198	ng/ml	99
14) 2-Chloronaphthalene	3.191	162	27637	988.503	ng/ml	99
15) 2,6-Dinitrotoluene	3.391	165	6813	1079.167	ng/ml	92
16) Acenaphthylene	3.416	152	41295	993.915	ng/ml	100
18) Acenaphthene	3.514	153	26191	1062.637	ng/ml	99
19) 2,4-Dinitrotoluene	3.616	165	9415	1281.211	ng/ml#	73
20) Fluorene	3.799	166	31229	1060.012	ng/ml	98
23) 4,6-Dinitro-o-cresol	3.839	198	5466	1056.935	ng/ml	95
24) Hexachlorobenzene	4.109	284	13526	1169.105	ng/ml	100
25) Pentachlorophenol	4.223	266	7092	969.309	ng/ml	99
26) Phenanthrene	4.330	178	47852	1052.624	ng/ml	100
27) Anthracene	4.357	178	48298	1071.366	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240606LVI\
Data File : ccv0606.D
Acq On : 06 Jun 2024 06:36 am
Operator : sv119:ah
Sample : WG1930543-3,32,, ICV 10475 (0603)
Misc : WG1930543,,ical20642
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 06 06:54:14 2024
Quant Method : I:\8270SIM\sv119\240606LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 07:21:53 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Fluoranthene	5.000	202	62409	1041.642	ng/ml	100
29) Pyrene	5.126	202	64704	1051.193	ng/ml	100
32) Benzo[a]anthracene	5.843	228	63442	1071.832	ng/ml	100
33) 3,3'-Dichlorobenzidine	5.843	252	27552	1032.623	ng/ml#	98
34) Chrysene	5.863	228	59447	1019.902	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	5.903	149	44532	1146.229	ng/ml	99
37) Benzo[b]fluoranthene	6.515	252	65269	997.963	ng/ml	100
38) Benzo[k]fluoranthene	6.535	252	62922	1013.182	ng/ml	100
39) Benzo[a]pyrene	6.754	252	59541	1034.270	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	7.752	276	60288	963.578	ng/ml#	88
41) Dibenzo[a,h]anthracene	7.782	278	54689M6	939.482	ng/ml	
42) Benzo[g,h,i]perylene	8.020	276	58295	915.975	ng/ml#	90

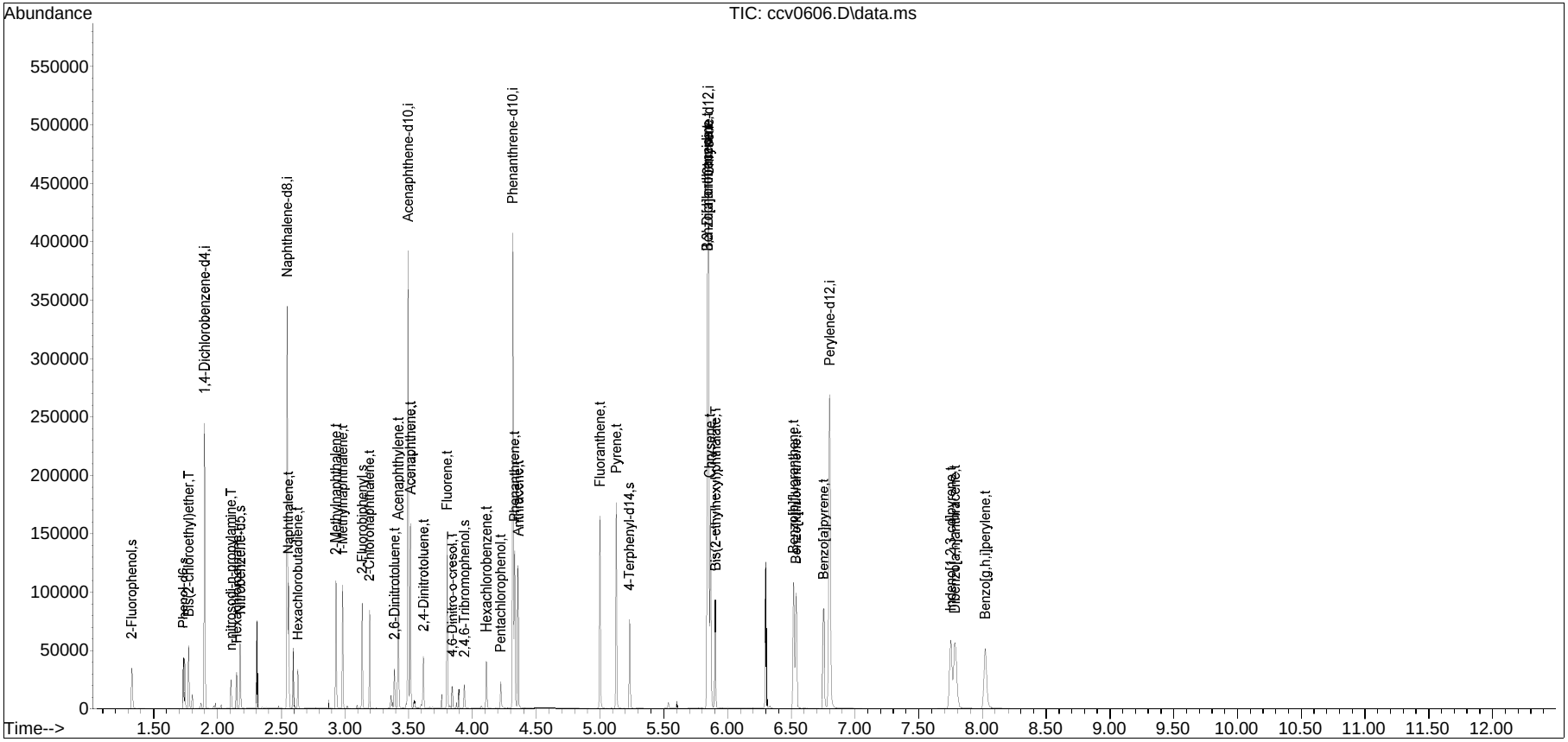
(#) = qualifier out of range (m) = manual integration (+) = signals summed

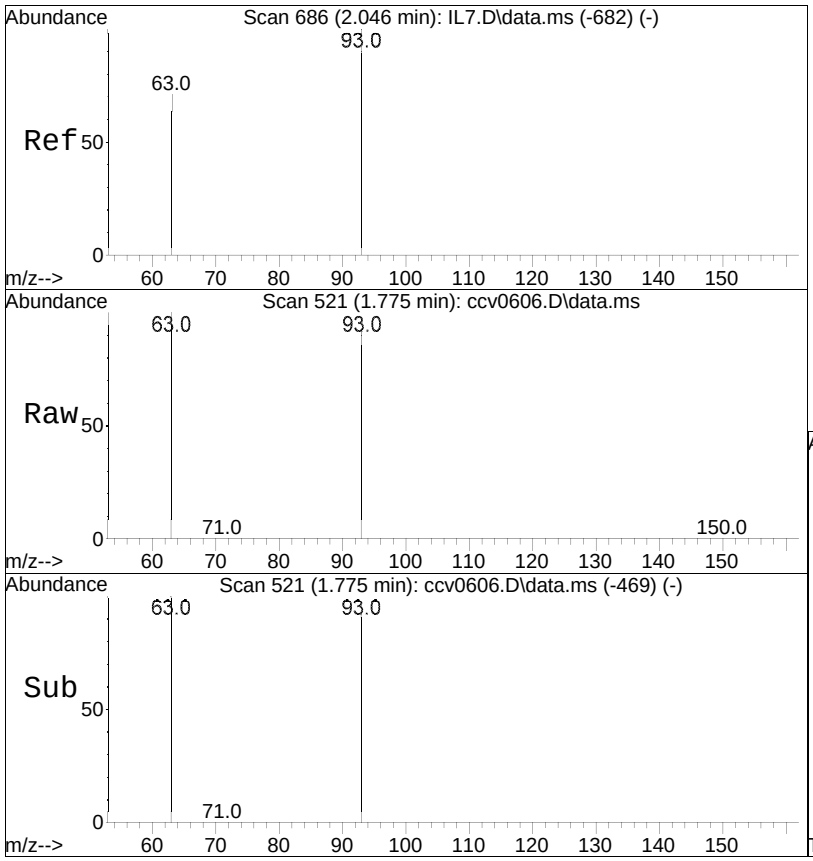
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240606LVI\
Data File : ccv0606.D
Acq On : 06 Jun 2024 06:36 am
Operator : sv119:ah
Sample : WG1930543-3,32,, ICV 10475 (0603)
Misc : WG1930543,,ical20642
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 06 06:54:14 2024
Quant Method : I:\8270SIM\sv119\240606LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 05 07:21:53 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

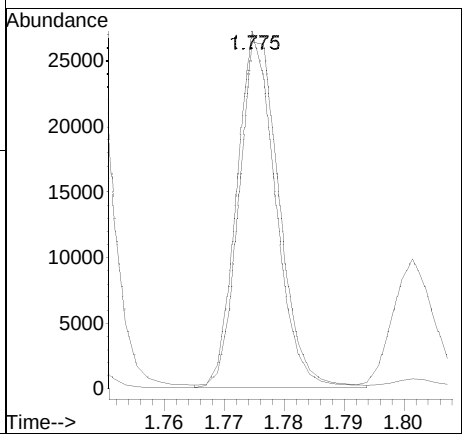


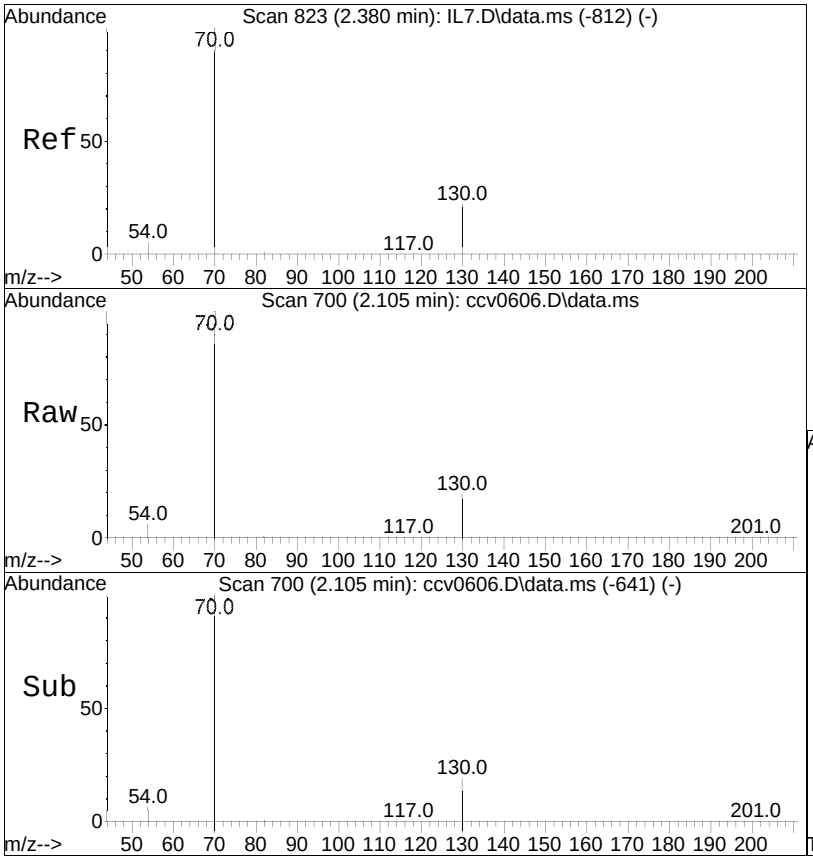


#4
Bis(2-chloroethyl)ether
Concen: 1003.19 ng/ml
RT: 1.775 min Scan# 521
Delta R.T. 0.000 min
Lab File: ccv0606.D
Acq: 06 Jun 2024 06:36 am

Tgt Ion: 93 Resp: 12477

Ion	Ratio	Lower	Upper
93	100		
63	97.8	62.6	94.0#

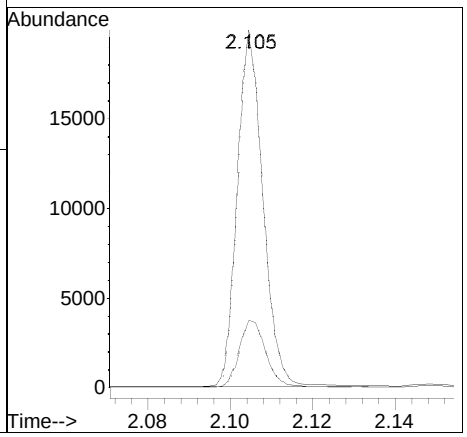


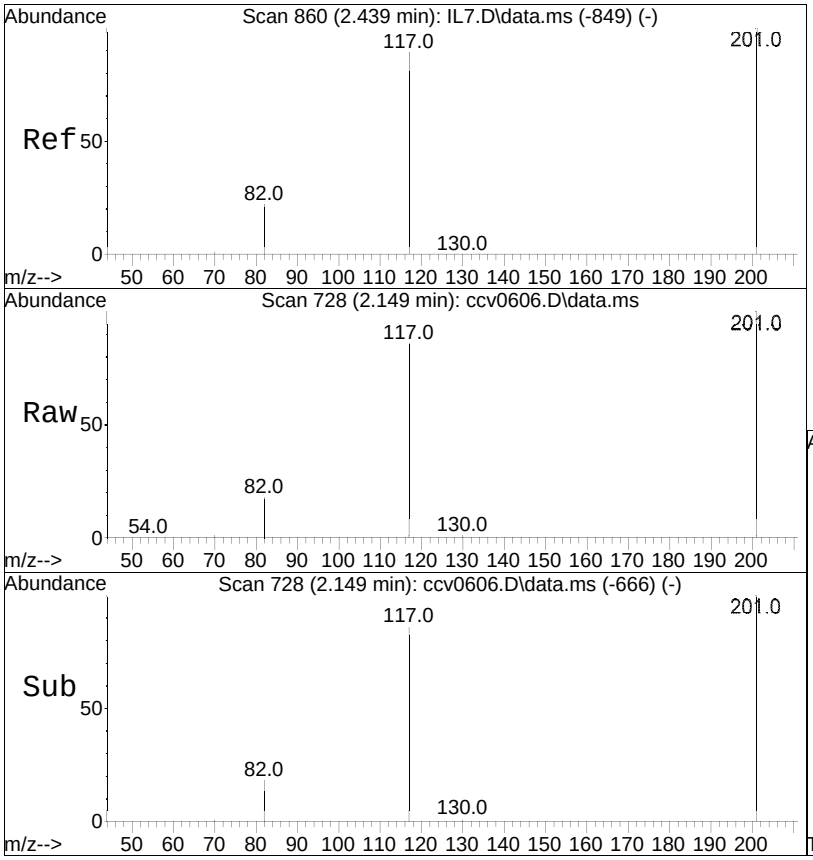


#5
n-nitrosodi-n-propylamine
Concen: 1136.10 ng/ml
RT: 2.105 min Scan# 700
Delta R.T. 0.000 min
Lab File: ccv0606.D
Acq: 06 Jun 2024 06:36 am

Tgt Ion: 70 Resp: 8451

Ion	Ratio	Lower	Upper
70	100		
130	19.1	15.0	22.6

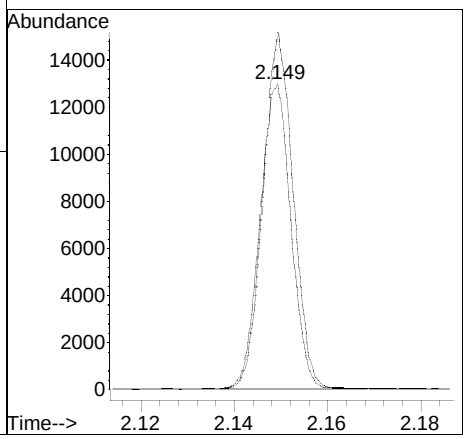


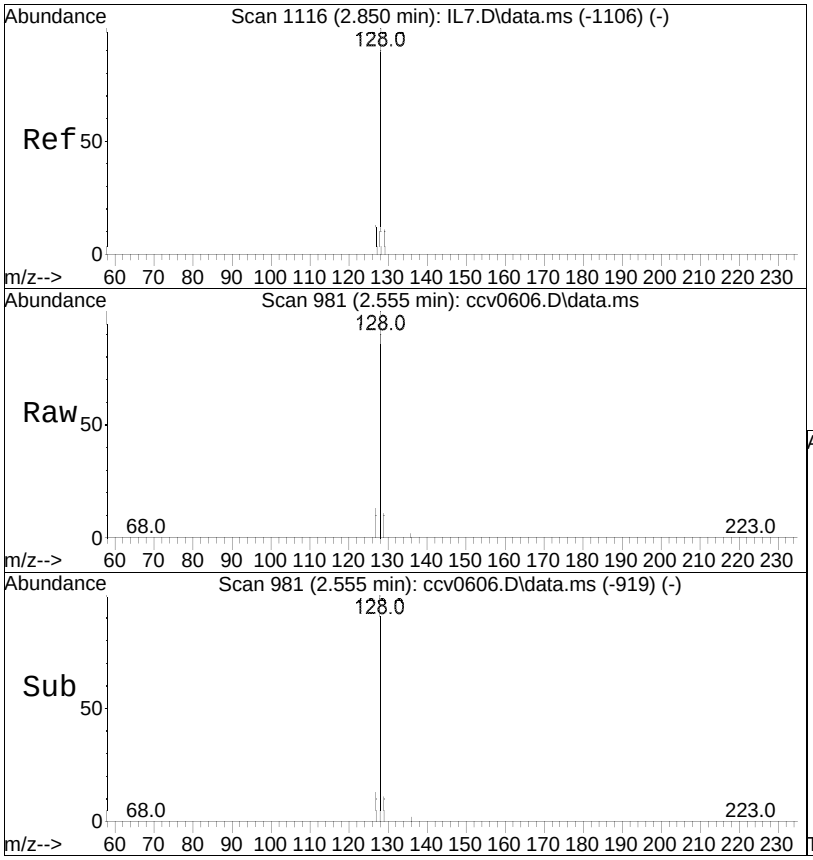


#6
Hexachloroethane
Concen: 1059.25 ng/ml
RT: 2.149 min Scan# 728
Delta R.T. 0.000 min
Lab File: ccv0606.D
Acq: 06 Jun 2024 06:36 am

Tgt Ion:117 Resp: 5845

Ion	Ratio	Lower	Upper
117	100		
201	113.8	81.5	122.3

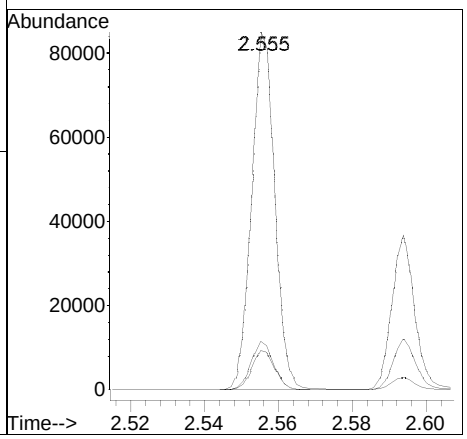


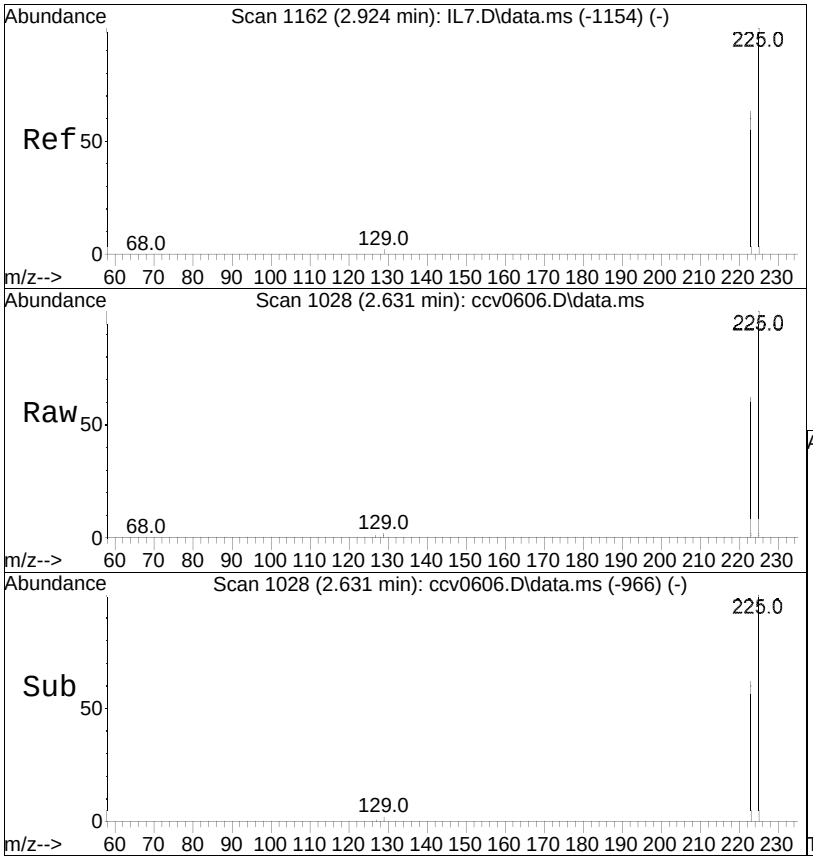


#9
Naphthalene
Concen: 1035.94 ng/ml
RT: 2.555 min Scan# 981
Delta R.T. 0.000 min
Lab File: ccv0606.D
Acq: 06 Jun 2024 06:36 am

Tgt Ion:128 Resp: 36774

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.2	10.6	15.8

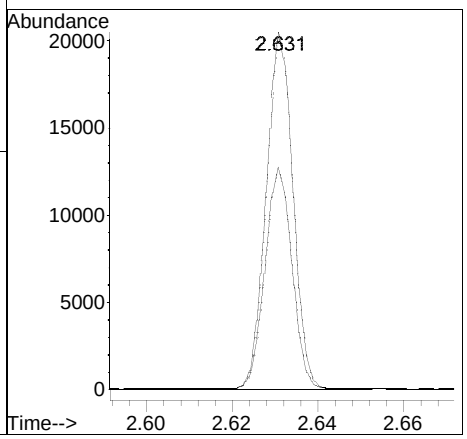


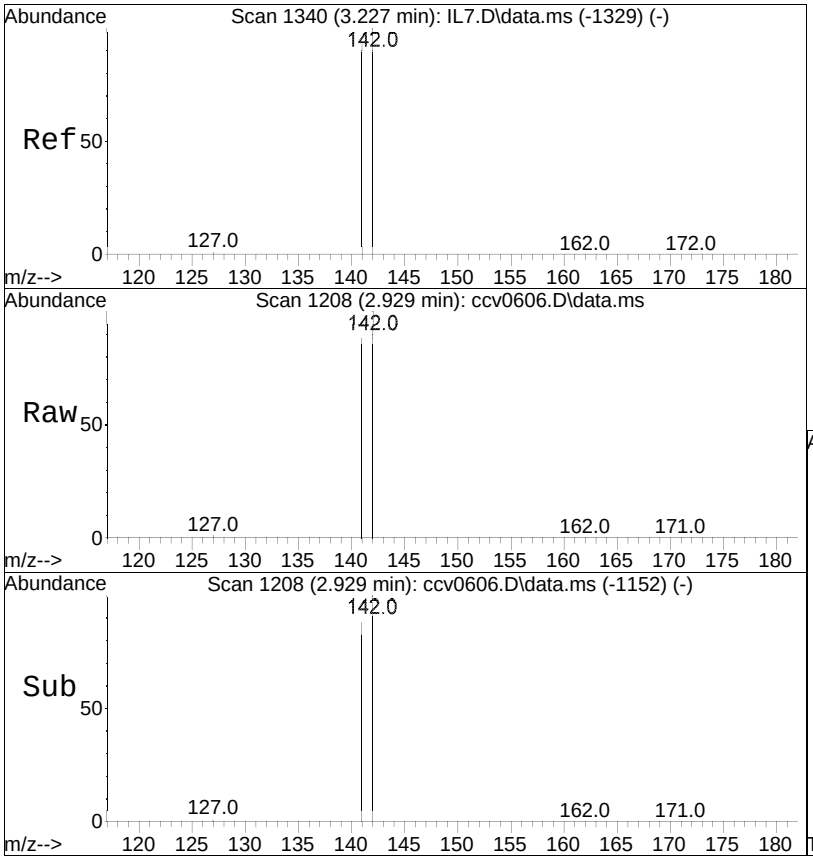


#10
Hexachlorobutadiene
Concen: 1139.86 ng/ml
RT: 2.631 min Scan# 1028
Delta R.T. 0.000 min
Lab File: ccv0606.D
Acq: 06 Jun 2024 06:36 am

Tgt Ion:225 Resp: 8714

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.1	75.1

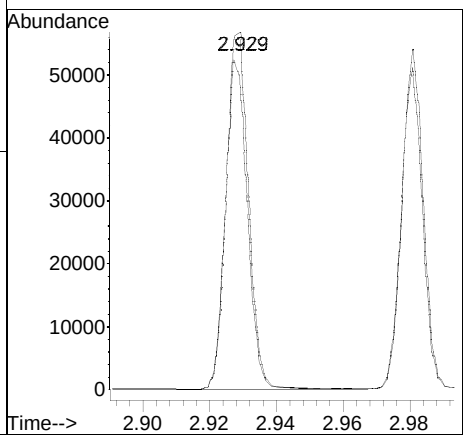


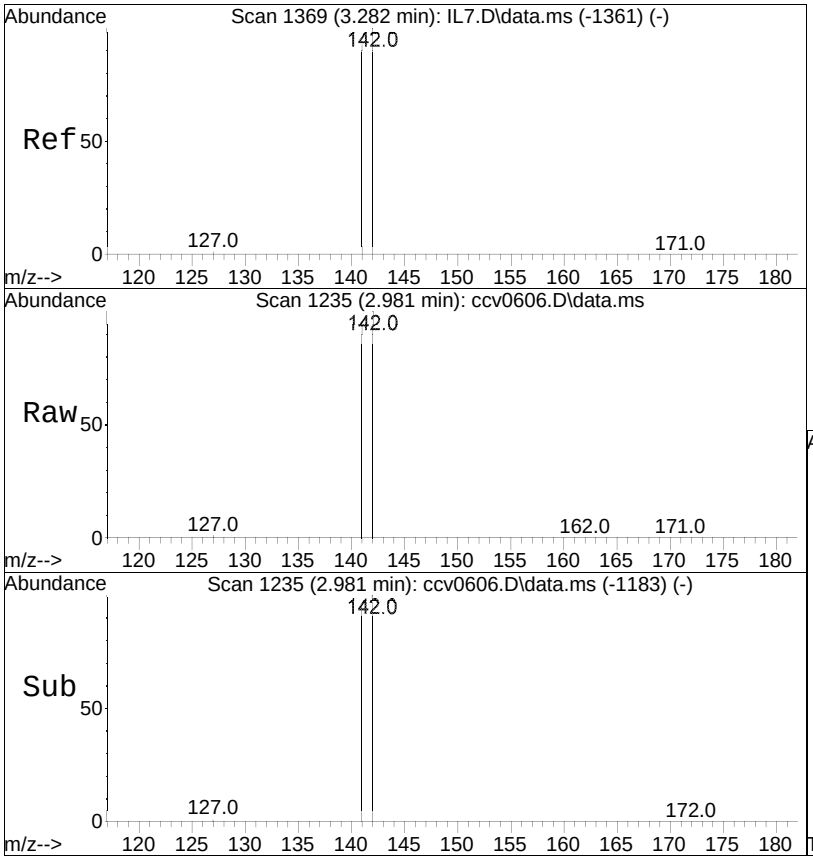


#11
2-Methylnaphthalene
Concen: 1006.74 ng/ml
RT: 2.929 min Scan# 1208
Delta R.T. 0.000 min
Lab File: ccv0606.D
Acq: 06 Jun 2024 06:36 am

Tgt Ion:142 Resp: 26424

Ion	Ratio	Lower	Upper
142	100		
141	90.9	74.1	111.1

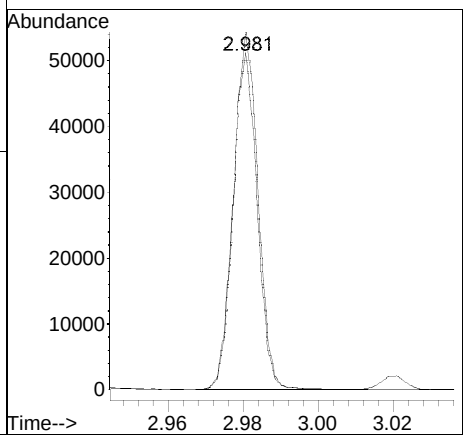


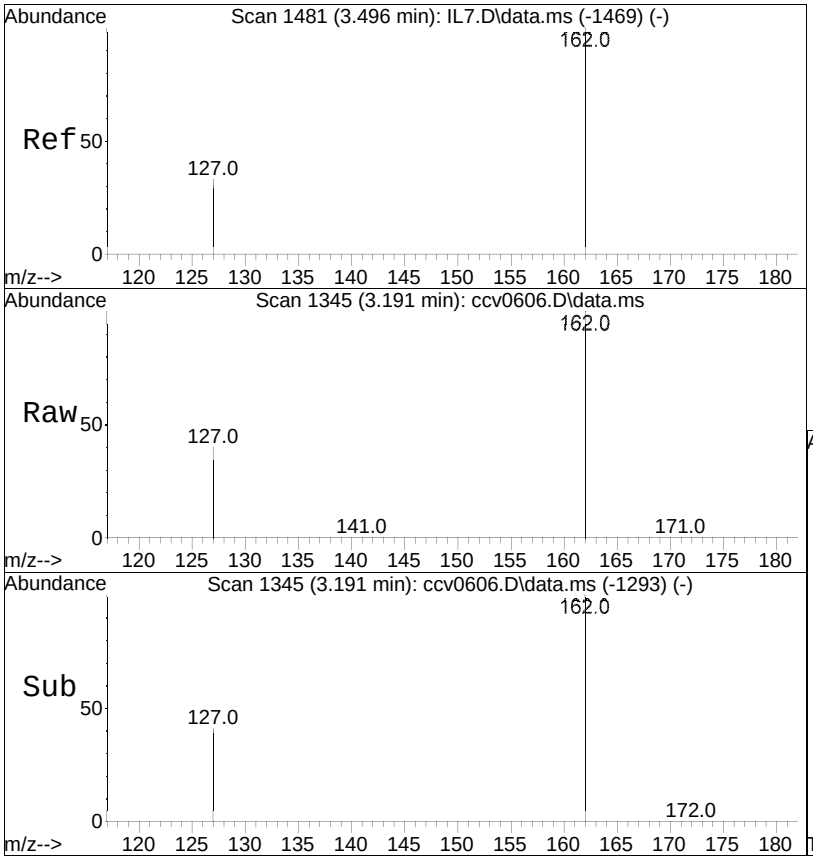


#12
1-Methylnaphthalene
Concen: 987.20 ng/ml
RT: 2.981 min Scan# 1235
Delta R.T. 0.000 min
Lab File: ccv0606.D
Acq: 06 Jun 2024 06:36 am

Tgt Ion:142 Resp: 23894

Ion	Ratio	Lower	Upper
142	100		
141	94.7	76.6	114.8

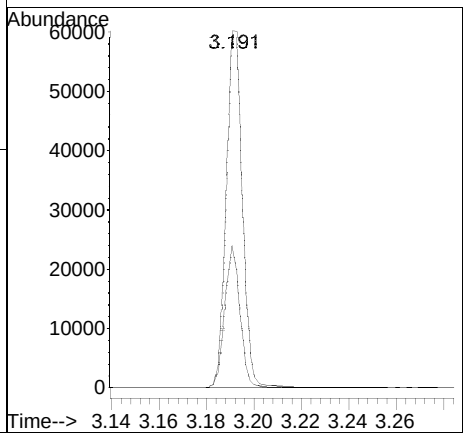


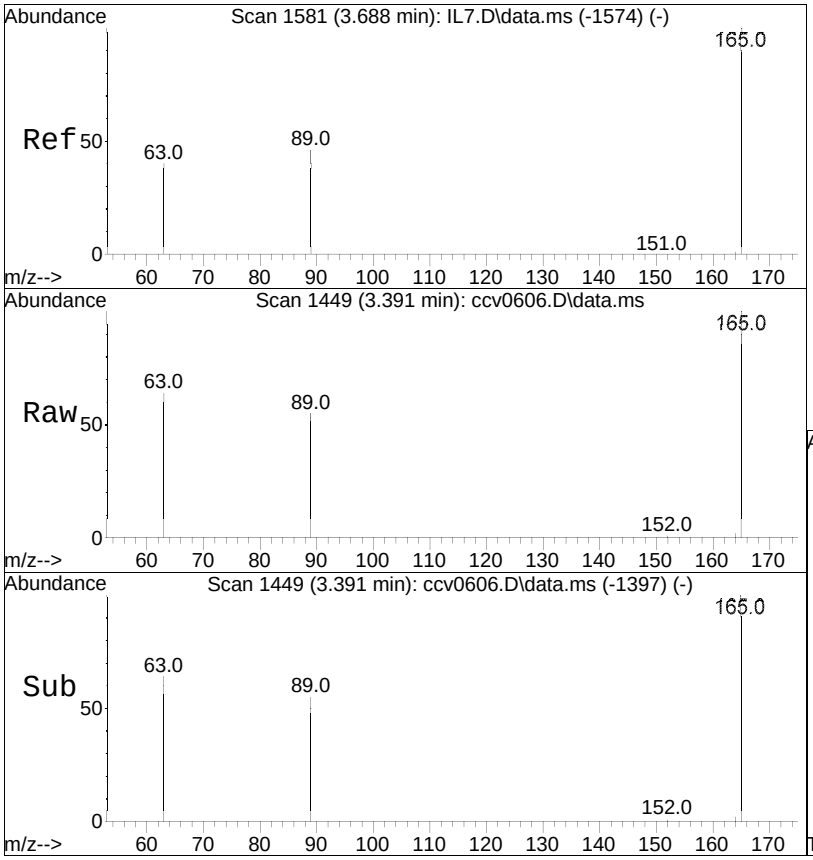


#14
2-Chloronaphthalene
Concen: 988.50 ng/ml
RT: 3.191 min Scan# 1345
Delta R.T. 0.000 min
Lab File: ccv0606.D
Acq: 06 Jun 2024 06:36 am

Tgt Ion:162 Resp: 27637

Ion	Ratio	Lower	Upper
162	100		
127	37.6	29.7	44.5

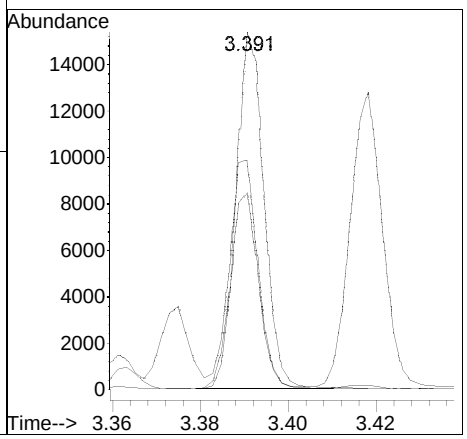


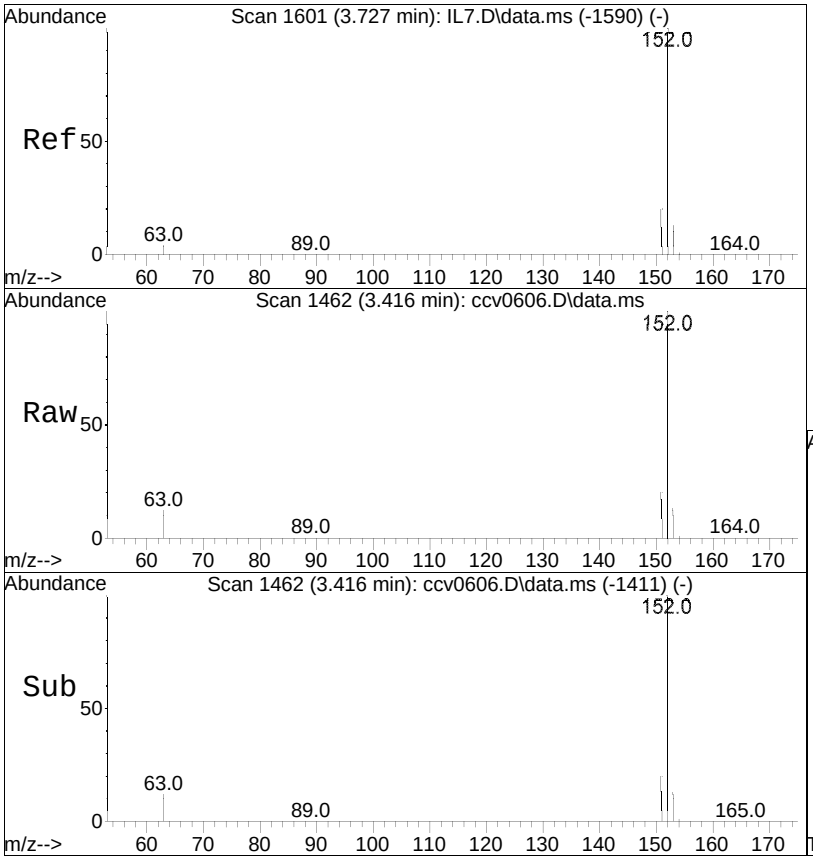


#15
2,6-Dinitrotoluene
Concen: 1079.17 ng/ml
RT: 3.391 min Scan# 1449
Delta R.T. 0.000 min
Lab File: ccv0606.D
Acq: 06 Jun 2024 06:36 am

Tgt Ion:165 Resp: 6813

Ion	Ratio	Lower	Upper
165	100		
89	55.9	52.8	79.2
63	65.8	50.9	76.3

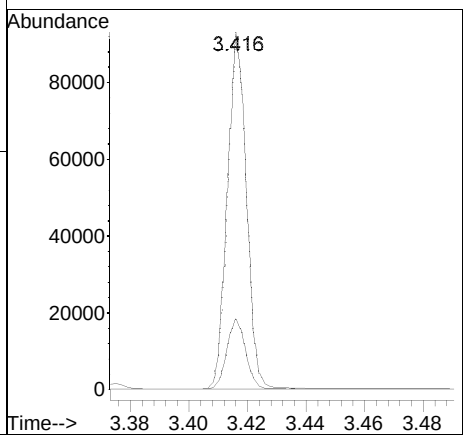


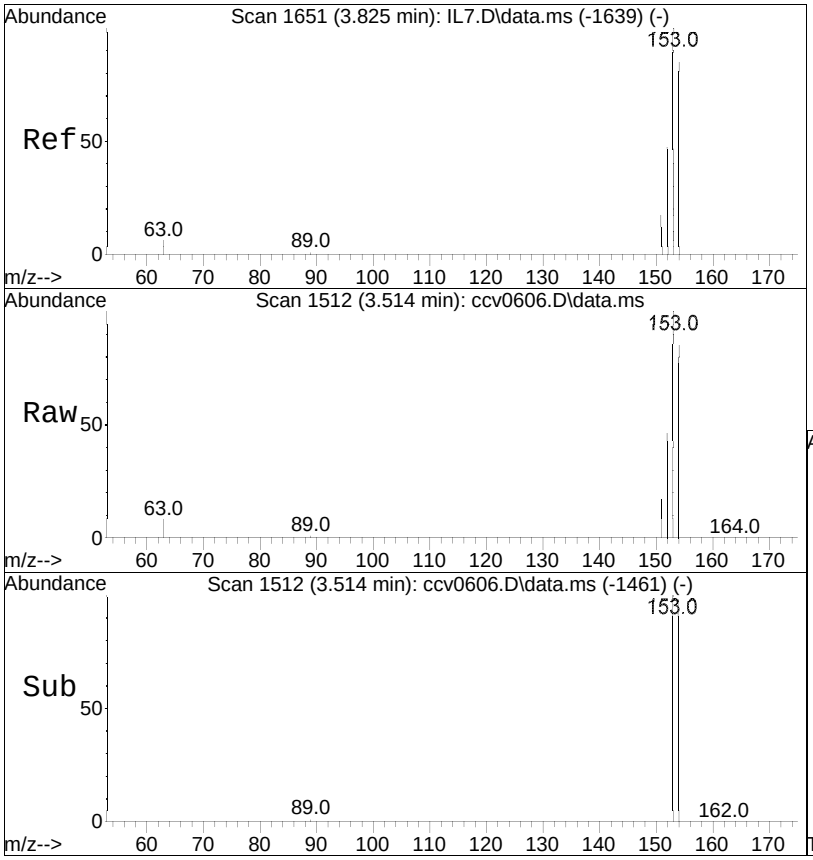


#16
Acenaphthylene
Concen: 993.91 ng/ml
RT: 3.416 min Scan# 1462
Delta R.T. 0.000 min
Lab File: ccv0606.D
Acq: 06 Jun 2024 06:36 am

Tgt Ion:152 Resp: 41295

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.0	24.0

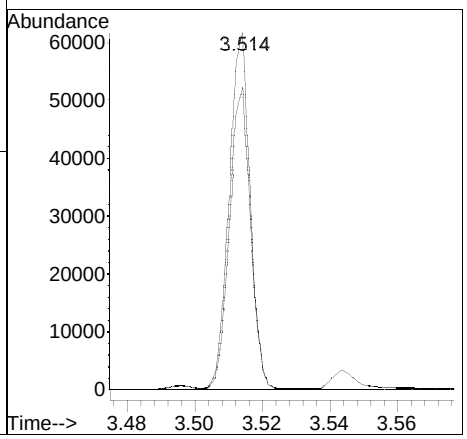


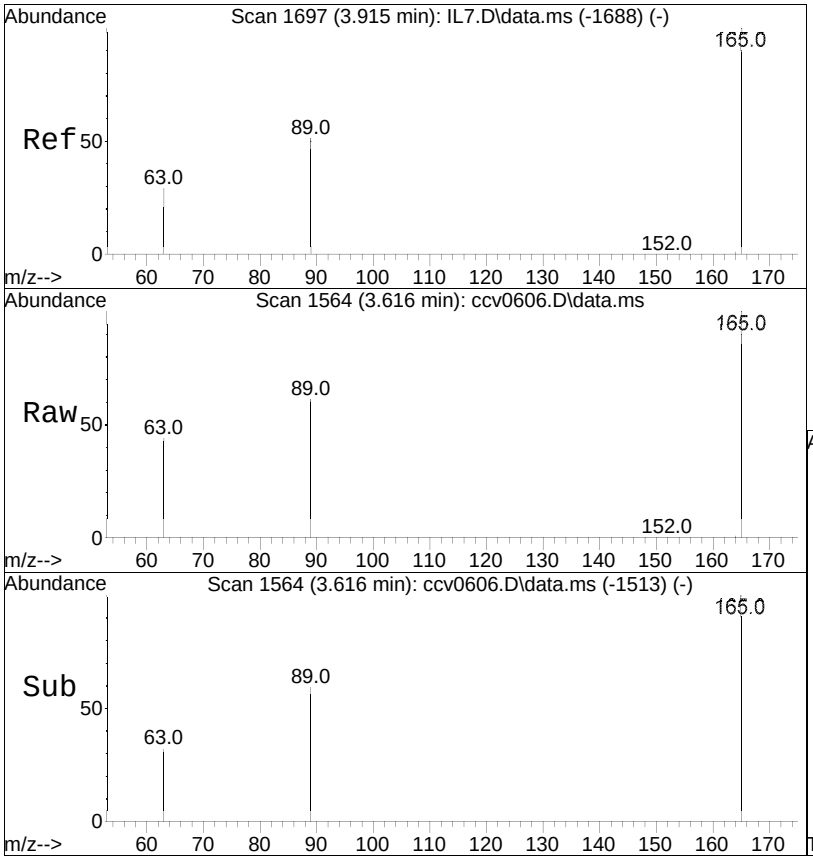


#18
Acenaphthene
Concen: 1062.64 ng/ml
RT: 3.514 min Scan# 1512
Delta R.T. 0.000 min
Lab File: ccv0606.D
Acq: 06 Jun 2024 06:36 am

Tgt Ion:153 Resp: 26191

Ion	Ratio	Lower	Upper
153	100		
154	84.5	66.9	100.3

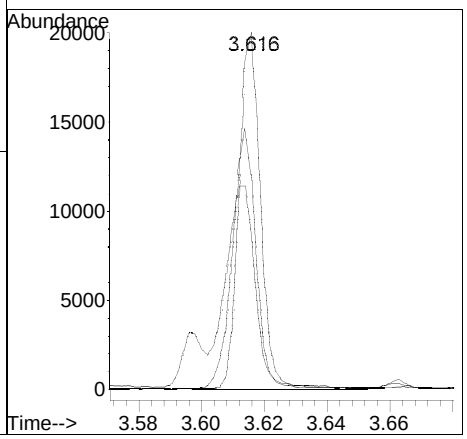


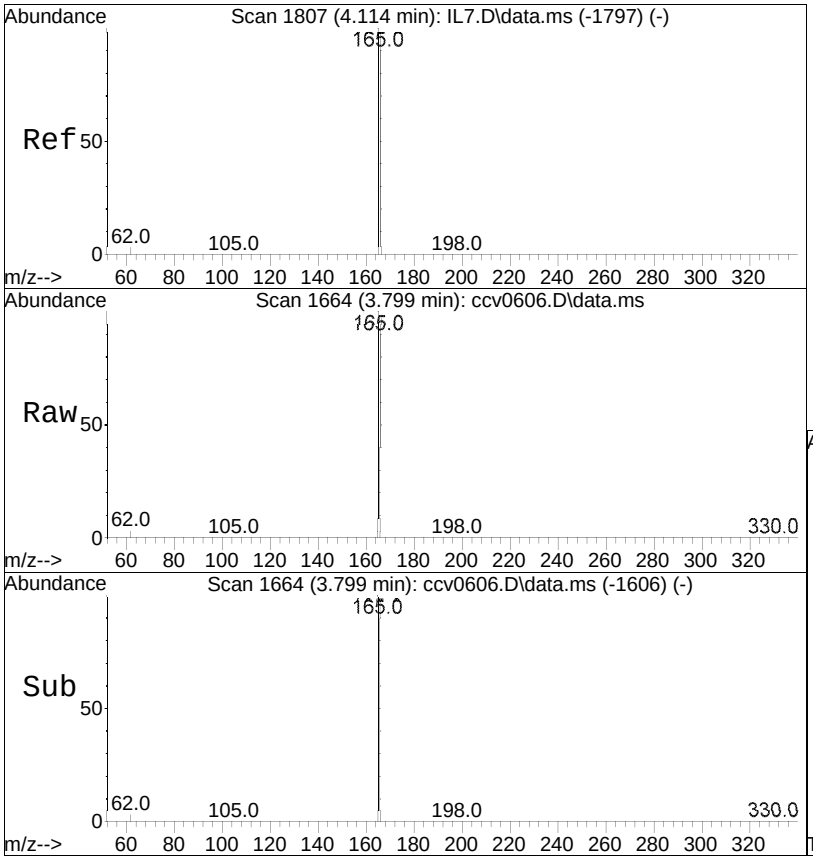


#19
2,4-Dinitrotoluene
Concen: 1281.21 ng/ml
RT: 3.616 min Scan# 1564
Delta R.T. 0.000 min
Lab File: ccv0606.D
Acq: 06 Jun 2024 06:36 am

Tgt Ion:165 Resp: 9415

Ion	Ratio	Lower	Upper
165	100		
89	80.4	80.1	120.1
63	78.0	38.9	58.3#

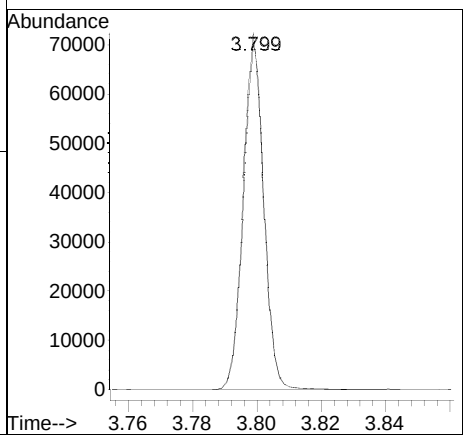


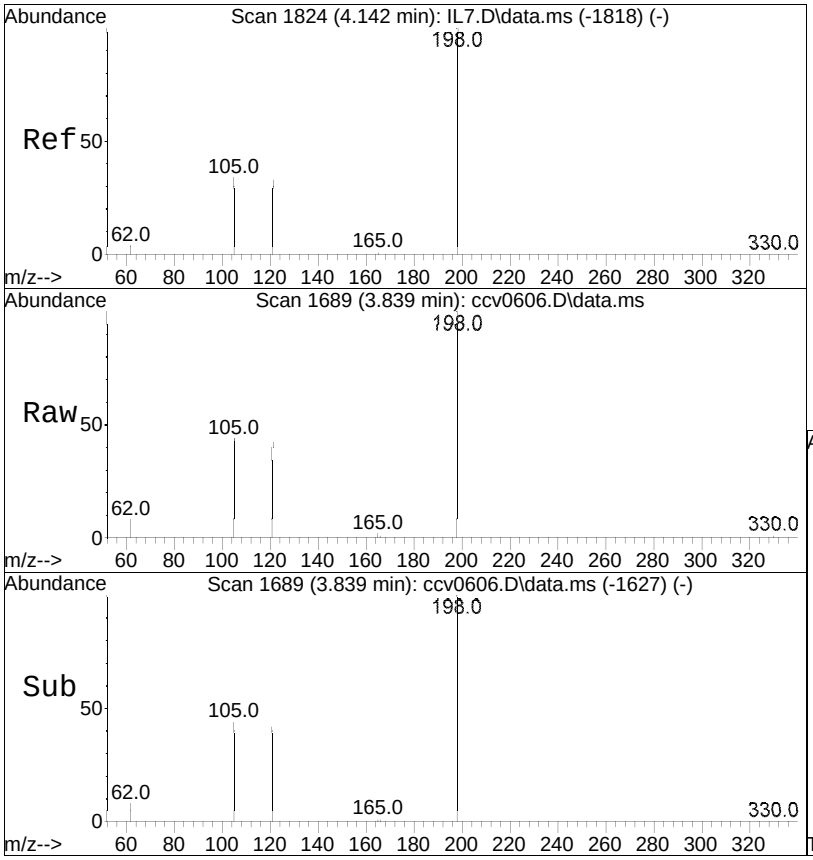


#20
Fluorene
Concen: 1060.01 ng/ml
RT: 3.799 min Scan# 1664
Delta R.T. 0.000 min
Lab File: ccv0606.D
Acq: 06 Jun 2024 06:36 am

Tgt Ion:166 Resp: 31229

Ion	Ratio	Lower	Upper
166	100		
165	101.5	82.9	124.3

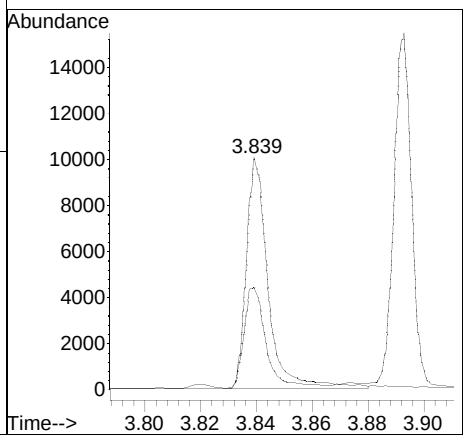


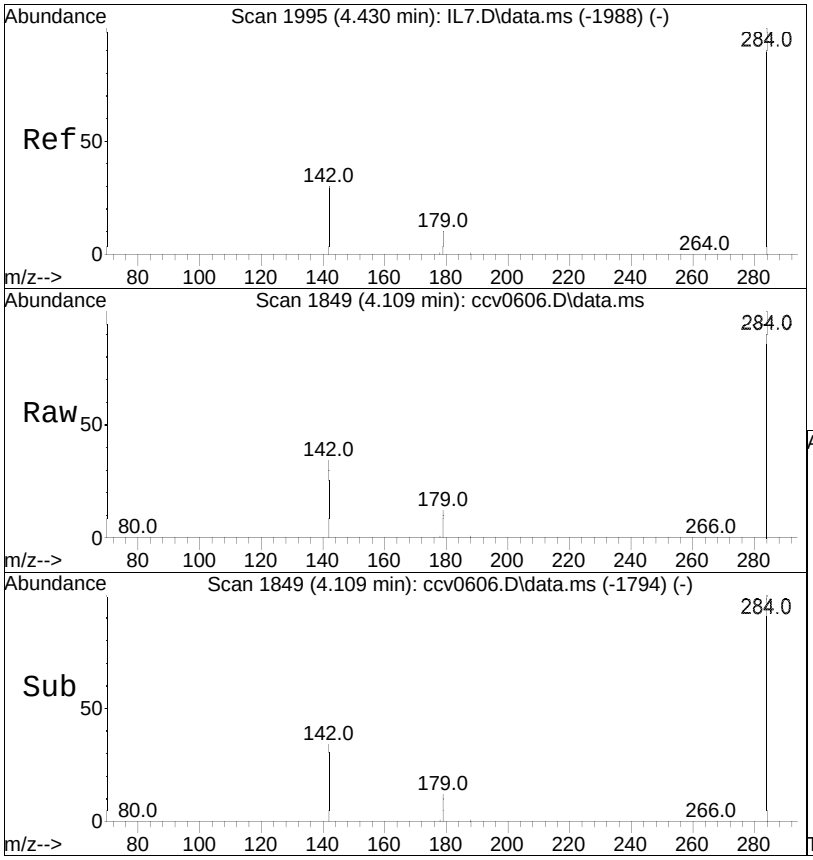


#23
4,6-Dinitro-o-cresol
Concen: 1056.93 ng/ml
RT: 3.839 min Scan# 1689
Delta R.T. 0.000 min
Lab File: ccv0606.D
Acq: 06 Jun 2024 06:36 am

Tgt Ion:198 Resp: 5466

Ion	Ratio	Lower	Upper
198	100		
105	43.4	32.2	48.4

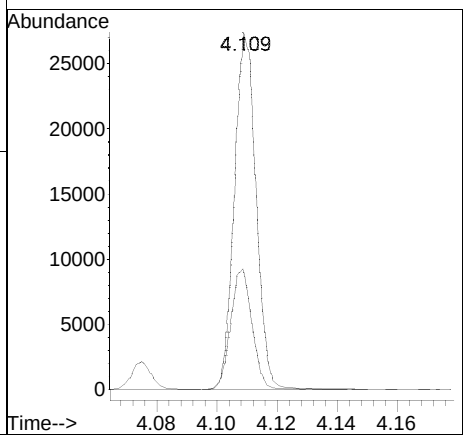


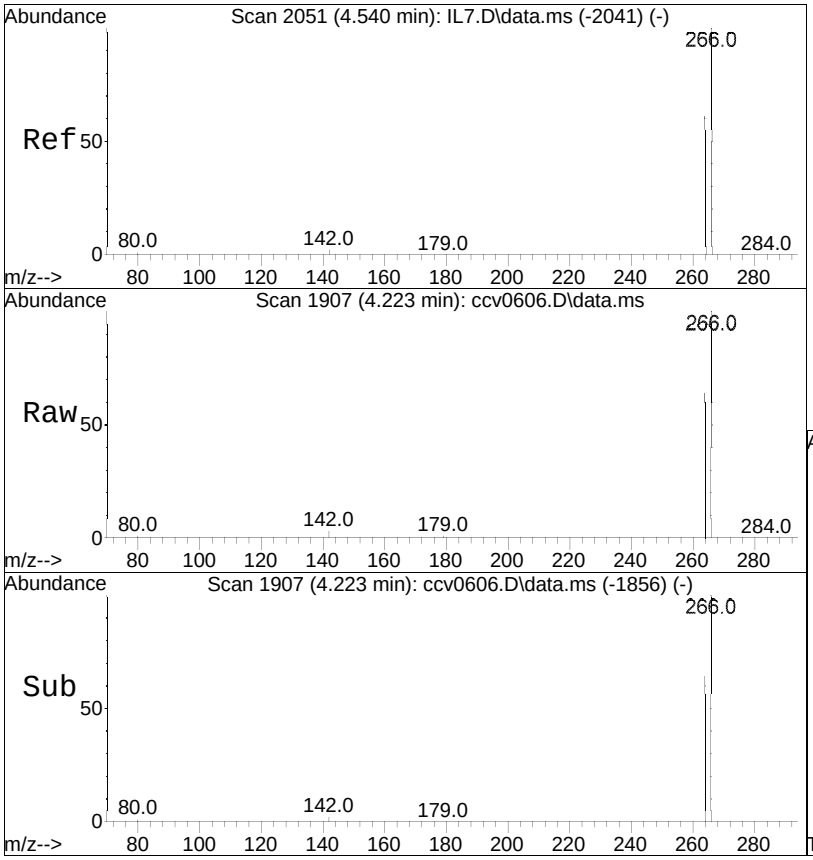


#24
Hexachlorobenzene
Concen: 1169.10 ng/ml
RT: 4.109 min Scan# 1849
Delta R.T. 0.000 min
Lab File: ccv0606.D
Acq: 06 Jun 2024 06:36 am

Tgt Ion:284 Resp: 13526

Ion	Ratio	Lower	Upper
284	100		
142	33.4	26.9	40.3

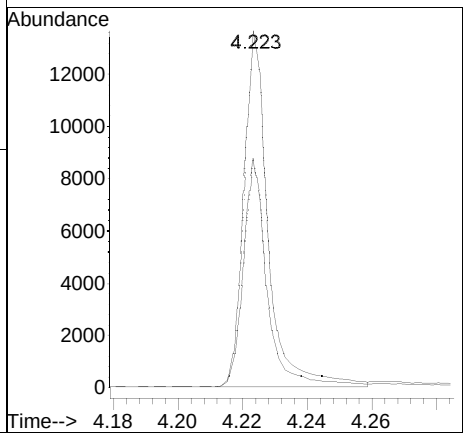


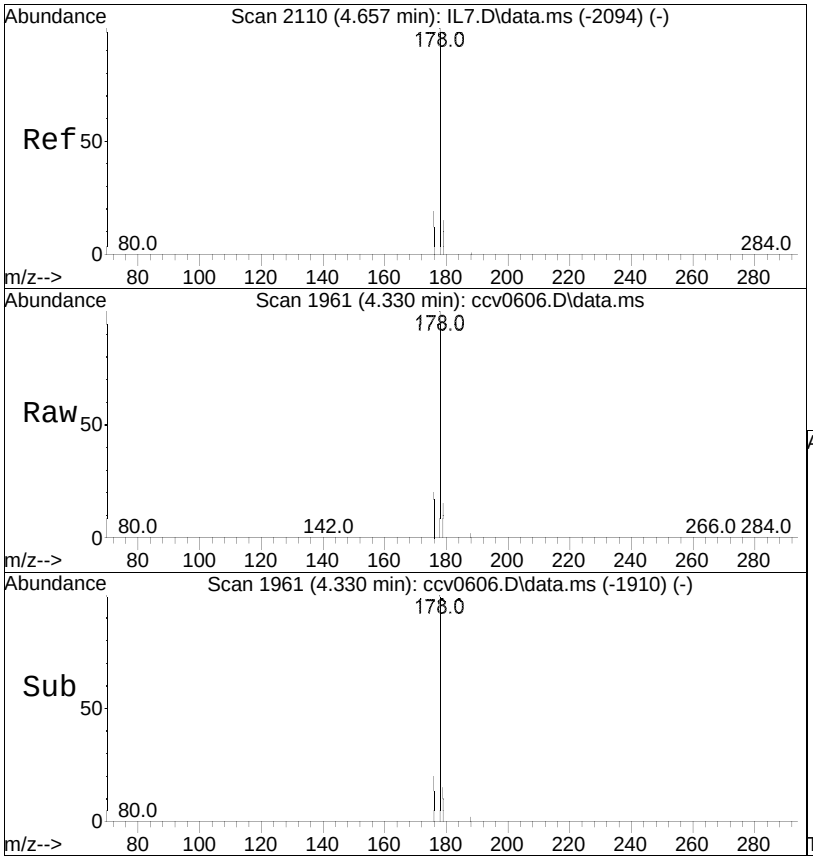


#25
Pentachlorophenol
Concen: 969.31 ng/ml
RT: 4.223 min Scan# 1907
Delta R.T. 0.000 min
Lab File: ccv0606.D
Acq: 06 Jun 2024 06:36 am

Tgt Ion:266 Resp: 7092

Ion	Ratio	Lower	Upper
266	100		
264	62.7	50.7	76.1

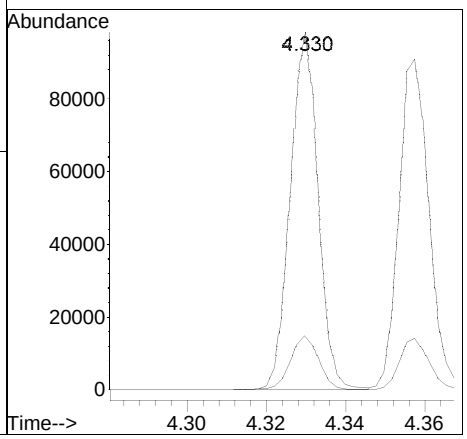


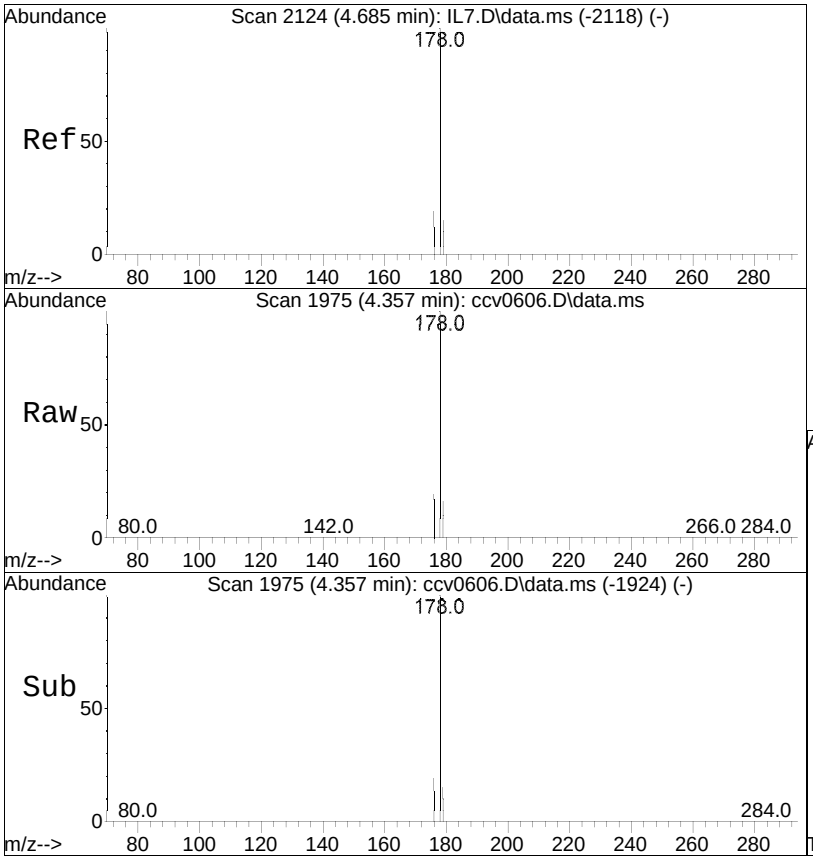


#26
Phenanthrene
Concen: 1052.62 ng/ml
RT: 4.330 min Scan# 1961
Delta R.T. 0.000 min
Lab File: ccv0606.D
Acq: 06 Jun 2024 06:36 am

Tgt Ion:178 Resp: 47852

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.3	18.5

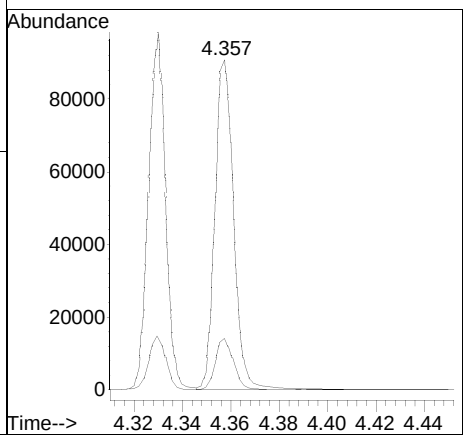


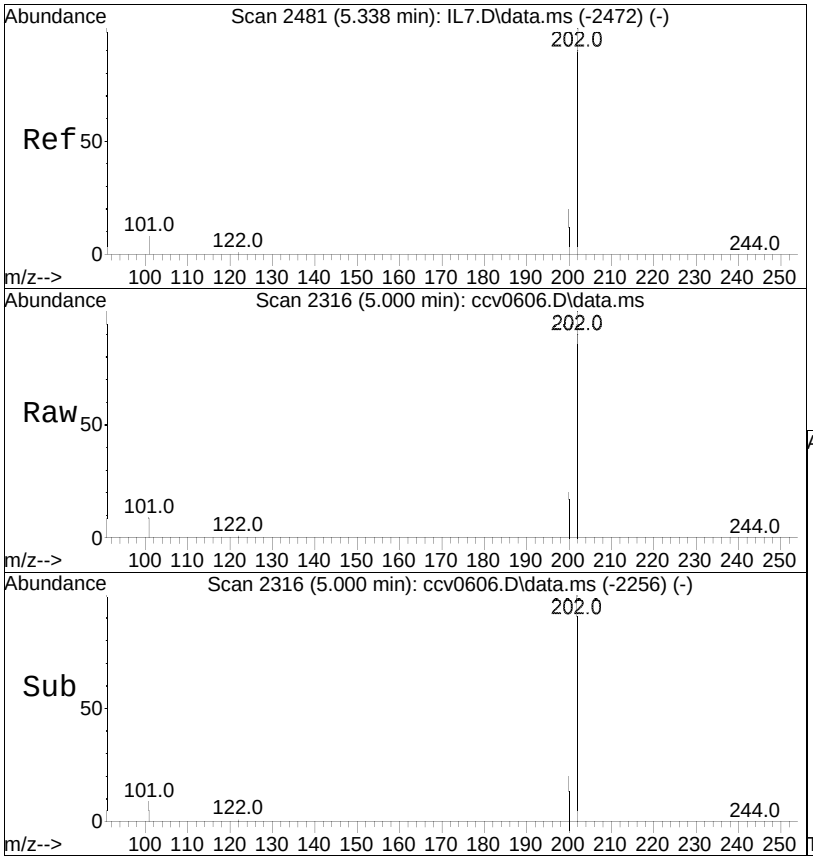


#27
Anthracene
Concen: 1071.37 ng/ml
RT: 4.357 min Scan# 1975
Delta R.T. 0.000 min
Lab File: ccv0606.D
Acq: 06 Jun 2024 06:36 am

Tgt Ion:178 Resp: 48298

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.4

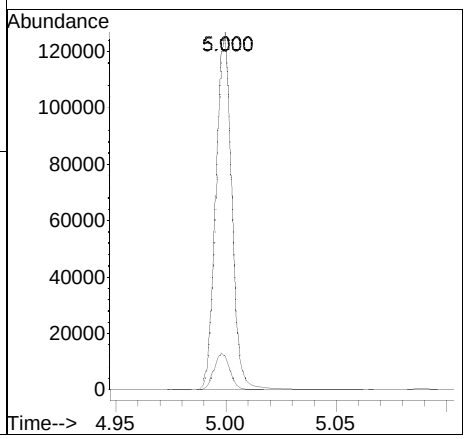


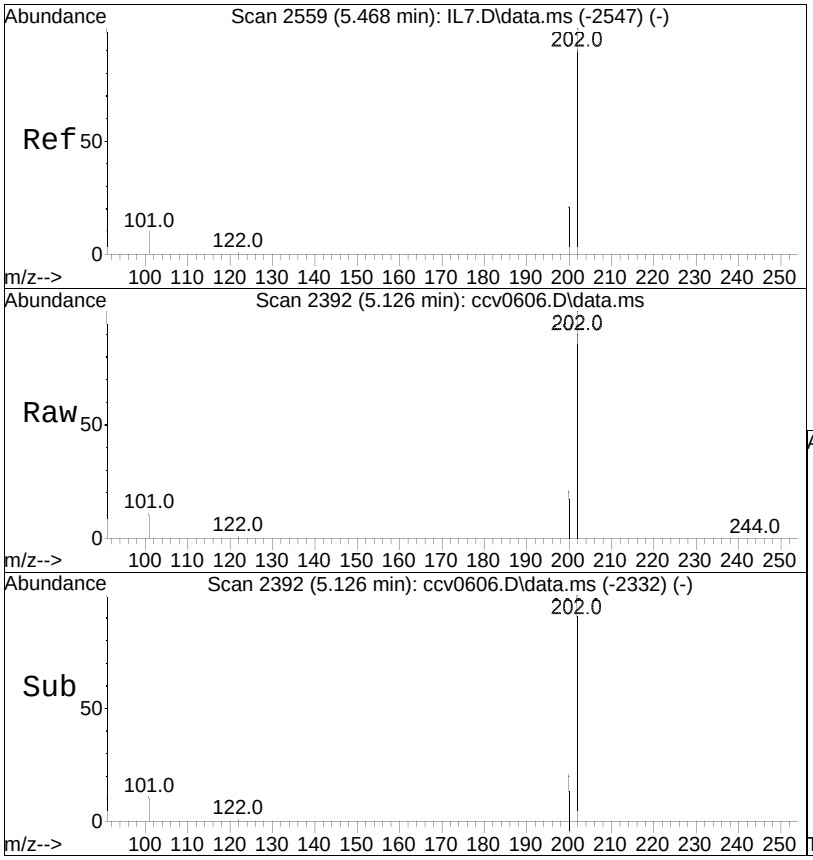


#28
Fluoranthene
Concen: 1041.64 ng/ml
RT: 5.000 min Scan# 2316
Delta R.T. 0.000 min
Lab File: ccv0606.D
Acq: 06 Jun 2024 06:36 am

Tgt Ion:202 Resp: 62409

Ion	Ratio	Lower	Upper
202	100		
101	10.4	8.3	12.5

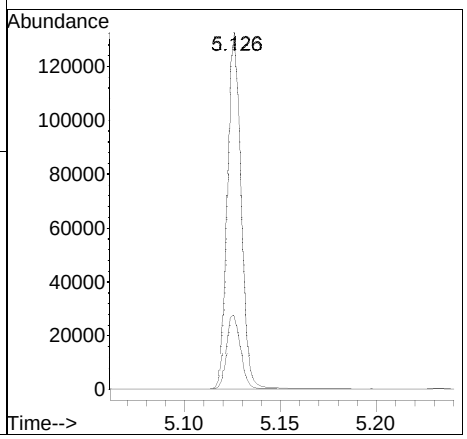


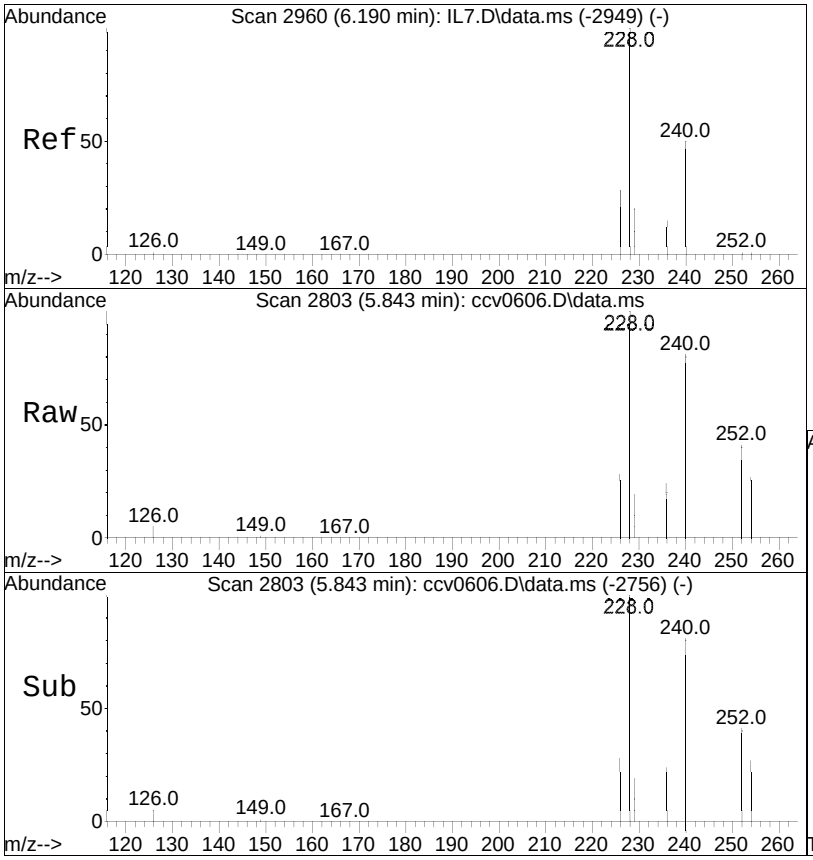


#29
Pyrene
Concen: 1051.19 ng/ml
RT: 5.126 min Scan# 2392
Delta R.T. 0.000 min
Lab File: ccv0606.D
Acq: 06 Jun 2024 06:36 am

Tgt Ion:202 Resp: 64704

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.3	25.9

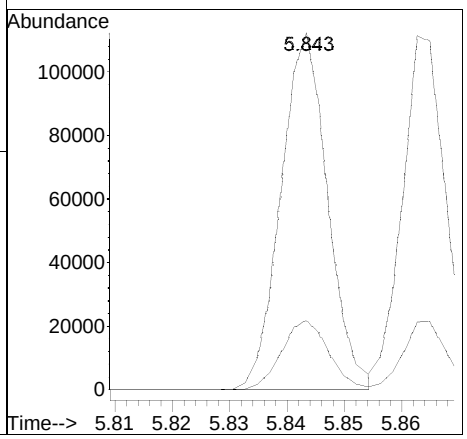


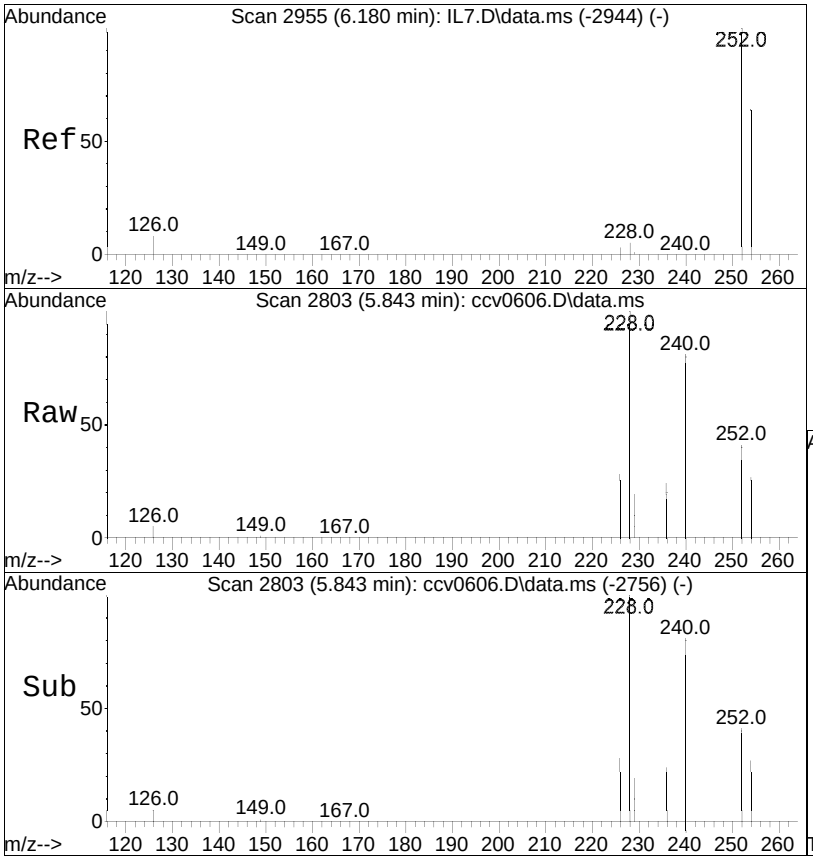


#32
Benzo[a]anthracene
Concen: 1071.83 ng/ml
RT: 5.843 min Scan# 2803
Delta R.T. 0.000 min
Lab File: ccv0606.D
Acq: 06 Jun 2024 06:36 am

Tgt Ion:228 Resp: 63442

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.6	23.4

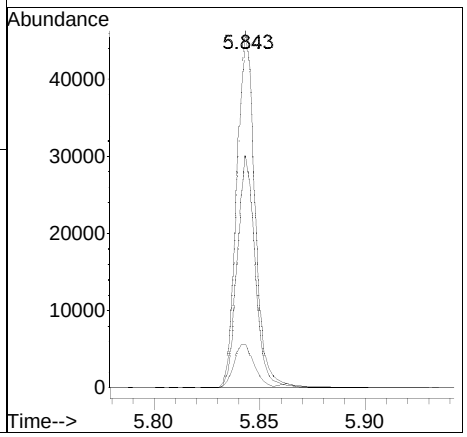


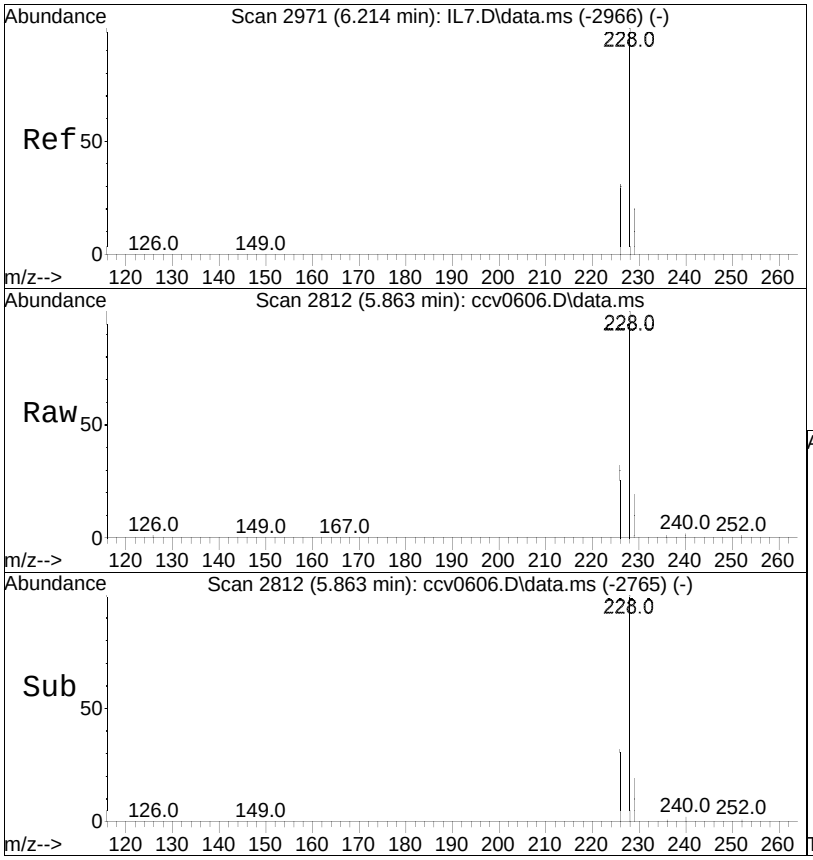


#33
3,3'-Dichlorobenzidine
Concen: 1032.62 ng/ml
RT: 5.843 min Scan# 2803
Delta R.T. 0.000 min
Lab File: ccv0606.D
Acq: 06 Jun 2024 06:36 am

Tgt Ion:252 Resp: 27552

Ion	Ratio	Lower	Upper
252	100		
126	13.5	7.7	11.5#
254	64.7	52.0	78.0

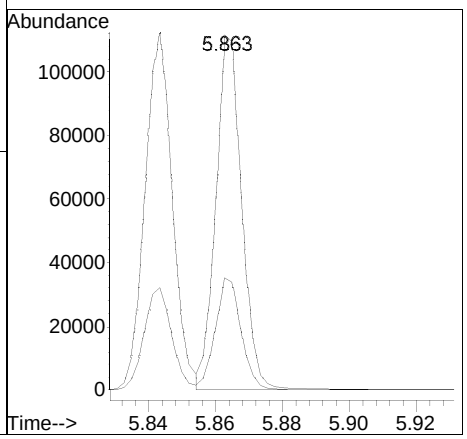


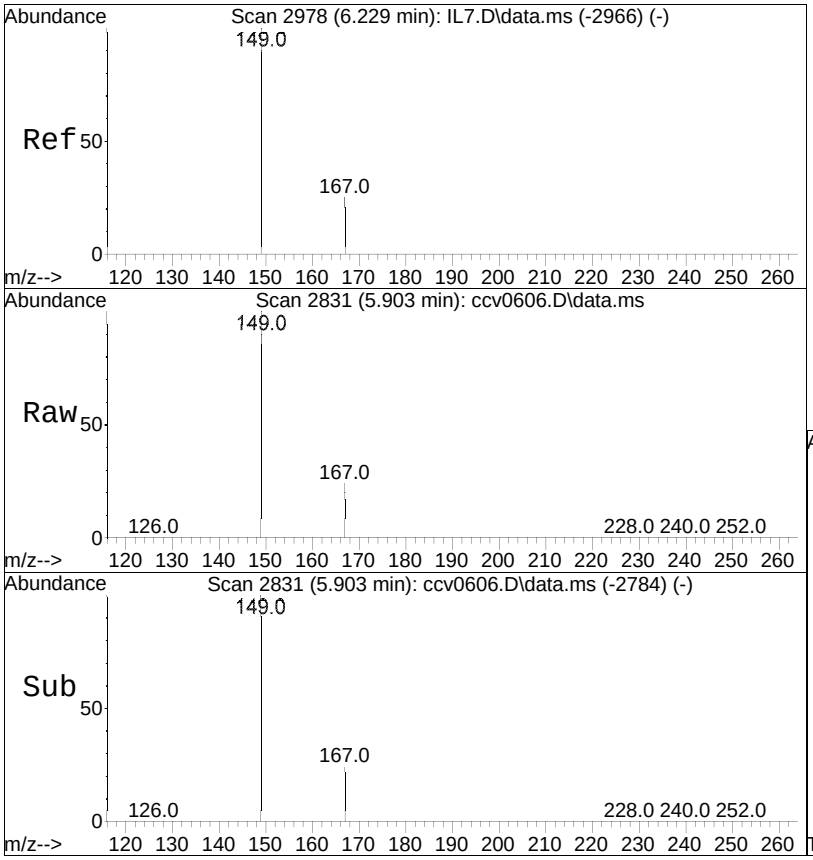


#34
Chrysene
Concen: 1019.90 ng/ml
RT: 5.863 min Scan# 2812
Delta R.T. 0.000 min
Lab File: ccv0606.D
Acq: 06 Jun 2024 06:36 am

Tgt Ion:228 Resp: 59447

Ion	Ratio	Lower	Upper
228	100		
226	31.5	24.5	36.7

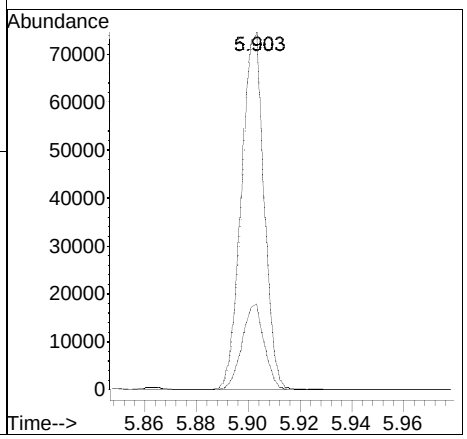


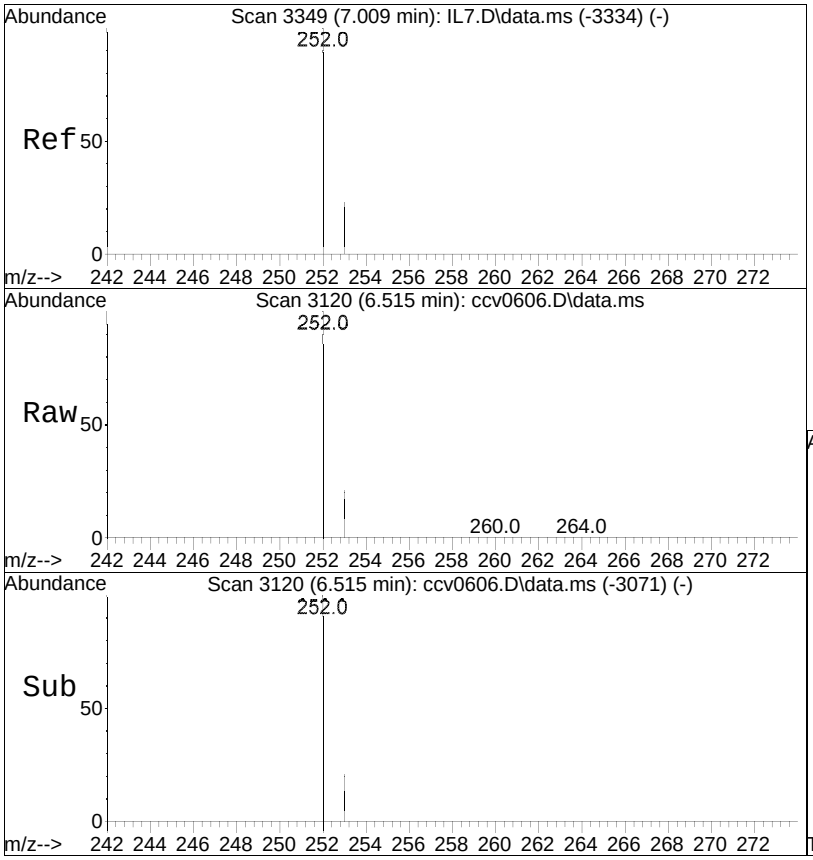


#35
Bis(2-ethylhexyl)phthalate
Concen: 1146.23 ng/ml
RT: 5.903 min Scan# 2831
Delta R.T. 0.000 min
Lab File: ccv0606.D
Acq: 06 Jun 2024 06:36 am

Tgt Ion:149 Resp: 44532

Ion	Ratio	Lower	Upper
149	100		
167	23.5	18.5	27.7

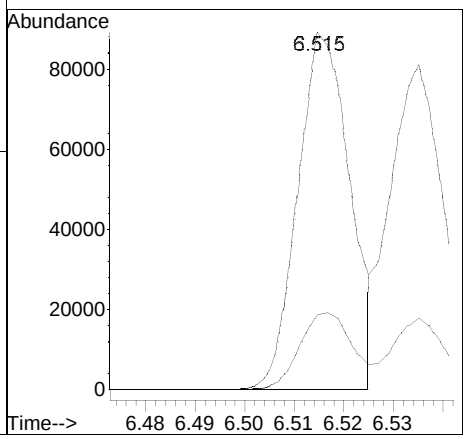


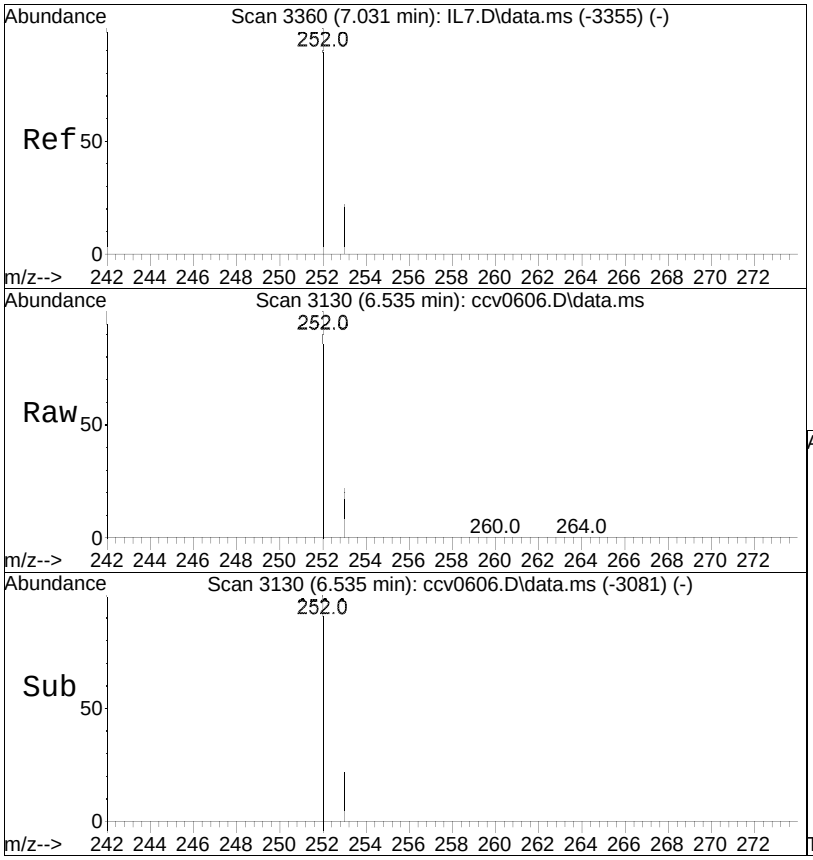


#37
Benzo[b]fluoranthene
Concen: 997.96 ng/ml
RT: 6.515 min Scan# 3120
Delta R.T. 0.000 min
Lab File: ccv0606.D
Acq: 06 Jun 2024 06:36 am

Tgt Ion:252 Resp: 65269

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.3	25.9

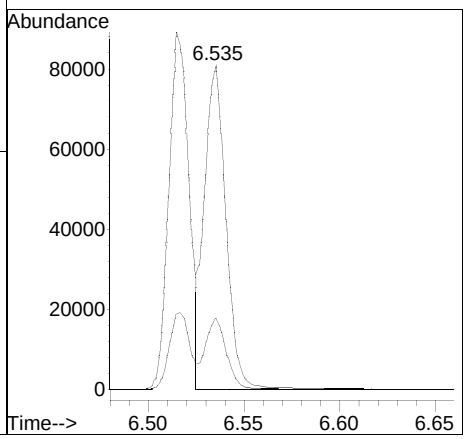


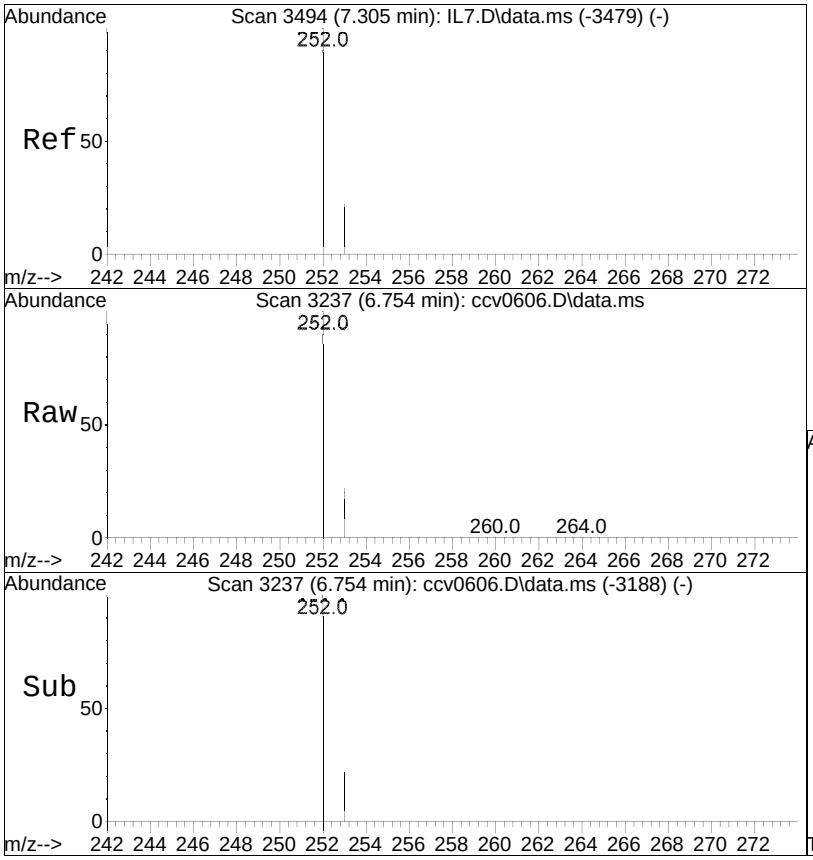


#38
Benzo[k]fluoranthene
Concen: 1013.18 ng/ml
RT: 6.535 min Scan# 3130
Delta R.T. 0.000 min
Lab File: ccv0606.D
Acq: 06 Jun 2024 06:36 am

Tgt Ion:252 Resp: 62922

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.2

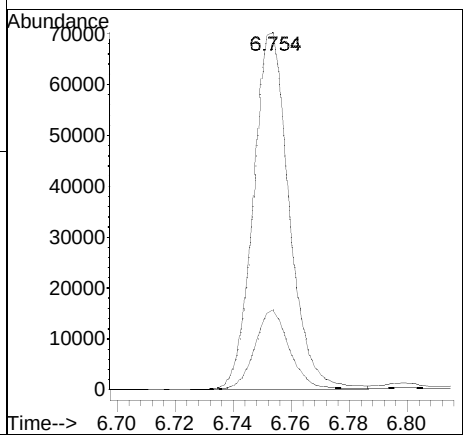


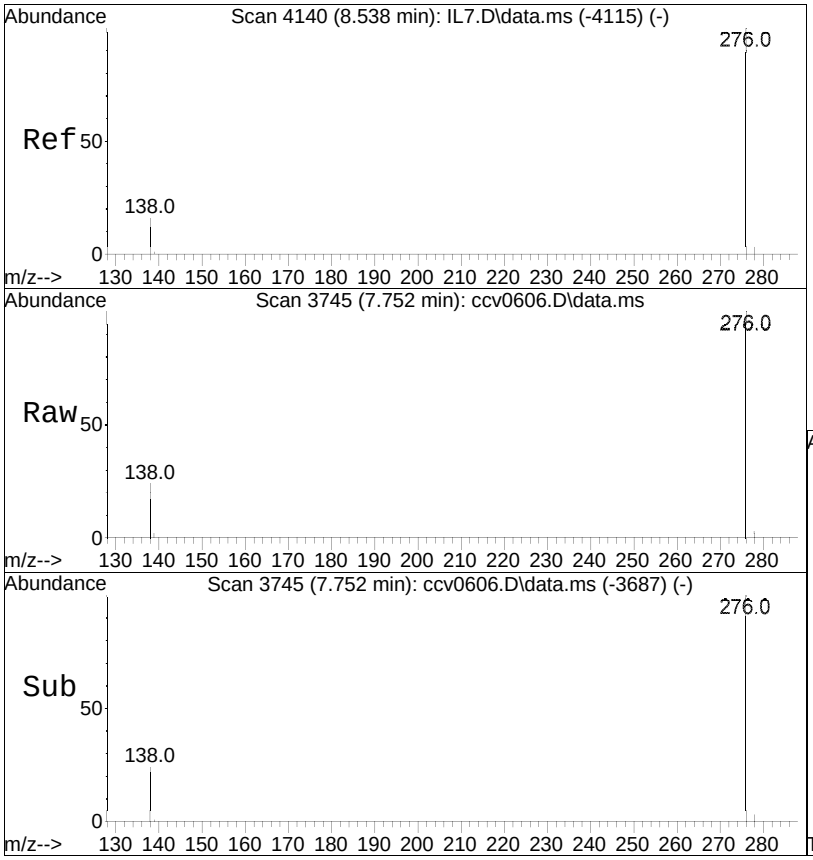


#39
Benzo[a]pyrene
Concen: 1034.27 ng/ml
RT: 6.754 min Scan# 3237
Delta R.T. 0.000 min
Lab File: ccv0606.D
Acq: 06 Jun 2024 06:36 am

Tgt Ion:252 Resp: 59541

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0

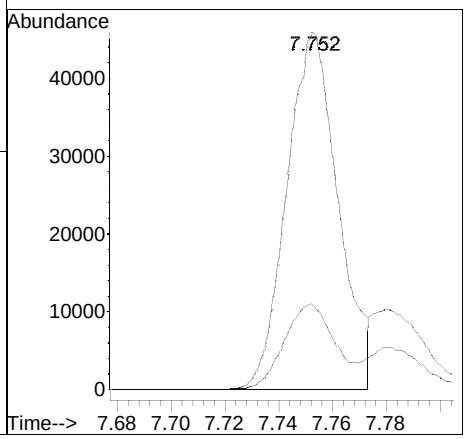


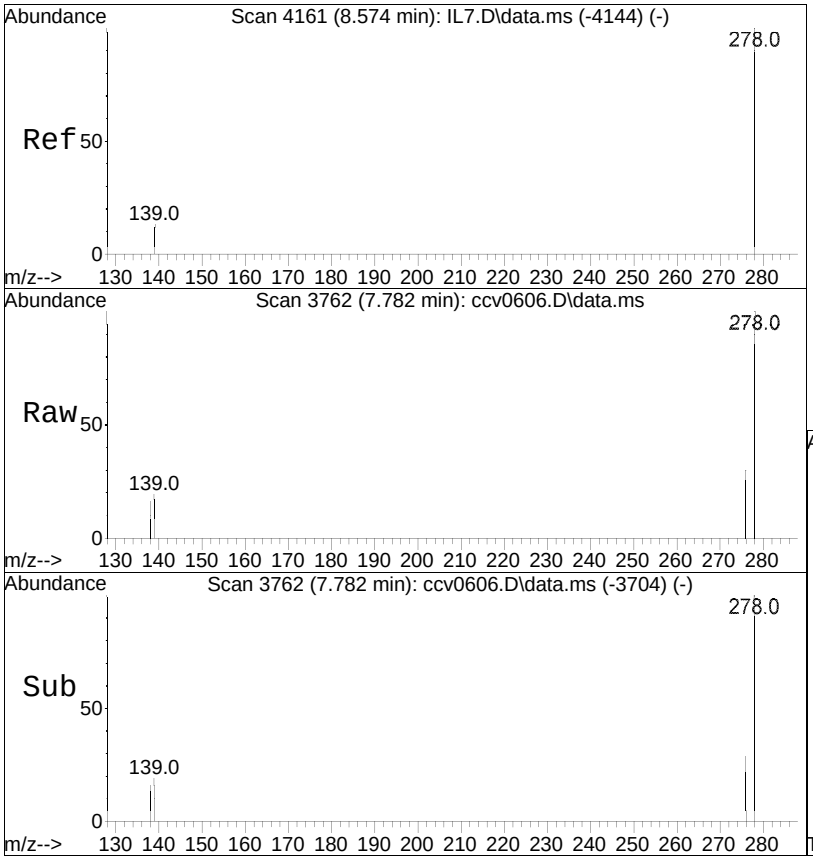


#40
Indeno[1,2,3-cd]pyrene
Concen: 963.58 ng/ml
RT: 7.752 min Scan# 3745
Delta R.T. 0.000 min
Lab File: ccv0606.D
Acq: 06 Jun 2024 06:36 am

Tgt Ion:276 Resp: 60288

Ion	Ratio	Lower	Upper
276	100		
138	24.0	14.8	22.2#

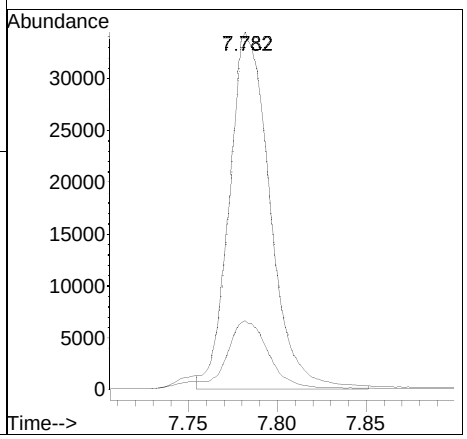


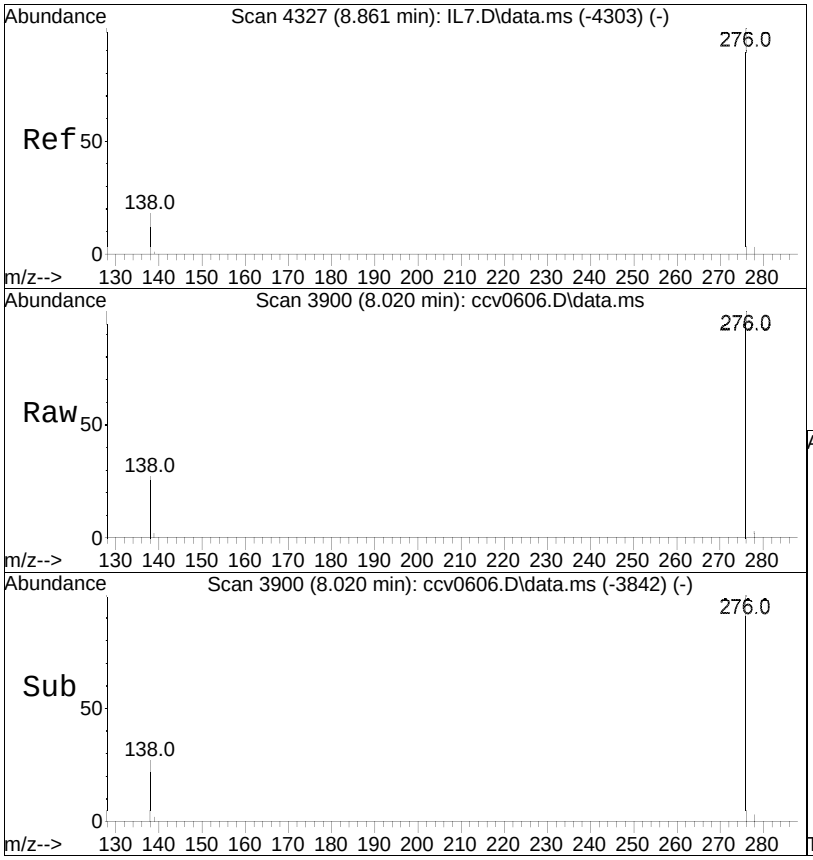


#41
Dibenzo[a,h]anthracene
Concen: 939.48 ng/ml M6
RT: 7.782 min Scan# 3762
Delta R.T. 0.000 min
Lab File: ccv0606.D
Acq: 06 Jun 2024 06:36 am

Tgt Ion:278 Resp: 54689

Ion	Ratio	Lower	Upper
278	100		
139	19.1	12.2	18.4#

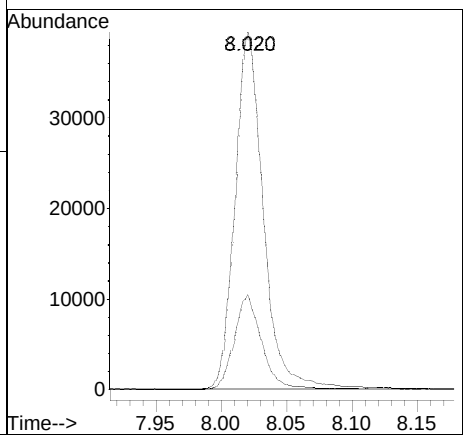




#42
Benzo[g,h,i]perylene
Concen: 915.98 ng/ml
RT: 8.020 min Scan# 3900
Delta R.T. 0.000 min
Lab File: ccv0606.D
Acq: 06 Jun 2024 06:36 am

Tgt Ion:276 Resp: 58295

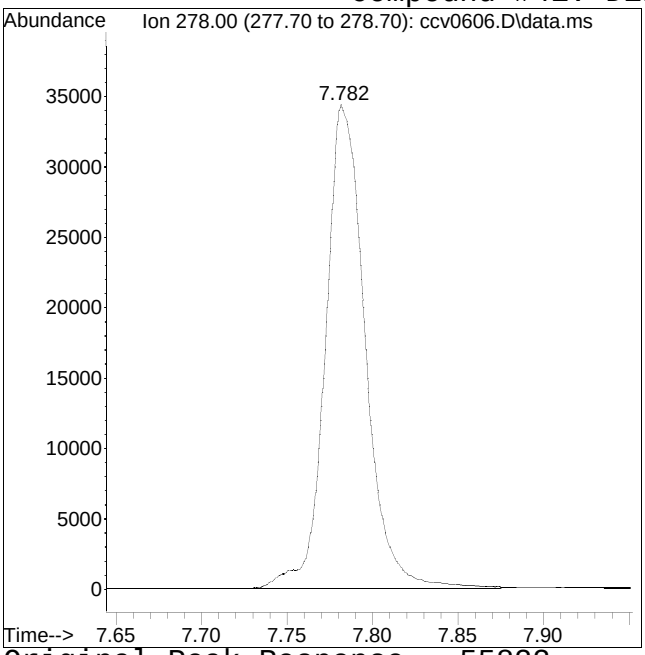
Ion	Ratio	Lower	Upper
276	100		
138	25.7	16.8	25.2#



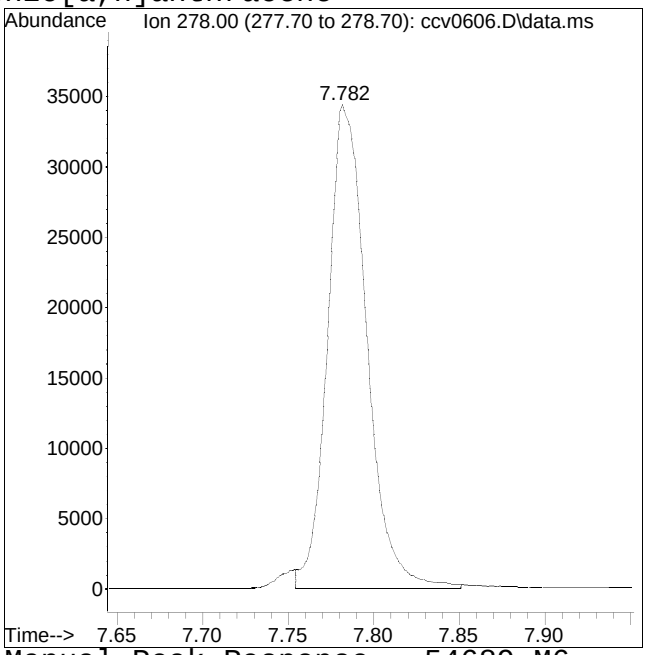
Manual Integration Report

Data Path : I:\8270SIM\sv119\240606LVIQ
Data File : ccv0606.D
Date Inj'd : 6/6/2024 6:36 am
Sample : WG1930543-3,32,, ICV 10475
Method : SIM-LVI_231207n_sv119.M
Operator : sv119:ah
Instrument : SV119
Quant Date : 6/6/2024 6:52 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 55822



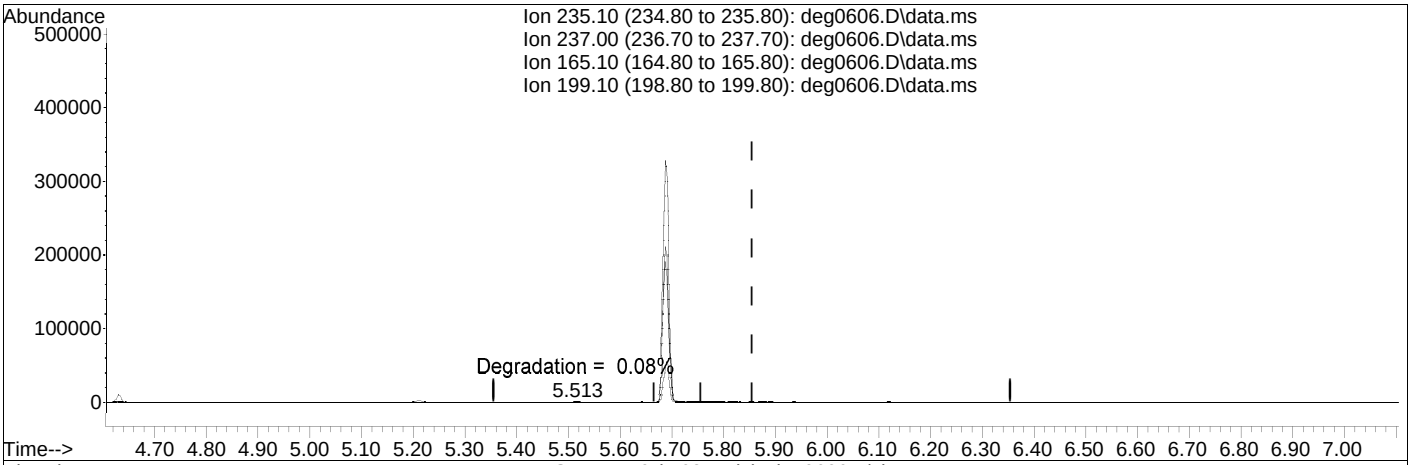
Manual Peak Response = 54689 M6

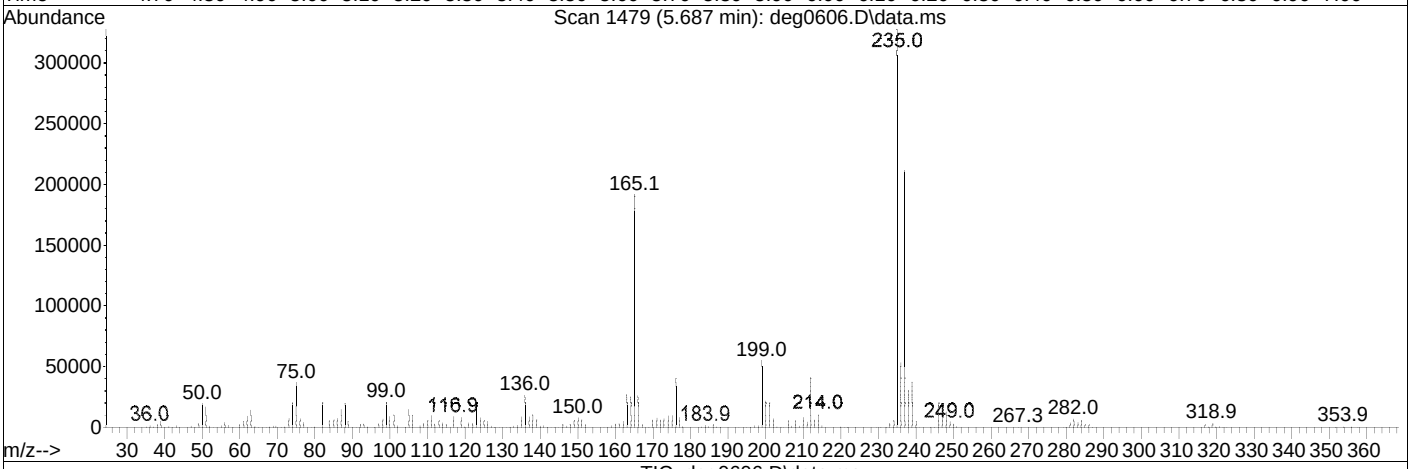
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\240606LVI\
Data File : deg0606.D
Acq On : 06 Jun 2024 06:17 am
Operator : sv119:ah
Sample : WG1930543-2,32,,dftppsv119 lot# 10761
Misc : WG1930543,,ical20642
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 06 06:33:40 2024
Quant Method : I:\8270SIM\sv119\240606LVI\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 26 08:43:01 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg0606.D\data.ms

(6) ddt (T)

5.687min (-0.168) 39.02

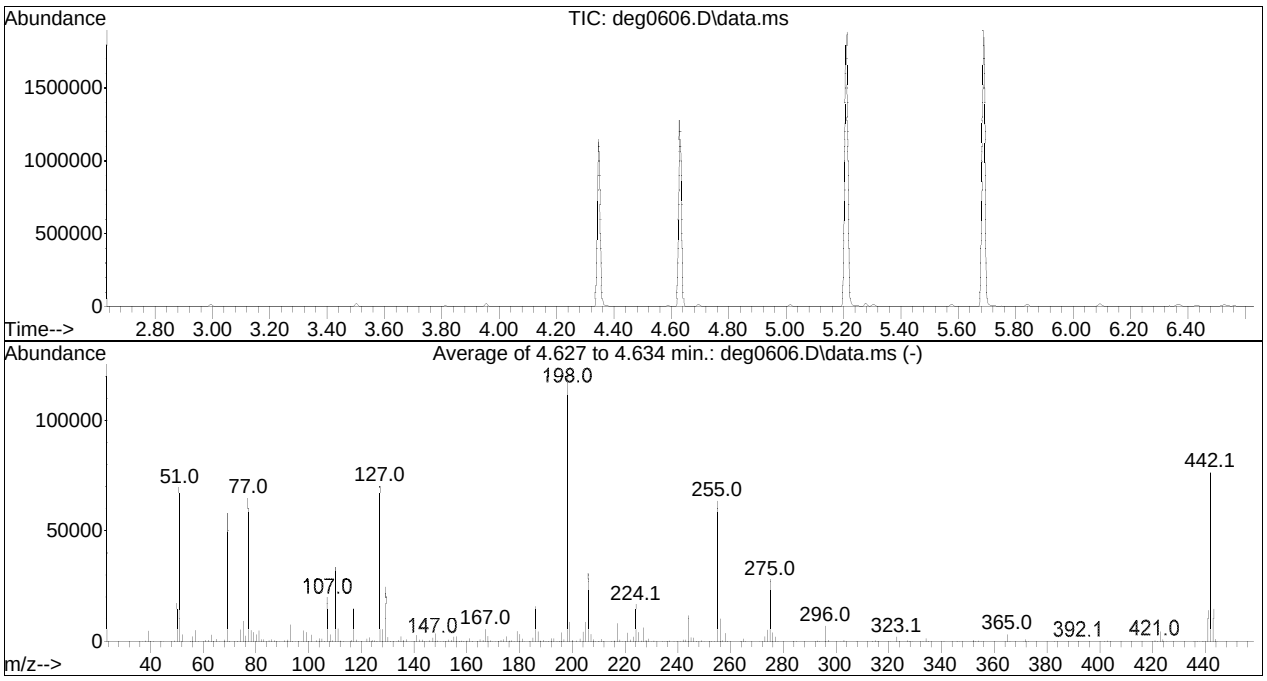
response 237885

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	64.91
165.10	53.30	57.43
199.10	17.10	16.38

Data Path : I:\8270SIM\sv119\240606LVI\
Data File : deg0606.D
Acq On : 06 Jun 2024 06:17 am
Operator : sv119:ah
Sample : WG1930543-1,32,,dftppsv119 lot# 10761
Misc : WG1930543,,ical20642
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv119\240606LVI\SIM-LVI_231207n_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Jun 06 06:54:43 2024



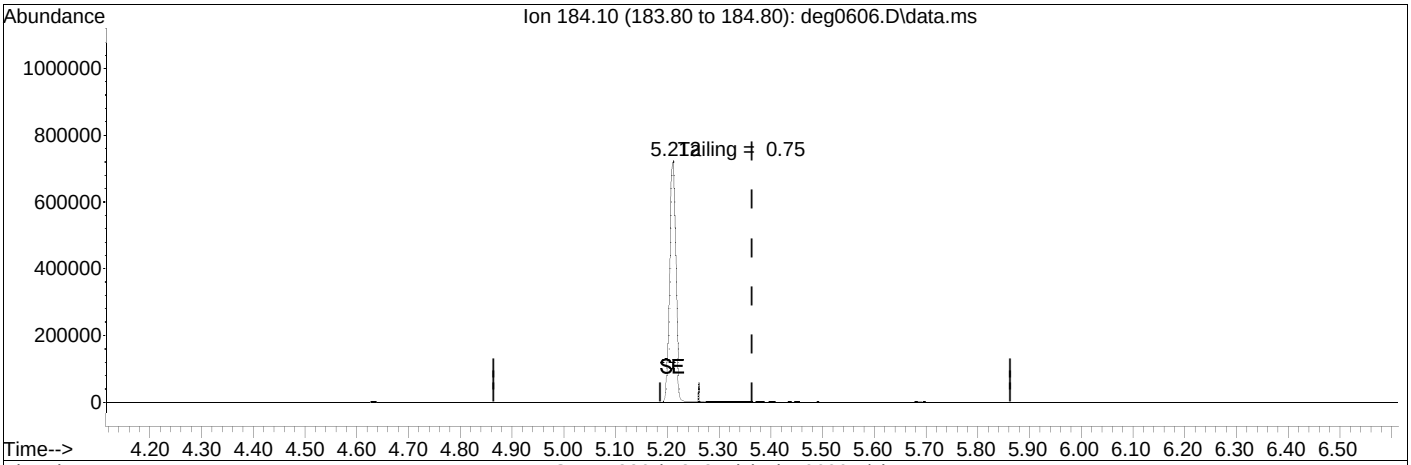
Spectrum Information: Average of 4.627 to 4.634 min.

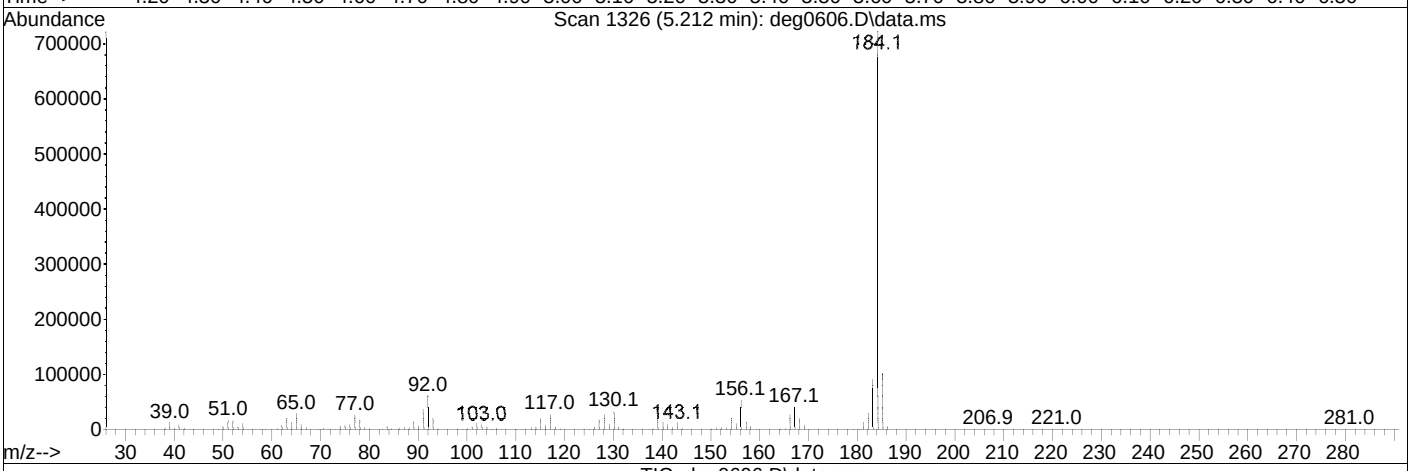
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	58.3	69650	PASS
68	69	0.00	2	1.6	944	PASS
69	69	100	100	100.0	57661	PASS
70	69	0.00	2	0.6	364	PASS
127	198	10	80	58.8	70248	PASS
197	198	0.00	2	1.0	1168	PASS
198	198	100	100	100.0	119387	PASS
199	198	5	9	7.1	8482	PASS
275	198	10	60	23.3	27837	PASS
365	198	1	100	2.7	3267	PASS
441	442	0.01	24	18.0	13832	PASS
442	198	50	100	64.3	76707	PASS
443	442	15	24	18.8	14389	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\240606LVI\
Data File : deg0606.D
Acq On : 06 Jun 2024 06:17 am
Operator : sv119:ah
Sample : WG1930543-4,32,,dftppsv119 lot# 10761
Misc : WG1930543,,ical20642
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 06 06:33:40 2024
Quant Method : I:\8270SIM\sv119\240606LVI\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 26 08:43:01 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg0606.D\data.ms

(3) benzidine (T)

5.212min (-0.152) 54.84

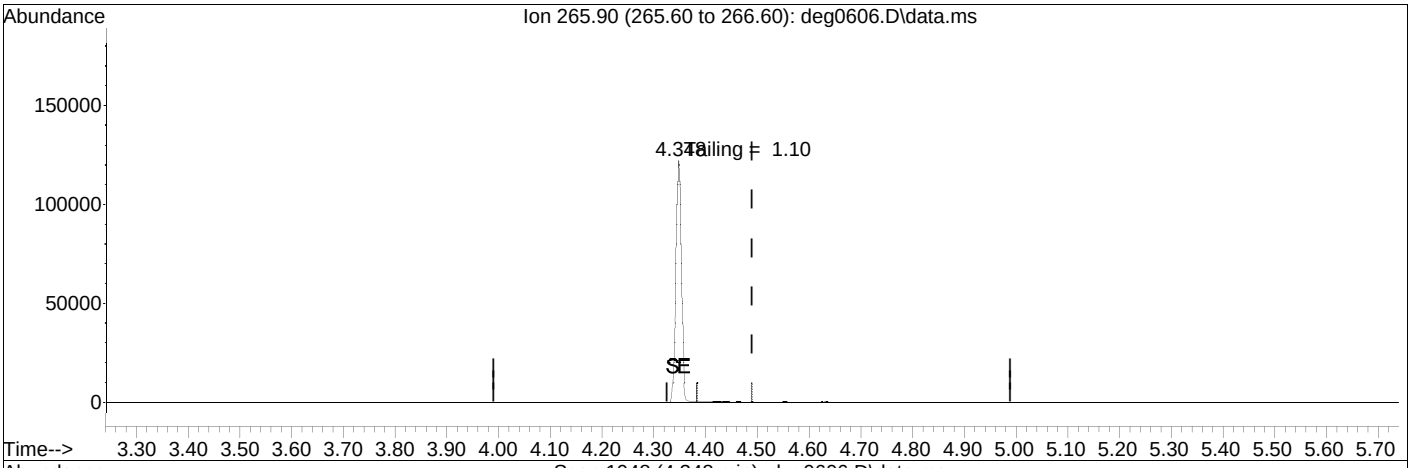
response 558236

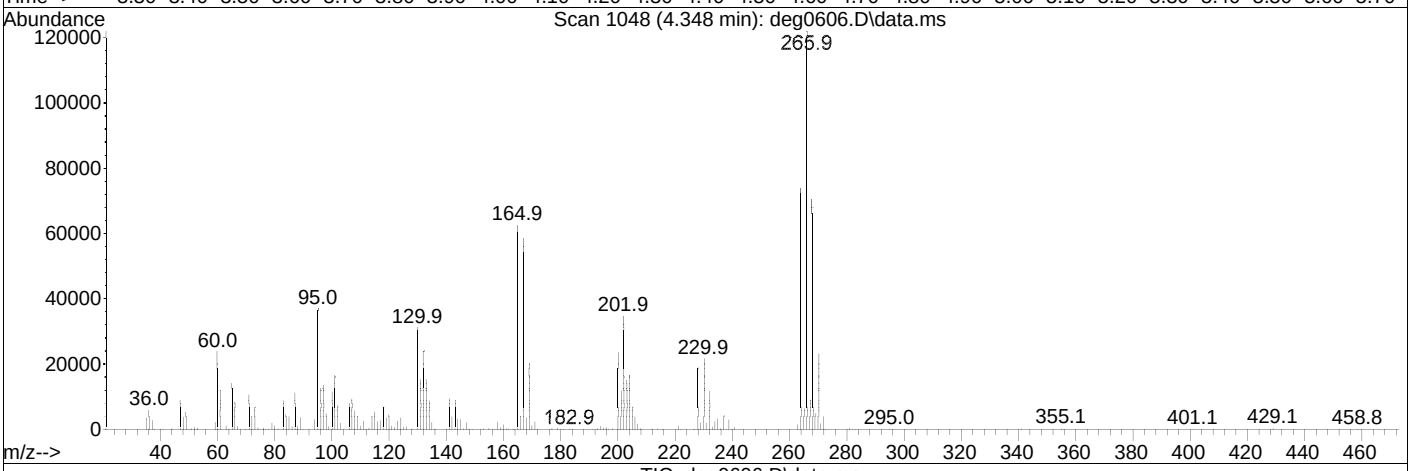
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\240606LVI\
Data File : deg0606.D
Acq On : 06 Jun 2024 06:17 am
Operator : sv119:ah
Sample : WG1930543-5,32,,dftppsv119 lot# 10761
Misc : WG1930543,,ical20642
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 06 06:33:40 2024
Quant Method : I:\8270SIM\sv119\240606LVI\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 26 08:43:01 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg0606.D\data.ms

(1) pentachlorophenol (T)

4.348min (-0.142) 41.44

response 87033

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 929068-1.D
Acq On : 04 Jun 2024 10:30 am
Operator : sv119:rp
Sample : WG1929068-1,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 14:50:53 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240604LVI\ccv0604.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.911	152	53650	4000.000	ng/ml	0.00
Standard Area 1 = 56492			Recovery = 94.97%			
8) Naphthalene-d8	2.552	136	179237	4000.000	ng/ml	0.00
Standard Area 1 = 186100			Recovery = 96.31%			
17) Acenaphthene-d10	3.500	164	94902	4000.000	ng/ml	0.00
Standard Area 1 = 98337			Recovery = 96.51%			
22) Phenanthrene-d10	4.318	188	202030	4000.000	ng/ml	0.00
Standard Area 1 = 215749			Recovery = 93.64%			
31) Chrysene-d12	5.839	240	186098	4000.000	ng/ml	-0.01
Standard Area 1 = 188074			Recovery = 98.95%			
36) Perylene-d12	6.784	264	189320	4000.000	ng/ml	-0.01
Standard Area 1 = 198758			Recovery = 95.25%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.345	112	48041	3273.848	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 65.48%			
3) Phenol-d6	1.744	99	48680	2767.509	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 55.35%			
7) Nitrobenzene-d5	2.185	82	31346	2349.315	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 93.97%			
13) 2-Fluorobiphenyl	3.139	172	74323	1856.657	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 74.27%			
21) 2,4,6-Tribromophenol	3.937	330	29803	5696.184	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 113.92%#			
30) 4-Terphenyl-d14	5.232	244	84086	1697.787	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 67.91%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	2.562	128	863M6	20.164	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.	d	
11) 2-Methylnaphthalene	2.933	142	207	6.541	ng/ml	92
14) 2-Chloronaphthalene	3.197	162	83	2.462	ng/ml#	73
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	3.518	153	91M6	3.102	ng/ml	
20) Fluorene	3.802	166	184	5.247	ng/ml	100
24) Hexachlorobenzene	4.113	284	31	2.374	ng/ml#	57
25) Pentachlorophenol	0.000		0	N.D.	d	

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 929068-1.D
Acq On : 04 Jun 2024 10:30 am
Operator : sv119:rp
Sample : WG1929068-1,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 14:50:53 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240604LVI\ccv0604.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.330	178	415M1	8.087	ng/ml	
27) Anthracene	4.360	178	179M6	3.517	ng/ml	
28) Fluoranthene	4.998	202	317	4.687	ng/ml#	81
29) Pyrene	5.126	202	258M7	3.713	ng/ml	
32) Benzo[a]anthracene	5.839	228	772	1.778	ng/ml#	59
34) Chrysene	5.854	228	151	2.459	ng/ml#	84
37) Benzo[b]fluoranthene	6.503	252	168	2.540	ng/ml#	88
38) Benzo[k]fluoranthene	6.521	252	135M1	2.150	ng/ml	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

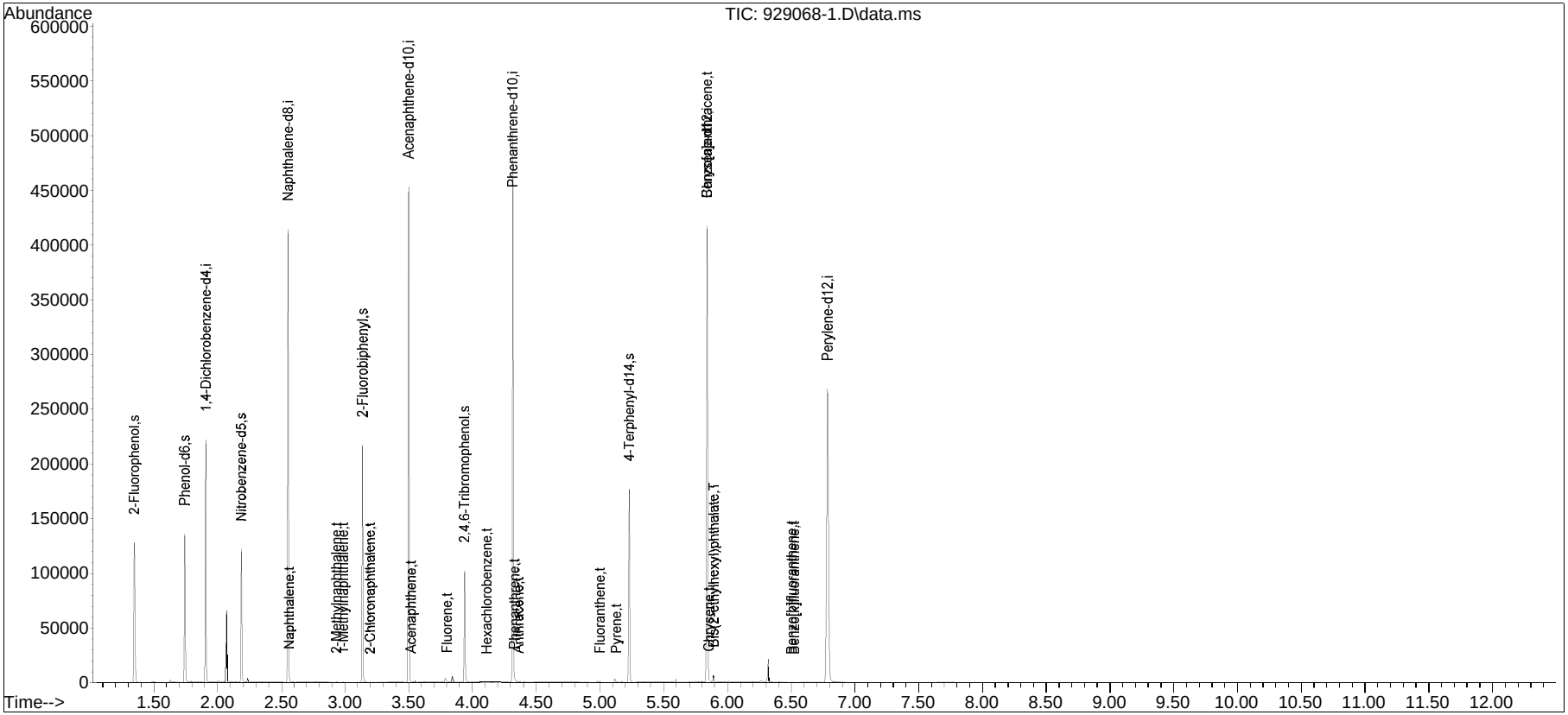
(#) = qualifier out of range (m) = manual integration (+) = signals summed

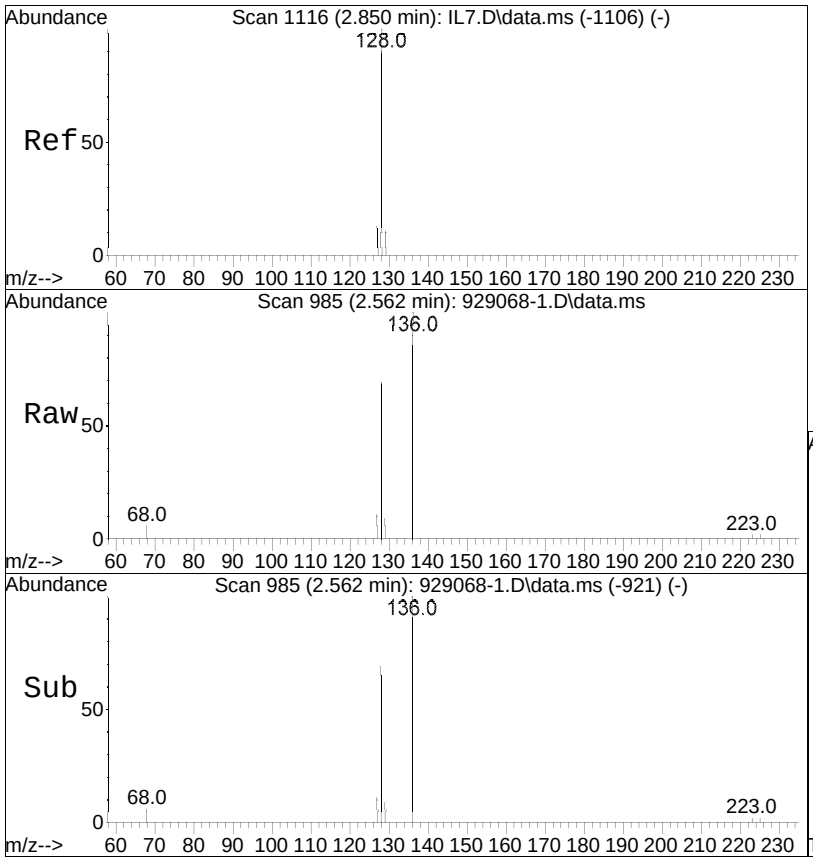
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 929068-1.D
Acq On : 04 Jun 2024 10:30 am
Operator : sv119:rp
Sample : WG1929068-1,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 14:50:53 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0604.D•

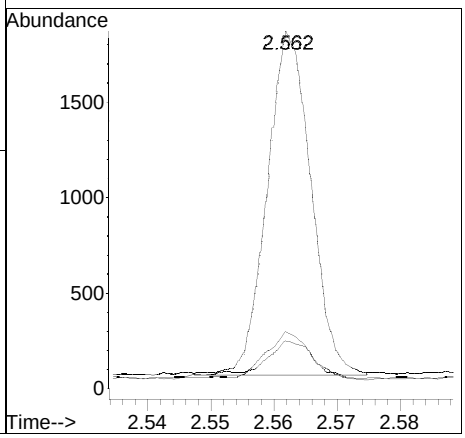


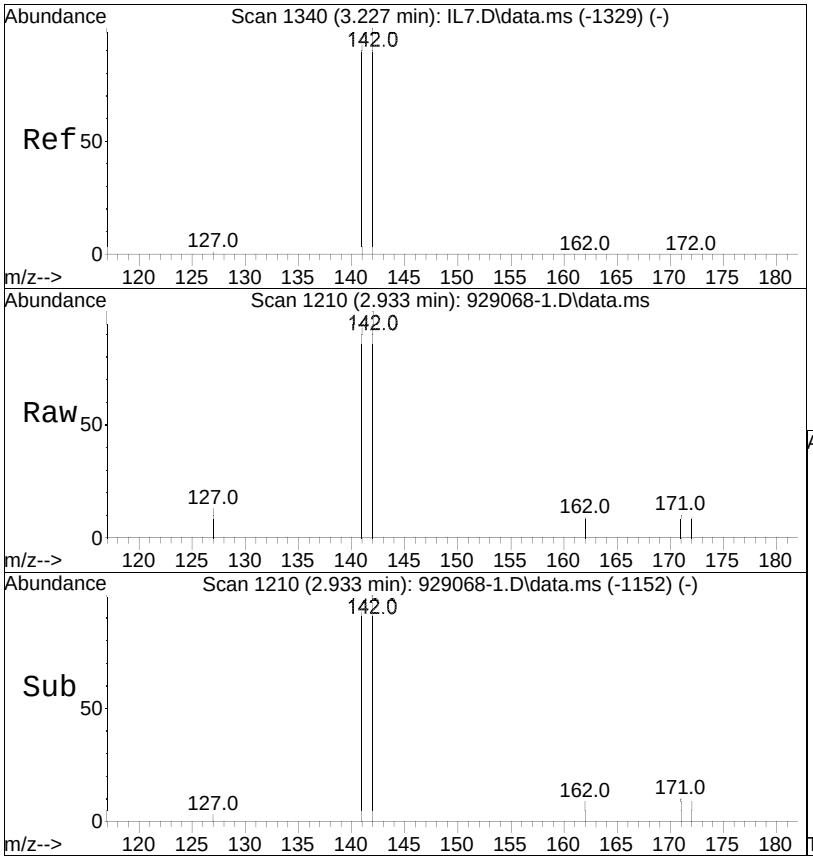


#9
Naphthalene
Concen: 20.16 ng/ml M6
RT: 2.562 min Scan# 985
Delta R.T. 0.003 min
Lab File: 929068-1.D
Acq: 04 Jun 2024 10:30 am

Tgt Ion:128 Resp: 863

Ion	Ratio	Lower	Upper
128	100		
129	13.4	8.8	13.2#
127	14.1	10.6	15.8

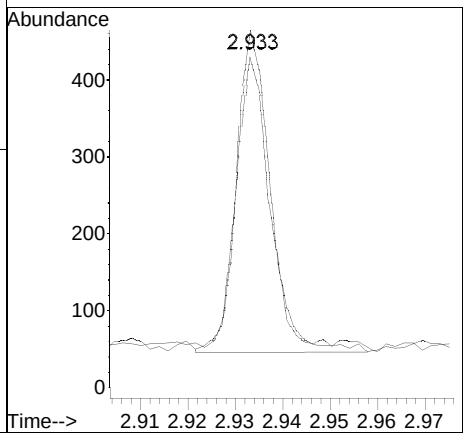


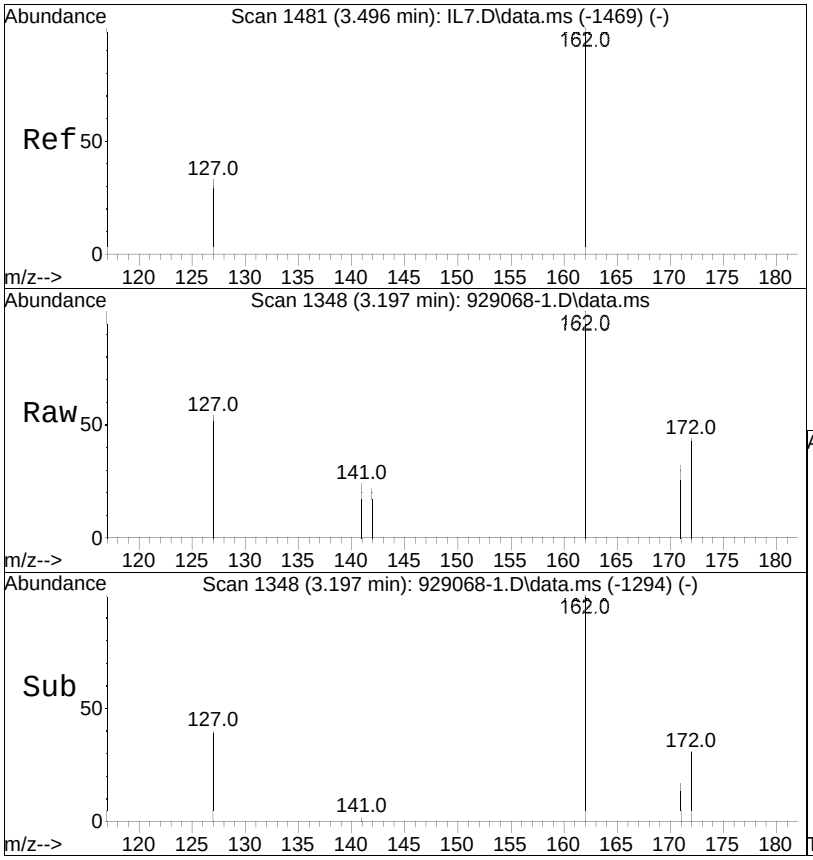


#11
2-Methylnaphthalene
Concen: 6.54 ng/ml
RT: 2.933 min Scan# 1210
Delta R.T. 0.004 min
Lab File: 929068-1.D
Acq: 04 Jun 2024 10:30 am

Tgt Ion:142 Resp: 207

Ion	Ratio	Lower	Upper
142	100		
141	85.0	74.1	111.1

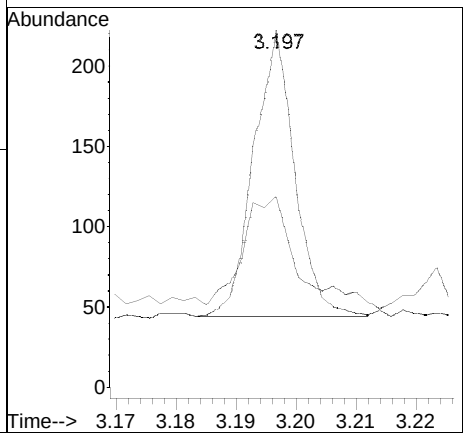


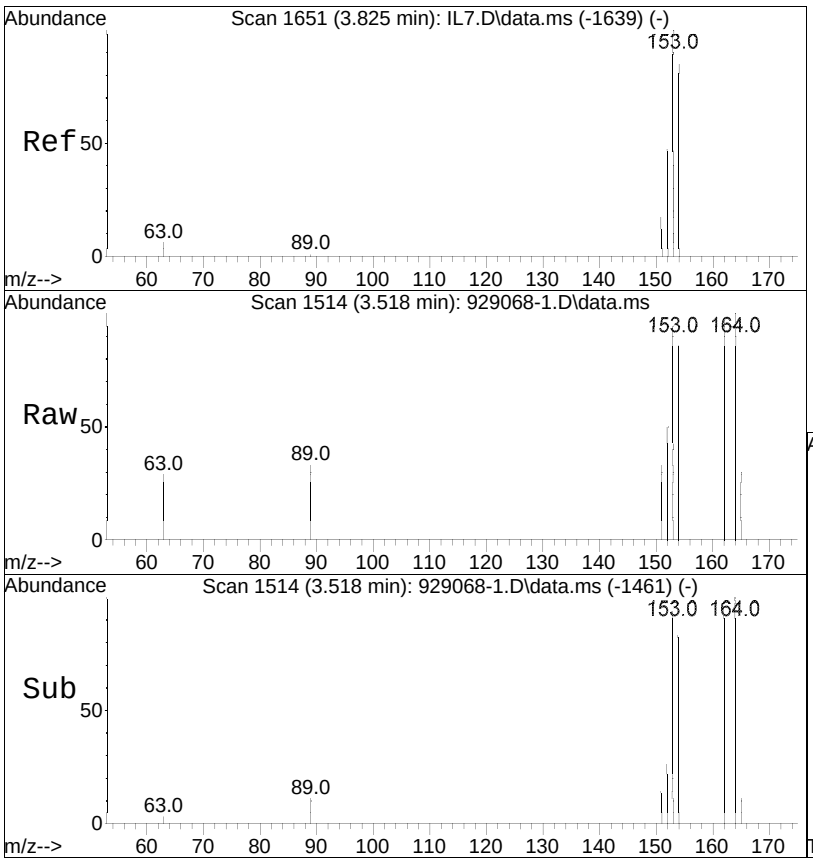


#14
2-Chloronaphthalene
Concen: 2.46 ng/ml
RT: 3.197 min Scan# 1348
Delta R.T. 0.004 min
Lab File: 929068-1.D
Acq: 04 Jun 2024 10:30 am

Tgt Ion:162 Resp: 83

Ion	Ratio	Lower	Upper
162	100		
127	53.0	29.7	44.5#

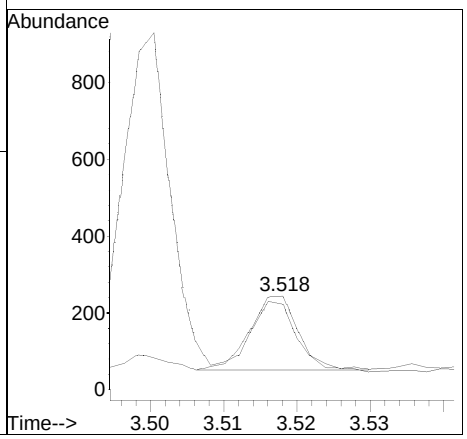


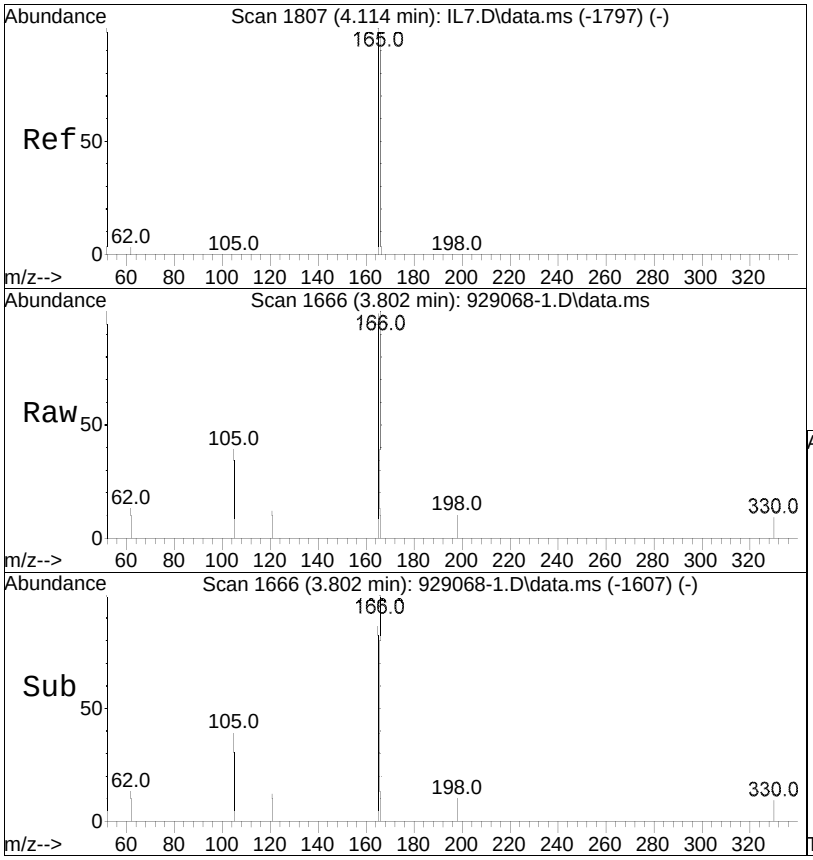


#18
Acenaphthene
Concen: 3.10 ng/ml M6
RT: 3.518 min Scan# 1514
Delta R.T. 0.004 min
Lab File: 929068-1.D
Acq: 04 Jun 2024 10:30 am

Tgt Ion:153 Resp: 91

Ion	Ratio	Lower	Upper
153	100		
154	90.1	66.9	100.3

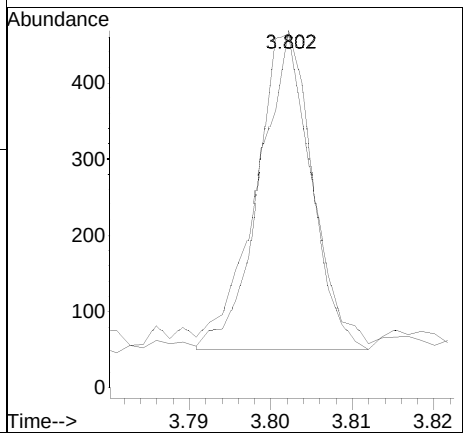


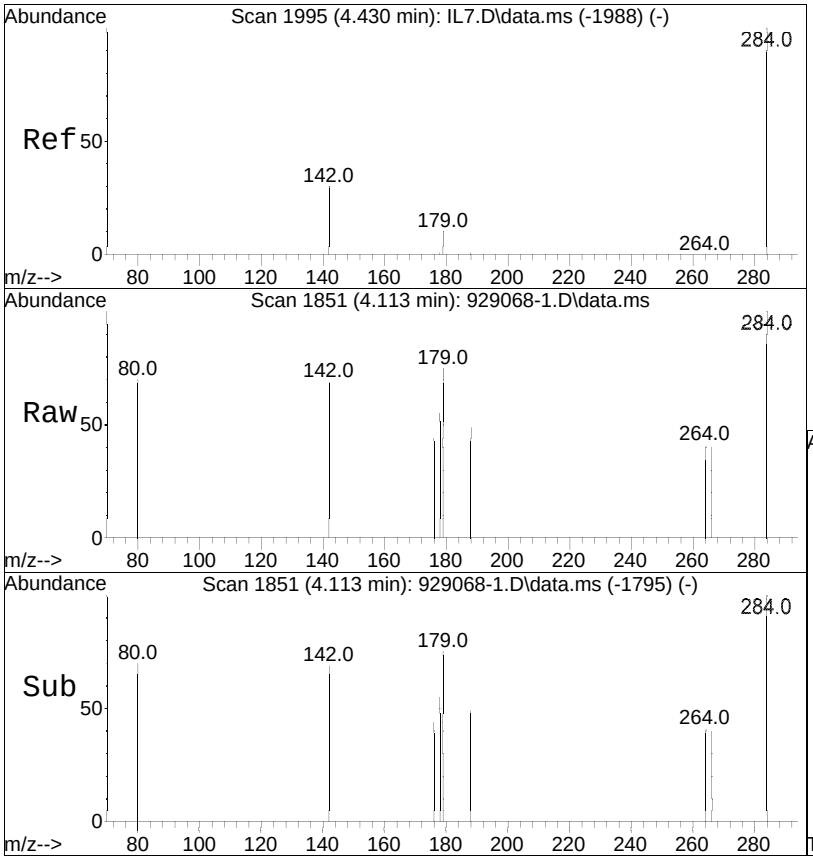


#20
Fluorene
Concen: 5.25 ng/ml
RT: 3.802 min Scan# 1666
Delta R.T. 0.002 min
Lab File: 929068-1.D
Acq: 04 Jun 2024 10:30 am

Tgt Ion:166 Resp: 184

Ion	Ratio	Lower	Upper
166	100		
165	103.3	82.9	124.3

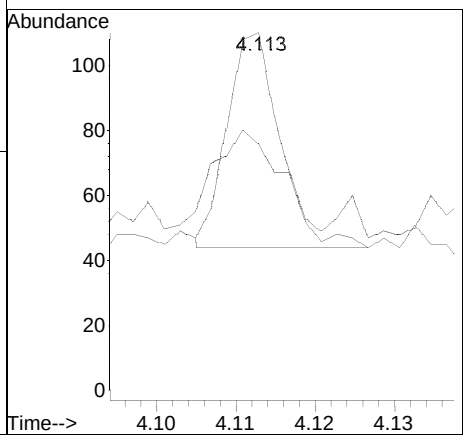


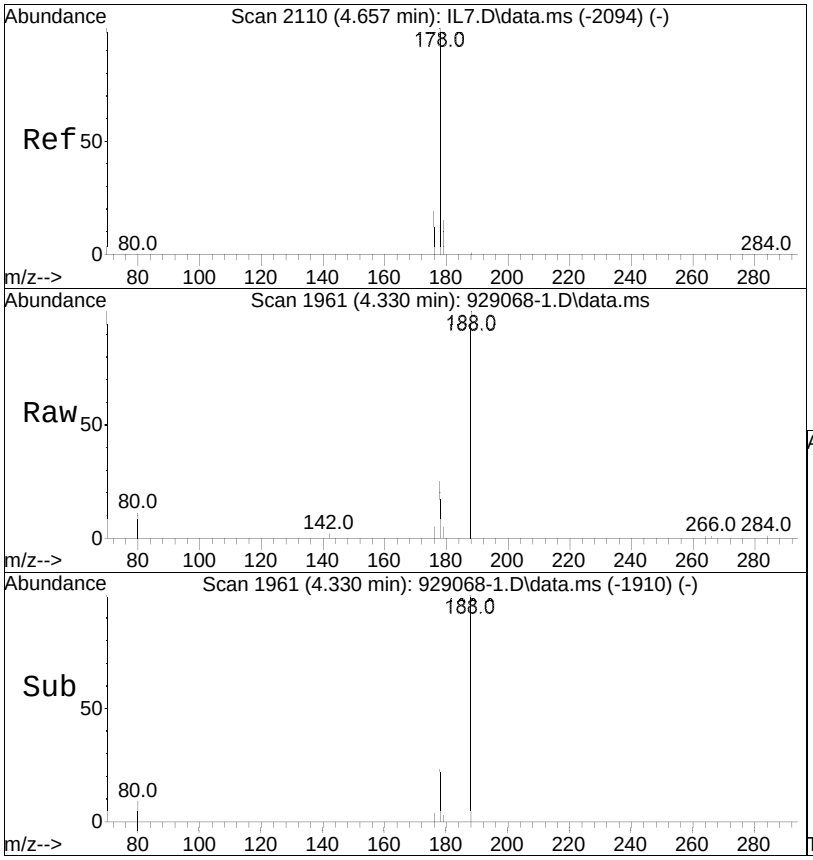


#24
Hexachlorobenzene
Concen: 2.37 ng/ml
RT: 4.113 min Scan# 1851
Delta R.T. 0.002 min
Lab File: 929068-1.D
Acq: 04 Jun 2024 10:30 am

Tgt Ion:284 Resp: 31

Ion	Ratio	Lower	Upper
284	100		
142	58.1	26.9	40.3#

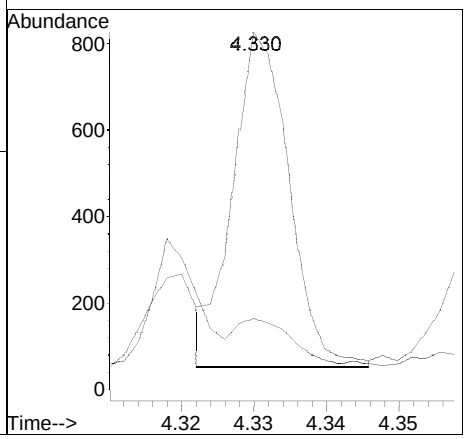


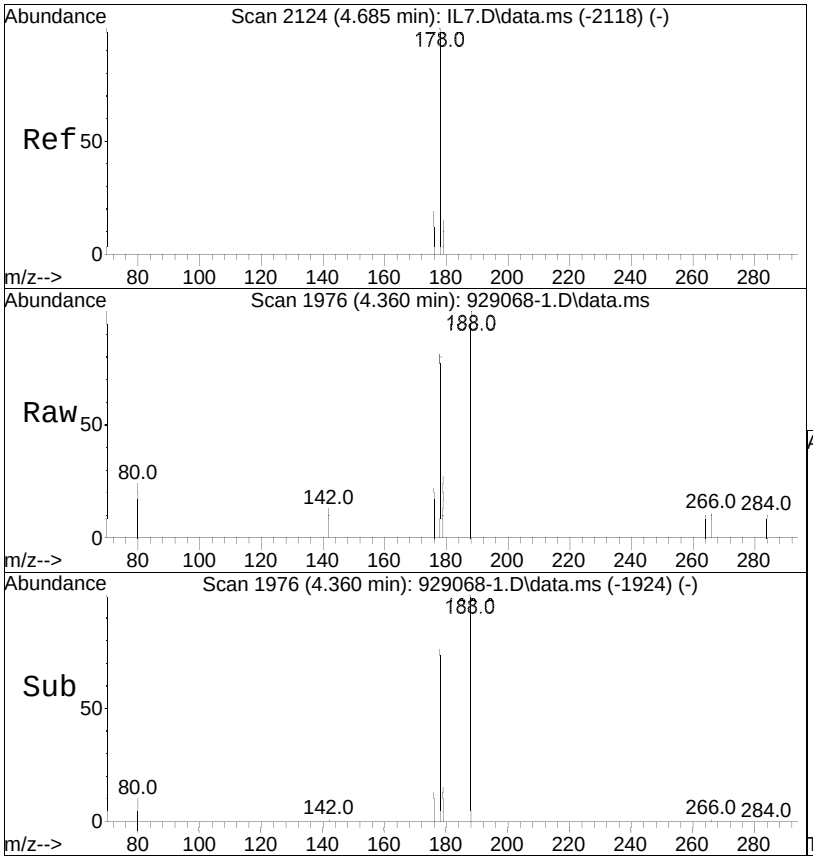


#26
Phenanthrene
Concen: 8.09 ng/ml M1
RT: 4.330 min Scan# 1961
Delta R.T. -0.000 min
Lab File: 929068-1.D
Acq: 04 Jun 2024 10:30 am

Tgt Ion:178 Resp: 415

Ion	Ratio	Lower	Upper
178	100		
179	14.7	12.3	18.5

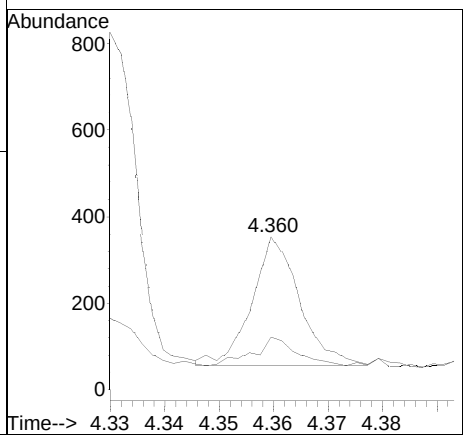


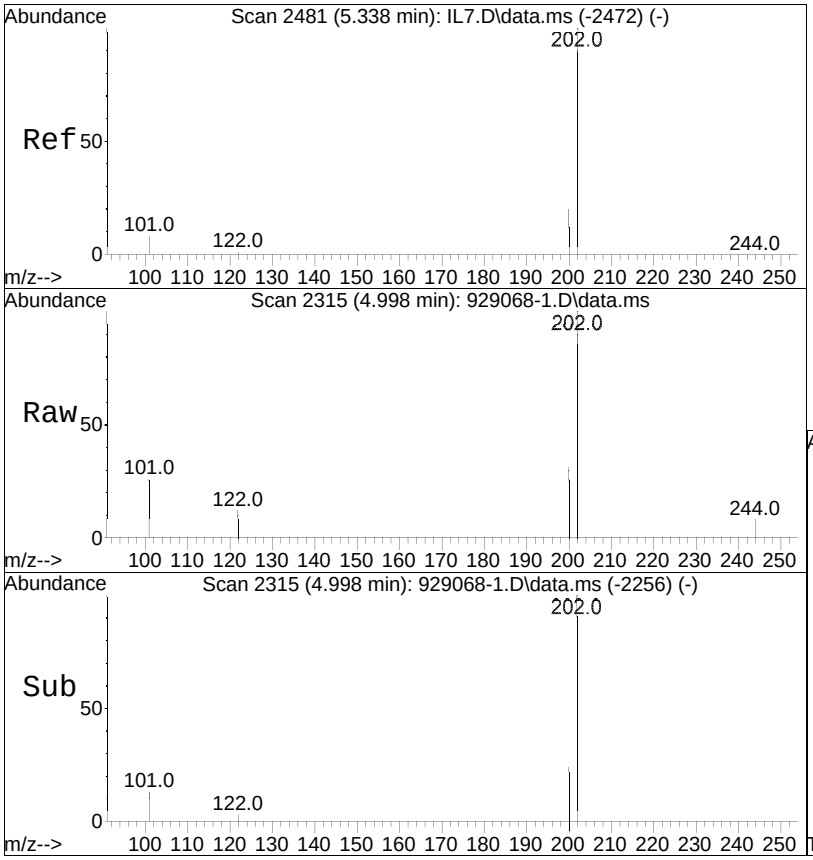


#27
Anthracene
Concen: 3.52 ng/ml M6
RT: 4.360 min Scan# 1976
Delta R.T. 0.002 min
Lab File: 929068-1.D
Acq: 04 Jun 2024 10:30 am

Tgt Ion:178 Resp: 179

Ion	Ratio	Lower	Upper
178	100		
179	20.1	12.2	18.4#

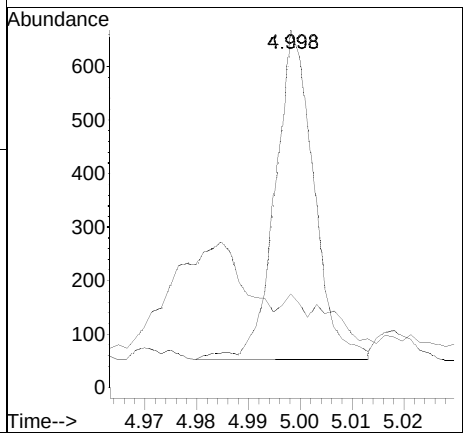


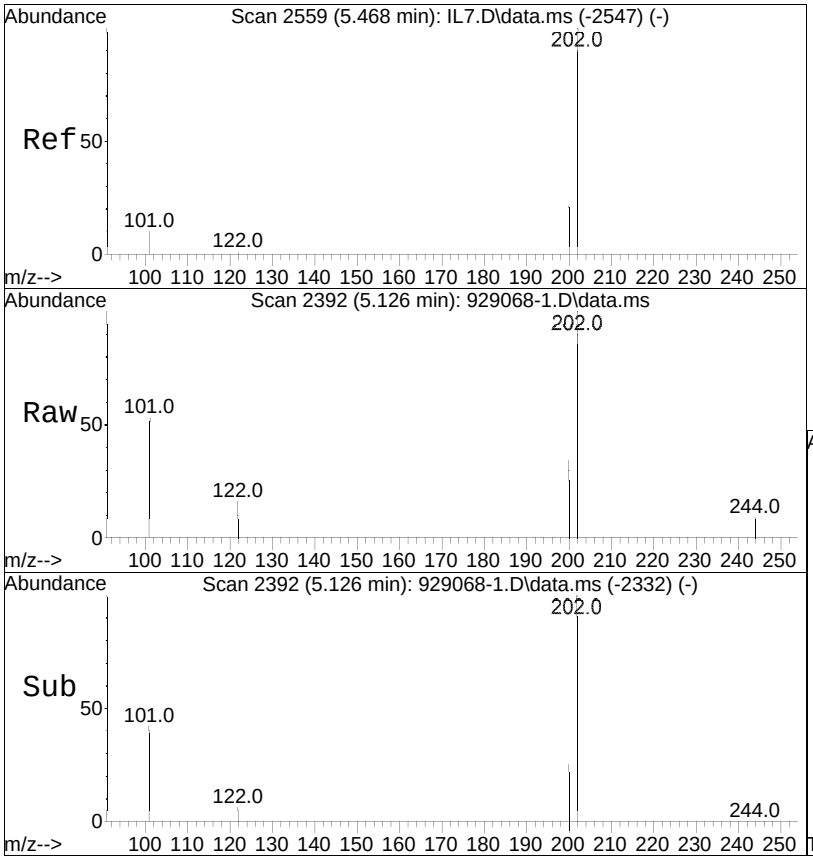


#28
Fluoranthene
Concen: 4.69 ng/ml
RT: 4.998 min Scan# 2315
Delta R.T. -0.002 min
Lab File: 929068-1.D
Acq: 04 Jun 2024 10:30 am

Tgt Ion:202 Resp: 317

Ion	Ratio	Lower	Upper
202	100		
101	3.2	8.3	12.5#

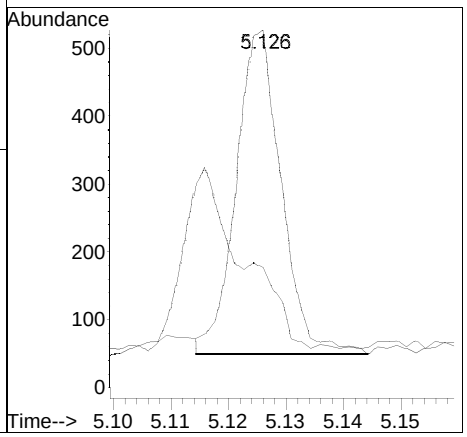


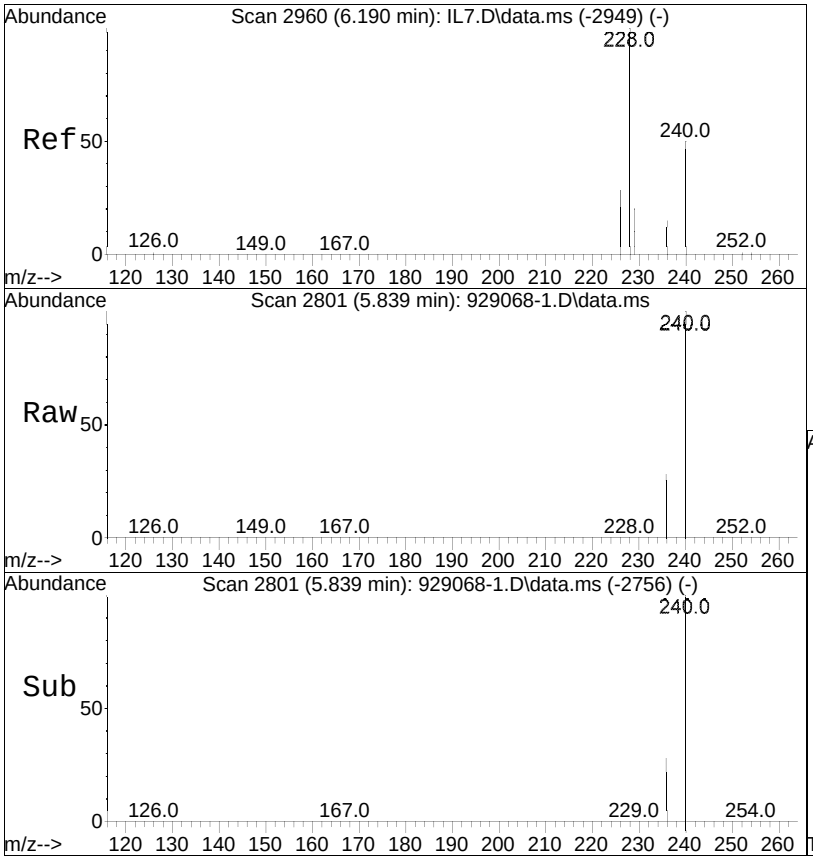


#29
Pyrene
Concen: 3.71 ng/ml M7
RT: 5.126 min Scan# 2392
Delta R.T. -0.000 min
Lab File: 929068-1.D
Acq: 04 Jun 2024 10:30 am

Tgt Ion:202 Resp: 258

Ion	Ratio	Lower	Upper
202	100		
200	17.4	17.3	25.9

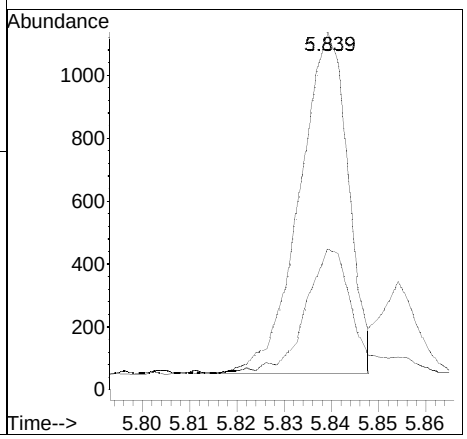


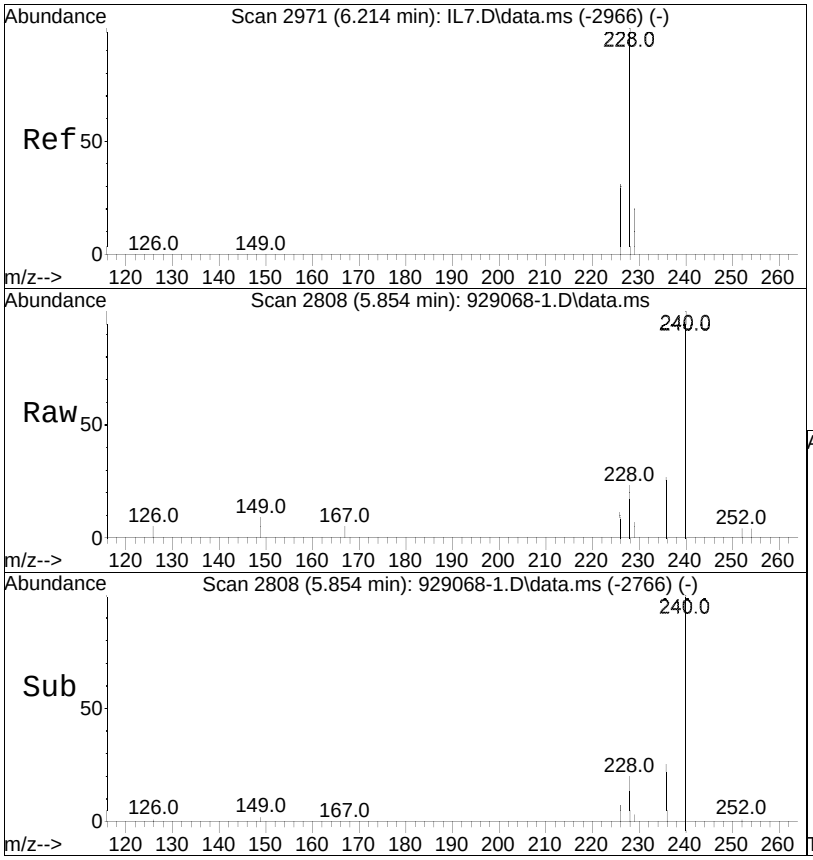


#32
Benzo[a]anthracene
Concen: 1.78 ng/ml
RT: 5.839 min Scan# 2801
Delta R.T. -0.004 min
Lab File: 929068-1.D
Acq: 04 Jun 2024 10:30 am

Tgt Ion:228 Resp: 772

Ion	Ratio	Lower	Upper
228	100		
229	38.1	15.6	23.4#

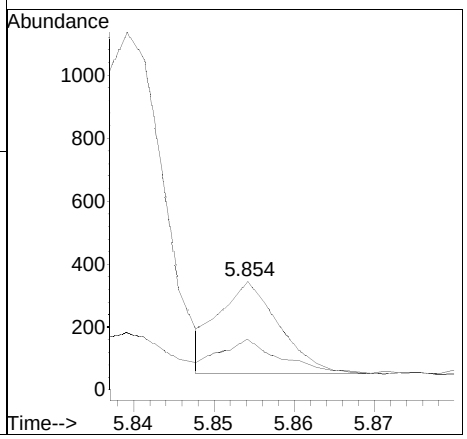


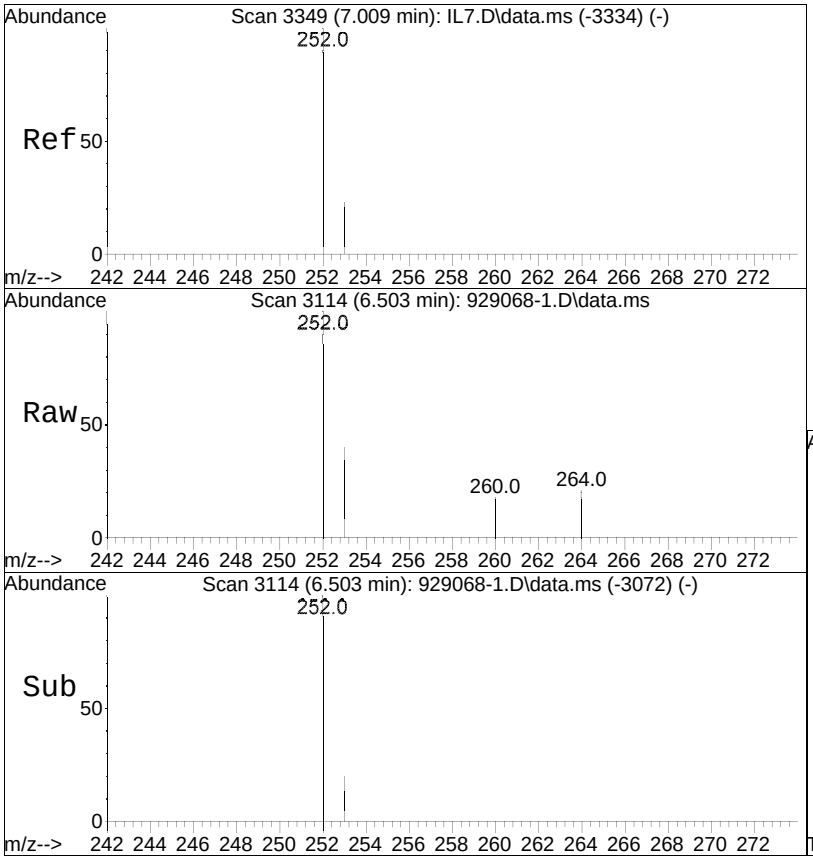


#34
Chrysene
Concen: 2.46 ng/ml
RT: 5.854 min Scan# 2808
Delta R.T. -0.011 min
Lab File: 929068-1.D
Acq: 04 Jun 2024 10:30 am

Tgt Ion:228 Resp: 151

Ion	Ratio	Lower	Upper
228	100		
226	39.1	24.5	36.7#

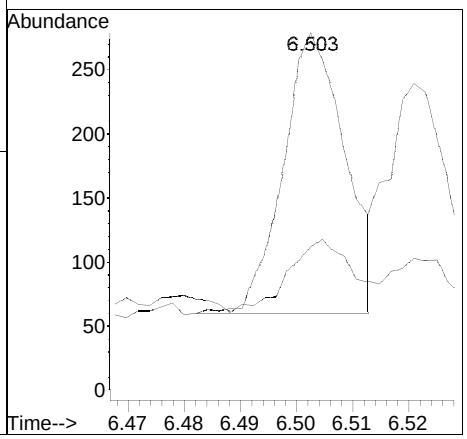


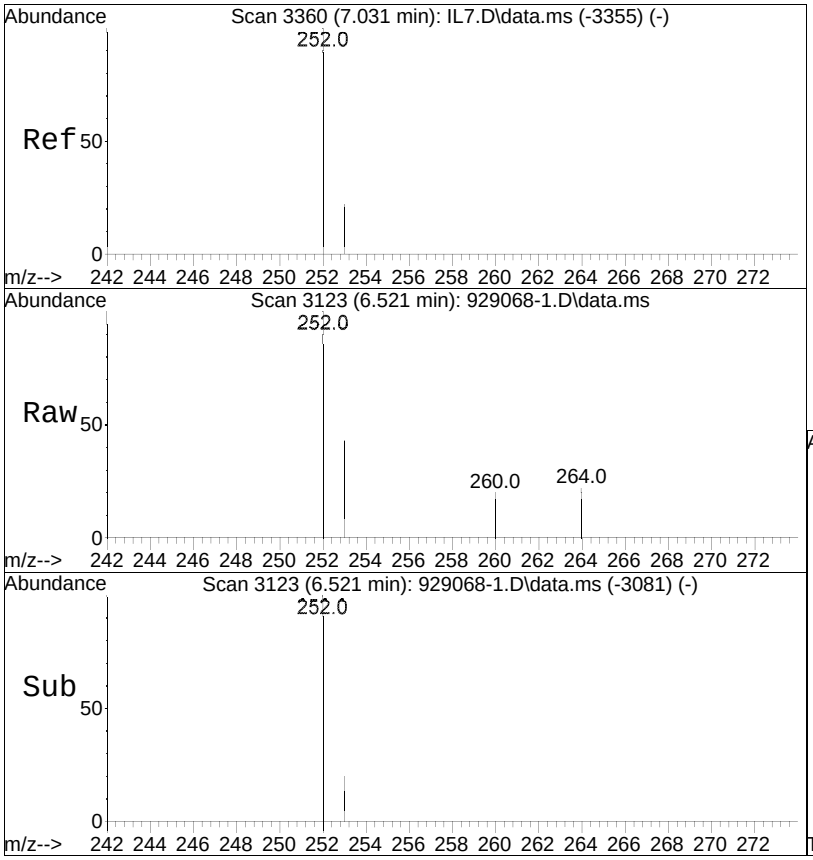


#37
Benzo[b]fluoranthene
Concen: 2.54 ng/ml
RT: 6.503 min Scan# 3114
Delta R.T. -0.014 min
Lab File: 929068-1.D
Acq: 04 Jun 2024 10:30 am

Tgt Ion:252 Resp: 168

Ion	Ratio	Lower	Upper
252	100		
253	27.4	17.3	25.9#

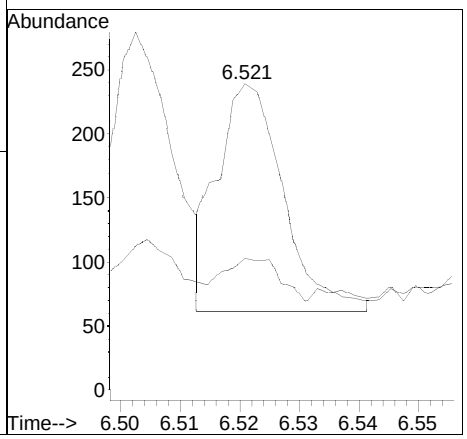




#38
Benzo[k]fluoranthene
Concen: 2.15 ng/ml M1
RT: 6.521 min Scan# 3123
Delta R.T. -0.014 min
Lab File: 929068-1.D
Acq: 04 Jun 2024 10:30 am

Tgt Ion:252 Resp: 135

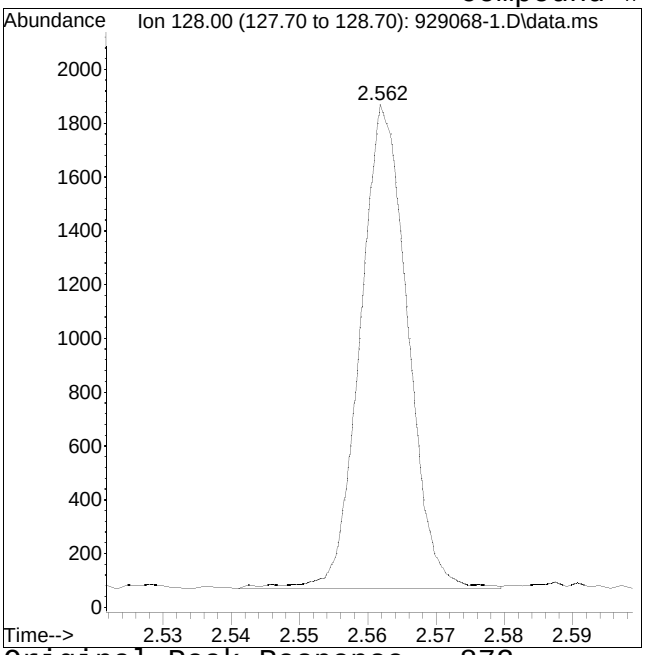
Ion	Ratio	Lower	Upper
252	100		
253	16.3	17.4	26.2#



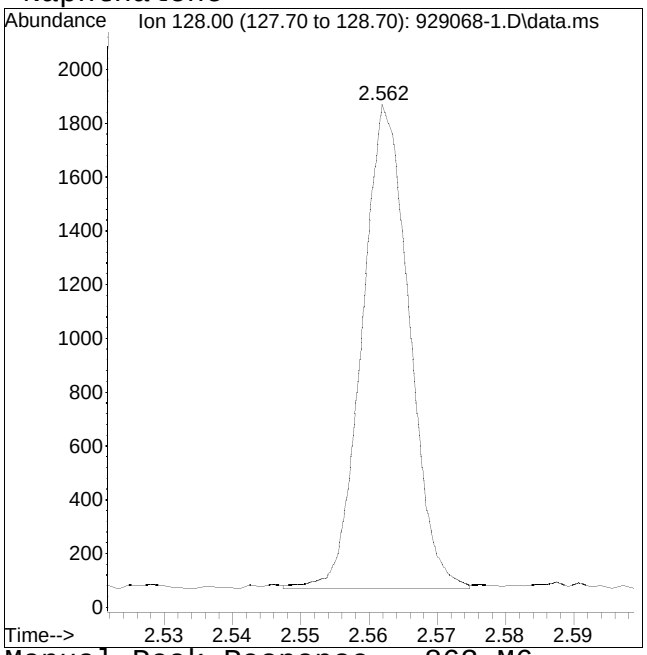
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 929068-1.D Operator : sv119:rp
Date Inj'd : 6/4/2024 10:30 am Instrument : SV119
Sample : WG1929068-1,32,,ah Quant Date : 6/4/2024 10:46 am

Compound #9: Naphthalene



Original Peak Response = 872



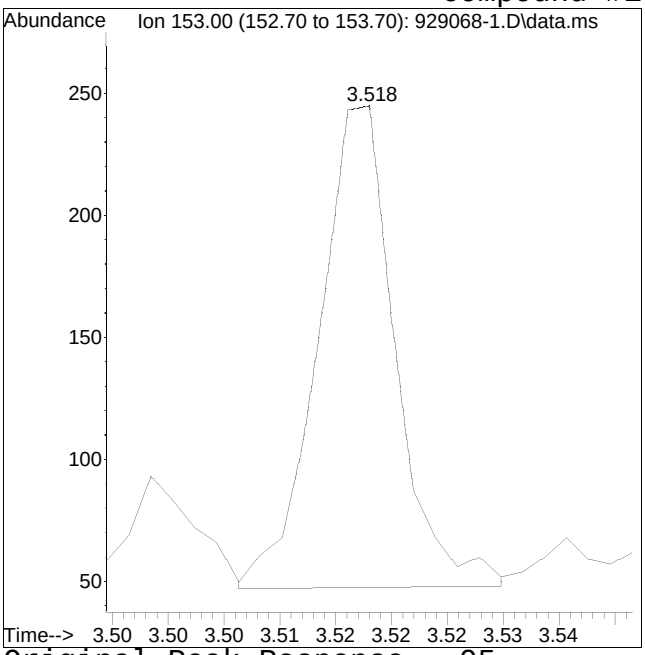
Manual Peak Response = 863 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

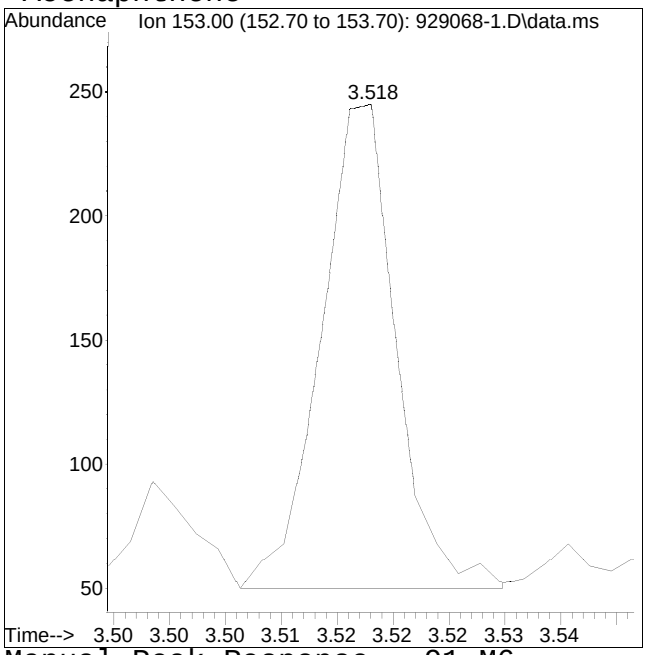
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 929068-1.D Operator : sv119:rp
Date Inj'd : 6/4/2024 10:30 am Instrument : SV119
Sample : WG1929068-1,32,,ah Quant Date : 6/4/2024 10:46 am

Compound #18: Acenaphthene



Original Peak Response = 95



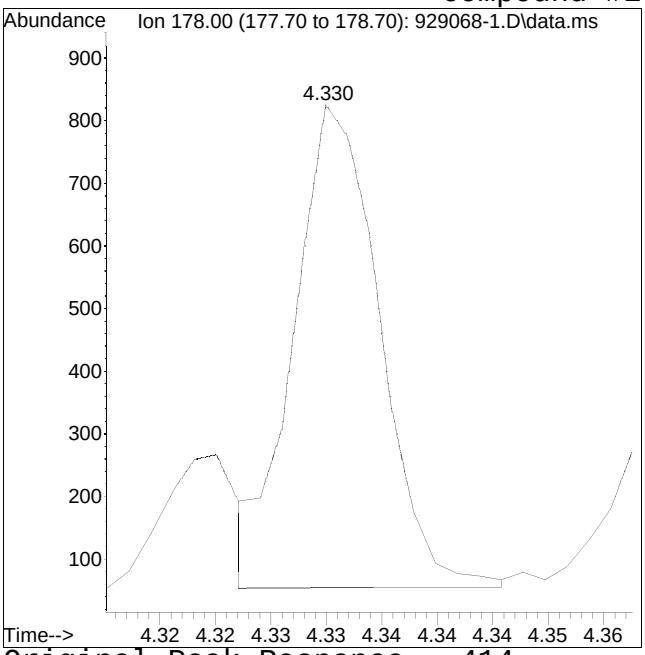
Manual Peak Response = 91 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

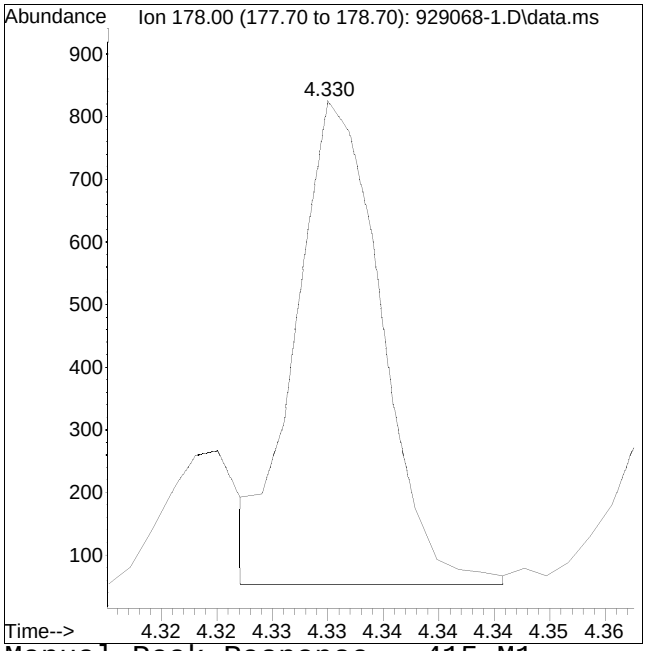
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 929068-1.D Operator : sv119:rp
Date Inj'd : 6/4/2024 10:30 am Instrument : SV119
Sample : WG1929068-1,32,,ah Quant Date : 6/4/2024 10:46 am

Compound #26: Phenanthrene



Original Peak Response = 414



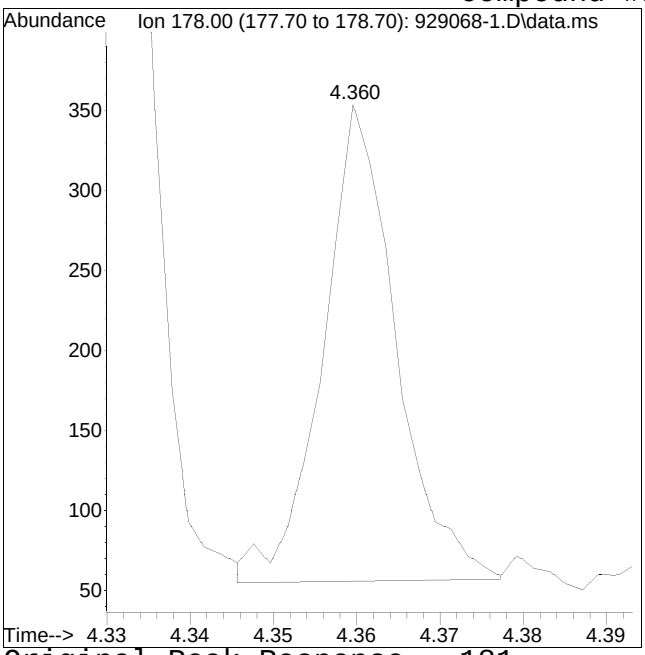
Manual Peak Response = 415 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

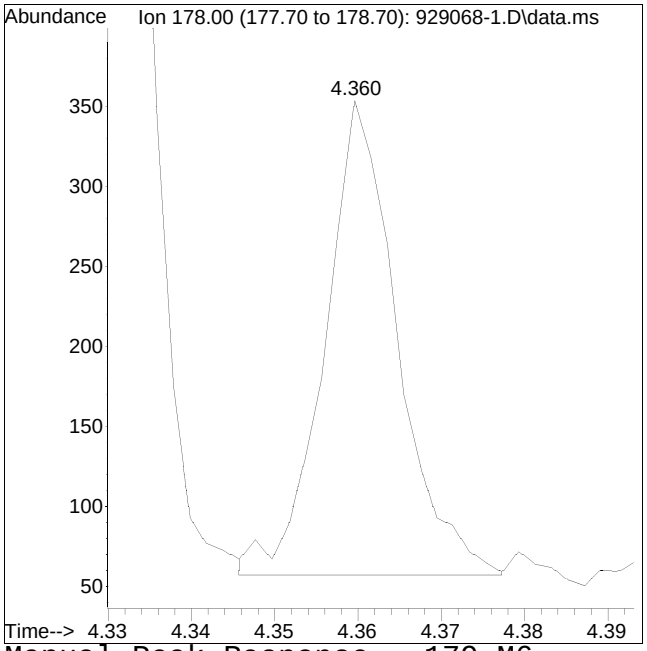
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 929068-1.D Operator : sv119:rp
Date Inj'd : 6/4/2024 10:30 am Instrument : SV119
Sample : WG1929068-1,32,,ah Quant Date : 6/4/2024 10:46 am

Compound #27: Anthracene



Original Peak Response = 181



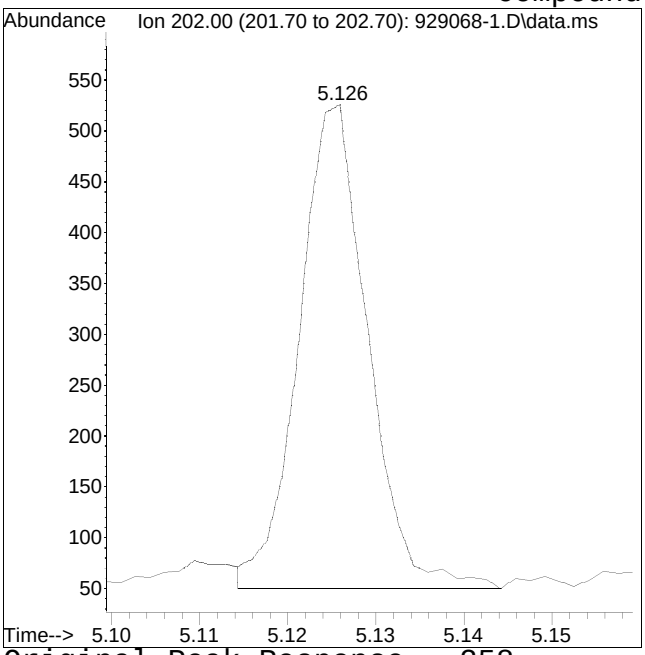
Manual Peak Response = 179 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

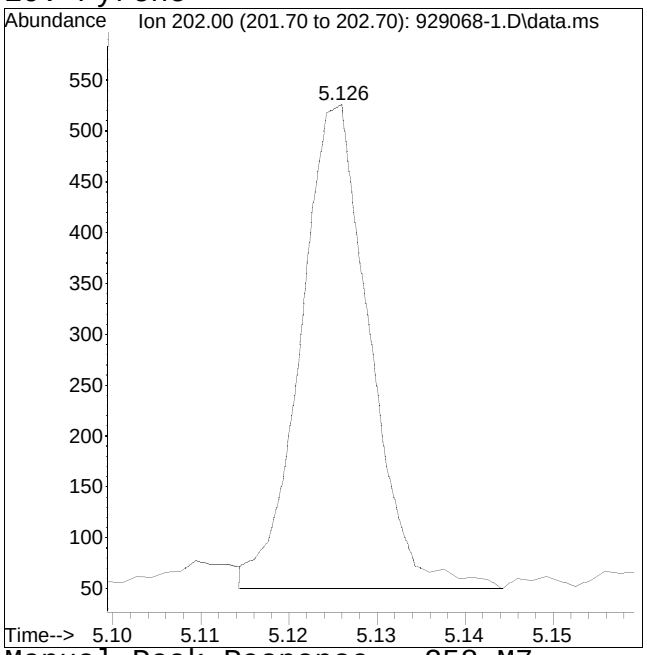
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 929068-1.D Operator : sv119:rp
Date Inj'd : 6/4/2024 10:30 am Instrument : SV119
Sample : WG1929068-1,32,,ah Quant Date : 6/4/2024 10:46 am

Compound #29: Pyrene



Original Peak Response = 258



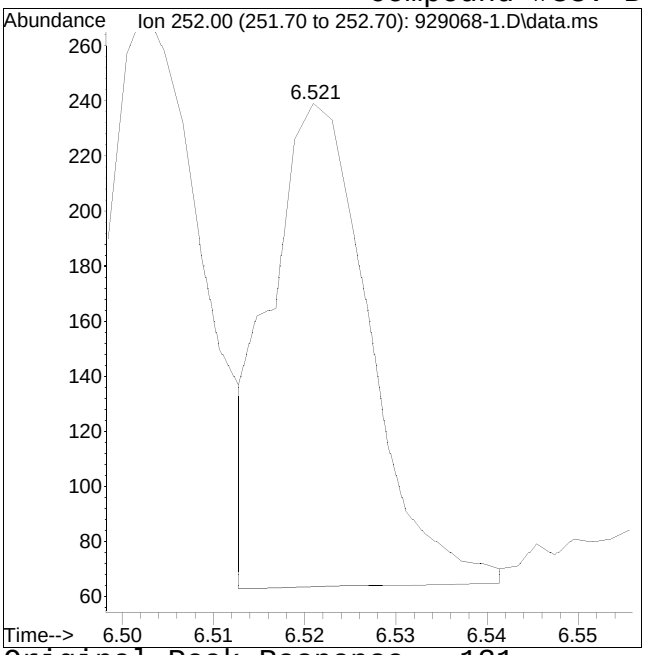
Manual Peak Response = 258 M7

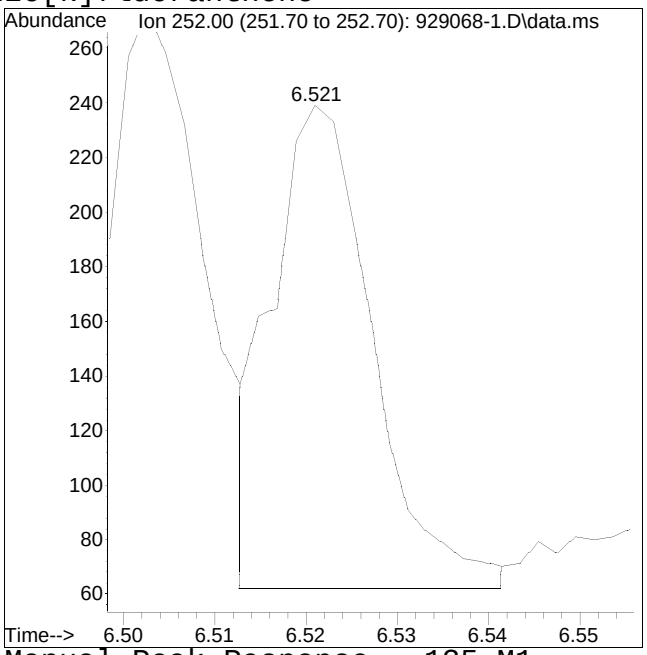
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 929068-1.D Operator : sv119:rp
Date Inj'd : 6/4/2024 10:30 am Instrument : SV119
Sample : WG1929068-1,32,,ah Quant Date : 6/4/2024 10:46 am

Compound #38: Benzo[k]fluoranthene





Original Peak Response = 131 Manual Peak Response = 135 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 929068-2.D
Acq On : 04 Jun 2024 09:57 am
Operator : sv119:rp
Sample : WG1929068-2,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 14:53:45 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240604LVI\ccv0604.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.909	152	50822	4000.000	ng/ml	0.00
Standard Area 1 = 56492			Recovery = 89.96%			
8) Naphthalene-d8	2.552	136	172387	4000.000	ng/ml	0.00
Standard Area 1 = 186100			Recovery = 92.63%			
17) Acenaphthene-d10	3.500	164	88193	4000.000	ng/ml	0.00
Standard Area 1 = 98337			Recovery = 89.68%			
22) Phenanthrene-d10	4.320	188	187572	4000.000	ng/ml	0.00
Standard Area 1 = 215749			Recovery = 86.94%			
31) Chrysene-d12	5.841	240	146550	4000.000	ng/ml	0.00
Standard Area 1 = 188074			Recovery = 77.92%			
36) Perylene-d12	6.787	264	161139	4000.000	ng/ml	-0.01
Standard Area 1 = 198758			Recovery = 81.07%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.344	112	47217	3396.744	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 67.93%			
3) Phenol-d6	1.744	99	50133	3008.708	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 60.17%			
7) Nitrobenzene-d5	2.183	82	27686	2190.470	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 87.62%			
13) 2-Fluorobiphenyl	3.137	172	66654	1731.242	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 69.25%			
21) 2,4,6-Tribromophenol	3.937	330	28644	5891.135	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 117.82%#			
30) 4-Terphenyl-d14	5.229	244	70807	1539.868	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 61.59%			
Target Compounds						Qvalue
6) Hexachloroethane	2.156	117	22796	3625.881	ng/ml	90
9) Naphthalene	2.562	128	150714	3661.434	ng/ml	100
10) Hexachlorobutadiene	2.637	225	34435	3884.512	ng/ml	100
11) 2-Methylnaphthalene	2.933	142	109249	3589.570	ng/ml	97
14) 2-Chloronaphthalene	3.195	162	116393	3590.197	ng/ml	92
16) Acenaphthylene	3.420	152	177715	3688.757	ng/ml	100
18) Acenaphthene	3.518	153	112671	4132.533	ng/ml	98
20) Fluorene	3.802	166	136353	4183.970	ng/ml	97
24) Hexachlorobenzene	4.113	284	58323	4809.713	ng/ml	100
25) Pentachlorophenol	4.225	266	37805	4882.519	ng/ml	100

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 929068-2.D
Acq On : 04 Jun 2024 09:57 am
Operator : sv119:rp
Sample : WG1929068-2,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 14:53:45 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240604LVI\ccv0604.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.332	178	206814	4340.587	ng/ml	100
27) Anthracene	4.360	178	210636	4457.966	ng/ml	100
28) Fluoranthene	4.998	202	253781	4041.343	ng/ml	100
29) Pyrene	5.126	202	258721	4010.311	ng/ml	100
32) Benzo[a]anthracene	5.837	228	244959	5026.474	ng/ml	99
34) Chrysene	5.856	228	219867	4545.802	ng/ml	99
37) Benzo[b]fluoranthene	6.507	252	232133	4123.520	ng/ml	99
38) Benzo[k]fluoranthene	6.525	252	215378	4029.117	ng/ml	99
39) Benzo[a]pyrene	6.742	252	201024	4056.853	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	7.744	276	231145	4292.046	ng/ml#	89
41) Dibenzo[a,h]anthracene	7.773	278	186793M6	3727.974	ng/ml	
42) Benzo[g,h,i]perylene	8.014	276	204759	3737.827	ng/ml#	89

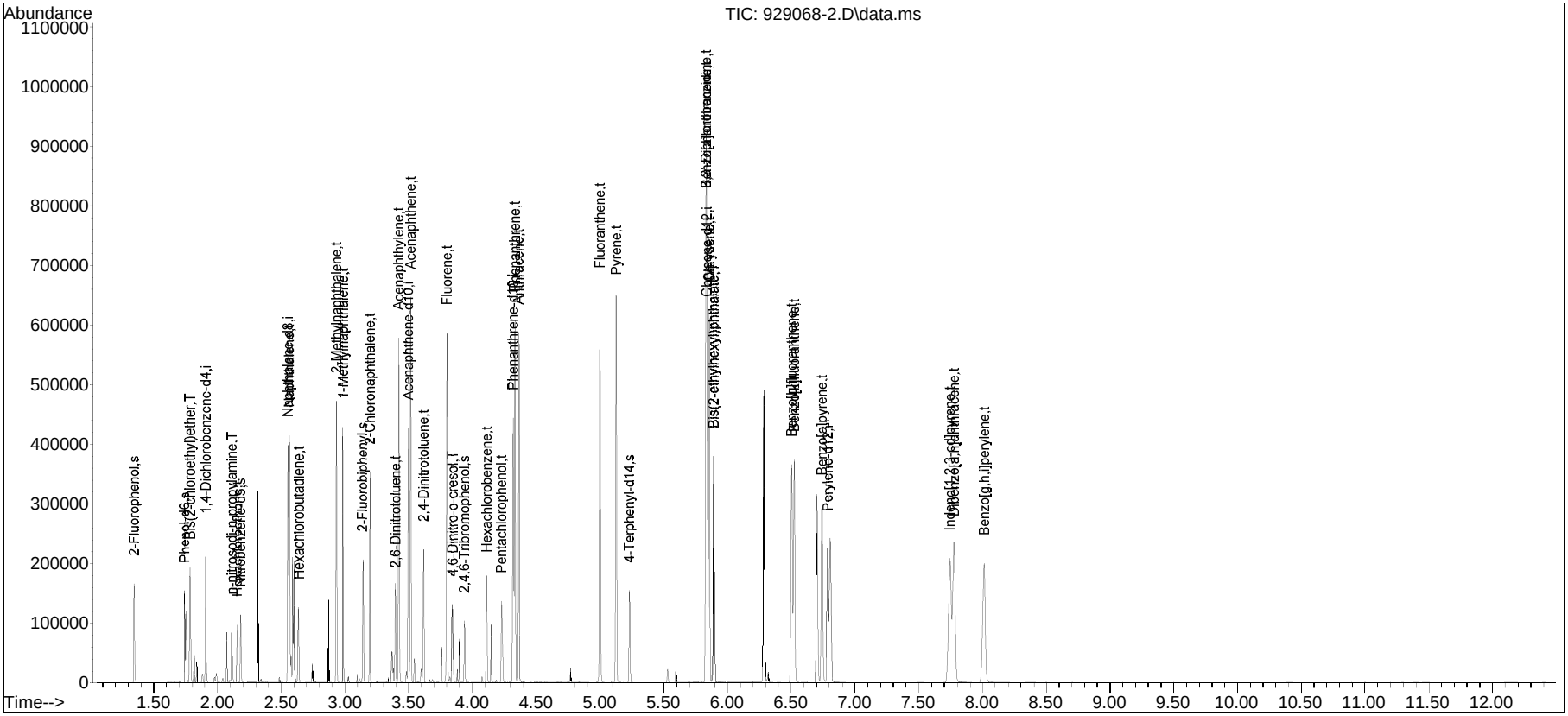
(#) = qualifier out of range (m) = manual integration (+) = signals summed

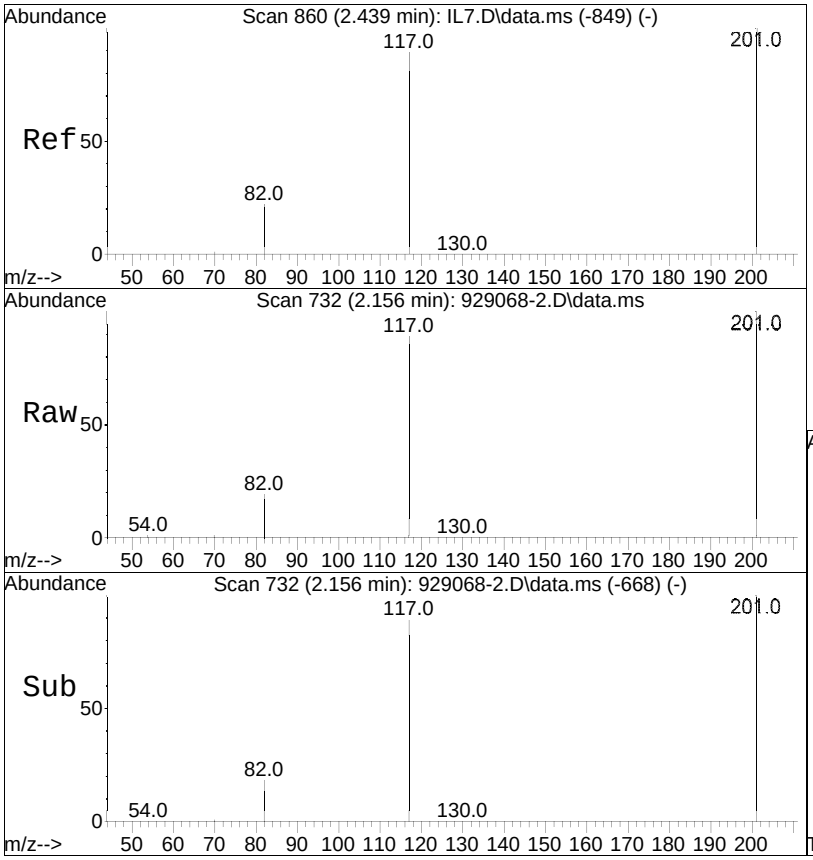
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 929068-2.D
Acq On : 04 Jun 2024 09:57 am
Operator : sv119:rp
Sample : WG1929068-2,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 14:53:45 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0604.D•

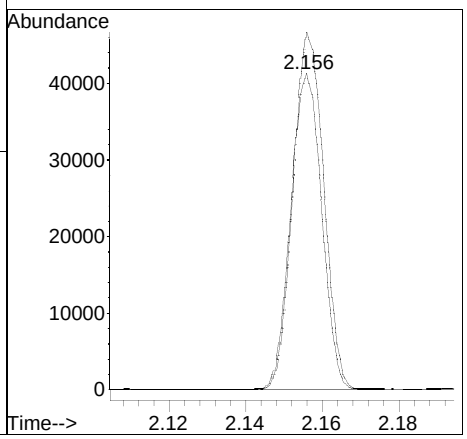


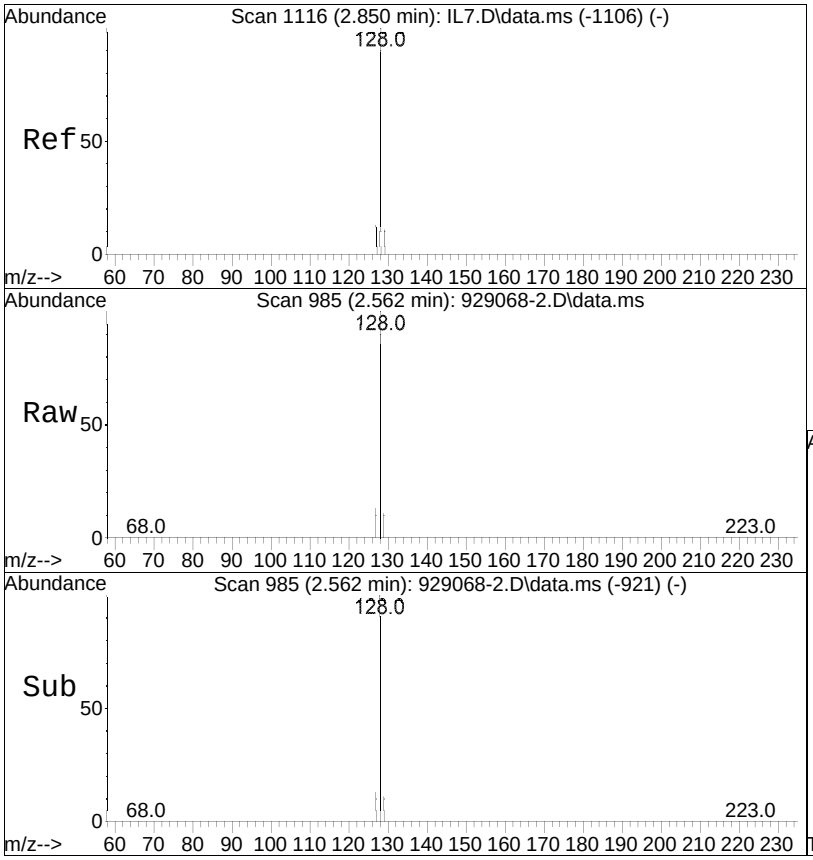


#6
Hexachloroethane
Concen: 3625.88 ng/ml
RT: 2.156 min Scan# 732
Delta R.T. 0.003 min
Lab File: 929068-2.D
Acq: 04 Jun 2024 09:57 am

Tgt Ion:117 Resp: 22796

Ion	Ratio	Lower	Upper
117	100		
201	112.4	81.5	122.3

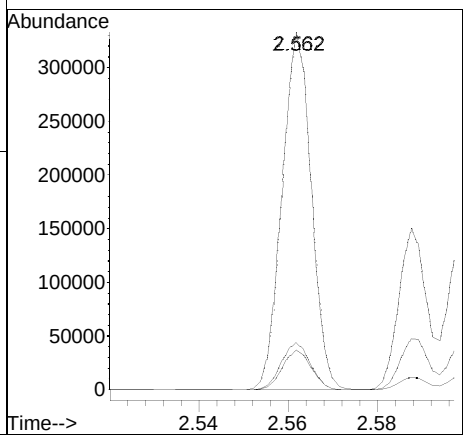


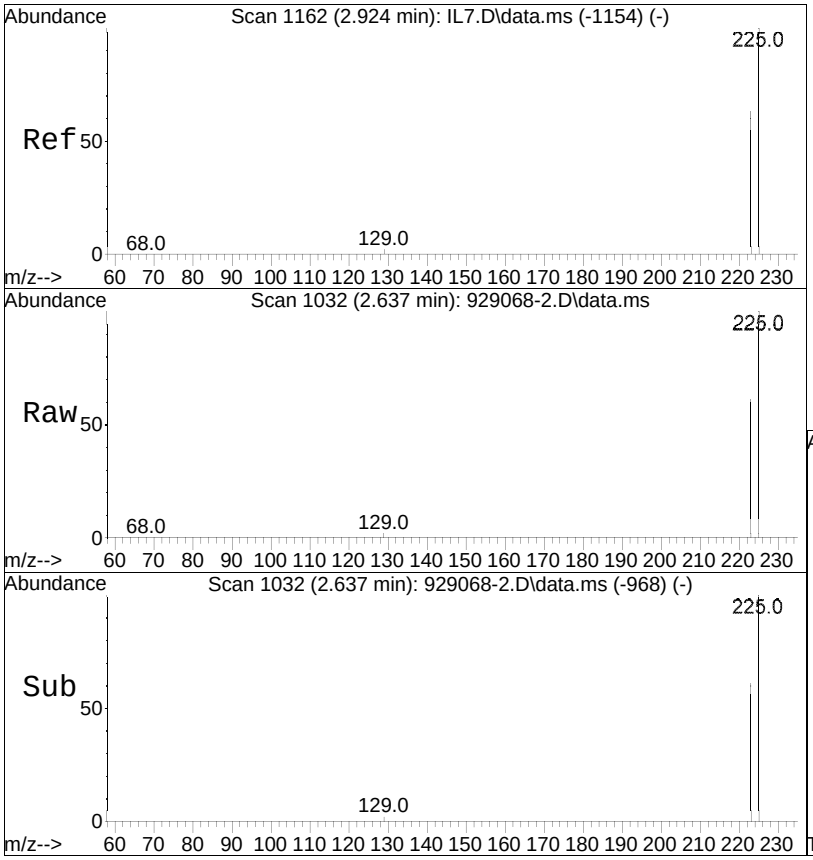


#9
Naphthalene
Concen: 3661.43 ng/ml
RT: 2.562 min Scan# 985
Delta R.T. 0.003 min
Lab File: 929068-2.D
Acq: 04 Jun 2024 09:57 am

Tgt Ion:128 Resp: 150714

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	13.2	10.6	15.8

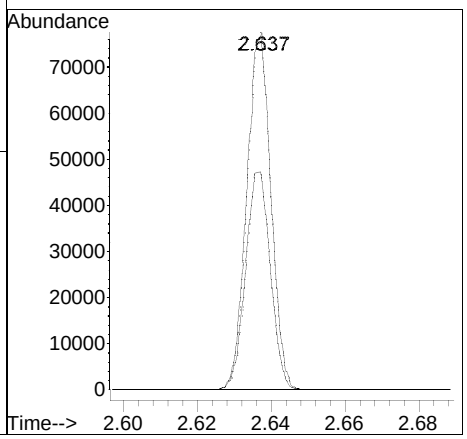


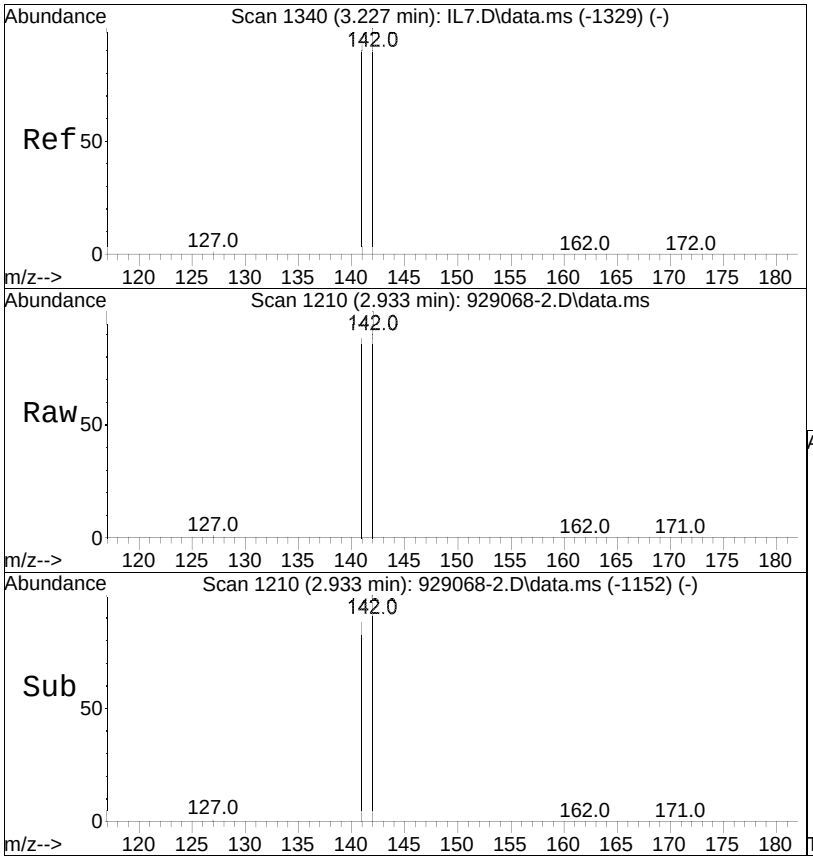


#10
Hexachlorobutadiene
Concen: 3884.51 ng/ml
RT: 2.637 min Scan# 1032
Delta R.T. 0.003 min
Lab File: 929068-2.D
Acq: 04 Jun 2024 09:57 am

Tgt Ion:225 Resp: 34435

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.1	75.1

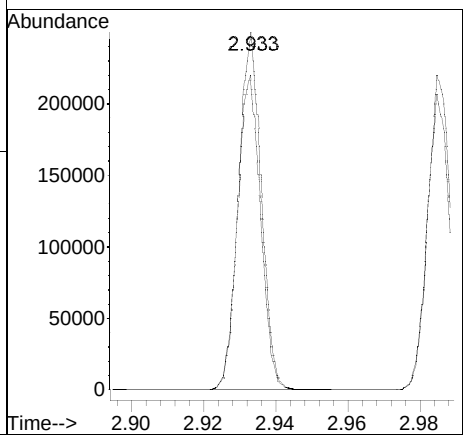


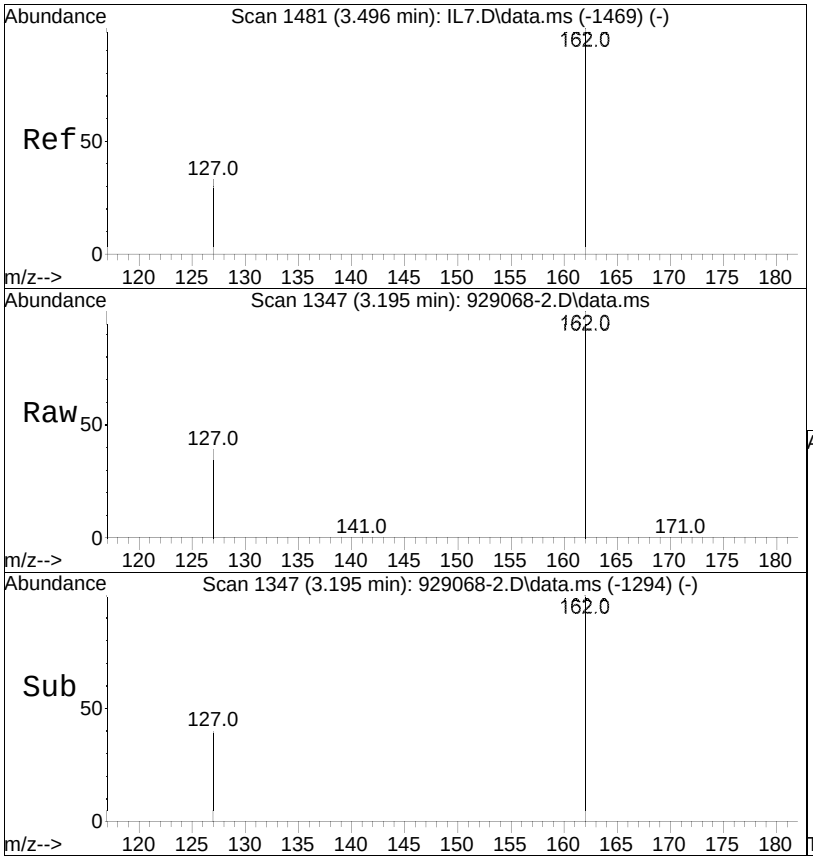


#11
2-Methylnaphthalene
Concen: 3589.57 ng/ml
RT: 2.933 min Scan# 1210
Delta R.T. 0.004 min
Lab File: 929068-2.D
Acq: 04 Jun 2024 09:57 am

Tgt Ion:142 Resp: 109249

Ion	Ratio	Lower	Upper
142	100		
141	89.8	74.1	111.1

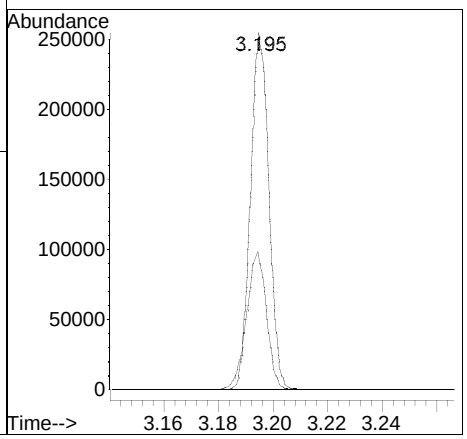


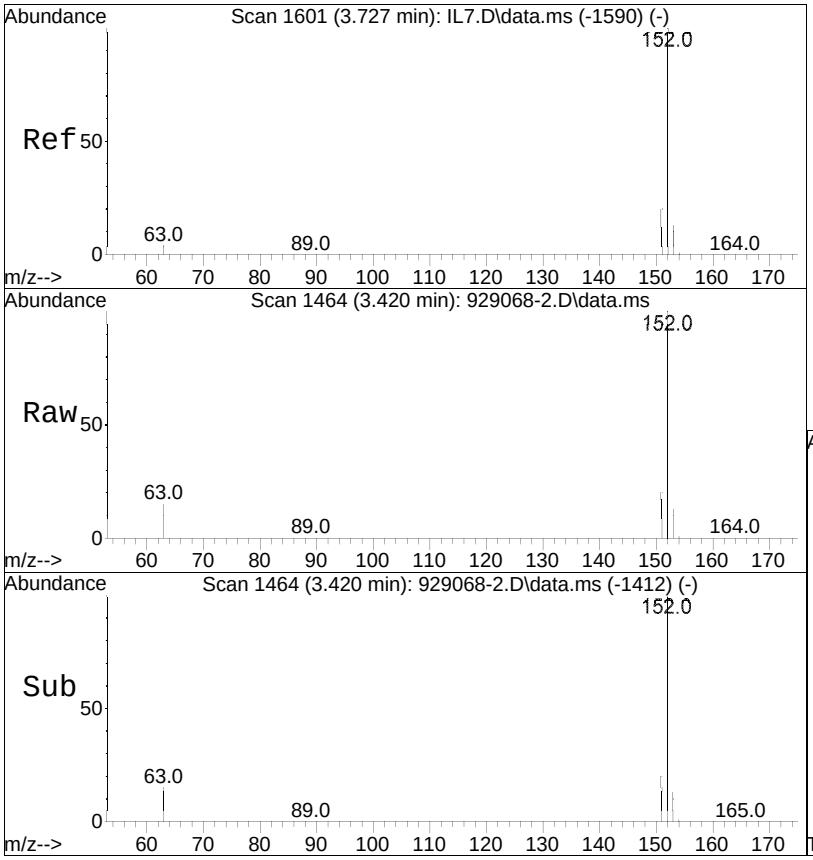


#14
2-Chloronaphthalene
Concen: 3590.20 ng/ml
RT: 3.195 min Scan# 1347
Delta R.T. 0.002 min
Lab File: 929068-2.D
Acq: 04 Jun 2024 09:57 am

Tgt Ion:162 Resp: 116393

Ion	Ratio	Lower	Upper
162	100		
127	42.0	29.7	44.5

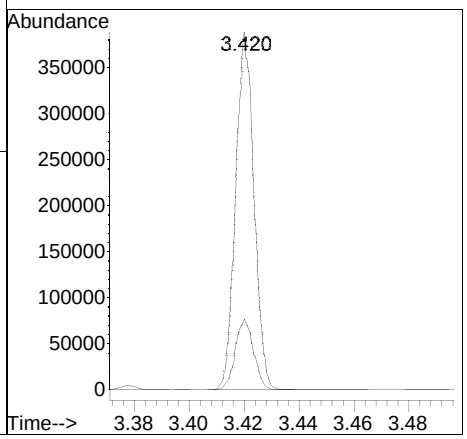


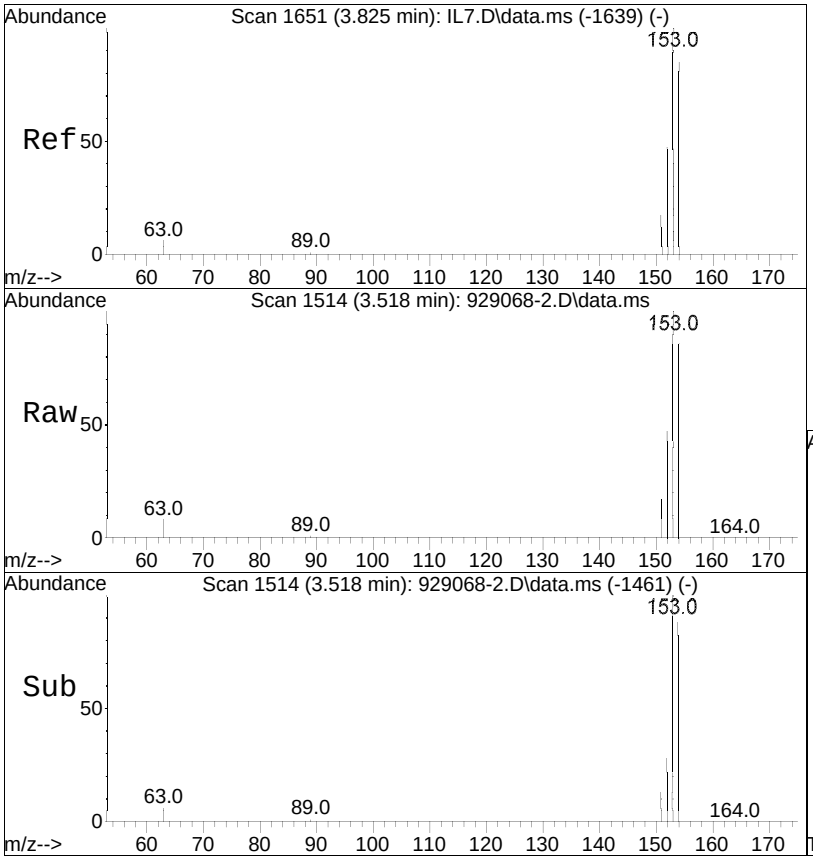


#16
Acenaphthylene
Concen: 3688.76 ng/ml
RT: 3.420 min Scan# 1464
Delta R.T. 0.002 min
Lab File: 929068-2.D
Acq: 04 Jun 2024 09:57 am

Tgt Ion:152 Resp: 177715

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.0	24.0

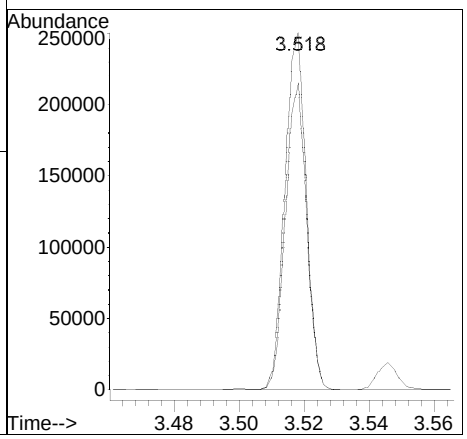


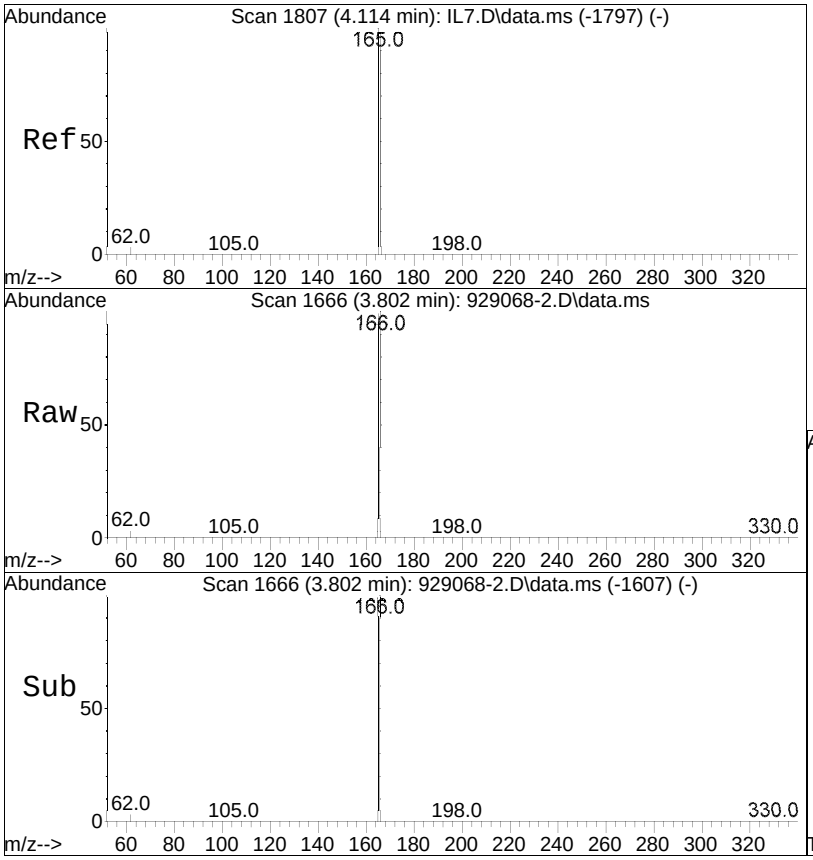


#18
Acenaphthene
Concen: 4132.53 ng/ml
RT: 3.518 min Scan# 1514
Delta R.T. 0.004 min
Lab File: 929068-2.D
Acq: 04 Jun 2024 09:57 am

Tgt Ion:153 Resp: 112671

Ion	Ratio	Lower	Upper
153	100		
154	85.1	66.9	100.3

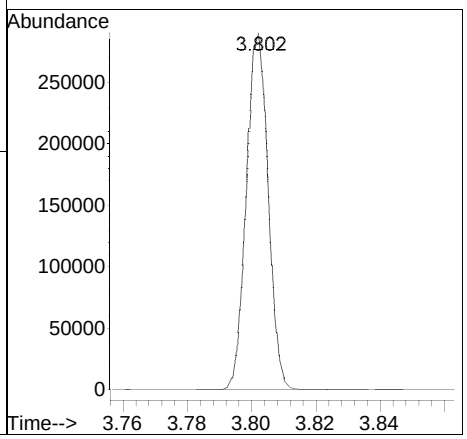


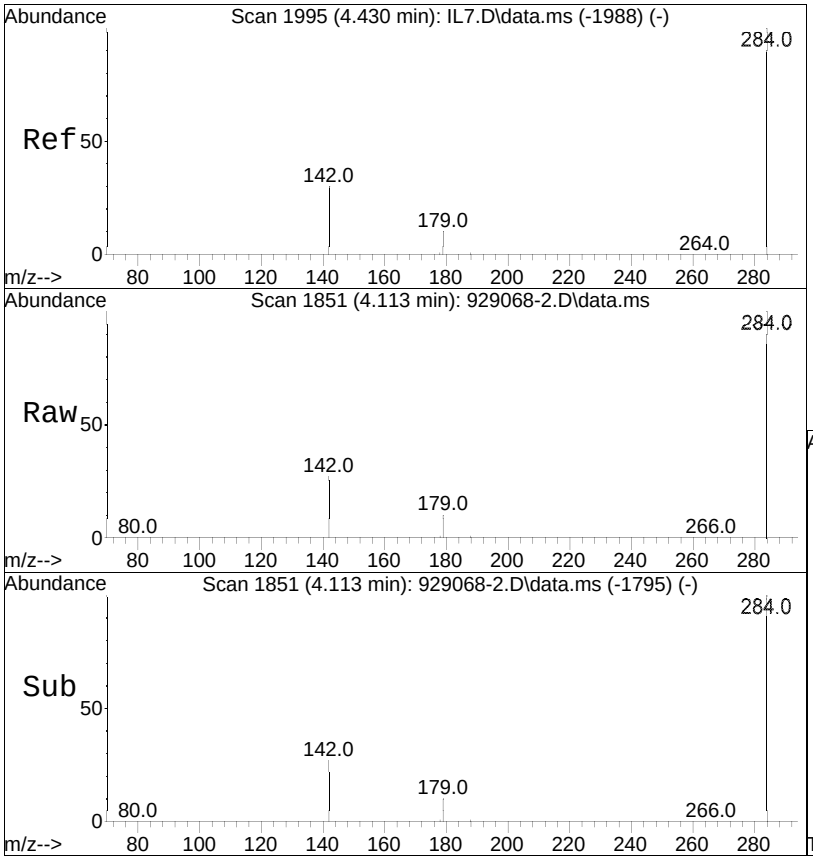


#20
Fluorene
Concen: 4183.97 ng/ml
RT: 3.802 min Scan# 1666
Delta R.T. 0.002 min
Lab File: 929068-2.D
Acq: 04 Jun 2024 09:57 am

Tgt Ion:166 Resp: 136353

Ion	Ratio	Lower	Upper
166	100		
165	100.4	82.9	124.3

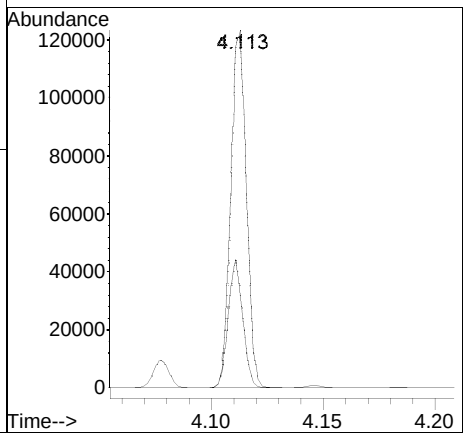


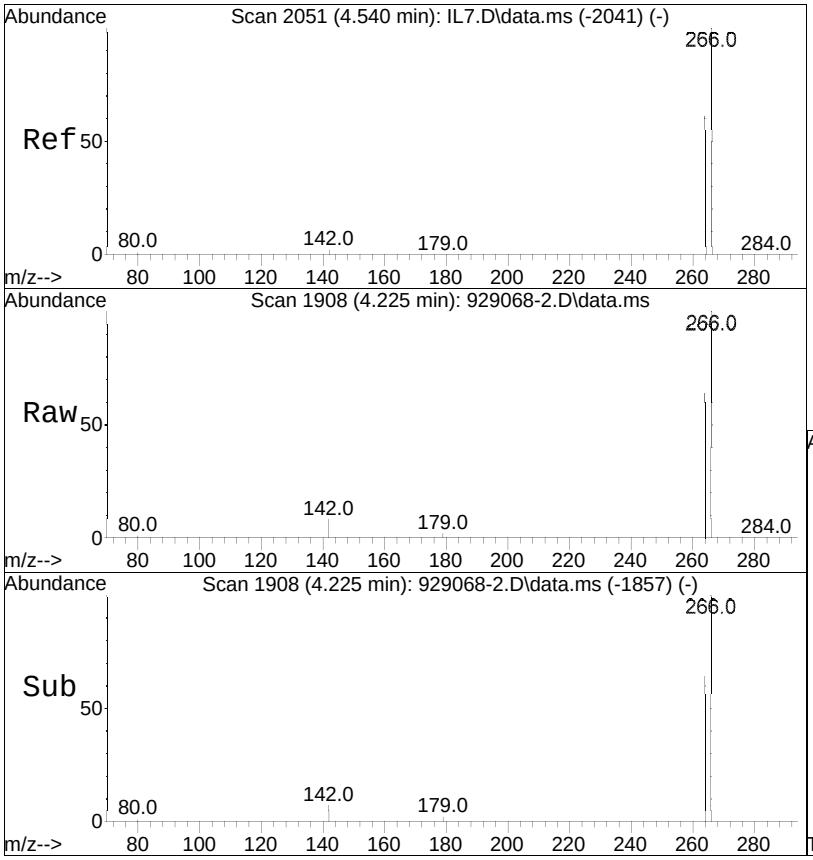


#24
Hexachlorobenzene
Concen: 4809.71 ng/ml
RT: 4.113 min Scan# 1851
Delta R.T. 0.002 min
Lab File: 929068-2.D
Acq: 04 Jun 2024 09:57 am

Tgt Ion:284 Resp: 58323

Ion	Ratio	Lower	Upper
284	100		
142	33.6	26.9	40.3

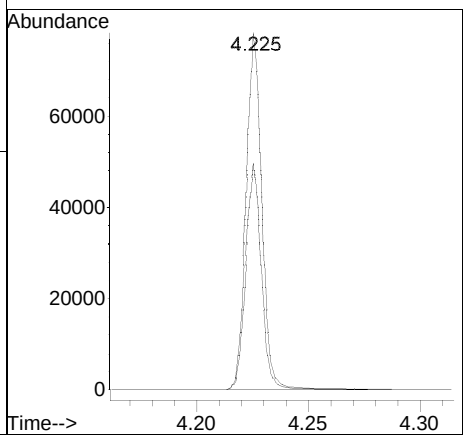


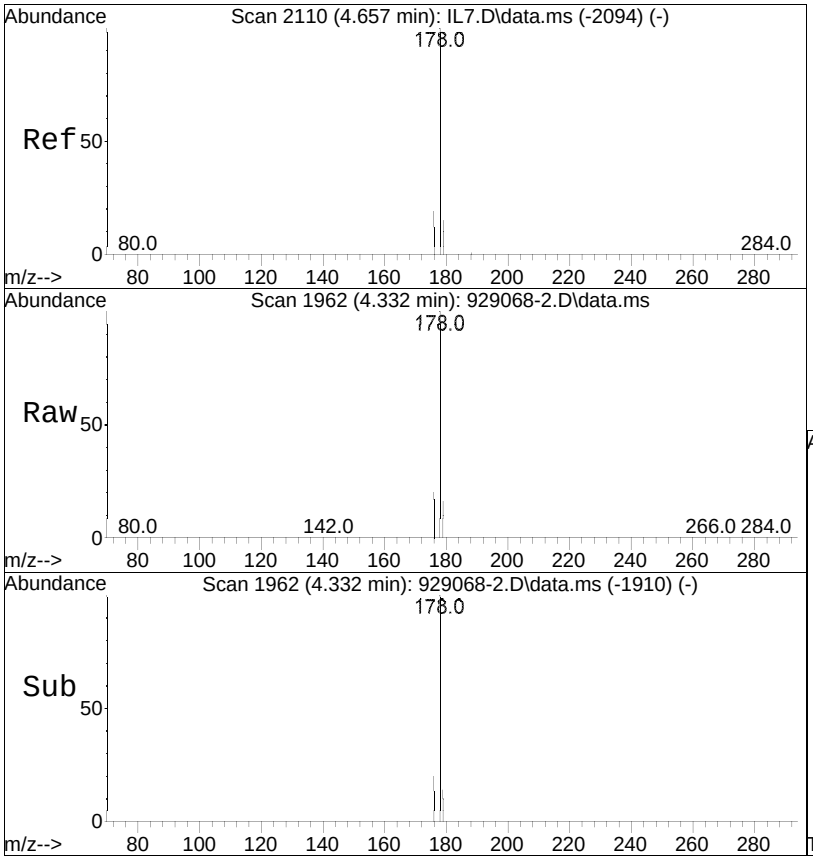


#25
Pentachlorophenol
Concen: 4882.52 ng/ml
RT: 4.225 min Scan# 1908
Delta R.T. -0.000 min
Lab File: 929068-2.D
Acq: 04 Jun 2024 09:57 am

Tgt Ion:266 Resp: 37805

Ion	Ratio	Lower	Upper
266	100		
264	63.3	50.7	76.1

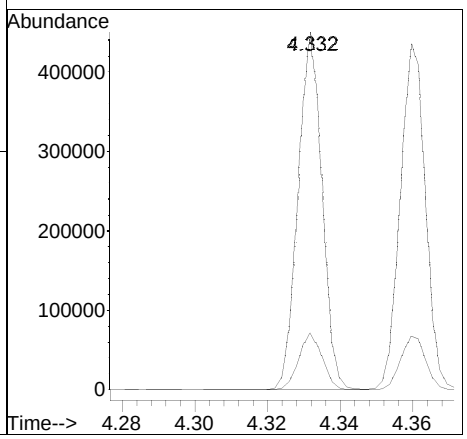


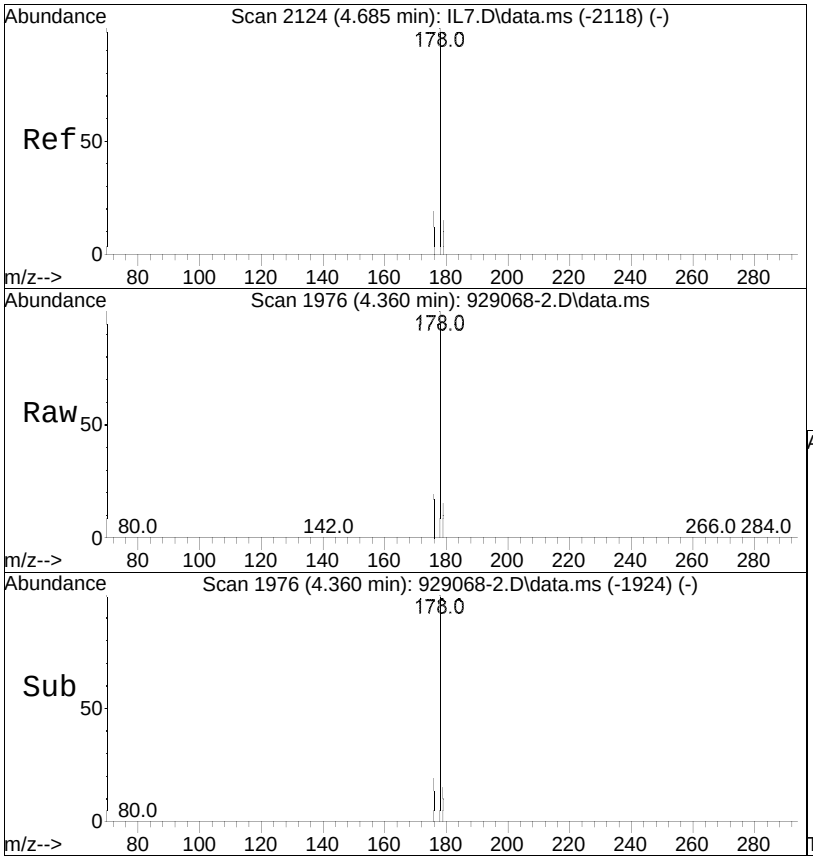


#26
Phenanthrene
Concen: 4340.59 ng/ml
RT: 4.332 min Scan# 1962
Delta R.T. 0.002 min
Lab File: 929068-2.D
Acq: 04 Jun 2024 09:57 am

Tgt Ion:178 Resp: 206814

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.3	18.5

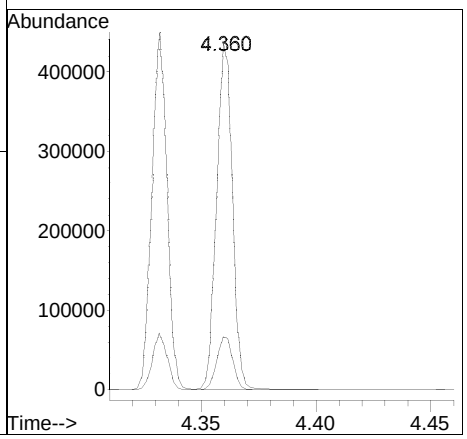


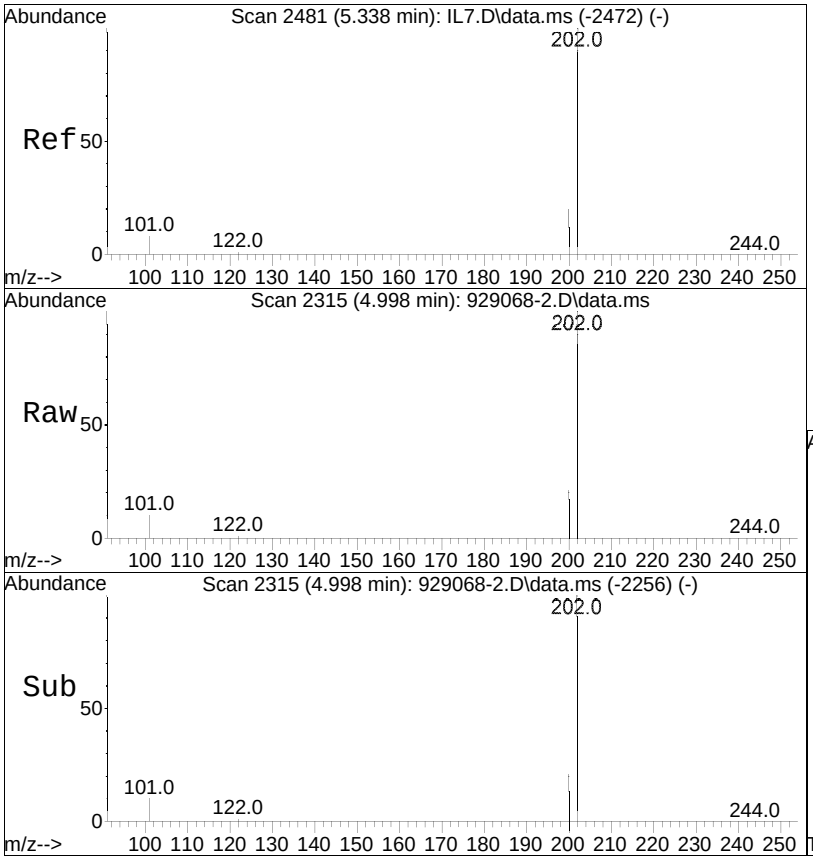


#27
Anthracene
Concen: 4457.97 ng/ml
RT: 4.360 min Scan# 1976
Delta R.T. 0.002 min
Lab File: 929068-2.D
Acq: 04 Jun 2024 09:57 am

Tgt Ion:178 Resp: 210636

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.4

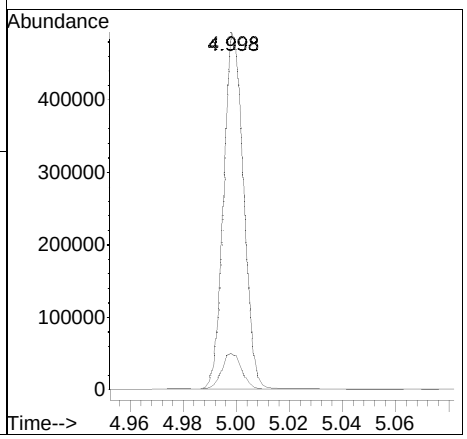


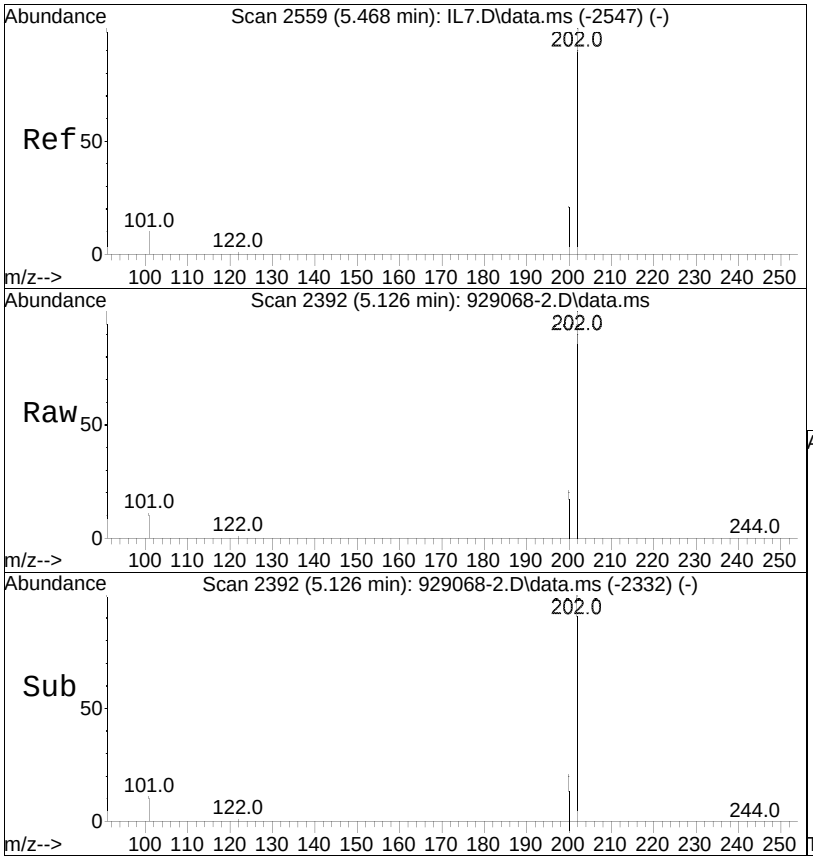


#28
Fluoranthene
Concen: 4041.34 ng/ml
RT: 4.998 min Scan# 2315
Delta R.T. -0.002 min
Lab File: 929068-2.D
Acq: 04 Jun 2024 09:57 am

Tgt Ion:202 Resp: 253781

Ion	Ratio	Lower	Upper
202	100		
101	10.4	8.3	12.5

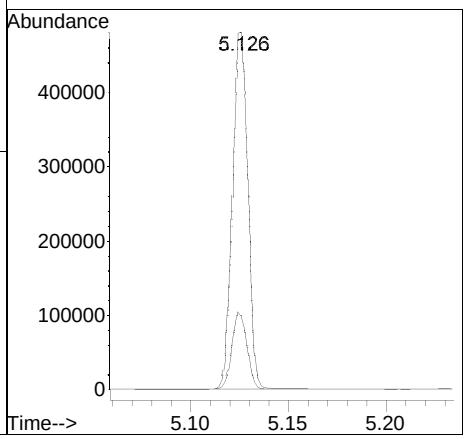


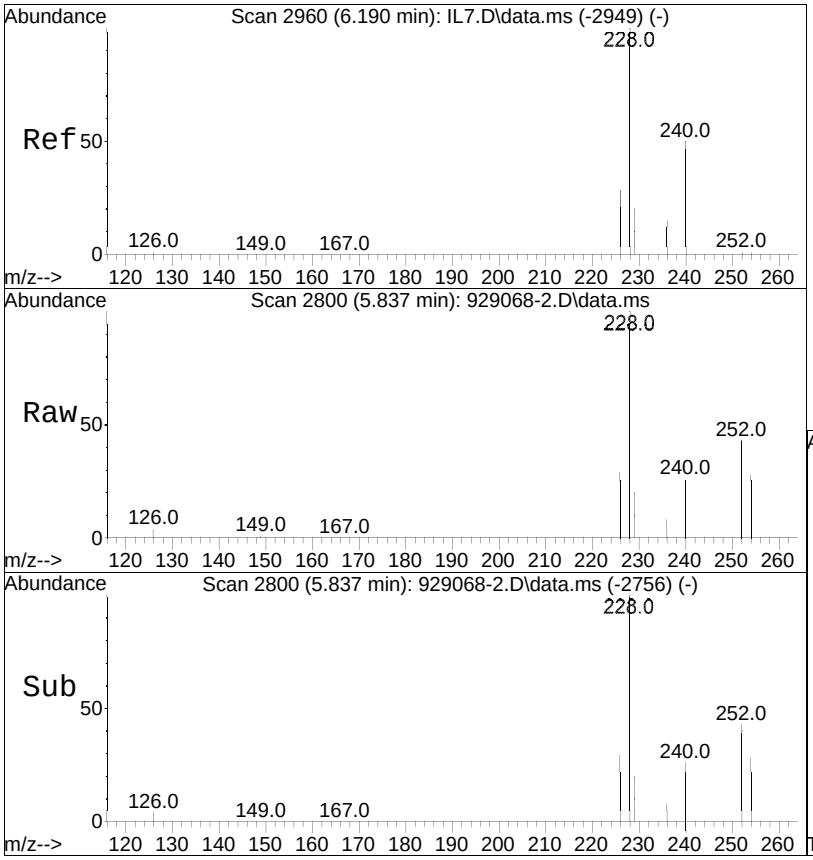


#29
Pyrene
Concen: 4010.31 ng/ml
RT: 5.126 min Scan# 2392
Delta R.T. -0.000 min
Lab File: 929068-2.D
Acq: 04 Jun 2024 09:57 am

Tgt Ion:202 Resp: 258721

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.3	25.9

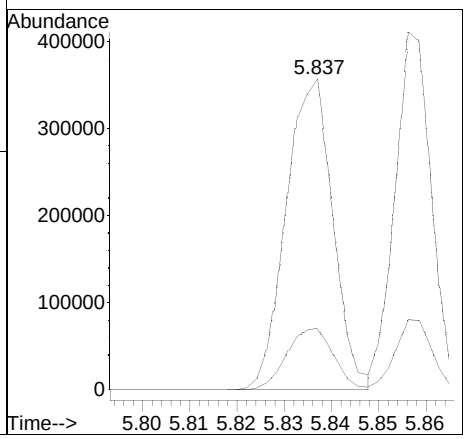


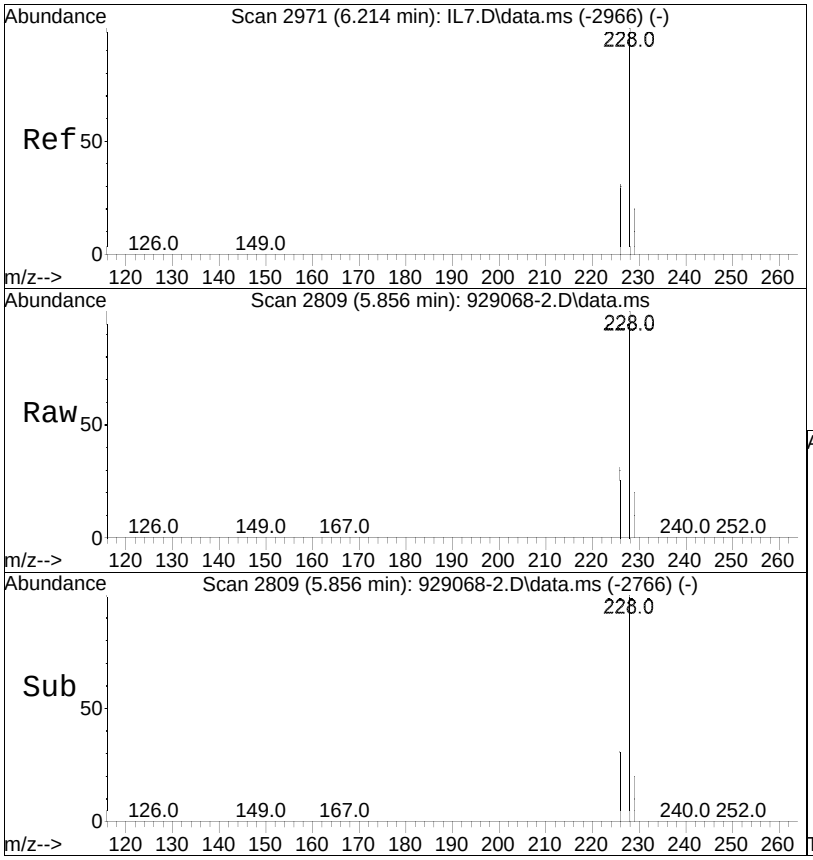


#32
Benzo[a]anthracene
Concen: 5026.47 ng/ml
RT: 5.837 min Scan# 2800
Delta R.T. -0.006 min
Lab File: 929068-2.D
Acq: 04 Jun 2024 09:57 am

Tgt Ion:228 Resp: 244959

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.6	23.4

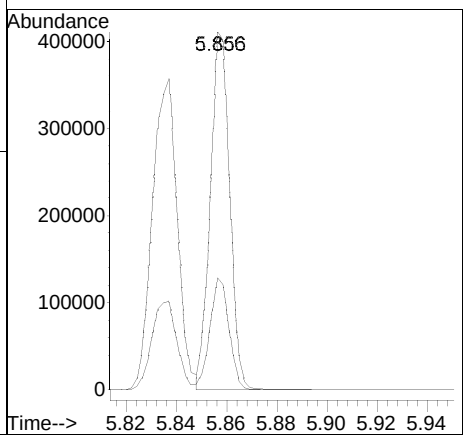


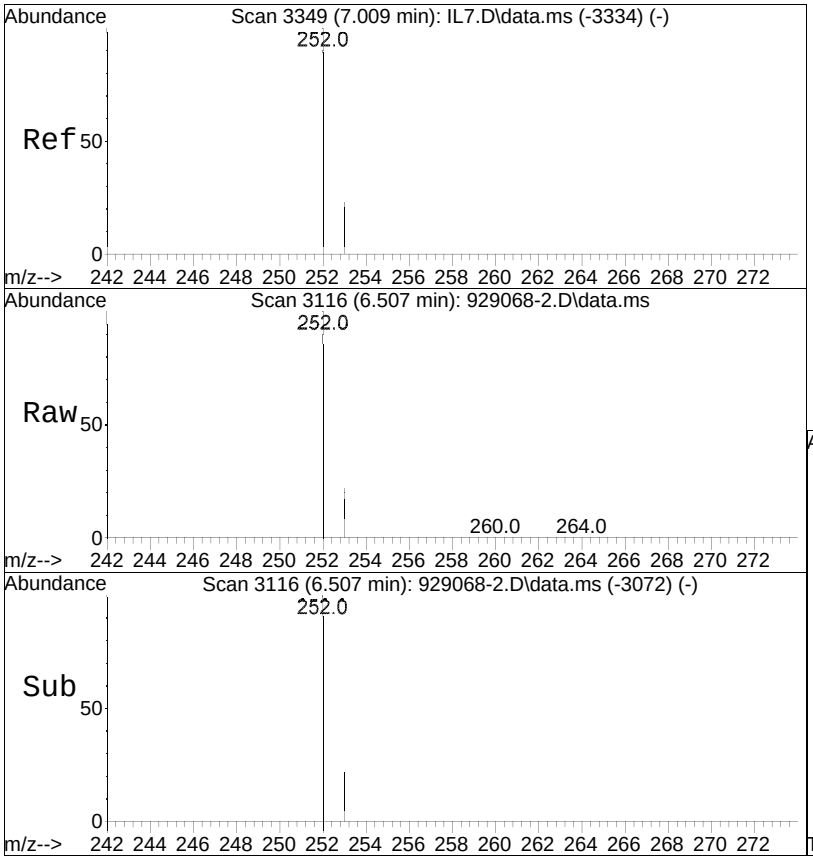


#34
Chrysene
Concen: 4545.80 ng/ml
RT: 5.856 min Scan# 2809
Delta R.T. -0.009 min
Lab File: 929068-2.D
Acq: 04 Jun 2024 09:57 am

Tgt Ion:228 Resp: 219867

Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.5	36.7

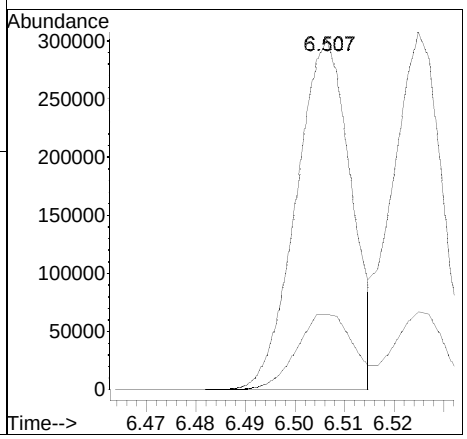


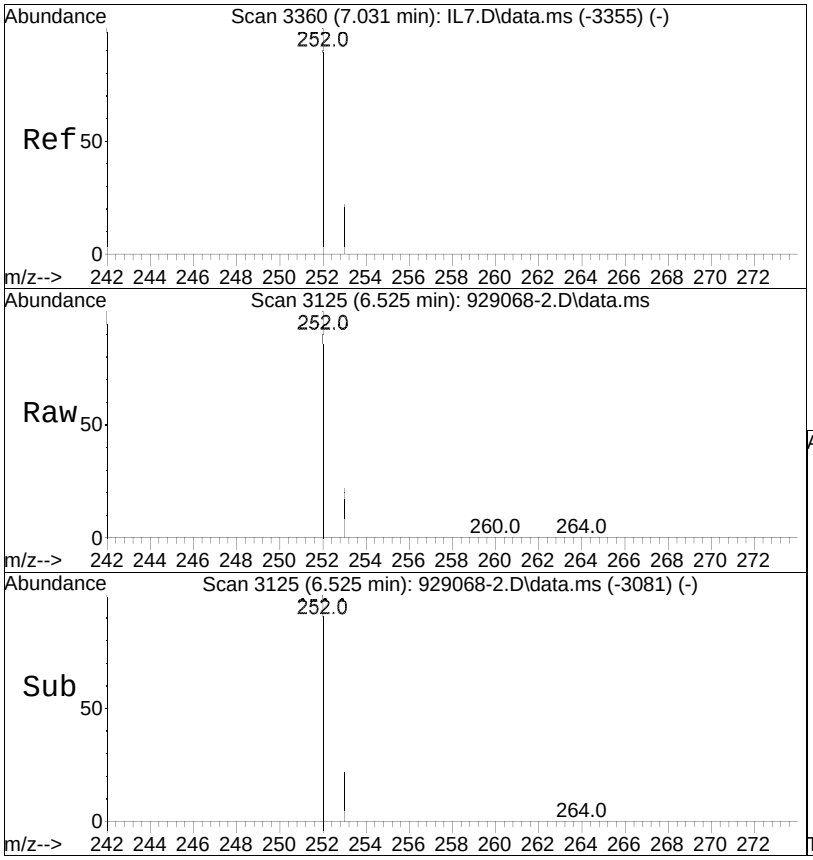


#37
Benzo[b]fluoranthene
Concen: 4123.52 ng/ml
RT: 6.507 min Scan# 3116
Delta R.T. -0.010 min
Lab File: 929068-2.D
Acq: 04 Jun 2024 09:57 am

Tgt Ion:252 Resp: 232133

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.3	25.9

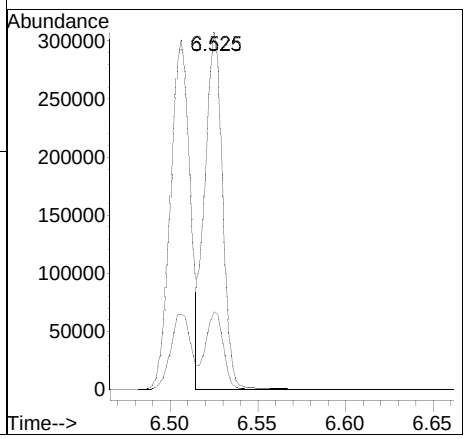


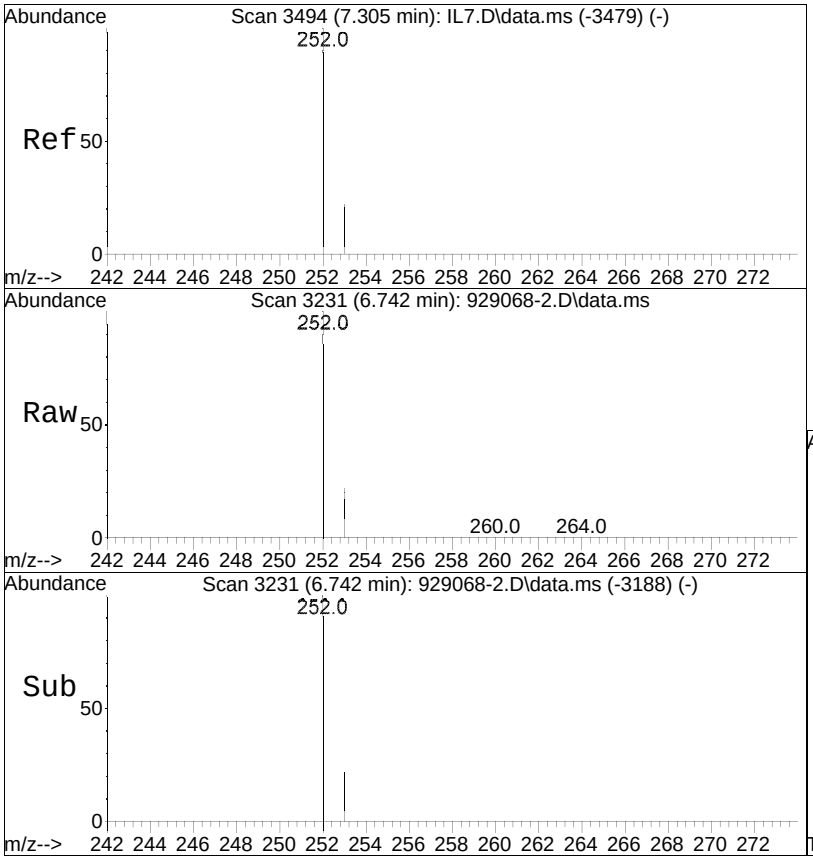


#38
Benzo[k]fluoranthene
Concen: 4029.12 ng/ml
RT: 6.525 min Scan# 3125
Delta R.T. -0.010 min
Lab File: 929068-2.D
Acq: 04 Jun 2024 09:57 am

Tgt Ion:252 Resp: 215378

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.4	26.2

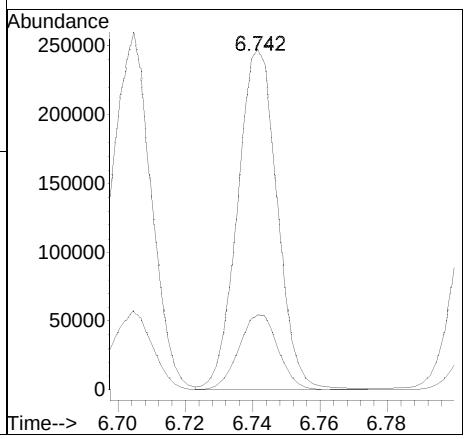


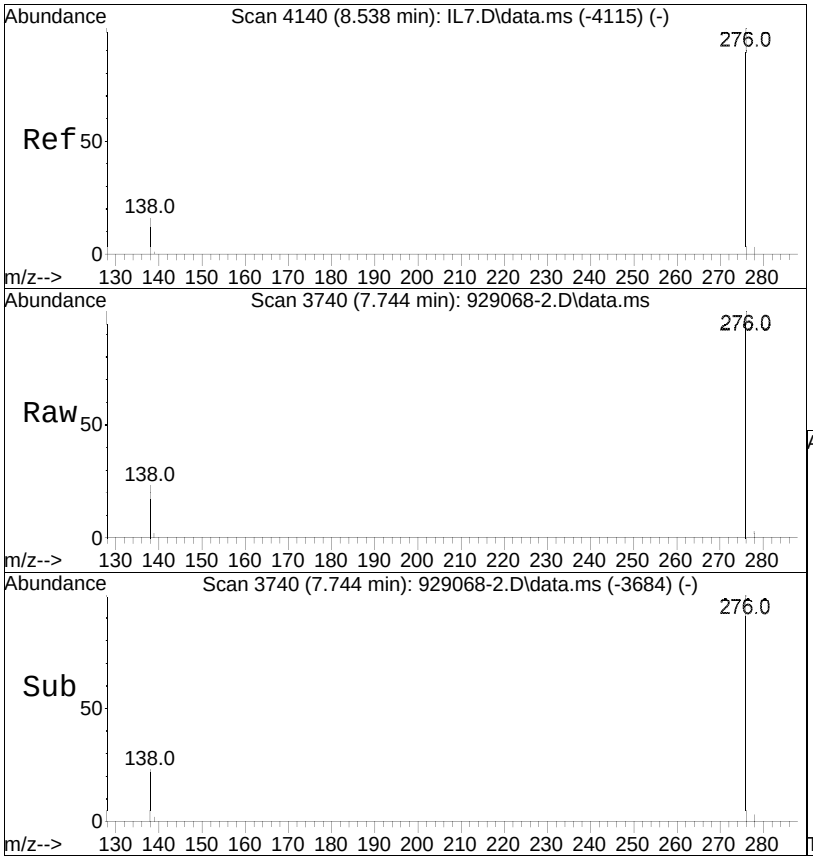


#39
Benzo[a]pyrene
Concen: 4056.85 ng/ml
RT: 6.742 min Scan# 3231
Delta R.T. -0.012 min
Lab File: 929068-2.D
Acq: 04 Jun 2024 09:57 am

Tgt Ion:252 Resp: 201024

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.0

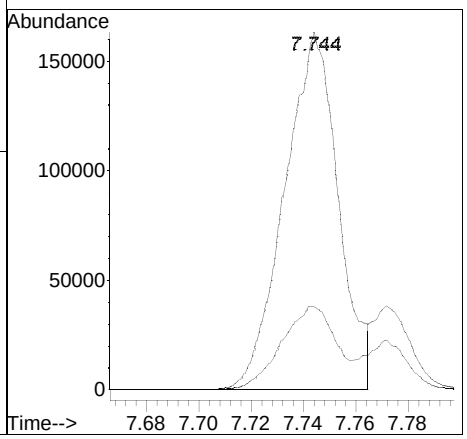


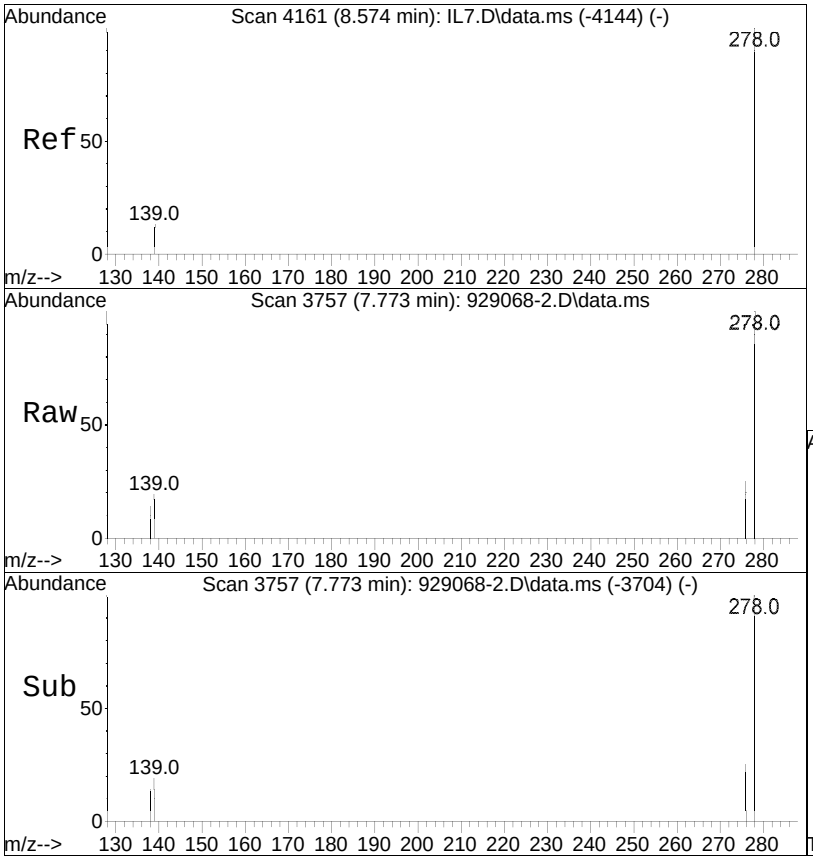


#40
Indeno[1,2,3-cd]pyrene
Concen: 4292.05 ng/ml
RT: 7.744 min Scan# 3740
Delta R.T. -0.003 min
Lab File: 929068-2.D
Acq: 04 Jun 2024 09:57 am

Tgt Ion:276 Resp: 231145

Ion	Ratio	Lower	Upper
276	100		
138	23.3	14.8	22.2#

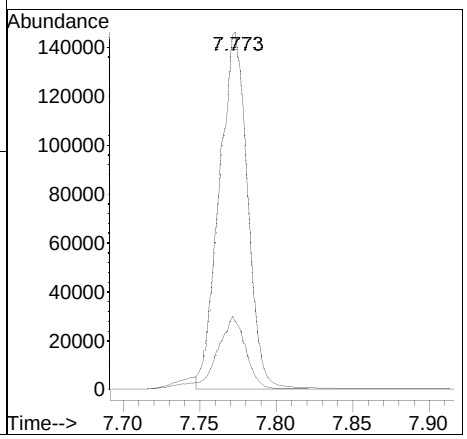


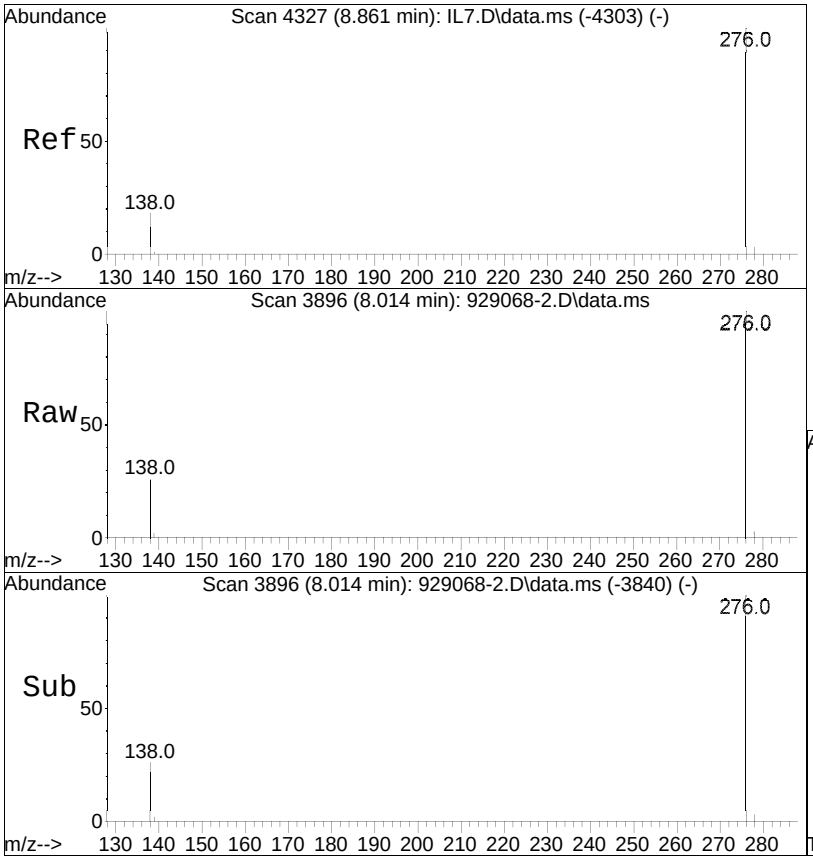


#41
Dibenzo[a,h]anthracene
Concen: 3727.97 ng/ml M6
RT: 7.773 min Scan# 3757
Delta R.T. -0.009 min
Lab File: 929068-2.D
Acq: 04 Jun 2024 09:57 am

Tgt Ion:278 Resp: 186793

Ion	Ratio	Lower	Upper
278	100		
139	21.3	12.2	18.4#

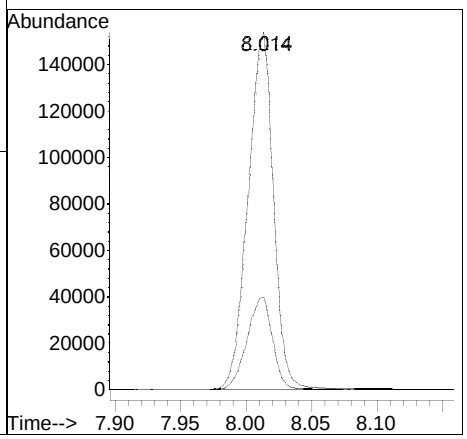




#42
Benzo[g,h,i]perylene
Concen: 3737.83 ng/ml
RT: 8.014 min Scan# 3896
Delta R.T. -0.003 min
Lab File: 929068-2.D
Acq: 04 Jun 2024 09:57 am

Tgt Ion:276 Resp: 204759

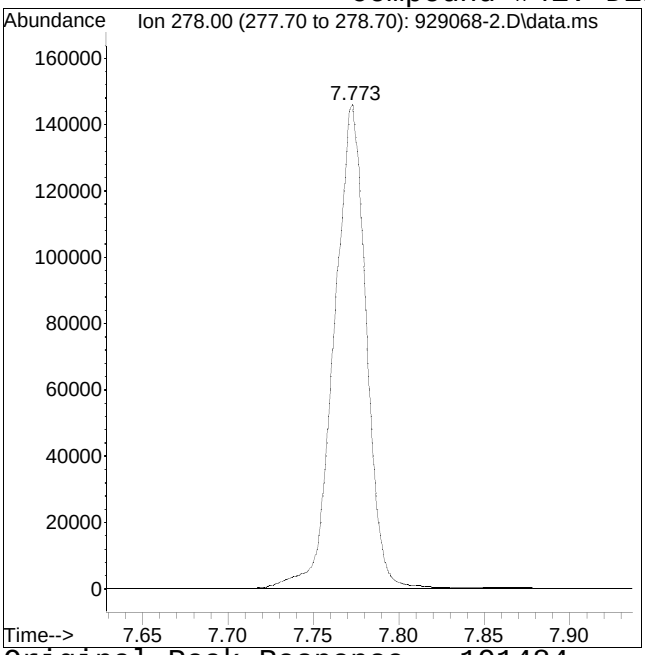
Ion	Ratio	Lower	Upper
276	100		
138	26.1	16.8	25.2#



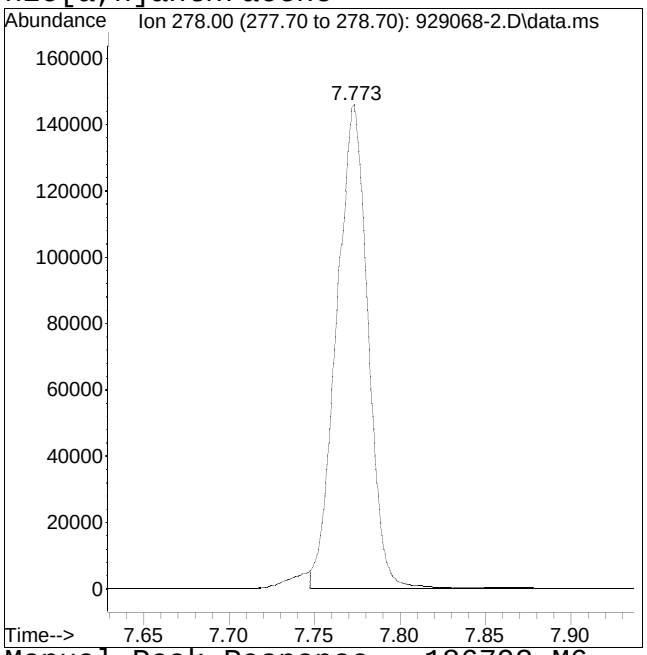
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 929068-2.D Operator : sv119:rp
Date Inj'd : 6/4/2024 9:57 am Instrument : SV119
Sample : WG1929068-2,32,,ah Quant Date : 6/4/2024 10:12 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 191484



Manual Peak Response = 186793 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 929068-3.D
Acq On : 04 Jun 2024 10:14 am
Operator : sv119:rp
Sample : WG1929068-3,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 14:55:22 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240604LVI\ccv0604.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.909	152	53203	4000.000	ng/ml	0.00
Standard Area 1 = 56492			Recovery = 94.18%			
8) Naphthalene-d8	2.552	136	182004	4000.000	ng/ml	0.00
Standard Area 1 = 186100			Recovery = 97.80%			
17) Acenaphthene-d10	3.500	164	93249	4000.000	ng/ml	0.00
Standard Area 1 = 98337			Recovery = 94.83%			
22) Phenanthrene-d10	4.320	188	199714	4000.000	ng/ml	0.00
Standard Area 1 = 215749			Recovery = 92.57%			
31) Chrysene-d12	5.841	240	155620	4000.000	ng/ml	0.00
Standard Area 1 = 188074			Recovery = 82.74%			
36) Perylene-d12	6.787	264	174062	4000.000	ng/ml	-0.01
Standard Area 1 = 198758			Recovery = 87.57%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.345	112	52809	3629.009	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 72.58%			
3) Phenol-d6	1.744	99	56837	3258.391	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 65.17%			
7) Nitrobenzene-d5	2.185	82	31708	2396.413	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 95.86%			
13) 2-Fluorobiphenyl	3.139	172	75583	1859.428	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 74.38%			
21) 2,4,6-Tribromophenol	3.938	330	32333	6289.285	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 125.79%#			
30) 4-Terphenyl-d14	5.231	244	79442	1622.620	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 64.90%			
Target Compounds						Qvalue
6) Hexachloroethane	2.156	117	25559	3883.420	ng/ml	89
9) Naphthalene	2.562	128	172449	3968.093	ng/ml	100
10) Hexachlorobutadiene	2.637	225	39432	4213.168	ng/ml	100
11) 2-Methylnaphthalene	2.933	142	125506	3905.827	ng/ml	96
14) 2-Chloronaphthalene	3.197	162	132675	3876.181	ng/ml	91
16) Acenaphthylene	3.420	152	199006	3912.422	ng/ml	100
18) Acenaphthene	3.518	153	128026	4441.118	ng/ml	98
20) Fluorene	3.802	166	152813	4434.801	ng/ml	97
24) Hexachlorobenzene	4.113	284	65508	5073.798	ng/ml	99
25) Pentachlorophenol	4.225	266	43329	5254.841	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 929068-3.D
Acq On : 04 Jun 2024 10:14 am
Operator : sv119:rp
Sample : WG1929068-3,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 14:55:22 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240604LVI\ccv0604.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.332	178	231778	4568.780	ng/ml	99
27) Anthracene	4.360	178	236586	4702.758	ng/ml	100
28) Fluoranthene	5.000	202	284511	4255.251	ng/ml	100
29) Pyrene	5.126	202	290701	4232.066	ng/ml	100
32) Benzo[a]anthracene	5.835	228	274010	5295.462	ng/ml	100
34) Chrysene	5.856	228	251270	4892.283	ng/ml	99
37) Benzo[b]fluoranthene	6.505	252	273627	4499.734	ng/ml	99
38) Benzo[k]fluoranthene	6.523	252	240097	4158.072	ng/ml	99
39) Benzo[a]pyrene	6.739	252	230974	4315.202	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	7.740	276	260302	4474.599	ng/ml#	89
41) Dibenzo[a,h]anthracene	7.772	278	213712M6	3948.552	ng/ml	
42) Benzo[g,h,i]perylene	8.010	276	234378	3960.862	ng/ml#	90

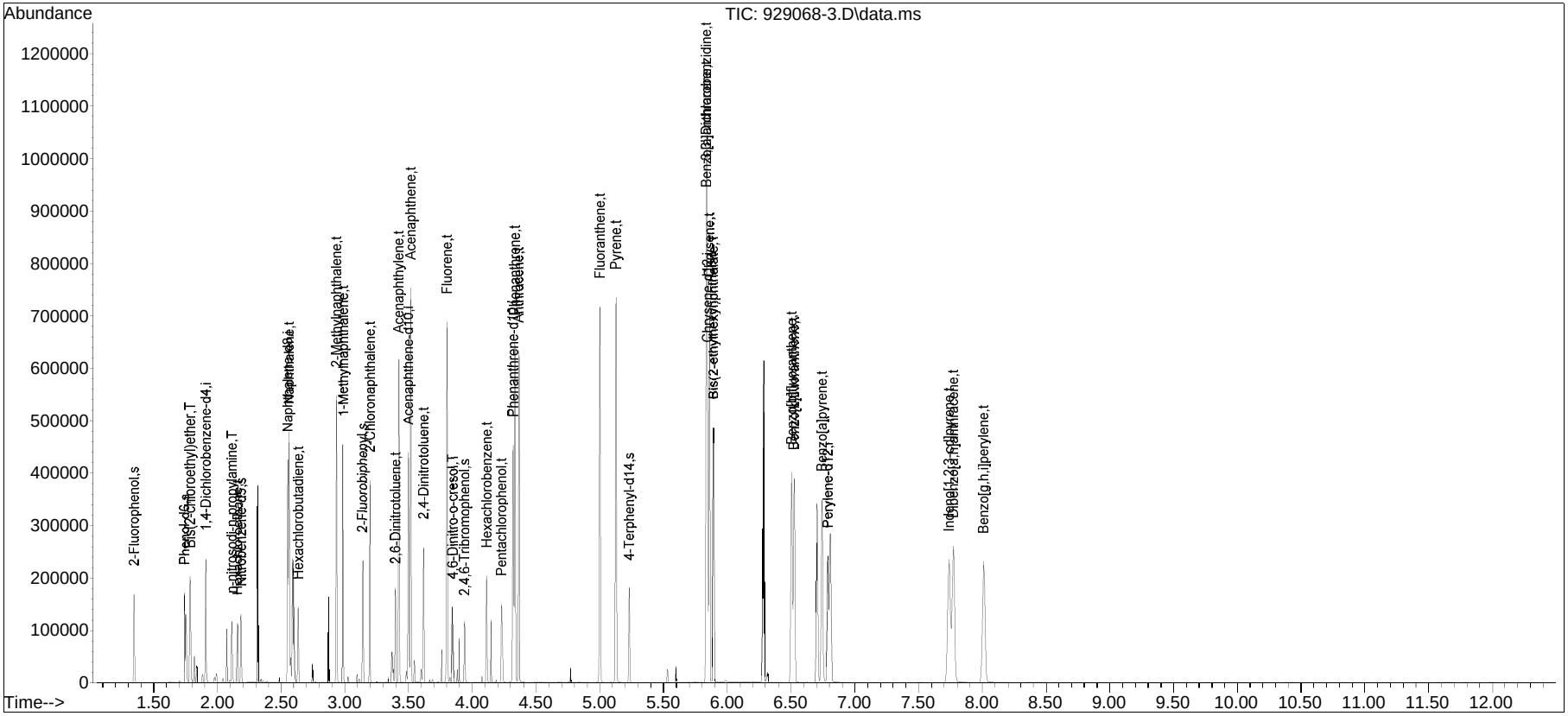
(#) = qualifier out of range (m) = manual integration (+) = signals summed

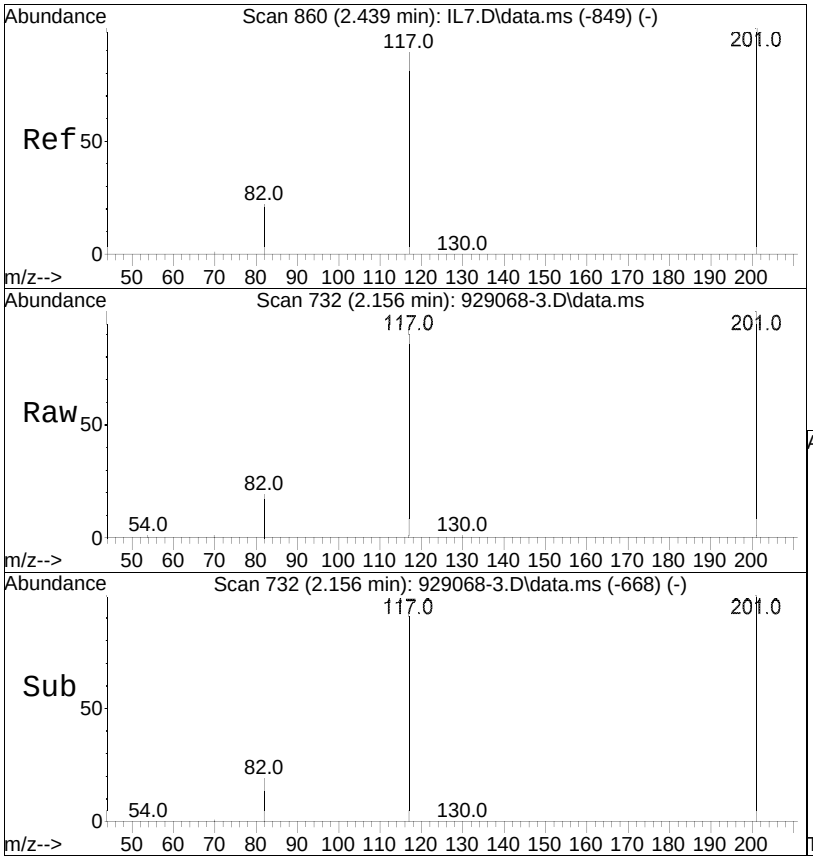
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 929068-3.D
Acq On : 04 Jun 2024 10:14 am
Operator : sv119:rp
Sample : WG1929068-3,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 14:55:22 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0604.D•

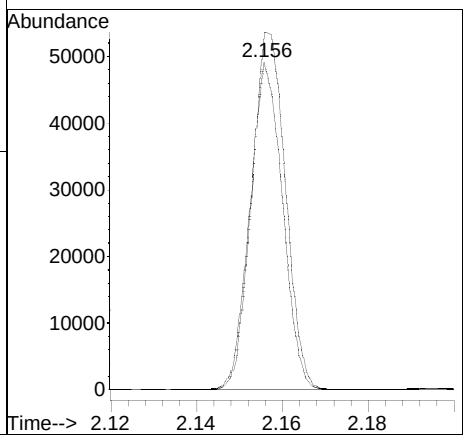


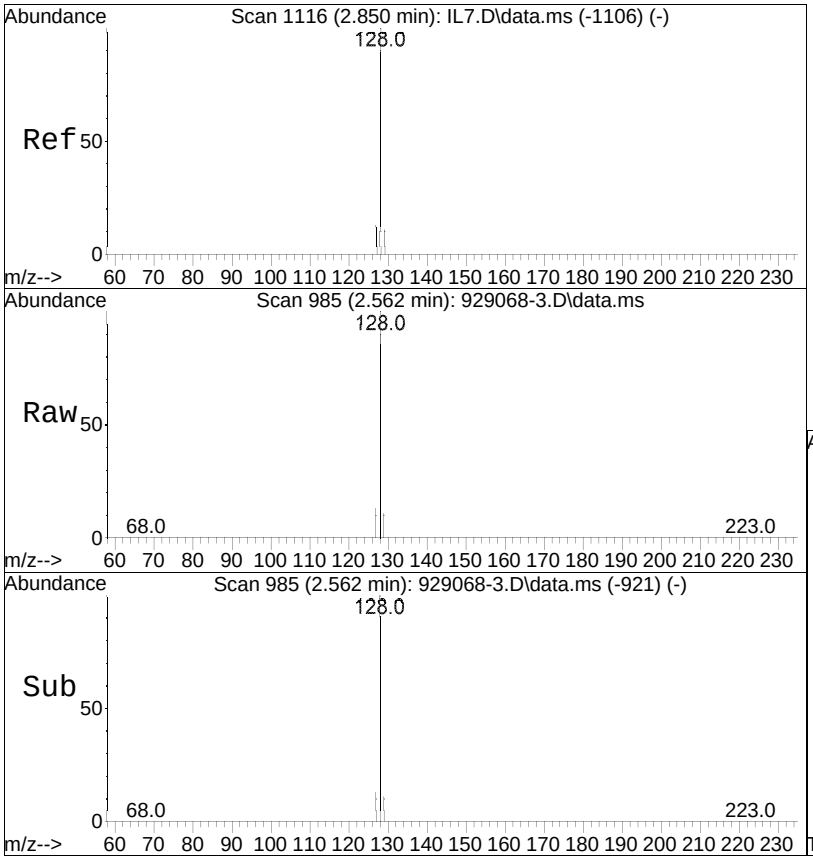


#6
Hexachloroethane
Concen: 3883.42 ng/ml
RT: 2.156 min Scan# 732
Delta R.T. 0.003 min
Lab File: 929068-3.D
Acq: 04 Jun 2024 10:14 am

Tgt Ion:117 Resp: 25559

Ion	Ratio	Lower	Upper
117	100		
201	112.8	81.5	122.3

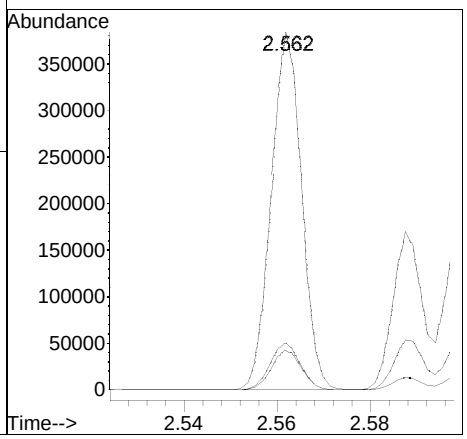


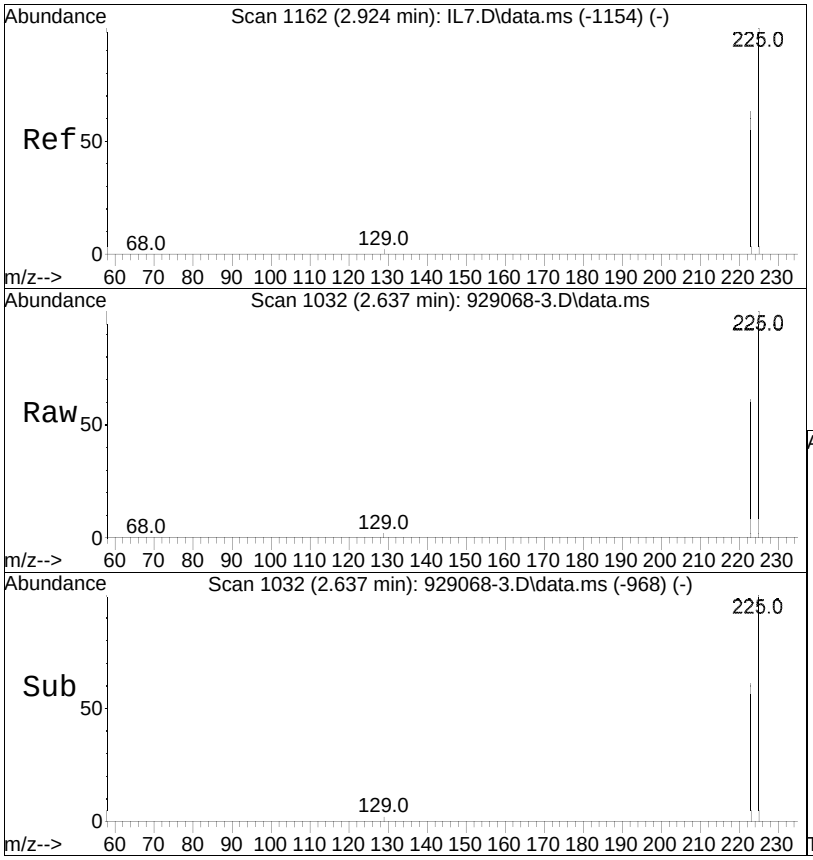


#9
Naphthalene
Concen: 3968.09 ng/ml
RT: 2.562 min Scan# 985
Delta R.T. 0.003 min
Lab File: 929068-3.D
Acq: 04 Jun 2024 10:14 am

Tgt Ion:128 Resp: 172449

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	13.0	10.6	15.8

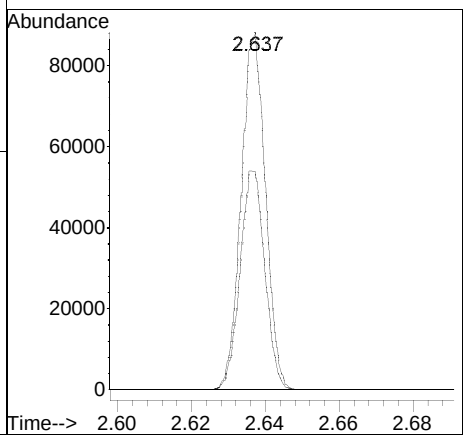


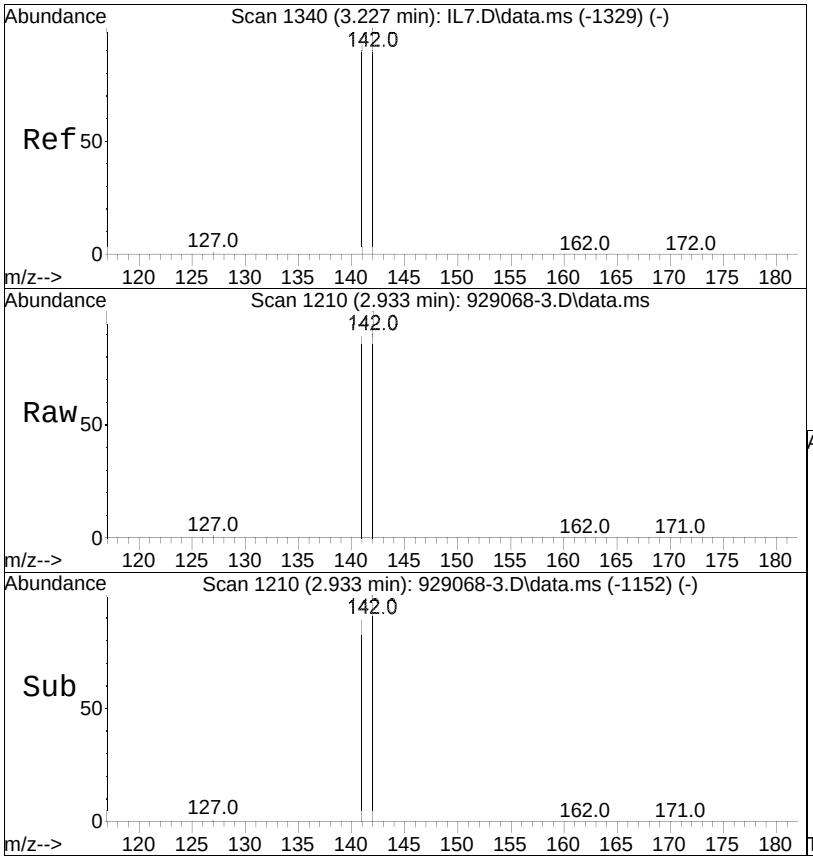


#10
Hexachlorobutadiene
Concen: 4213.17 ng/ml
RT: 2.637 min Scan# 1032
Delta R.T. 0.003 min
Lab File: 929068-3.D
Acq: 04 Jun 2024 10:14 am

Tgt Ion:225 Resp: 39432

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.1	75.1

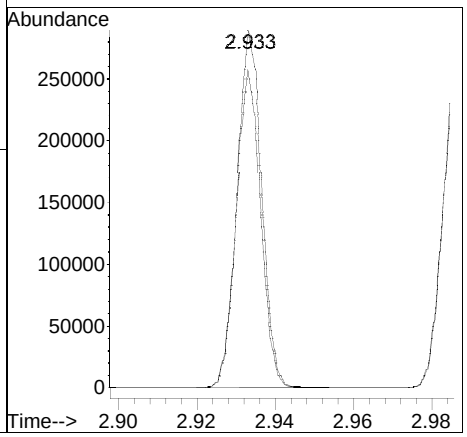


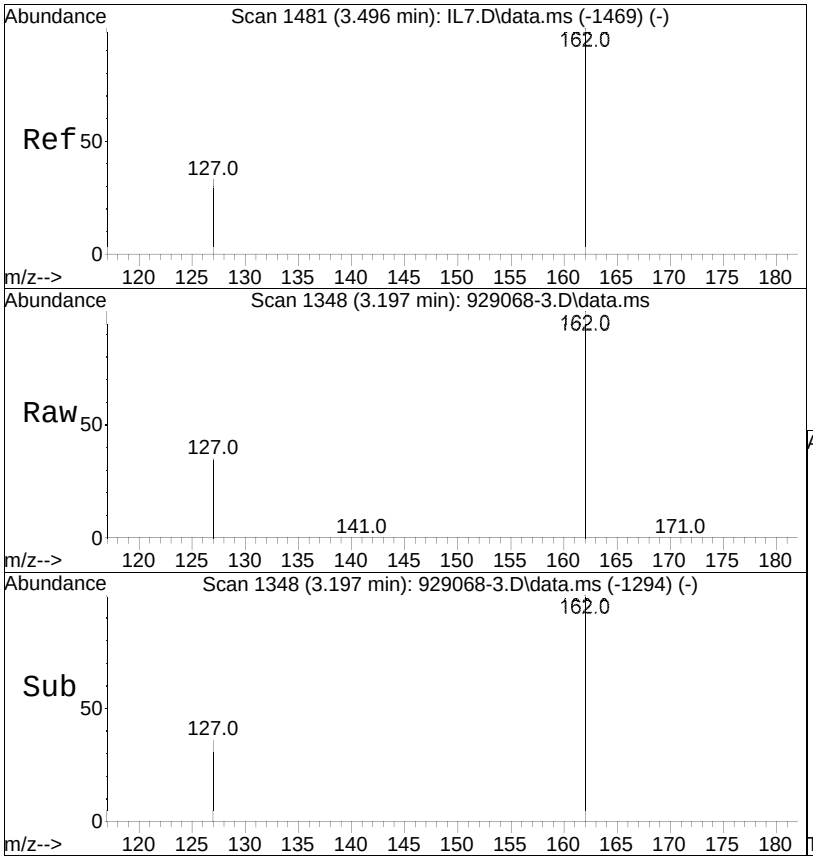


#11
2-Methylnaphthalene
Concen: 3905.83 ng/ml
RT: 2.933 min Scan# 1210
Delta R.T. 0.004 min
Lab File: 929068-3.D
Acq: 04 Jun 2024 10:14 am

Tgt Ion:142 Resp: 125506

Ion	Ratio	Lower	Upper
142	100		
141	89.2	74.1	111.1

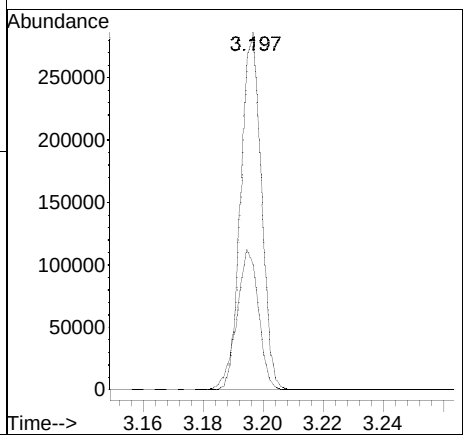


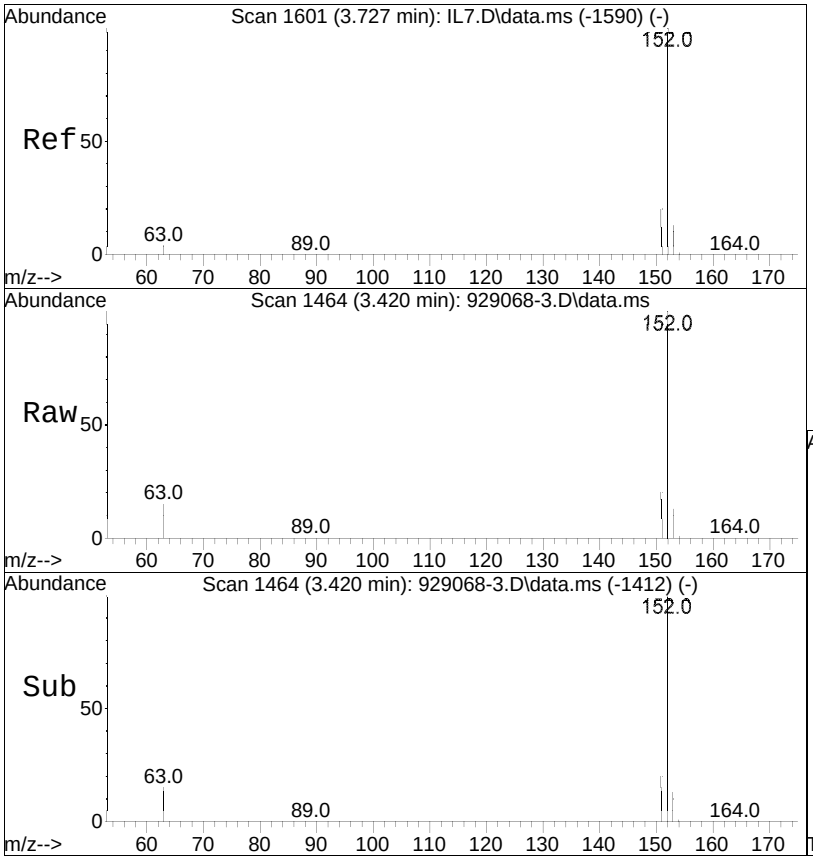


#14
2-Chloronaphthalene
Concen: 3876.18 ng/ml
RT: 3.197 min Scan# 1348
Delta R.T. 0.004 min
Lab File: 929068-3.D
Acq: 04 Jun 2024 10:14 am

Tgt Ion:162 Resp: 132675

Ion	Ratio	Lower	Upper
162	100		
127	42.2	29.7	44.5

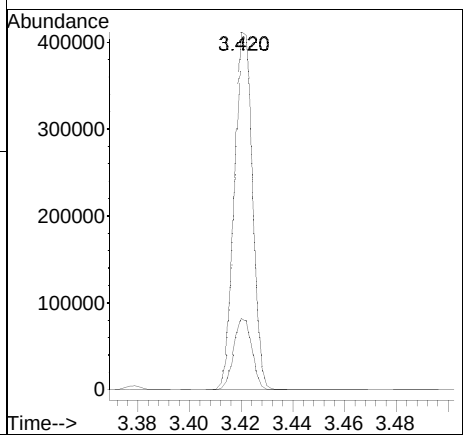


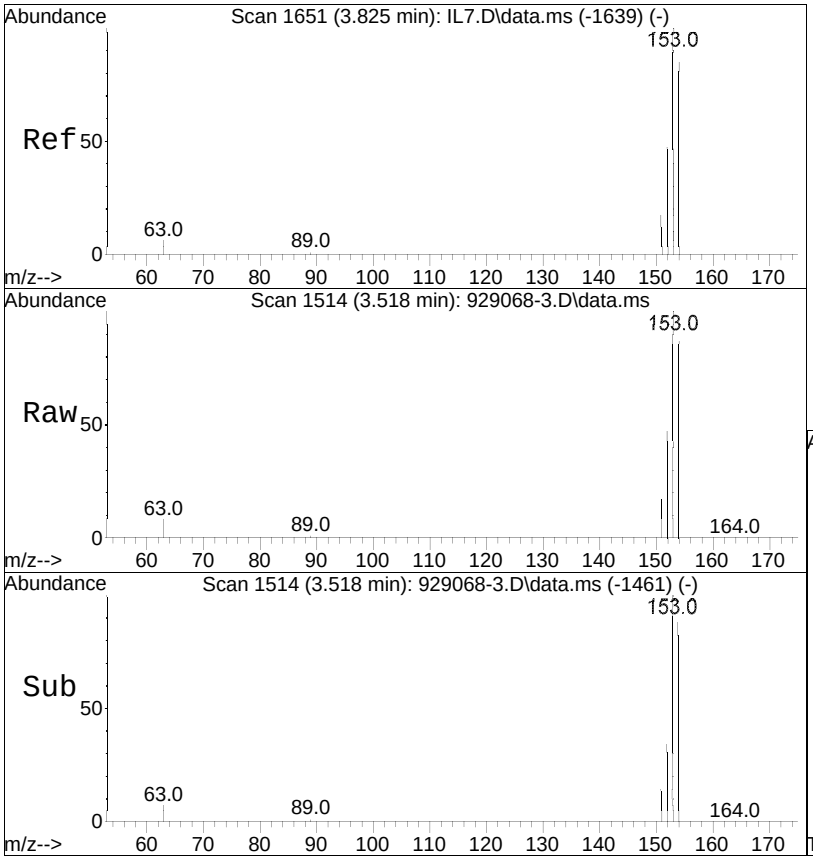


#16
Acenaphthylene
Concen: 3912.42 ng/ml
RT: 3.420 min Scan# 1464
Delta R.T. 0.002 min
Lab File: 929068-3.D
Acq: 04 Jun 2024 10:14 am

Tgt Ion:152 Resp: 199006

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.0	24.0

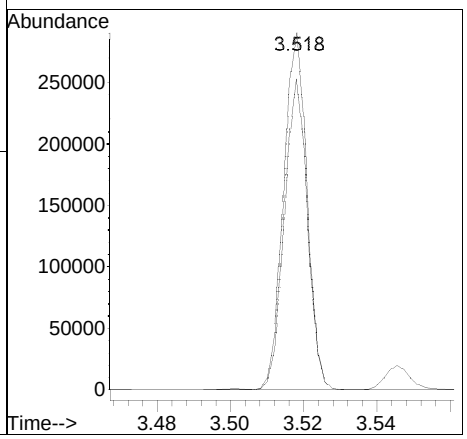


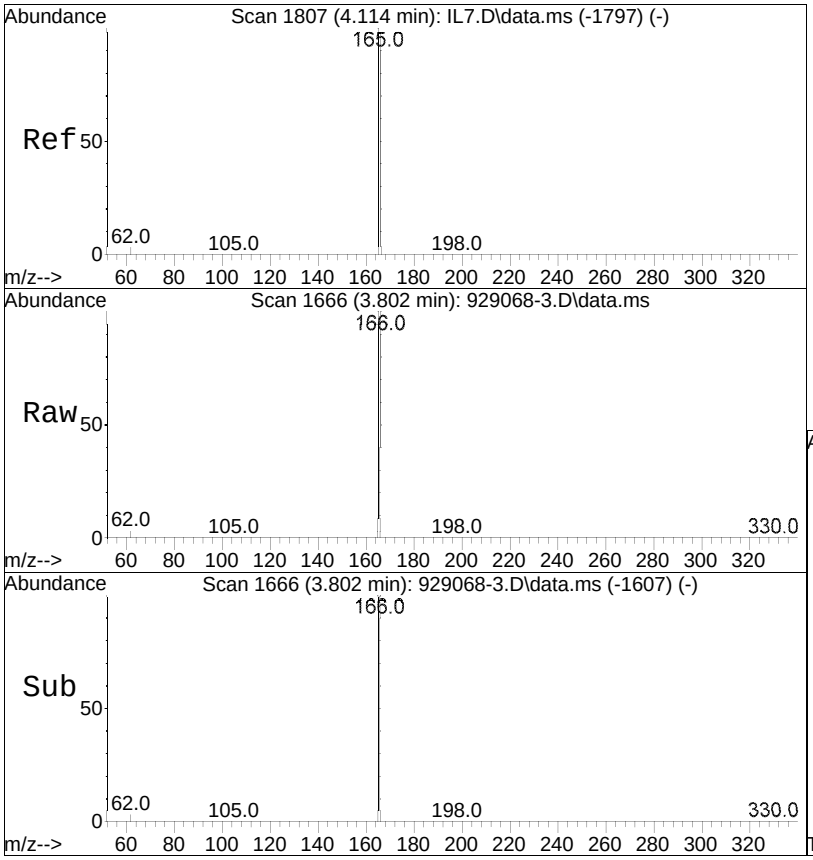


#18
Acenaphthene
Concen: 4441.12 ng/ml
RT: 3.518 min Scan# 1514
Delta R.T. 0.004 min
Lab File: 929068-3.D
Acq: 04 Jun 2024 10:14 am

Tgt Ion:153 Resp: 128026

Ion	Ratio	Lower	Upper
153	100		
154	85.5	66.9	100.3

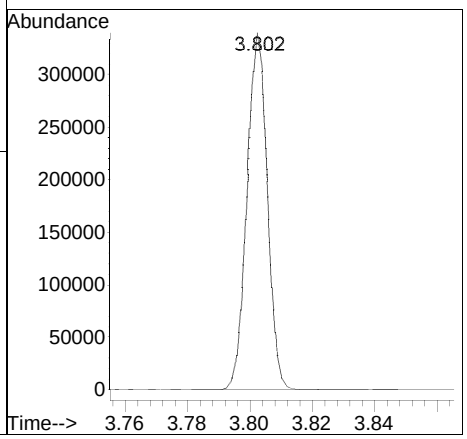


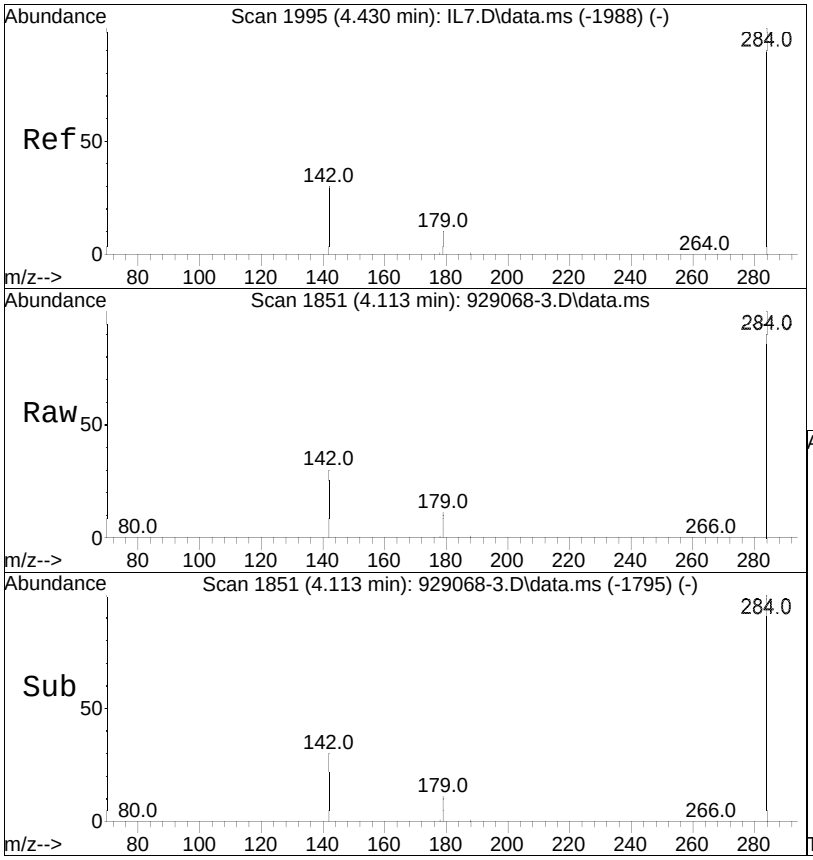


#20
Fluorene
Concen: 4434.80 ng/ml
RT: 3.802 min Scan# 1666
Delta R.T. 0.002 min
Lab File: 929068-3.D
Acq: 04 Jun 2024 10:14 am

Tgt Ion:166 Resp: 152813

Ion	Ratio	Lower	Upper
166	100		
165	100.6	82.9	124.3

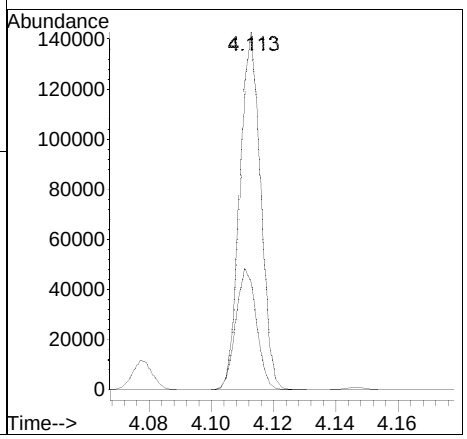


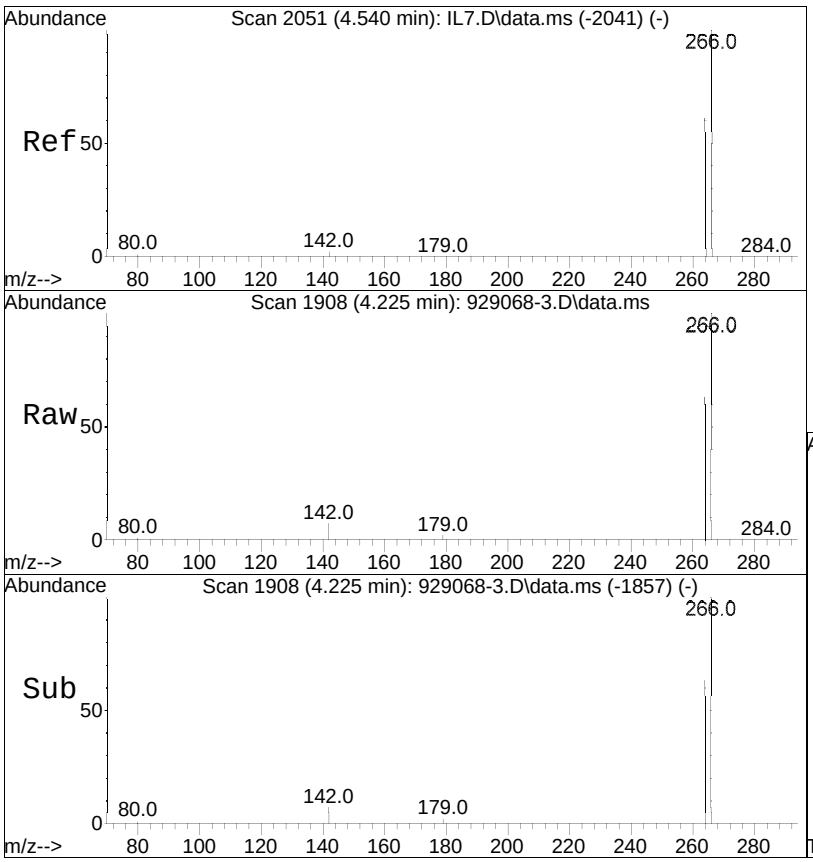


#24
Hexachlorobenzene
Concen: 5073.80 ng/ml
RT: 4.113 min Scan# 1851
Delta R.T. 0.002 min
Lab File: 929068-3.D
Acq: 04 Jun 2024 10:14 am

Tgt Ion:284 Resp: 65508

Ion	Ratio	Lower	Upper
284	100		
142	34.2	26.9	40.3

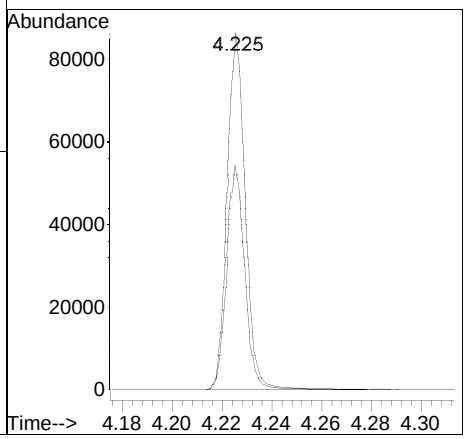


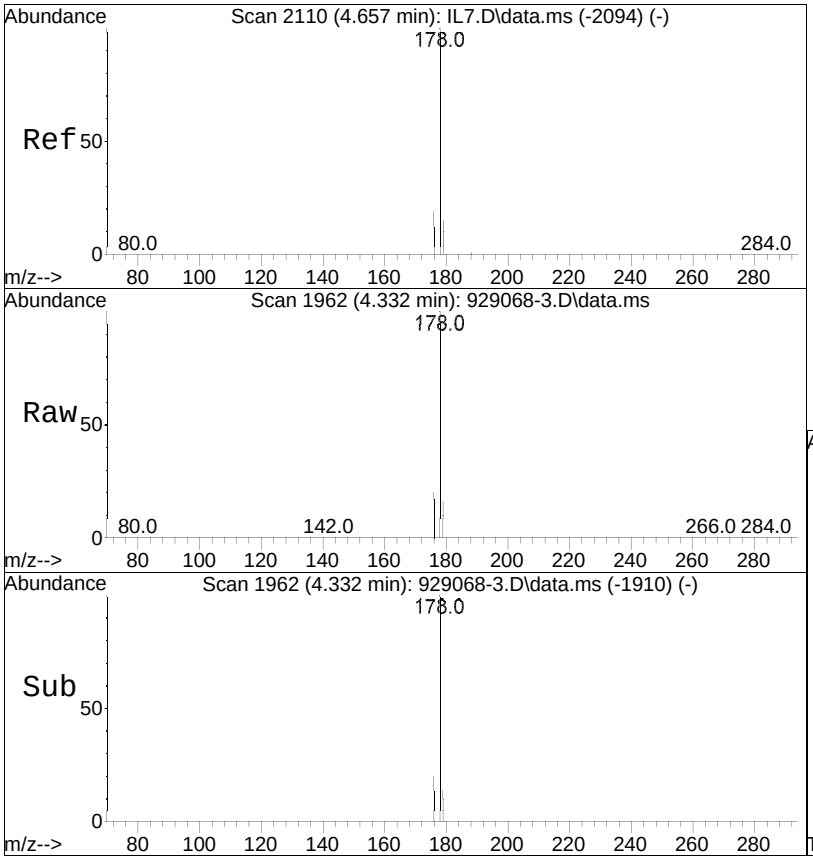


#25
Pentachlorophenol
Concen: 5254.84 ng/ml
RT: 4.225 min Scan# 1908
Delta R.T. -0.000 min
Lab File: 929068-3.D
Acq: 04 Jun 2024 10:14 am

Tgt Ion:266 Resp: 43329

Ion	Ratio	Lower	Upper
266	100		
264	63.1	50.7	76.1

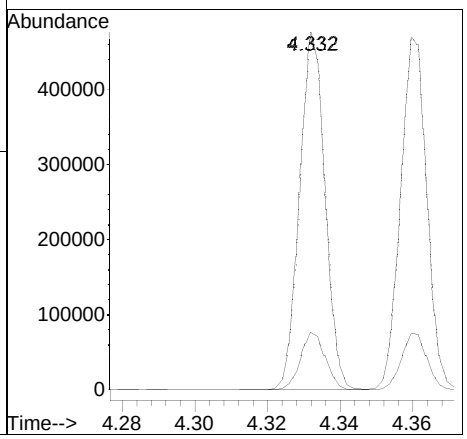


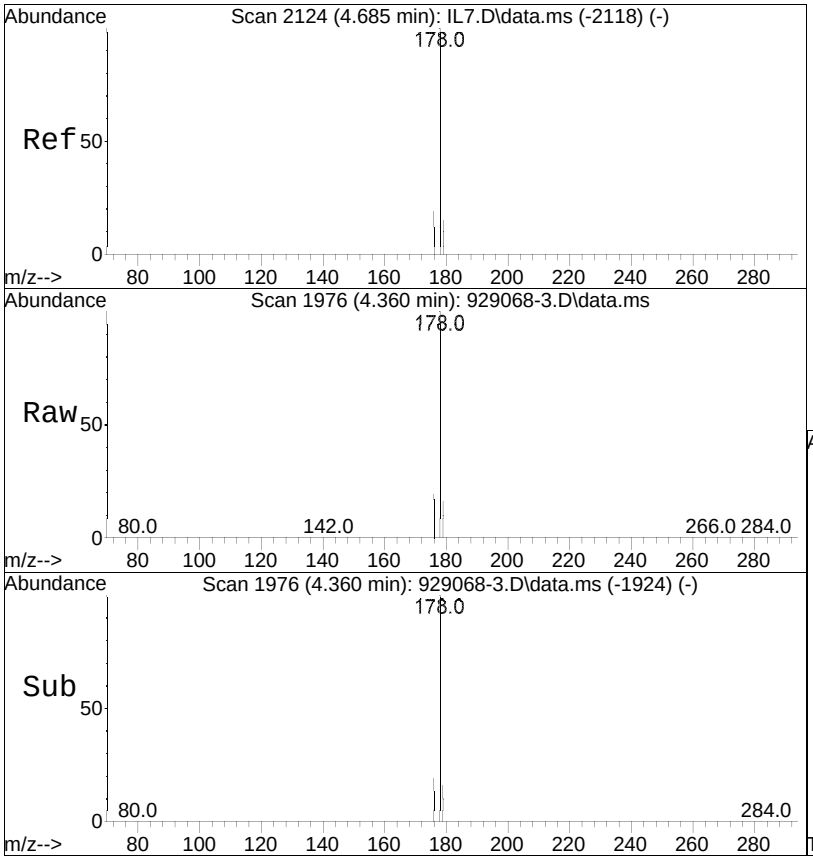


#26
Phenanthrene
Concen: 4568.78 ng/ml
RT: 4.332 min Scan# 1962
Delta R.T. 0.002 min
Lab File: 929068-3.D
Acq: 04 Jun 2024 10:14 am

Tgt Ion:178 Resp: 231778

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.3	18.5

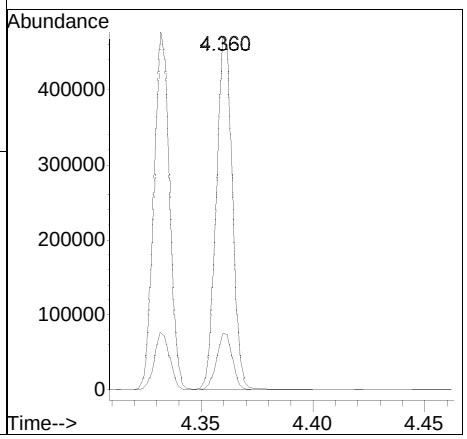


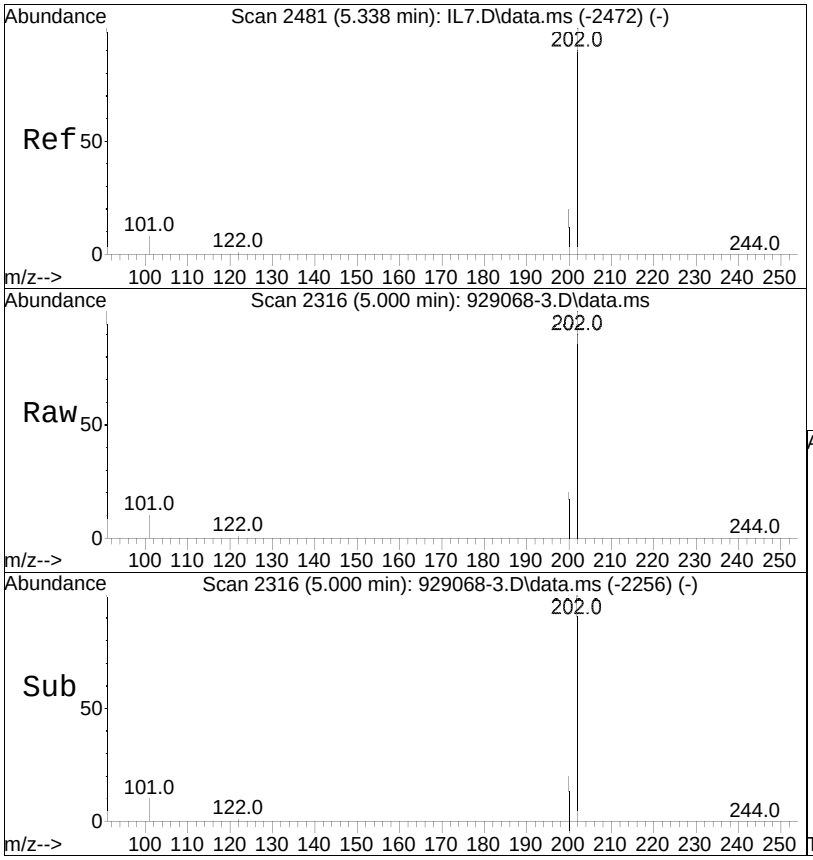


#27
Anthracene
Concen: 4702.76 ng/ml
RT: 4.360 min Scan# 1976
Delta R.T. 0.002 min
Lab File: 929068-3.D
Acq: 04 Jun 2024 10:14 am

Tgt Ion:178 Resp: 236586

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.2	18.4

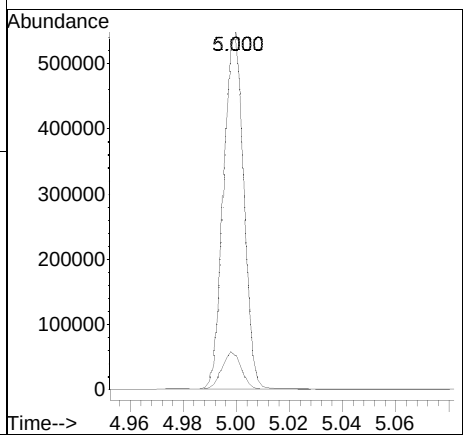


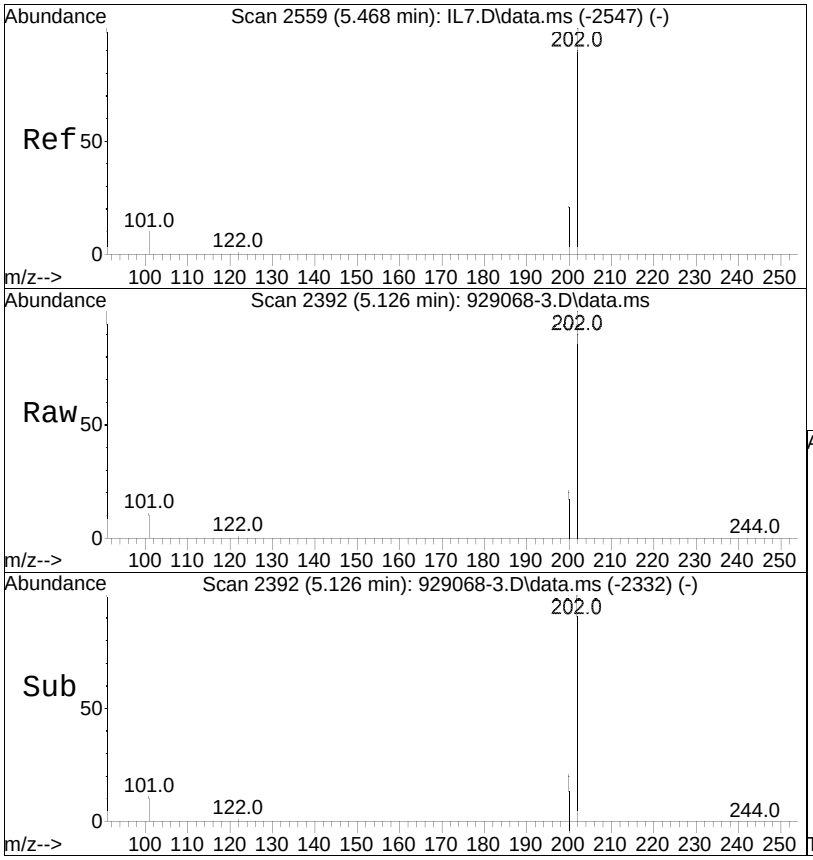


#28
Fluoranthene
Concen: 4255.25 ng/ml
RT: 5.000 min Scan# 2316
Delta R.T. -0.000 min
Lab File: 929068-3.D
Acq: 04 Jun 2024 10:14 am

Tgt Ion:202 Resp: 284511

Ion	Ratio	Lower	Upper
202	100		
101	10.4	8.3	12.5

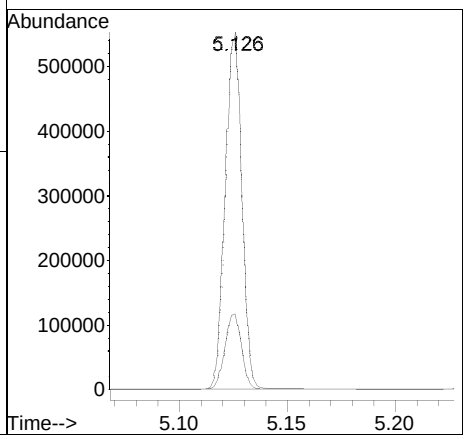


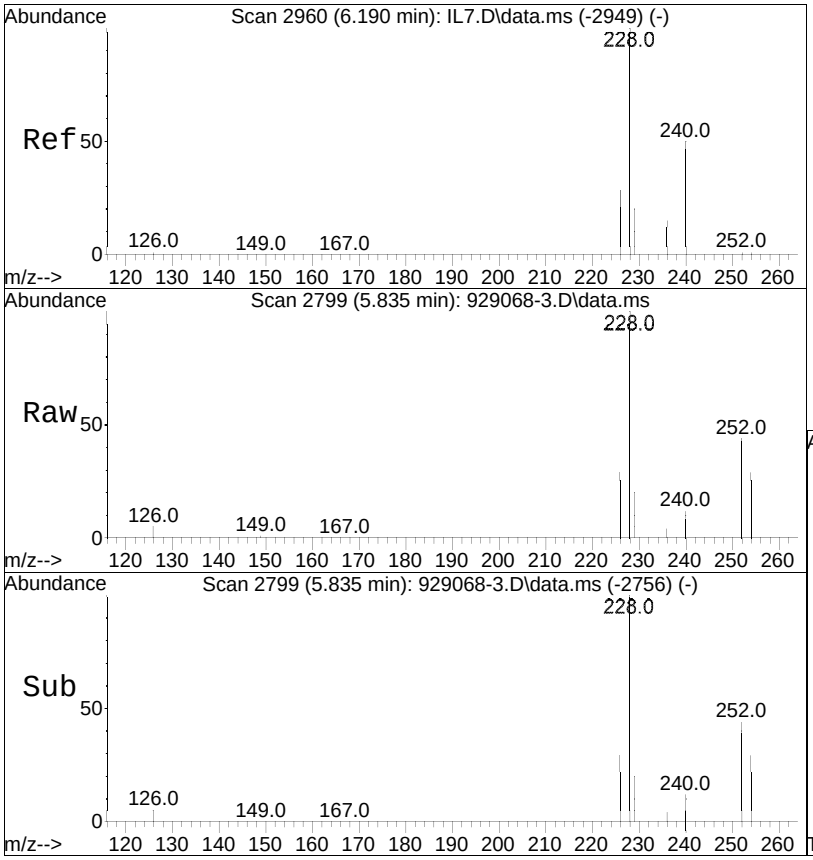


#29
Pyrene
Concen: 4232.07 ng/ml
RT: 5.126 min Scan# 2392
Delta R.T. -0.000 min
Lab File: 929068-3.D
Acq: 04 Jun 2024 10:14 am

Tgt Ion:202 Resp: 290701

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.3	25.9

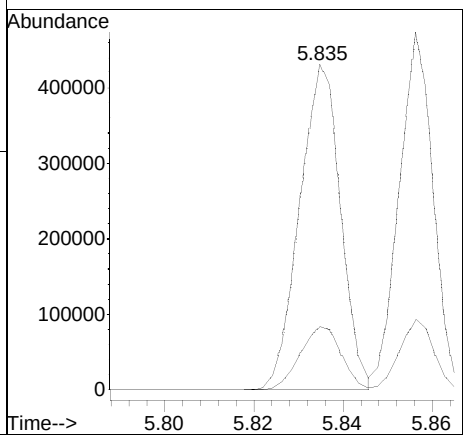


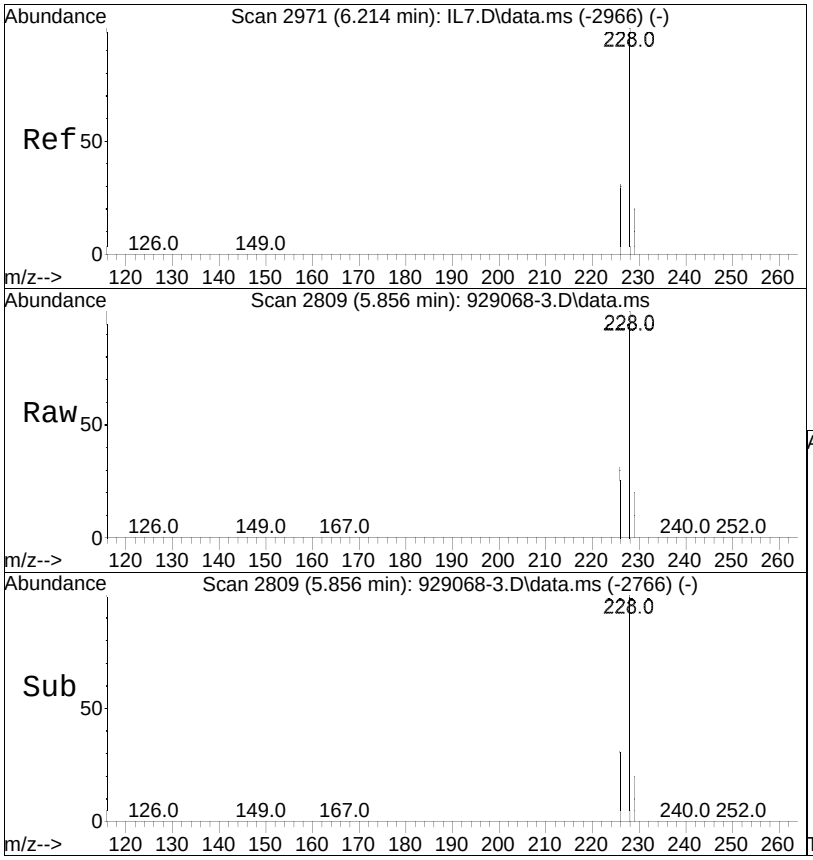


#32
Benzo[a]anthracene
Concen: 5295.46 ng/ml
RT: 5.835 min Scan# 2799
Delta R.T. -0.009 min
Lab File: 929068-3.D
Acq: 04 Jun 2024 10:14 am

Tgt Ion:228 Resp: 274010

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.6	23.4

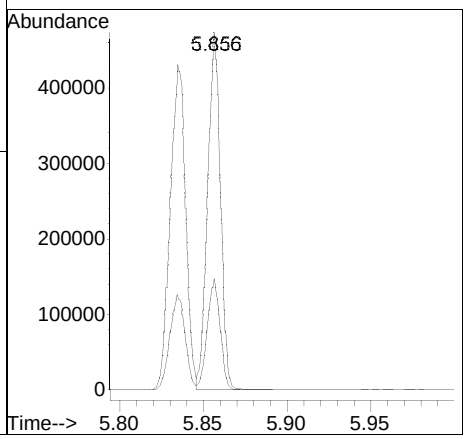


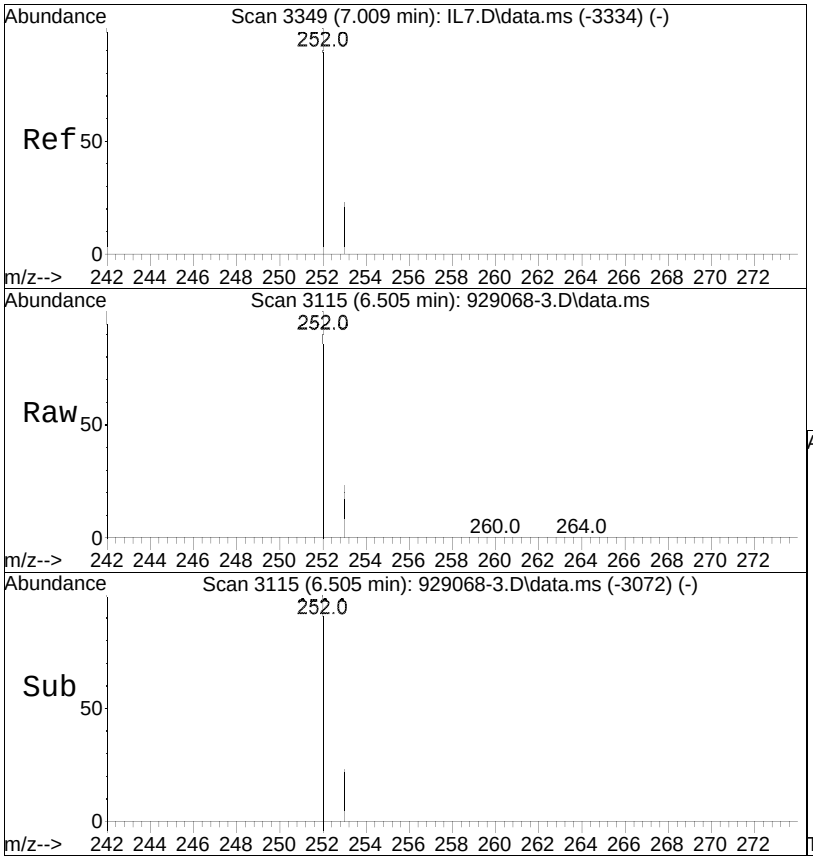


#34
Chrysene
Concen: 4892.28 ng/ml
RT: 5.856 min Scan# 2809
Delta R.T. -0.009 min
Lab File: 929068-3.D
Acq: 04 Jun 2024 10:14 am

Tgt Ion:228 Resp: 251270

Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.5	36.7

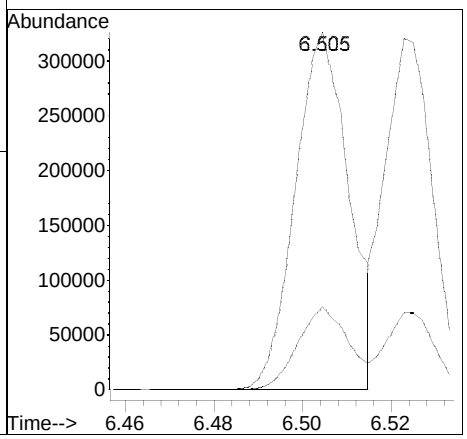


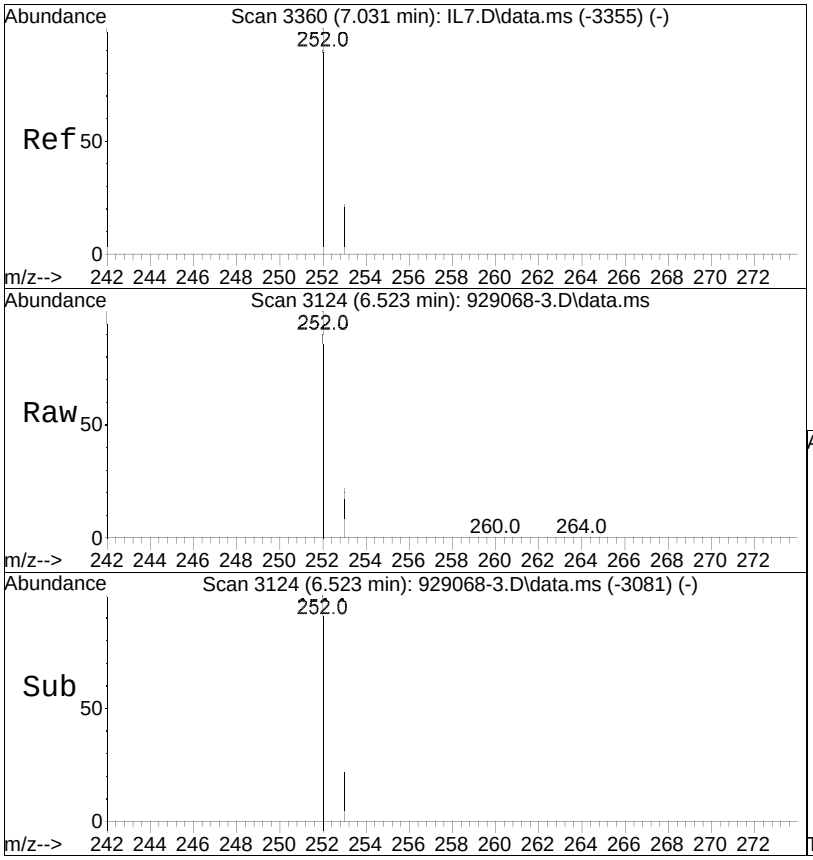


#37
Benzo[b]fluoranthene
Concen: 4499.73 ng/ml
RT: 6.505 min Scan# 3115
Delta R.T. -0.012 min
Lab File: 929068-3.D
Acq: 04 Jun 2024 10:14 am

Tgt Ion:252 Resp: 273627

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.3	25.9

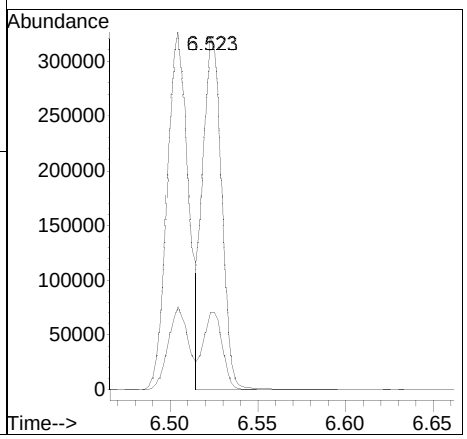


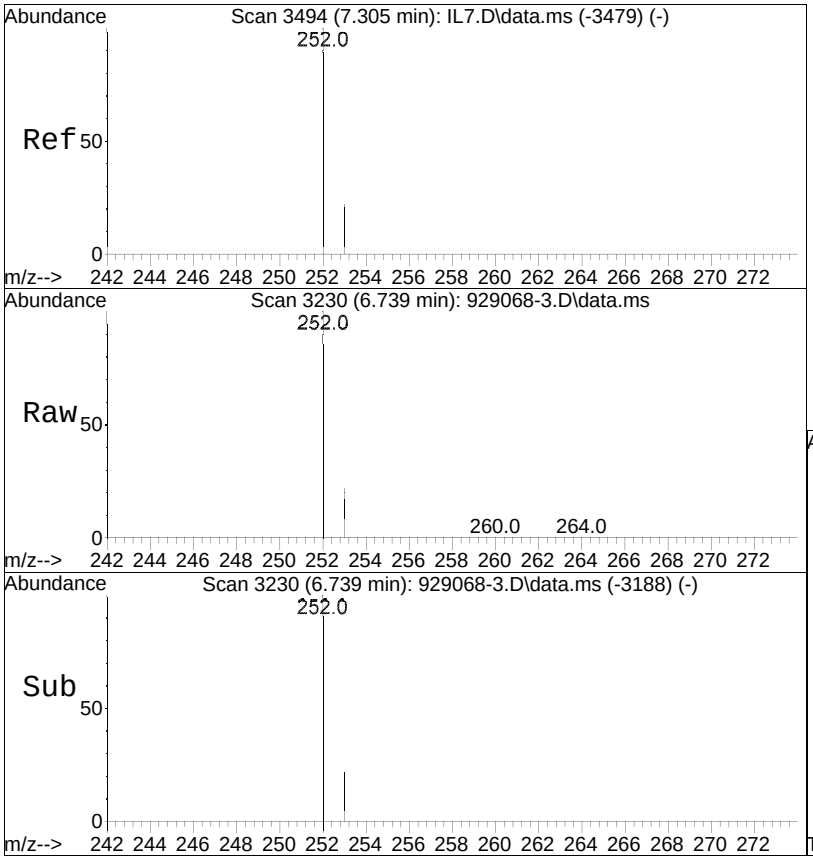


#38
Benzo[k]fluoranthene
Concen: 4158.07 ng/ml
RT: 6.523 min Scan# 3124
Delta R.T. -0.012 min
Lab File: 929068-3.D
Acq: 04 Jun 2024 10:14 am

Tgt Ion:252 Resp: 240097

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.4	26.2

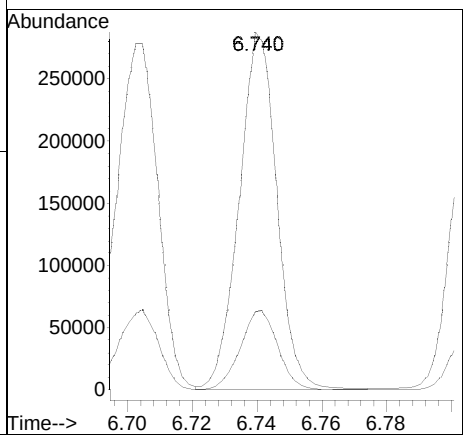


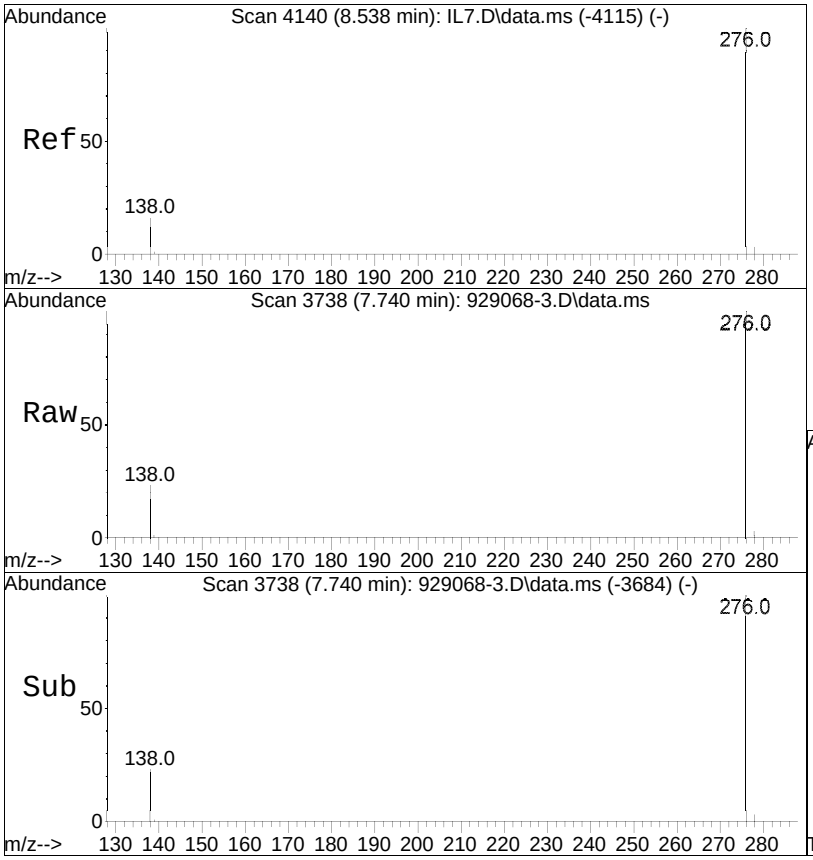


#39
Benzo[a]pyrene
Concen: 4315.20 ng/ml
RT: 6.739 min Scan# 3230
Delta R.T. -0.014 min
Lab File: 929068-3.D
Acq: 04 Jun 2024 10:14 am

Tgt Ion:252 Resp: 230974

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.4	26.0

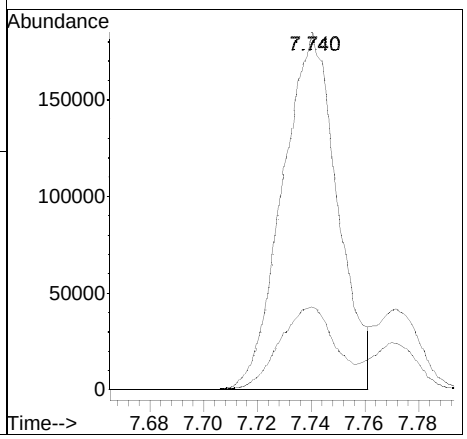


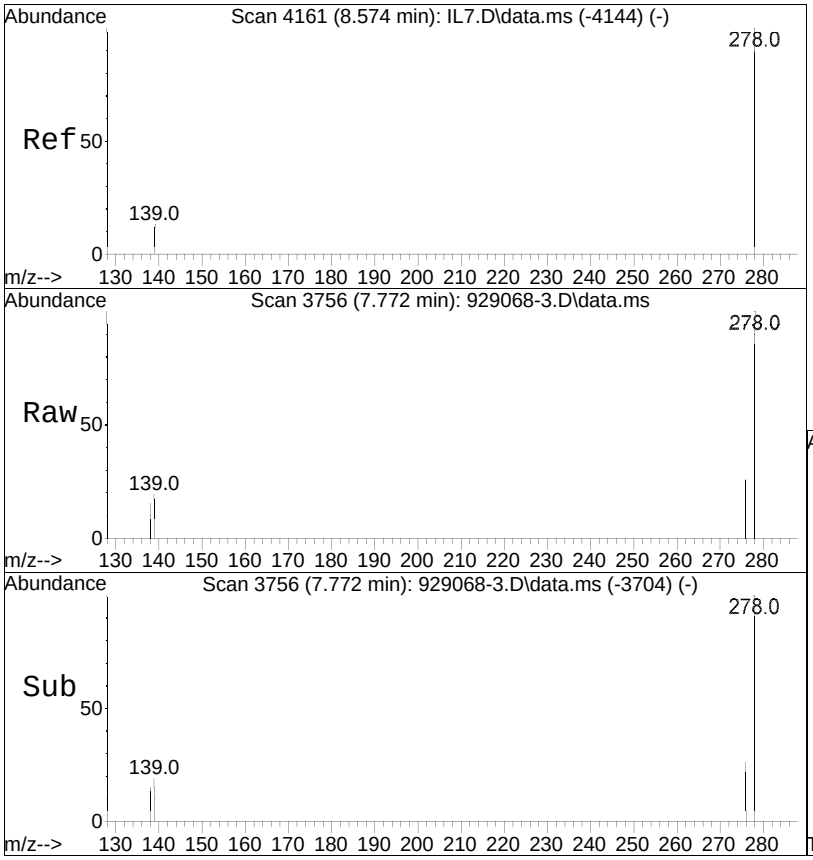


#40
Indeno[1,2,3-cd]pyrene
Concen: 4474.60 ng/ml
RT: 7.740 min Scan# 3738
Delta R.T. -0.007 min
Lab File: 929068-3.D
Acq: 04 Jun 2024 10:14 am

Tgt Ion:276 Resp: 260302

Ion	Ratio	Lower	Upper
276	100		
138	23.4	14.8	22.2#

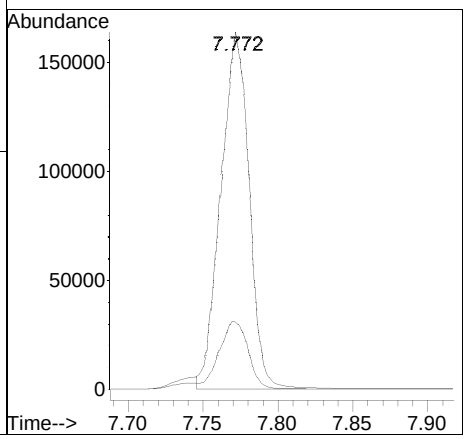


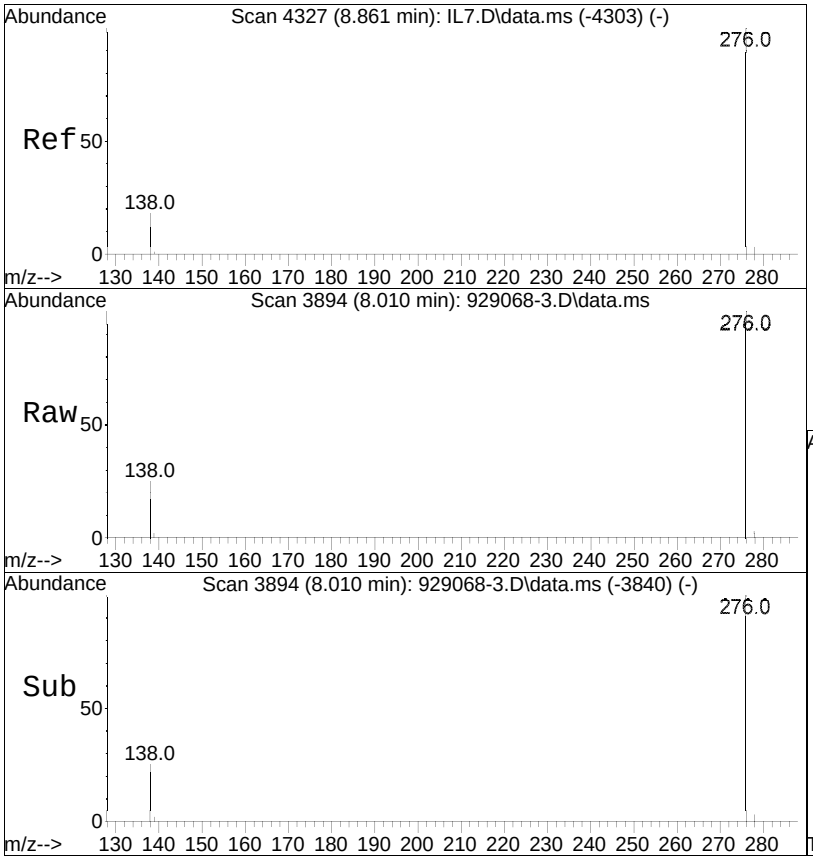


#41
Dibenzo[a,h]anthracene
Concen: 3948.55 ng/ml M6
RT: 7.772 min Scan# 3756
Delta R.T. -0.010 min
Lab File: 929068-3.D
Acq: 04 Jun 2024 10:14 am

Tgt Ion:278 Resp: 213712

Ion	Ratio	Lower	Upper
278	100		
139	19.6	12.2	18.4#

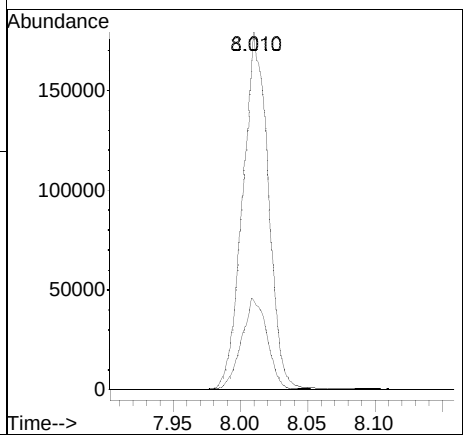




#42
Benzo[g,h,i]perylene
Concen: 3960.86 ng/ml
RT: 8.010 min Scan# 3894
Delta R.T. -0.007 min
Lab File: 929068-3.D
Acq: 04 Jun 2024 10:14 am

Tgt Ion:276 Resp: 234378

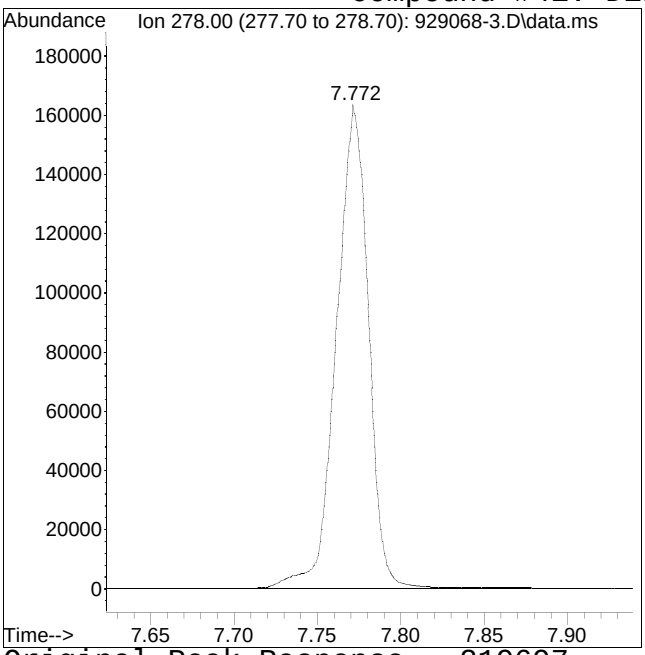
Ion	Ratio	Lower	Upper
276	100		
138	25.8	16.8	25.2#



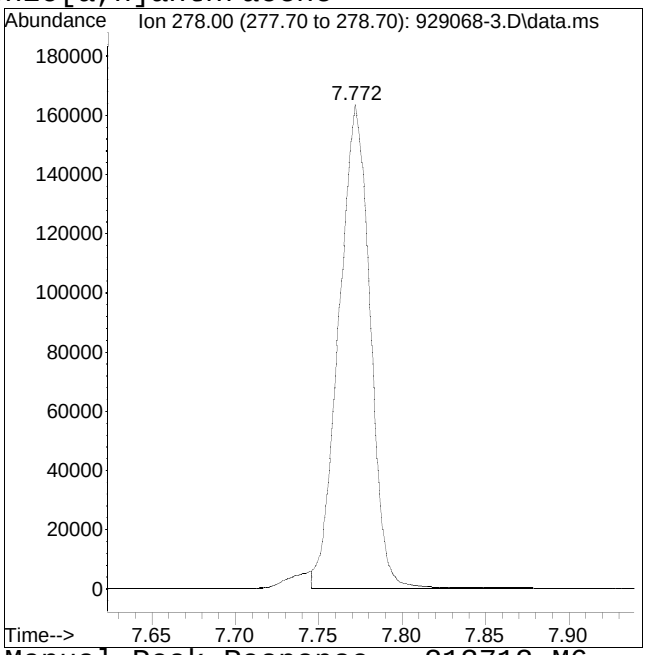
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 929068-3.D Operator : sv119:rp
Date Inj'd : 6/4/2024 10:14 am Instrument : SV119
Sample : WG1929068-3,32,,ah Quant Date : 6/4/2024 10:28 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 219697



Manual Peak Response = 213712 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 929068-4.D
Acq On : 04 Jun 2024 11:20 am
Operator : sv119:rp
Sample : WG1929068-4,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 06 09:29:01 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240604LVI\ccv0604.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.909	152	44676	4000.000	ng/ml	0.00
Standard Area 1 = 56492			Recovery = 79.08%			
8) Naphthalene-d8	2.552	136	150399	4000.000	ng/ml	0.00
Standard Area 1 = 186100			Recovery = 80.82%			
17) Acenaphthene-d10	3.500	164	74297	4000.000	ng/ml	0.00
Standard Area 1 = 98337			Recovery = 75.55%			
22) Phenanthrene-d10	4.320	188	155071	4000.000	ng/ml	0.00
Standard Area 1 = 215749			Recovery = 71.88%			
31) Chrysene-d12	5.843	240	118767	4000.000	ng/ml	0.00
Standard Area 1 = 188074			Recovery = 63.15%			
36) Perylene-d12	6.791	264	139710	4000.000	ng/ml	0.00
Standard Area 1 = 198758			Recovery = 70.29%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.343	112	53394	4369.527	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 87.39%			
3) Phenol-d6	1.744	99	57415	3919.758	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 78.40%			
7) Nitrobenzene-d5	2.185	82	30823	2774.147	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 110.97%			
13) 2-Fluorobiphenyl	3.139	172	72416	2155.885	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 86.24%			
21) 2,4,6-Tribromophenol	3.937	330	29627	7232.956	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 144.66%#			
30) 4-Terphenyl-d14	5.230	244	71015	1868.077	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 74.72%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.784	93	55337	4442.280	ng/ml#	77
5) n-nitrosodi-n-propylamine	2.111	70	42136	5655.647	ng/ml	98
6) Hexachloroethane	2.156	117	25833	4674.199	ng/ml	90
9) Naphthalene	2.562	128	174330	4854.330	ng/ml	100
10) Hexachlorobutadiene	2.637	225	39350	5087.925	ng/ml	100
11) 2-Methylnaphthalene	2.933	142	122092	4598.029	ng/ml	97
12) 1-Methylnaphthalene	2.985	142	109107	4455.861	ng/ml	97
14) 2-Chloronaphthalene	3.197	162	127634	4512.501	ng/ml#	84
15) 2,6-Dinitrotoluene	3.395	165	35379	5539.359	ng/ml	92
16) Acenaphthylene	3.420	152	189710	4513.420	ng/ml	100
18) Acenaphthene	3.518	153	122048	5313.709	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 929068-4.D
Acq On : 04 Jun 2024 11:20 am
Operator : sv119:rp
Sample : WG1929068-4,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 06 09:29:01 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240604LVI\ccv0604.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.618	165	47453	6929.440	ng/ml#	75
20) Fluorene	3.802	166	143055	5210.624	ng/ml	97
23) 4,6-Dinitro-o-cresol	3.843	198	29704	6388.635	ng/ml#	74
24) Hexachlorobenzene	4.113	284	60605	6045.402	ng/ml	100
25) Pentachlorophenol	4.225	266	41698	6510.119	ng/ml	100
26) Phenanthrene	4.332	178	214472	5444.733	ng/ml	100
27) Anthracene	4.359	178	215597	5519.303	ng/ml	99
28) Fluoranthene	5.000	202	257337	4956.856	ng/ml	100
29) Pyrene	5.126	202	261292	4899.028	ng/ml	100
32) Benzo[a]anthracene	5.837	228	250382	6342.421	ng/ml	100
33) 3,3'-Dichlorobenzidine	5.835	252	106947	5960.318	ng/ml#	99
34) Chrysene	5.858	228	223871	5711.345	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	5.893	149	194987	7283.965	ng/ml	98
37) Benzo[b]fluoranthene	6.507	252	254654	5217.409	ng/ml	99
38) Benzo[k]fluoranthene	6.525	252	218942	4724.010	ng/ml	98
39) Benzo[a]pyrene	6.744	252	215674	5020.099	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	7.744	276	249875	5351.504	ng/ml#	88
41) Dibenzo[a,h]anthracene	7.775	278	205906M6	4739.739	ng/ml	
42) Benzo[g,h,i]perylene	8.019	276	226199	4762.556	ng/ml#	89

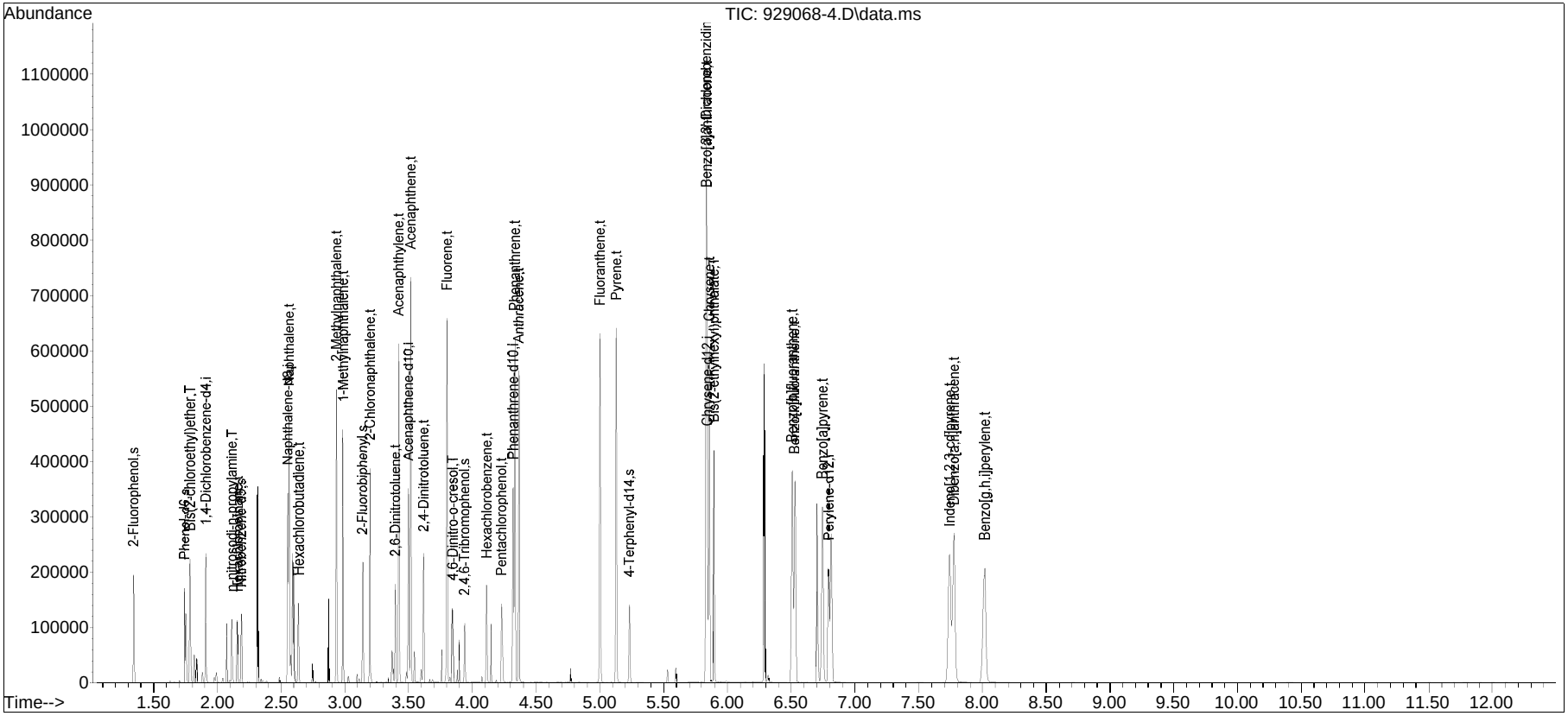
(#) = qualifier out of range (m) = manual integration (+) = signals summed

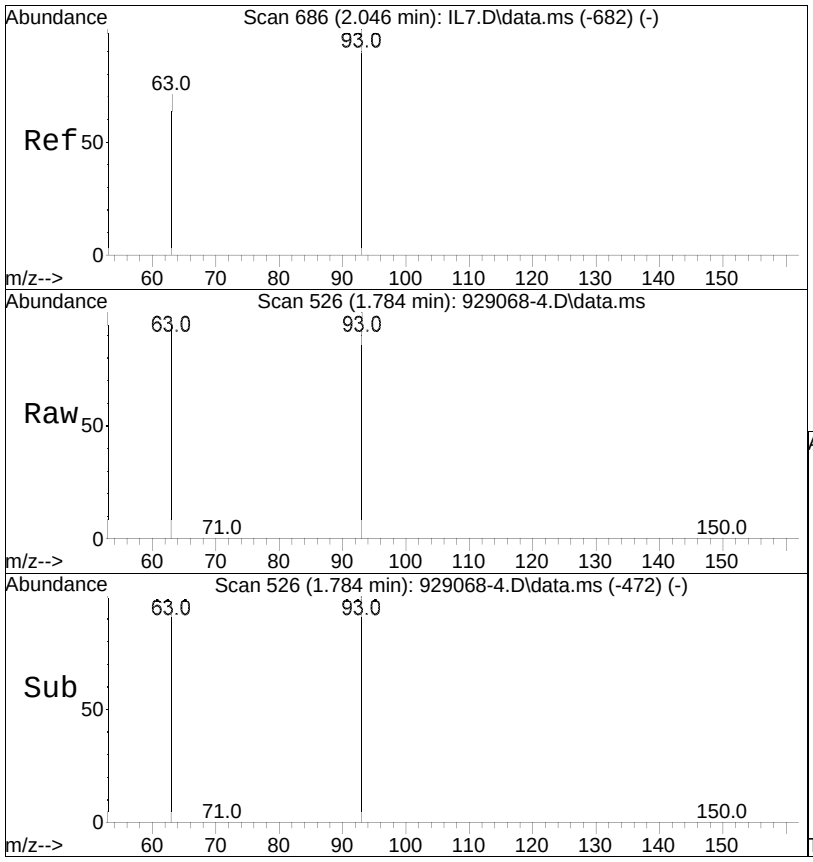
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 929068-4.D
Acq On : 04 Jun 2024 11:20 am
Operator : sv119:rp
Sample : WG1929068-4,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 06 09:29:01 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0604.D•

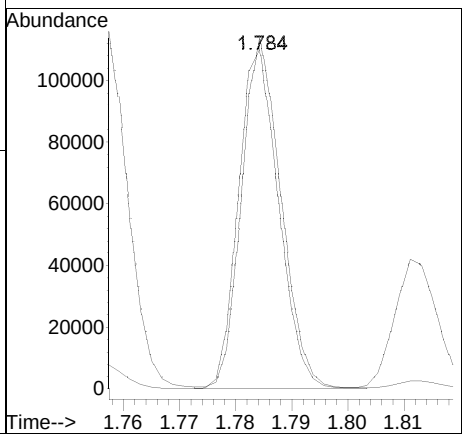


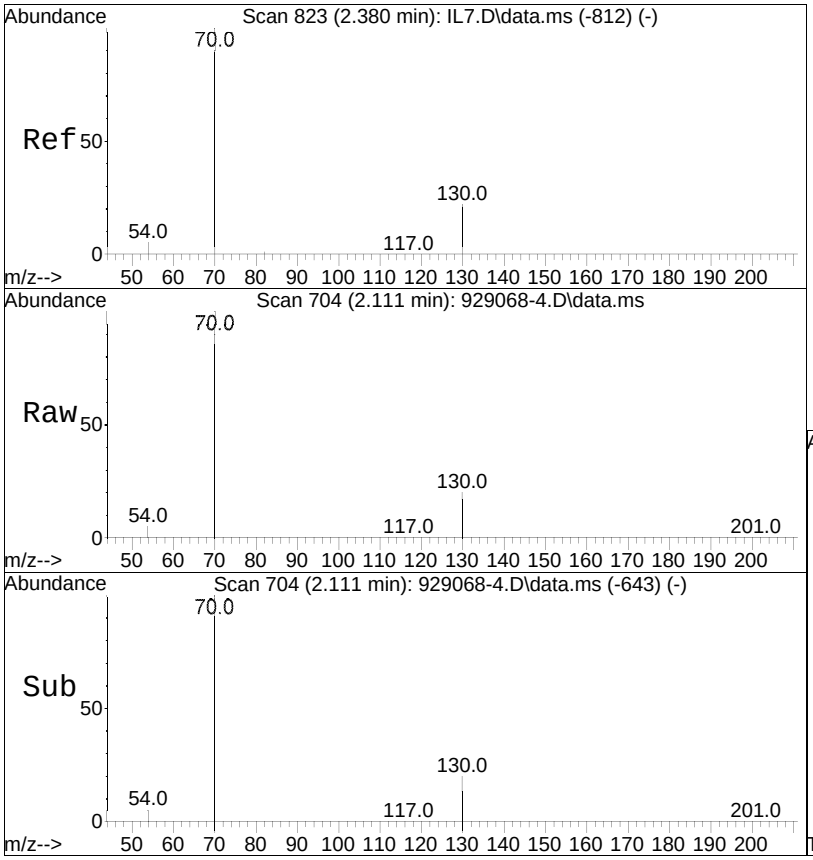


#4
Bis(2-chloroethyl)ether
Concen: 4442.28 ng/ml
RT: 1.784 min Scan# 526
Delta R.T. 0.004 min
Lab File: 929068-4.D
Acq: 04 Jun 2024 11:20 am

Tgt Ion: 93 Resp: 55337

Ion	Ratio	Lower	Upper
93	100		
63	98.8	62.6	94.0#

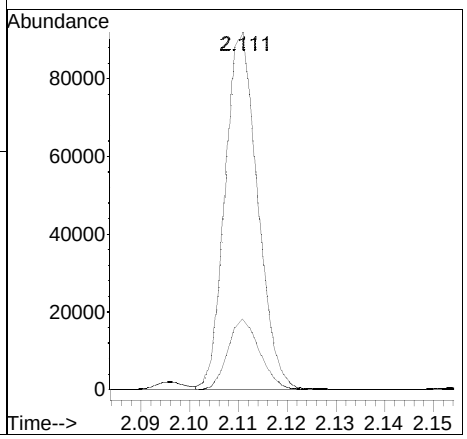


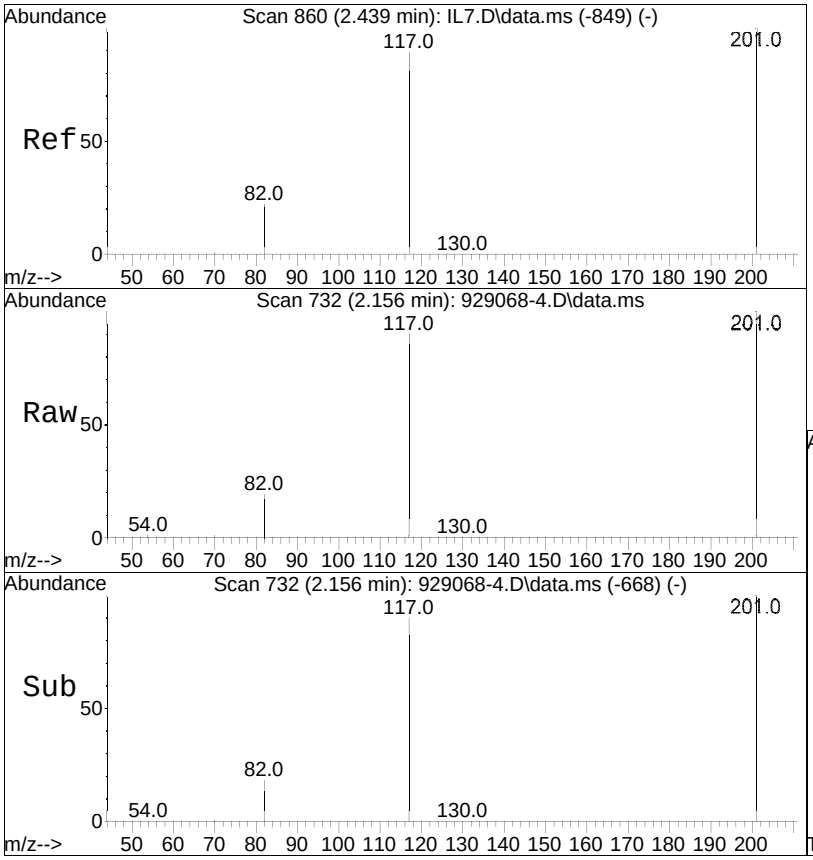


#5
n-nitrosodi-n-propylamine
Concen: 5655.65 ng/ml
RT: 2.111 min Scan# 704
Delta R.T. 0.003 min
Lab File: 929068-4.D
Acq: 04 Jun 2024 11:20 am

Tgt Ion: 70 Resp: 42136

Ion	Ratio	Lower	Upper
70	100		
130	19.5	15.0	22.6

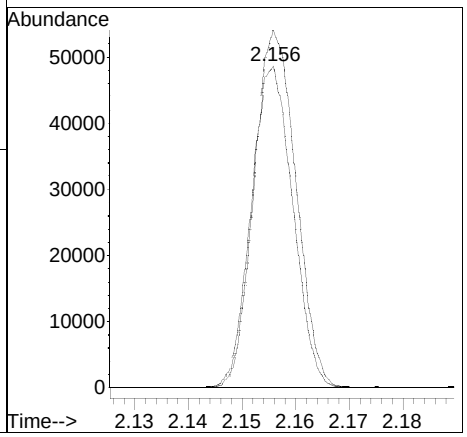


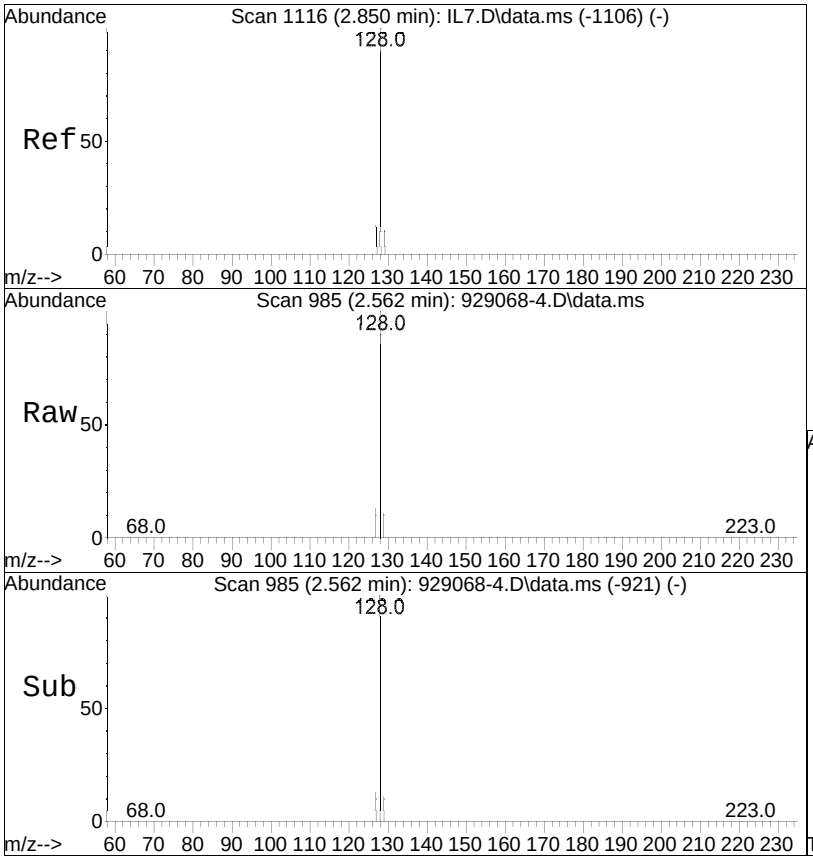


#6
Hexachloroethane
Concen: 4674.20 ng/ml
RT: 2.156 min Scan# 732
Delta R.T. 0.003 min
Lab File: 929068-4.D
Acq: 04 Jun 2024 11:20 am

Tgt Ion:117 Resp: 25833

Ion	Ratio	Lower	Upper
117	100		
201	112.3	81.5	122.3

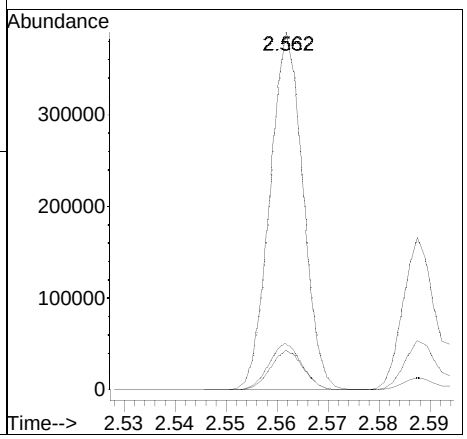


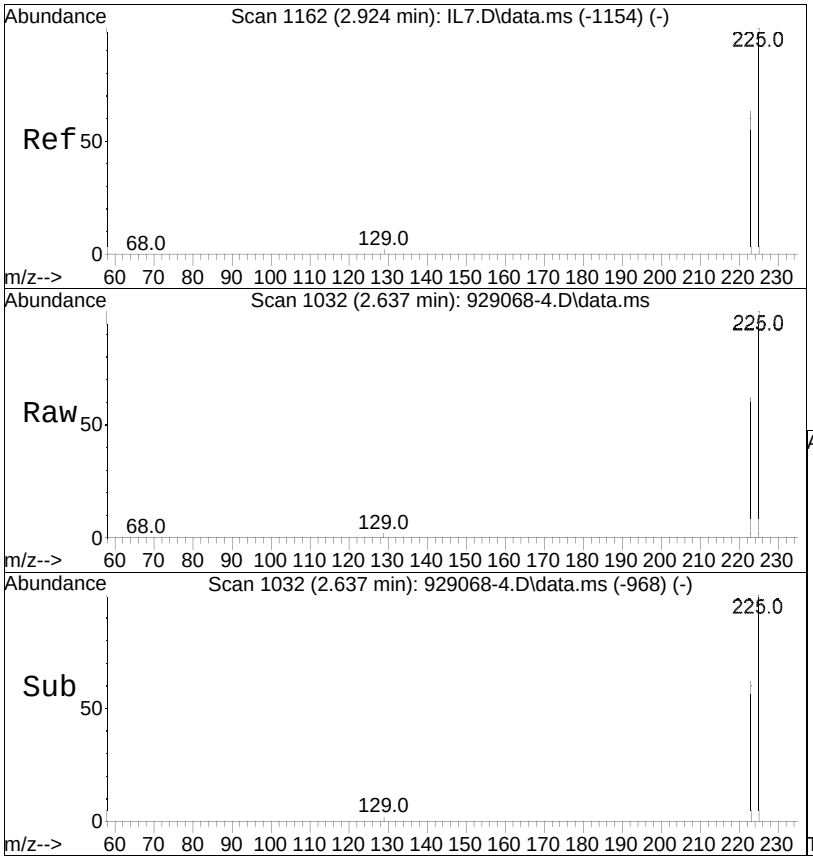


#9
Naphthalene
Concen: 4854.33 ng/ml
RT: 2.562 min Scan# 985
Delta R.T. 0.003 min
Lab File: 929068-4.D
Acq: 04 Jun 2024 11:20 am

Tgt Ion:128 Resp: 174330

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	13.1	10.6	15.8

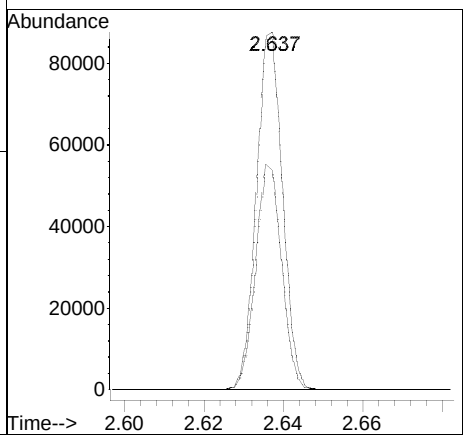


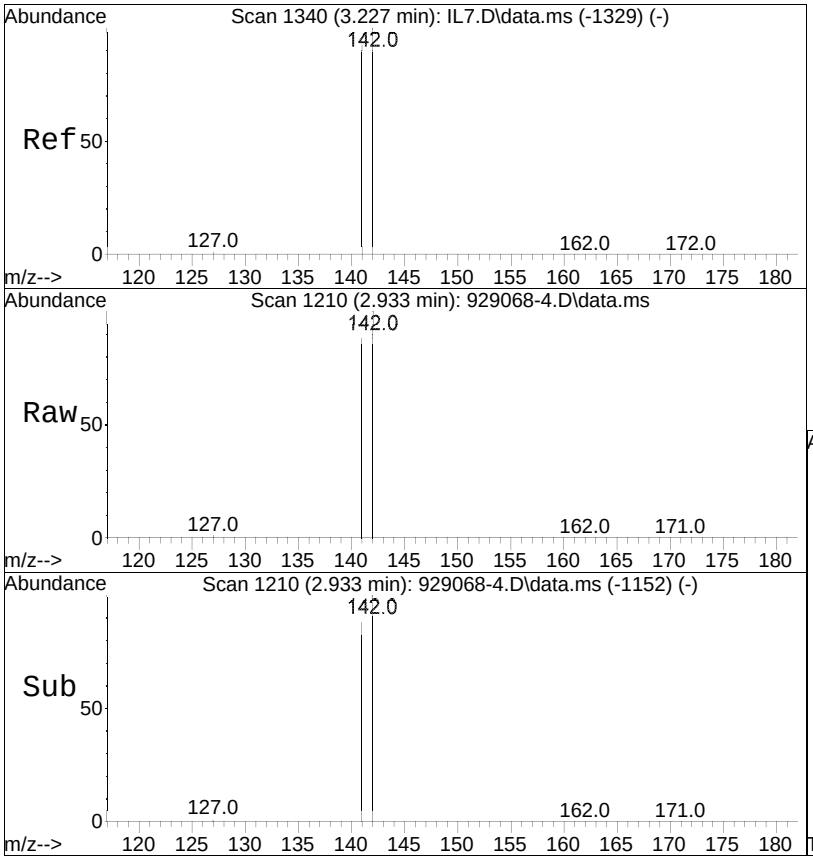


#10
Hexachlorobutadiene
Concen: 5087.93 ng/ml
RT: 2.637 min Scan# 1032
Delta R.T. 0.003 min
Lab File: 929068-4.D
Acq: 04 Jun 2024 11:20 am

Tgt Ion:225 Resp: 39350

Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.1	75.1

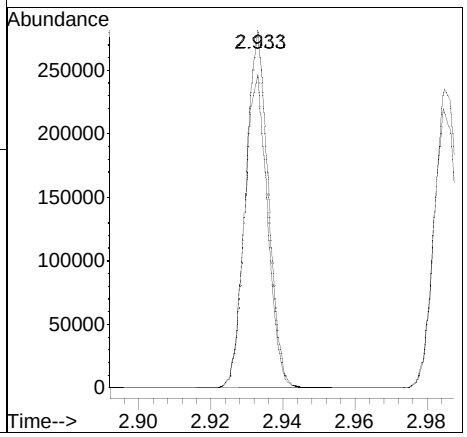


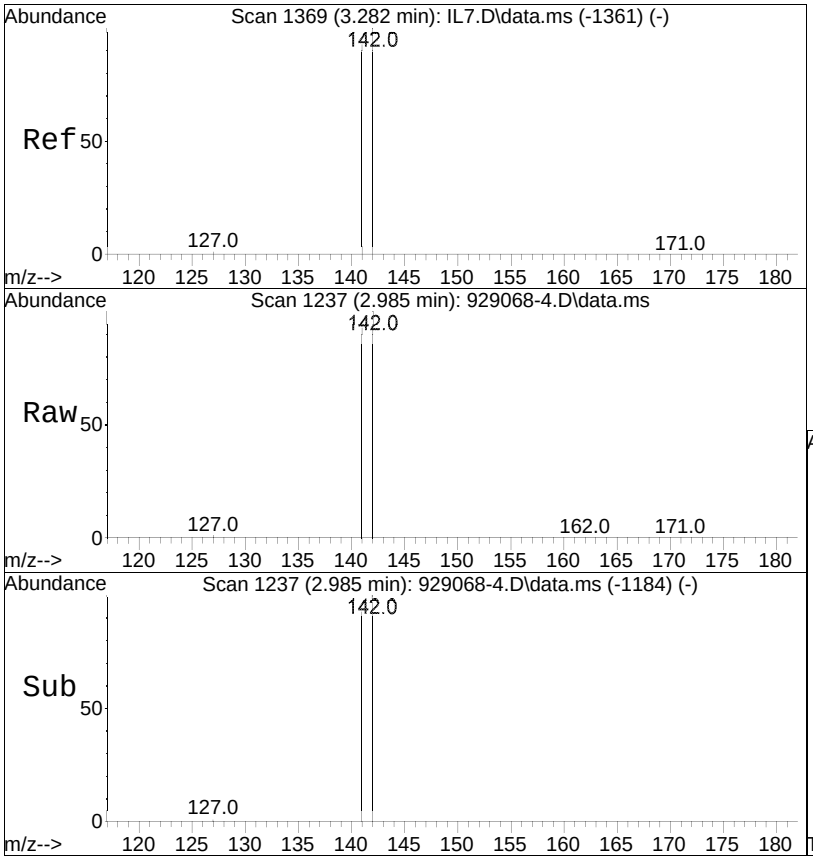


#11
2-Methylnaphthalene
Concen: 4598.03 ng/ml
RT: 2.933 min Scan# 1210
Delta R.T. 0.004 min
Lab File: 929068-4.D
Acq: 04 Jun 2024 11:20 am

Tgt Ion:142 Resp: 122092

Ion	Ratio	Lower	Upper
142	100		
141	89.5	74.1	111.1

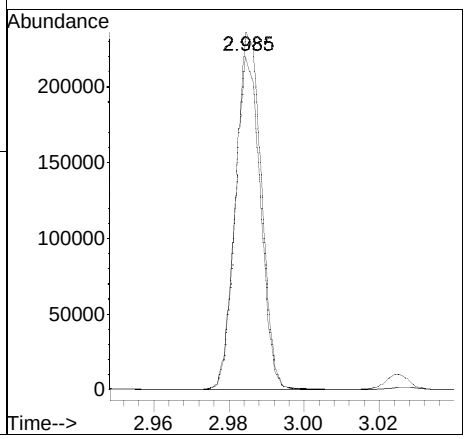


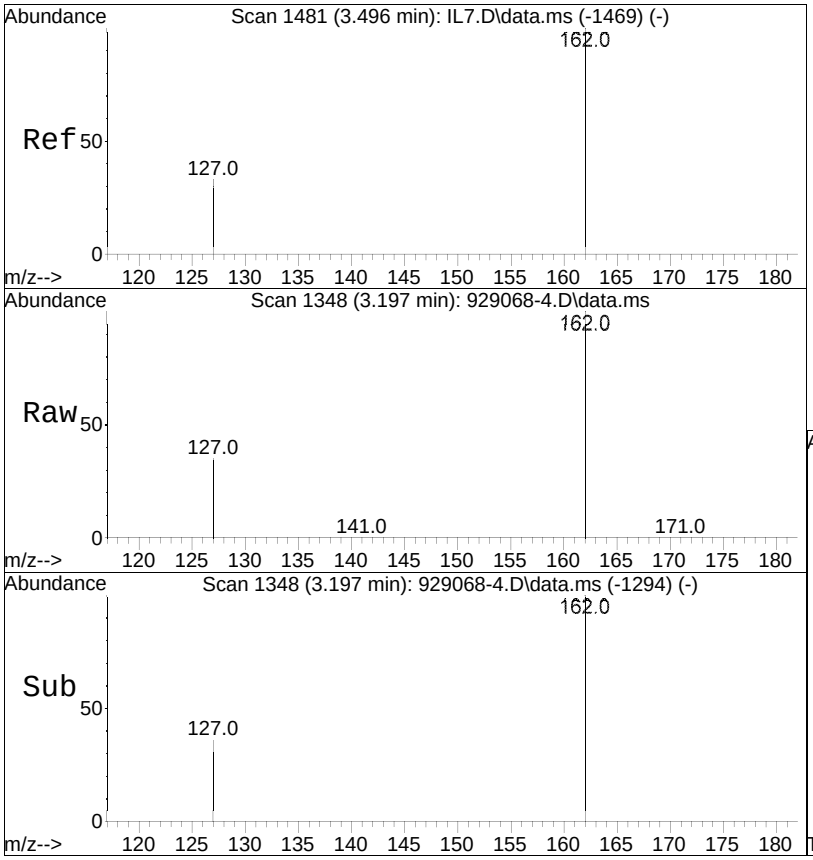


#12
1-Methylnaphthalene
Concen: 4455.86 ng/ml
RT: 2.985 min Scan# 1237
Delta R.T. 0.002 min
Lab File: 929068-4.D
Acq: 04 Jun 2024 11:20 am

Tgt Ion:142 Resp: 109107

Ion	Ratio	Lower	Upper
142	100		
141	93.2	76.6	114.8

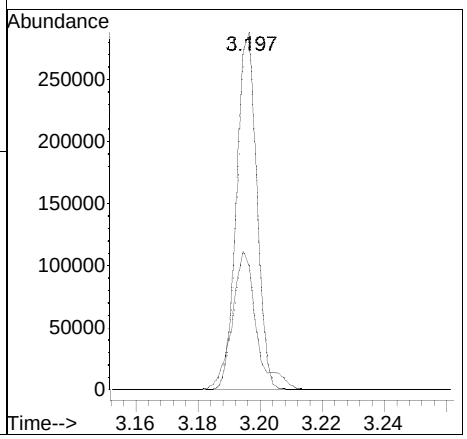


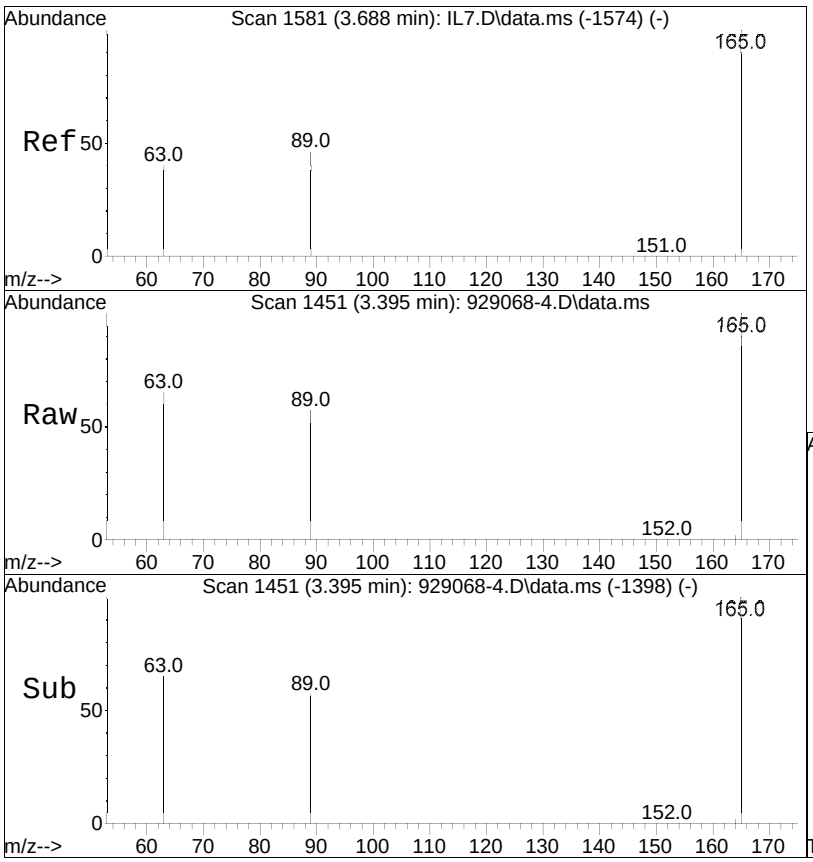


#14
2-Chloronaphthalene
Concen: 4512.50 ng/ml
RT: 3.197 min Scan# 1348
Delta R.T. 0.004 min
Lab File: 929068-4.D
Acq: 04 Jun 2024 11:20 am

Tgt Ion:162 Resp: 127634

Ion	Ratio	Lower	Upper
162	100		
127	46.8	29.7	44.5#

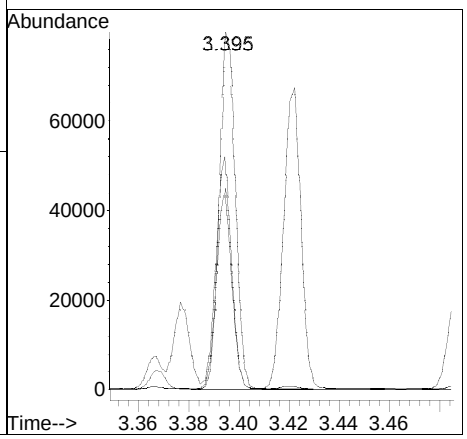


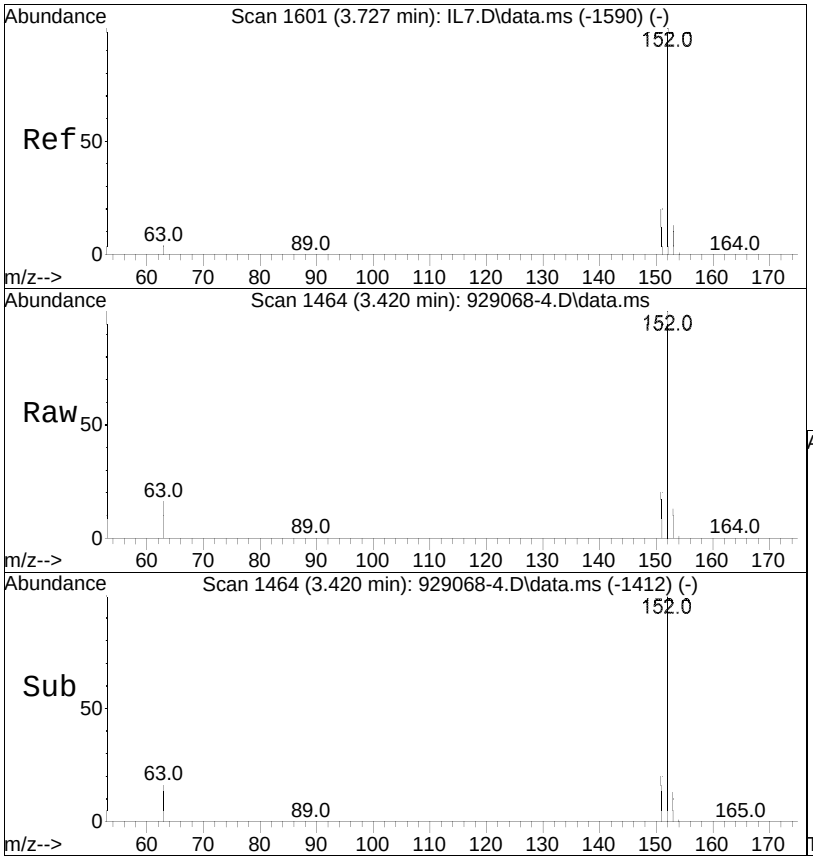


#15
2,6-Dinitrotoluene
Concen: 5539.36 ng/ml
RT: 3.395 min Scan# 1451
Delta R.T. 0.002 min
Lab File: 929068-4.D
Acq: 04 Jun 2024 11:20 am

Tgt Ion:165 Resp: 35379

Ion	Ratio	Lower	Upper
165	100		
89	53.3	52.8	79.2
63	63.3	50.9	76.3

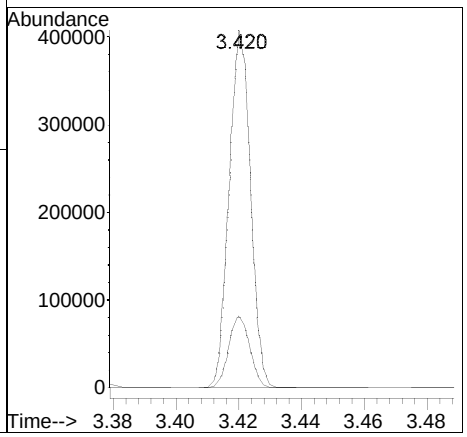


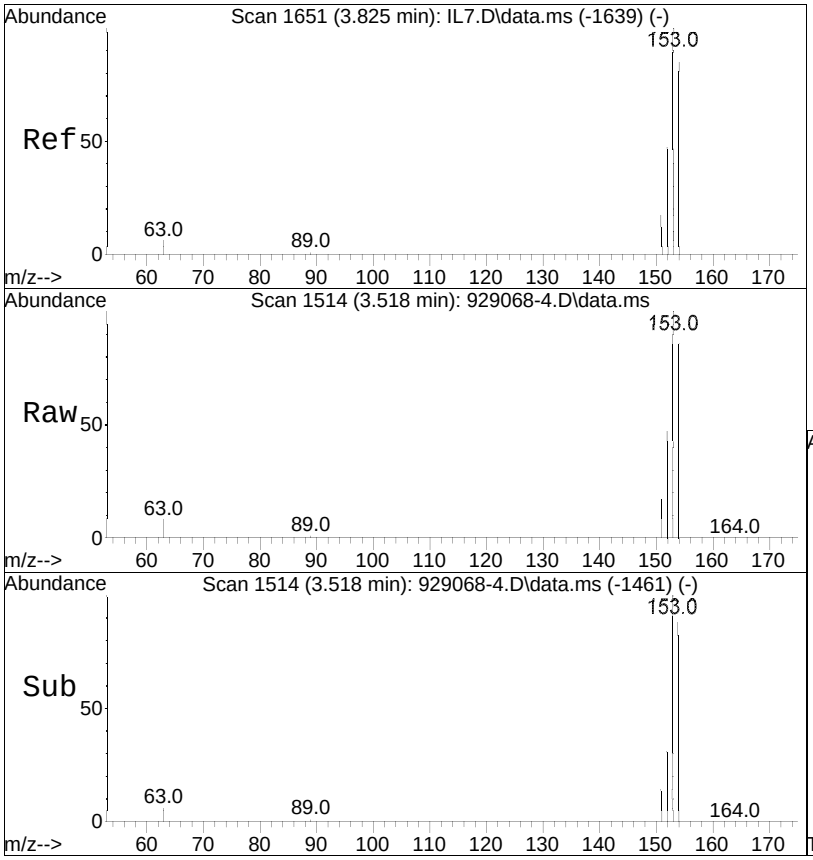


#16
Acenaphthylene
Concen: 4513.42 ng/ml
RT: 3.420 min Scan# 1464
Delta R.T. 0.002 min
Lab File: 929068-4.D
Acq: 04 Jun 2024 11:20 am

Tgt Ion:152 Resp: 189710

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.0	24.0

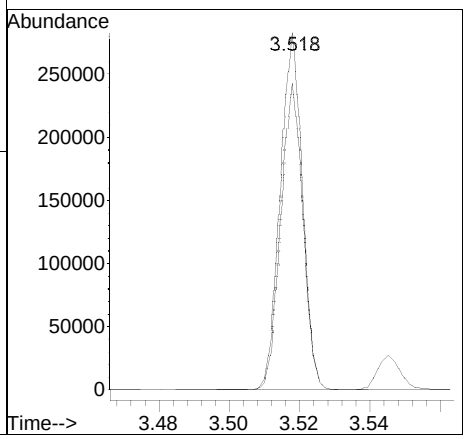


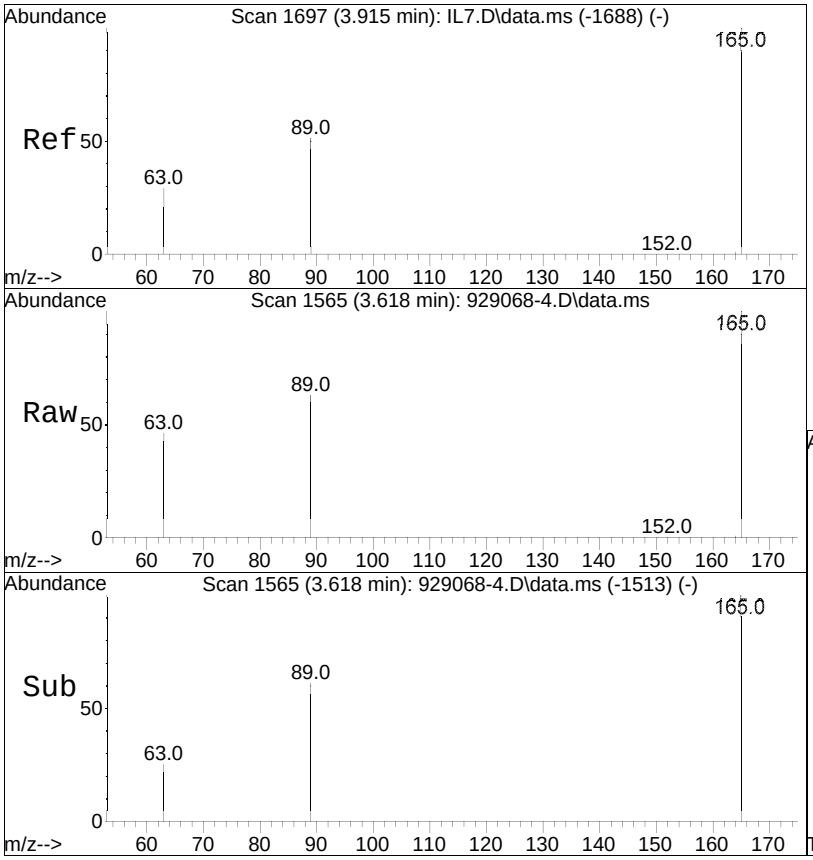


#18
Acenaphthene
Concen: 5313.71 ng/ml
RT: 3.518 min Scan# 1514
Delta R.T. 0.004 min
Lab File: 929068-4.D
Acq: 04 Jun 2024 11:20 am

Tgt Ion:153 Resp: 122048

Ion	Ratio	Lower	Upper
153	100		
154	85.4	66.9	100.3

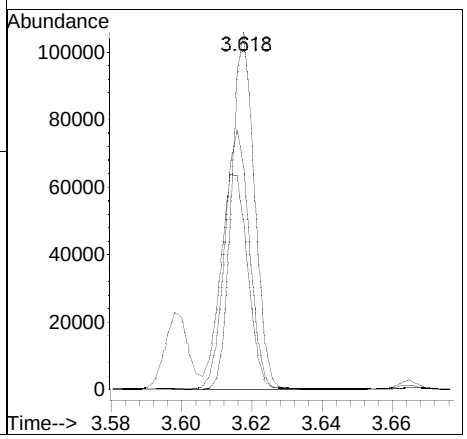


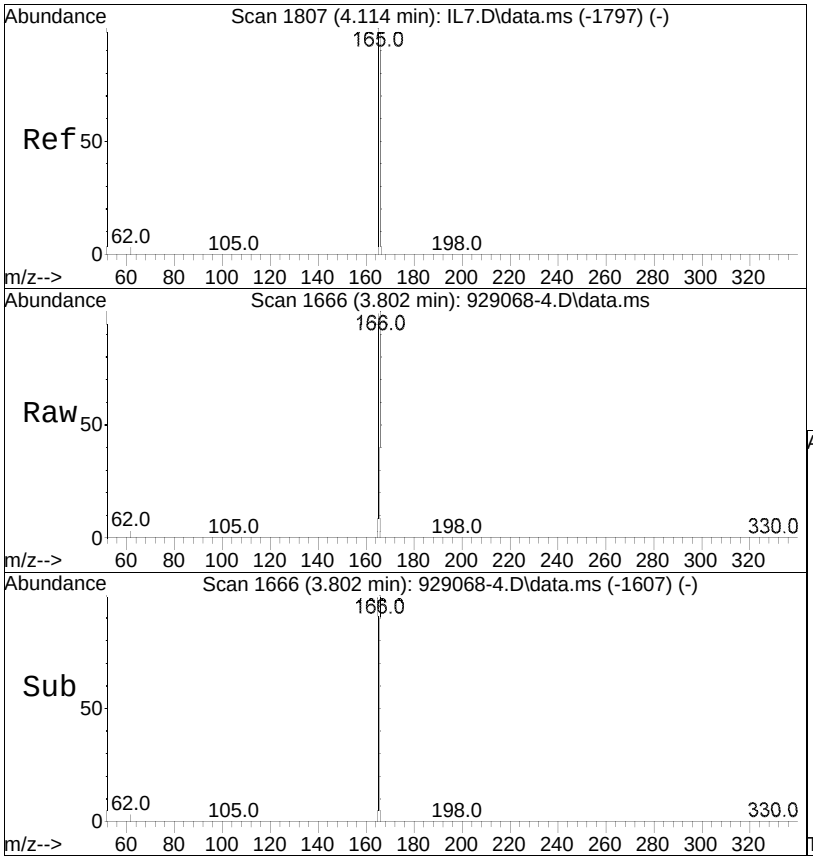


#19
2,4-Dinitrotoluene
Concen: 6929.44 ng/ml
RT: 3.618 min Scan# 1565
Delta R.T. 0.002 min
Lab File: 929068-4.D
Acq: 04 Jun 2024 11:20 am

Tgt Ion:165 Resp: 47453

Ion	Ratio	Lower	Upper
165	100		
89	79.0	80.1	120.1#
63	71.9	38.9	58.3#

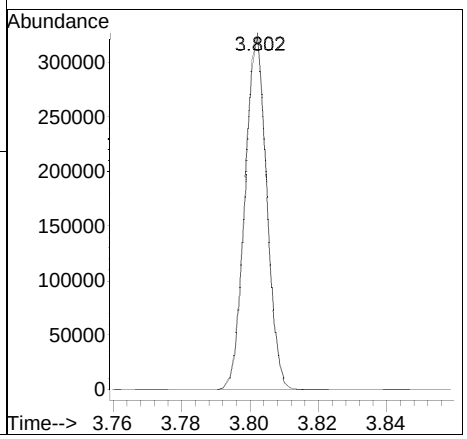


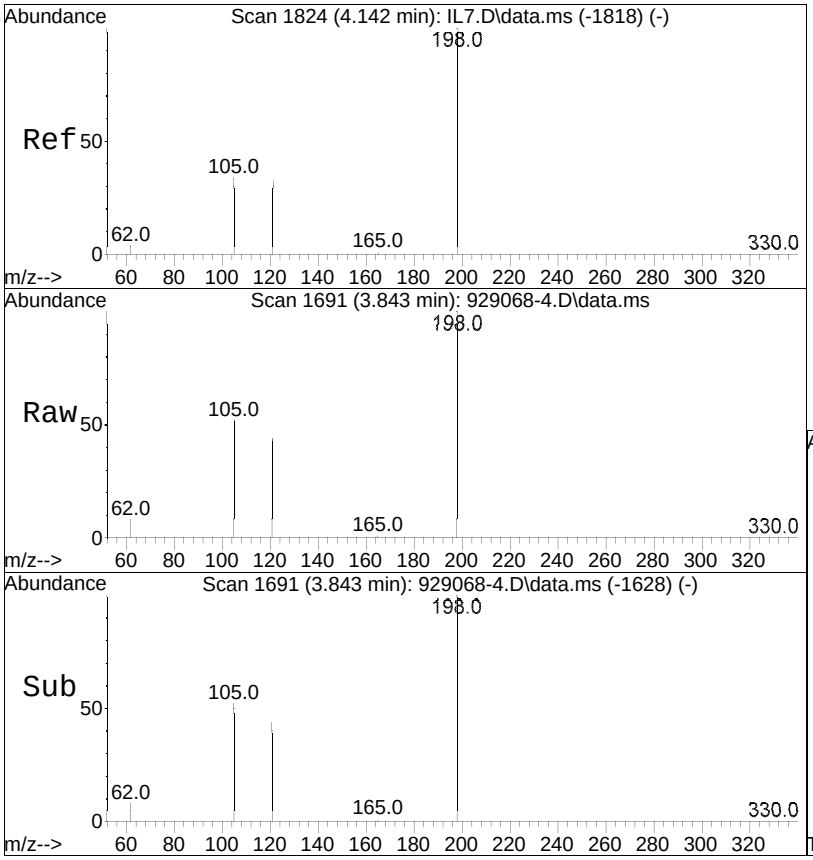


#20
Fluorene
Concen: 5210.62 ng/ml
RT: 3.802 min Scan# 1666
Delta R.T. 0.002 min
Lab File: 929068-4.D
Acq: 04 Jun 2024 11:20 am

Tgt Ion:166 Resp: 143055

Ion	Ratio	Lower	Upper
166	100		
165	100.8	82.9	124.3

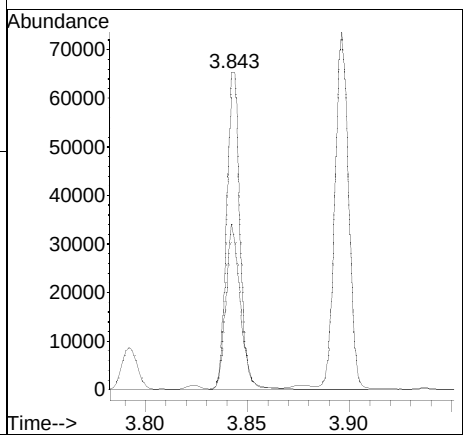


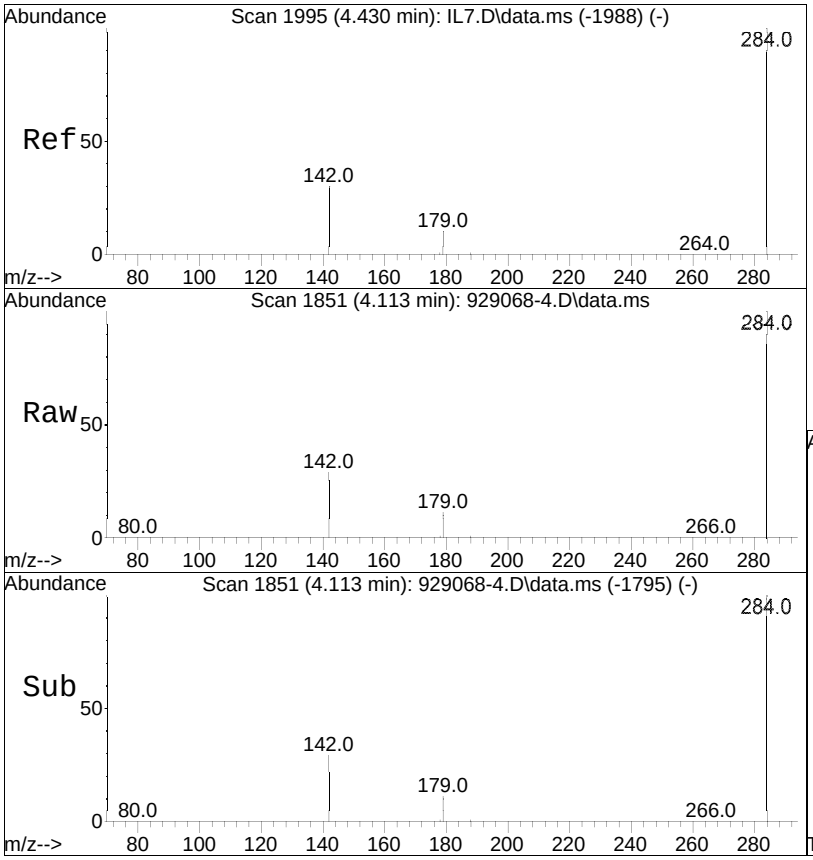


#23
4,6-Dinitro-o-cresol
Concen: 6388.64 ng/ml
RT: 3.843 min Scan# 1691
Delta R.T. 0.002 min
Lab File: 929068-4.D
Acq: 04 Jun 2024 11:20 am

Tgt Ion:198 Resp: 29704

Ion	Ratio	Lower	Upper
198	100		
105	56.2	32.2	48.4#

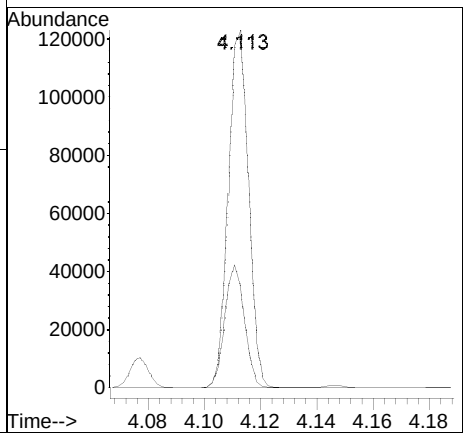


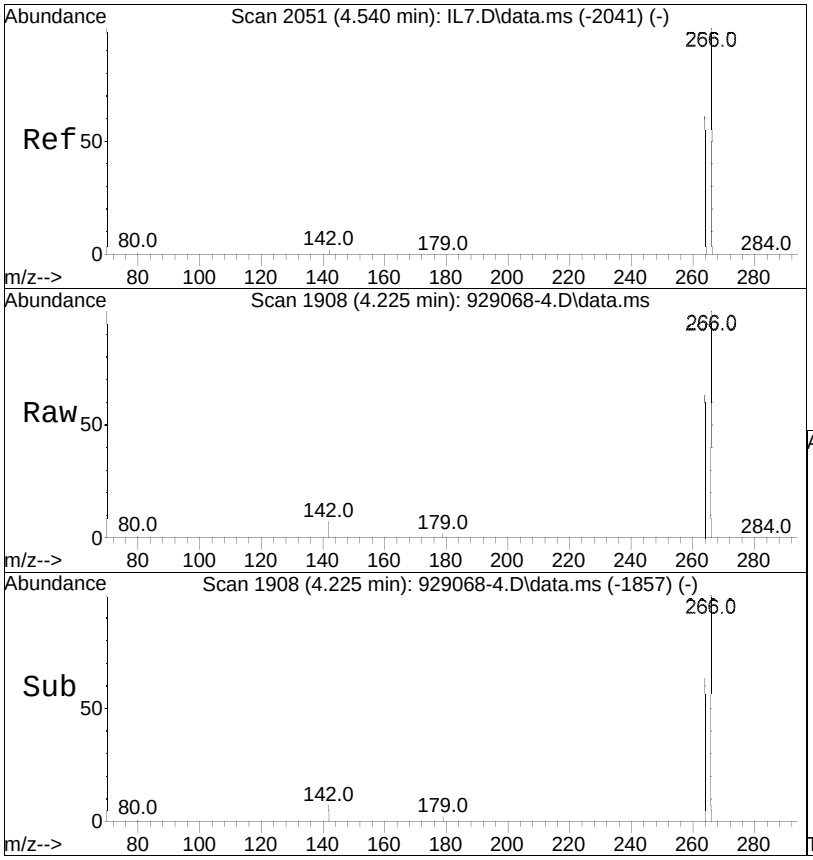


#24
Hexachlorobenzene
Concen: 6045.40 ng/ml
RT: 4.113 min Scan# 1851
Delta R.T. 0.002 min
Lab File: 929068-4.D
Acq: 04 Jun 2024 11:20 am

Tgt Ion:284 Resp: 60605

Ion	Ratio	Lower	Upper
284	100		
142	33.7	26.9	40.3

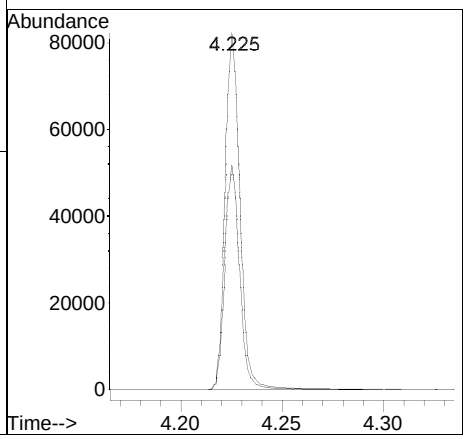


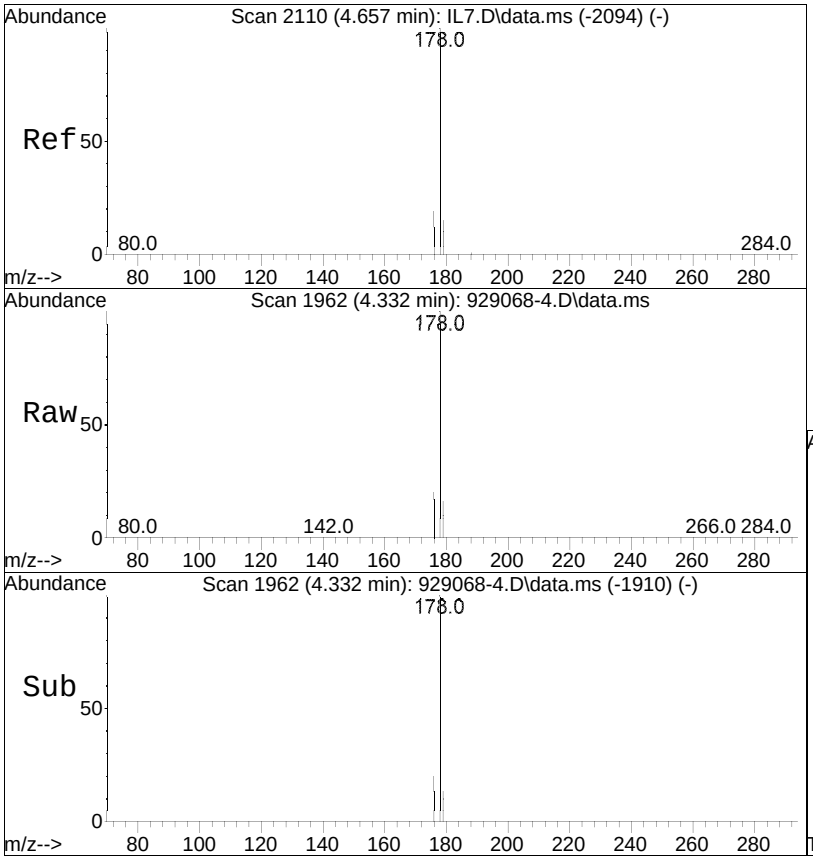


#25
Pentachlorophenol
Concen: 6510.12 ng/ml
RT: 4.225 min Scan# 1908
Delta R.T. -0.000 min
Lab File: 929068-4.D
Acq: 04 Jun 2024 11:20 am

Tgt Ion:266 Resp: 41698

Ion	Ratio	Lower	Upper
266	100		
264	63.0	50.7	76.1

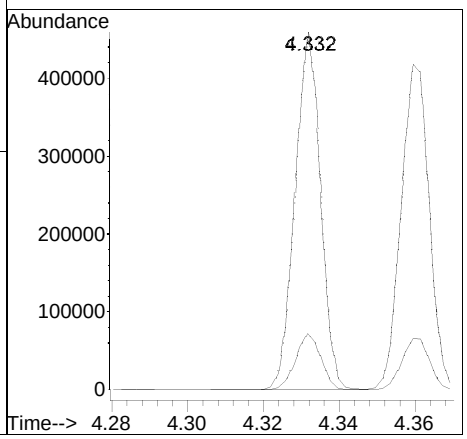


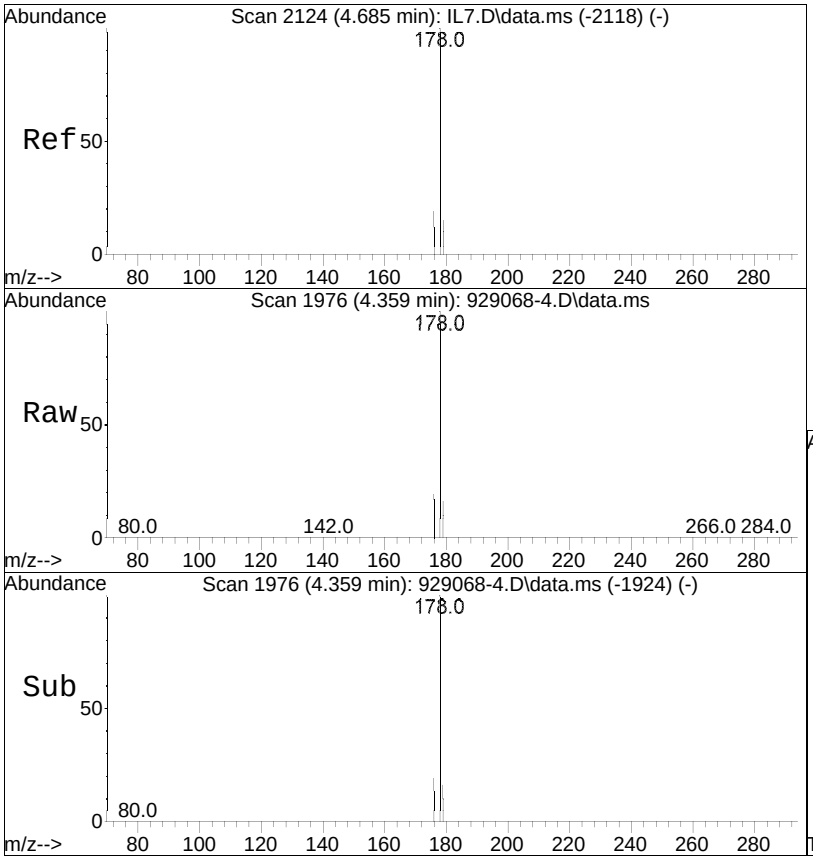


#26
Phenanthrene
Concen: 5444.73 ng/ml
RT: 4.332 min Scan# 1962
Delta R.T. 0.002 min
Lab File: 929068-4.D
Acq: 04 Jun 2024 11:20 am

Tgt Ion:178 Resp: 214472

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.3	18.5

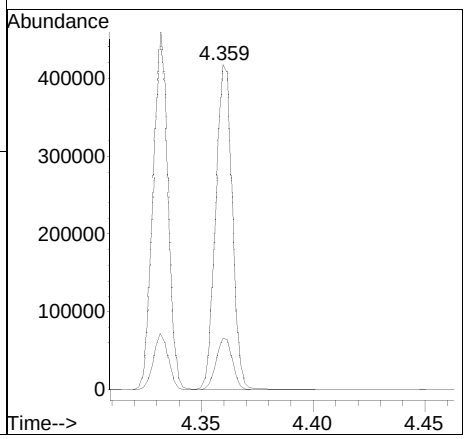


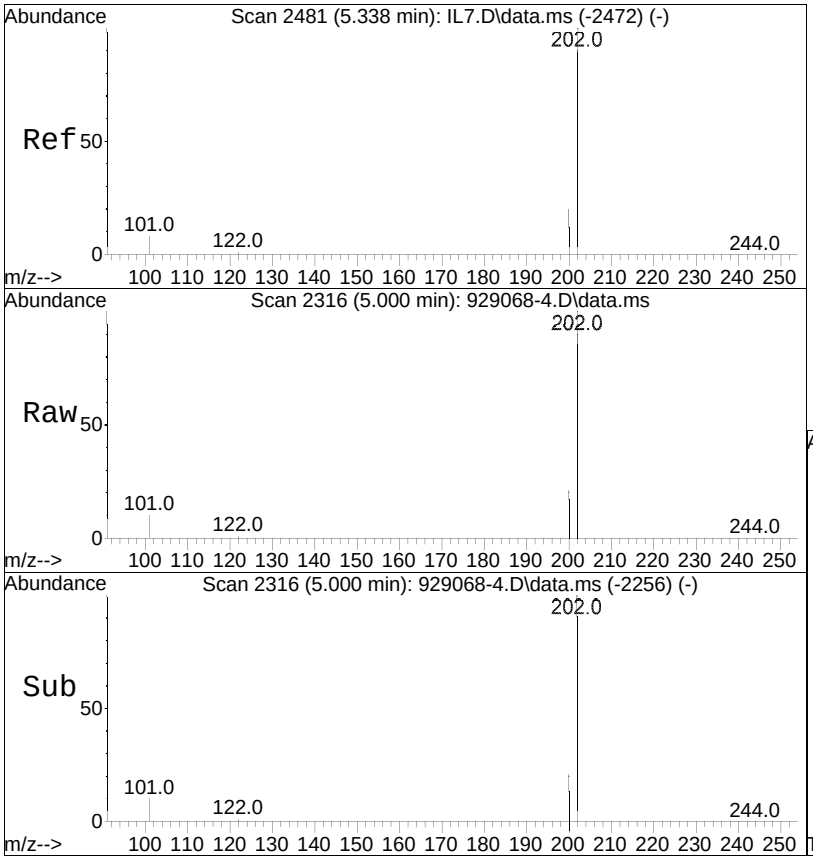


#27
Anthracene
Concen: 5519.30 ng/ml
RT: 4.359 min Scan# 1976
Delta R.T. 0.002 min
Lab File: 929068-4.D
Acq: 04 Jun 2024 11:20 am

Tgt Ion:178 Resp: 215597

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.2	18.4

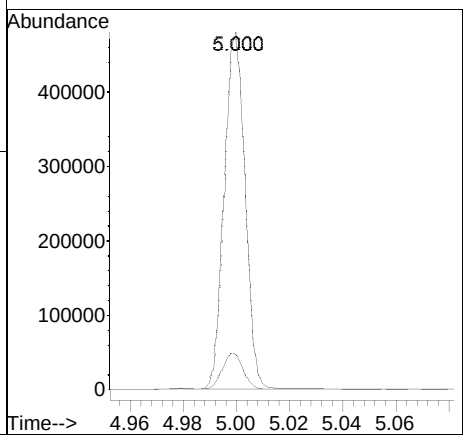


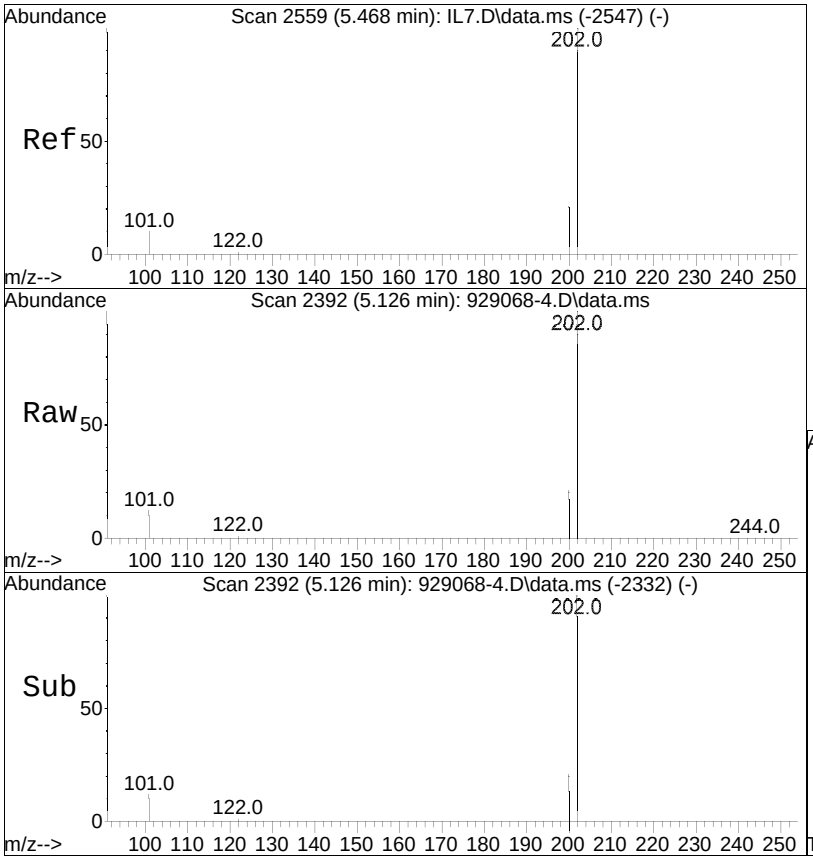


#28
Fluoranthene
Concen: 4956.86 ng/ml
RT: 5.000 min Scan# 2316
Delta R.T. -0.000 min
Lab File: 929068-4.D
Acq: 04 Jun 2024 11:20 am

Tgt Ion:202 Resp: 257337

Ion	Ratio	Lower	Upper
202	100		
101	10.4	8.3	12.5

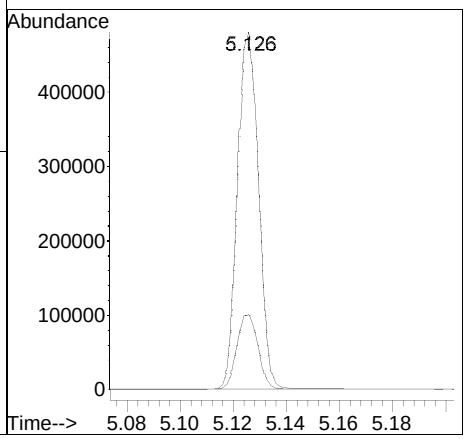


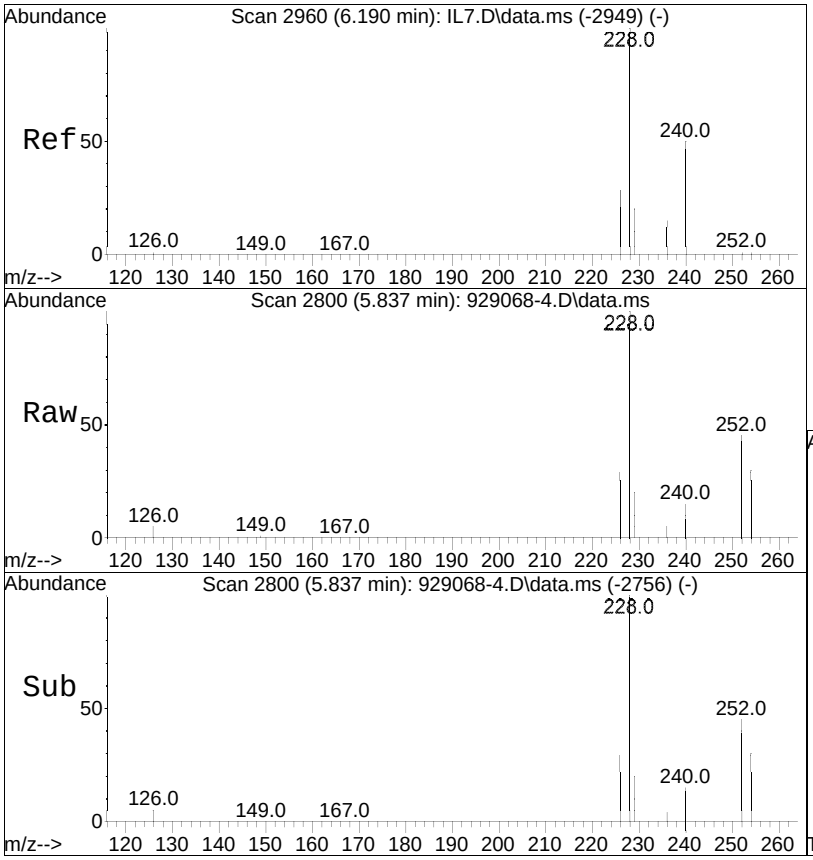


#29
Pyrene
Concen: 4899.03 ng/ml
RT: 5.126 min Scan# 2392
Delta R.T. -0.000 min
Lab File: 929068-4.D
Acq: 04 Jun 2024 11:20 am

Tgt Ion:202 Resp: 261292

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.3	25.9

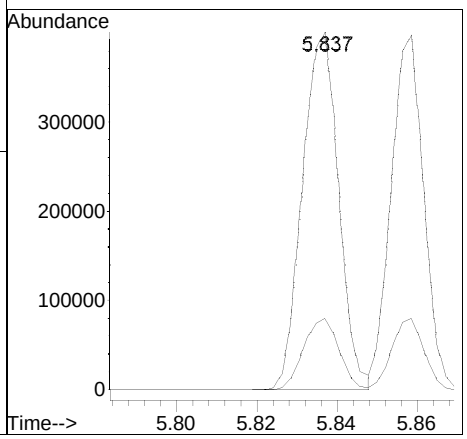


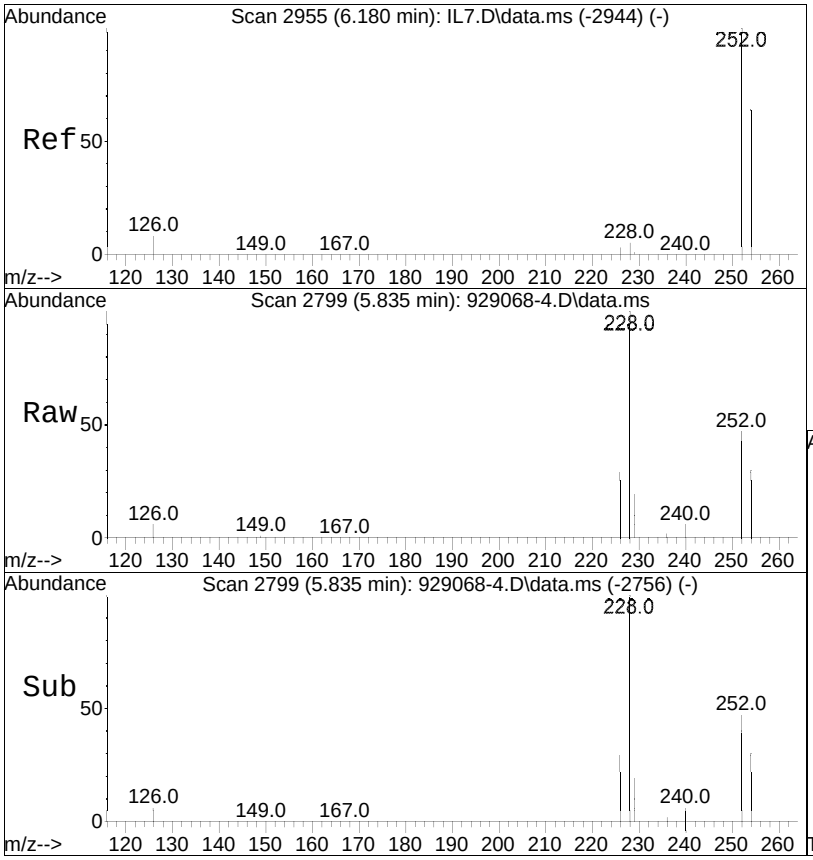


#32
Benzo[a]anthracene
Concen: 6342.42 ng/ml
RT: 5.837 min Scan# 2800
Delta R.T. -0.007 min
Lab File: 929068-4.D
Acq: 04 Jun 2024 11:20 am

Tgt Ion:228 Resp: 250382

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.6	23.4

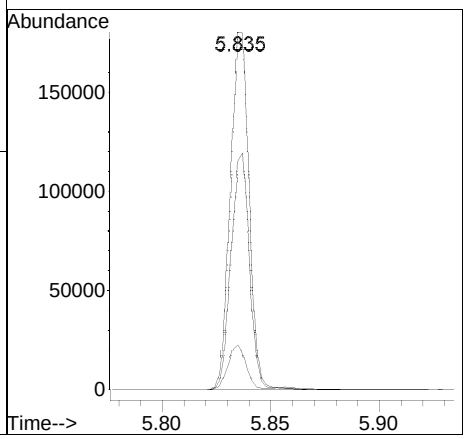


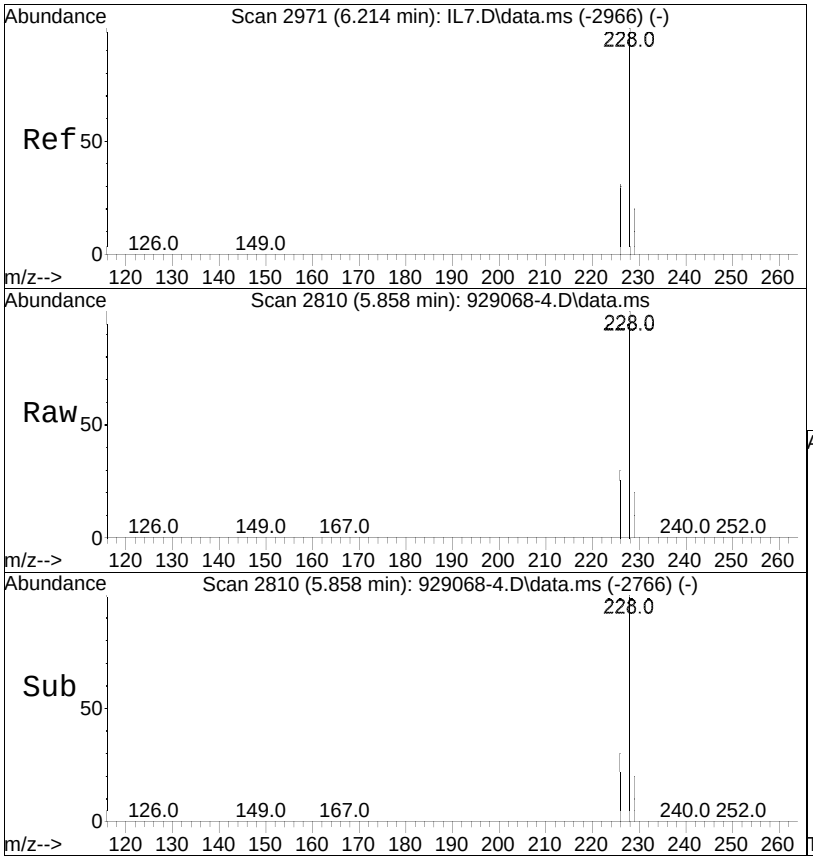


#33
3,3'-Dichlorobenzidine
Concen: 5960.32 ng/ml
RT: 5.835 min Scan# 2799
Delta R.T. -0.009 min
Lab File: 929068-4.D
Acq: 04 Jun 2024 11:20 am

Tgt Ion:252 Resp: 106947

Ion	Ratio	Lower	Upper
252	100		
126	12.2	7.7	11.5#
254	65.0	52.0	78.0

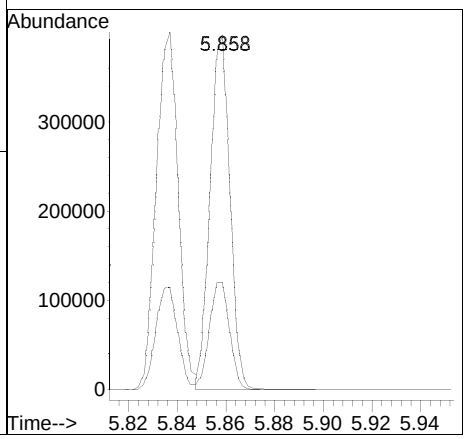


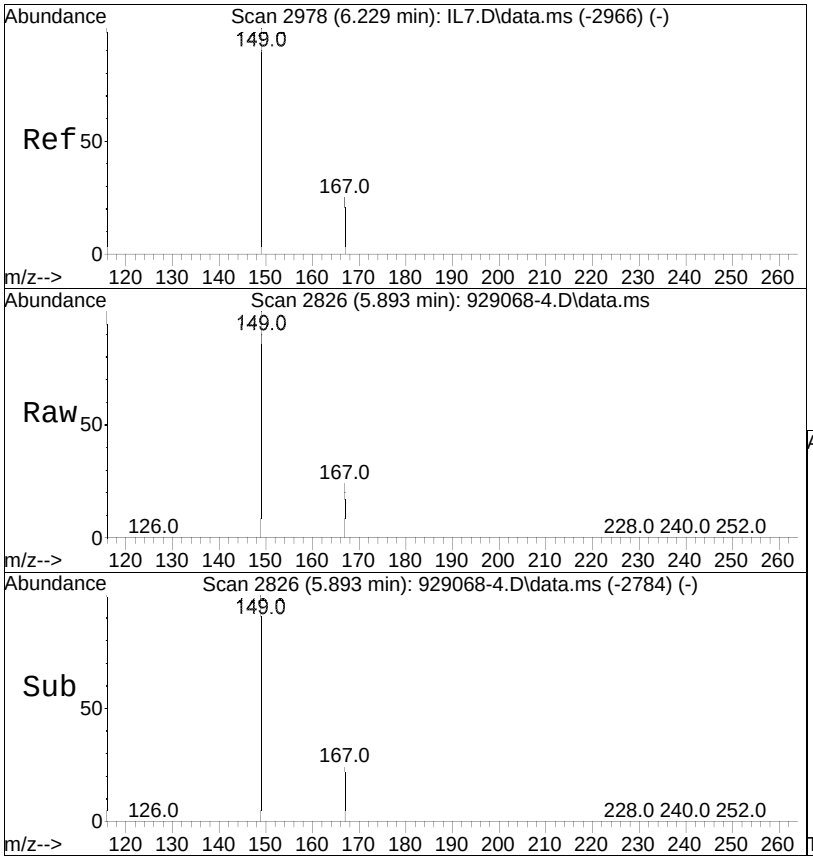


#34
Chrysene
Concen: 5711.34 ng/ml
RT: 5.858 min Scan# 2810
Delta R.T. -0.007 min
Lab File: 929068-4.D
Acq: 04 Jun 2024 11:20 am

Tgt Ion:228 Resp: 223871

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.5	36.7

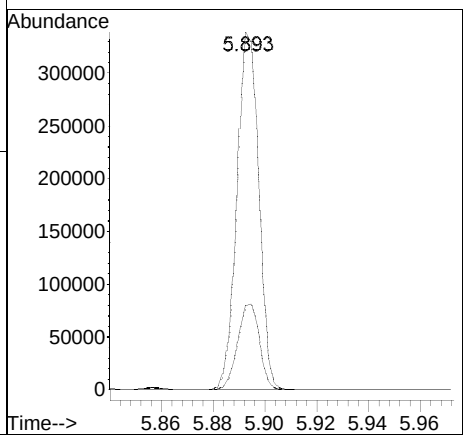


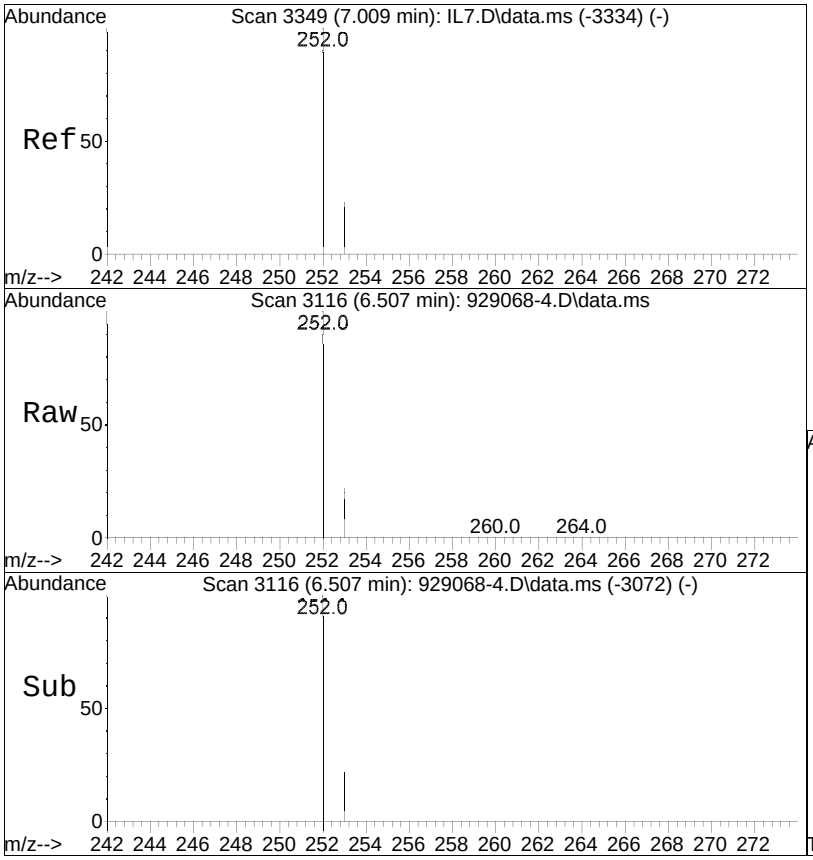


#35
Bis(2-ethylhexyl)phthalate
Concen: 7283.96 ng/ml
RT: 5.893 min Scan# 2826
Delta R.T. -0.011 min
Lab File: 929068-4.D
Acq: 04 Jun 2024 11:20 am

Tgt Ion:149 Resp: 194987

Ion	Ratio	Lower	Upper
149	100		
167	24.1	18.5	27.7

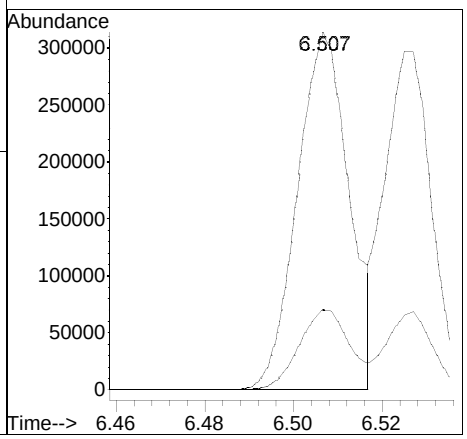


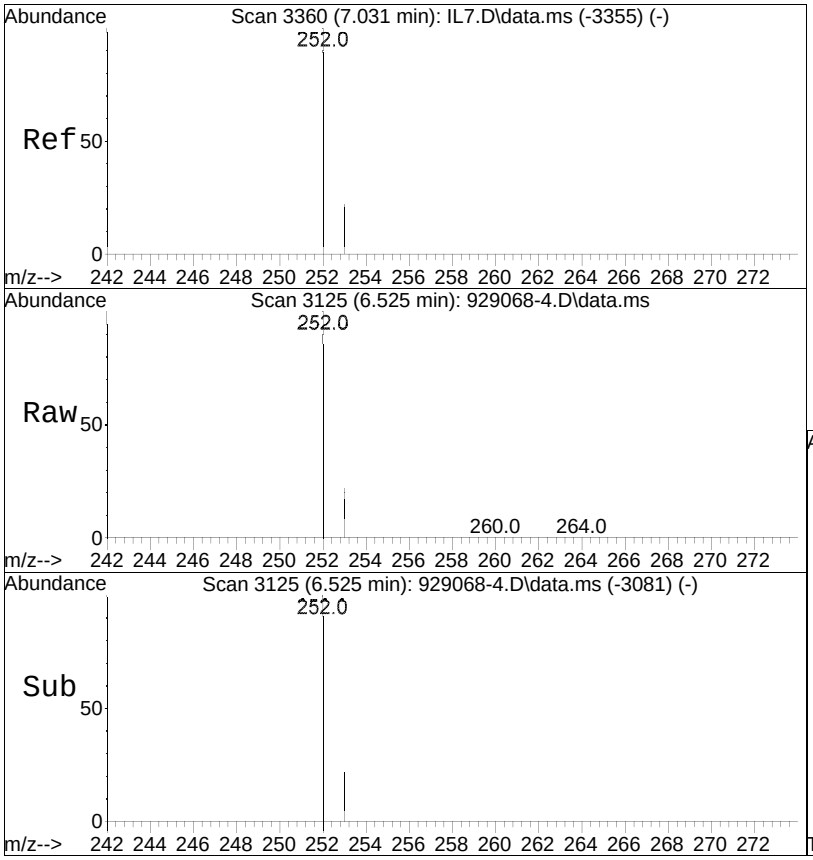


#37
Benzo[b]fluoranthene
Concen: 5217.41 ng/ml
RT: 6.507 min Scan# 3116
Delta R.T. -0.010 min
Lab File: 929068-4.D
Acq: 04 Jun 2024 11:20 am

Tgt Ion:252 Resp: 254654

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.3	25.9

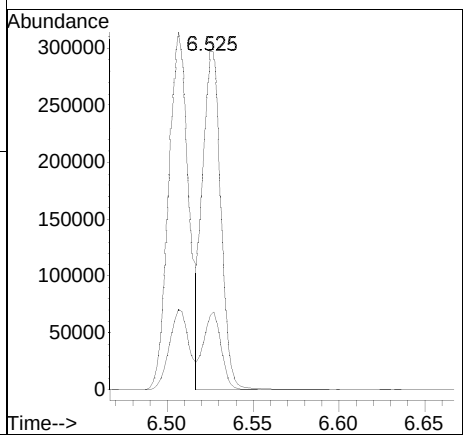


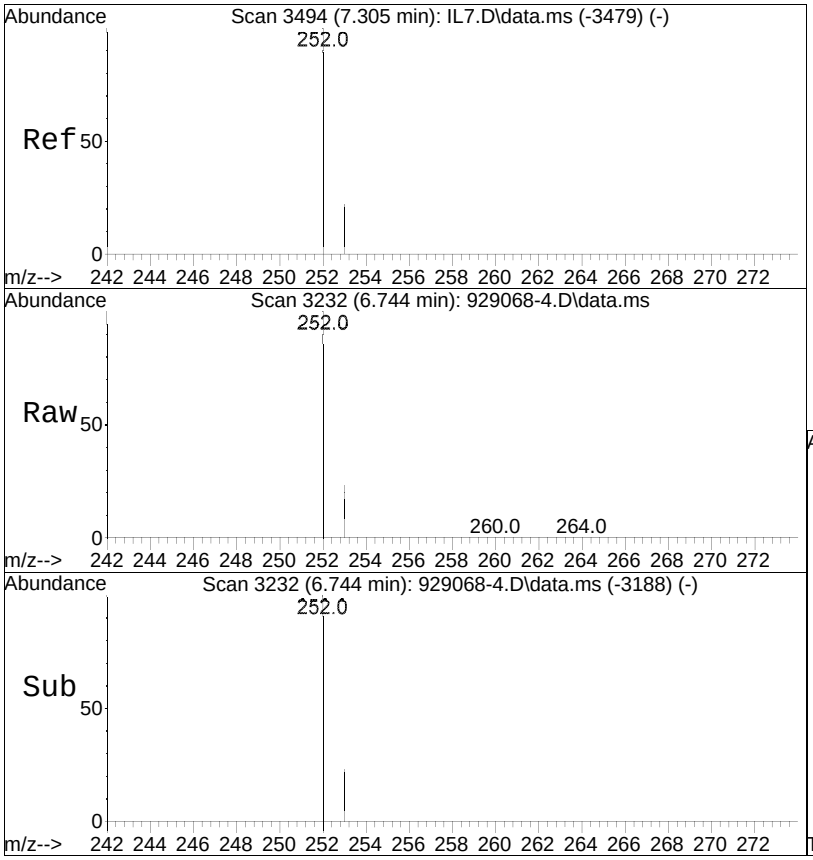


#38
Benzo[k]fluoranthene
Concen: 4724.01 ng/ml
RT: 6.525 min Scan# 3125
Delta R.T. -0.010 min
Lab File: 929068-4.D
Acq: 04 Jun 2024 11:20 am

Tgt Ion:252 Resp: 218942

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.4	26.2

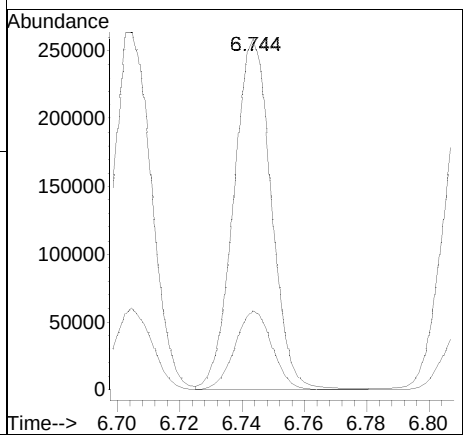


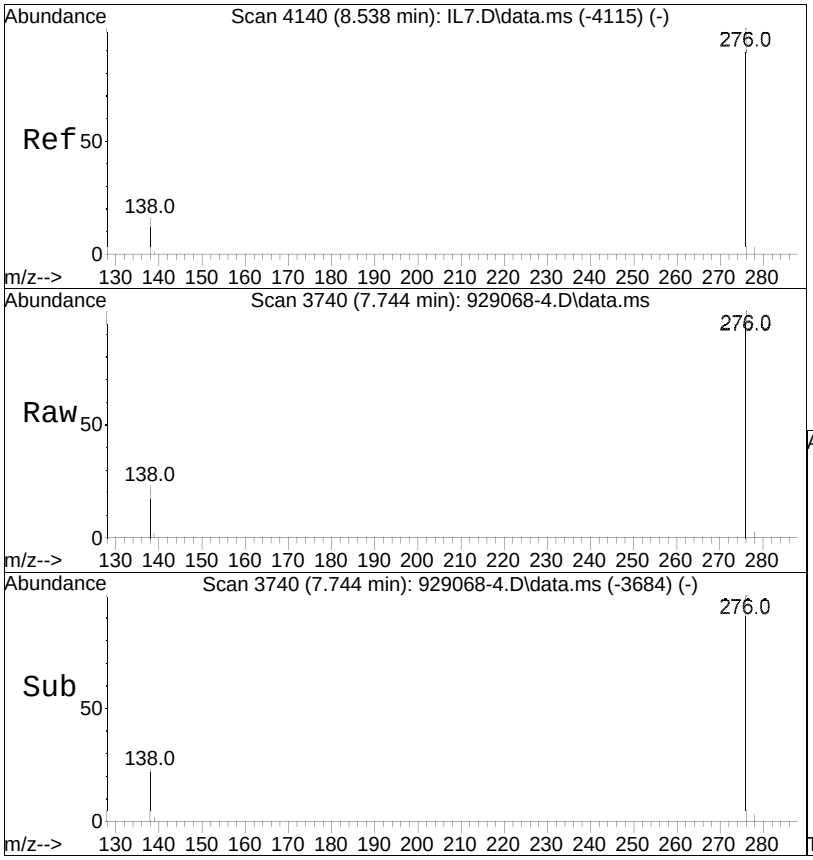


#39
Benzo[a]pyrene
Concen: 5020.10 ng/ml
RT: 6.744 min Scan# 3232
Delta R.T. -0.010 min
Lab File: 929068-4.D
Acq: 04 Jun 2024 11:20 am

Tgt Ion:252 Resp: 215674

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.4	26.0

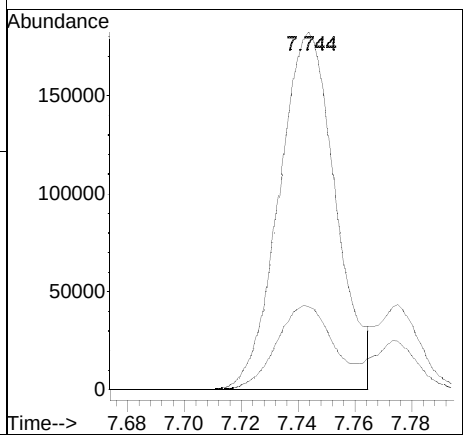


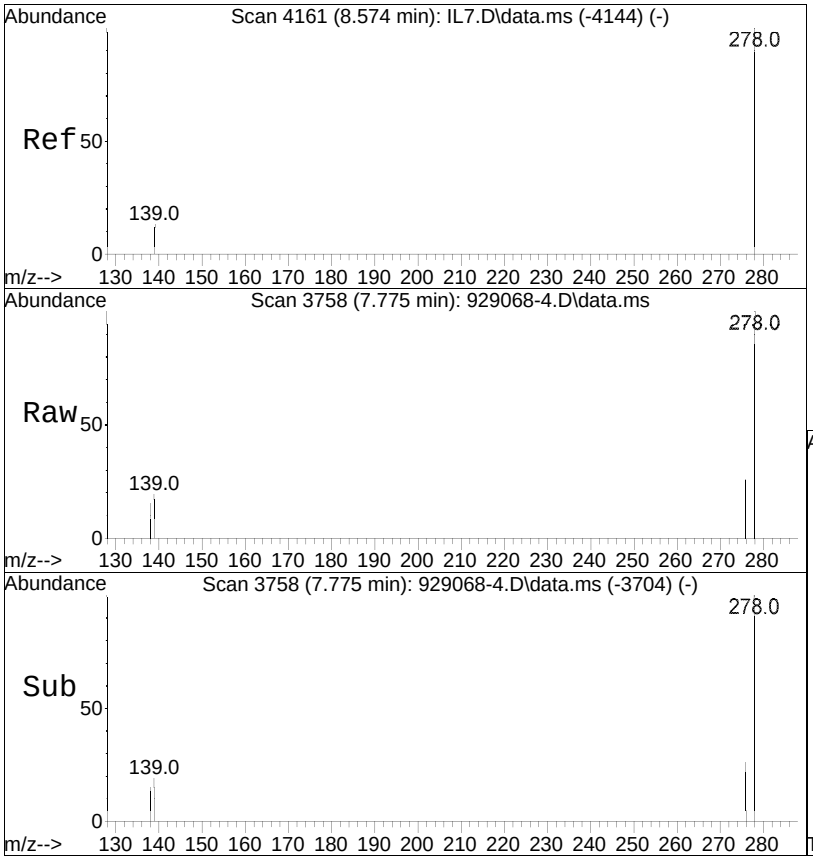


#40
Indeno[1,2,3-cd]pyrene
Concen: 5351.50 ng/ml
RT: 7.744 min Scan# 3740
Delta R.T. -0.003 min
Lab File: 929068-4.D
Acq: 04 Jun 2024 11:20 am

Tgt Ion:276 Resp: 249875

Ion	Ratio	Lower	Upper
276	100		
138	24.0	14.8	22.2#

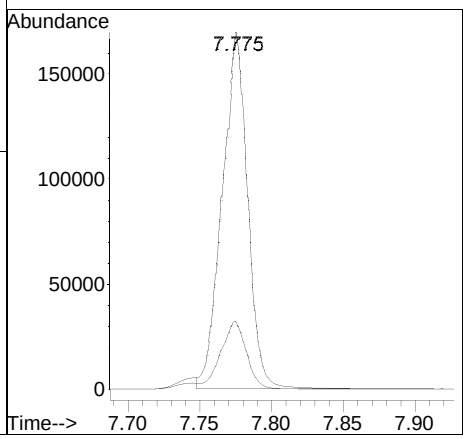


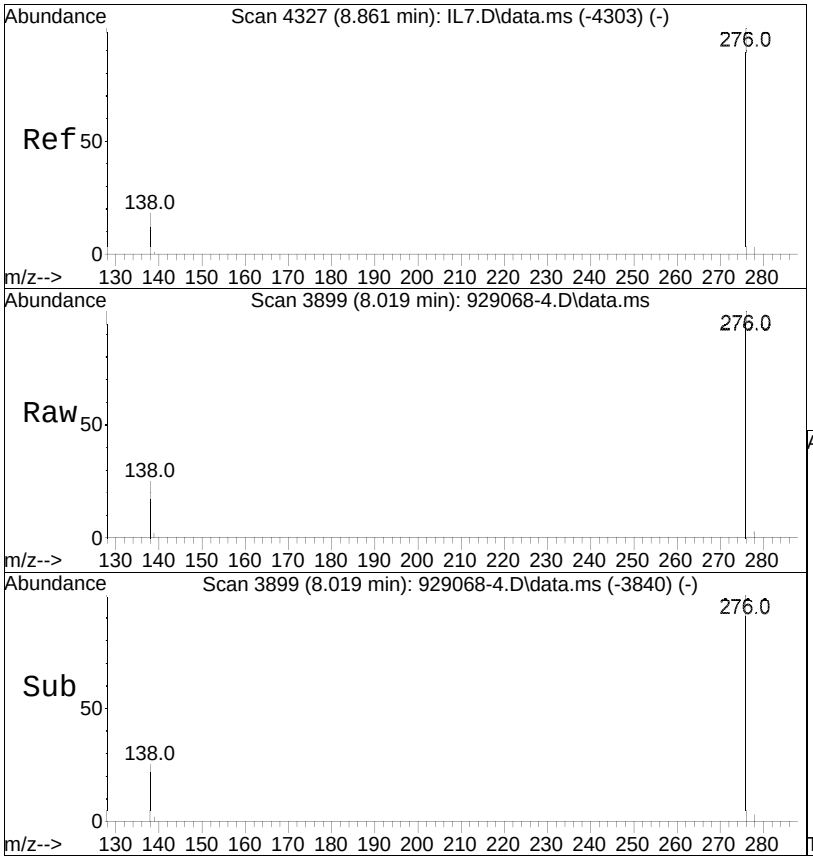


#41
Dibenzo[a,h]anthracene
Concen: 4739.74 ng/ml M6
RT: 7.775 min Scan# 3758
Delta R.T. -0.007 min
Lab File: 929068-4.D
Acq: 04 Jun 2024 11:20 am

Tgt Ion:278 Resp: 205906

Ion	Ratio	Lower	Upper
278	100		
139	19.5	12.2	18.4#

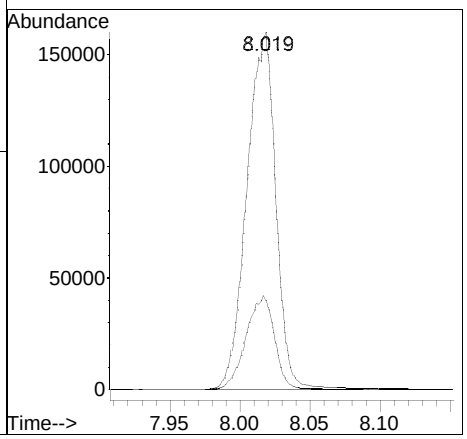




#42
Benzo[g,h,i]perylene
Concen: 4762.56 ng/ml
RT: 8.019 min Scan# 3899
Delta R.T. 0.002 min
Lab File: 929068-4.D
Acq: 04 Jun 2024 11:20 am

Tgt Ion:276 Resp: 226199

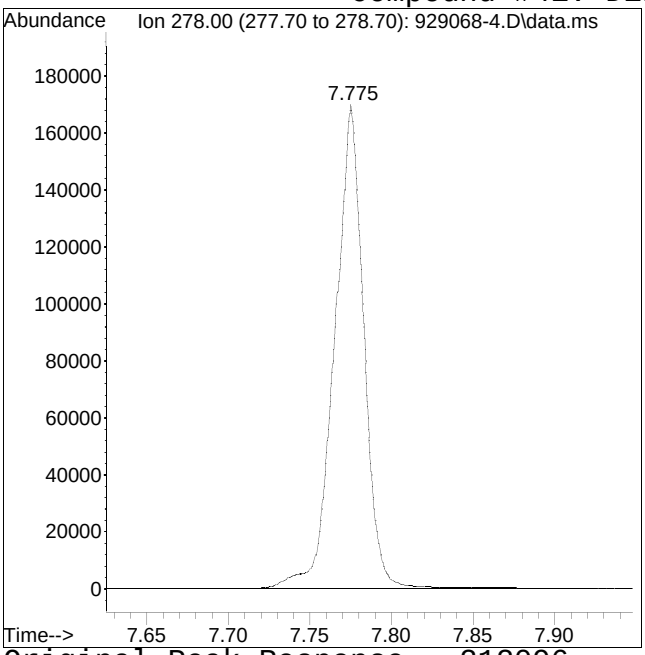
Ion	Ratio	Lower	Upper
276	100		
138	26.0	16.8	25.2#



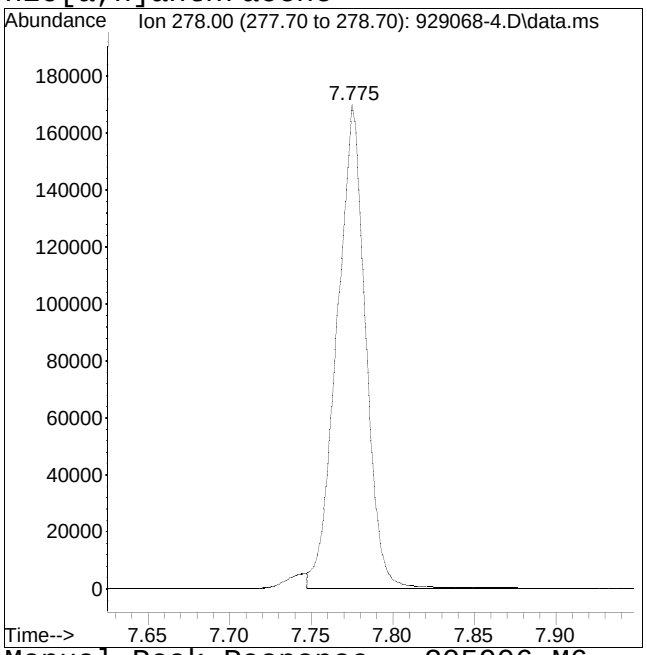
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 929068-4.D Operator : sv119:rp
Date Inj'd : 6/4/2024 11:20 am Instrument : SV119
Sample : WG1929068-4,32,,ah Quant Date : 6/4/2024 11:36 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 212096



Manual Peak Response = 205906 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 929068-6.D
Acq On : 04 Jun 2024 12:10 pm
Operator : sv119:jjw
Sample : WG1929068-6,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 06 12:33:52 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240604LVI\ccv0604.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.909	152	48340	4000.000	ng/ml	0.00
Standard Area 1 = 56492			Recovery = 85.57%			
8) Naphthalene-d8	2.550	136	165202	4000.000	ng/ml	0.00
Standard Area 1 = 186100			Recovery = 88.77%			
17) Acenaphthene-d10	3.500	164	83365	4000.000	ng/ml	0.00
Standard Area 1 = 98337			Recovery = 84.77%			
22) Phenanthrene-d10	4.320	188	179367	4000.000	ng/ml	0.00
Standard Area 1 = 215749			Recovery = 83.14%			
31) Chrysene-d12	5.841	240	137150	4000.000	ng/ml	0.00
Standard Area 1 = 188074			Recovery = 72.92%			
36) Perylene-d12	6.788	264	157856	4000.000	ng/ml	-0.01
Standard Area 1 = 198758			Recovery = 79.42%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.344	112	52561	3975.330	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 79.51%			
3) Phenol-d6	1.744	99	56859	3587.573	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 71.75%			
7) Nitrobenzene-d5	2.183	82	30993	2578.017	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 103.12%			
13) 2-Fluorobiphenyl	3.139	172	74350	2015.124	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 80.60%			
21) 2,4,6-Tribromophenol	3.938	330	31437	6840.010	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 136.80%#			
30) 4-Terphenyl-d14	5.230	244	77676	1766.524	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 70.66%			
Target Compounds						Qvalue
6) Hexachloroethane	2.156	117	25433	4253.021	ng/ml	90
9) Naphthalene	2.562	128	171116	4337.879	ng/ml	100
10) Hexachlorobutadiene	2.637	225	38881	4576.812	ng/ml	100
11) 2-Methylnaphthalene	2.933	142	122604	4203.575	ng/ml	97
14) 2-Chloronaphthalene	3.195	162	129977	4183.571	ng/ml	91
16) Acenaphthylene	3.420	152	195385	4231.910	ng/ml	100
18) Acenaphthene	3.518	153	126099	4892.899	ng/ml	98
20) Fluorene	3.802	166	149940	4867.341	ng/ml	97
24) Hexachlorobenzene	4.113	284	65106	5614.690	ng/ml	100
25) Pentachlorophenol	4.225	266	43671	5895.703	ng/ml	100

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 929068-6.D
Acq On : 04 Jun 2024 12:10 pm
Operator : sv119:jjw
Sample : WG1929068-6,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 06 12:33:52 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240604LVI\ccv0604.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.332	178	229722	5041.928	ng/ml	100
27) Anthracene	4.359	178	232334	5142.122	ng/ml	100
28) Fluoranthene	5.000	202	279521	4654.859	ng/ml	100
29) Pyrene	5.126	202	285049	4620.525	ng/ml	100
32) Benzo[a]anthracene	5.835	228	271077	5945.600	ng/ml	100
34) Chrysene	5.856	228	245517	5424.030	ng/ml	99
37) Benzo[b]fluoranthene	6.504	252	275549	4996.543	ng/ml	99
38) Benzo[k]fluoranthene	6.523	252	234833	4484.430	ng/ml	99
39) Benzo[a]pyrene	6.741	252	230571	4749.912	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	7.746	276	261341	4953.669	ng/ml#	88
41) Dibenzo[a,h]anthracene	7.772	278	217273M6	4426.471	ng/ml	
42) Benzo[g,h,i]perylene	8.014	276	237534	4426.307	ng/ml#	90

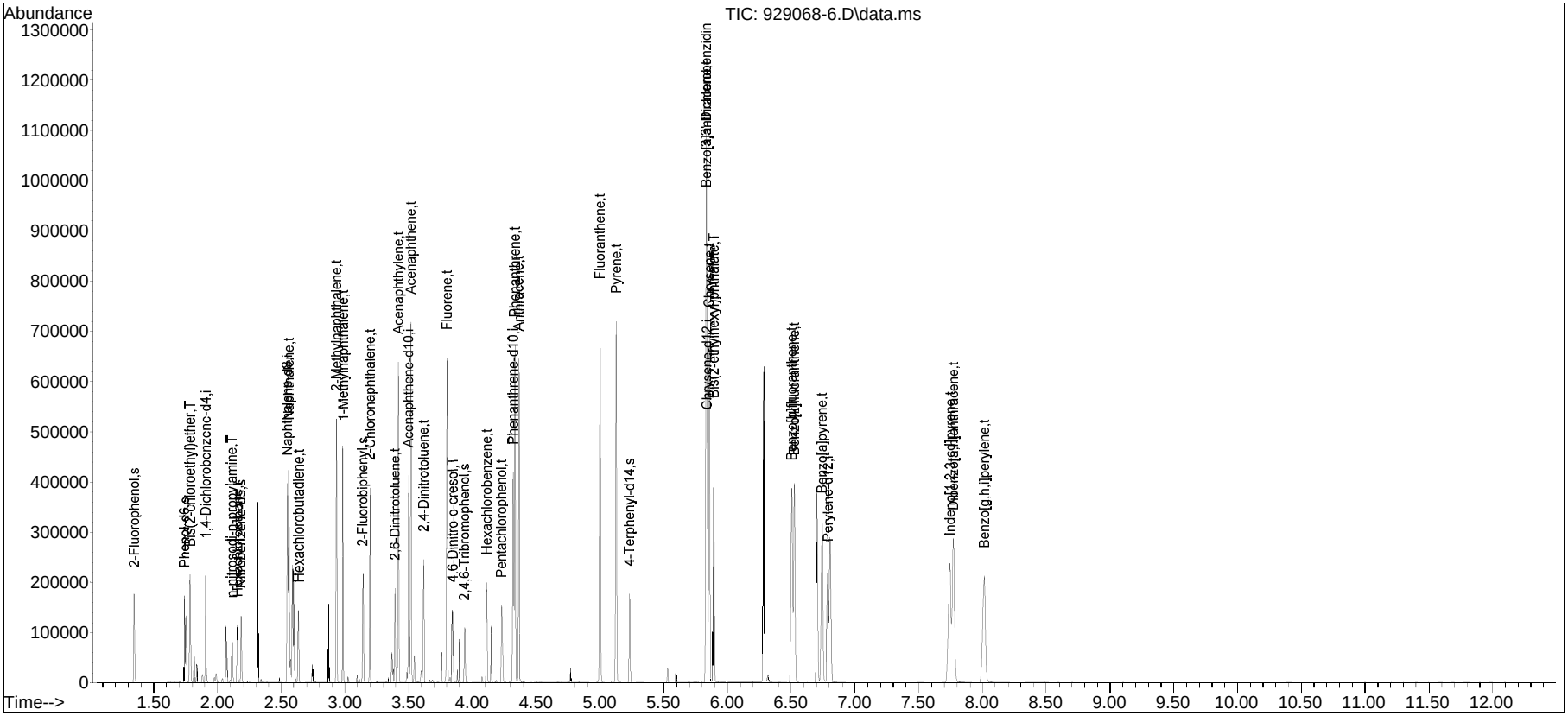
(#) = qualifier out of range (m) = manual integration (+) = signals summed

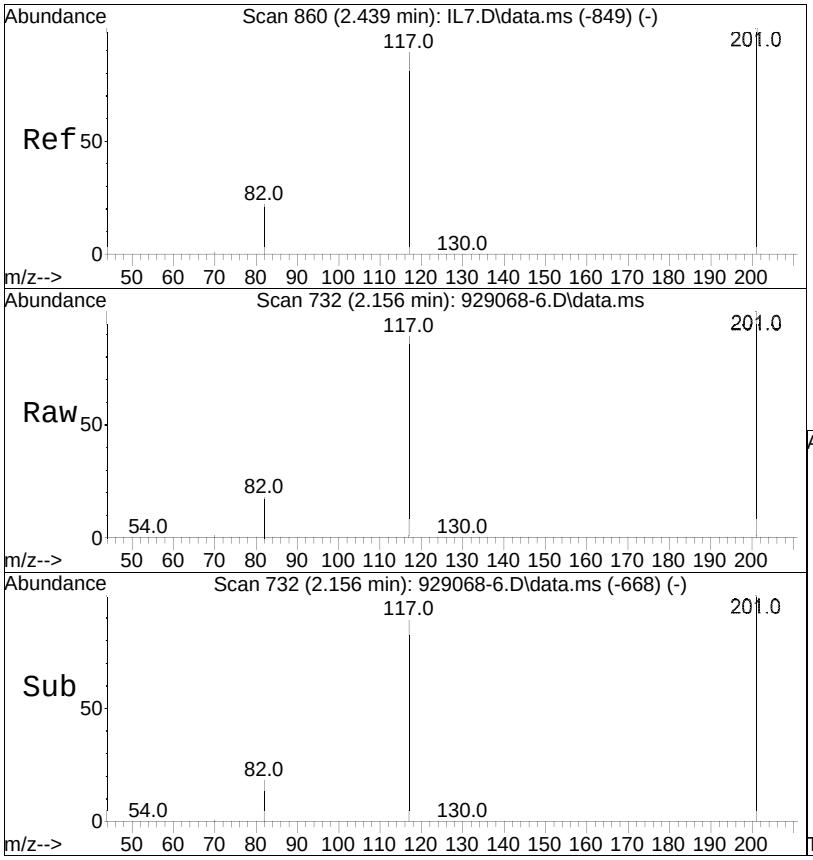
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 929068-6.D
Acq On : 04 Jun 2024 12:10 pm
Operator : sv119:jjw
Sample : WG1929068-6,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 06 12:33:52 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0604.D•

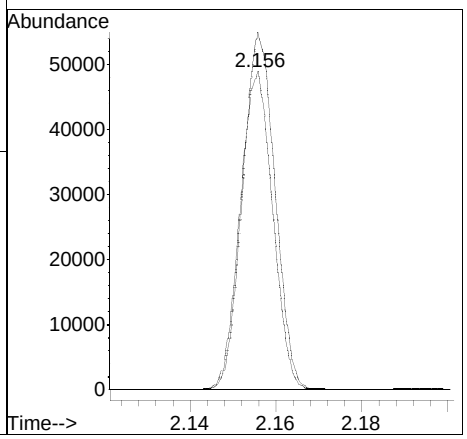


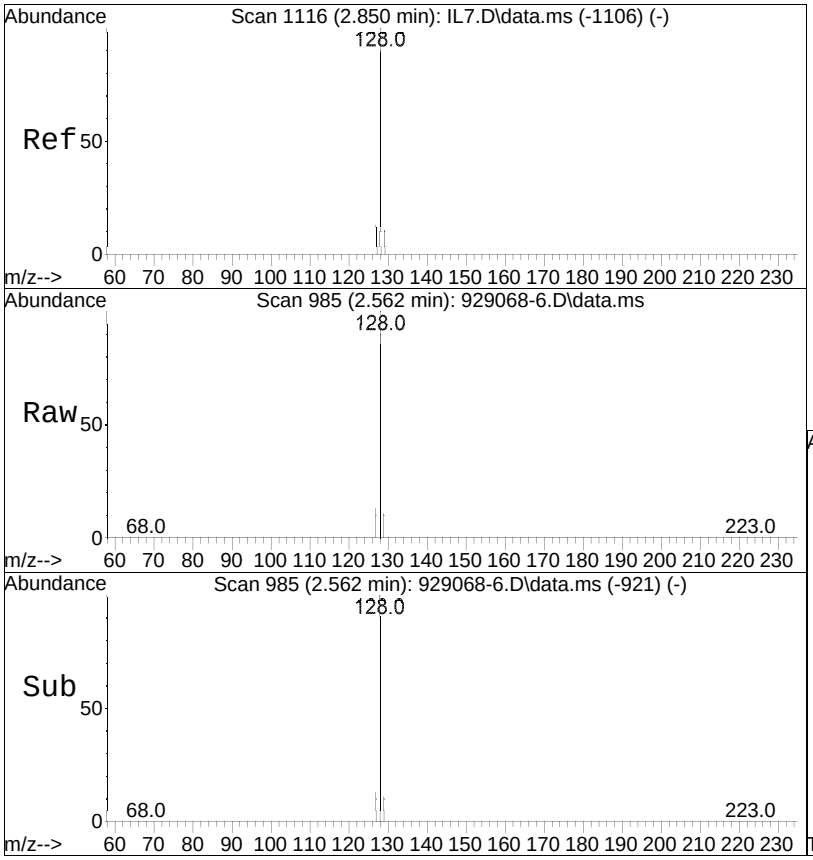


#6
Hexachloroethane
Concen: 4253.02 ng/ml
RT: 2.156 min Scan# 732
Delta R.T. 0.003 min
Lab File: 929068-6.D
Acq: 04 Jun 2024 12:10 pm

Tgt Ion:117 Resp: 25433

Ion	Ratio	Lower	Upper
117	100		
201	111.7	81.5	122.3

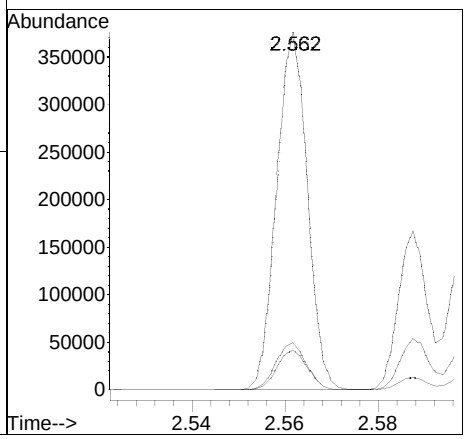


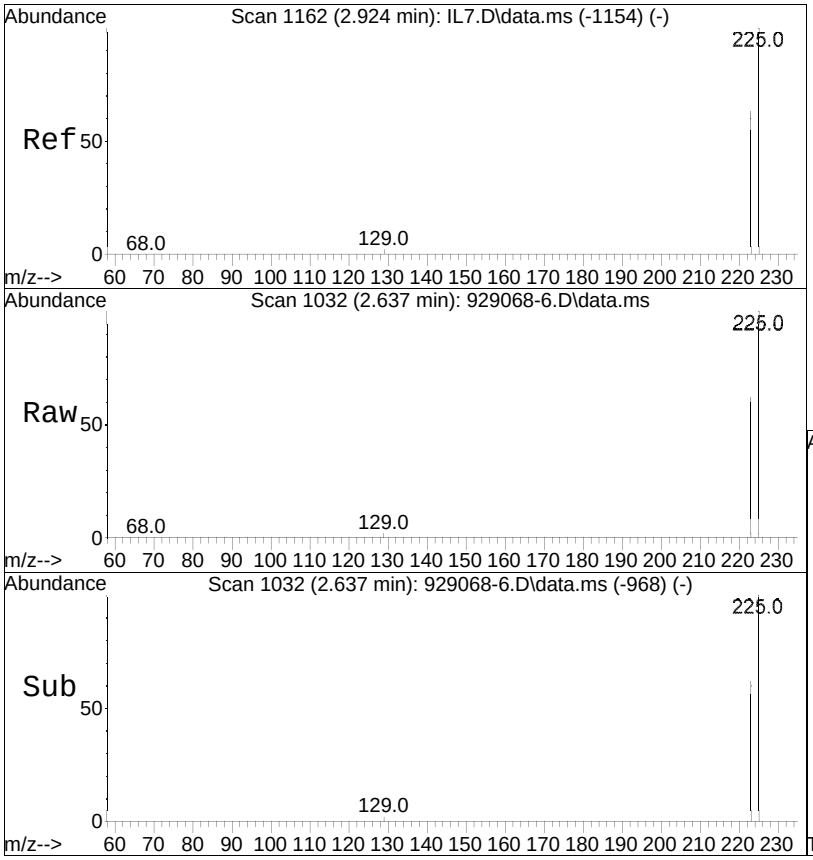


#9
Naphthalene
Concen: 4337.88 ng/ml
RT: 2.562 min Scan# 985
Delta R.T. 0.003 min
Lab File: 929068-6.D
Acq: 04 Jun 2024 12:10 pm

Tgt Ion:128 Resp: 171116

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	13.1	10.6	15.8

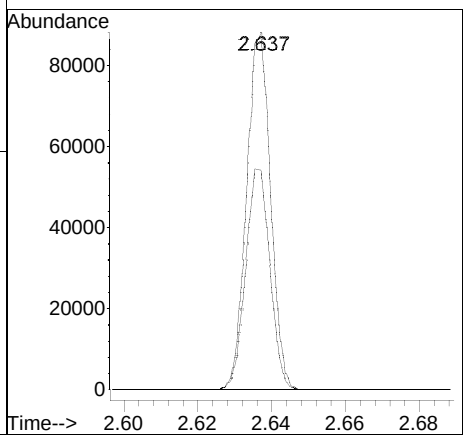


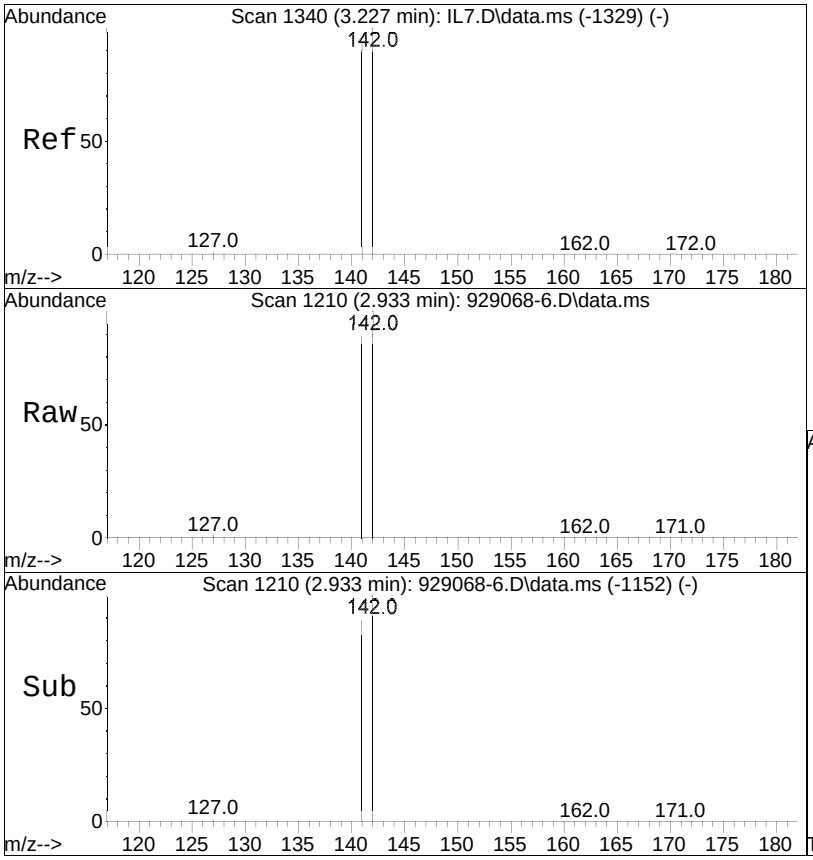


#10
Hexachlorobutadiene
Concen: 4576.81 ng/ml
RT: 2.637 min Scan# 1032
Delta R.T. 0.003 min
Lab File: 929068-6.D
Acq: 04 Jun 2024 12:10 pm

Tgt Ion:225 Resp: 38881

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.1	75.1

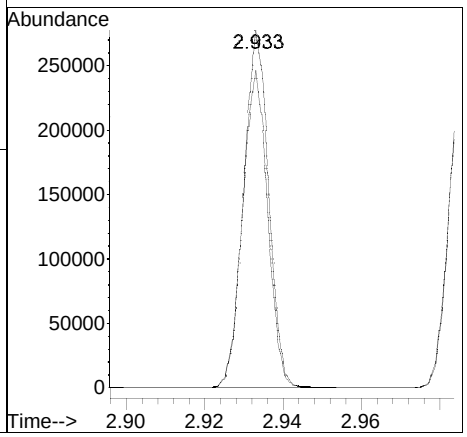


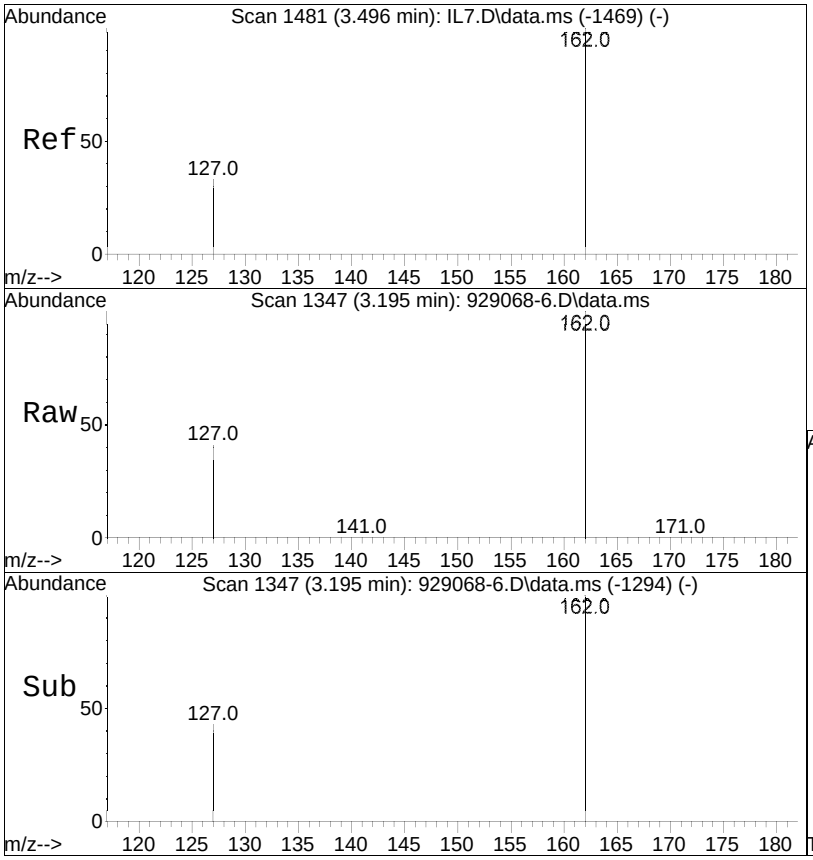


#11
2-Methylnaphthalene
Concen: 4203.57 ng/ml
RT: 2.933 min Scan# 1210
Delta R.T. 0.004 min
Lab File: 929068-6.D
Acq: 04 Jun 2024 12:10 pm

Tgt Ion:142 Resp: 122604

Ion	Ratio	Lower	Upper
142	100		
141	89.5	74.1	111.1

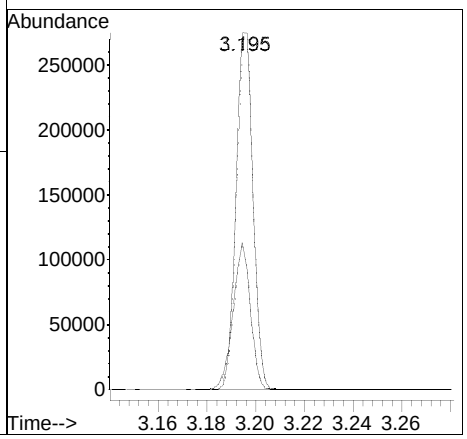


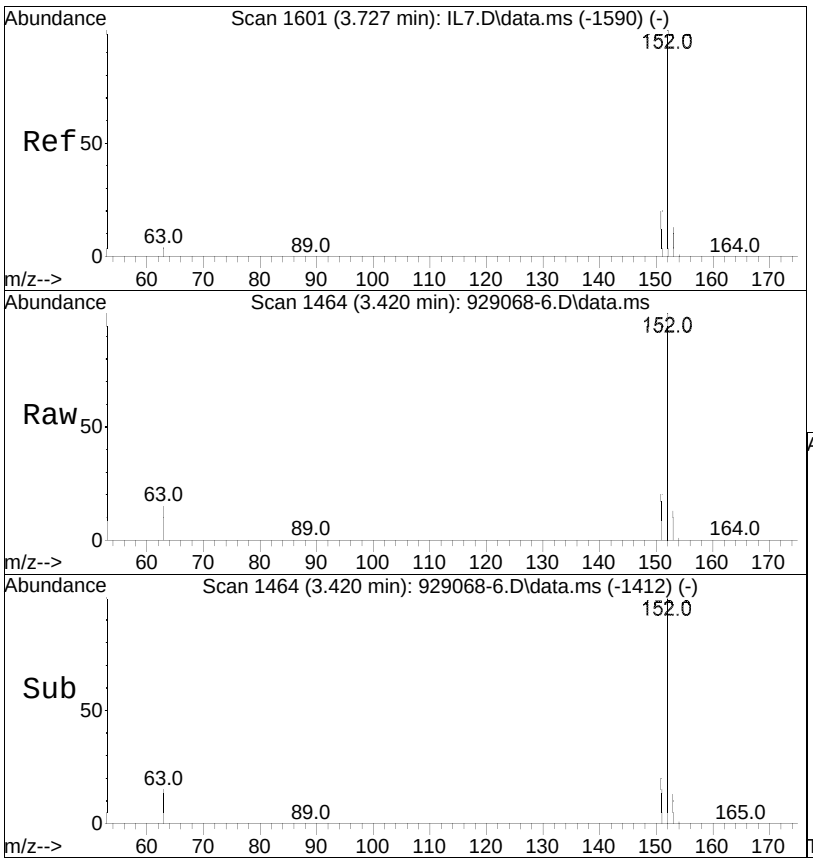


#14
2-Chloronaphthalene
Concen: 4183.57 ng/ml
RT: 3.195 min Scan# 1347
Delta R.T. 0.002 min
Lab File: 929068-6.D
Acq: 04 Jun 2024 12:10 pm

Tgt Ion:162 Resp: 129977

Ion	Ratio	Lower	Upper
162	100		
127	42.4	29.7	44.5

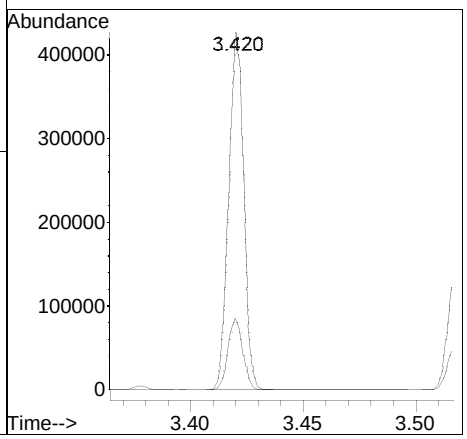


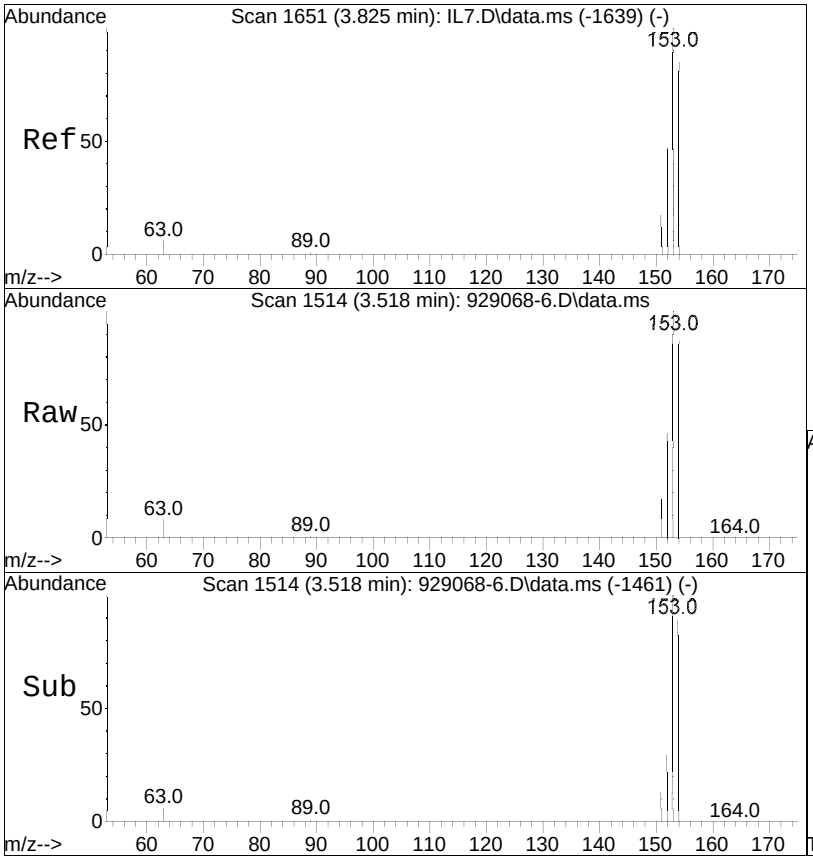


#16
Acenaphthylene
Concen: 4231.91 ng/ml
RT: 3.420 min Scan# 1464
Delta R.T. 0.002 min
Lab File: 929068-6.D
Acq: 04 Jun 2024 12:10 pm

Tgt Ion:152 Resp: 195385

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.0	24.0

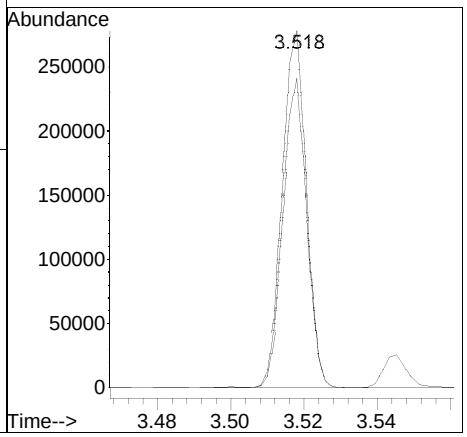


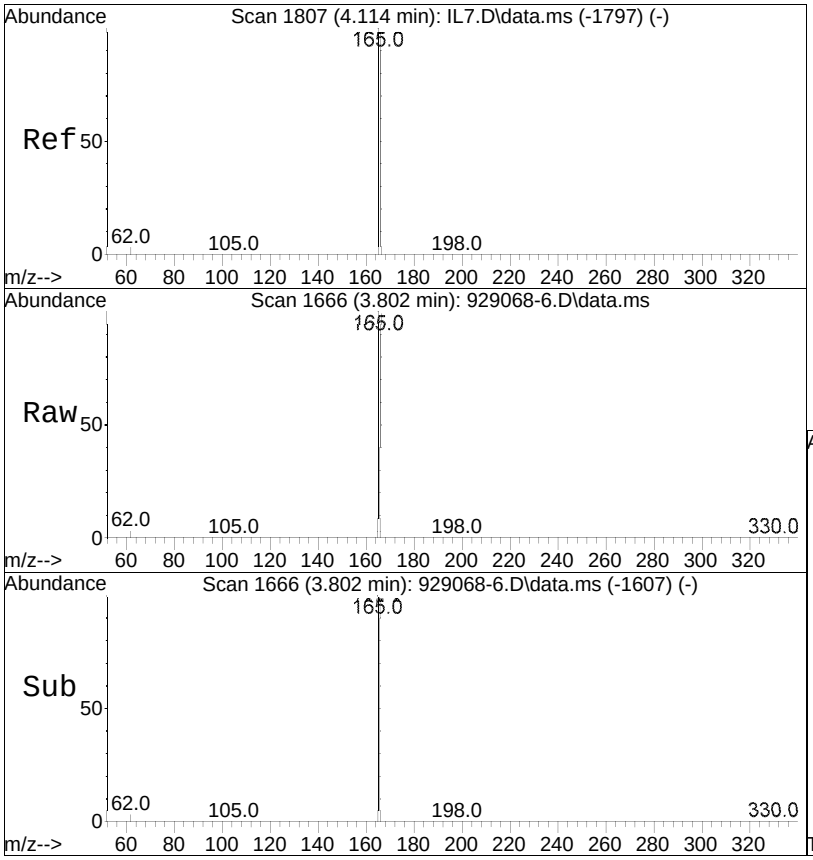


#18
Acenaphthene
Concen: 4892.90 ng/ml
RT: 3.518 min Scan# 1514
Delta R.T. 0.004 min
Lab File: 929068-6.D
Acq: 04 Jun 2024 12:10 pm

Tgt Ion:153 Resp: 126099

Ion	Ratio	Lower	Upper
153	100		
154	85.2	66.9	100.3

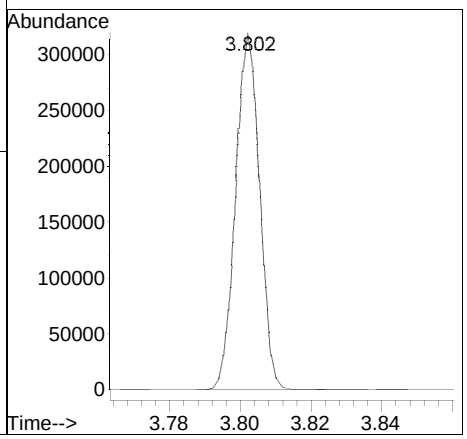


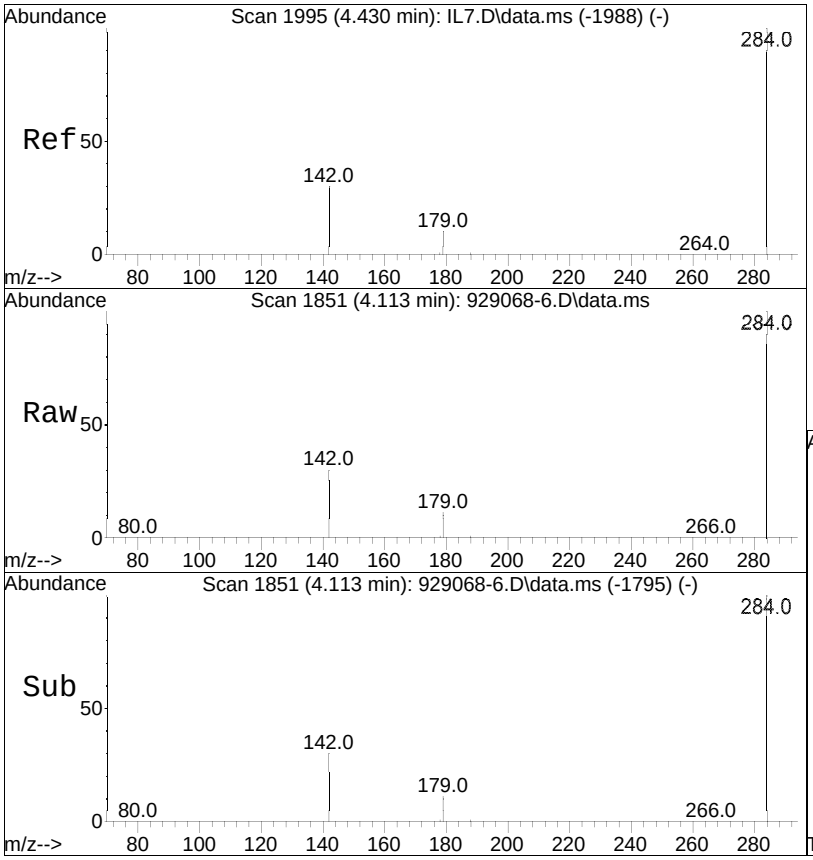


#20
Fluorene
Concen: 4867.34 ng/ml
RT: 3.802 min Scan# 1666
Delta R.T. 0.002 min
Lab File: 929068-6.D
Acq: 04 Jun 2024 12:10 pm

Tgt Ion:166 Resp: 149940

Ion	Ratio	Lower	Upper
166	100		
165	100.7	82.9	124.3

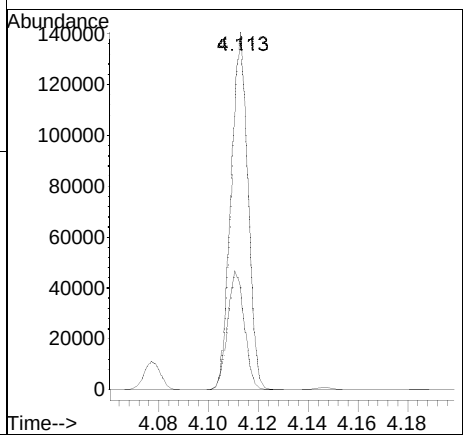


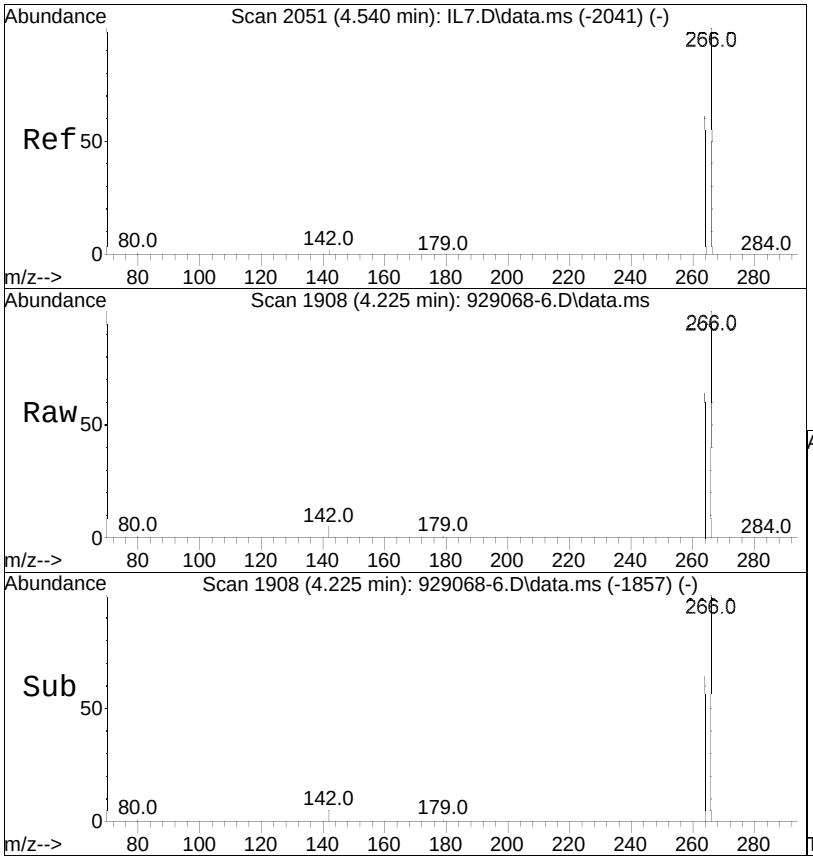


#24
Hexachlorobenzene
Concen: 5614.69 ng/ml
RT: 4.113 min Scan# 1851
Delta R.T. 0.002 min
Lab File: 929068-6.D
Acq: 04 Jun 2024 12:10 pm

Tgt Ion:284 Resp: 65106

Ion	Ratio	Lower	Upper
284	100		
142	33.6	26.9	40.3

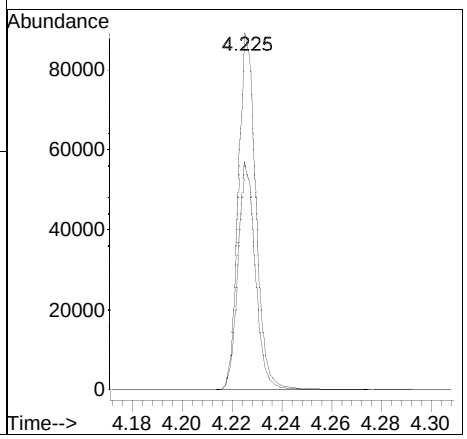


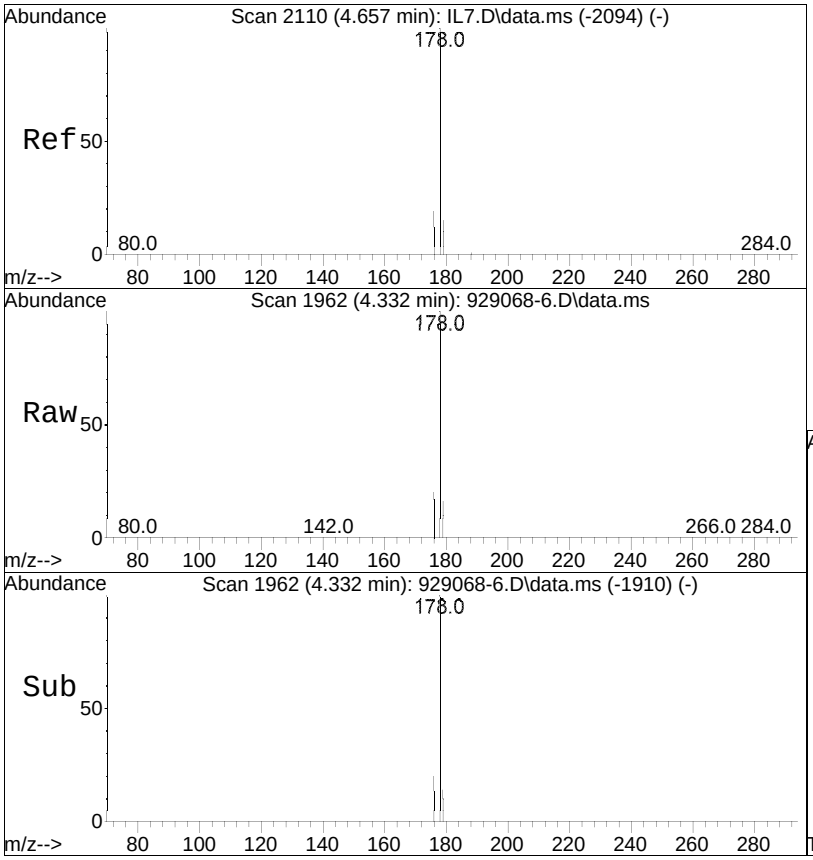


#25
Pentachlorophenol
Concen: 5895.70 ng/ml
RT: 4.225 min Scan# 1908
Delta R.T. -0.000 min
Lab File: 929068-6.D
Acq: 04 Jun 2024 12:10 pm

Tgt Ion:266 Resp: 43671

Ion	Ratio	Lower	Upper
266	100		
264	63.1	50.7	76.1

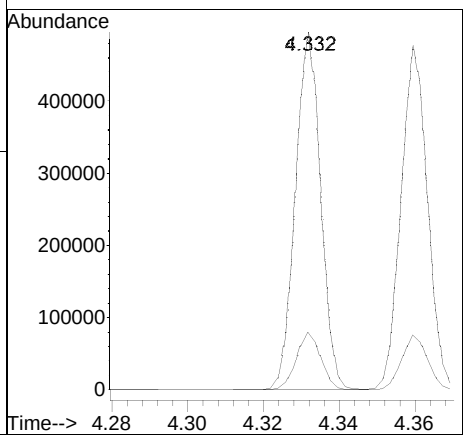


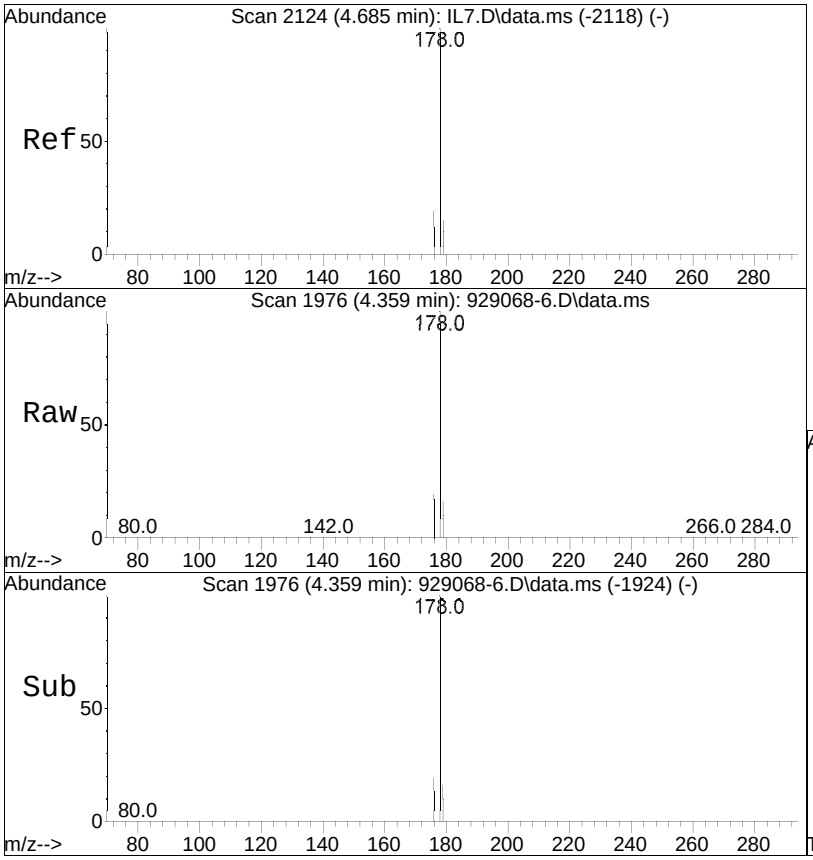


#26
Phenanthrene
Concen: 5041.93 ng/ml
RT: 4.332 min Scan# 1962
Delta R.T. 0.002 min
Lab File: 929068-6.D
Acq: 04 Jun 2024 12:10 pm

Tgt Ion:178 Resp: 229722

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.3	18.5

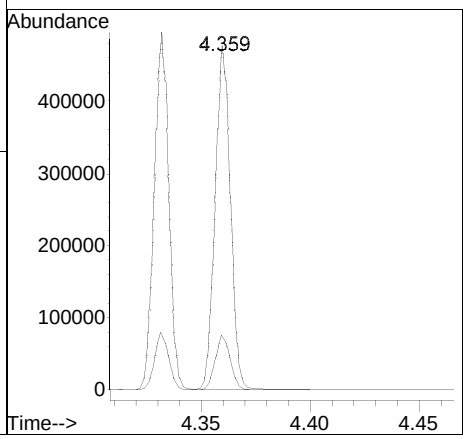


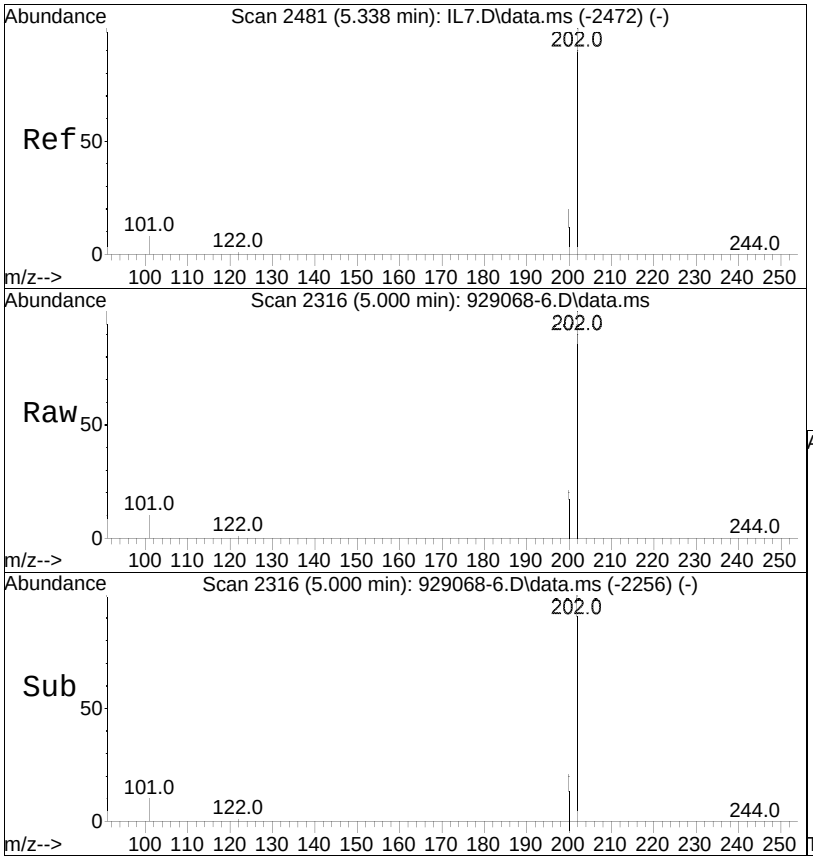


#27
Anthracene
Concen: 5142.12 ng/ml
RT: 4.359 min Scan# 1976
Delta R.T. 0.002 min
Lab File: 929068-6.D
Acq: 04 Jun 2024 12:10 pm

Tgt Ion:178 Resp: 232334

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.2	18.4

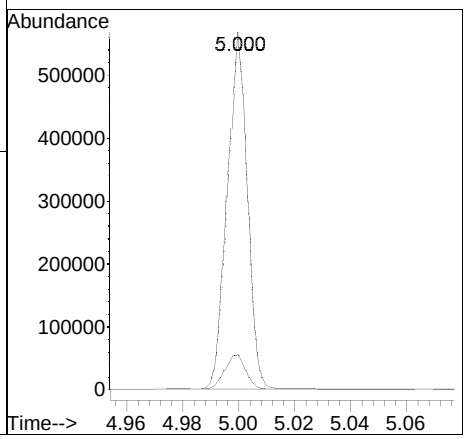


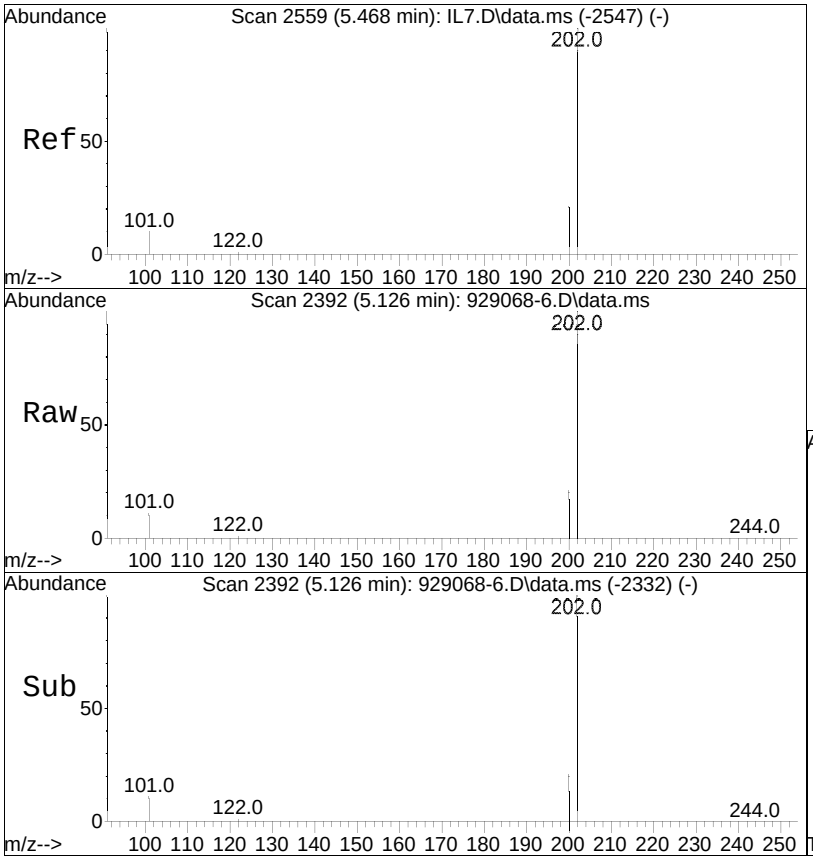


#28
Fluoranthene
Concen: 4654.86 ng/ml
RT: 5.000 min Scan# 2316
Delta R.T. -0.000 min
Lab File: 929068-6.D
Acq: 04 Jun 2024 12:10 pm

Tgt Ion:202 Resp: 279521

Ion	Ratio	Lower	Upper
202	100		
101	10.4	8.3	12.5

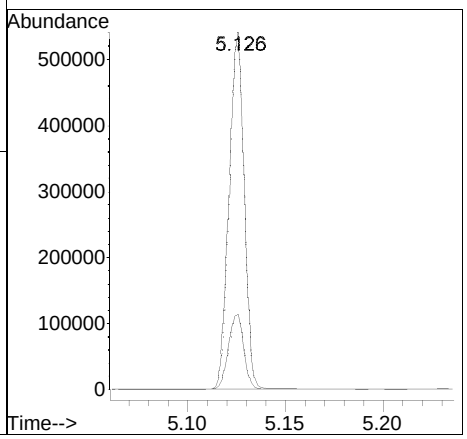


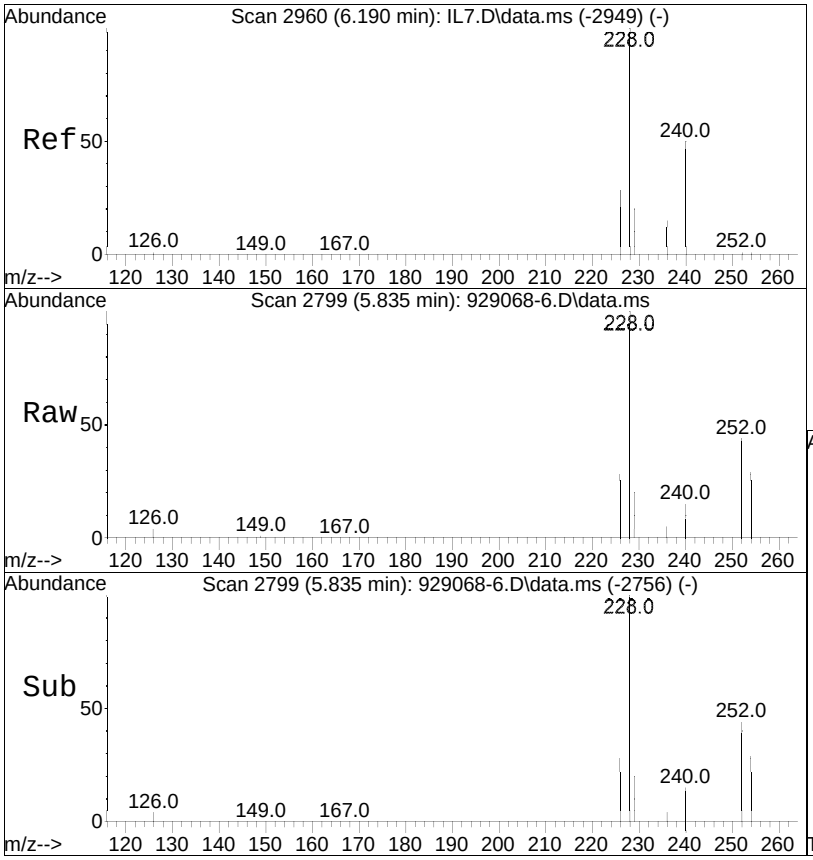


#29
Pyrene
Concen: 4620.53 ng/ml
RT: 5.126 min Scan# 2392
Delta R.T. -0.000 min
Lab File: 929068-6.D
Acq: 04 Jun 2024 12:10 pm

Tgt Ion:202 Resp: 285049

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.3	25.9

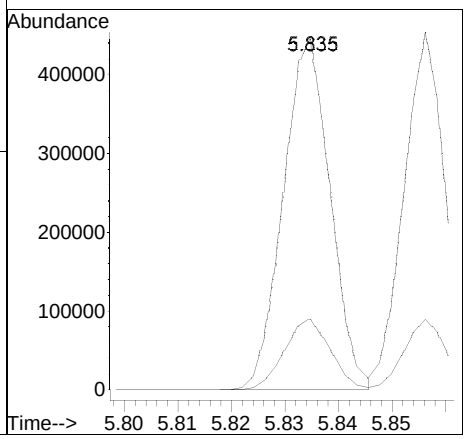


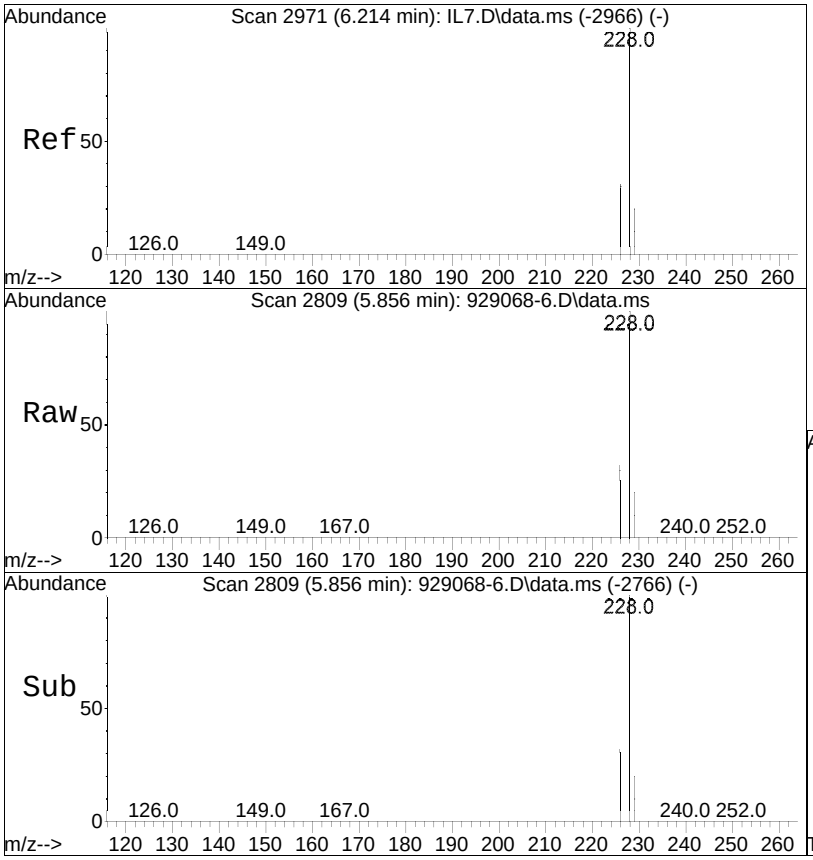


#32
Benzo[a]anthracene
Concen: 5945.60 ng/ml
RT: 5.835 min Scan# 2799
Delta R.T. -0.009 min
Lab File: 929068-6.D
Acq: 04 Jun 2024 12:10 pm

Tgt Ion:228 Resp: 271077

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.6	23.4

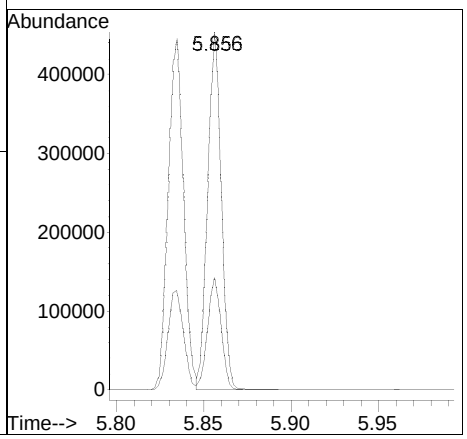


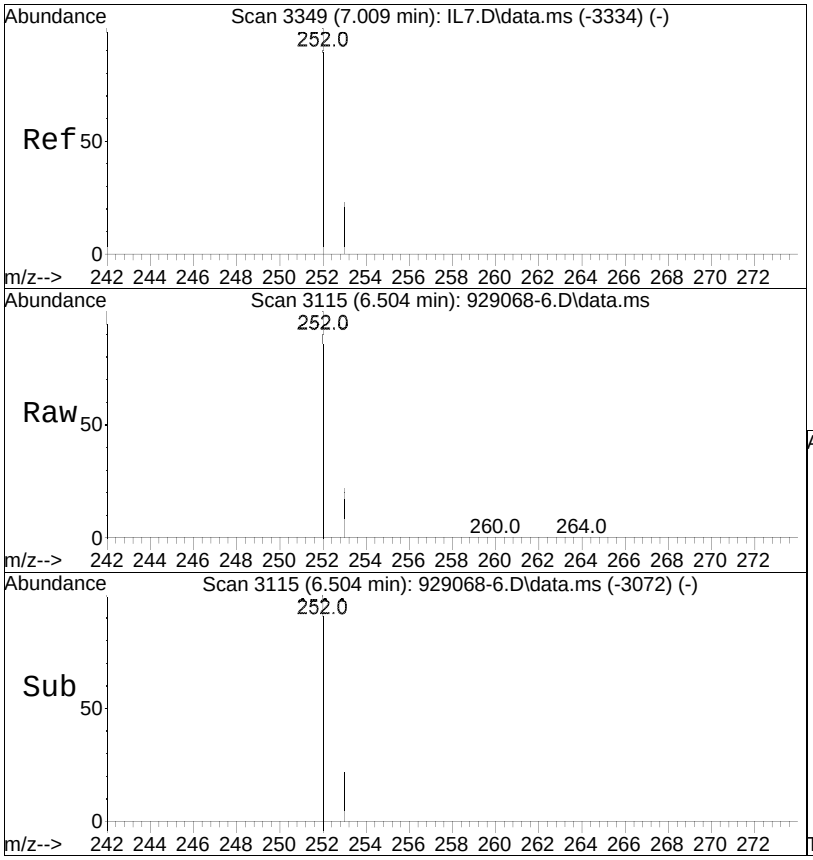


#34
Chrysene
Concen: 5424.03 ng/ml
RT: 5.856 min Scan# 2809
Delta R.T. -0.009 min
Lab File: 929068-6.D
Acq: 04 Jun 2024 12:10 pm

Tgt Ion:228 Resp: 245517

Ion	Ratio	Lower	Upper
228	100		
226	31.3	24.5	36.7

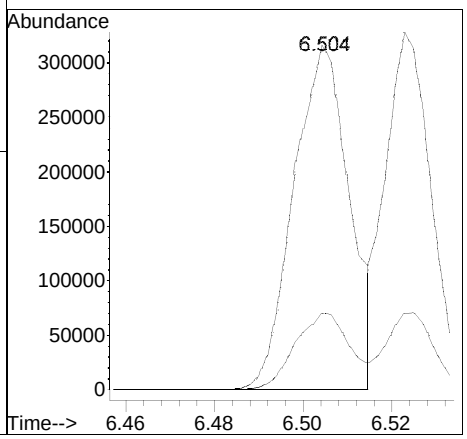


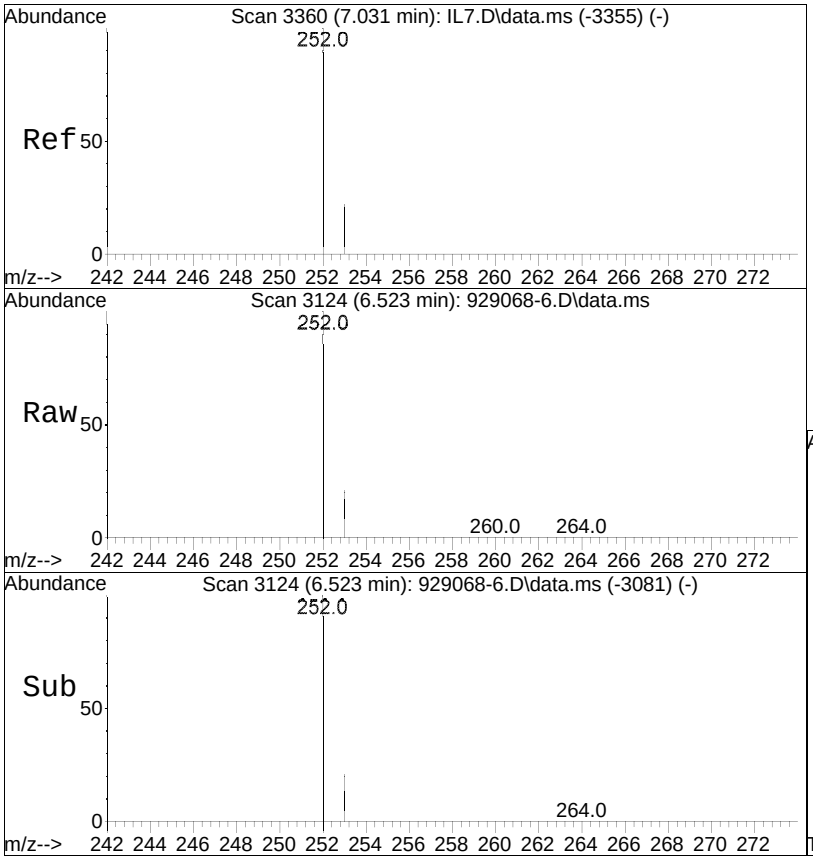


#37
Benzo[b]fluoranthene
Concen: 4996.54 ng/ml
RT: 6.504 min Scan# 3115
Delta R.T. -0.012 min
Lab File: 929068-6.D
Acq: 04 Jun 2024 12:10 pm

Tgt Ion:252 Resp: 275549

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.3	25.9

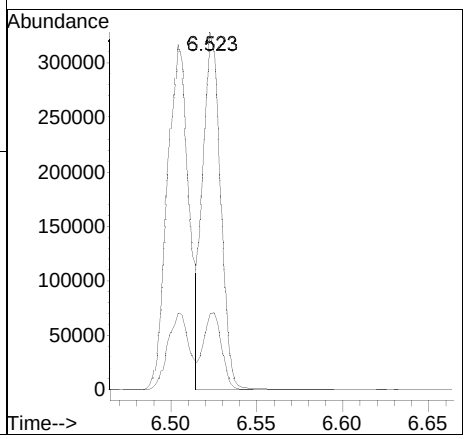


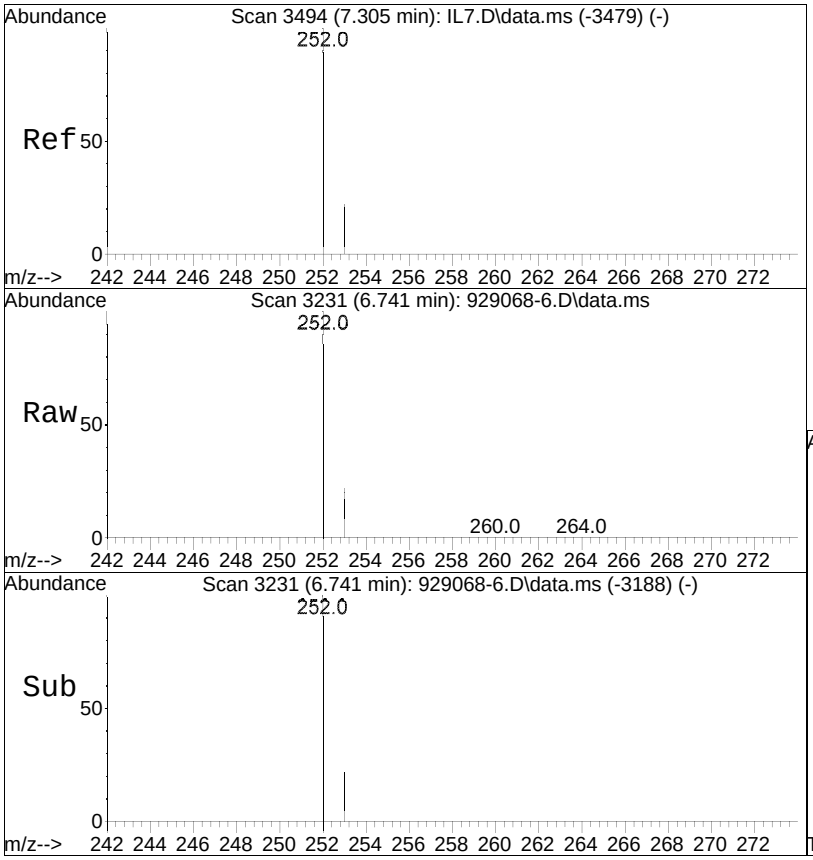


#38
Benzo[k]fluoranthene
Concen: 4484.43 ng/ml
RT: 6.523 min Scan# 3124
Delta R.T. -0.012 min
Lab File: 929068-6.D
Acq: 04 Jun 2024 12:10 pm

Tgt Ion:252 Resp: 234833

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.4	26.2

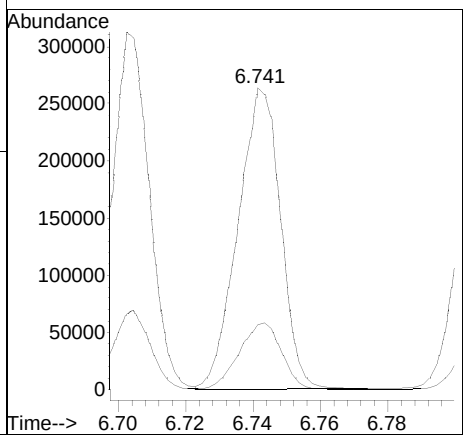


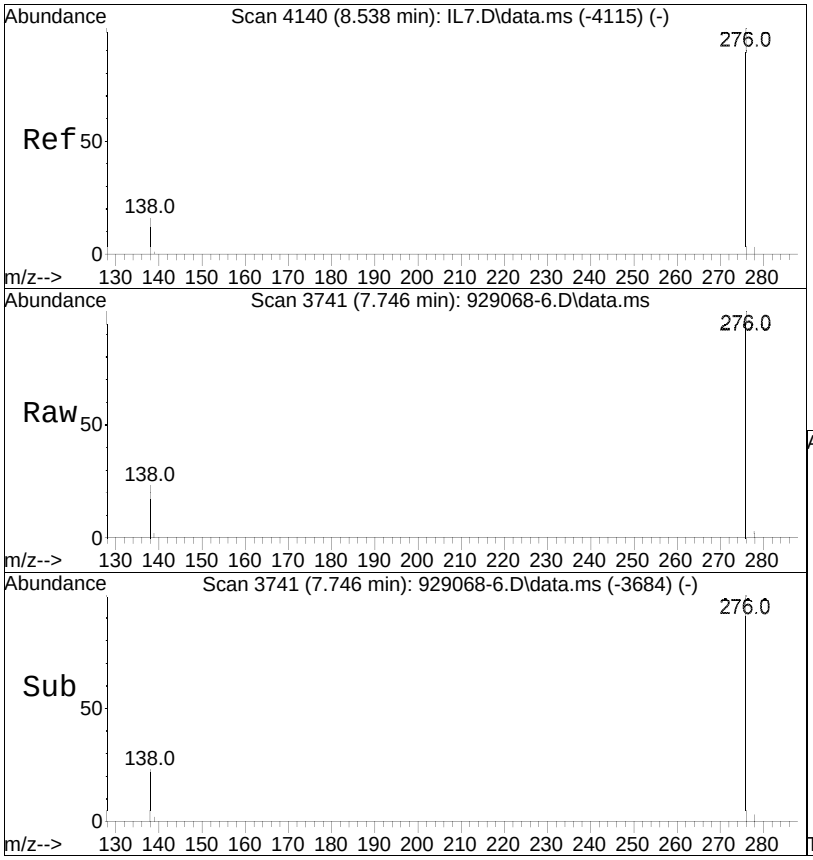


#39
Benzo[a]pyrene
Concen: 4749.91 ng/ml
RT: 6.741 min Scan# 3231
Delta R.T. -0.012 min
Lab File: 929068-6.D
Acq: 04 Jun 2024 12:10 pm

Tgt Ion:252 Resp: 230571

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.4	26.0

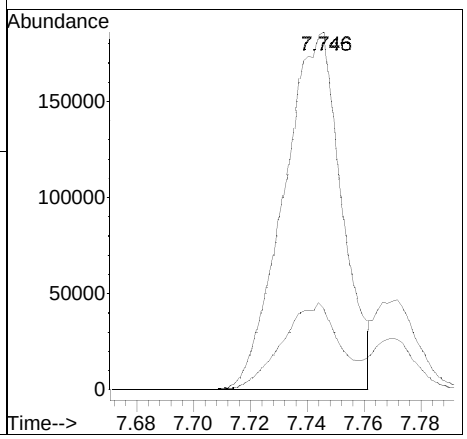


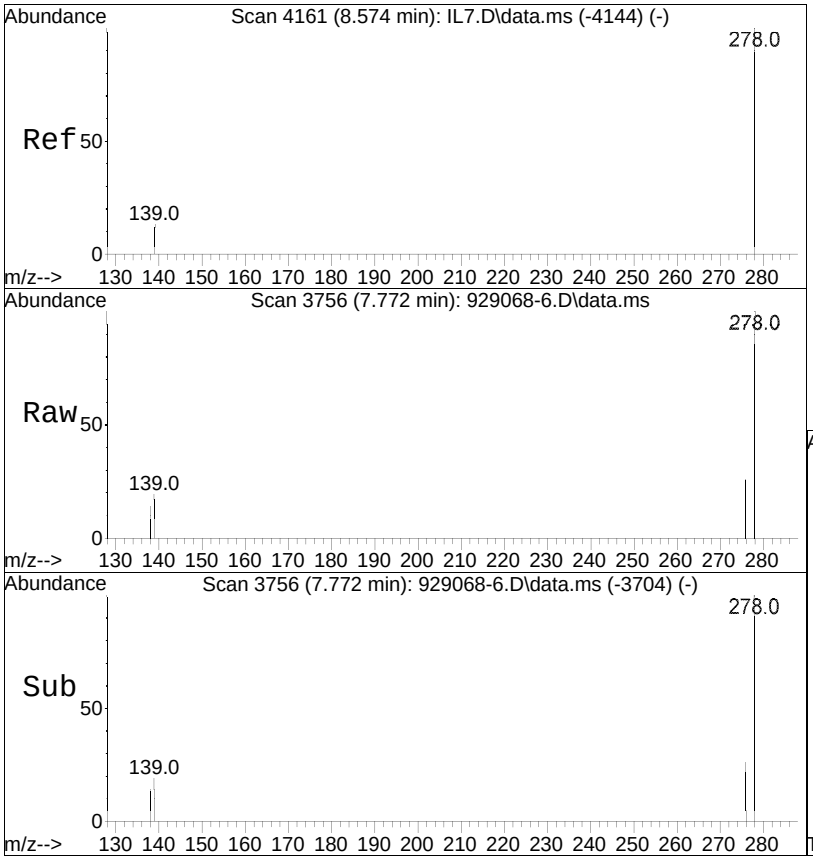


#40
Indeno[1,2,3-cd]pyrene
Concen: 4953.67 ng/ml
RT: 7.746 min Scan# 3741
Delta R.T. -0.002 min
Lab File: 929068-6.D
Acq: 04 Jun 2024 12:10 pm

Tgt Ion:276 Resp: 261341

Ion	Ratio	Lower	Upper
276	100		
138	23.8	14.8	22.2#

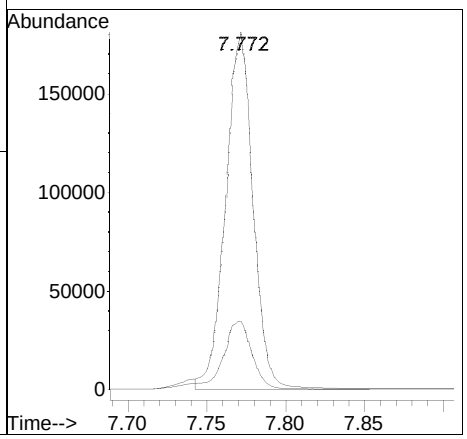


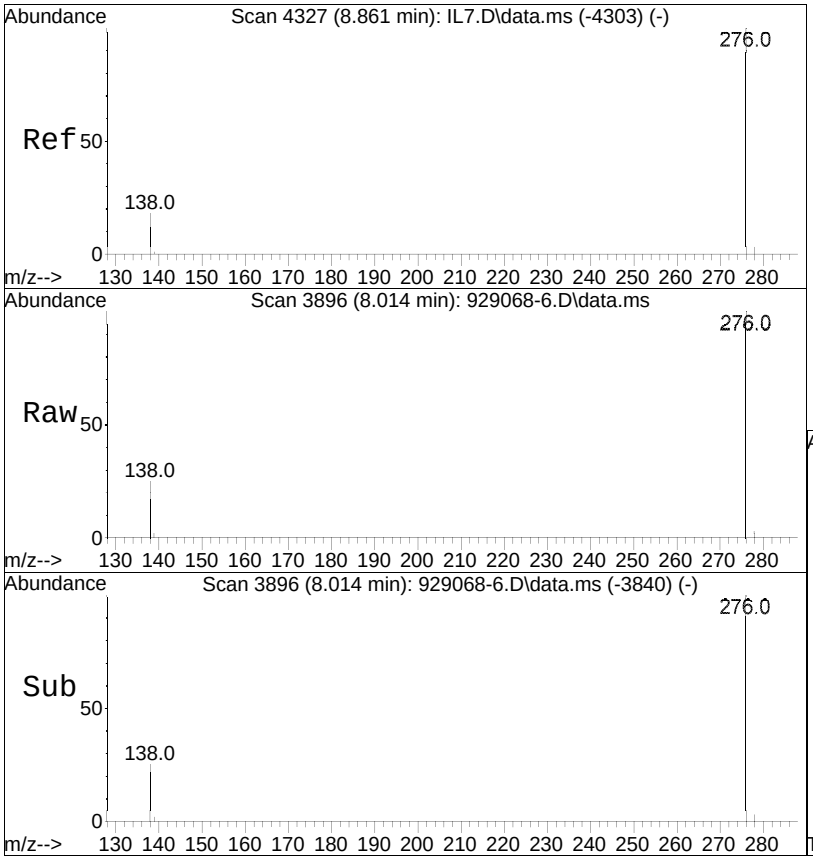


#41
Dibenzo[a,h]anthracene
Concen: 4426.47 ng/ml M6
RT: 7.772 min Scan# 3756
Delta R.T. -0.010 min
Lab File: 929068-6.D
Acq: 04 Jun 2024 12:10 pm

Tgt Ion:278 Resp: 217273

Ion	Ratio	Lower	Upper
278	100		
139	20.9	12.2	18.4#

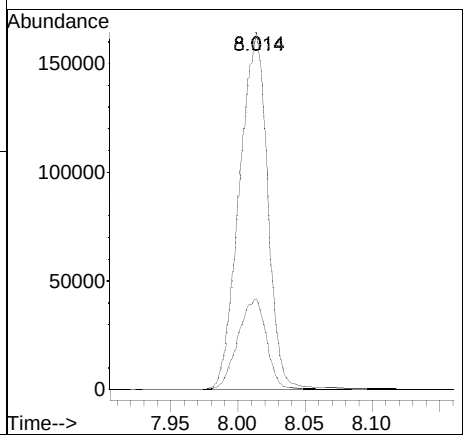




#42
Benzo[g,h,i]perylene
Concen: 4426.31 ng/ml
RT: 8.014 min Scan# 3896
Delta R.T. -0.003 min
Lab File: 929068-6.D
Acq: 04 Jun 2024 12:10 pm

Tgt Ion:276 Resp: 237534

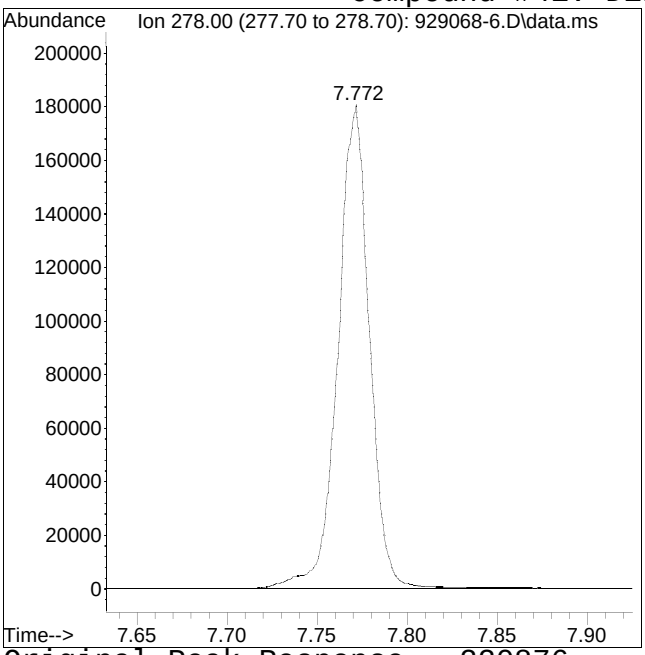
Ion	Ratio	Lower	Upper
276	100		
138	25.9	16.8	25.2#



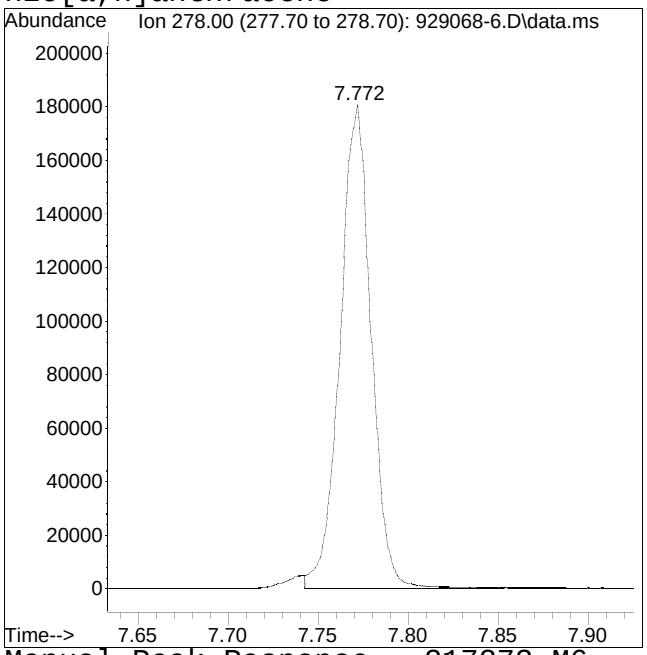
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 929068-6.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 12:10 pm Instrument : SV119
Sample : WG1929068-6,32,,ah Quant Date : 6/4/2024 12:25 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 220876



Manual Peak Response = 217273 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 929068-5.D
Acq On : 04 Jun 2024 11:37 am
Operator : sv119:rp
Sample : WG1929068-5,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 06 09:29:52 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240604LVI\ccv0604.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.909	152	49349	4000.000	ng/ml	0.00
Standard Area 1 = 56492			Recovery = 87.36%			
8) Naphthalene-d8	2.551	136	168381	4000.000	ng/ml	0.00
Standard Area 1 = 186100			Recovery = 90.48%			
17) Acenaphthene-d10	3.500	164	84986	4000.000	ng/ml	0.00
Standard Area 1 = 98337			Recovery = 86.42%			
22) Phenanthrene-d10	4.320	188	178478	4000.000	ng/ml	0.00
Standard Area 1 = 215749			Recovery = 82.72%			
31) Chrysene-d12	5.839	240	136645	4000.000	ng/ml	-0.01
Standard Area 1 = 188074			Recovery = 72.65%			
36) Perylene-d12	6.787	264	159734	4000.000	ng/ml	-0.01
Standard Area 1 = 198758			Recovery = 80.37%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.344	112	53998	4000.512	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 80.01%			
3) Phenol-d6	1.744	99	57746	3569.042	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 71.38%			
7) Nitrobenzene-d5	2.183	82	31762	2587.965	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 103.52%			
13) 2-Fluorobiphenyl	3.138	172	74340	1976.813	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 79.07%			
21) 2,4,6-Tribromophenol	3.937	330	30951	6605.820	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 132.12%#			
30) 4-Terphenyl-d14	5.231	244	73938	1689.889	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 67.60%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.784	93	56327	4093.576	ng/ml#	76
5) n-nitrosodi-n-propylamine	2.109	70	42901	5213.056	ng/ml	98
6) Hexachloroethane	2.156	117	26479	4337.404	ng/ml	90
9) Naphthalene	2.562	128	174436	4338.556	ng/ml	100
10) Hexachlorobutadiene	2.637	225	39982	4617.558	ng/ml	100
11) 2-Methylnaphthalene	2.933	142	124808	4198.351	ng/ml	96
12) 1-Methylnaphthalene	2.985	142	111636	4072.257	ng/ml	97
14) 2-Chloronaphthalene	3.197	162	131357	4148.165	ng/ml#	84
15) 2,6-Dinitrotoluene	3.397	165	36050	5041.631	ng/ml	92
16) Acenaphthylene	3.420	152	195413	4152.607	ng/ml	100
18) Acenaphthene	3.518	153	125470	4775.632	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 929068-5.D
Acq On : 04 Jun 2024 11:37 am
Operator : sv119:rp
Sample : WG1929068-5,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 06 09:29:52 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240604LVI\ccv0604.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.618	165	49476	6316.157	ng/ml#	74
20) Fluorene	3.802	166	147260	4689.164	ng/ml	97
23) 4,6-Dinitro-o-cresol	3.843	198	31114	5818.360	ng/ml#	75
24) Hexachlorobenzene	4.113	284	62481	5415.151	ng/ml	99
25) Pentachlorophenol	4.225	266	44426	6027.245	ng/ml	99
26) Phenanthrene	4.332	178	220456	4862.659	ng/ml	100
27) Anthracene	4.362	178	224020	4982.809	ng/ml	99
28) Fluoranthene	4.998	202	264205	4421.717	ng/ml	100
29) Pyrene	5.124	202	269055	4382.993	ng/ml	100
32) Benzo[a]anthracene	5.833	228	255393	5621.718	ng/ml	100
33) 3,3'-Dichlorobenzidine	5.833	252	111323	5392.471	ng/ml#	98
34) Chrysene	5.854	228	230536	5111.888	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	5.888	149	202408	6575.091	ng/ml	98
37) Benzo[b]fluoranthene	6.503	252	251248	4502.328	ng/ml	96
38) Benzo[k]fluoranthene	6.521	252	233324	4403.229	ng/ml	99
39) Benzo[a]pyrene	6.740	252	220606	4491.195	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	7.739	276	253121	4741.452	ng/ml#	88
41) Dibenzo[a,h]anthracene	7.766	278	211266M6	4253.488	ng/ml	
42) Benzo[g,h,i]perylene	8.008	276	231413	4261.547	ng/ml#	89

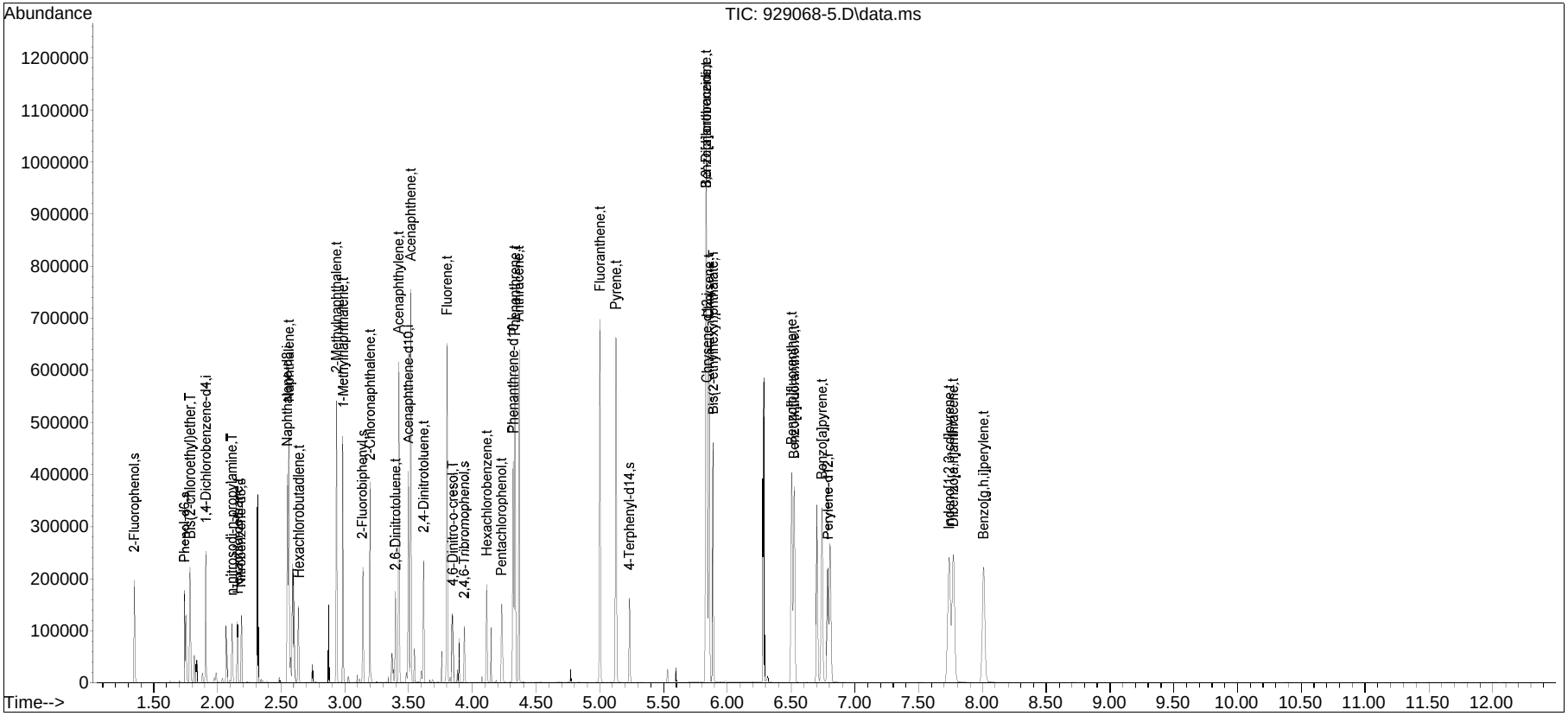
(#) = qualifier out of range (m) = manual integration (+) = signals summed

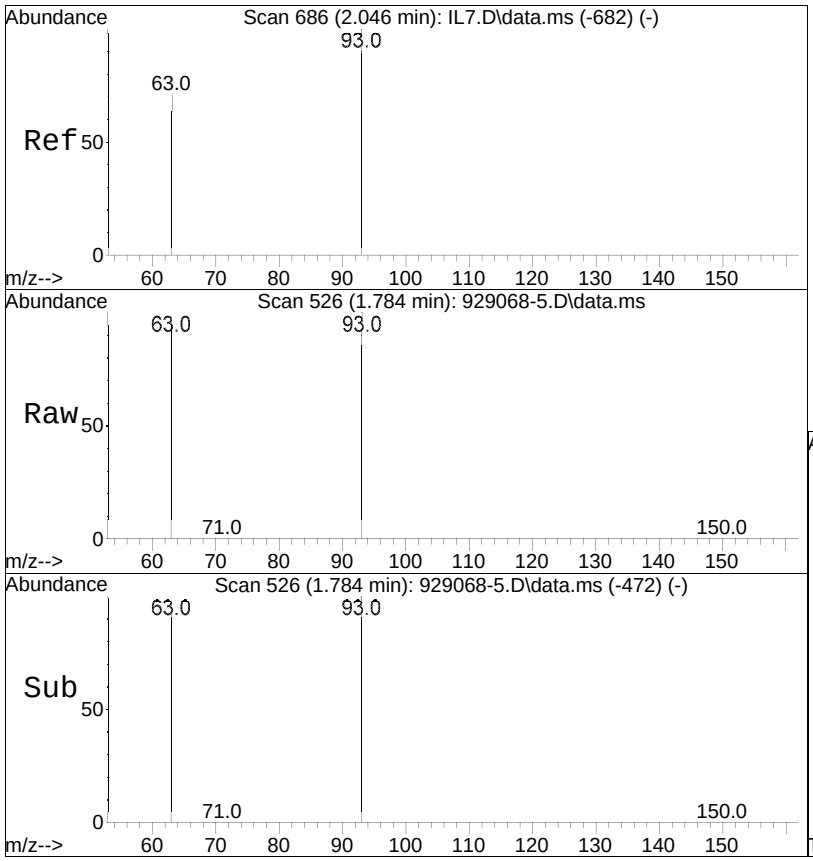
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 929068-5.D
Acq On : 04 Jun 2024 11:37 am
Operator : sv119:rp
Sample : WG1929068-5,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 06 09:29:52 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0604.D•

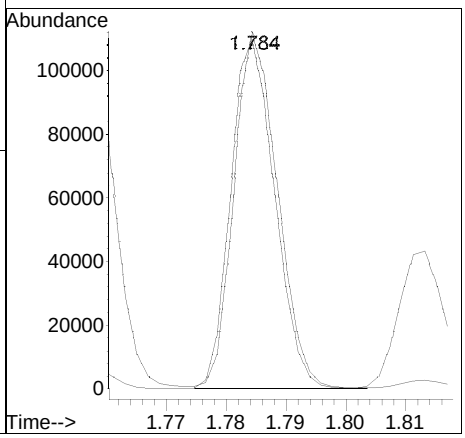


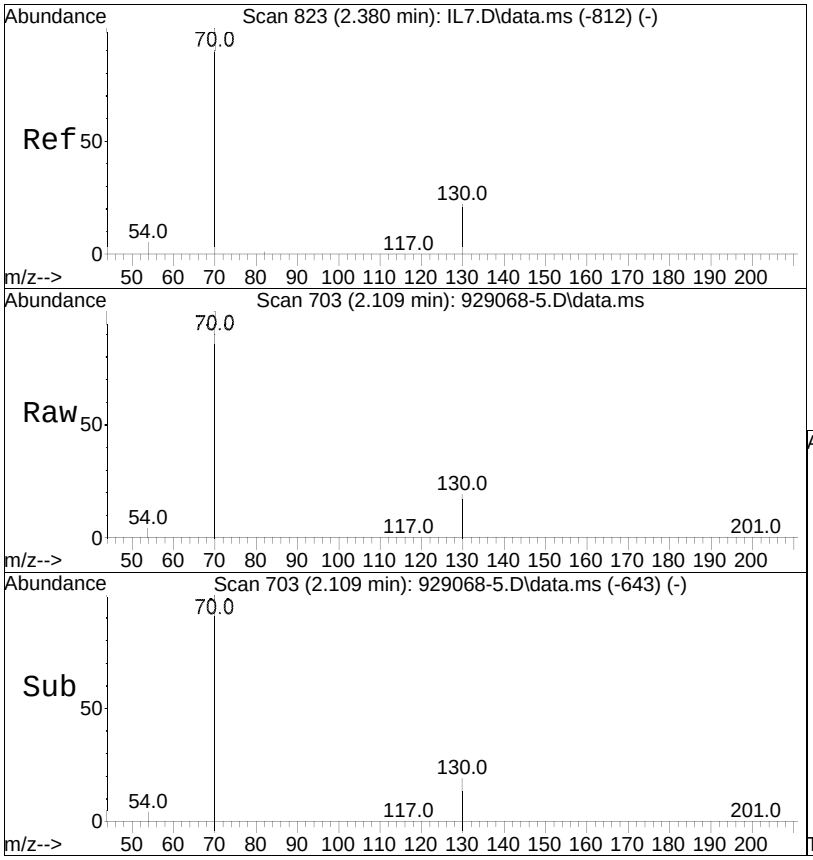


#4
Bis(2-chloroethyl)ether
Concen: 4093.58 ng/ml
RT: 1.784 min Scan# 526
Delta R.T. 0.004 min
Lab File: 929068-5.D
Acq: 04 Jun 2024 11:37 am

Tgt Ion: 93 Resp: 56327

Ion	Ratio	Lower	Upper
93	100		
63	99.0	62.6	94.0#

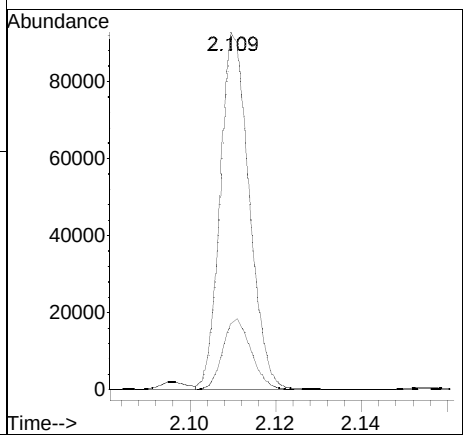


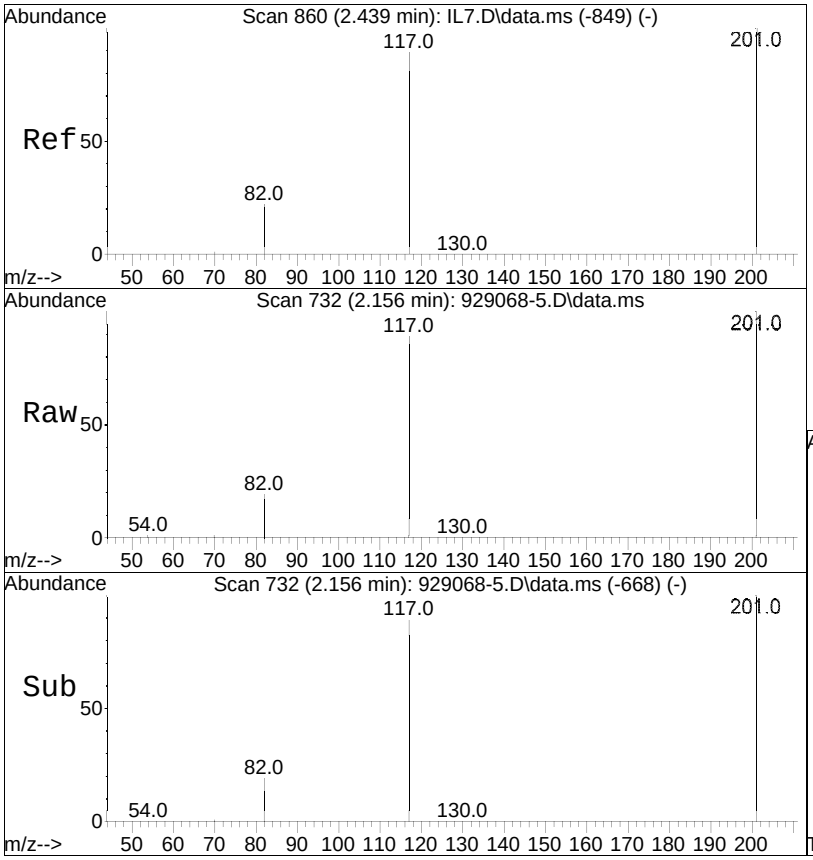


#5
n-nitrosodi-n-propylamine
Concen: 5213.06 ng/ml
RT: 2.109 min Scan# 703
Delta R.T. 0.002 min
Lab File: 929068-5.D
Acq: 04 Jun 2024 11:37 am

Tgt Ion: 70 Resp: 42901

Ion	Ratio	Lower	Upper
70	100		
130	19.6	15.0	22.6

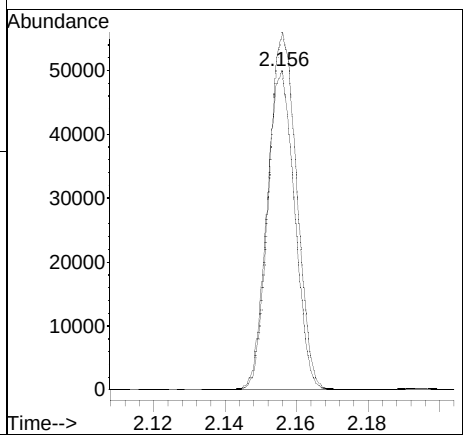


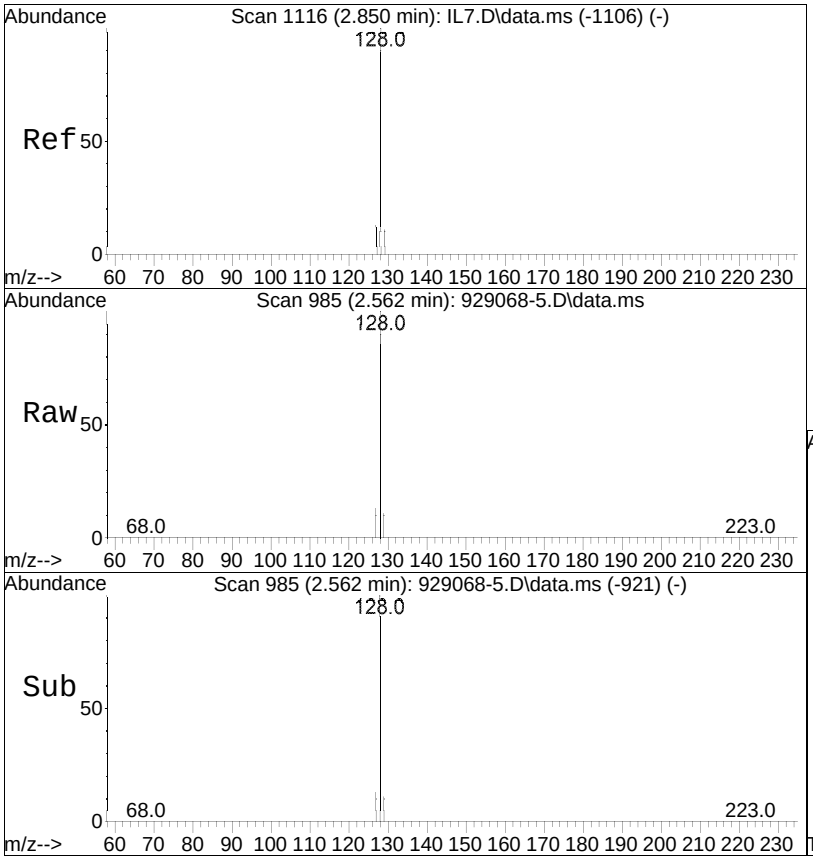


#6
Hexachloroethane
Concen: 4337.40 ng/ml
RT: 2.156 min Scan# 732
Delta R.T. 0.003 min
Lab File: 929068-5.D
Acq: 04 Jun 2024 11:37 am

Tgt Ion:117 Resp: 26479

Ion	Ratio	Lower	Upper
117	100		
201	112.5	81.5	122.3

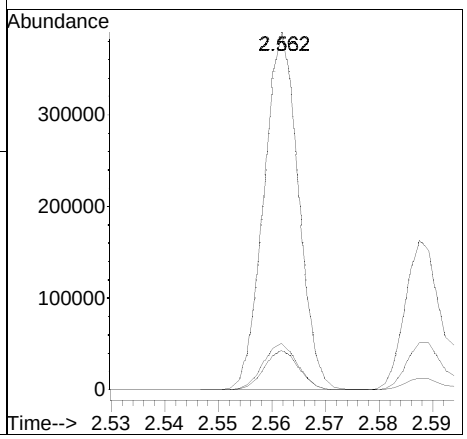


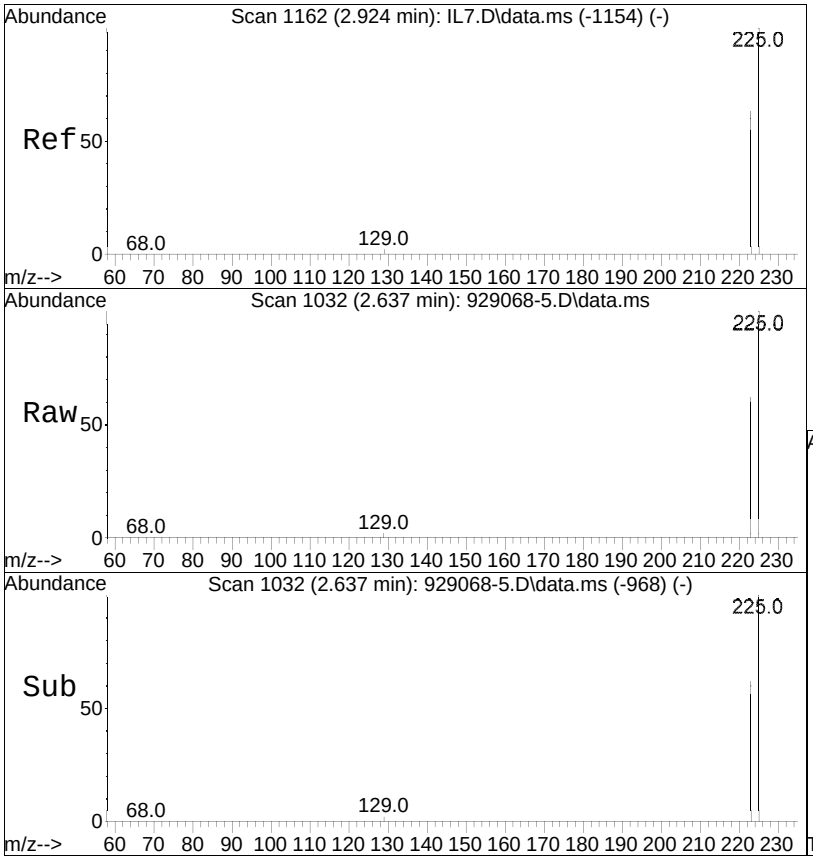


#9
Naphthalene
Concen: 4338.56 ng/ml
RT: 2.562 min Scan# 985
Delta R.T. 0.003 min
Lab File: 929068-5.D
Acq: 04 Jun 2024 11:37 am

Tgt Ion:128 Resp: 174436

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	13.1	10.6	15.8

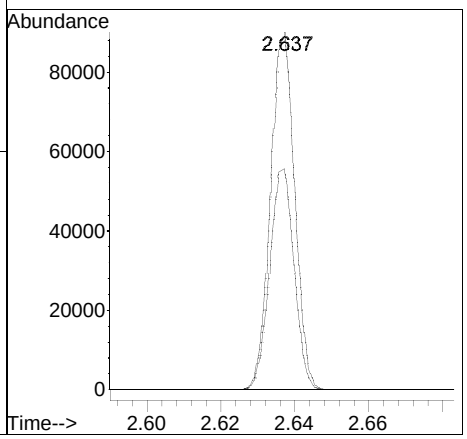


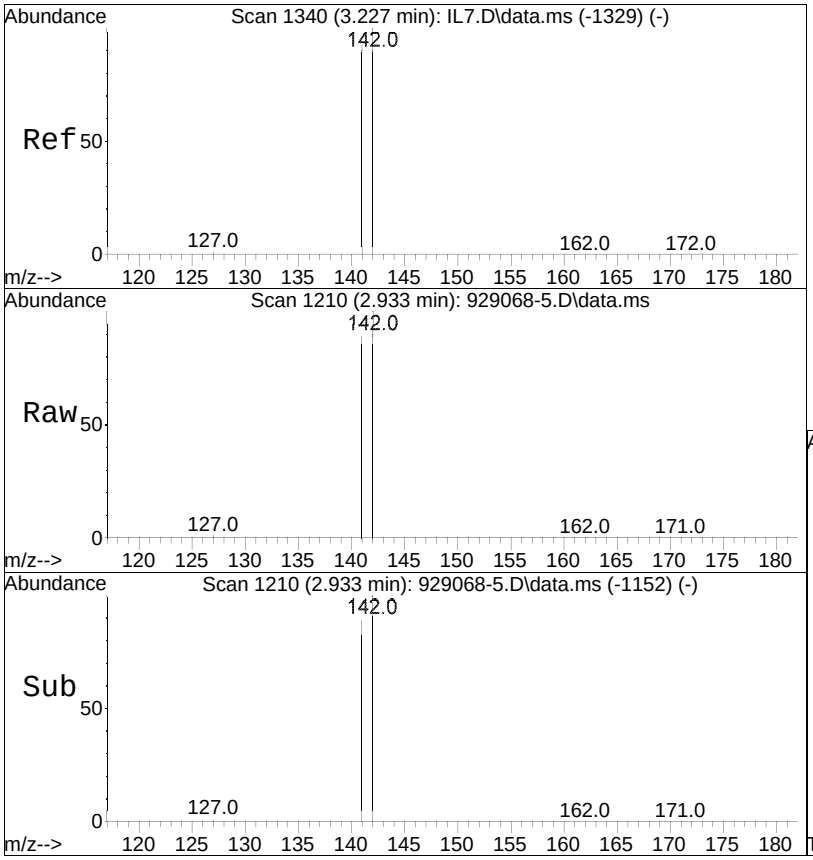


#10
Hexachlorobutadiene
Concen: 4617.56 ng/ml
RT: 2.637 min Scan# 1032
Delta R.T. 0.003 min
Lab File: 929068-5.D
Acq: 04 Jun 2024 11:37 am

Tgt Ion:225 Resp: 39982

Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.1	75.1

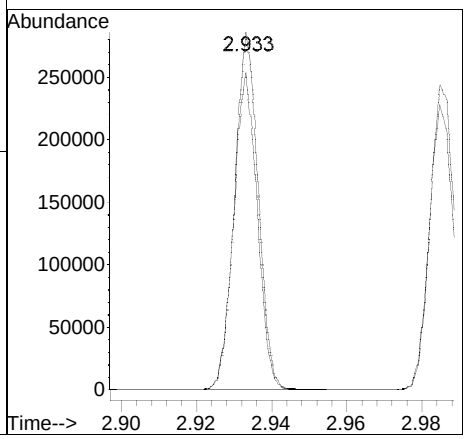


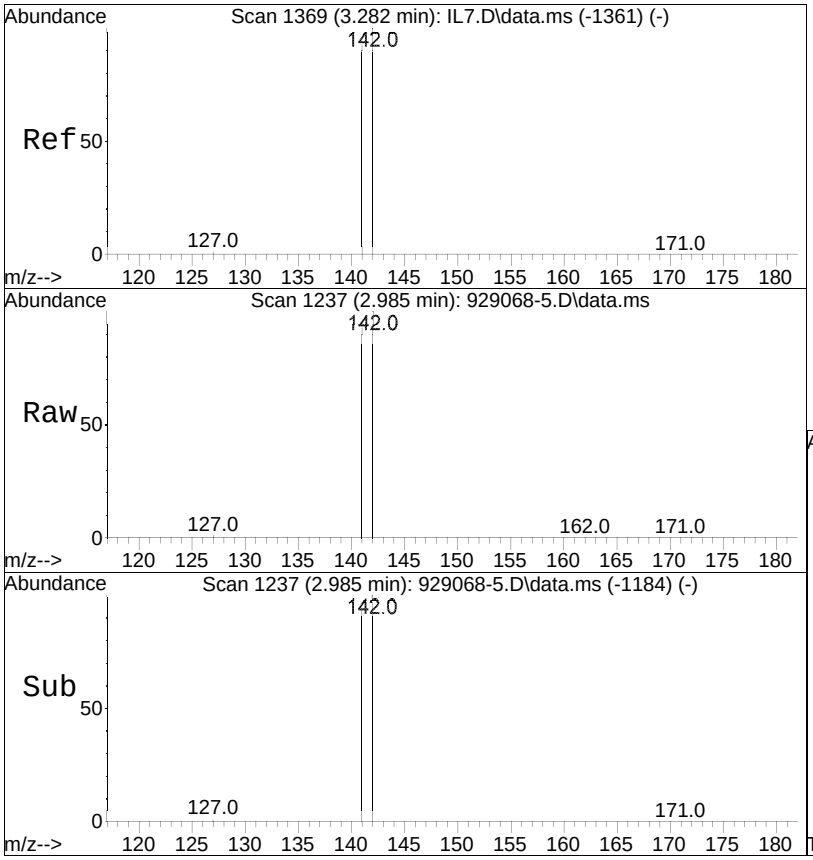


#11
2-Methylnaphthalene
Concen: 4198.35 ng/ml
RT: 2.933 min Scan# 1210
Delta R.T. 0.004 min
Lab File: 929068-5.D
Acq: 04 Jun 2024 11:37 am

Tgt Ion:142 Resp: 124808

Ion	Ratio	Lower	Upper
142	100		
141	89.2	74.1	111.1

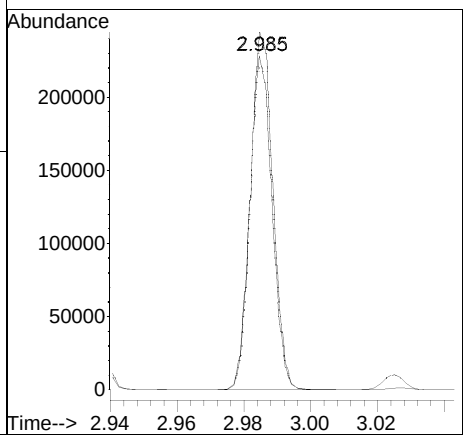


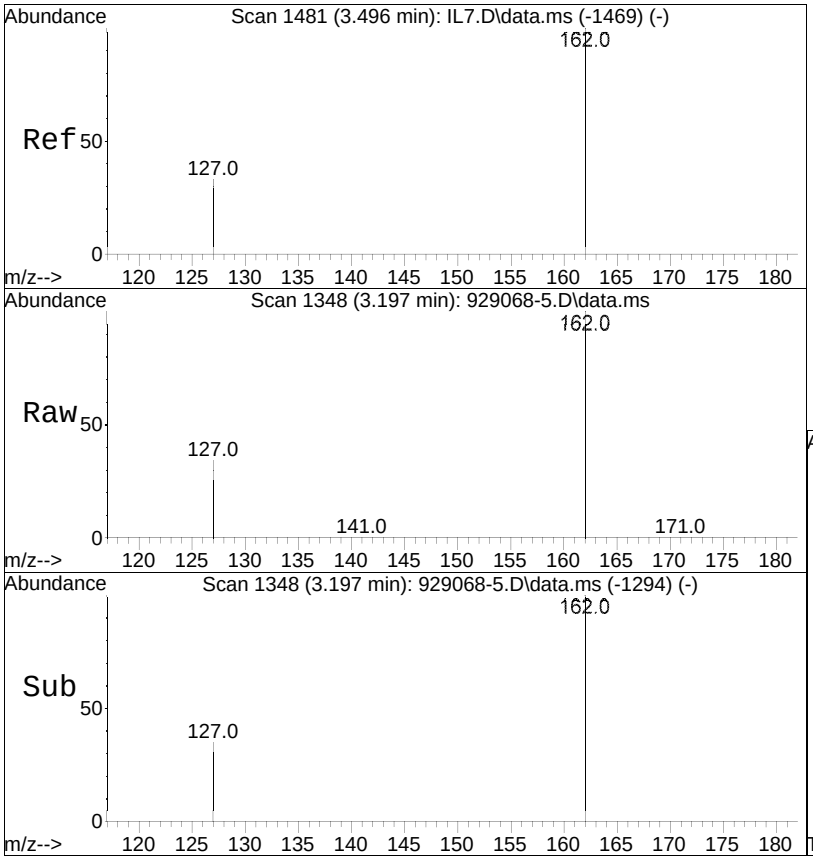


#12
1-Methylnaphthalene
Concen: 4072.26 ng/ml
RT: 2.985 min Scan# 1237
Delta R.T. 0.002 min
Lab File: 929068-5.D
Acq: 04 Jun 2024 11:37 am

Tgt Ion:142 Resp: 111636

Ion	Ratio	Lower	Upper
142	100		
141	93.2	76.6	114.8

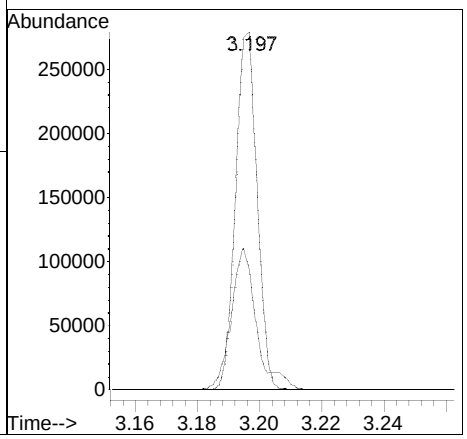


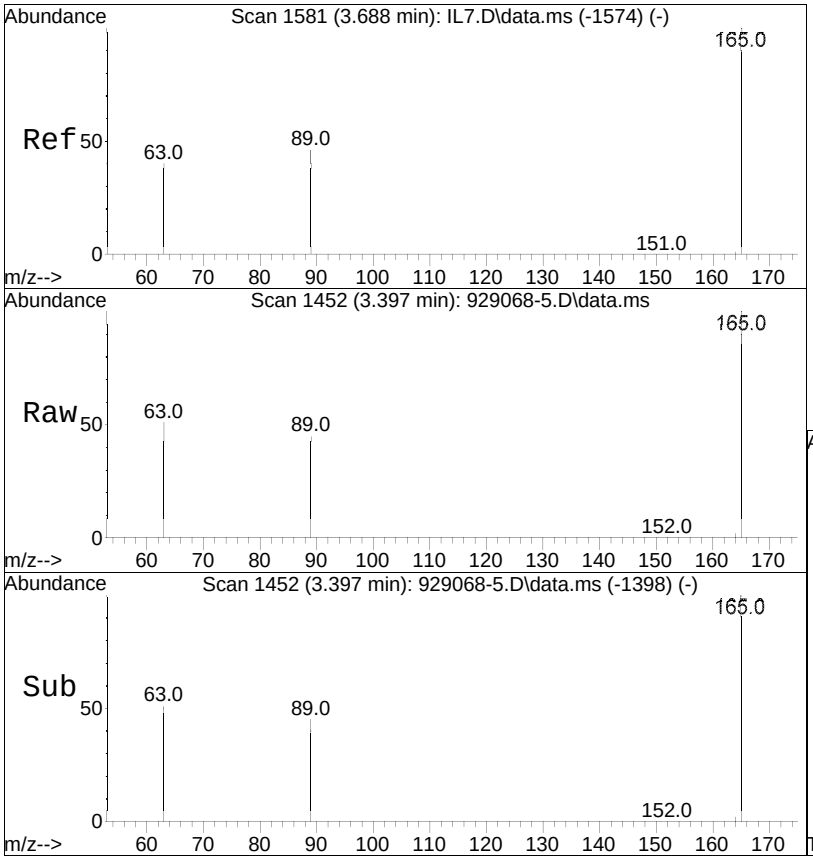


#14
2-Chloronaphthalene
Concen: 4148.17 ng/ml
RT: 3.197 min Scan# 1348
Delta R.T. 0.004 min
Lab File: 929068-5.D
Acq: 04 Jun 2024 11:37 am

Tgt Ion:162 Resp: 131357

Ion	Ratio	Lower	Upper
162	100		
127	46.8	29.7	44.5#

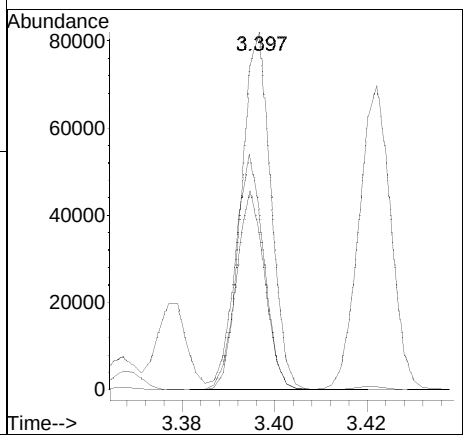


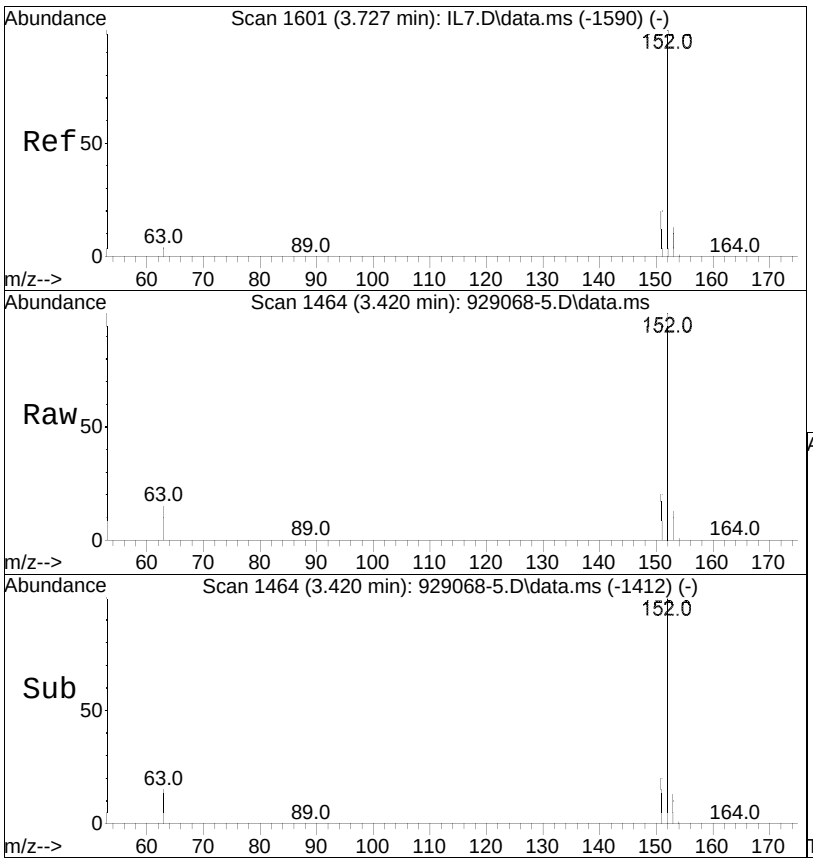


#15
2,6-Dinitrotoluene
Concen: 5041.63 ng/ml
RT: 3.397 min Scan# 1452
Delta R.T. 0.004 min
Lab File: 929068-5.D
Acq: 04 Jun 2024 11:37 am

Tgt Ion:165 Resp: 36050

Ion	Ratio	Lower	Upper
165	100		
89	54.1	52.8	79.2
63	64.4	50.9	76.3

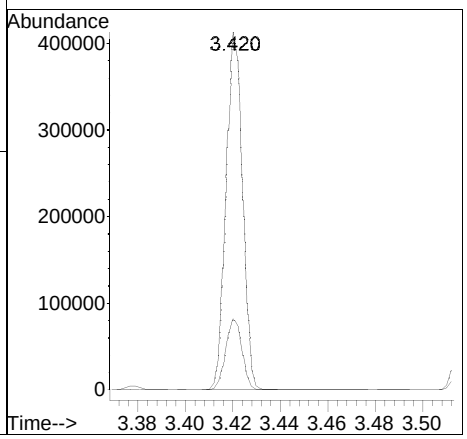


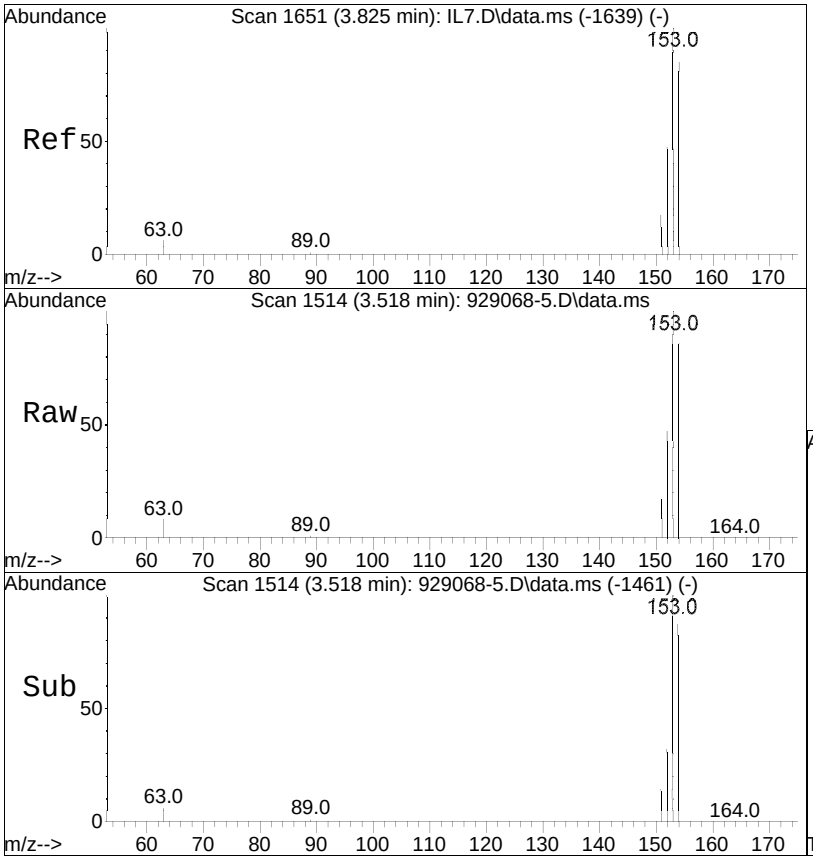


#16
Acenaphthylene
Concen: 4152.61 ng/ml
RT: 3.420 min Scan# 1464
Delta R.T. 0.002 min
Lab File: 929068-5.D
Acq: 04 Jun 2024 11:37 am

Tgt Ion:152 Resp: 195413

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.0	24.0

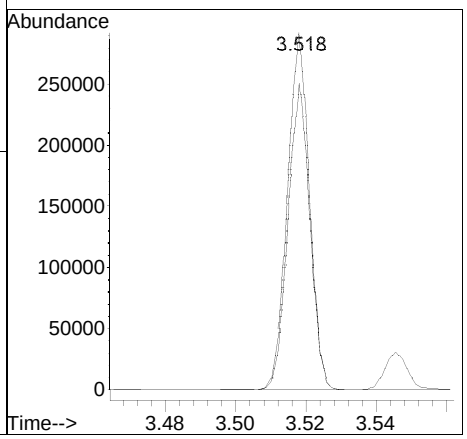


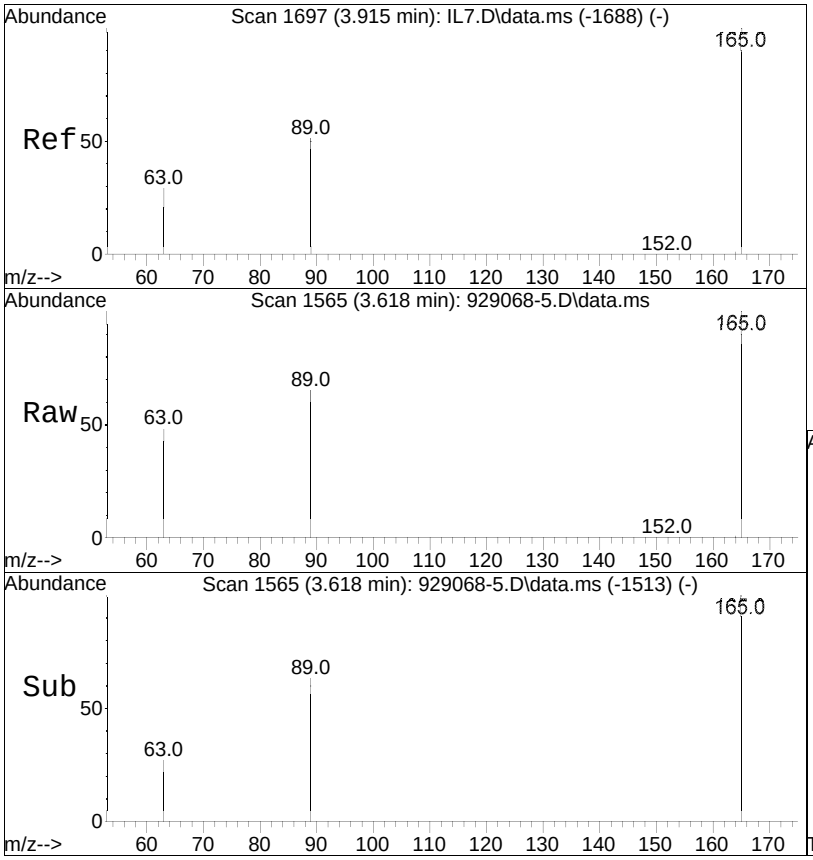


#18
Acenaphthene
Concen: 4775.63 ng/ml
RT: 3.518 min Scan# 1514
Delta R.T. 0.004 min
Lab File: 929068-5.D
Acq: 04 Jun 2024 11:37 am

Tgt Ion:153 Resp: 125470

Ion	Ratio	Lower	Upper
153	100		
154	85.3	66.9	100.3

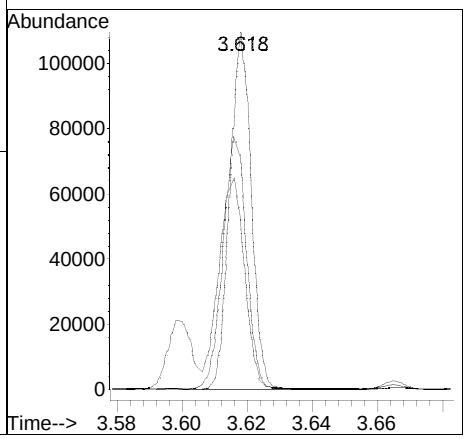


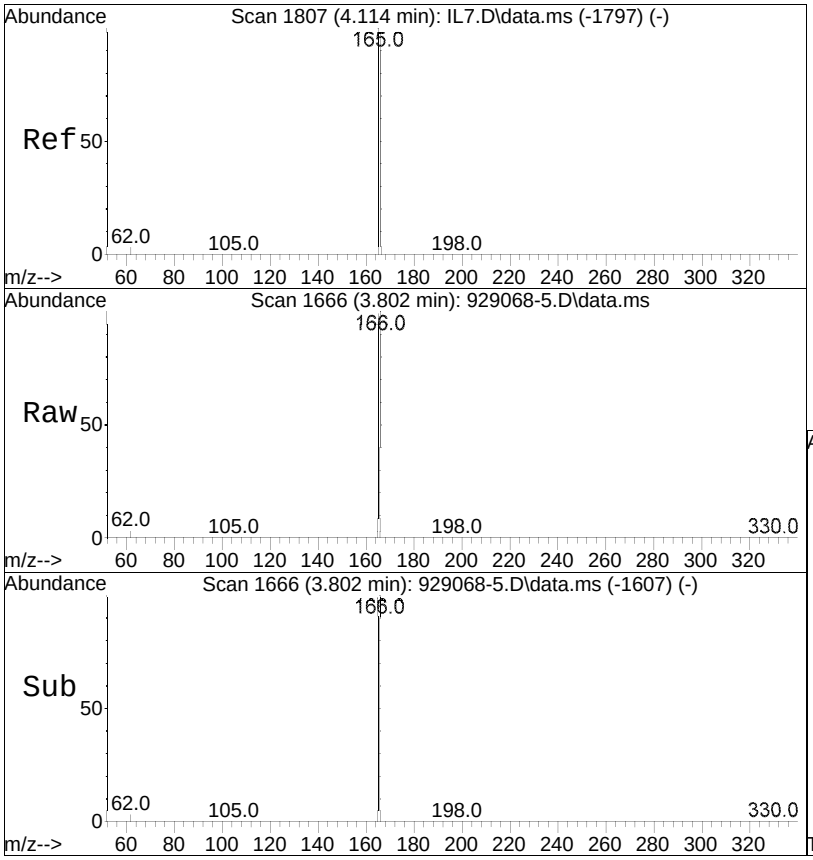


#19
2,4-Dinitrotoluene
Concen: 6316.16 ng/ml
RT: 3.618 min Scan# 1565
Delta R.T. 0.002 min
Lab File: 929068-5.D
Acq: 04 Jun 2024 11:37 am

Tgt Ion:165 Resp: 49476

Ion	Ratio	Lower	Upper
165	100		
89	77.9	80.1	120.1#
63	71.5	38.9	58.3#

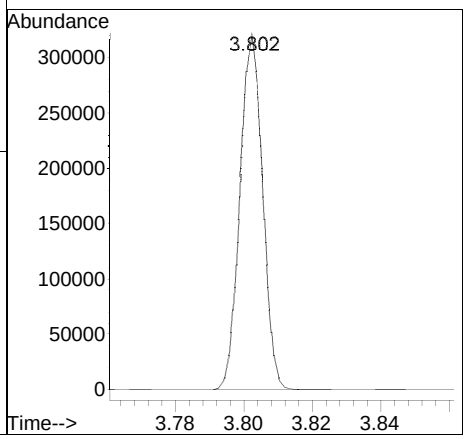


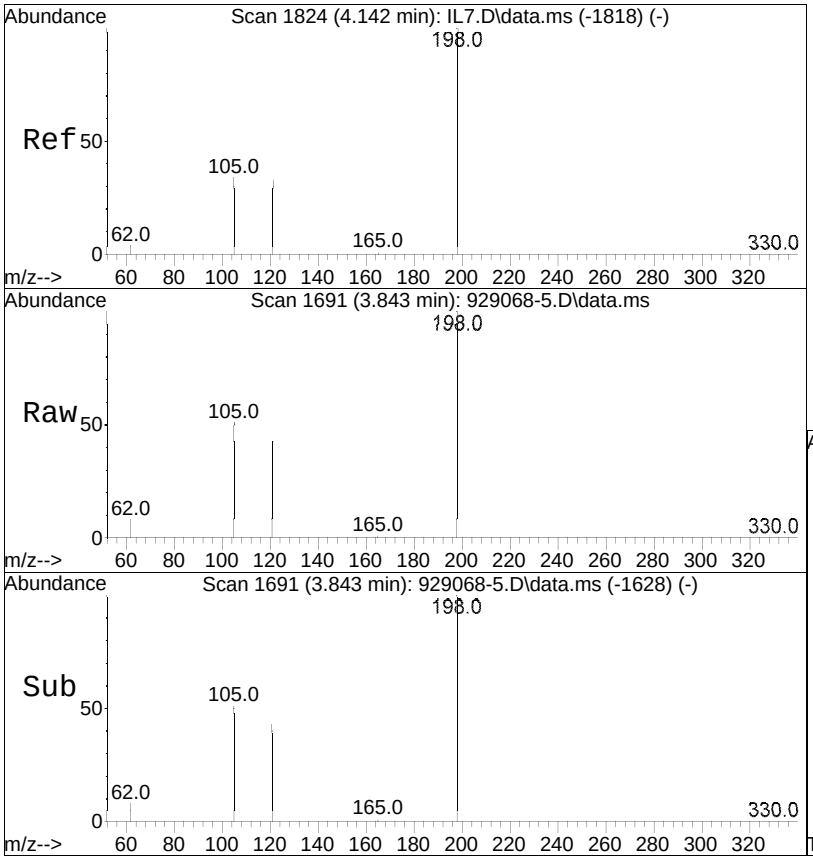


#20
Fluorene
Concen: 4689.16 ng/ml
RT: 3.802 min Scan# 1666
Delta R.T. 0.002 min
Lab File: 929068-5.D
Acq: 04 Jun 2024 11:37 am

Tgt Ion:166 Resp: 147260

Ion	Ratio	Lower	Upper
166	100		
165	100.6	82.9	124.3

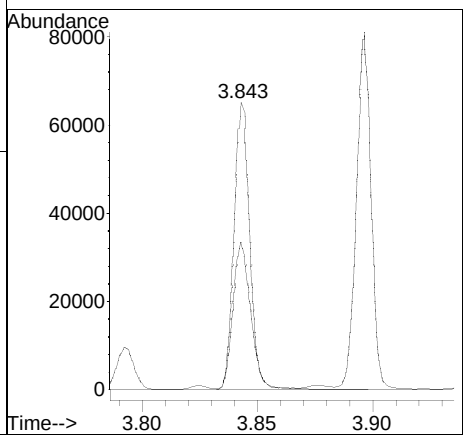


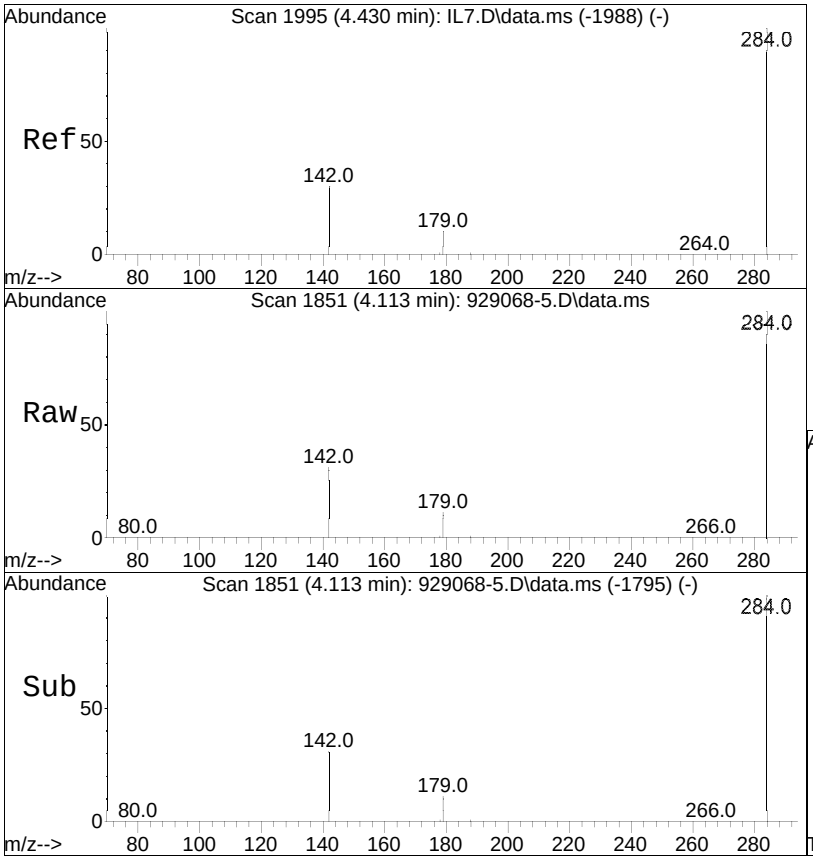


#23
4,6-Dinitro-o-cresol
Concen: 5818.36 ng/ml
RT: 3.843 min Scan# 1691
Delta R.T. 0.002 min
Lab File: 929068-5.D
Acq: 04 Jun 2024 11:37 am

Tgt Ion:198 Resp: 31114

Ion	Ratio	Lower	Upper
198	100		
105	56.0	32.2	48.4#

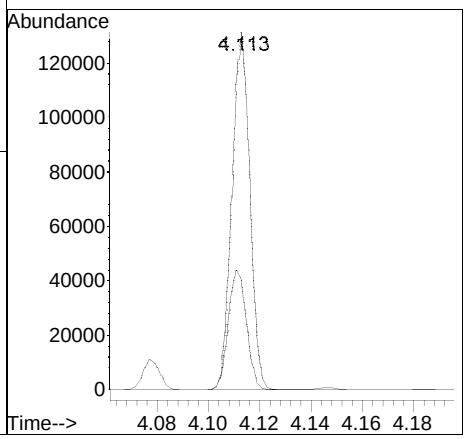


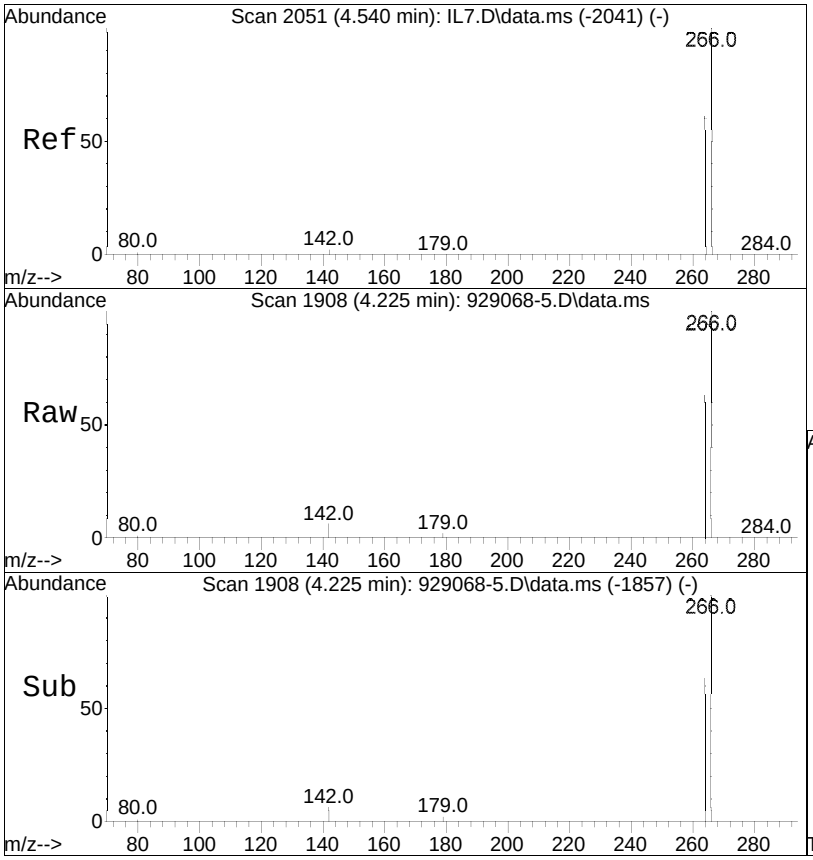


#24
Hexachlorobenzene
Concen: 5415.15 ng/ml
RT: 4.113 min Scan# 1851
Delta R.T. 0.002 min
Lab File: 929068-5.D
Acq: 04 Jun 2024 11:37 am

Tgt Ion:284 Resp: 62481

Ion	Ratio	Lower	Upper
284	100		
142	34.3	26.9	40.3

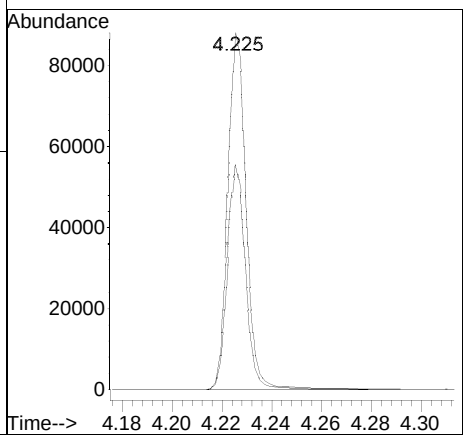


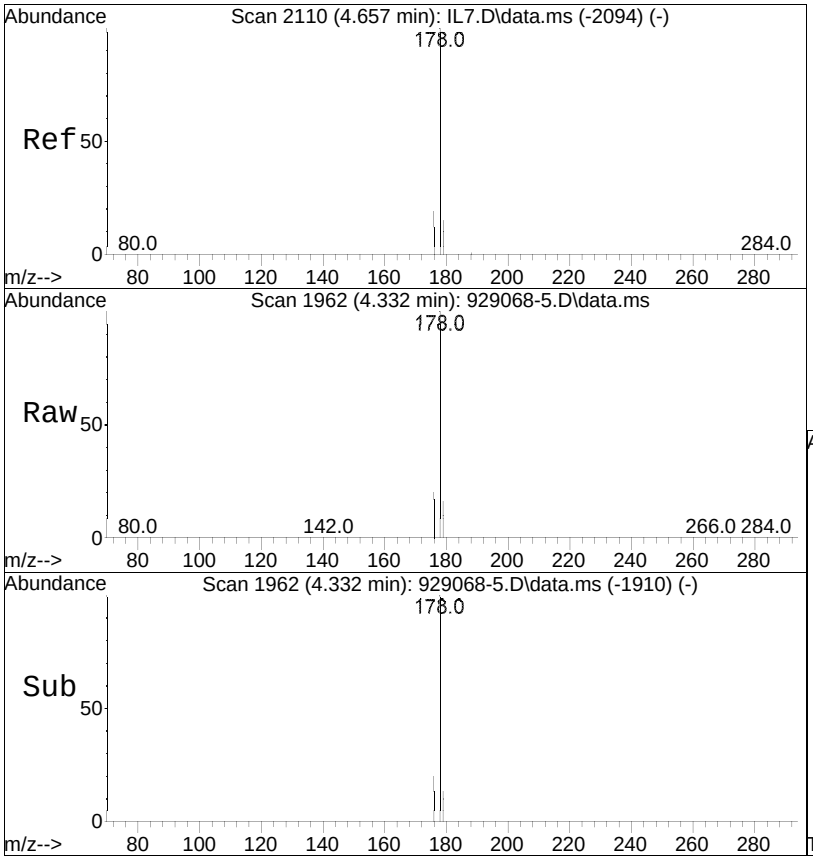


#25
Pentachlorophenol
Concen: 6027.25 ng/ml
RT: 4.225 min Scan# 1908
Delta R.T. 0.000 min
Lab File: 929068-5.D
Acq: 04 Jun 2024 11:37 am

Tgt Ion:266 Resp: 44426

Ion	Ratio	Lower	Upper
266	100		
264	62.7	50.7	76.1

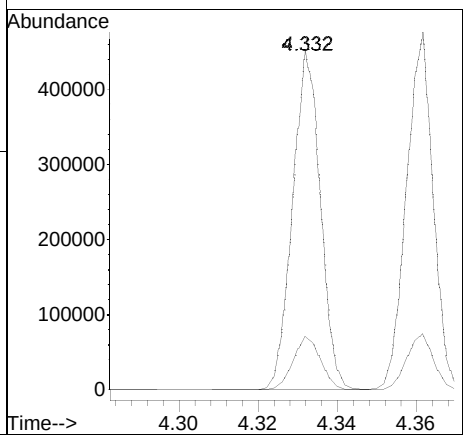


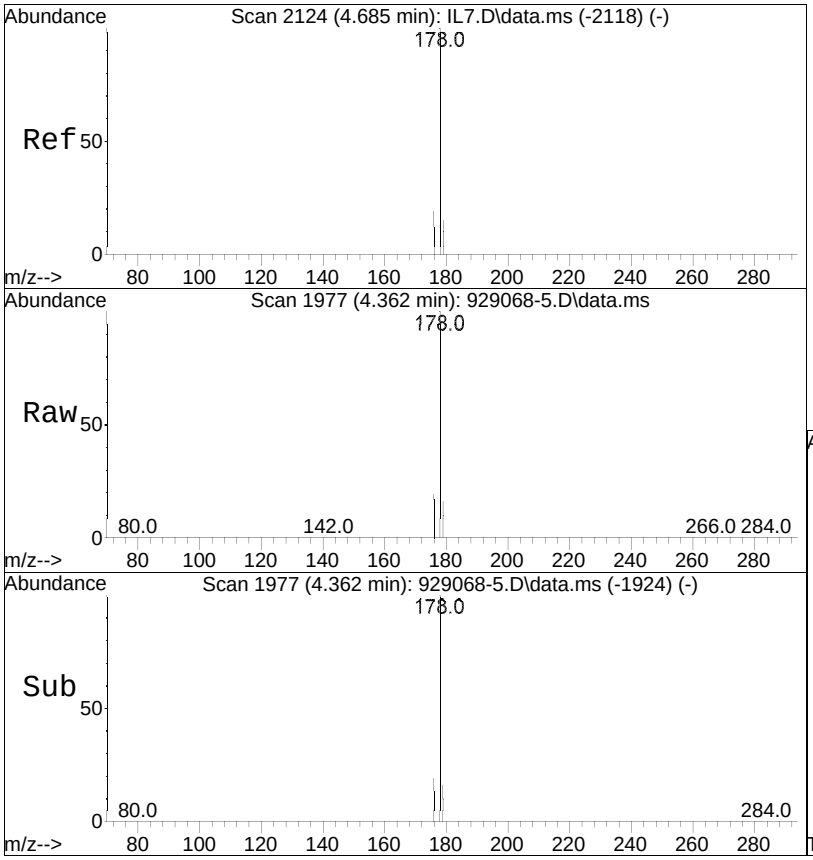


#26
Phenanthrene
Concen: 4862.66 ng/ml
RT: 4.332 min Scan# 1962
Delta R.T. 0.002 min
Lab File: 929068-5.D
Acq: 04 Jun 2024 11:37 am

Tgt Ion:178 Resp: 220456

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.3	18.5

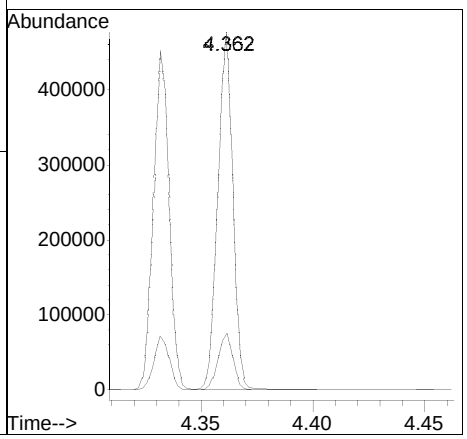


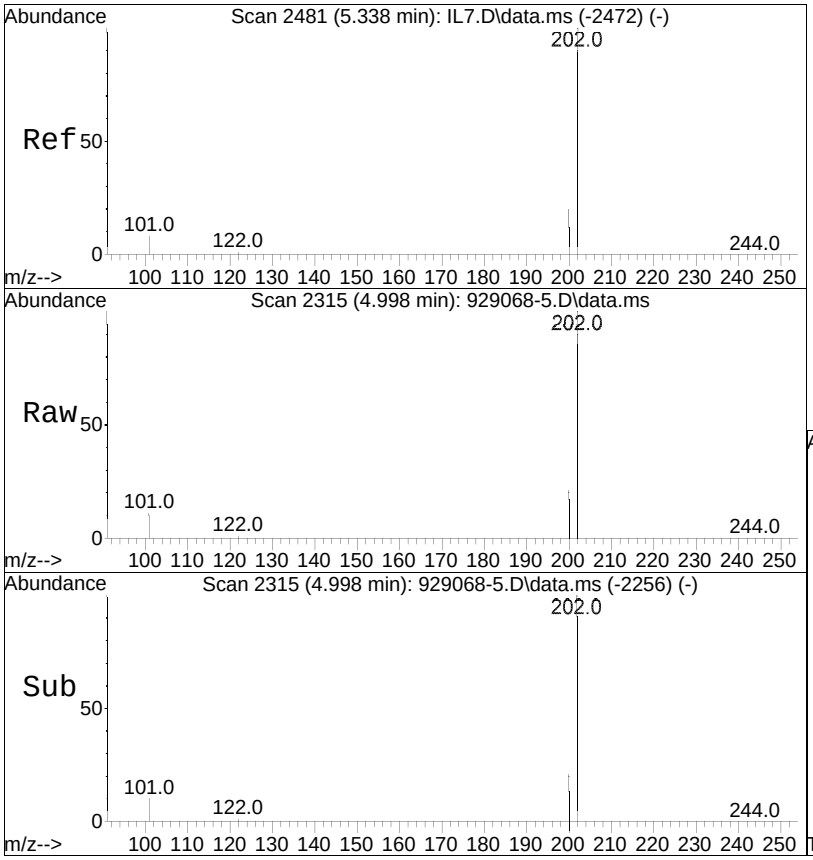


#27
Anthracene
Concen: 4982.81 ng/ml
RT: 4.362 min Scan# 1977
Delta R.T. 0.004 min
Lab File: 929068-5.D
Acq: 04 Jun 2024 11:37 am

Tgt Ion:178 Resp: 224020

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.2	18.4

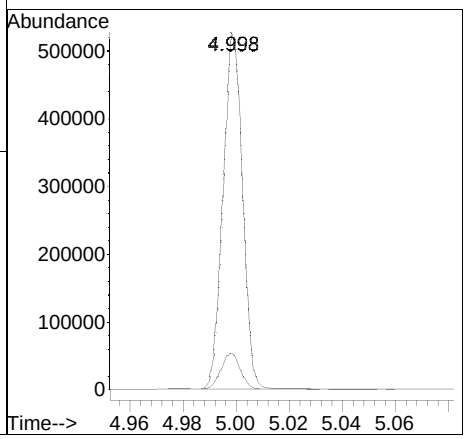


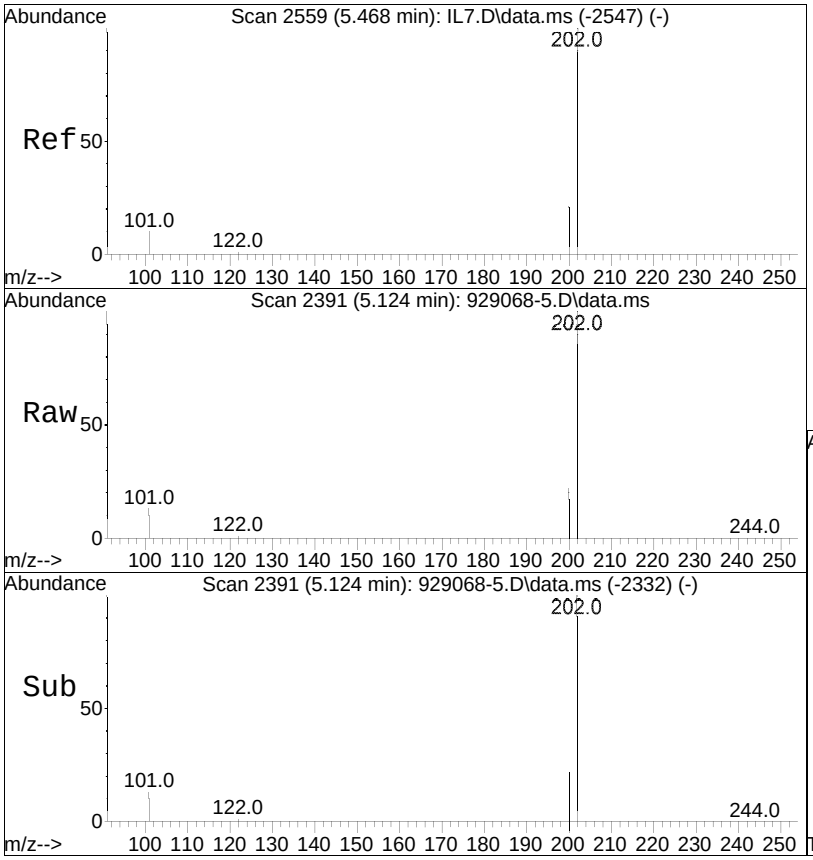


#28
Fluoranthene
Concen: 4421.72 ng/ml
RT: 4.998 min Scan# 2315
Delta R.T. -0.002 min
Lab File: 929068-5.D
Acq: 04 Jun 2024 11:37 am

Tgt Ion:202 Resp: 264205

Ion	Ratio	Lower	Upper
202	100		
101	10.4	8.3	12.5

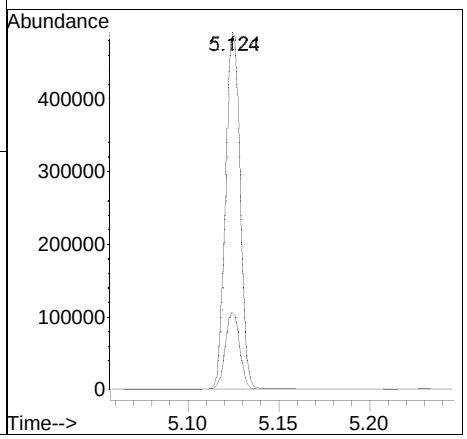


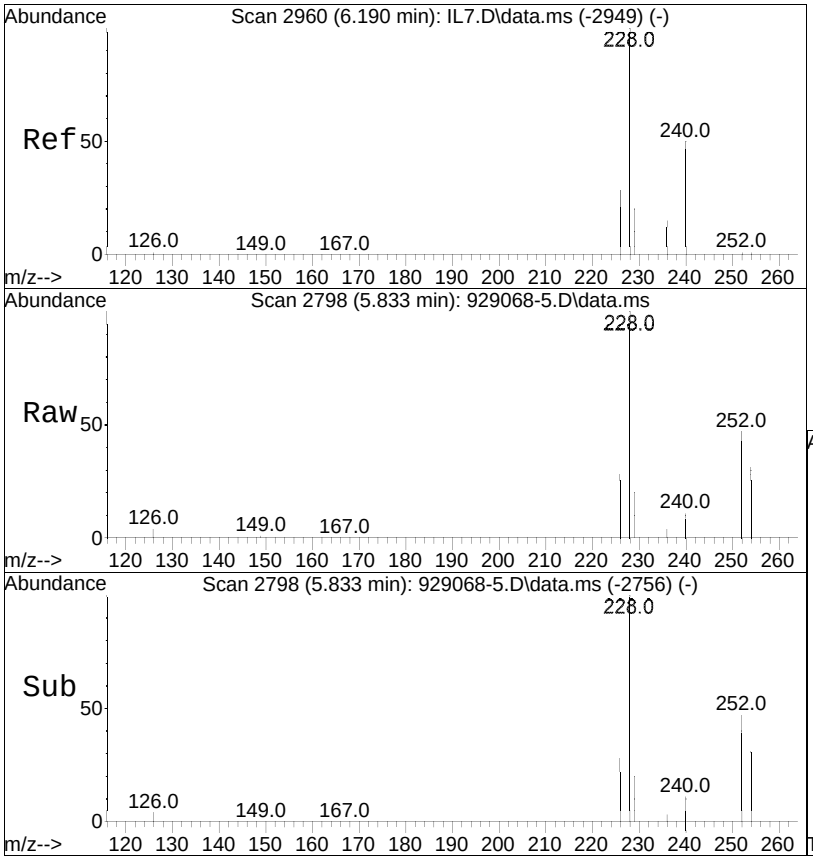


#29
Pyrene
Concen: 4382.99 ng/ml
RT: 5.124 min Scan# 2391
Delta R.T. -0.002 min
Lab File: 929068-5.D
Acq: 04 Jun 2024 11:37 am

Tgt Ion:202 Resp: 269055

Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.3	25.9

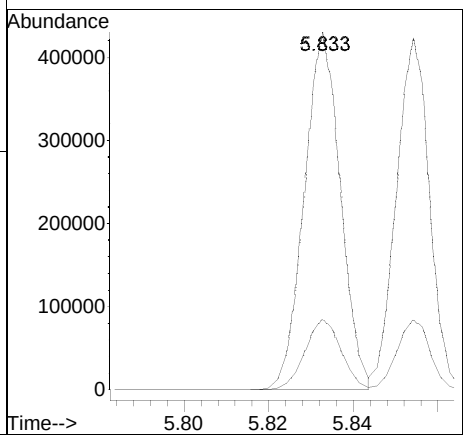


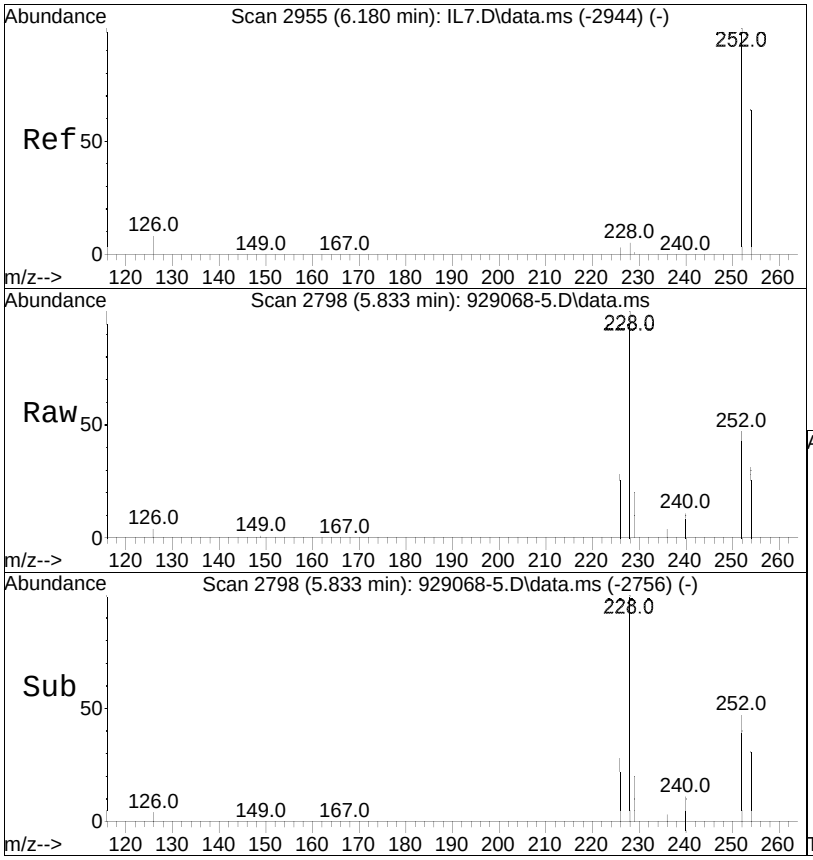


#32
Benzo[a]anthracene
Concen: 5621.72 ng/ml
RT: 5.833 min Scan# 2798
Delta R.T. -0.011 min
Lab File: 929068-5.D
Acq: 04 Jun 2024 11:37 am

Tgt Ion:228 Resp: 255393

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.6	23.4

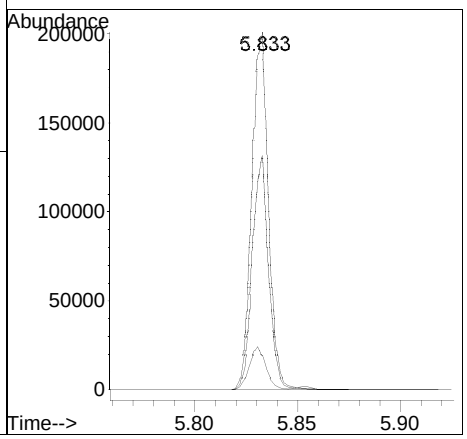


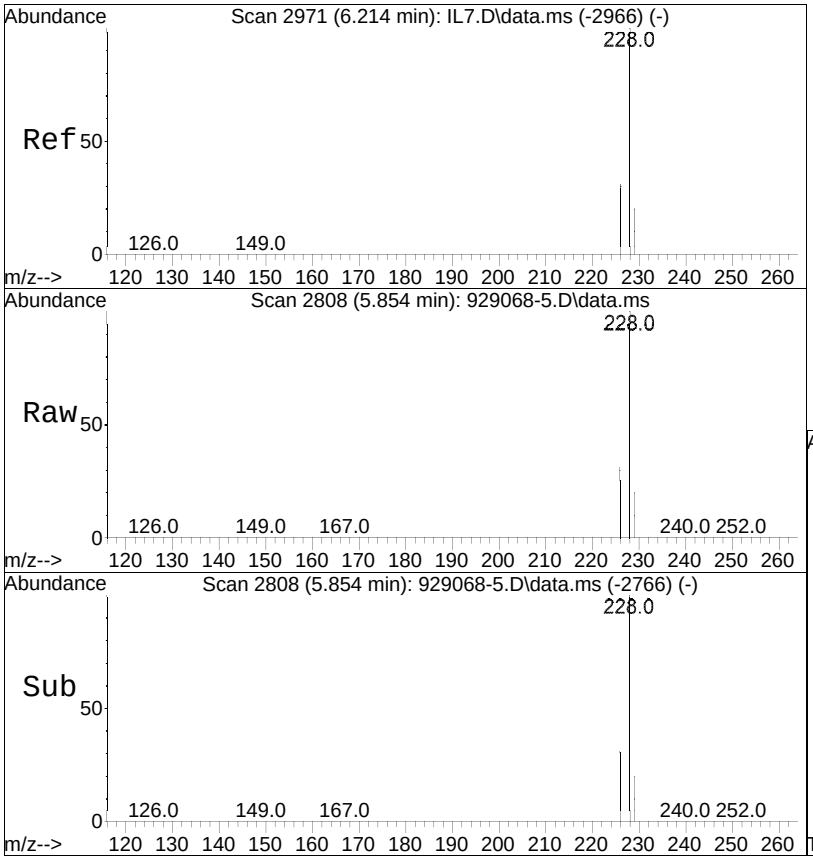


#33
3,3'-Dichlorobenzidine
Concen: 5392.47 ng/ml
RT: 5.833 min Scan# 2798
Delta R.T. -0.011 min
Lab File: 929068-5.D
Acq: 04 Jun 2024 11:37 am

Tgt Ion:252 Resp: 111323

Ion	Ratio	Lower	Upper
252	100		
126	12.2	7.7	11.5#
254	64.4	52.0	78.0

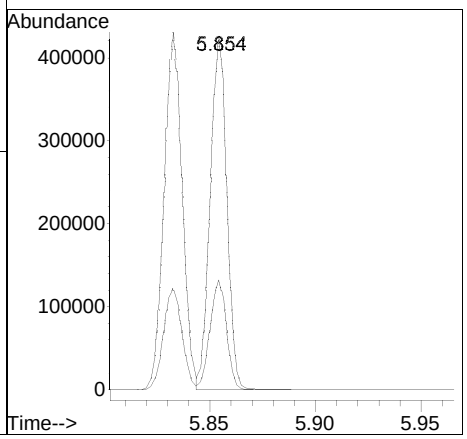


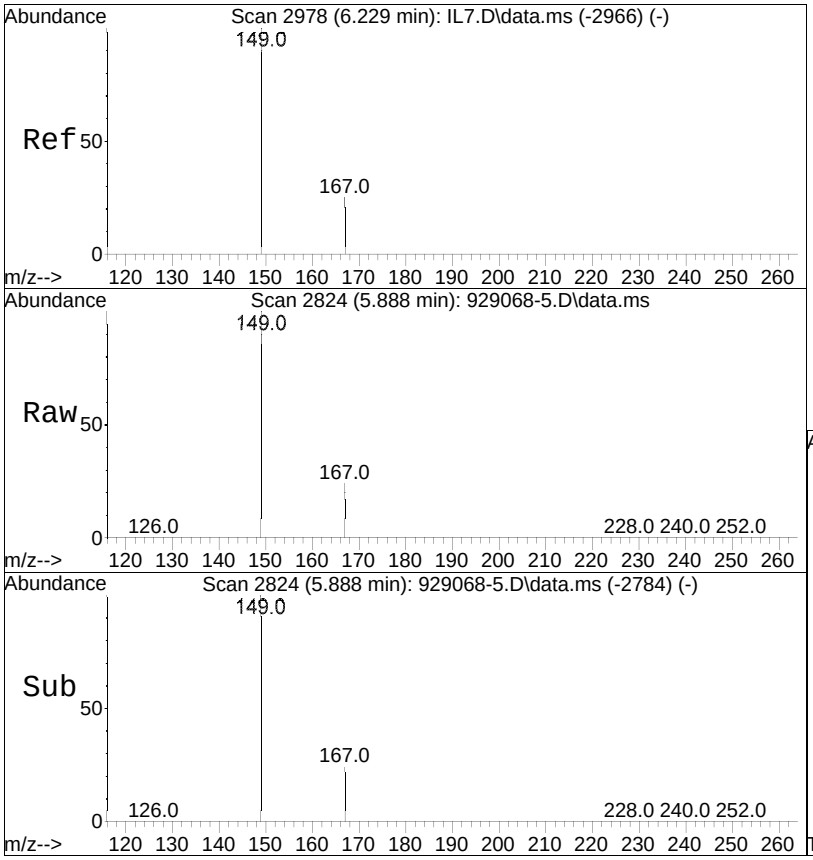


#34
Chrysene
Concen: 5111.89 ng/ml
RT: 5.854 min Scan# 2808
Delta R.T. -0.011 min
Lab File: 929068-5.D
Acq: 04 Jun 2024 11:37 am

Tgt Ion:228 Resp: 230536

Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.5	36.7

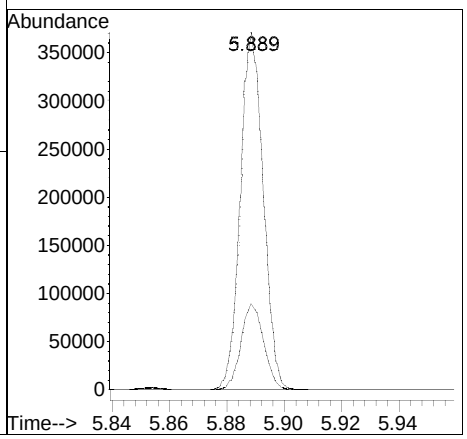


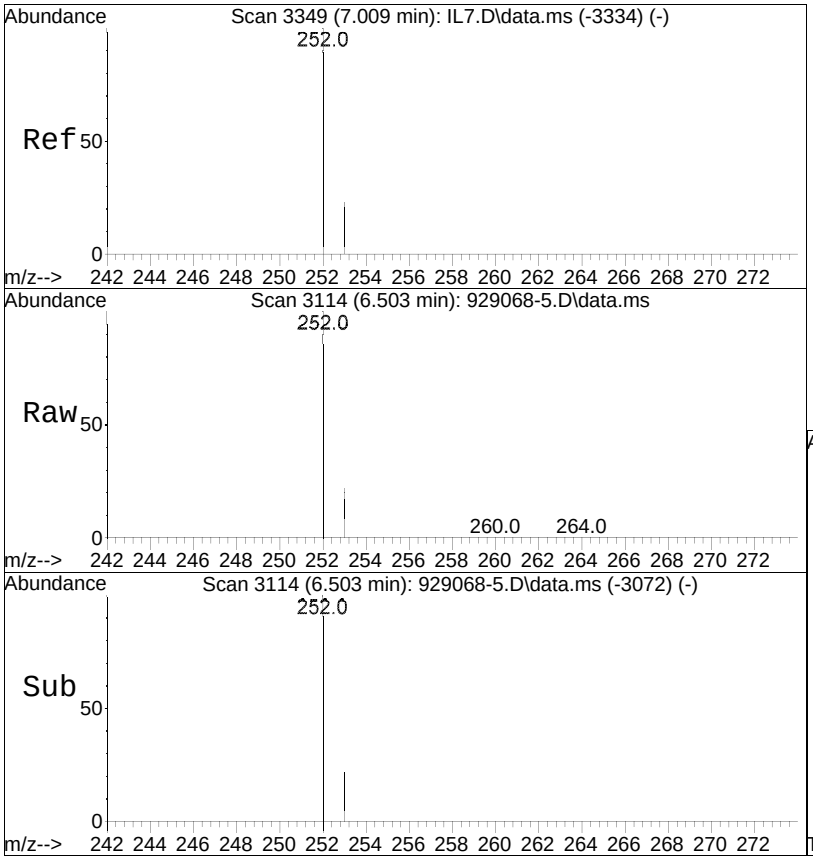


#35
Bis(2-ethylhexyl)phthalate
Concen: 6575.09 ng/ml
RT: 5.888 min Scan# 2824
Delta R.T. -0.015 min
Lab File: 929068-5.D
Acq: 04 Jun 2024 11:37 am

Tgt Ion:149 Resp: 202408

Ion	Ratio	Lower	Upper
149	100		
167	24.0	18.5	27.7

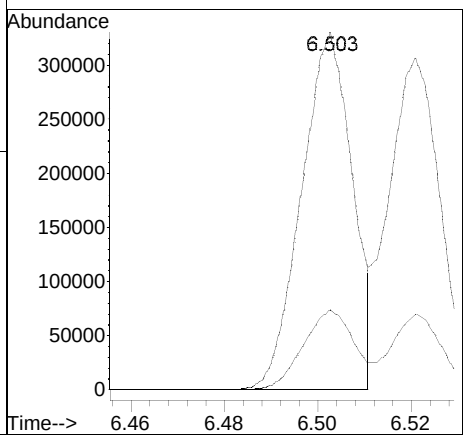


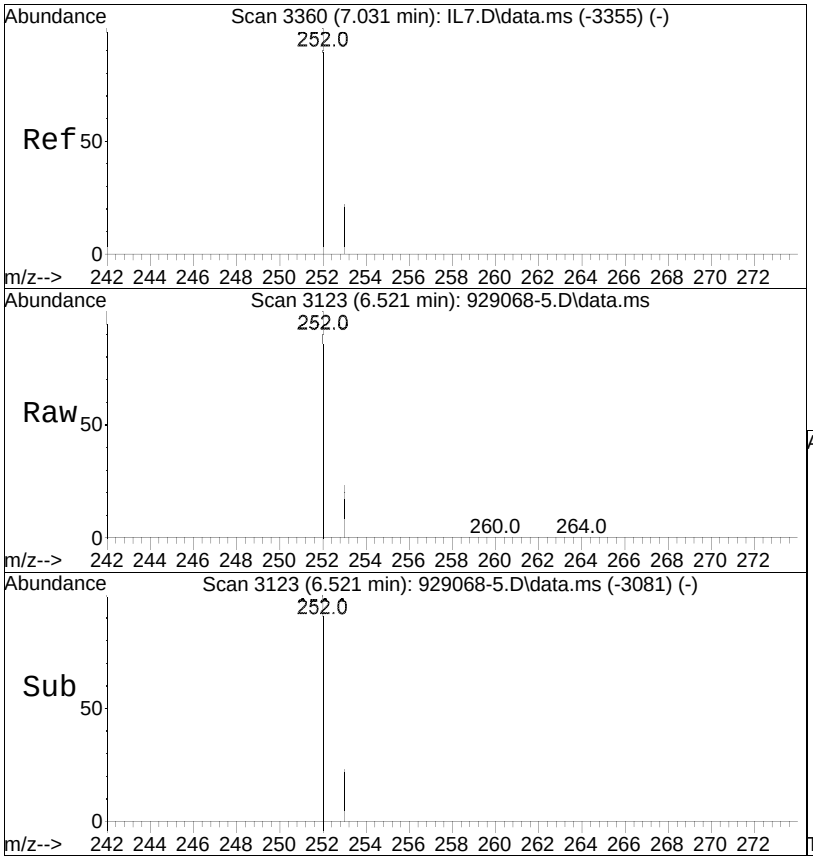


#37
Benzo[b]fluoranthene
Concen: 4502.33 ng/ml
RT: 6.503 min Scan# 3114
Delta R.T. -0.014 min
Lab File: 929068-5.D
Acq: 04 Jun 2024 11:37 am

Tgt Ion:252 Resp: 251248

Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.3	25.9

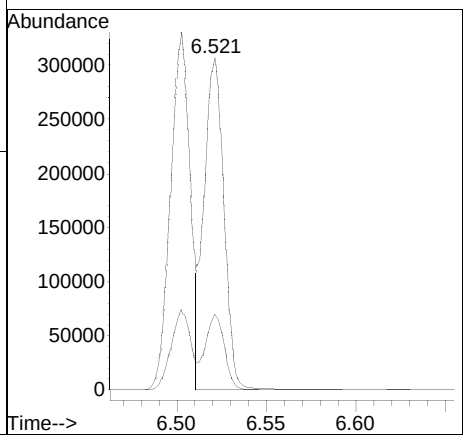


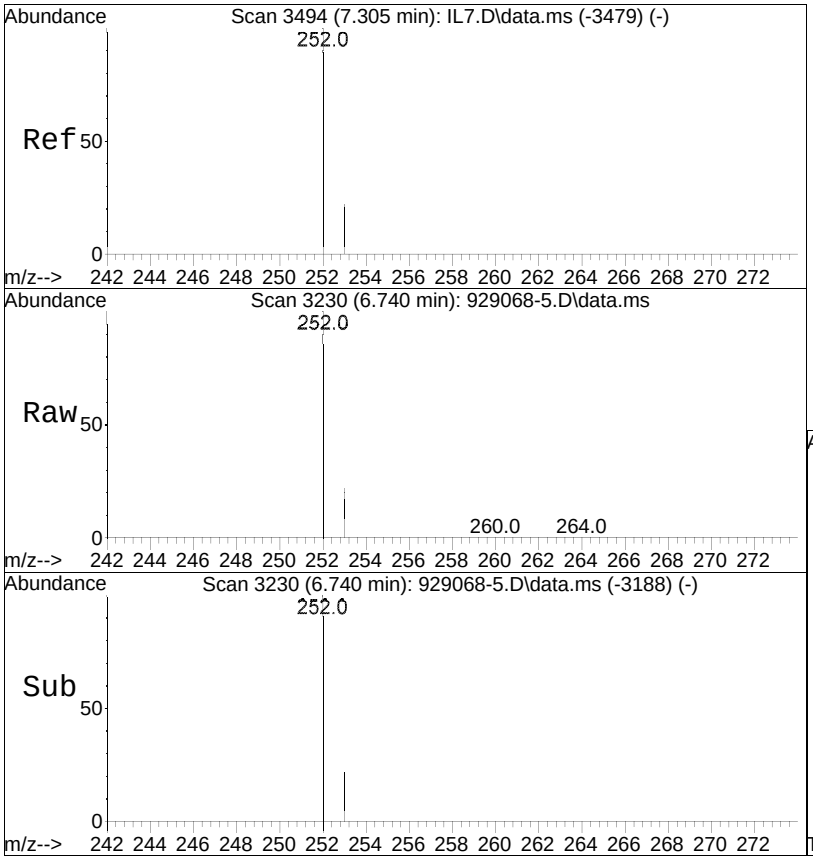


#38
Benzo[k]fluoranthene
Concen: 4403.23 ng/ml
RT: 6.521 min Scan# 3123
Delta R.T. -0.014 min
Lab File: 929068-5.D
Acq: 04 Jun 2024 11:37 am

Tgt Ion:252 Resp: 233324

Ion	Ratio	Lower	Upper
252	100		
253	21.1	17.4	26.2

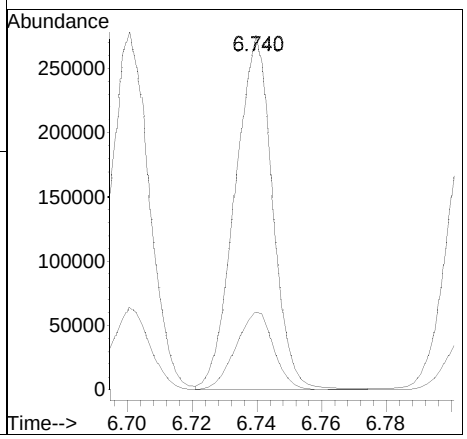


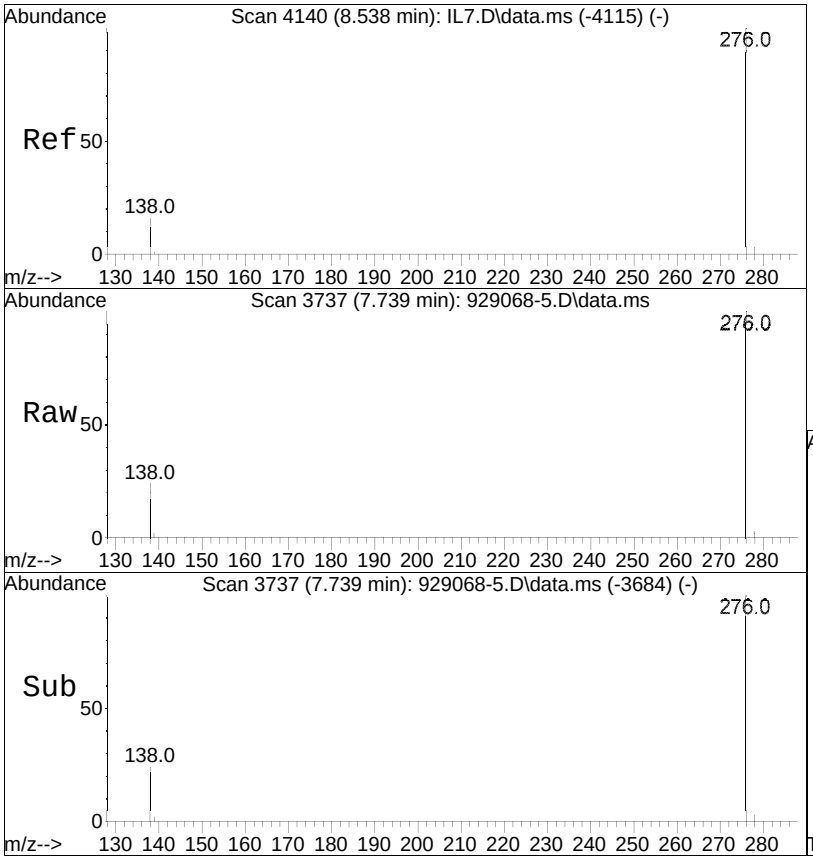


#39
Benzo[a]pyrene
Concen: 4491.20 ng/ml
RT: 6.740 min Scan# 3230
Delta R.T. -0.014 min
Lab File: 929068-5.D
Acq: 04 Jun 2024 11:37 am

Tgt Ion:252 Resp: 220606

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.4	26.0

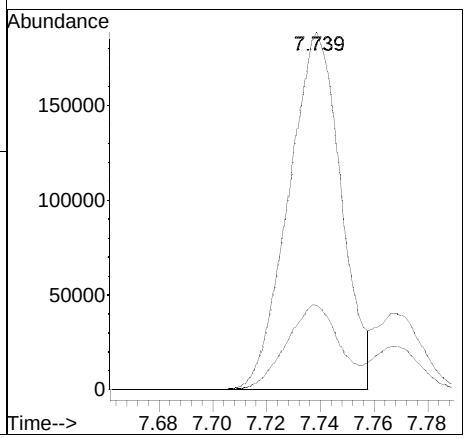


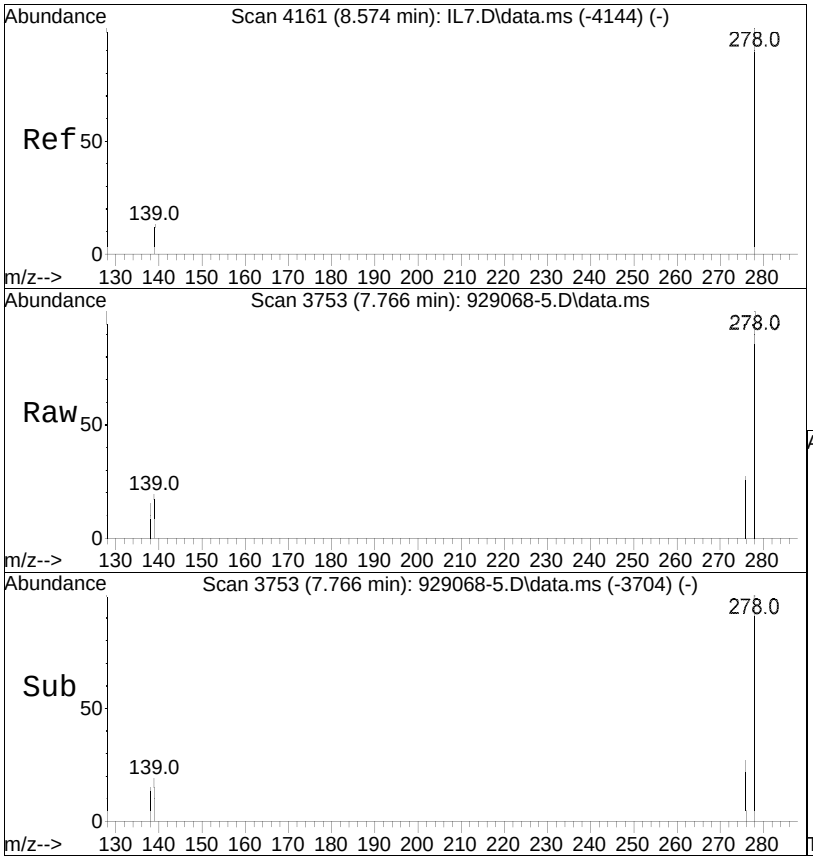


#40
Indeno[1,2,3-cd]pyrene
Concen: 4741.45 ng/ml
RT: 7.739 min Scan# 3737
Delta R.T. -0.009 min
Lab File: 929068-5.D
Acq: 04 Jun 2024 11:37 am

Tgt Ion:276 Resp: 253121

Ion	Ratio	Lower	Upper
276	100		
138	23.9	14.8	22.2#

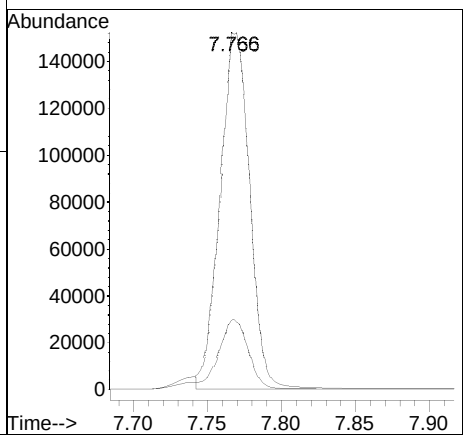


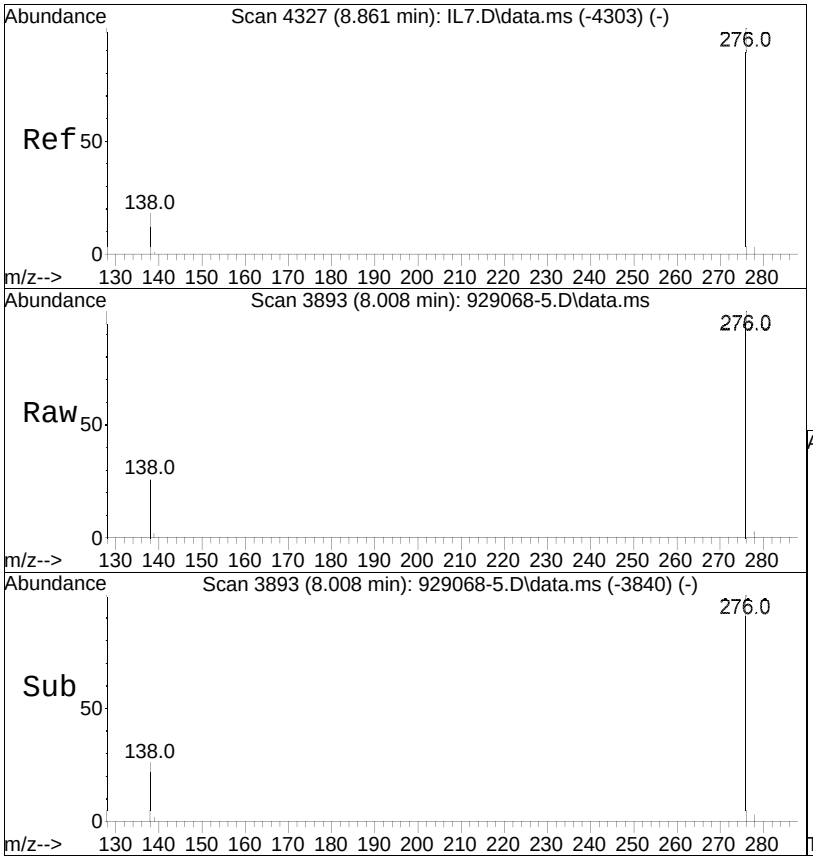


#41
Dibenzo[a,h]anthracene
Concen: 4253.49 ng/ml M6
RT: 7.766 min Scan# 3753
Delta R.T. -0.016 min
Lab File: 929068-5.D
Acq: 04 Jun 2024 11:37 am

Tgt Ion:278 Resp: 211266

Ion	Ratio	Lower	Upper
278	100		
139	19.6	12.2	18.4#

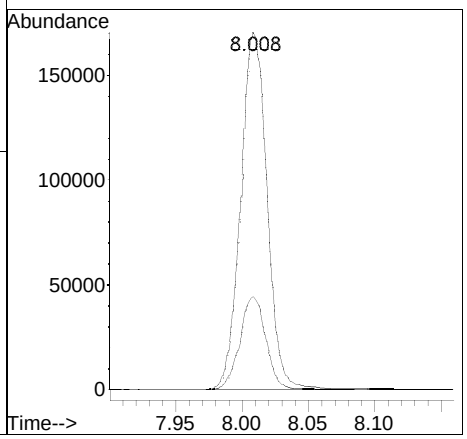




#42
Benzo[g,h,i]perylene
Concen: 4261.55 ng/ml
RT: 8.008 min Scan# 3893
Delta R.T. -0.009 min
Lab File: 929068-5.D
Acq: 04 Jun 2024 11:37 am

Tgt Ion:276 Resp: 231413

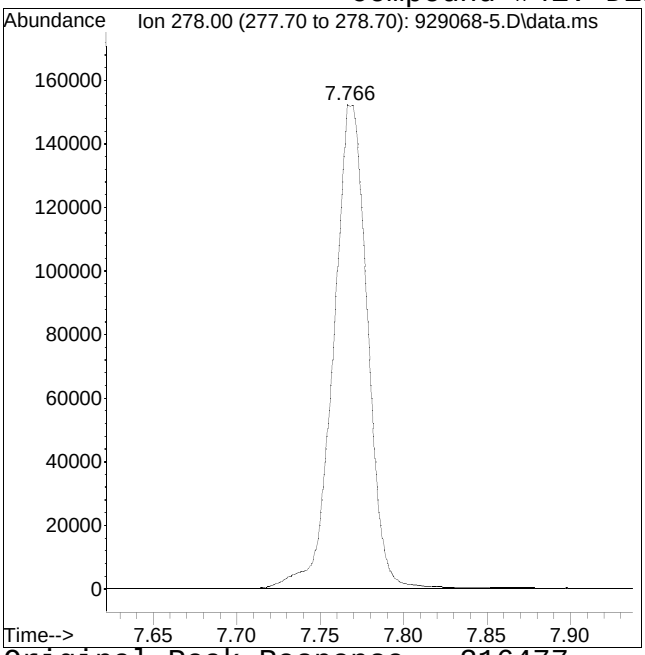
Ion	Ratio	Lower	Upper
276	100		
138	25.9	16.8	25.2#



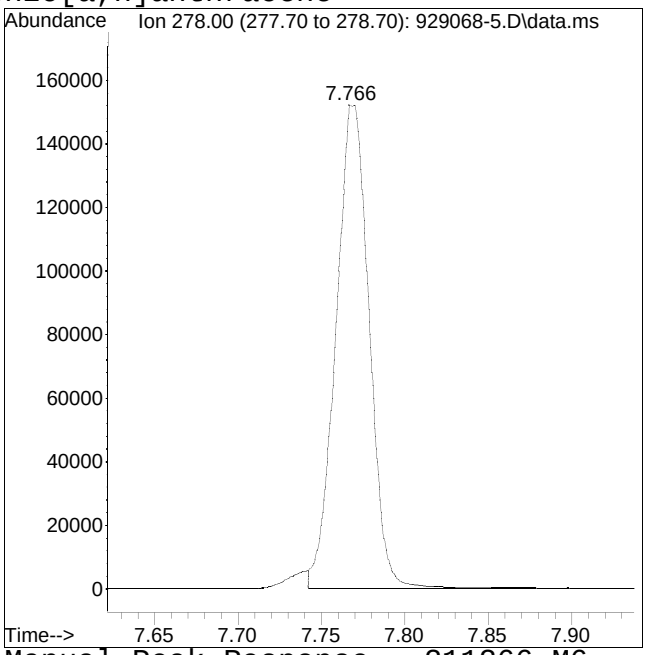
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 929068-5.D Operator : sv119:rp
Date Inj'd : 6/4/2024 11:37 am Instrument : SV119
Sample : WG1929068-5,32,,ah Quant Date : 6/4/2024 11:52 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 216477



Manual Peak Response = 211266 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 929068-7.D
Acq On : 04 Jun 2024 12:26 pm
Operator : sv119:jjw
Sample : WG1929068-7,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 06 12:34:33 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240604LVI\ccv0604.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.911	152	51879	4000.000	ng/ml	0.00
Standard Area 1 = 56492			Recovery = 91.83%			
8) Naphthalene-d8	2.552	136	176754	4000.000	ng/ml	0.00
Standard Area 1 = 186100			Recovery = 94.98%			
17) Acenaphthene-d10	3.500	164	90012	4000.000	ng/ml	0.00
Standard Area 1 = 98337			Recovery = 91.53%			
22) Phenanthrene-d10	4.320	188	193572	4000.000	ng/ml	0.00
Standard Area 1 = 215749			Recovery = 89.72%			
31) Chrysene-d12	5.843	240	153244	4000.000	ng/ml	0.00
Standard Area 1 = 188074			Recovery = 81.48%			
36) Perylene-d12	6.790	264	169638	4000.000	ng/ml	0.00
Standard Area 1 = 198758			Recovery = 85.35%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.347	112	49025	3454.954	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 69.10%			
3) Phenol-d6	1.744	99	52988	3115.258	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 62.31%			
7) Nitrobenzene-d5	2.185	82	28562	2213.736	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 88.55%			
13) 2-Fluorobiphenyl	3.139	172	67652	1713.750	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 68.55%			
21) 2,4,6-Tribromophenol	3.937	330	28460	5735.006	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 114.70%#			
30) 4-Terphenyl-d14	5.230	244	70820	1492.412	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 59.70%			
Target Compounds						Qvalue
6) Hexachloroethane	2.156	117	23672	3688.501	ng/ml	89
9) Naphthalene	2.562	128	158253	3749.599	ng/ml	100
10) Hexachlorobutadiene	2.637	225	36244	3987.565	ng/ml	100
11) 2-Methylnaphthalene	2.933	142	113389	3633.550	ng/ml	97
14) 2-Chloronaphthalene	3.196	162	119213	3586.330	ng/ml	91
16) Acenaphthylene	3.420	152	178660	3616.751	ng/ml	100
18) Acenaphthene	3.518	153	114275	4106.664	ng/ml	99
20) Fluorene	3.802	166	135994	4088.625	ng/ml	97
24) Hexachlorobenzene	4.113	284	58519	4676.292	ng/ml	100
25) Pentachlorophenol	4.225	266	40546	5073.751	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 929068-7.D
Acq On : 04 Jun 2024 12:26 pm
Operator : sv119:jjw
Sample : WG1929068-7,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 06 12:34:33 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240604LVI\ccv0604.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.332	178	205290	4175.051	ng/ml	99
27) Anthracene	4.359	178	208711	4280.307	ng/ml	99
28) Fluoranthene	5.000	202	251789	3885.338	ng/ml	100
29) Pyrene	5.126	202	255104	3831.679	ng/ml	100
32) Benzo[a]anthracene	5.837	228	243078	4769.449	ng/ml	100
34) Chrysene	5.858	228	221797	4385.393	ng/ml	99
37) Benzo[b]fluoranthene	6.506	252	239360	4038.874	ng/ml	100
38) Benzo[k]fluoranthene	6.525	252	211827	3764.154	ng/ml	98
39) Benzo[a]pyrene	6.743	252	202508	3882.049	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	7.744	276	227977	4021.133	ng/ml#	88
41) Dibenzo[a,h]anthracene	7.773	278	190668M6	3614.661	ng/ml	
42) Benzo[g,h,i]perylene	8.010	276	207902	3605.059	ng/ml#	90

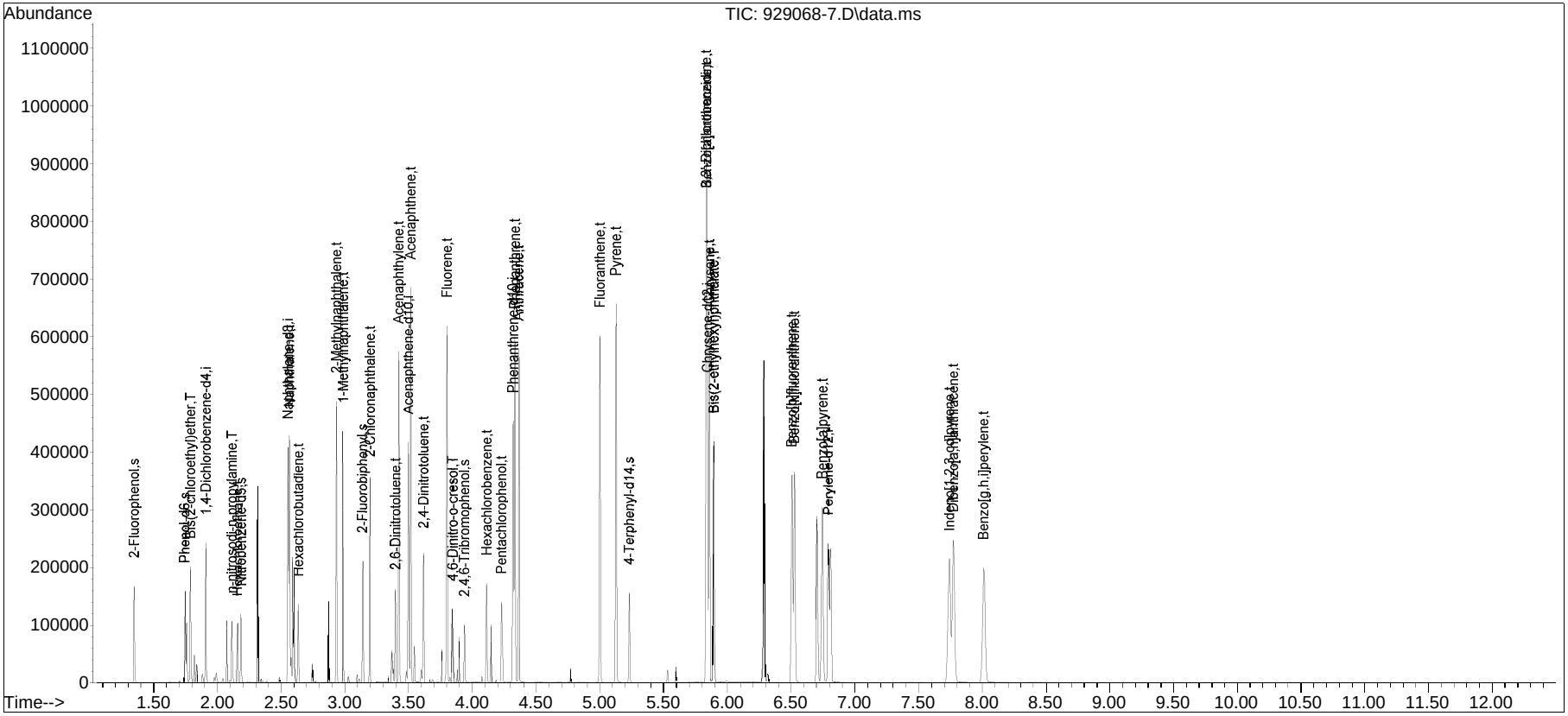
(#) = qualifier out of range (m) = manual integration (+) = signals summed

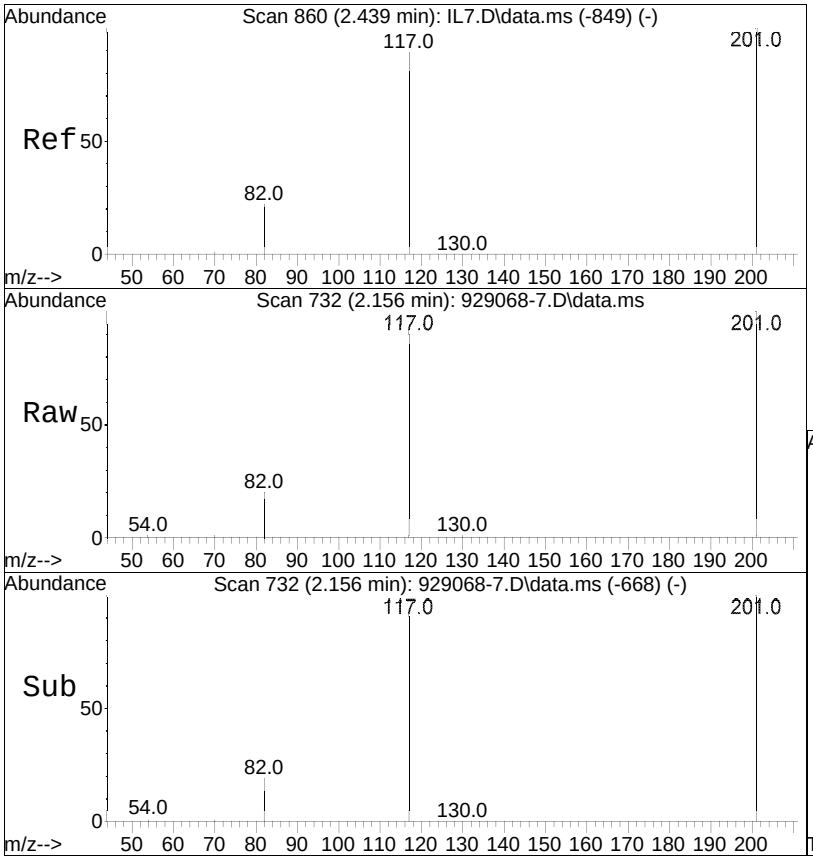
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240604LVI\
Data File : 929068-7.D
Acq On : 04 Jun 2024 12:26 pm
Operator : sv119:jjw
Sample : WG1929068-7,32,,ah
Misc : WG1929299,WG1929068,ical20642
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 06 12:34:33 2024
Quant Method : I:\8270sim\sv119\240604LVI\SIM-LVI_231207n_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 04 07:12:05 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0604.D•

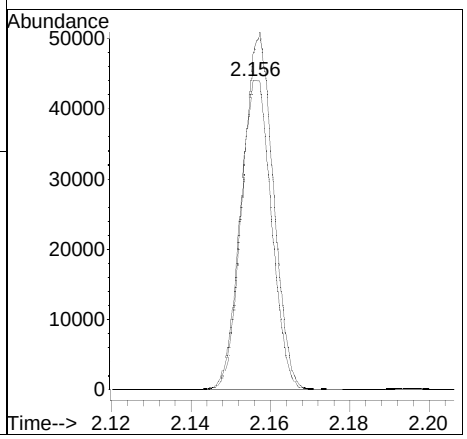


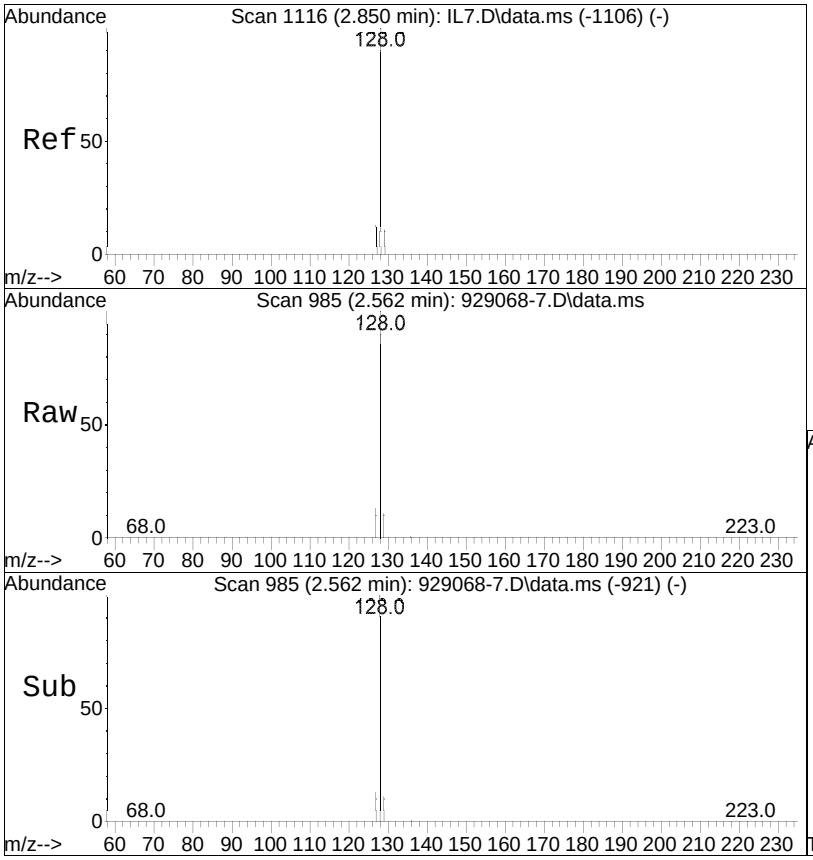


#6
Hexachloroethane
Concen: 3688.50 ng/ml
RT: 2.156 min Scan# 732
Delta R.T. 0.003 min
Lab File: 929068-7.D
Acq: 04 Jun 2024 12:26 pm

Tgt Ion:117 Resp: 23672

Ion	Ratio	Lower	Upper
117	100		
201	112.7	81.5	122.3

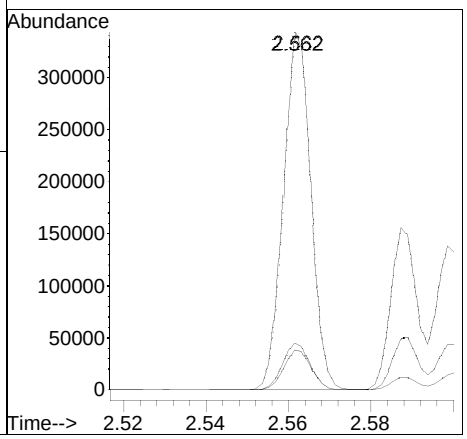


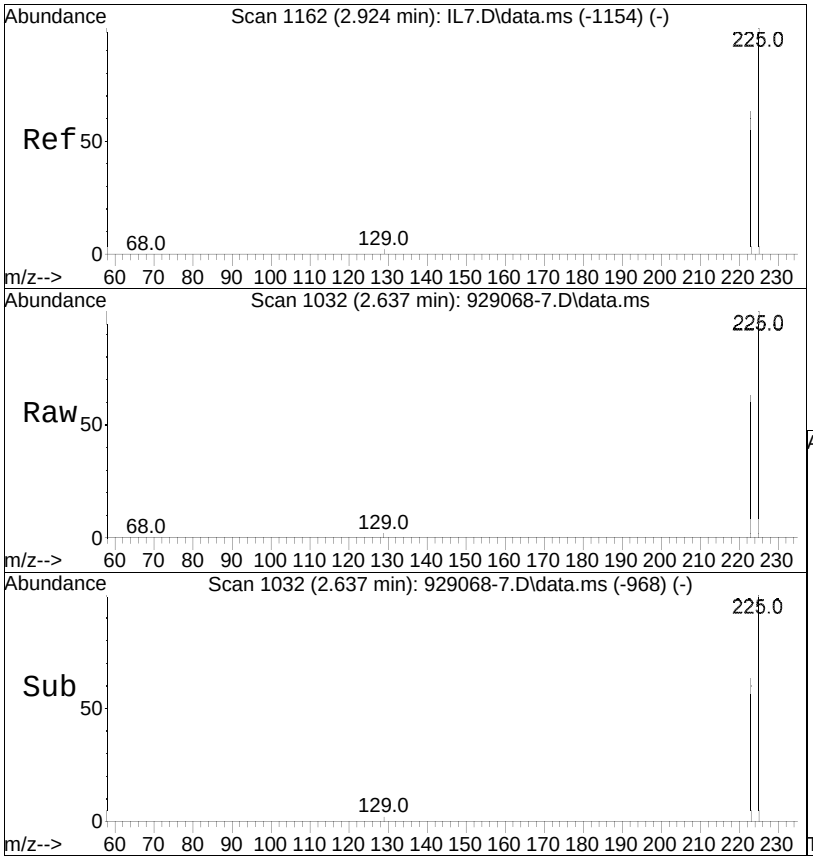


#9
Naphthalene
Concen: 3749.60 ng/ml
RT: 2.562 min Scan# 985
Delta R.T. 0.003 min
Lab File: 929068-7.D
Acq: 04 Jun 2024 12:26 pm

Tgt Ion:128 Resp: 158253

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	13.1	10.6	15.8

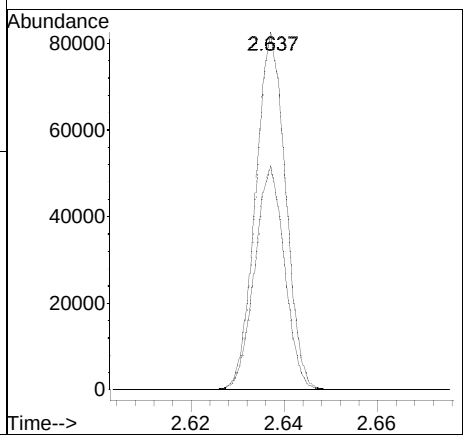


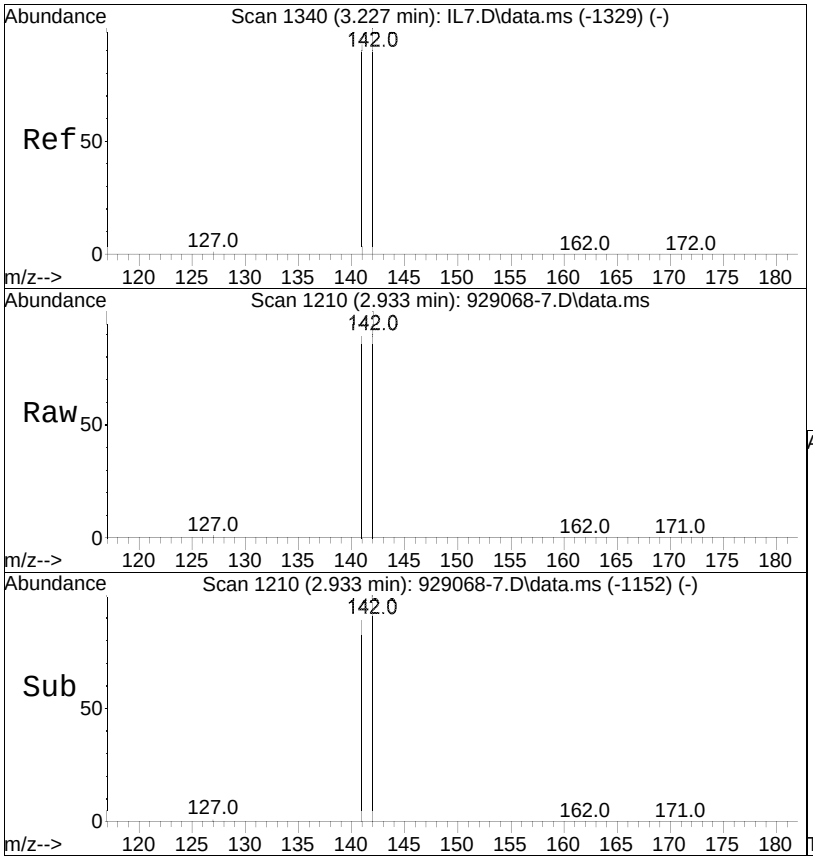


#10
Hexachlorobutadiene
Concen: 3987.57 ng/ml
RT: 2.637 min Scan# 1032
Delta R.T. 0.003 min
Lab File: 929068-7.D
Acq: 04 Jun 2024 12:26 pm

Tgt Ion:225 Resp: 36244

Ion	Ratio	Lower	Upper
225	100		
223	62.5	50.1	75.1

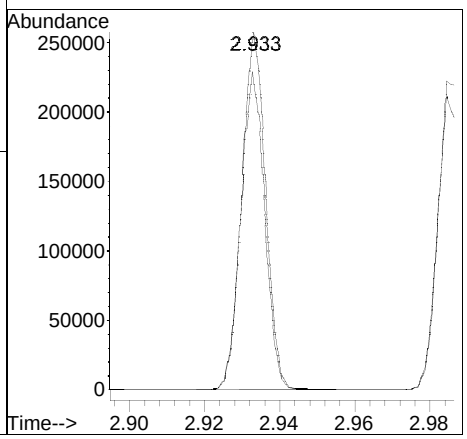


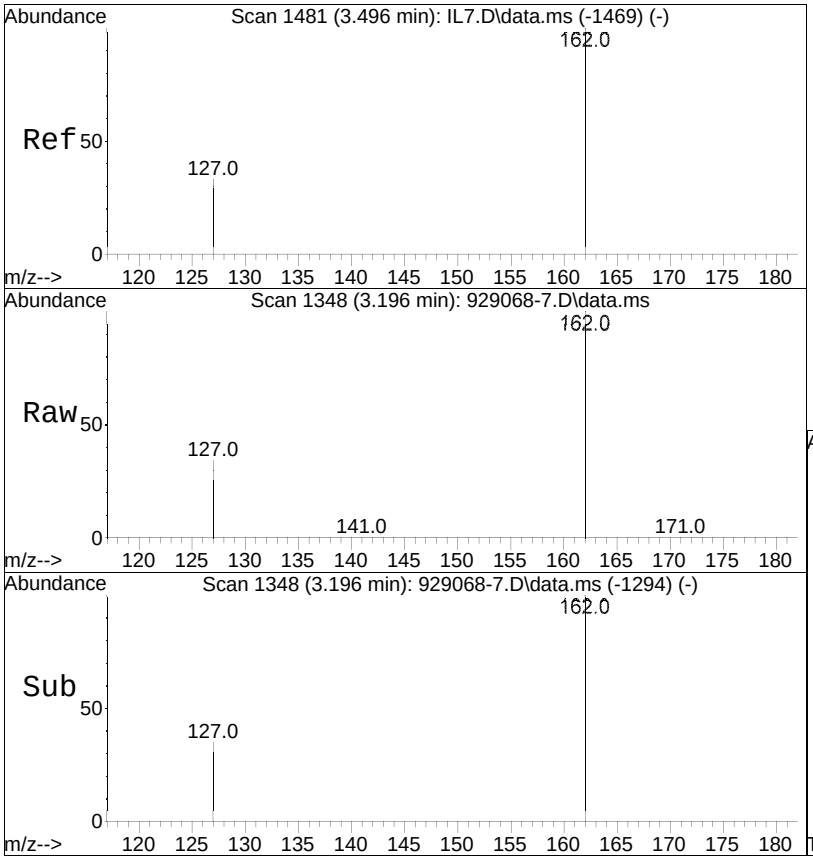


#11
2-Methylnaphthalene
Concen: 3633.55 ng/ml
RT: 2.933 min Scan# 1210
Delta R.T. 0.004 min
Lab File: 929068-7.D
Acq: 04 Jun 2024 12:26 pm

Tgt Ion:142 Resp: 113389

Ion	Ratio	Lower	Upper
142	100		
141	89.5	74.1	111.1

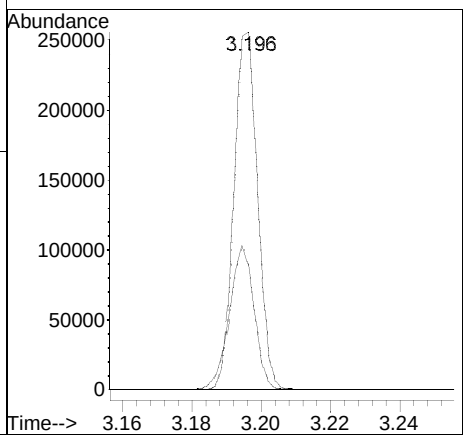


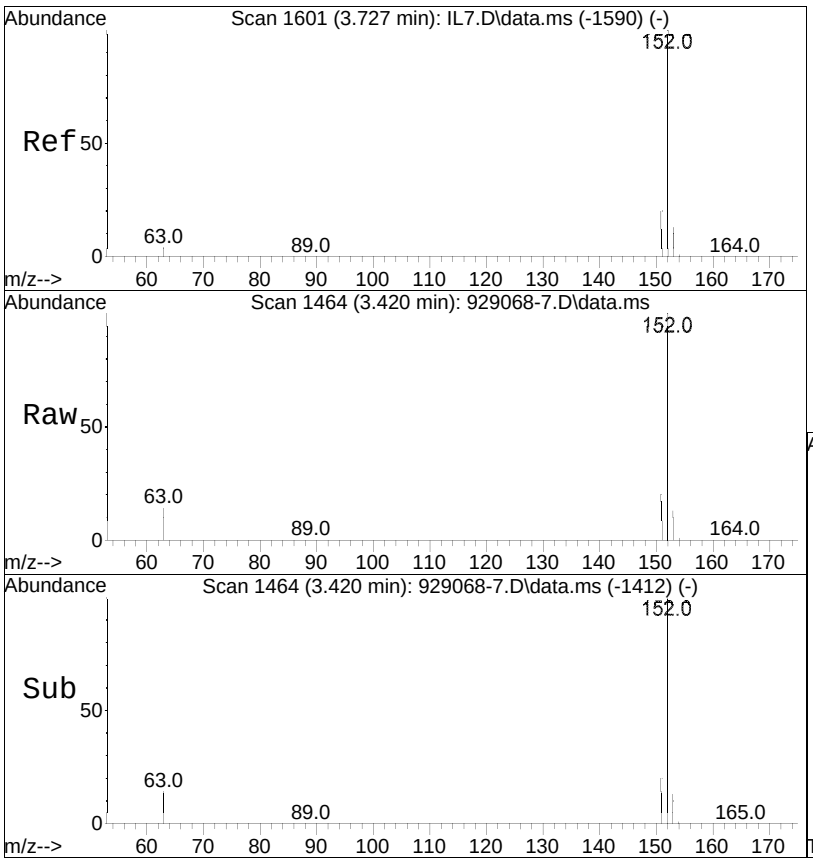


#14
2-Chloronaphthalene
Concen: 3586.33 ng/ml
RT: 3.196 min Scan# 1348
Delta R.T. 0.004 min
Lab File: 929068-7.D
Acq: 04 Jun 2024 12:26 pm

Tgt Ion:162 Resp: 119213

Ion	Ratio	Lower	Upper
162	100		
127	42.4	29.7	44.5

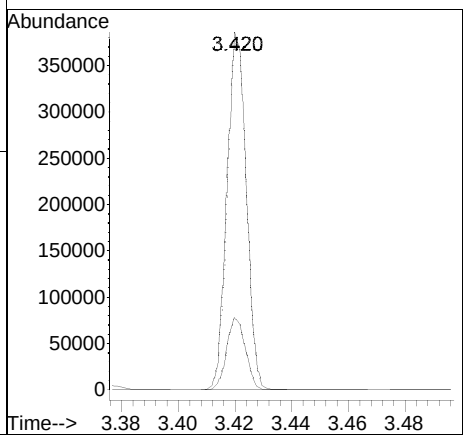


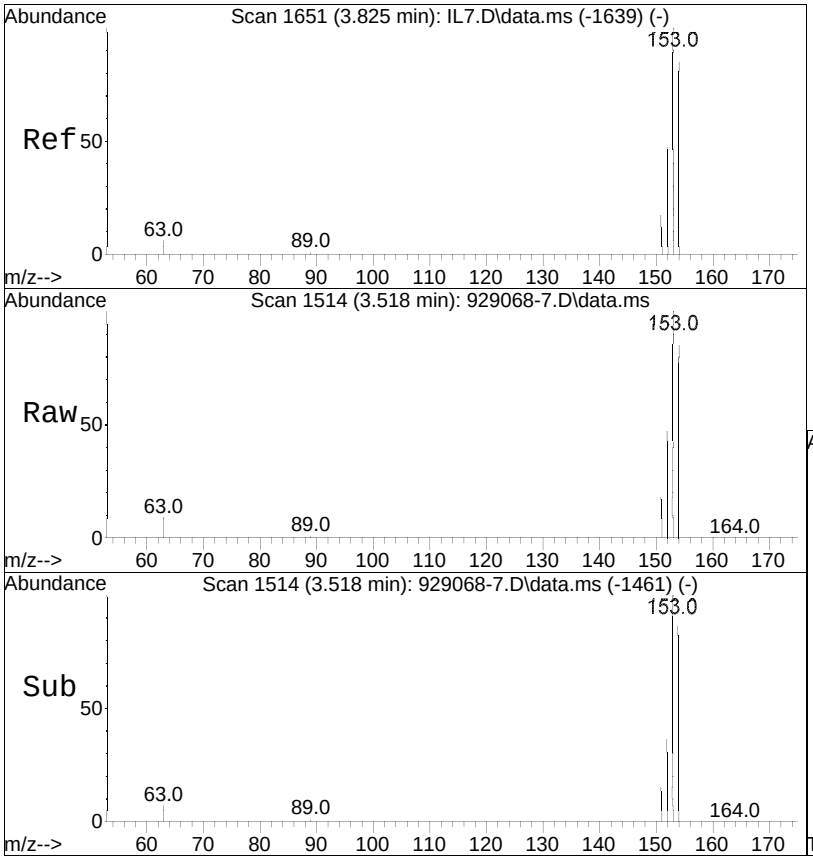


#16
Acenaphthylene
Concen: 3616.75 ng/ml
RT: 3.420 min Scan# 1464
Delta R.T. 0.002 min
Lab File: 929068-7.D
Acq: 04 Jun 2024 12:26 pm

Tgt Ion:152 Resp: 178660

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.0	24.0

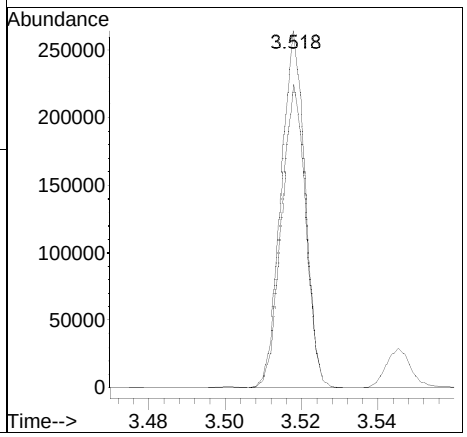


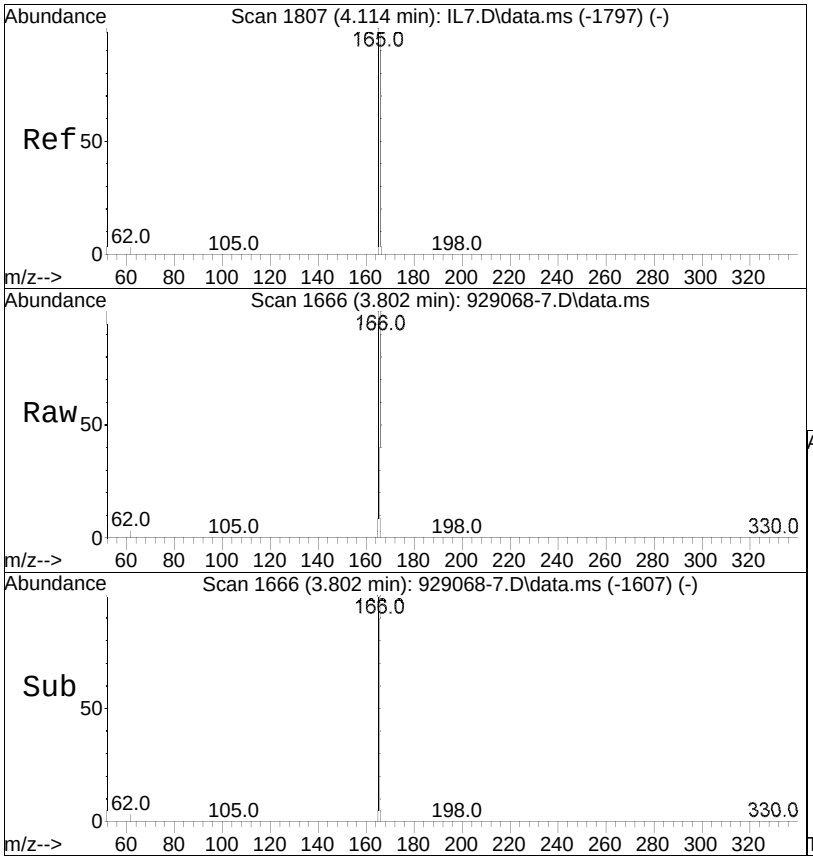


#18
Acenaphthene
Concen: 4106.66 ng/ml
RT: 3.518 min Scan# 1514
Delta R.T. 0.004 min
Lab File: 929068-7.D
Acq: 04 Jun 2024 12:26 pm

Tgt Ion:153 Resp: 114275

Ion	Ratio	Lower	Upper
153	100		
154	85.0	66.9	100.3

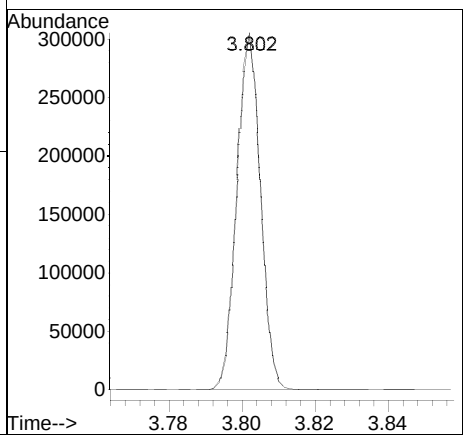


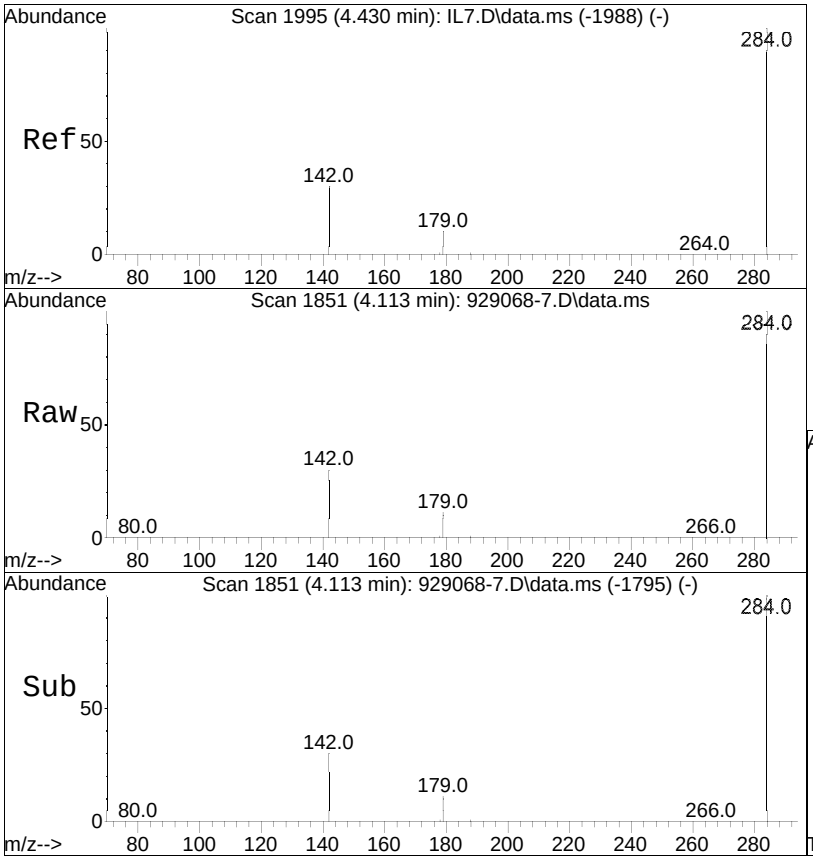


#20
Fluorene
Concen: 4088.63 ng/ml
RT: 3.802 min Scan# 1666
Delta R.T. 0.001 min
Lab File: 929068-7.D
Acq: 04 Jun 2024 12:26 pm

Tgt Ion:166 Resp: 135994

Ion	Ratio	Lower	Upper
166	100		
165	100.8	82.9	124.3

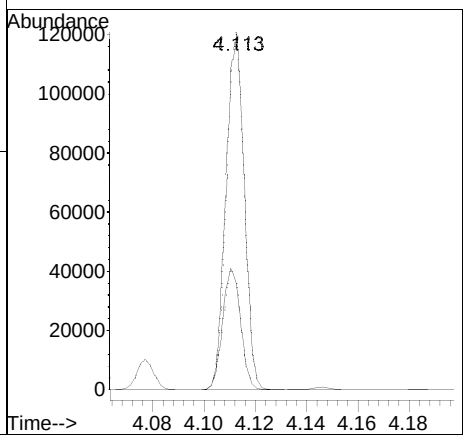


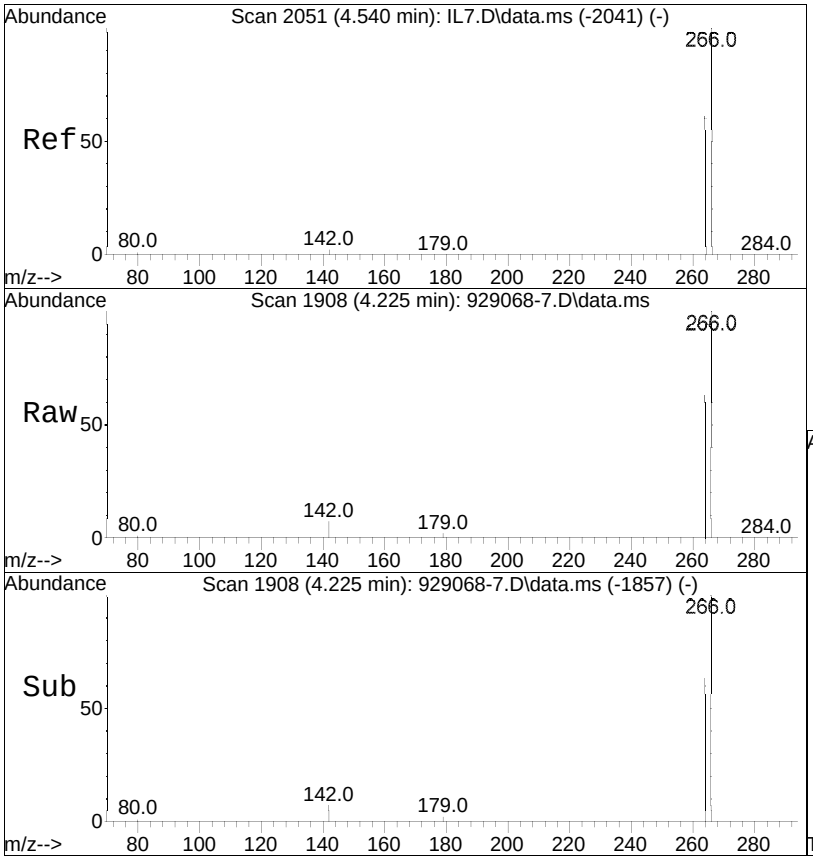


#24
Hexachlorobenzene
Concen: 4676.29 ng/ml
RT: 4.113 min Scan# 1851
Delta R.T. 0.002 min
Lab File: 929068-7.D
Acq: 04 Jun 2024 12:26 pm

Tgt Ion:284 Resp: 58519

Ion	Ratio	Lower	Upper
284	100		
142	33.8	26.9	40.3

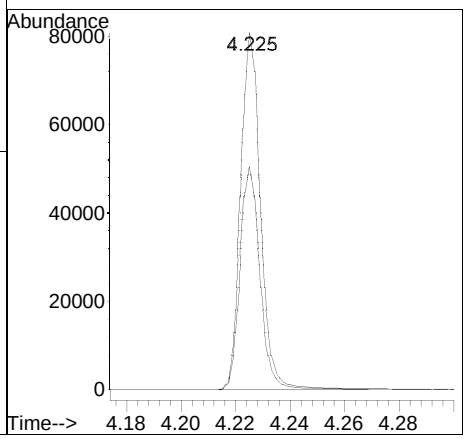


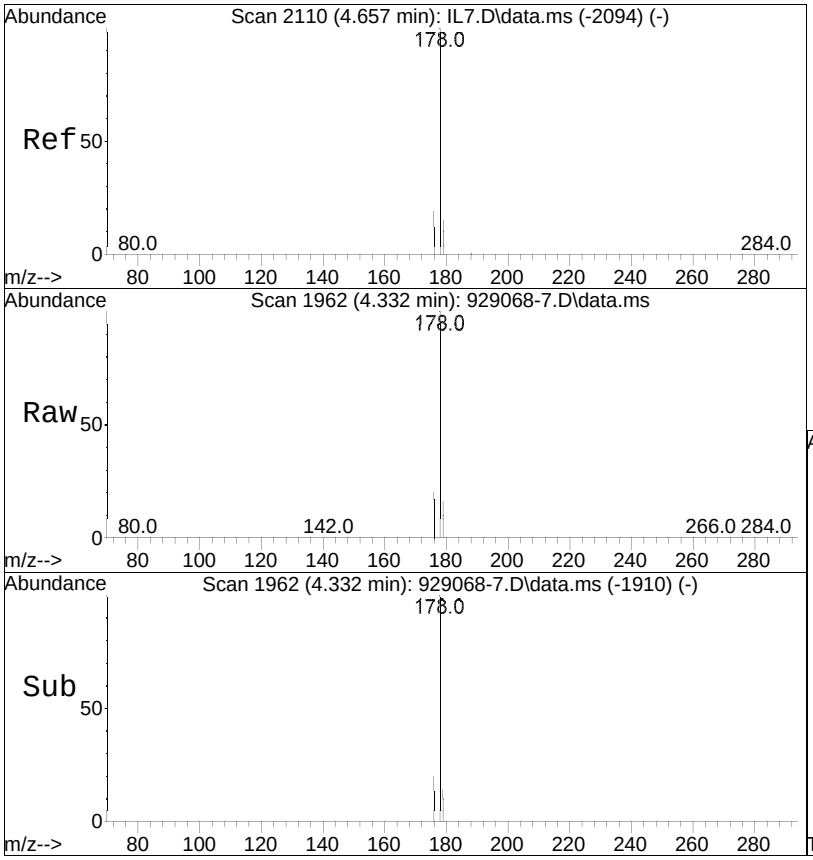


#25
Pentachlorophenol
Concen: 5073.75 ng/ml
RT: 4.225 min Scan# 1908
Delta R.T. -0.000 min
Lab File: 929068-7.D
Acq: 04 Jun 2024 12:26 pm

Tgt Ion:266 Resp: 40546

Ion	Ratio	Lower	Upper
266	100		
264	62.8	50.7	76.1

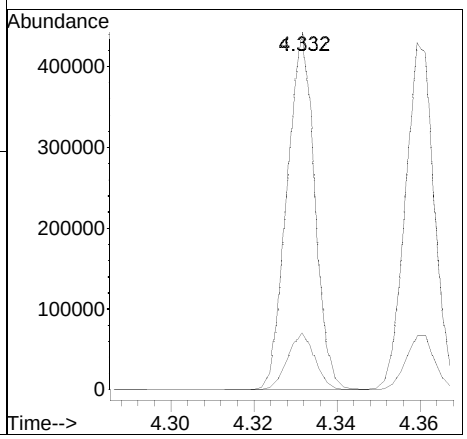


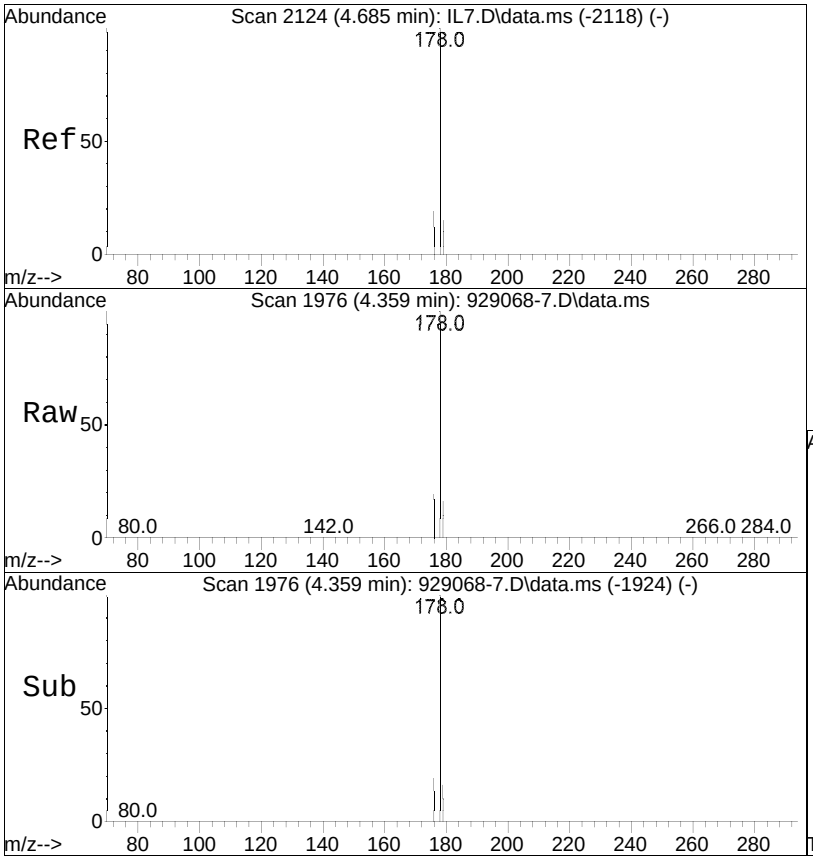


#26
Phenanthrene
Concen: 4175.05 ng/ml
RT: 4.332 min Scan# 1962
Delta R.T. 0.002 min
Lab File: 929068-7.D
Acq: 04 Jun 2024 12:26 pm

Tgt Ion:178 Resp: 205290

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.3	18.5

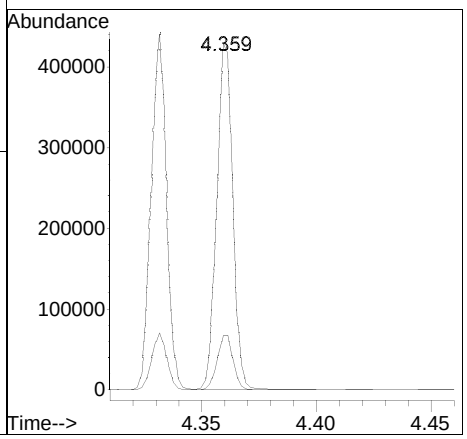


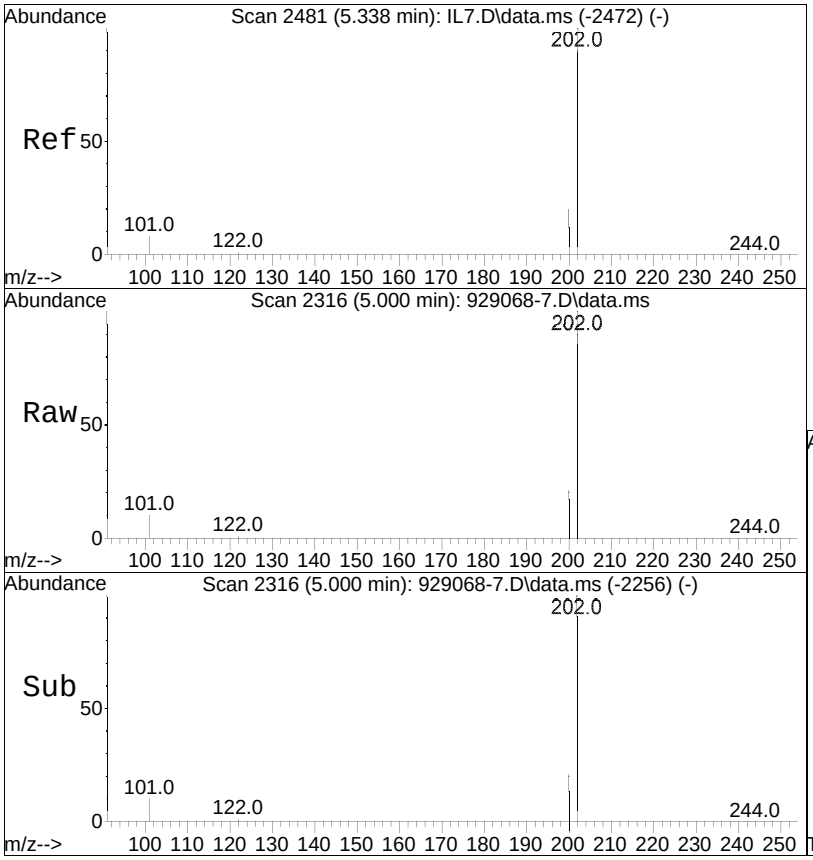


#27
Anthracene
Concen: 4280.31 ng/ml
RT: 4.359 min Scan# 1976
Delta R.T. 0.002 min
Lab File: 929068-7.D
Acq: 04 Jun 2024 12:26 pm

Tgt Ion:178 Resp: 208711

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.2	18.4

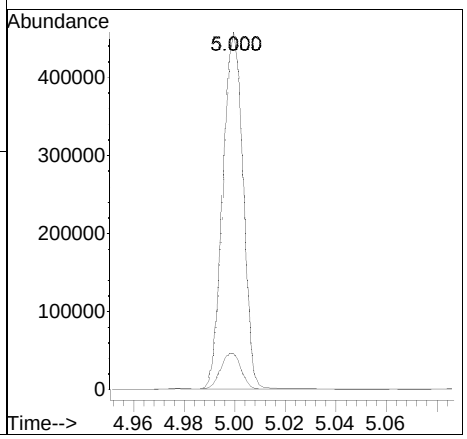


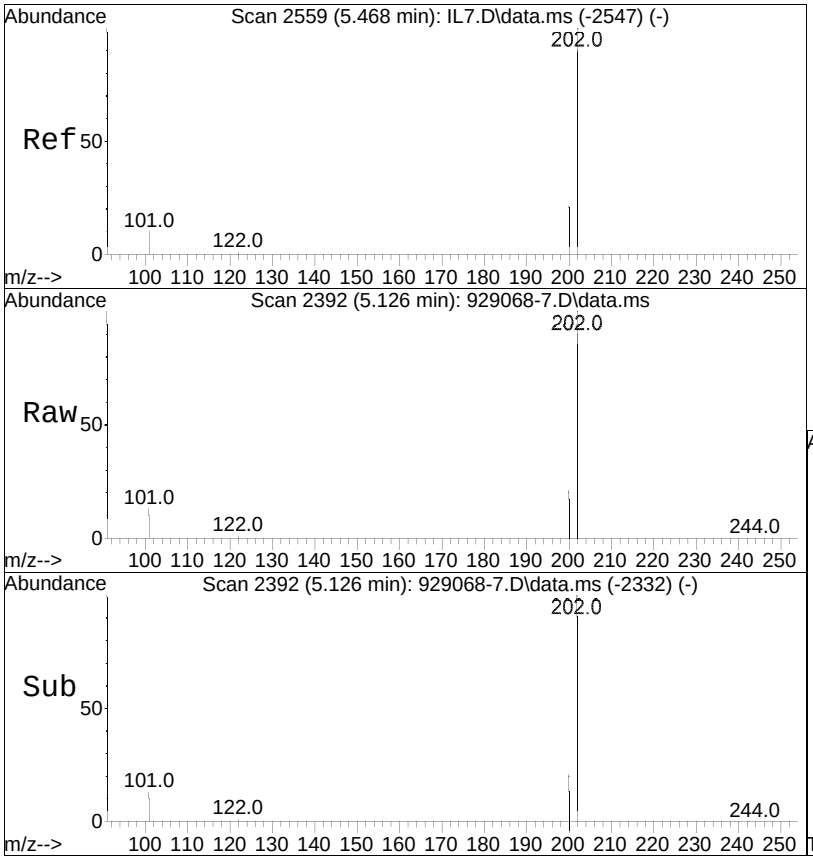


#28
Fluoranthene
Concen: 3885.34 ng/ml
RT: 5.000 min Scan# 2316
Delta R.T. -0.000 min
Lab File: 929068-7.D
Acq: 04 Jun 2024 12:26 pm

Tgt Ion:202 Resp: 251789

Ion	Ratio	Lower	Upper
202	100		
101	10.5	8.3	12.5

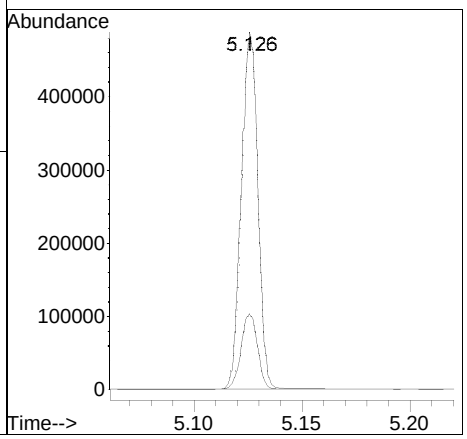


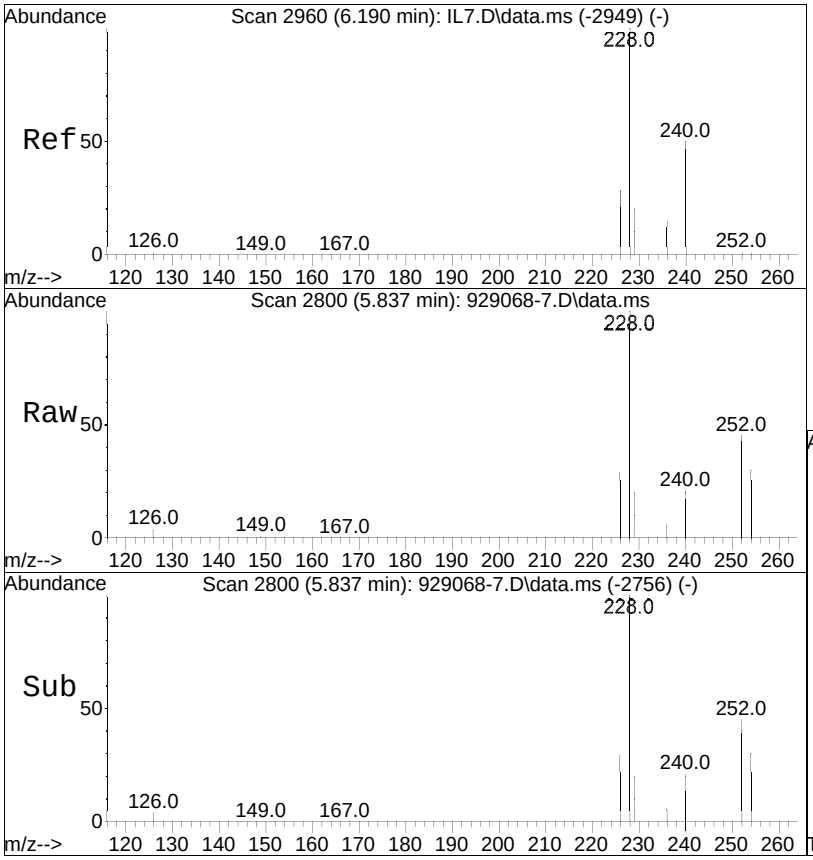


#29
Pyrene
Concen: 3831.68 ng/ml
RT: 5.126 min Scan# 2392
Delta R.T. -0.000 min
Lab File: 929068-7.D
Acq: 04 Jun 2024 12:26 pm

Tgt Ion:202 Resp: 255104

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.3	25.9

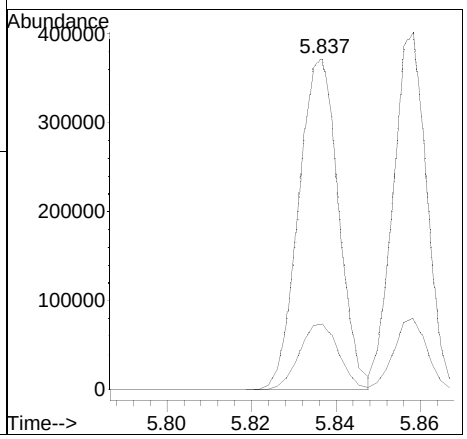


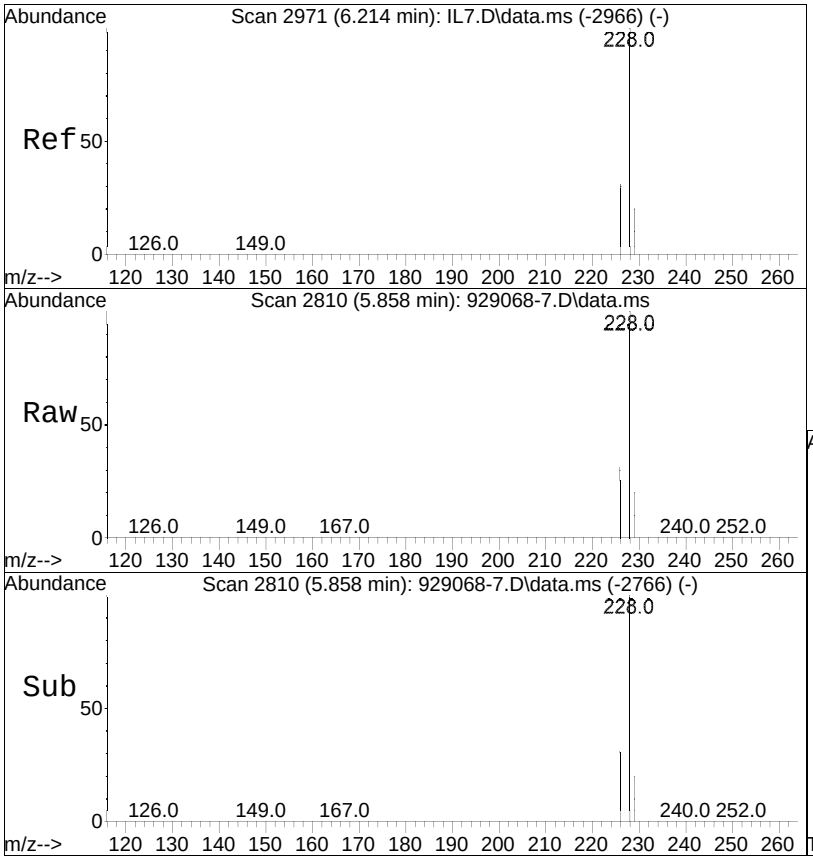


#32
Benzo[a]anthracene
Concen: 4769.45 ng/ml
RT: 5.837 min Scan# 2800
Delta R.T. -0.007 min
Lab File: 929068-7.D
Acq: 04 Jun 2024 12:26 pm

Tgt Ion:228 Resp: 243078

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.6	23.4

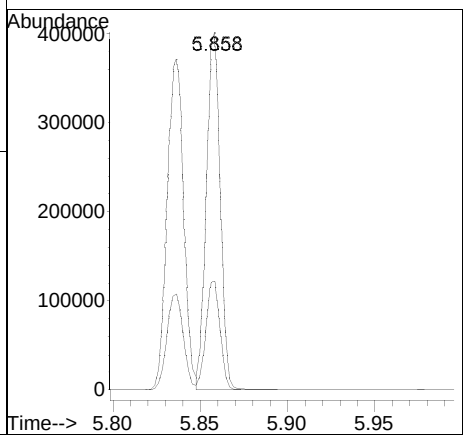


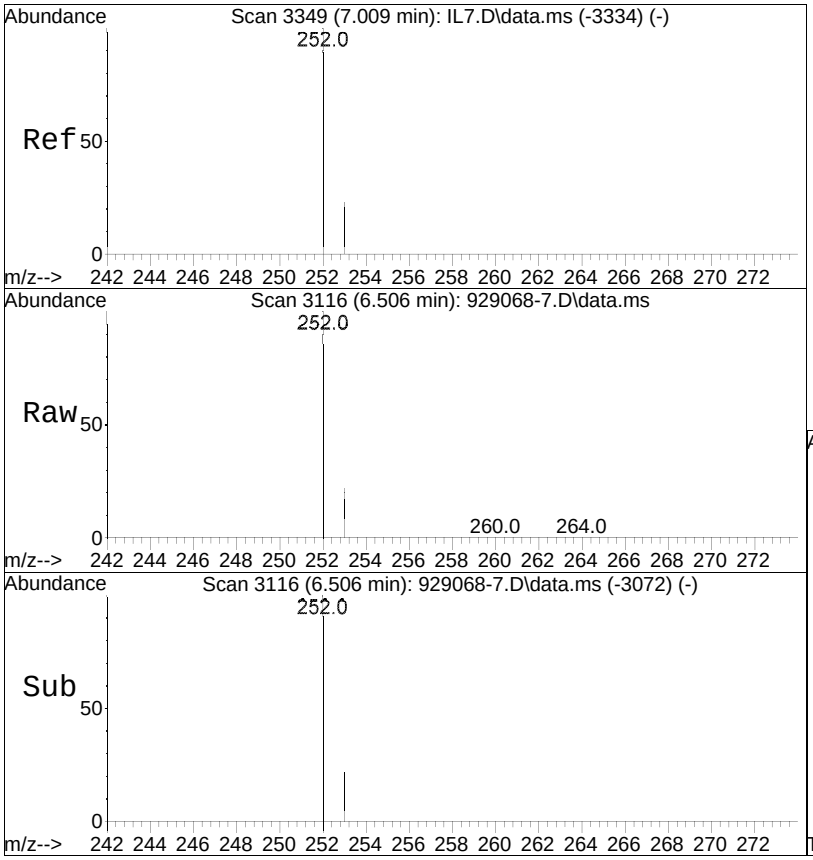


#34
Chrysene
Concen: 4385.39 ng/ml
RT: 5.858 min Scan# 2810
Delta R.T. -0.007 min
Lab File: 929068-7.D
Acq: 04 Jun 2024 12:26 pm

Tgt Ion:228 Resp: 221797

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.5	36.7

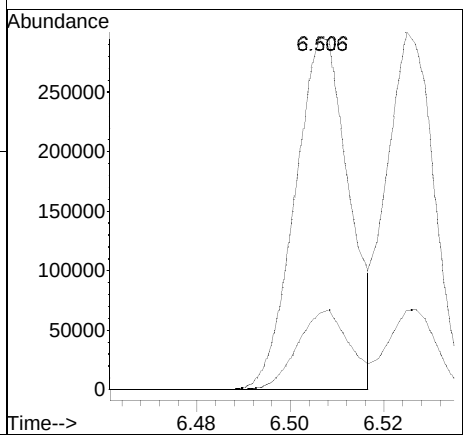


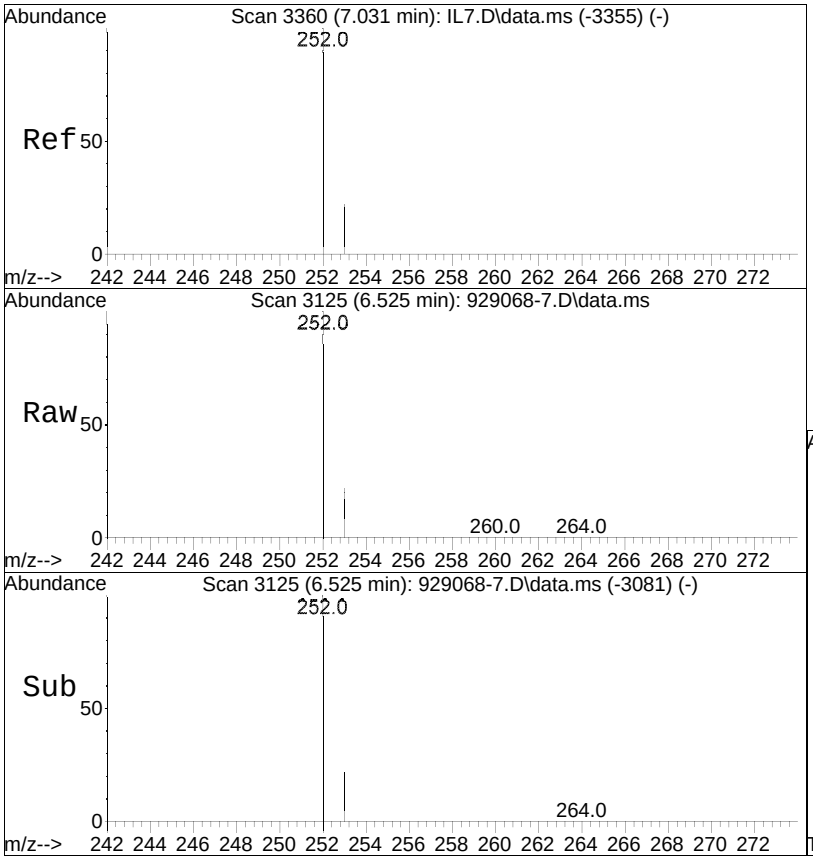


#37
Benzo[b]fluoranthene
Concen: 4038.87 ng/ml
RT: 6.506 min Scan# 3116
Delta R.T. -0.010 min
Lab File: 929068-7.D
Acq: 04 Jun 2024 12:26 pm

Tgt Ion:252 Resp: 239360

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.3	25.9

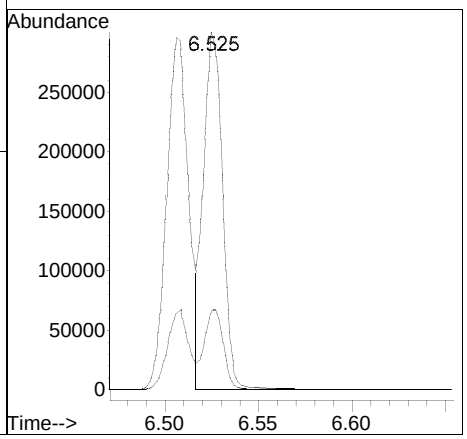


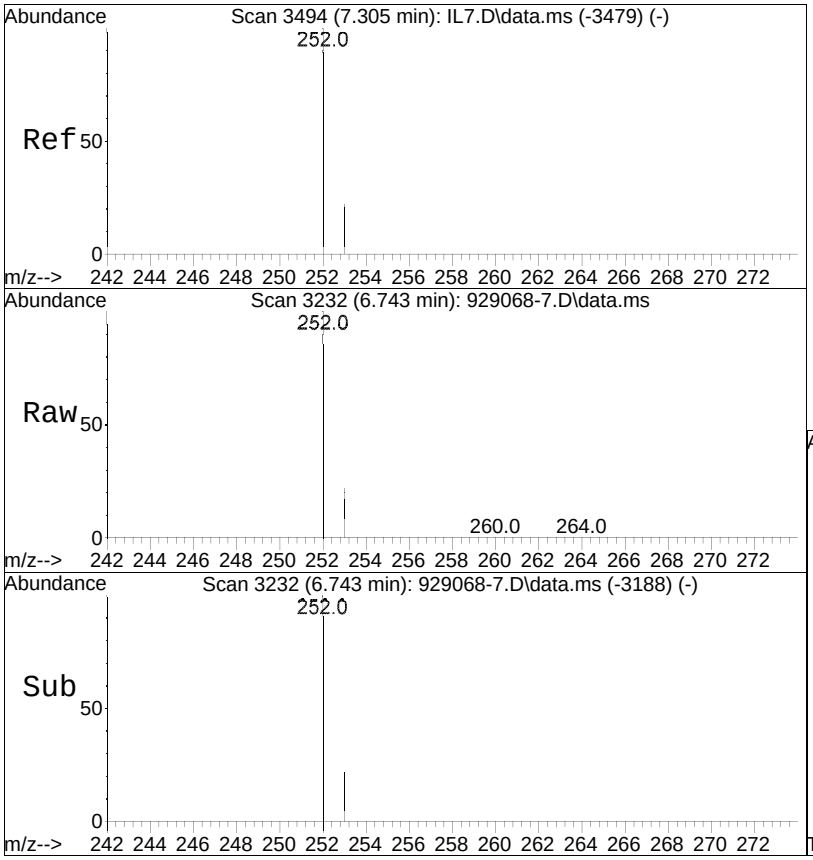


#38
Benzo[k]fluoranthene
Concen: 3764.15 ng/ml
RT: 6.525 min Scan# 3125
Delta R.T. -0.010 min
Lab File: 929068-7.D
Acq: 04 Jun 2024 12:26 pm

Tgt Ion:252 Resp: 211827

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.4	26.2

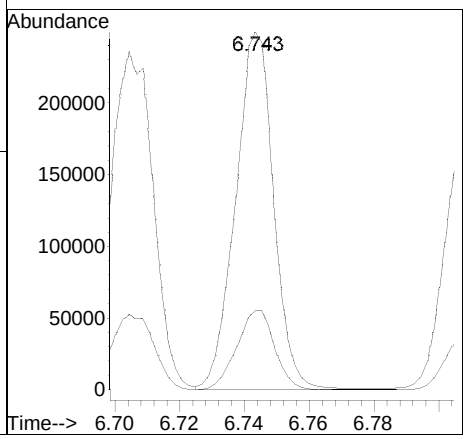


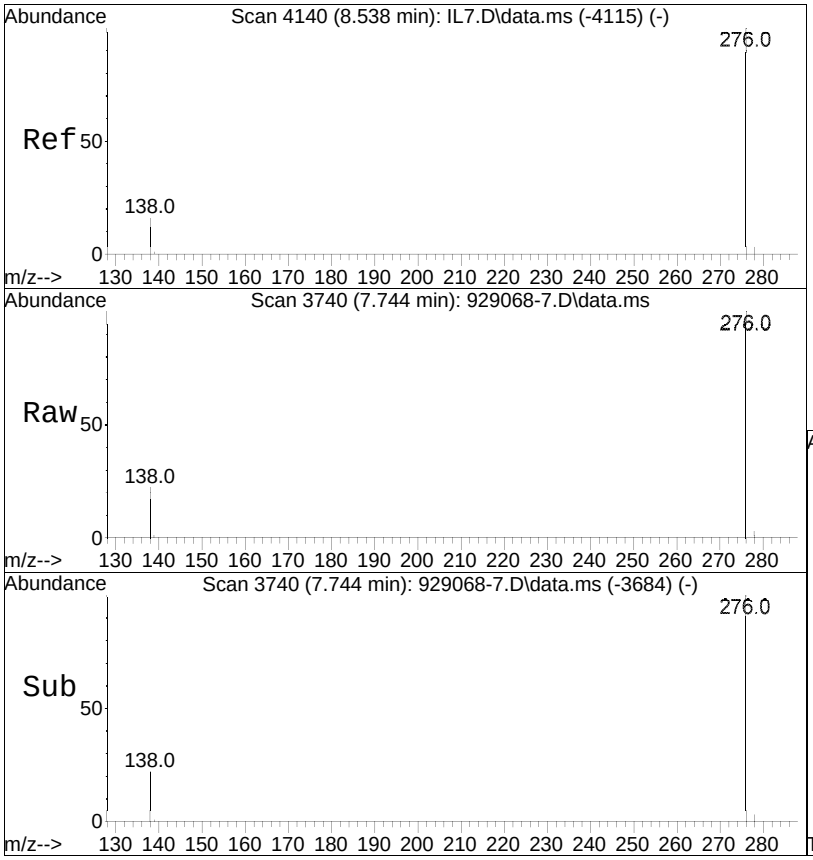


#39
Benzo[a]pyrene
Concen: 3882.05 ng/ml
RT: 6.743 min Scan# 3232
Delta R.T. -0.010 min
Lab File: 929068-7.D
Acq: 04 Jun 2024 12:26 pm

Tgt Ion:252 Resp: 202508

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.4	26.0

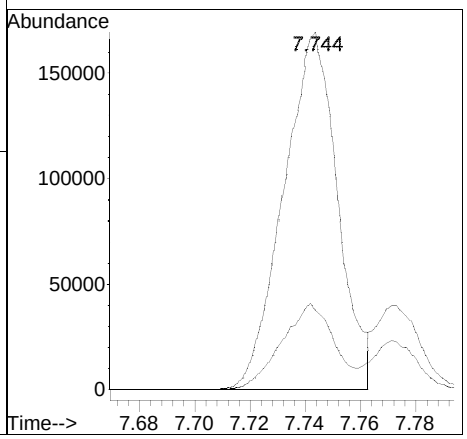


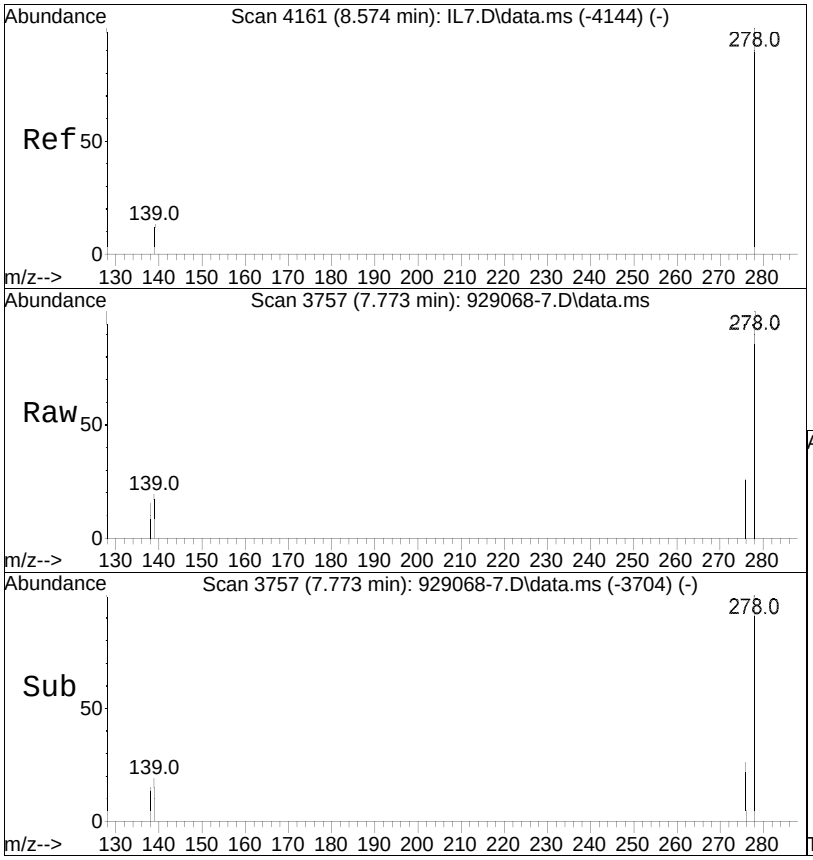


#40
Indeno[1,2,3-cd]pyrene
Concen: 4021.13 ng/ml
RT: 7.744 min Scan# 3740
Delta R.T. -0.004 min
Lab File: 929068-7.D
Acq: 04 Jun 2024 12:26 pm

Tgt Ion:276 Resp: 227977

Ion	Ratio	Lower	Upper
276	100		
138	23.7	14.8	22.2#

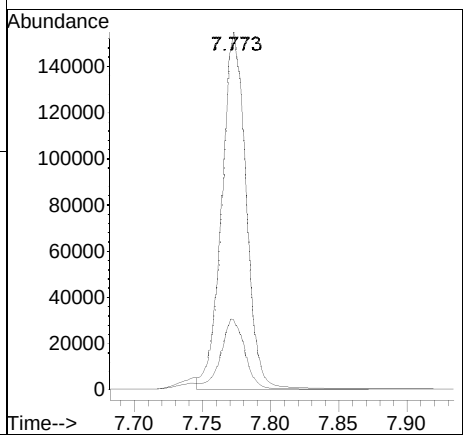


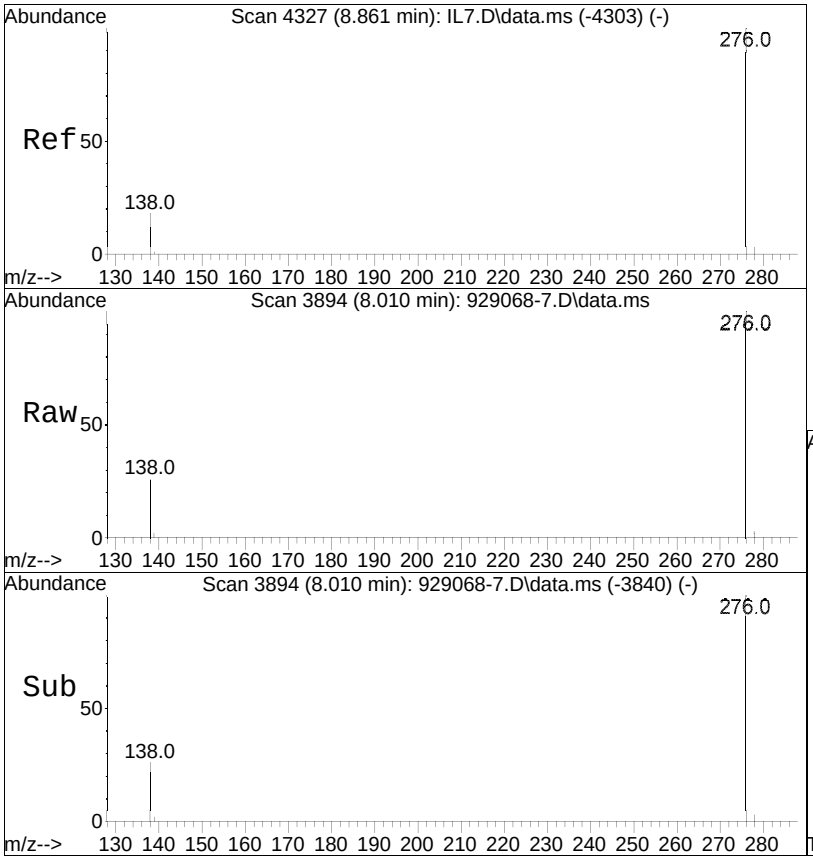


#41
Dibenzo[a,h]anthracene
Concen: 3614.66 ng/ml M6
RT: 7.773 min Scan# 3757
Delta R.T. -0.009 min
Lab File: 929068-7.D
Acq: 04 Jun 2024 12:26 pm

Tgt Ion:278 Resp: 190668

Ion	Ratio	Lower	Upper
278	100		
139	19.2	12.2	18.4#

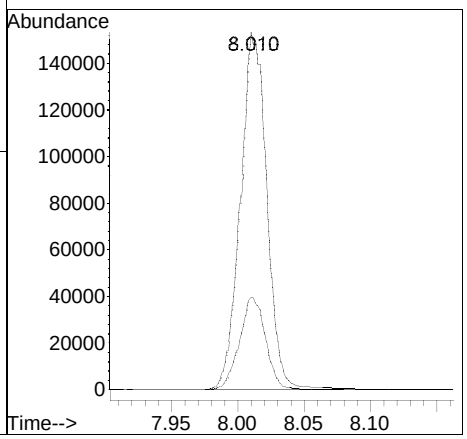




#42
Benzo[g,h,i]perylene
Concen: 3605.06 ng/ml
RT: 8.010 min Scan# 3894
Delta R.T. -0.007 min
Lab File: 929068-7.D
Acq: 04 Jun 2024 12:26 pm

Tgt Ion:276 Resp: 207902

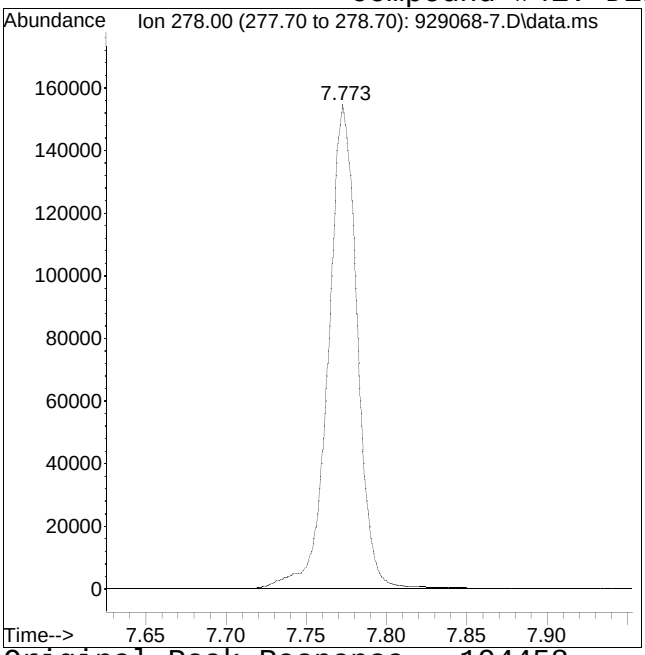
Ion	Ratio	Lower	Upper
276	100		
138	25.8	16.8	25.2#



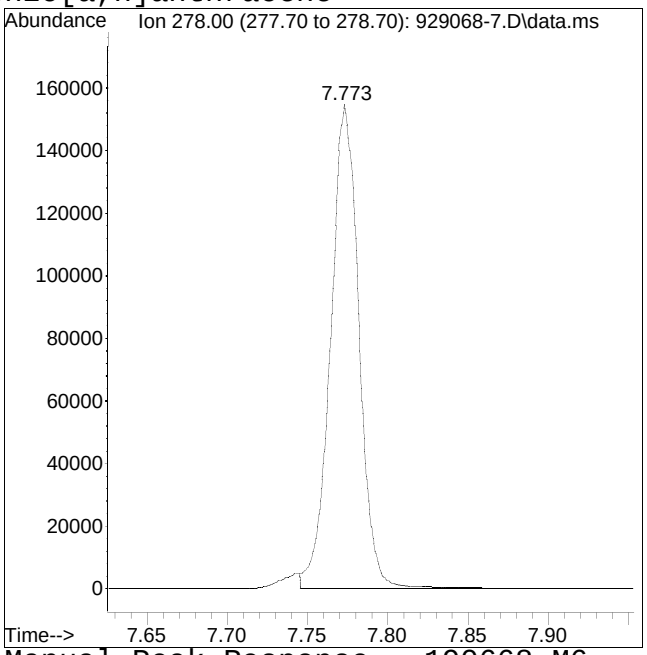
Manual Integration Report

Data Path : I:\8270SIM\sv119\240604LVIQMethod : SIM-LVI_231207n_sv119.M
Data File : 929068-7.D Operator : sv119:jjw
Date Inj'd : 6/4/2024 12:26 pm Instrument : SV119
Sample : WG1929068-7,32,,ah Quant Date : 6/4/2024 12:41 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 194458



Manual Peak Response = 190668 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * 1000 * (1/Vo) * Vf

Where:
DF = Dilution Factor
Vo = Volume of Sample (mL)
Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)
Where:
DF = Dilution Factor
Wt = Weight of Sample (g)
Vf = Extraction Lab Final Volume (mL)
TS = Total Solids

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 18 2024, 04:51 pm

Work Group: WG1929068 for Department: 2 Organic Preparation

Created: 03-JUN-24 Due: Operator: LJO

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2429887-01	MW-1	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0606	0606	S0	Amber-A.25
L2429887-02	MW-2	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0606	0606	S0	Amber-A.25
L2429887-03	MW-3	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0606	0606	S0	Amber-A.25
L2429887-04	MW-4	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0606	0606	S0	Amber-A.25
L2430117-01	MW-1	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0605	0607	S0	Amber-A.25
L2430117-02	MW-2	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0605	0607	S0	Amber-A.25
L2430117-03	MW-3	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0605	0607	S0	Amber-A.25
L2430117-04	MW-4	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0605	0607	S0	Amber-A.25
L2430117-05	DUP	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0605	0607	S0	Amber-A.25
L2430117-06	EB	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0605	0607	S0	Amber-A.25
L2430219-01	MW-1S	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0606	0607	S0	Amber-A.25
L2430219-02	MW-2S	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0606	0607	S0	Amber-A.25
L2430219-03	MW-3S	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0606	0607	S0	Amber-A.25
L2430219-04	MW-4D	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0606	0607	S0	Amber-A.25
L2430219-05	MW-5S	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0606	0607	S0	Amber-A.25
L2430219-06	MW-6D	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0606	0607	S0	Amber-A.25
L2430219-07	MW-7S	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0606	0607	S0	Amber-A.25
L2430219-08	MW-8S	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0606	0607	S0	Amber-A.25
L2430219-09	DUP	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0606	0607	S0	Amber-A.25
L2430219-10	FB	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0606	0607	S0	Amber-A.25
WG1929068-1	Laboratory Method Bl	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1929068-2	Laboratory Control S	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1929068-3	LCS Duplicate	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1929068-4	Matrix Spike	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1929068-5	Matrix Spike Duplica	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1929068-6	Matrix Spike	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1929068-7	Matrix Spike Duplica	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				

Comments:

WG1929068-3	WG1929068-2
WG1929068-4	L2430117-03
WG1929068-5	L2430117-03
WG1929068-6	L2430219-04
WG1929068-7	L2430219-04

Analysis log File

Total Files Reported in Log : 13
Log Generated From Directory: I:\8270SIM\sv119\231207nLVIical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	TUNE.D	DFTPPRUN.M	TUNE	WG1861379,,ical	12/7/2023 12:42 pm
2	IL10.D	SIM-LVI-fast	IL10,32,,20 Lot#10186	WG1861379,,ical	12/7/2023 1:10 pm
3	IL9.D	SIM-LVI-fast	IL9,32,,10 Lot#10227	WG1861379,,ical	12/7/2023 1:27 pm
4	IL8.D	SIM-LVI-fast	IL8,32,,5 Lot#10228	WG1861379,,ical	12/7/2023 1:46 pm
5	IL7.D	SIM-LVI-fast	IL7,32,,1 Lot#10229	WG1861379,,ical	12/7/2023 2:03 pm
6	IL6.D	SIM-LVI-fast	IL6,32,,0.25 Lot#10230	WG1861379,,ical	12/7/2023 2:20 pm
7	IL5.D	SIM-LVI-fast	IL5,32,,0.1 Lot#10231	WG1861379,,ical	12/7/2023 2:36 pm
8	IL4.D	SIM-LVI-fast	IL4,32,,0.05 Lot#10232	WG1861379,,ical	12/7/2023 2:53 pm
9	IL3.D	SIM-LVI-fast	IL3,32,,0.025 Lot#10233	WG1861379,,ical	12/7/2023 3:09 pm
10	IL2.D	SIM-LVI-fast	IL2,32,,0.01 Lot#10234	WG1861379,,ical	12/7/2023 3:26 pm
11	IL1.D	SIM-LVI-fast	IL1,32,, 0.005 Lot#1023	WG1861379,,ical	12/7/2023 3:42 pm
12	ICV.D	SIM-LVI-fast	CQICV,32,,1.0 Lot#10193	WG1861379,,ical	12/7/2023 3:59 pm
13	insblk.D	SIM-LVI-fast			12/7/2023 4:15 pm

	Type	Method File	Vial	Name	Data File	Comment
	Sample	DFTPPRUN.M	48	wg-1,32,,dftppsv119 lot# 10761	deg0604	wg,,ical20642
	Sample	SIM-LVI-fast.M	49	wg-3,32,, ICV 10475 (0603)	ccv0604	wg,,ical20642
	Sample	SIM-LVI-fast.M	50	instrument blank	blank0604	wg,,ical20642
	Keyword					
	Sample	SIM-LVI-fast.M	1	WG1928853-1,32,,ah	928853-1	WG1929299,WG1928853,ical20642
	Sample	SIM-LVI-fast.M	2	WG1928853-2,32,,ah	928853-2	WG1929299,WG1928853,ical20642
	Sample	SIM-LVI-fast.M	3	WG1928853-3,32,,ah	928853-3	WG1929299,WG1928853,ical20642
	Sample	SIM-LVI-fast.M	4	L2429922-01,32,,ah	29922-01	WG1929299,WG1928853,ical20642
	Sample	SIM-LVI-fast.M	5	L2429922-02,32,,ah	29922-02	WG1929299,WG1928853,ical20642
	Sample	SIM-LVI-fast.M	6	L2429922-03,32,,ah	29922-03	WG1929299,WG1928853,ical20642
	Sample	SIM-LVI-fast.M	7	L2429922-04,32,,ah	29922-04	WG1929299,WG1928853,ical20642
	Sample	SIM-LVI-fast.M	8	L2429922-05,32,,ah	29922-05	WG1929299,WG1928853,ical20642
	Sample	SIM-LVI-fast.M	9	WG1929068-2,32,,ah	929068-2	WG1929299,WG1929068,ical20642
	Sample	SIM-LVI-fast.M	10	WG1929068-3,32,,ah	929068-3	WG1929299,WG1929068,ical20642
	Sample	SIM-LVI-fast.M	11	WG1929068-1,32,,ah	929068-1	WG1929299,WG1929068,ical20642
	Sample	SIM-LVI-fast.M	12	L2429887-01,32,,ah	29887-01	WG1929299,WG1929068,ical20642
	Sample	SIM-LVI-fast.M	13	L2430117-03,32,,ah	30117-03	WG1929299,WG1929068,ical20642
	Sample	SIM-LVI-fast.M	14	WG1929068-4,32,,ah	929068-4	WG1929299,WG1929068,ical20642
	Sample	SIM-LVI-fast.M	15	WG1929068-5,32,,ah	929068-5	WG1929299,WG1929068,ical20642
	Sample	SIM-LVI-fast.M	16	L2430219-04,32,,ah	30219-04	WG1929299,WG1929068,ical20642
	Sample	SIM-LVI-fast.M	17	WG1929068-6,32,,ah	929068-6	WG1929299,WG1929068,ical20642
	Sample	SIM-LVI-fast.M	18	WG1929068-7,32,,ah	929068-7	WG1929299,WG1929068,ical20642
	Sample	SIM-LVI-fast.M	19	L2429887-02,32,,ah	29887-02	WG1929299,WG1929068,ical20642
	Sample	SIM-LVI-fast.M	20	L2429887-03,32,,ah	29887-03	WG1929299,WG1929068,ical20642
	Sample	SIM-LVI-fast.M	21	L2429887-04,32,,ah	29887-04	WG1929299,WG1929068,ical20642
	Sample	SIM-LVI-fast.M	22	L2429887-05,32,,ah	29887-05	WG1929299,WG1928731,ical20642
	Sample	SIM-LVI-fast.M	23	L2429887-06,32,,ah	29887-06	WG1929299,WG1928731,ical20642
	Sample	SIM-LVI-fast.M	24	L2430117-01,32,,ah	30117-01	WG1929299,WG1929068,ical20642
	Sample	SIM-LVI-fast.M	25	L2430117-02,32,,ah	30117-02	WG1929299,WG1929068,ical20642
	Sample	SIM-LVI-fast.M	26	L2430117-04,32,,ah	30117-04	WG1929299,WG1929068,ical20642
	Sample	SIM-LVI-fast.M	27	L2430117-05,32,,ah	30117-05	WG1929299,WG1929068,ical20642
	Sample	SIM-LVI-fast.M	28	L2430117-06,32,,ah	30117-06	WG1929299,WG1929068,ical20642
	Sample	SIM-LVI-fast.M	29	L2430219-01,32,,ah	30219-01	WG1929299,WG1929068,ical20642
	Sample	SIM-LVI-fast.M	30	L2430219-02,32,,ah	30219-02	WG1929299,WG1929068,ical20642
	Sample	SIM-LVI-fast.M	31	L2430219-03,32,,ah	30219-03	WG1929299,WG1929068,ical20642
	Sample	SIM-LVI-fast.M	32	L2430219-05,32,,ah	30219-05	WG1929299,WG1929068,ical20642
	Sample	SIM-LVI-fast.M	33	L2430219-06,32,,ah	30219-06	WG1929299,WG1929068,ical20642
	Sample	SIM-LVI-fast.M	34	L2430219-07,32,,ah	30219-07	WG1929299,WG1929068,ical20642
	Sample	SIM-LVI-fast.M	35	L2430219-08,32,,ah	30219-08	WG1929299,WG1929068,ical20642

	Type	Method File	Vial	Name	Data File	Comment
	Sample	SIM-LVI-fast.M	36	L2430219-09,32,,ah	30219-09	WG1929299,WG1929068,ical20642
	Sample	SIM-LVI-fast.M	37	L2430219-10,32,,ah	30219-10	WG1929299,WG1929068,ical20642
	Sample	SIM-LVI-fast.M	38	L2430217-03,32,,ah	30217-03	WG1929299,WG1928731,ical20642
	Sample	SIM-LVI-fast.M	39	L2430217-04,32,,ah	30217-04	WG1929299,WG1928731,ical20642
	Sample	SIM-LVI-fast.M	40	L2430217-05,32,,ah	30217-05	WG1929299,WG1928731,ical20642

	Type	Method File	Vial	Name	Data File	Comment
	Sample	DFTPPRUN.M	48	wg-1,32,,dftppsv119 lot# 10761	deg0606	wg,,ical20642
	Sample	SIM-LVI-fast.M	49	wg-3,32,, ICV 10475 (0603)	ccv0606	wg,,ical20642
	Sample	SIM-LVI-fast.M	50	instrument blank	blank0606	wg,,ical20642
	Keyword					
	Sample	SIM-LVI-fast.M	1	WG1930038-1,32,,ah	930038-1	WG1930543,WG1930038,ical20642
	Sample	SIM-LVI-fast.M	2	WG1930038-2,32,,ah	930038-2	WG1930543,WG1930038,ical20642
	Sample	SIM-LVI-fast.M	3	WG1930038-3,32,,ah	930038-3	WG1930543,WG1930038,ical20642
	Sample	SIM-LVI-fast.M	4	L2430094-01,32,,ah	30094-01	WG1930543,WG1930038,ical20642
	Sample	SIM-LVI-fast.M	5	WG1930511-2,32,,jjw	930511-2	WG1930543,WG1930511,ical20642
	Sample	SIM-LVI-fast.M	6	WG1930511-3,32,,jjw	930511-3	WG1930543,WG1930511,ical20642
	Sample	SIM-LVI-fast.M	7	WG1930511-1,32,,jjw	930511-1	WG1930543,WG1930511,ical20642
	Sample	SIM-LVI-fast.M	8	L2430269-01,32,,jjw	30269-01	WG1930543,WG1930511,ical20642
	Sample	SIM-LVI-fast.M	9	L2430269-02,32,,jjw	30269-02	WG1930543,WG1930511,ical20642
	Sample	SIM-LVI-fast.M	10	L2430269-03,32,,jjw	30269-03	WG1930543,WG1930511,ical20642
	Sample	SIM-LVI-fast.M	11	L2430269-04,32,,jjw	30269-04	WG1930543,WG1930511,ical20642
	Sample	SIM-LVI-fast.M	12	L2430269-05,32,,jjw	30269-05	WG1930543,WG1930511,ical20642
	Sample	SIM-LVI-fast.M	13	L2430219-10,32,,RV(con),jjw	30219-10	WG1930543,WG1929068,ical20642

ORGANIC ELN REPORT

Workgroup: WG1929068

Prep Method: EPA 3510C
Solvent Type: DCM
Surrogate Type: ABN
Spike Type: ABN-SIM
Spike Verify by: LJO
Lims Spikelot: 8270-LVI

Lot #: EI405
Lot #: 10743AH,11/06/2024,4C,25,7
Lot #: 10685AJ,10/11/2024 ;; 10727AE

Additional Reagents/Stds

H2SO4	A052024
Na2SO4	23L0461008
NaOH	10NNaOH051124

Conc.Method: Buchi
Solvent Type: DCM
Lot #: EI405

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type:
Lot #:

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2429887-01 SAMP	06/03/24 16:33	Luke O'Donnell	275	<2, >12	1		06/03/24 23:25	Alaina Ohara-Cruz	1	L
L2429887-02 SAMP	06/03/24 19:35	Luke O'Donnell	275	<2, >12	1		06/04/24 00:41	Alaina Ohara-Cruz	1	H
L2429887-03 SAMP	06/03/24 19:35	Luke O'Donnell	275	<2, >12	1		06/04/24 00:41	Alaina Ohara-Cruz	1	H
L2429887-04 SAMP	06/03/24 19:35	Luke O'Donnell	275	<2, >12	1		06/04/24 00:41	Alaina Ohara-Cruz	1	H
L2430117-01 SAMP	06/03/24 19:35	Luke O'Donnell	275	<2, >12	1		06/04/24 00:41	Alaina Ohara-Cruz	1	H

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ORGANIC ELN REPORT

Workgroup: WG1929068

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2430117-02 SAMP	06/03/24 19:35	Luke O'Donnell	275	<2, >12	1		06/04/24 00:41	Alaina Ohara-Cruz	1	H
L2430117-03 SAMP	06/03/24 16:33	Luke O'Donnell	275	<2, >12	1		06/03/24 23:25	Alaina Ohara-Cruz	1	L
L2430117-04 SAMP	06/03/24 19:35	Luke O'Donnell	275	<2, >12	1		06/04/24 00:41	Alaina Ohara-Cruz	1	H
L2430117-05 SAMP	06/03/24 19:35	Luke O'Donnell	275	<2, >12	1		06/04/24 00:41	Alaina Ohara-Cruz	1	H
L2430117-06 SAMP	06/03/24 19:35	Luke O'Donnell	275	<2, >12	1		06/04/24 00:41	Alaina Ohara-Cruz	1	H
L2430219-01 SAMP	06/03/24 19:35	Luke O'Donnell	275	<2, >12	1		06/04/24 00:41	Alaina Ohara-Cruz	1	H
L2430219-02 SAMP	06/03/24 19:35	Luke O'Donnell	275	<2, >12	1		06/04/24 00:41	Alaina Ohara-Cruz	1	H
L2430219-03 SAMP	06/03/24 21:58	Luke O'Donnell	275	<2, >12	1		06/04/24 02:10	Alaina Ohara-Cruz	1	H

Reported: 18-JUN-24 04:51 PM

ORGANIC ELN REPORT

Workgroup: WG1929068

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2430219-04 SAMP	06/03/24 16:33	Luke O'Donnell	275	<2, >12	1		06/03/24 23:25	Alaina Ohara-Cruz	1	L
L2430219-05 SAMP	06/03/24 21:58	Luke O'Donnell	275	<2, >12	1		06/04/24 02:10	Alaina Ohara-Cruz	1	H
L2430219-06 SAMP	06/03/24 21:58	Luke O'Donnell	275	<2, >12	1		06/04/24 02:10	Alaina Ohara-Cruz	1	H
L2430219-07 SAMP	06/03/24 21:58	Luke O'Donnell	275	<2, >12	1		06/04/24 02:10	Alaina Ohara-Cruz	1	H
L2430219-08 SAMP	06/03/24 21:58	Luke O'Donnell	275	<2, >12	1		06/04/24 02:10	Alaina Ohara-Cruz	1	H
L2430219-09 SAMP	06/03/24 21:58	Luke O'Donnell	275	<2, >12	1		06/04/24 02:10	Alaina Ohara-Cruz	1	H
L2430219-10 SAMP	06/03/24 21:58	Luke O'Donnell	275	<2, >12	1		06/04/24 02:10	Alaina Ohara-Cruz	1	H
WG1929068-1 BLANK	06/03/24 16:33	Luke O'Donnell	275	<2, >12	1		06/03/24 23:25	Alaina Ohara-Cruz	1	L
	COMBOM WITH WG1929069									

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ORGANIC ELN REPORT

Workgroup: WG1929068

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1929068-2 LCS	06/03/24 16:33	Luke O'Donnell	275	<2, >12	1	1	06/03/24 23:25	Alaina Ohara-Cruz	1	L
WG1929068-3 LCSD	06/03/24 16:33	Luke O'Donnell	275	<2, >12	1	1	06/03/24 23:25	Alaina Ohara-Cruz	1	L
WG1929068-4 MS	06/03/24 16:33	Luke O'Donnell	275	<2, >12	1	1	06/03/24 23:25	Alaina Ohara-Cruz	1	L
WG1929068-5 MSD	06/03/24 16:33	Luke O'Donnell	275	<2, >12	1	1	06/03/24 23:25	Alaina Ohara-Cruz	1	L
WG1929068-6 MS	06/03/24 16:33	Luke O'Donnell	275	<2, >12	1	1	06/03/24 23:25	Alaina Ohara-Cruz	1	L
WG1929068-7 MSD	06/03/24 16:33	Luke O'Donnell	275	<2, >12	1	1	06/03/24 23:25	Alaina Ohara-Cruz	1	L

Reported: 18-JUN-24 04:51 PM

GC Extractable Analysis Polychlorinated Biphenyls (PCB)

Aroclor QC Summary

Surrogate Recovery Summary
Form 2
PCBs

Client: Alpha Geoscience
Project Name: HUNTINGTON READY MIXED

Lab Number: L2430219
Project Number: 20116
Matrix: Water

GC Column 1: CLP-Pesticide
GC Column 2: CLP-PesticideII

CLIENT ID (LAB SAMPLE NO.)	TCX 1 %REC	TCX 2 %REC	DCB 1 %REC	DCB 2 %REC	OTHER (1)	OTHER (2)	TOT OUT
MW-1S (L2430219-01)	95	88	103	116			0
MW-2S (L2430219-02)	92	87	95	123			0
MW-3S (L2430219-03)	83	82	94	116			0
MW-4D (L2430219-04)	89	87	100	124			0
MW-5S (L2430219-05)	83	82	93	129			0
MW-6D (L2430219-06)	71	72	82	111			0
MW-7S (L2430219-07)	82	83	96	125			0
MW-8S (L2430219-08)	81	79	96	121			0
DUP (L2430219-09)	86	86	100	125			0
FB (L2430219-10)	89	89	73	97			0
WG1930604-1BLANK	63	66	81	105			0
WG1930604-2LCS	60	63	81	110			0
WG1930604-3LCSD	67	69	90	117			0
MW-4DMS	96	90	107	136			0
MW-4DMSD	91	89	112	125			0

QC LIMITS
(30-150) TCX = 2,4,5,6-TETRACHLORO-M-XYLENE
(30-150) DCBP = DECACHLOROBIPHENYL

*** Values outside of QC limits**

Laboratory Control Sample Summary
Form 3
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1930604-2 **Analysis Date** : 06/07/24 02:15	**File ID**	: P2240606a-47
LCSD Sample ID	: WG1930604-3 **Analysis Date** : 06/07/24 02:23	**File ID**	: P2240606a-48

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Aroclor 1016	1.78	1.21	68	1.78	1.34	75	10	40-140	50
Aroclor 1260	1.78	1.15	64	1.78	1.28	72	11	40-140	50

Matrix Spike Sample Summary
Form 3
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2430219-04	**Analysis Date**	: 06/07/24 09:00
Matrix Spike	: WG1930604-6	**MS Analysis Date**	: 06/07/24 09:09
Matrix Spike Dup	: WG1930604-7	**MSD Analysis Date**	: 06/07/24 09:17

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Aroclor 1260	0.157	1.78	2.25	118	1.78	2.08	108	8	40-140	50

Matrix Spike Sample Summary
Form 3
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2430219-04	**Analysis Date**	: 06/07/24 09:00
Matrix Spike	: WG1930604-6	**MS Analysis Date**	: 06/07/24 09:09
Matrix Spike Dup	: WG1930604-7	**MSD Analysis Date**	: 06/07/24 09:17

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Aroclor 1016	ND	1.78	1.62	91	1.78	1.65	92	2	40-140	50

Method Blank Summary
Form 4
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab Sample ID	: WG1930604-1	**Lab File ID**	: P2240606a-46
Matrix	: WATER	**Extraction Date**	: 06/06/24
Sulfur Cleanup	: Y		
Analysis Date (1)	: 06/07/24 02:06	**Analysis Date (2)**	: 06/07/24 02:06
Instrument ID (1)	: PEST2	**Instrument ID (2)**	: PEST2

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1930604-2LCS	WG1930604-2	06/07/24 02:15	06/07/24 02:15
WG1930604-3LCSD	WG1930604-3	06/07/24 02:23	06/07/24 02:23
MW-1S	L2430219-01	06/07/24 08:34	06/07/24 08:34
MW-2S	L2430219-02	06/07/24 08:43	06/07/24 08:43
MW-3S	L2430219-03	06/07/24 08:51	06/07/24 08:51
MW-4D	L2430219-04	06/07/24 09:00	06/07/24 09:00
MW-4DMS	WG1930604-6	06/07/24 09:09	06/07/24 09:09
MW-4DMSD	WG1930604-7	06/07/24 09:17	06/07/24 09:17
MW-5S	L2430219-05	06/07/24 09:26	06/07/24 09:26
MW-6D	L2430219-06	06/07/24 09:35	06/07/24 09:35
MW-7S	L2430219-07	06/07/24 09:43	06/07/24 09:43
MW-8S	L2430219-08	06/07/24 09:52	06/07/24 09:52
DUP	L2430219-09	06/07/24 10:01	06/07/24 10:01
FB	L2430219-10	06/07/24 10:10	06/07/24 10:10

Analytical Sequence
Form 8b
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: PEST2	**Initial Calib. Date(s)**	: 05/06/24 05/07/24

Client ID	Lab ID	Date/Time Analyzed
1242/1268 L4 (250ug/L)	R1826224-1	05/06/24 20:49
1232/1262 L4 (250ug/L)	R1826224-2	05/06/24 20:59
1248 L4 (250ug/L)	R1826224-3	05/06/24 21:08
1221/1254 L4 (250ug/L)	R1826224-4	05/06/24 21:18
1016/1260 L2 (50ug/L)	R1826224-5	05/06/24 21:36
1016/1260 L3 (100ug/L)	R1826224-6	05/06/24 21:46
1016/1260 L4 (250ug/L)	R1826224-7	05/06/24 21:55
1016/1260 L5 (500ug/L)	R1826224-8	05/06/24 22:04
1016/1260 L6 (1000ug/L)	R1826224-9	05/06/24 22:14
R1826224-10 ICV	R1826224-10	05/06/24 22:23
R1826224-11 ICV	R1826224-11	05/06/24 22:33
R1826224-12 ICV	R1826224-12	05/06/24 22:42
R1826224-13 ICV	R1826224-13	05/06/24 22:52
1016/1260 L1 (10ug/L)	R1826224-14	05/07/24 15:31
R1826224-15 ICV	R1826224-15	05/07/24 15:41
WG1930475-5 CCAL	WG1930475-5	06/06/24 23:14
WG1930604-1 BLANK	WG1930604-1	06/07/24 02:06
WG1930604-2 LCS	WG1930604-2	06/07/24 02:15
WG1930604-3 LCSD	WG1930604-3	06/07/24 02:23
WG1931015-2 CCAL	WG1931015-2	06/07/24 07:03
MW-1S	L2430219-01	06/07/24 08:34
MW-2S	L2430219-02	06/07/24 08:43
MW-3S	L2430219-03	06/07/24 08:51
MW-4D	L2430219-04	06/07/24 09:00
MW-4D MS	WG1930604-6	06/07/24 09:09
MW-4D MSD	WG1930604-7	06/07/24 09:17
MW-5S	L2430219-05	06/07/24 09:26
MW-6D	L2430219-06	06/07/24 09:35
MW-7S	L2430219-07	06/07/24 09:43
MW-8S	L2430219-08	06/07/24 09:52
DUP	L2430219-09	06/07/24 10:01
FB	L2430219-10	06/07/24 10:10

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

PCB - EPA 8082A (WATER)

Holding Time: 365 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	0.25	0.0156	ug/l	40-140	50	40-140	50	50			
Aroclor 1221	11104-28-2	0.25	0.0221	ug/l	40-140	50	40-140	50	50			
Aroclor 1232	11141-16-5	0.25	0.046	ug/l	40-140	50	40-140	50	50			
Aroclor 1242	53469-21-9	0.25	0.0362	ug/l	40-140	50	40-140	50	50			
Aroclor 1248	12672-29-6	0.25	0.0455	ug/l	40-140	50	40-140	50	50			
Aroclor 1254	11097-69-1	0.25	0.0168	ug/l	40-140	50	40-140	50	50			
Aroclor 1260	11096-82-5	0.25	0.0344	ug/l	40-140	50	40-140	50	50			
Aroclor 1262	37324-23-5	0.25	0.033	ug/l	40-140	30	40-140	50	50			
Aroclor 1268	11100-14-4	0.25	0.0317	ug/l	40-140	30	40-140	50	50			
PCBs, Total	1336-36-3	0.25	0.0156	ug/l				50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

PCB - EPA 8082A (SOIL)

Holding Time: 365 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	50	4.44	ug/kg	40-140	50	40-140	50	50			
Aroclor 1221	11104-28-2	50	5.01	ug/kg	40-140	50	40-140	50	50			
Aroclor 1232	11141-16-5	50	10.6	ug/kg	40-140	50	40-140	50	50			
Aroclor 1242	53469-21-9	50	6.74	ug/kg	40-140	50	40-140	50	50			
Aroclor 1248	12672-29-6	50	7.5	ug/kg	40-140	50	40-140	50	50			
Aroclor 1254	11097-69-1	50	5.47	ug/kg	40-140	50	40-140	50	50			
Aroclor 1260	11096-82-5	50	9.24	ug/kg	40-140	50	40-140	50	50			
Aroclor 1262	37324-23-5	50	6.35	ug/kg	40-140	30	40-140	50	50			
Aroclor 1268	11100-14-4	50	5.18	ug/kg	40-140	30	40-140	50	50			
PCBs, Total	1336-36-3	50	4.44	ug/kg				50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Aroclor Sample Data

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 08:34
Sample Matrix	: WATER	**Date Extracted**	: 06/06/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240607a-07	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 08:34
Sample Matrix	: WATER	**Date Extracted**	: 06/06/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240607a-07	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-PesticideII
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
11097-69-1	Aroclor 1254	0.067	0.071	0.061	J
11096-82-5	Aroclor 1260	0.140	0.071	0.061	
1336-36-3	PCBs, Total	0.207	0.071	0.061	J

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 08:43
Sample Matrix	: WATER	**Date Extracted**	: 06/06/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240607a-08	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	0.215	0.071	0.061	J

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 08:43
Sample Matrix	: WATER	**Date Extracted**	: 06/06/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240607a-08	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-PesticideII
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
11097-69-1	Aroclor 1254	0.071	0.071	0.061	J
11096-82-5	Aroclor 1260	0.144	0.071	0.061	

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 08:51
Sample Matrix	: WATER	**Date Extracted**	: 06/06/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240607a-09	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	0.194	0.071	0.061	J

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 08:51
Sample Matrix	: WATER	**Date Extracted**	: 06/06/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240607a-09	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-PesticideII
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
11097-69-1	Aroclor 1254	0.064	0.071	0.061	J
11096-82-5	Aroclor 1260	0.130	0.071	0.061	

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 09:00
Sample Matrix	: WATER	**Date Extracted**	: 06/06/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240607a-10	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 09:00
Sample Matrix	: WATER	**Date Extracted**	: 06/06/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240607a-10	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-PesticideII
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
11097-69-1	Aroclor 1254	0.076	0.071	0.061	
11096-82-5	Aroclor 1260	0.157	0.071	0.061	
1336-36-3	PCBs, Total	0.233	0.071	0.061	

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 09:26
Sample Matrix	: WATER	**Date Extracted**	: 06/06/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240607a-13	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	0.199	0.071	0.061	J

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 09:26
Sample Matrix	: WATER	**Date Extracted**	: 06/06/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240607a-13	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-PesticideII
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
11097-69-1	Aroclor 1254	0.069	0.071	0.061	J
11096-82-5	Aroclor 1260	0.130	0.071	0.061	

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 09:35
Sample Matrix	: WATER	**Date Extracted**	: 06/06/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240607a-14	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	0.105	0.071	0.061	IP
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 09:35
Sample Matrix	: WATER	**Date Extracted**	: 06/06/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240607a-14	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-PesticideII
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
11097-69-1	Aroclor 1254	0.086	0.071	0.061	
1336-36-3	PCBs, Total	0.245	0.071	0.061	

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 09:43
Sample Matrix	: WATER	**Date Extracted**	: 06/06/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240607a-15	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	0.212	0.071	0.061	J

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 09:43
Sample Matrix	: WATER	**Date Extracted**	: 06/06/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240607a-15	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-PesticideII
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
11097-69-1	Aroclor 1254	0.069	0.071	0.061	J
11096-82-5	Aroclor 1260	0.143	0.071	0.061	

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 09:52
Sample Matrix	: WATER	**Date Extracted**	: 06/06/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240607a-16	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 09:52
Sample Matrix	: WATER	**Date Extracted**	: 06/06/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240607a-16	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-PesticideII
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
11097-69-1	Aroclor 1254	0.069	0.071	0.061	J
11096-82-5	Aroclor 1260	0.134	0.071	0.061	
1336-36-3	PCBs, Total	0.203	0.071	0.061	J

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 10:01
Sample Matrix	: WATER	**Date Extracted**	: 06/06/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240607a-17	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 10:01
Sample Matrix	: WATER	**Date Extracted**	: 06/06/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240607a-17	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-PesticideII
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
11097-69-1	Aroclor 1254	0.078	0.071	0.061	
11096-82-5	Aroclor 1260	0.160	0.071	0.061	
1336-36-3	PCBs, Total	0.238	0.071	0.061	

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-10	**Date Collected**	: 05/30/24 14:25
Client ID	: FB	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 10:10
Sample Matrix	: WATER	**Date Extracted**	: 06/06/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240607a-18	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	0.111	0.071	0.061	IP
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-10	**Date Collected**	: 05/30/24 14:25
Client ID	: FB	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 10:10
Sample Matrix	: WATER	**Date Extracted**	: 06/06/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240607a-18	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-PesticideII
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
11097-69-1	Aroclor 1254	0.080	0.071	0.061	
1336-36-3	PCBs, Total	0.251	0.071	0.061	

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1930604-1	**Date Collected**	: NA
Client ID	: WG1930604-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/07/24 02:06
Sample Matrix	: WATER	**Date Extracted**	: 06/06/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240606a-46	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 8:34
Operator : pest2:mhg
Sample : L2430219-01,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 09:35:32 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.156	1.225	391.3E6	268.0E6	25.000	25.000
	Standard Area 1 : #1 = 477774528				Recovery =		81.89%
	Standard Area 1 : #2 = 323810098				Recovery =		82.75%
14) i	2154_1br2nb	1.156	1.225	391.3E6	268.0E6	25.000	25.000
23) i	4268_1br2nb	1.156	1.225	391.3E6	268.0E6	25.000	25.000
34) i	1248_1br2nb	1.156	1.225	391.3E6	268.0E6	25.000	25.000
40) i	3262_1br2nb	1.156	1.225	391.3E6	268.0E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.442	1.599	389.0E6	231.6E6	18.963	17.546
	Spiked Amount 20.000	Range 30 - 150			Recovery =	94.81%	87.73%
3) s	Decachlorobi	4.018	4.527	272.6E6	144.5E6	20.563	23.241M3
	Spiked Amount 20.000	Range 30 - 150			Recovery =	102.81%	116.21%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	2.681	3.052	17587393	10816081	17.409M2	18.699M2
10) l2	1260-2	2.812	3.154	29264522	14691867	19.218M2	22.196M4
11) l2	1260-3	3.128	3.546	8685991	9357162	9.181M4	18.230M3
12) l2	1260-4	3.284	3.676	28675722	19040710	14.146M4	18.455M4
13) l2	1260-5	3.432	3.878	23705313	14659950	16.685M4	20.724M3
	Sum 1260-1			107.9E6	68565771	76.638	98.305
	Average 1260-1					15.328	19.661

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 8:34
Operator : pest2:mhg
Sample : L2430219-01,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 09:35:32 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	2.301	2.639	7730972	3451450	9.836M3	6.997M4
19) l4 1254-2	2.415	2.726	11946990	5427237	8.526M4	9.648M4
20) l4 1254-3	2.598	0.000	11696634	0	7.860	N.D. d
21) l4 1254-4	2.728	3.067	9520769	5977037	9.142	11.636M4
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			40895365	14855723	35.363	28.281
Average 1254-1					8.841	9.427
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 8:34
Operator : pest2:mhg
Sample : L2430219-01,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 09:35:32 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

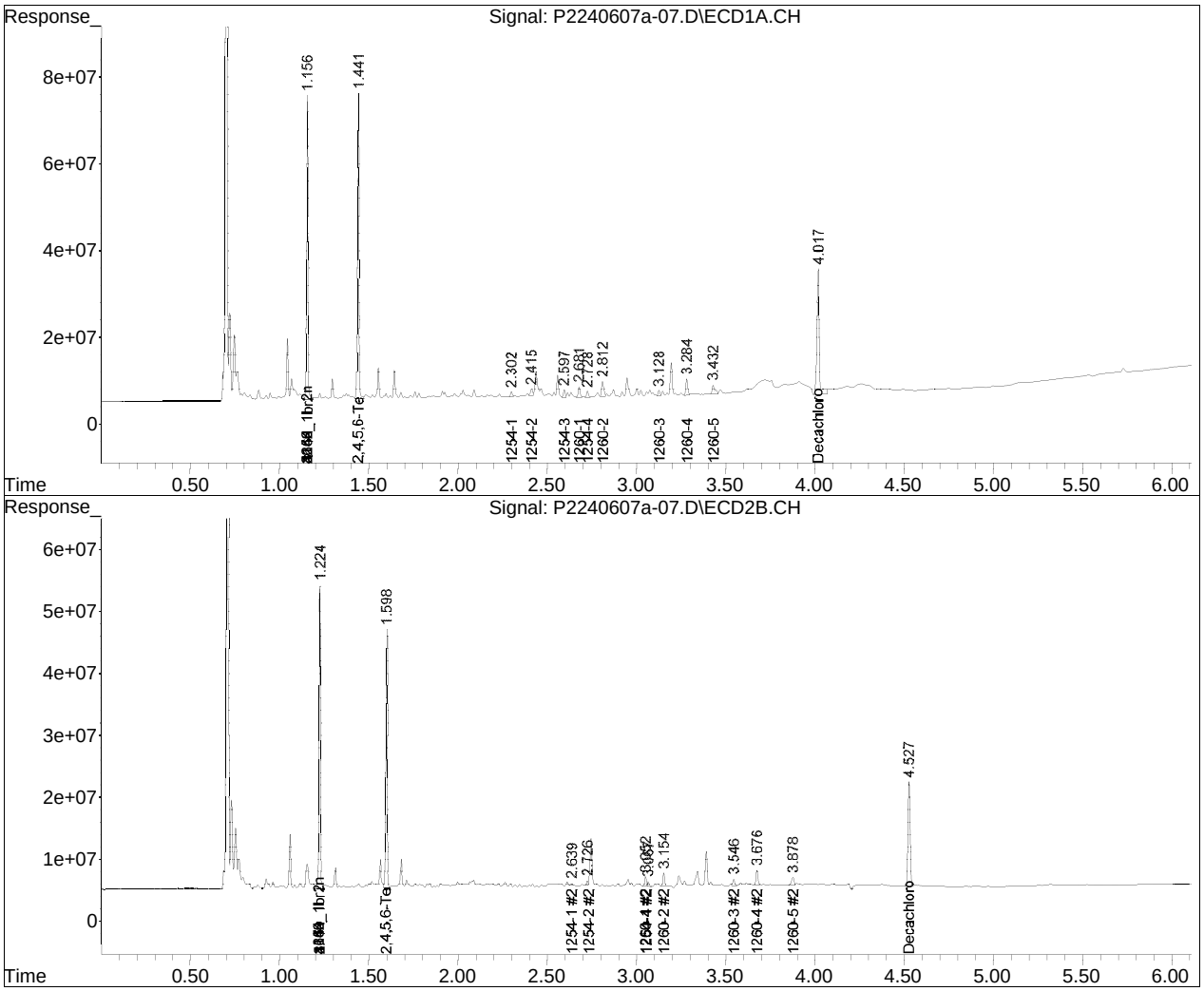
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240607a-02.D•

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 8:34
Operator : pest2:mhg
Sample : L2430219-01,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 09:35:32 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

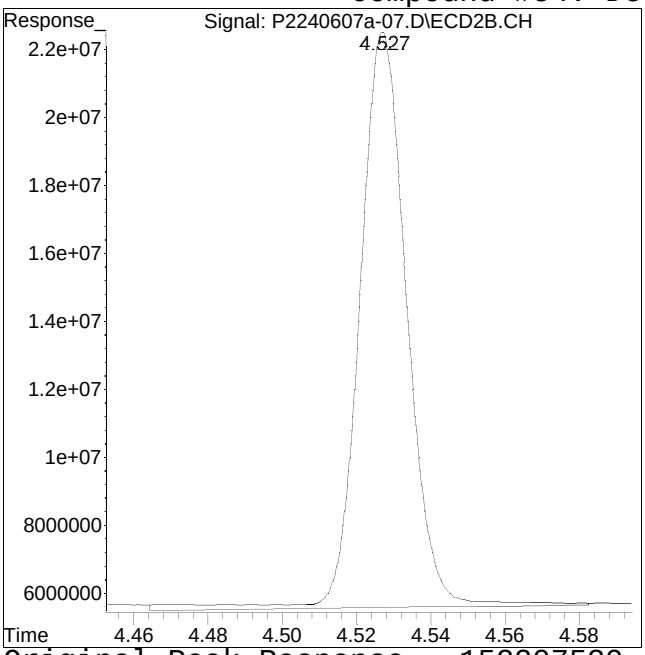
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

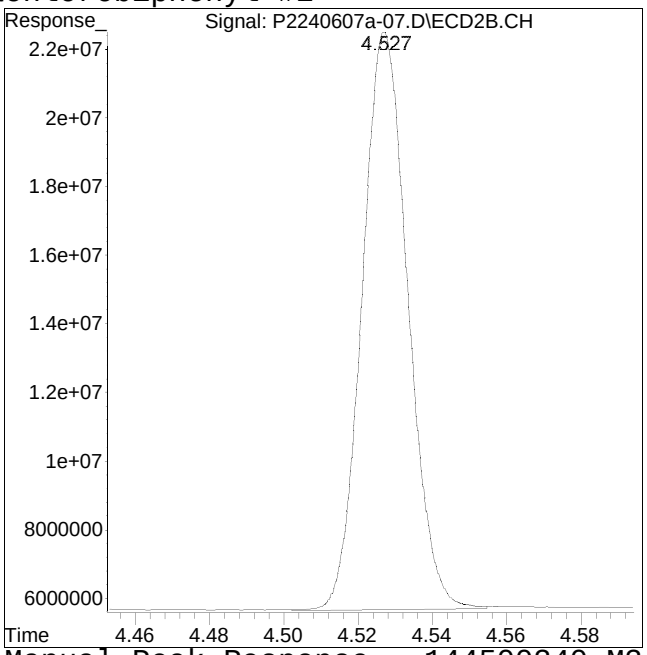


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-07.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:34 Instrument : Pest 2
Sample : L2430219-01,42,, Quant Date : 6/7/2024 9:35 am

Compound #54: Decachlorobiphenyl #2



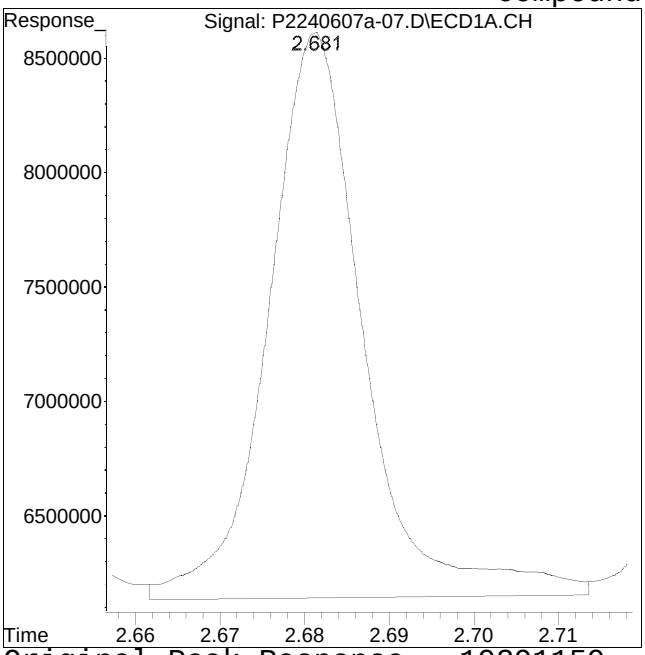


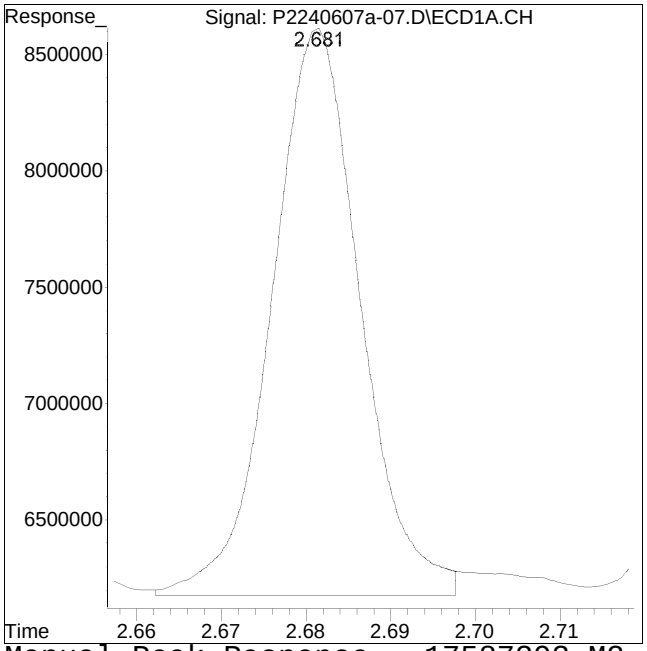
Original Peak Response = 152207539 Manual Peak Response = 144500340 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-07.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:34 Instrument : Pest 2
Sample : L2430219-01,42,, Quant Date : 6/7/2024 9:35 am

Compound #9: 1260-1



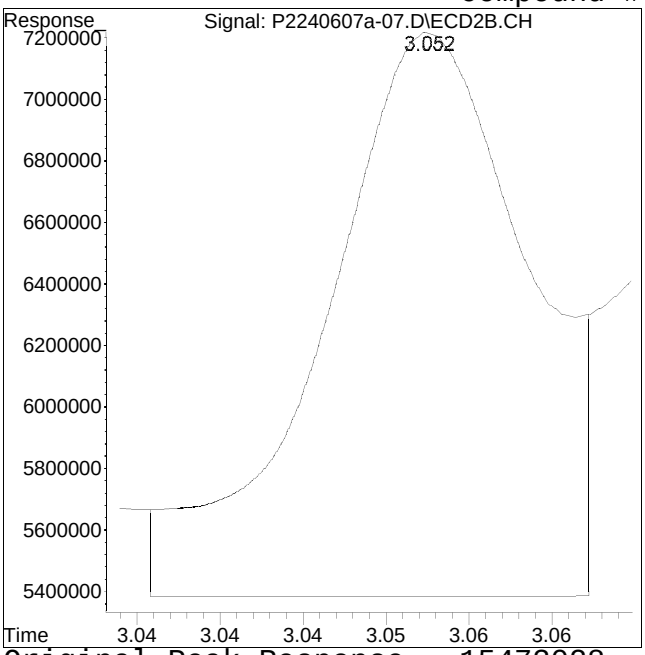


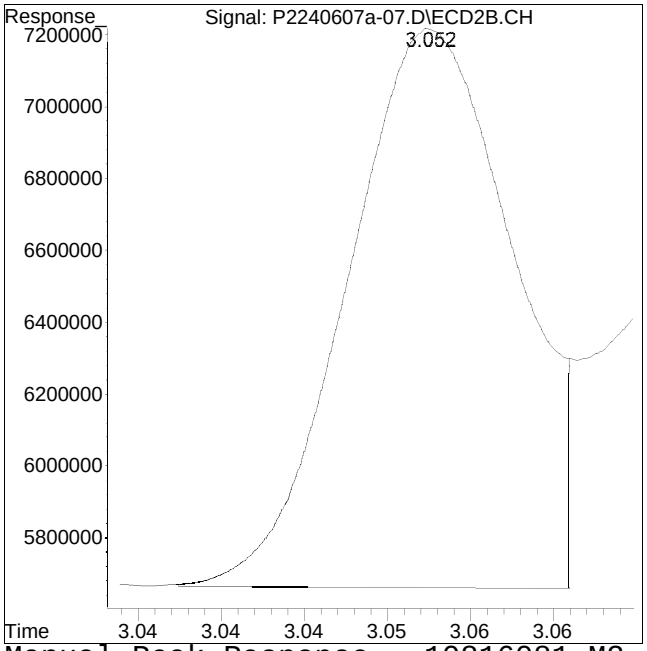
Original Peak Response = 19291159 Manual Peak Response = 17587393 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-07.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:34 Instrument : Pest 2
Sample : L2430219-01,42,, Quant Date : 6/7/2024 9:35 am

Compound #60: 1260-1 #2



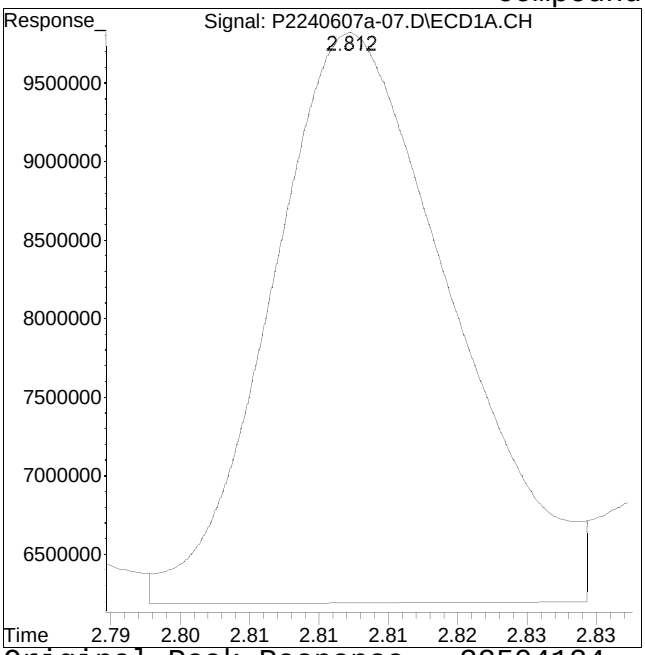


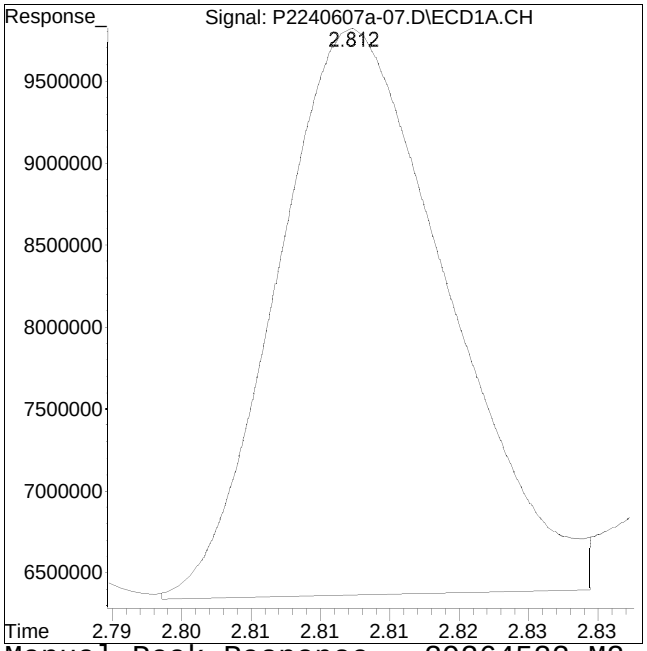
Original Peak Response = 15473028 Manual Peak Response = 10816081 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-07.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:34 Instrument : Pest 2
Sample : L2430219-01,42,, Quant Date : 6/7/2024 9:35 am

Compound #10: 1260-2



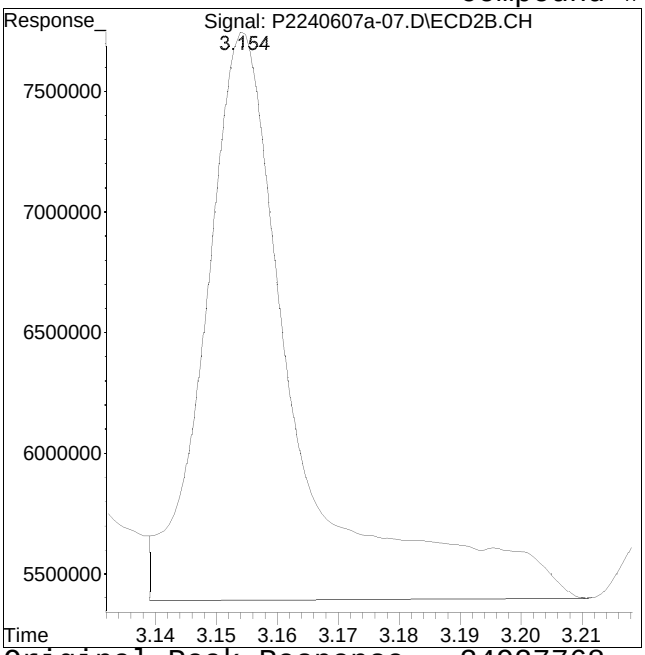


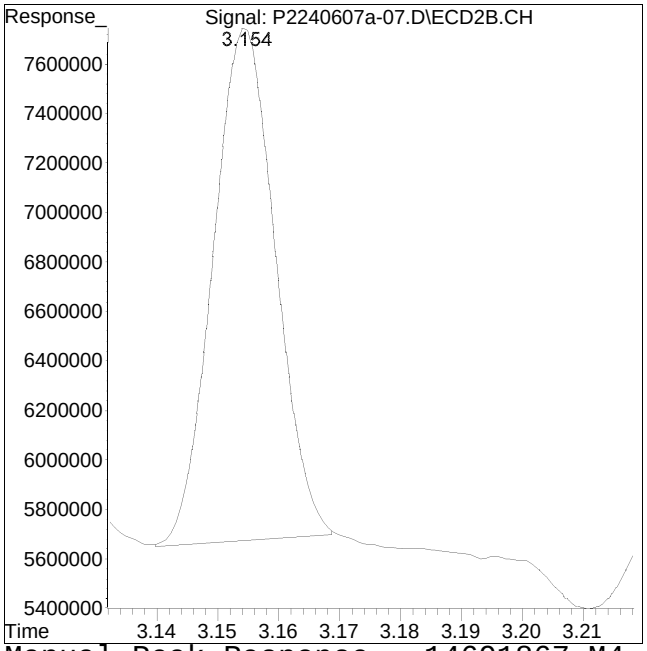
Original Peak Response = 32504124 Manual Peak Response = 29264522 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-07.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:34 Instrument : Pest 2
Sample : L2430219-01,42,, Quant Date : 6/7/2024 9:35 am

Compound #61: 1260-2 #2



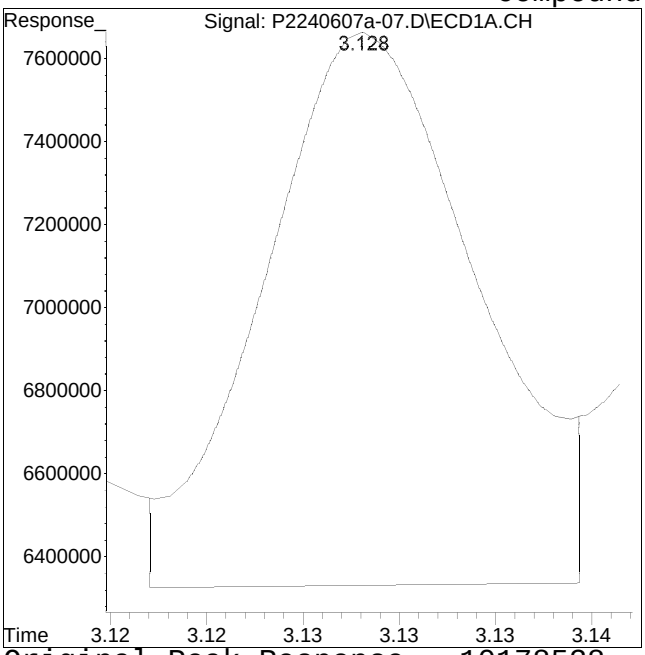


Original Peak Response = 24927768 Manual Peak Response = 14691867 M4
M4 = Poor automated baseline construction.

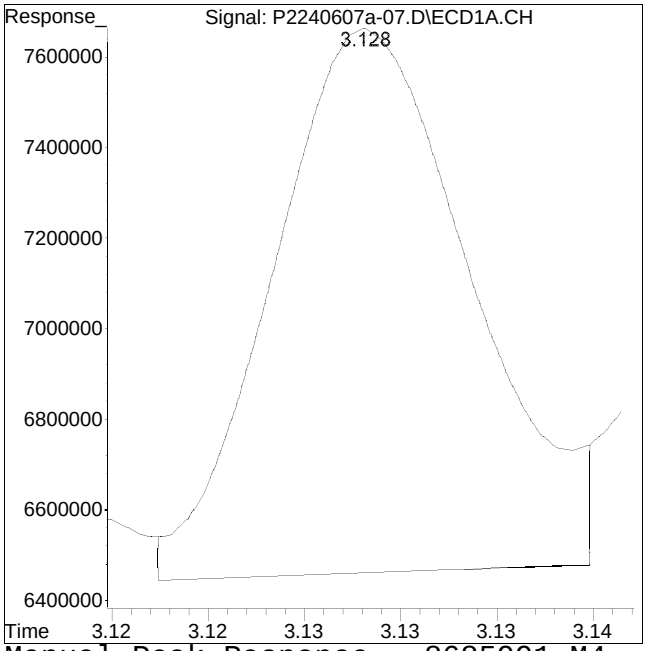
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-07.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:34 Instrument : Pest 2
Sample : L2430219-01,42,, Quant Date : 6/7/2024 9:35 am

Compound #11: 1260-3



Original Peak Response = 10178538



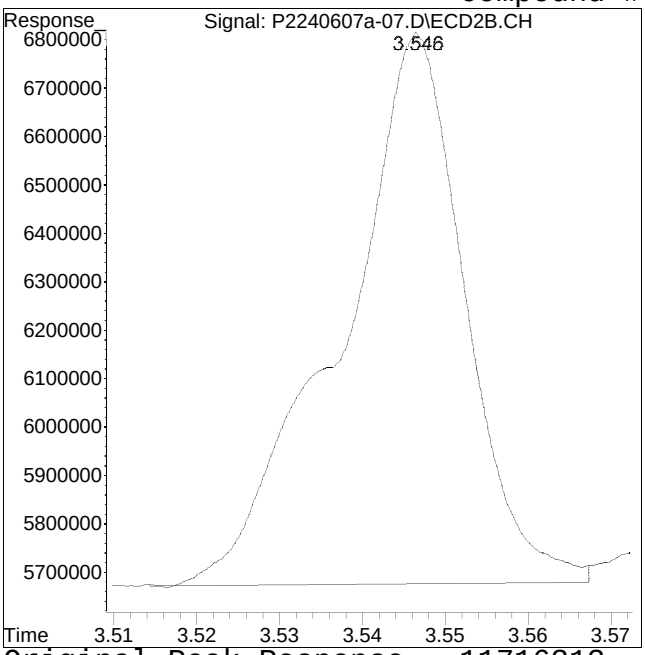
Manual Peak Response = 8685991 M4

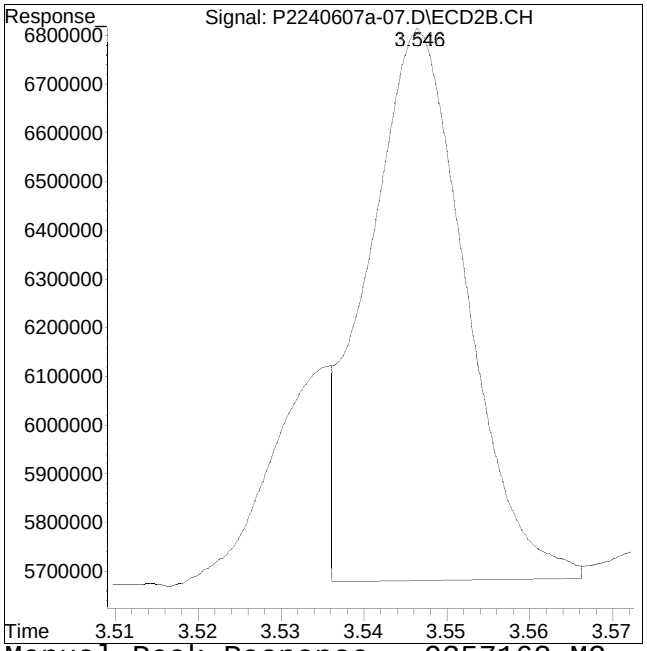
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-07.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:34 Instrument : Pest 2
Sample : L2430219-01,42,, Quant Date : 6/7/2024 9:35 am

Compound #62: 1260-3 #2



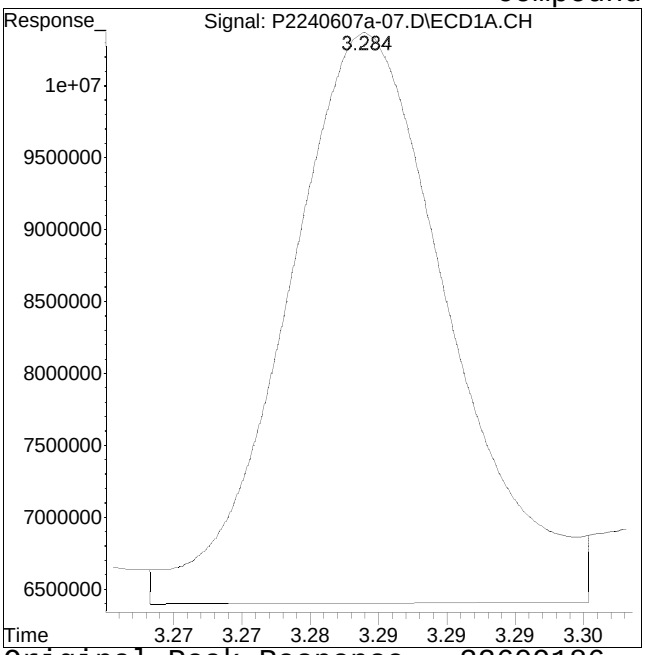


Original Peak Response = 11716313 Manual Peak Response = 9357162 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

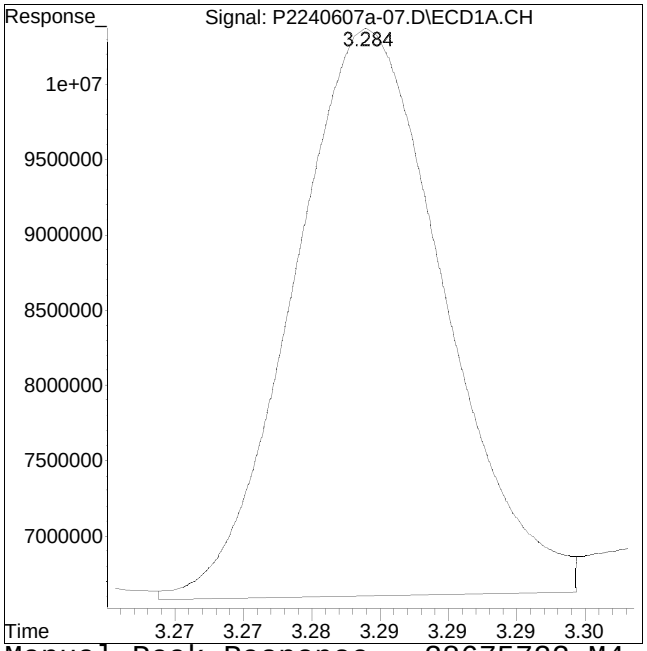
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-07.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:34 Instrument : Pest 2
Sample : L2430219-01,42,, Quant Date : 6/7/2024 9:35 am

Compound #12: 1260-4



Original Peak Response = 32609186



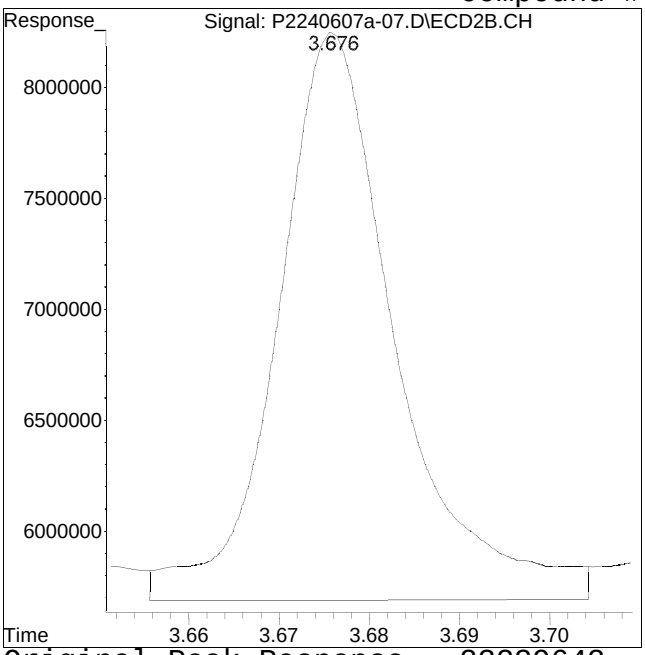
Manual Peak Response = 28675722 M4

M4 = Poor automated baseline construction.

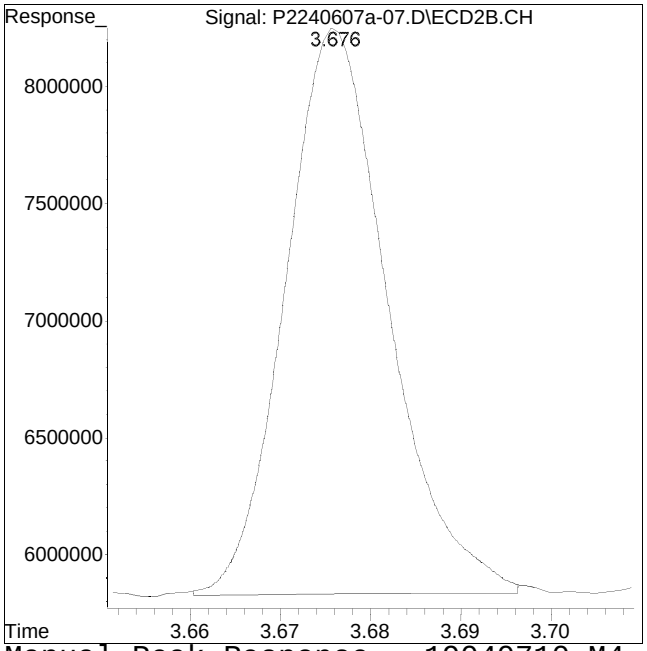
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-07.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:34 Instrument : Pest 2
Sample : L2430219-01,42,, Quant Date : 6/7/2024 9:35 am

Compound #63: 1260-4 #2



Original Peak Response = 23239642



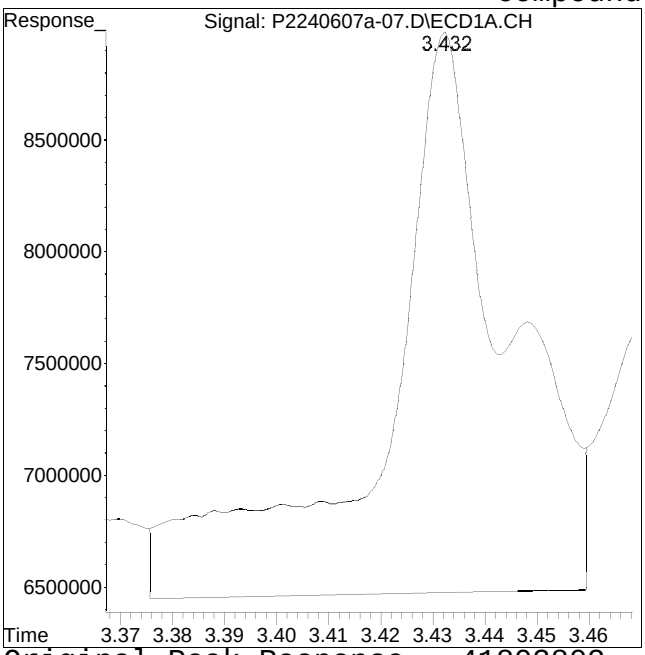
Manual Peak Response = 19040710 M4

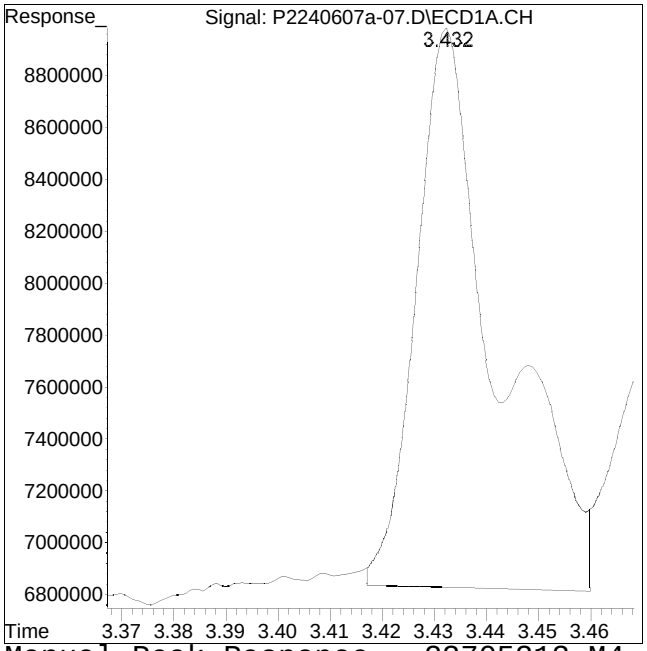
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-07.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:34 Instrument : Pest 2
Sample : L2430219-01,42,, Quant Date : 6/7/2024 9:35 am

Compound #13: 1260-5



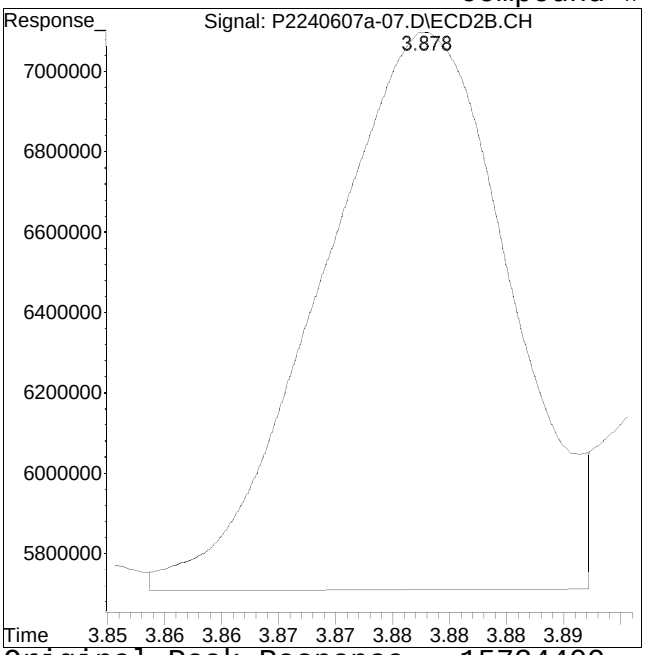


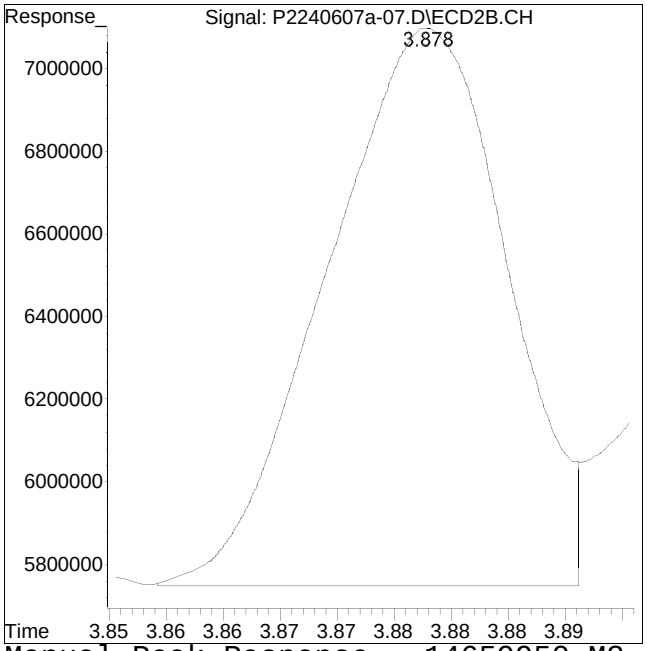
Original Peak Response = 41803802 Manual Peak Response = 23705313 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-07.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:34 Instrument : Pest 2
Sample : L2430219-01,42,, Quant Date : 6/7/2024 9:35 am

Compound #64: 1260-5 #2



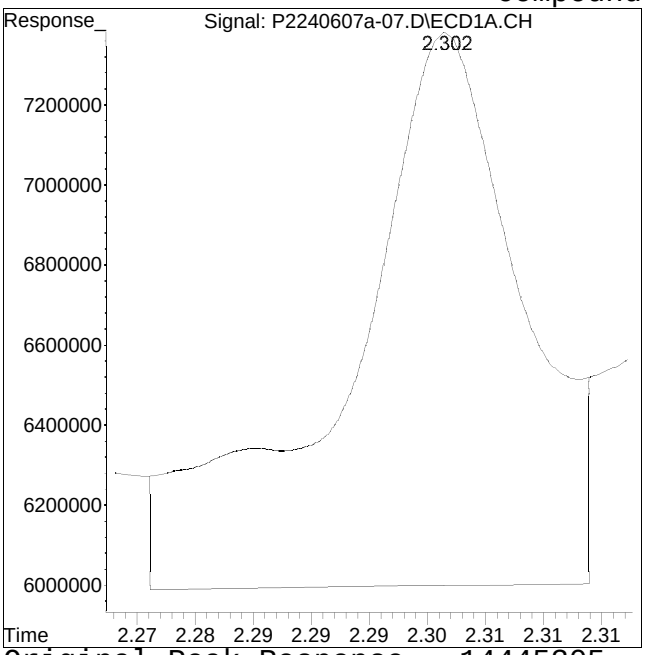


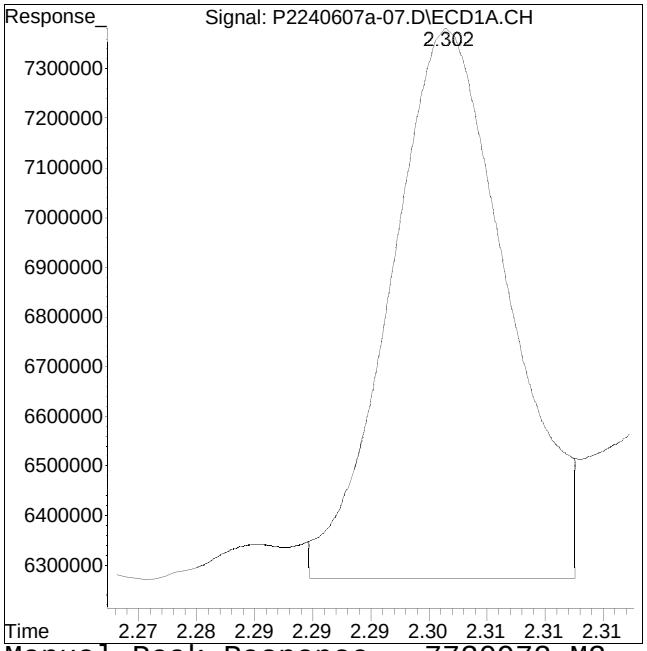
Original Peak Response = 15734400 Manual Peak Response = 14659950 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-07.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:34 Instrument : Pest 2
Sample : L2430219-01,42,, Quant Date : 6/7/2024 9:35 am

Compound #18: 1254-1



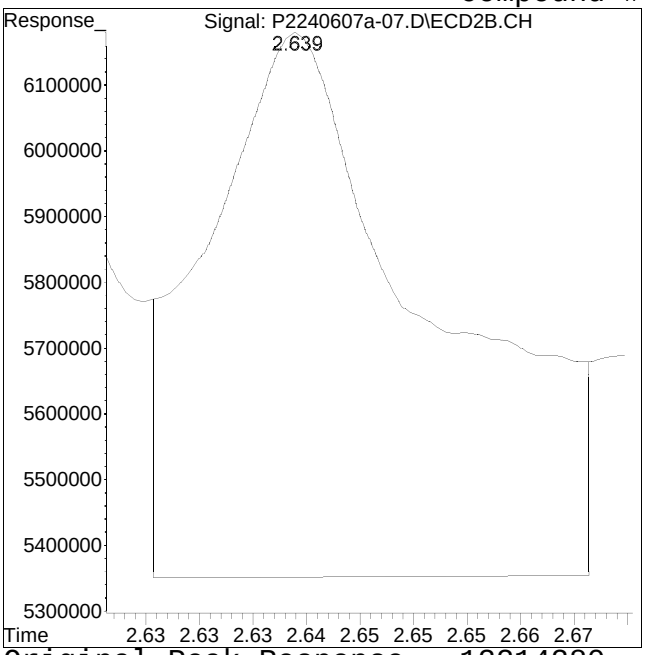


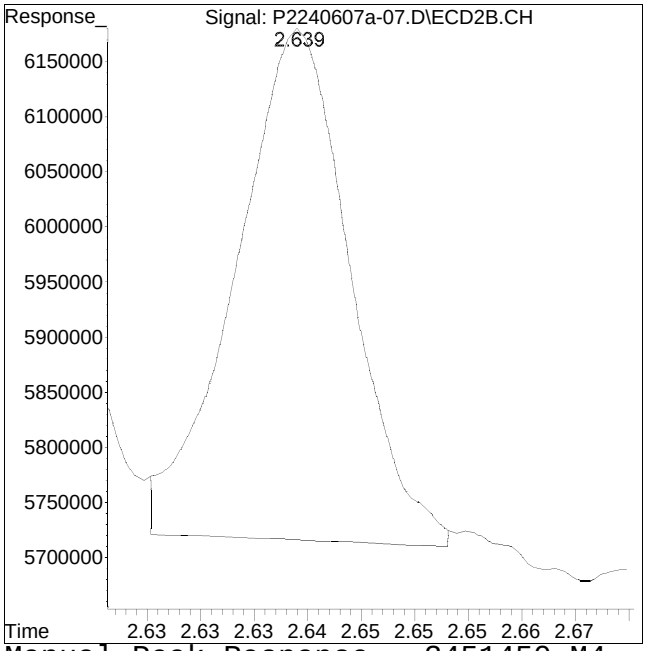
Original Peak Response = 14445305 Manual Peak Response = 7730972 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-07.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:34 Instrument : Pest 2
Sample : L2430219-01,42,, Quant Date : 6/7/2024 9:35 am

Compound #69: 1254-1 #2



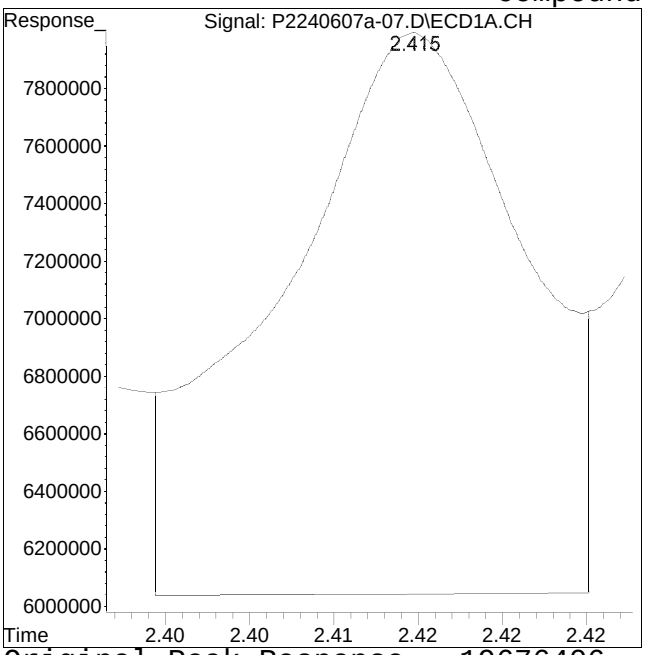


Original Peak Response = 12214280 Manual Peak Response = 3451450 M4
M4 = Poor automated baseline construction.

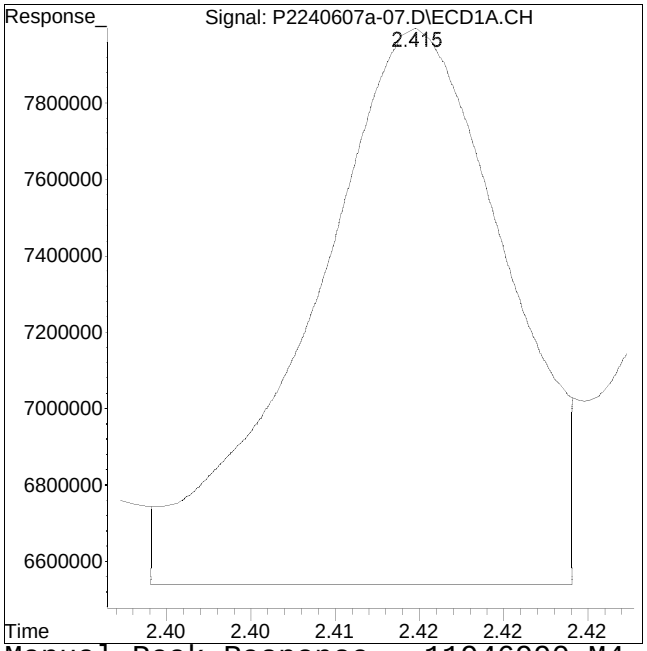
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-07.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:34 Instrument : Pest 2
Sample : L2430219-01,42,, Quant Date : 6/7/2024 9:35 am

Compound #19: 1254-2



Original Peak Response = 19676406



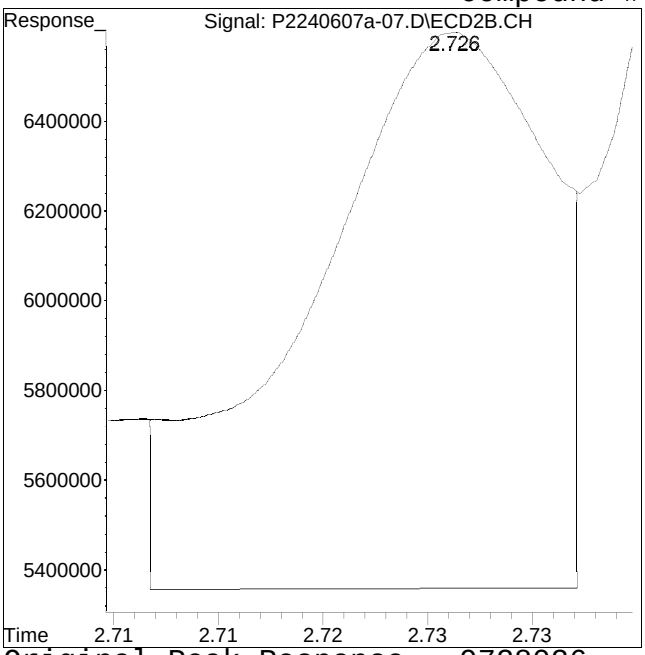
Manual Peak Response = 11946990 M4

M4 = Poor automated baseline construction.

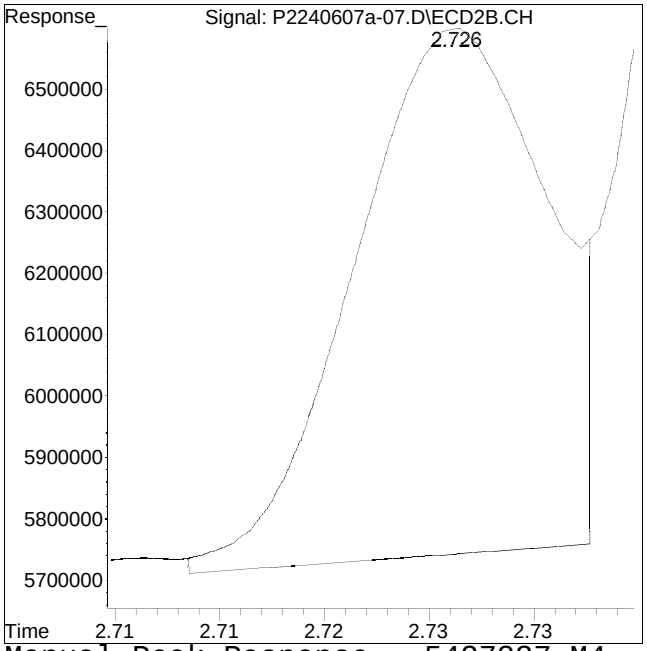
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-07.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:34 Instrument : Pest 2
Sample : L2430219-01,42,, Quant Date : 6/7/2024 9:35 am

Compound #70: 1254-2 #2



Original Peak Response = 9728026



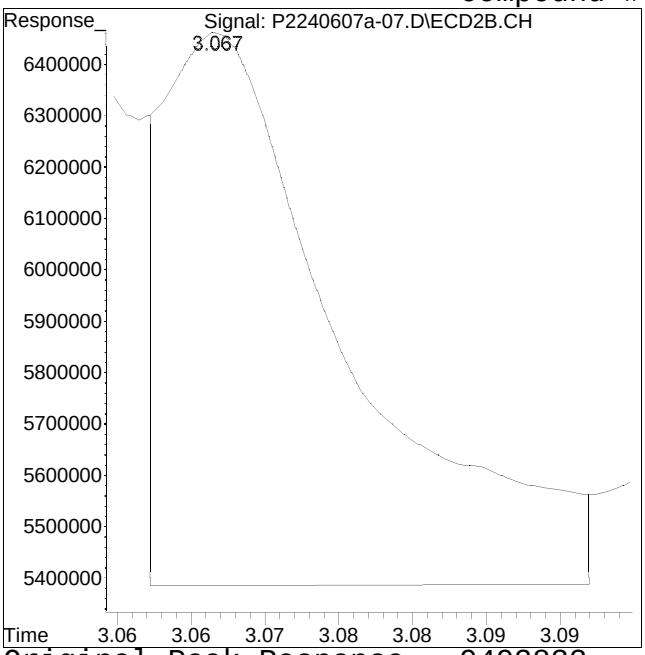
Manual Peak Response = 5427237 M4

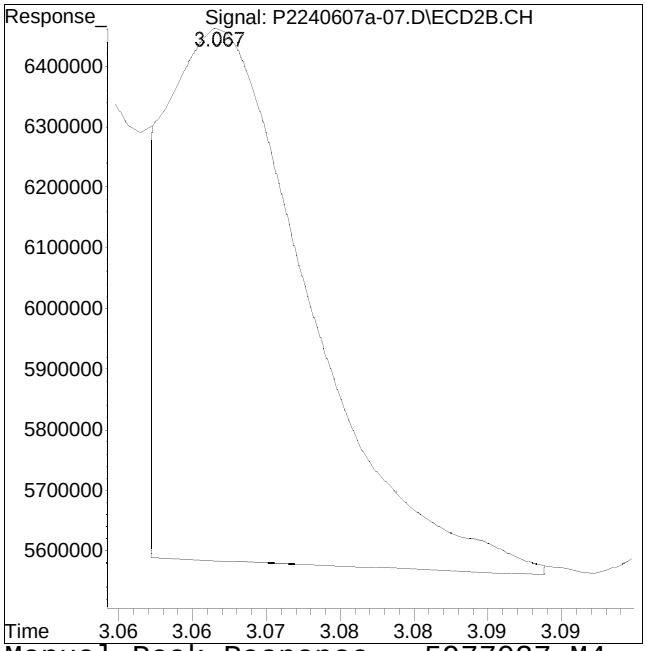
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-07.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:34 Instrument : Pest 2
Sample : L2430219-01,42,, Quant Date : 6/7/2024 9:35 am

Compound #72: 1254-4 #2





Original Peak Response = 9493833 Manual Peak Response = 5977037 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 8:43
Operator : pest2:mhg
Sample : L2430219-02,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 09:35:36 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.156	1.225	399.1E6	265.0E6	25.000	25.000
	Standard Area 1 : #1 = 477774528				Recovery =	83.53%	
	Standard Area 1 : #2 = 323810098				Recovery =	81.83%	
14) i	2154_1br2nb	1.156	1.225	399.1E6	265.0E6	25.000	25.000
23) i	4268_1br2nb	1.156	1.225	399.1E6	265.0E6	25.000	25.000
34) i	1248_1br2nb	1.156	1.225	399.1E6	265.0E6	25.000	25.000
40) i	3262_1br2nb	1.156	1.225	399.1E6	265.0E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.441	1.599	386.1E6	227.0E6	18.453	17.392
	Spiked Amount 20.000	Range 30 - 150			Recovery =	92.27%	86.96%
3) s	Decachlorobi	4.015	4.526	257.0E6	150.6E6	19.011	24.504M4
	Spiked Amount 20.000	Range 30 - 150			Recovery =	95.06%	122.52%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	2.679	3.053	16794085	10980056	16.298M2	19.197M2
10) l2	1260-2	2.810	3.154	29662898	15652273	19.097M2	23.914M2
11) l2	1260-3	3.126	3.546	8629586	8786757	8.943M4	17.312M3
12) l2	1260-4	3.281	3.676	29234827	19704225	14.139M3	19.314M4
13) l2	1260-5	3.430	3.878	23634448	14535177	16.309M3	20.780M3
	Sum 1260-1			108.0E6	69658487	74.786	100.518
Average	1260-1					14.957	20.104

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 8:43
Operator : pest2:mhg
Sample : L2430219-02,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 09:35:36 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	2.300	2.639	6986083	3368051	8.714M3	6.905M2
19) l4 1254-2	2.413	2.726	10465543	6220650	7.322M3	11.183M4
20) l4 1254-3	2.595	0.000	10503456	0	6.920M3	N.D. d
21) l4 1254-4	2.726	3.067	9631830	5849099	9.067	11.516M4
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			37586912	15437799	32.023	29.604
Average 1254-1					8.006	9.868
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 8:43
Operator : pest2:mhg
Sample : L2430219-02,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 09:35:36 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

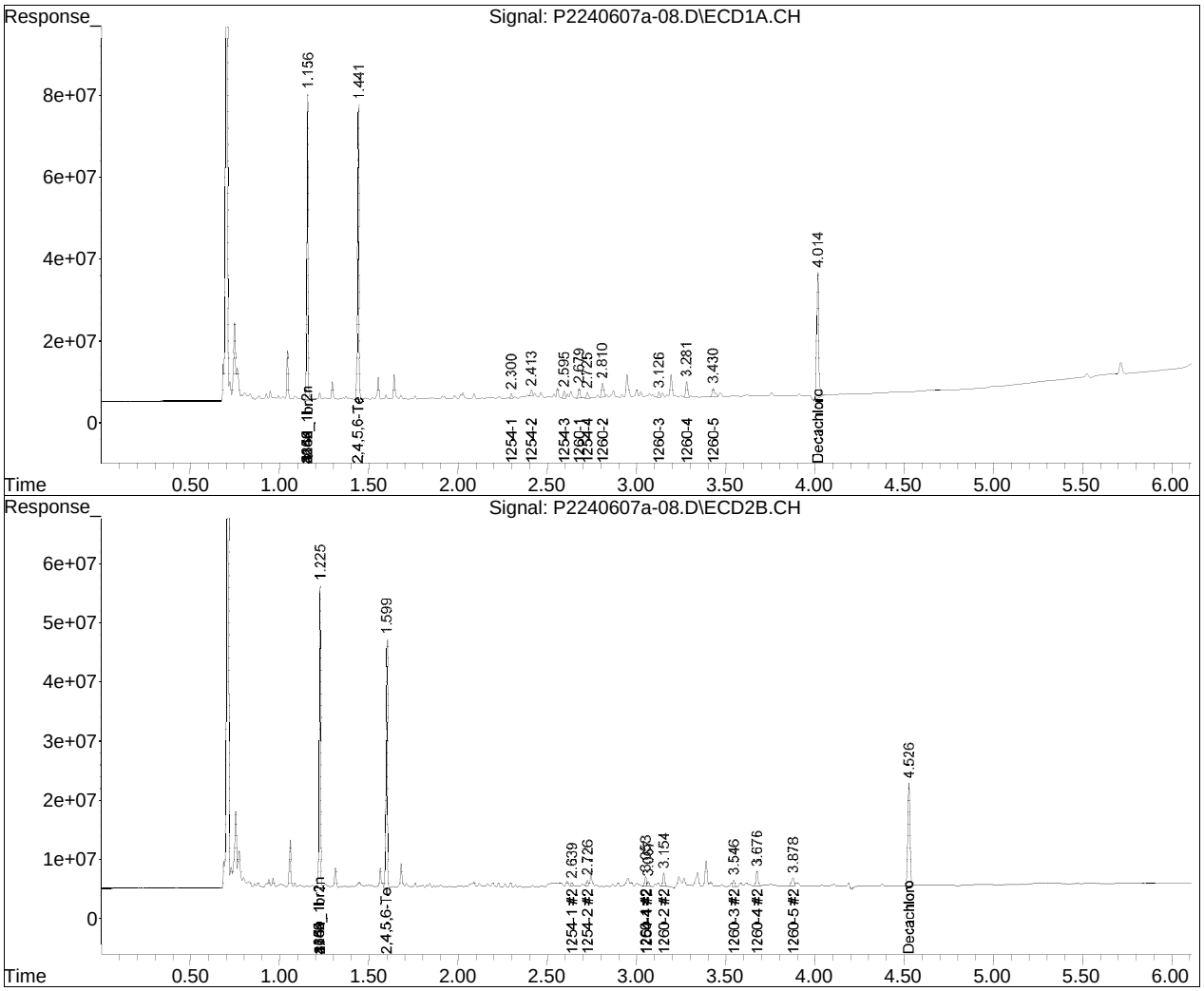
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240607a-02.D•

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 8:43
Operator : pest2:mhg
Sample : L2430219-02,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 09:35:36 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

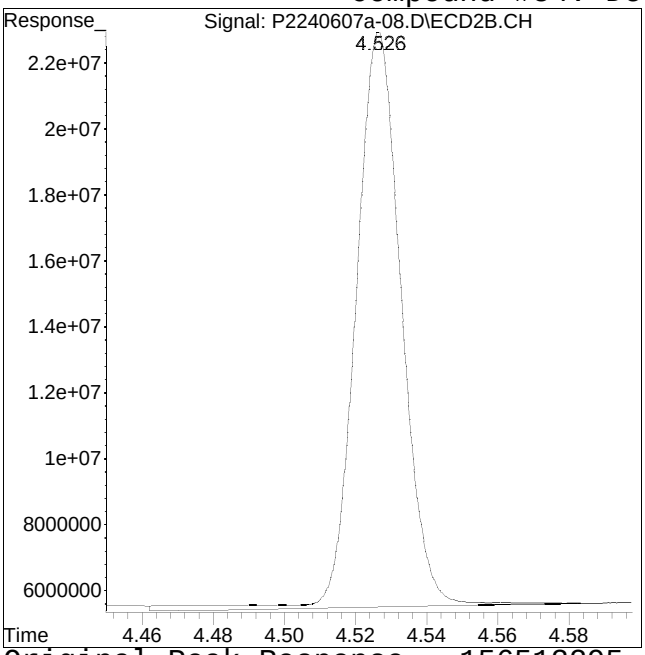
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

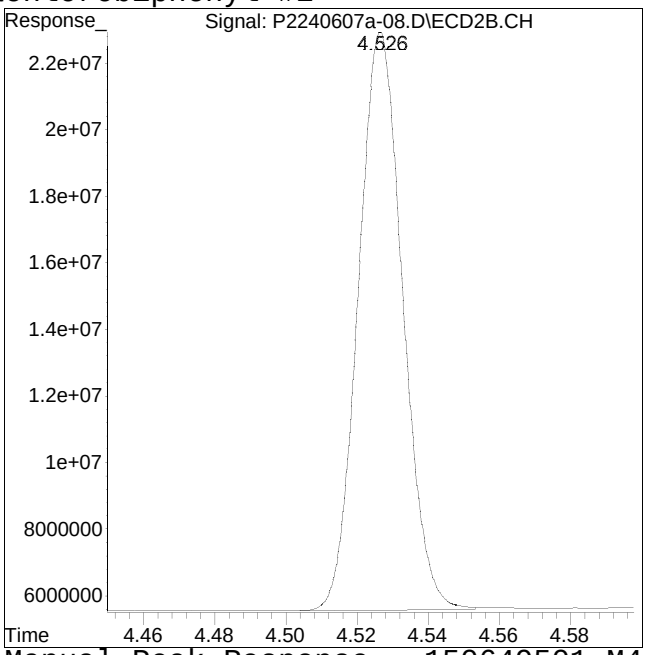


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-08.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:43 Instrument : Pest 2
Sample : L2430219-02,42,, Quant Date : 6/7/2024 9:35 am

Compound #54: Decachlorobiphenyl #2



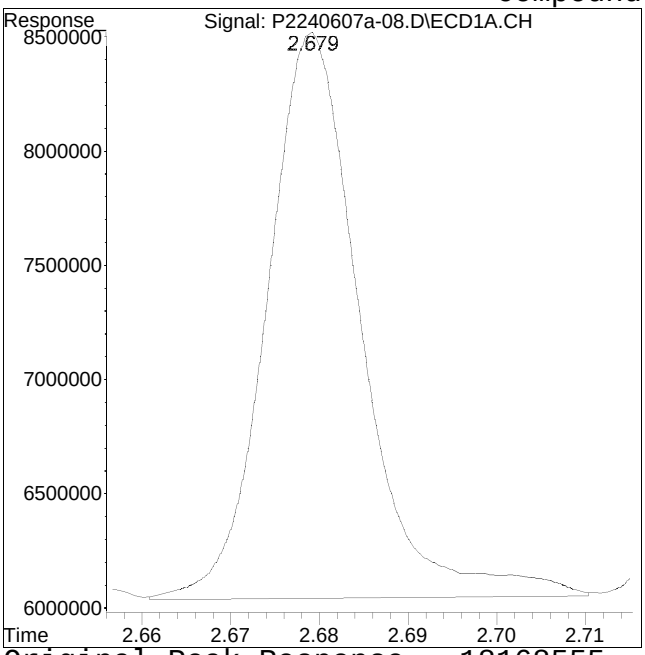


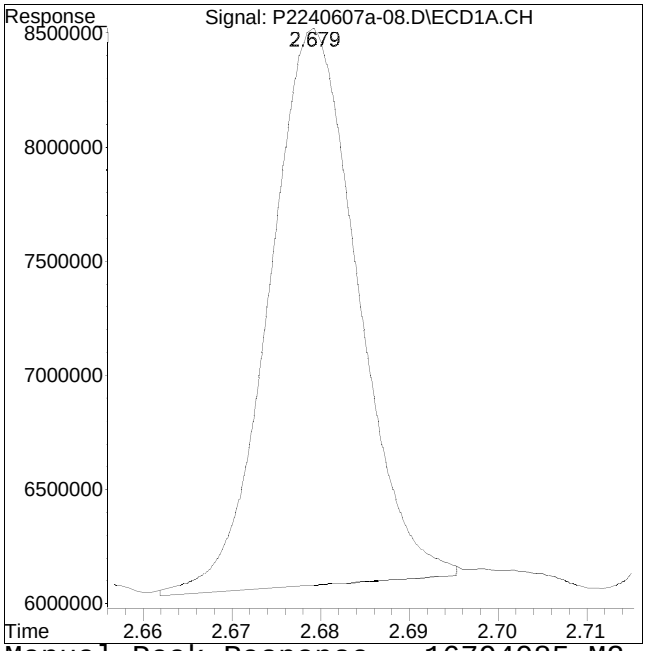
Original Peak Response = 156512295 Manual Peak Response = 150649501 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-08.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:43 Instrument : Pest 2
Sample : L2430219-02,42,, Quant Date : 6/7/2024 9:35 am

Compound #9: 1260-1



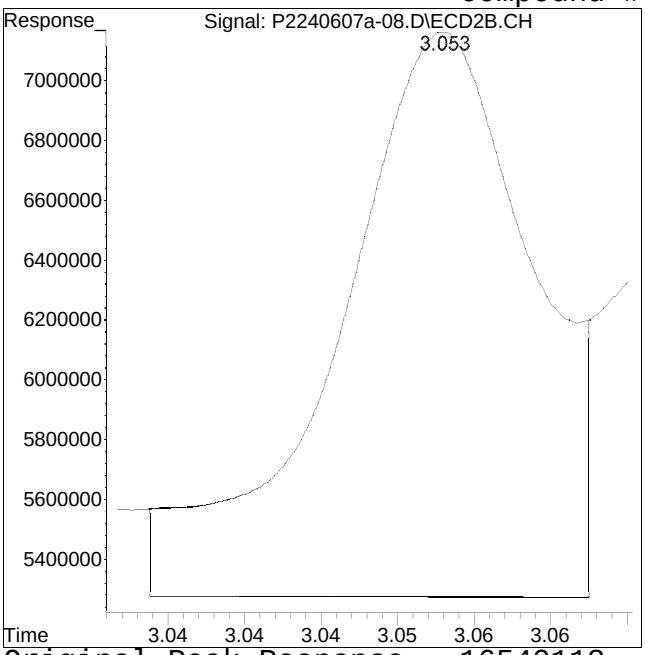


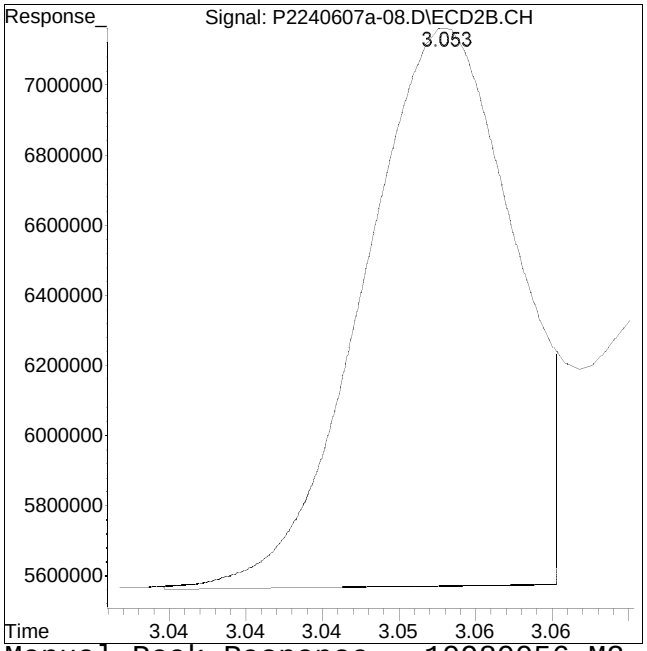
Original Peak Response = 18168555 Manual Peak Response = 16794085 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-08.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:43 Instrument : Pest 2
Sample : L2430219-02,42,, Quant Date : 6/7/2024 9:35 am

Compound #60: 1260-1 #2



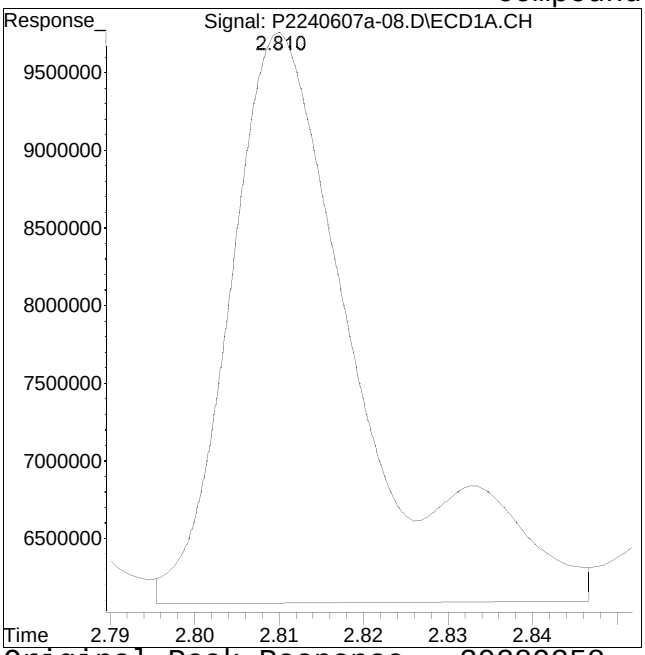


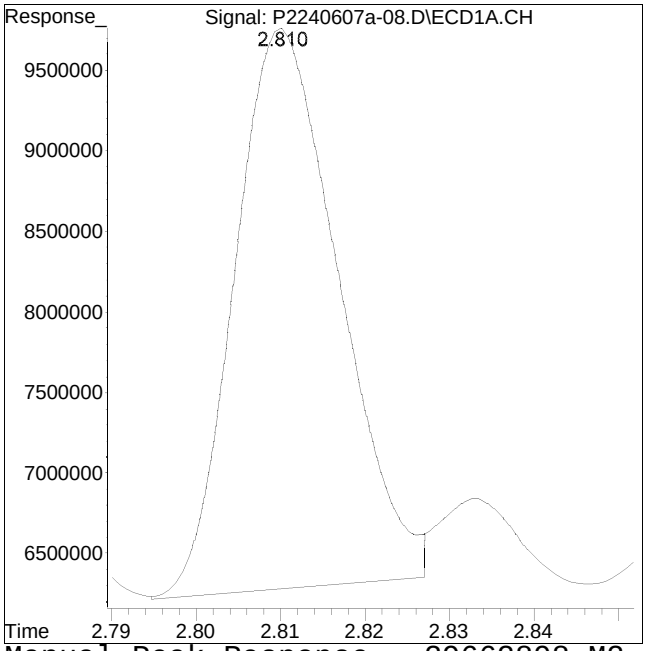
Original Peak Response = 16540113 Manual Peak Response = 10980056 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-08.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:43 Instrument : Pest 2
Sample : L2430219-02,42,, Quant Date : 6/7/2024 9:35 am

Compound #10: 1260-2



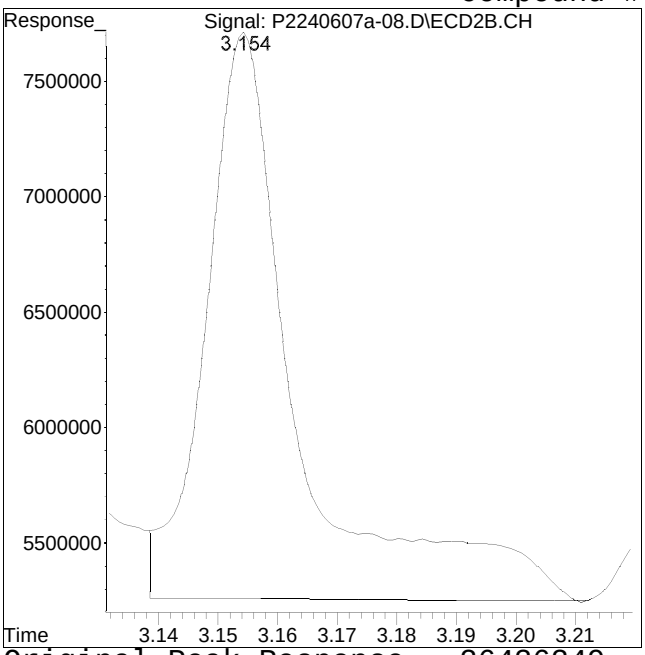


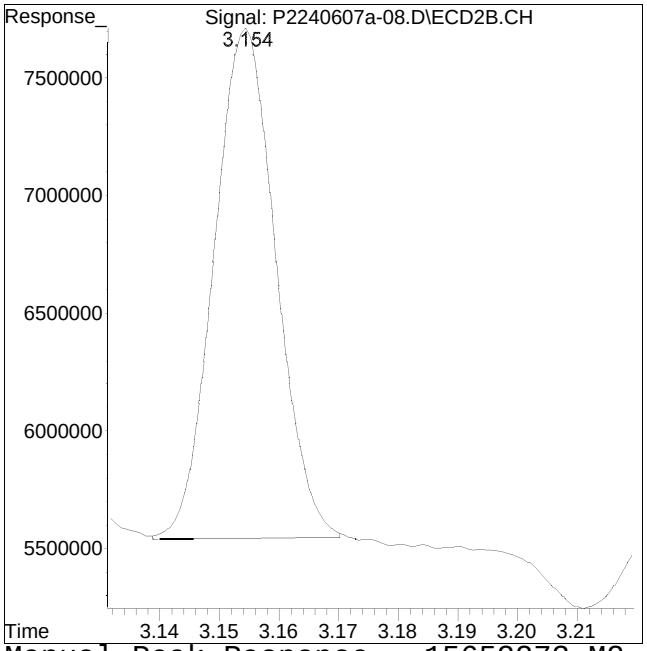
Original Peak Response = 39289358 Manual Peak Response = 29662898 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-08.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:43 Instrument : Pest 2
Sample : L2430219-02,42,, Quant Date : 6/7/2024 9:35 am

Compound #61: 1260-2 #2



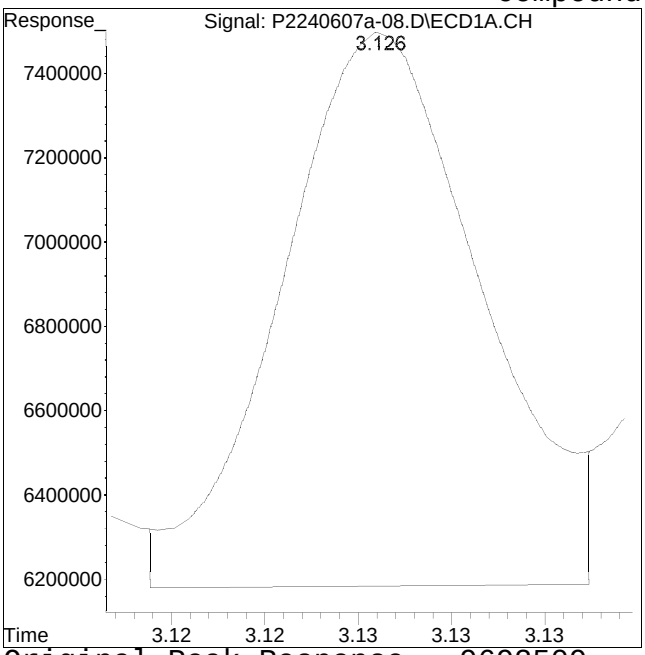


Original Peak Response = 26436249 Manual Peak Response = 15652273 M2
M2 = Peak not found by automatic integration algorithm.

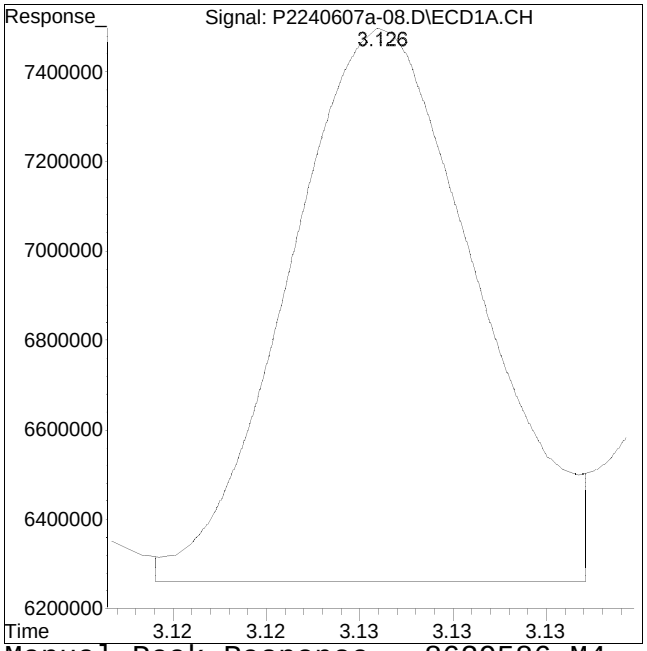
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-08.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:43 Instrument : Pest 2
Sample : L2430219-02,42,, Quant Date : 6/7/2024 9:35 am

Compound #11: 1260-3



Original Peak Response = 9692509



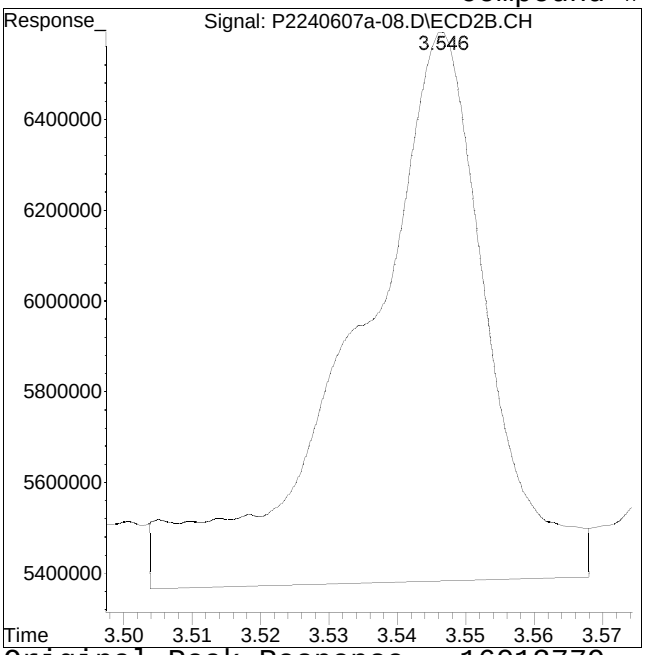
Manual Peak Response = 8629586 M4

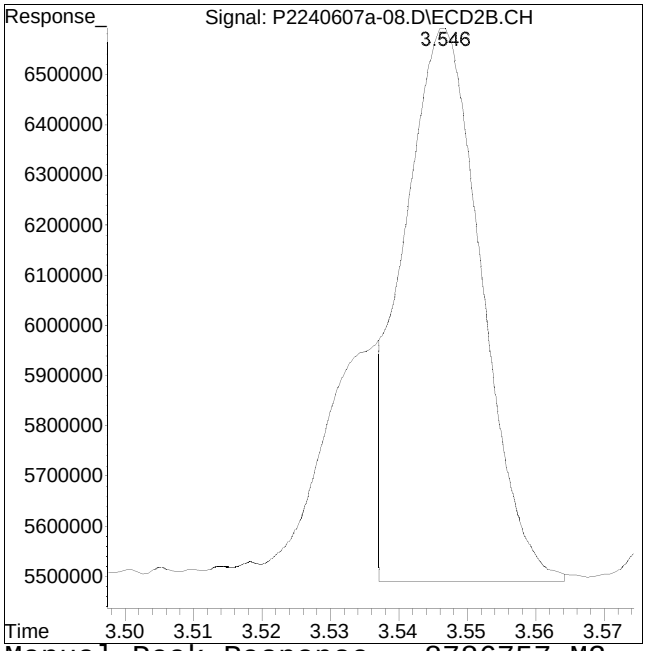
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-08.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:43 Instrument : Pest 2
Sample : L2430219-02,42,, Quant Date : 6/7/2024 9:35 am

Compound #62: 1260-3 #2



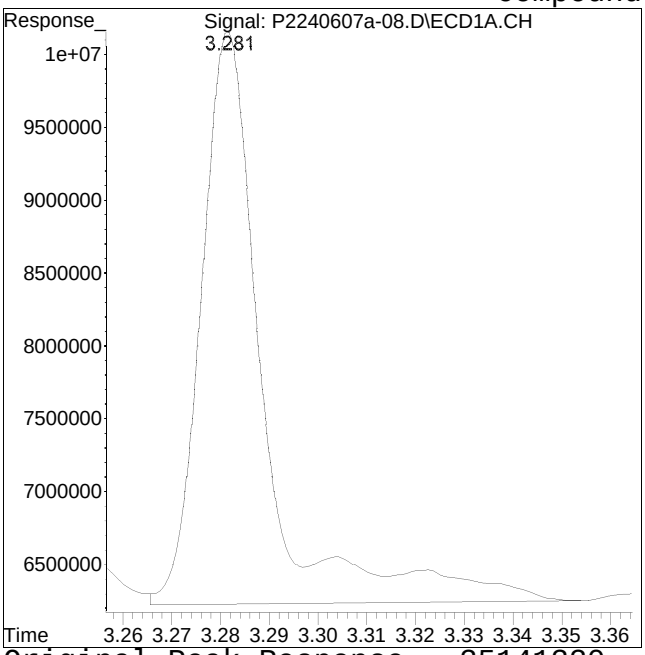


Original Peak Response = 16013779 Manual Peak Response = 8786757 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

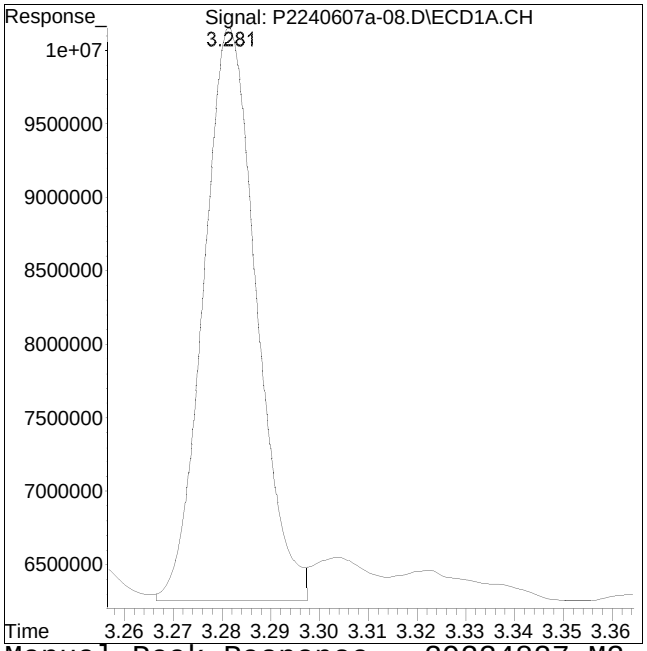
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-08.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:43 Instrument : Pest 2
Sample : L2430219-02,42,, Quant Date : 6/7/2024 9:35 am

Compound #12: 1260-4



Original Peak Response = 35141330



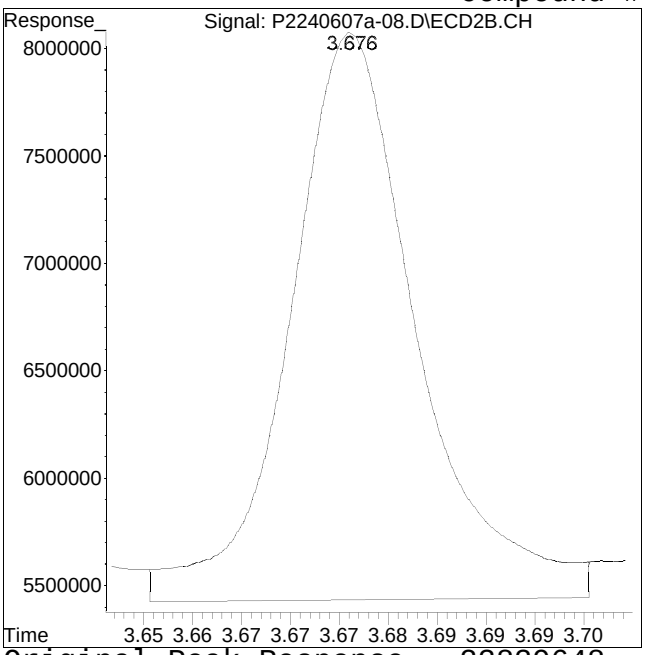
Manual Peak Response = 29234827 M3

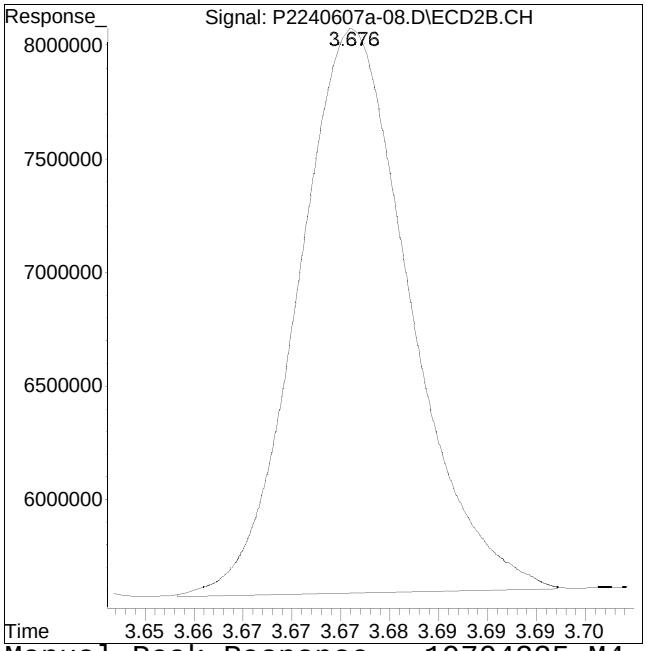
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-08.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:43 Instrument : Pest 2
Sample : L2430219-02,42,, Quant Date : 6/7/2024 9:35 am

Compound #63: 1260-4 #2



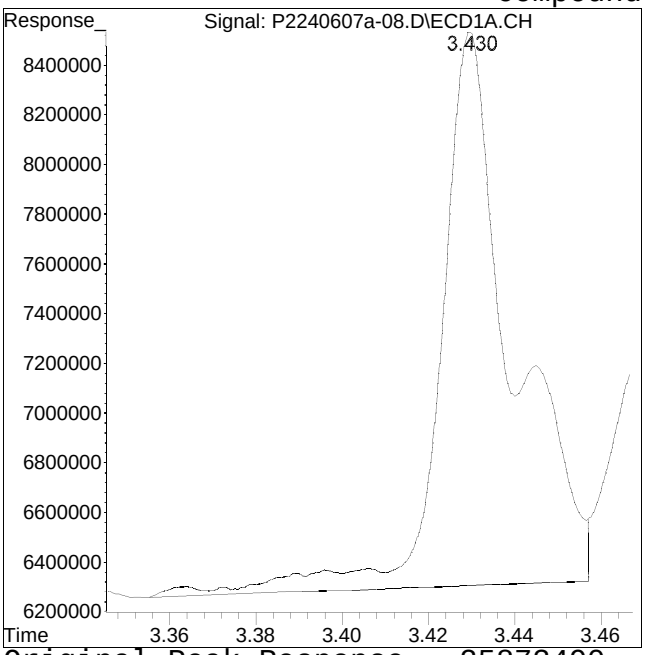


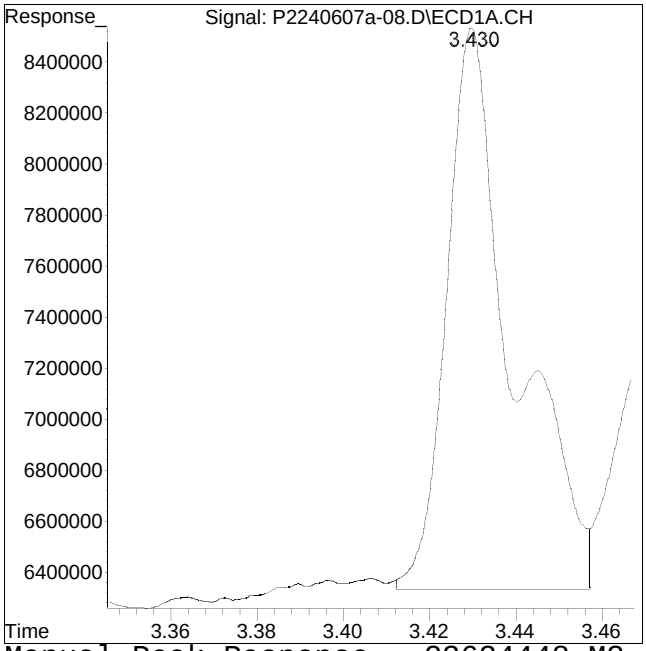
Original Peak Response = 23839648 Manual Peak Response = 19704225 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-08.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:43 Instrument : Pest 2
Sample : L2430219-02,42,, Quant Date : 6/7/2024 9:35 am

Compound #13: 1260-5



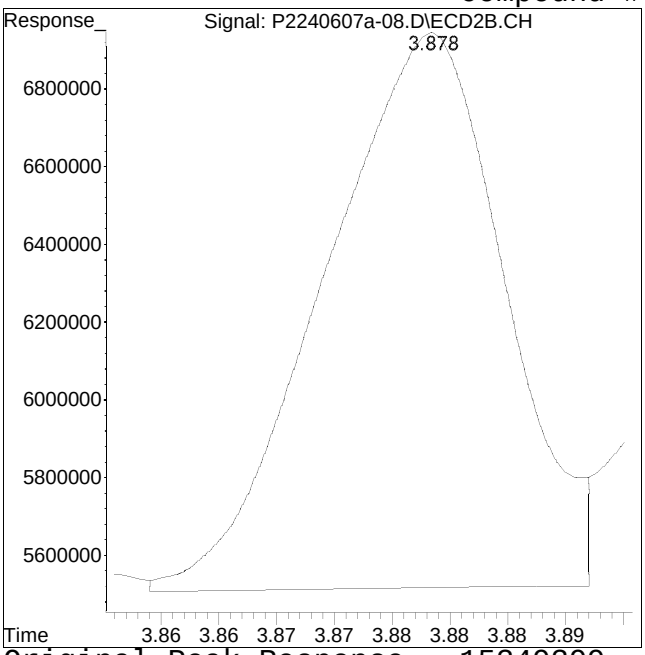


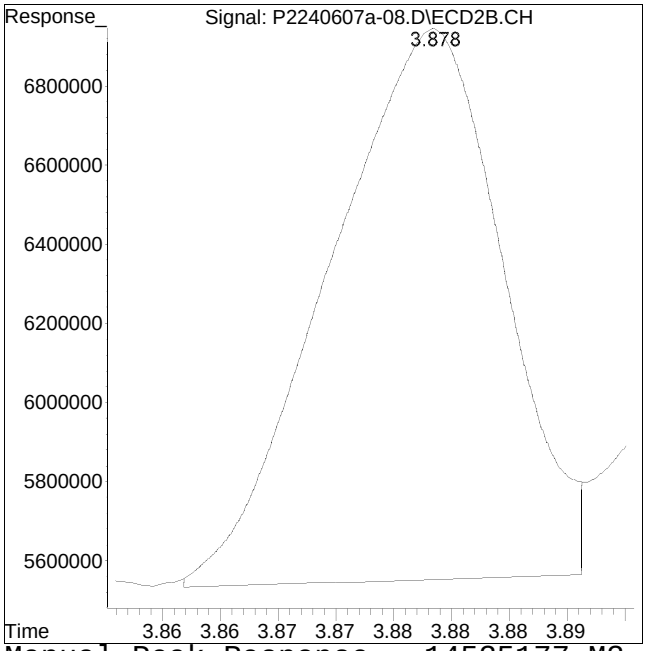
Original Peak Response = 25873490 Manual Peak Response = 23634448 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-08.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:43 Instrument : Pest 2
Sample : L2430219-02,42,, Quant Date : 6/7/2024 9:35 am

Compound #64: 1260-5 #2



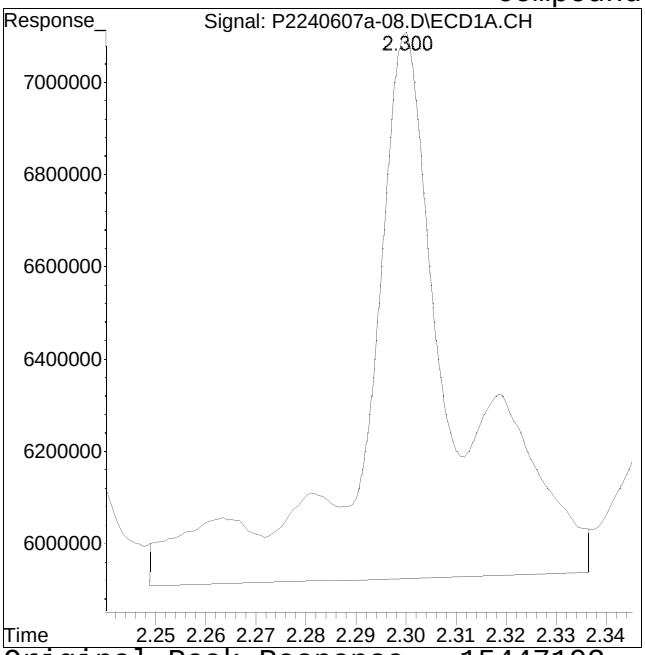


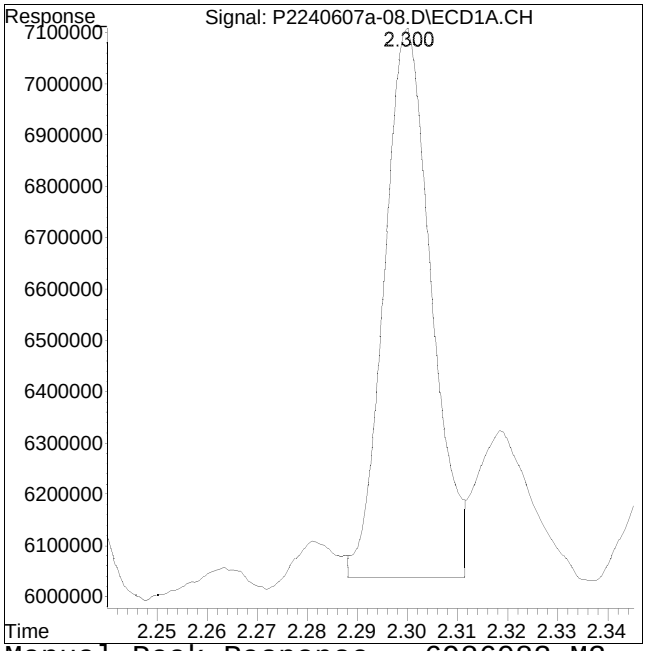
Original Peak Response = 15349399 Manual Peak Response = 14535177 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-08.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:43 Instrument : Pest 2
Sample : L2430219-02,42,, Quant Date : 6/7/2024 9:35 am

Compound #18: 1254-1



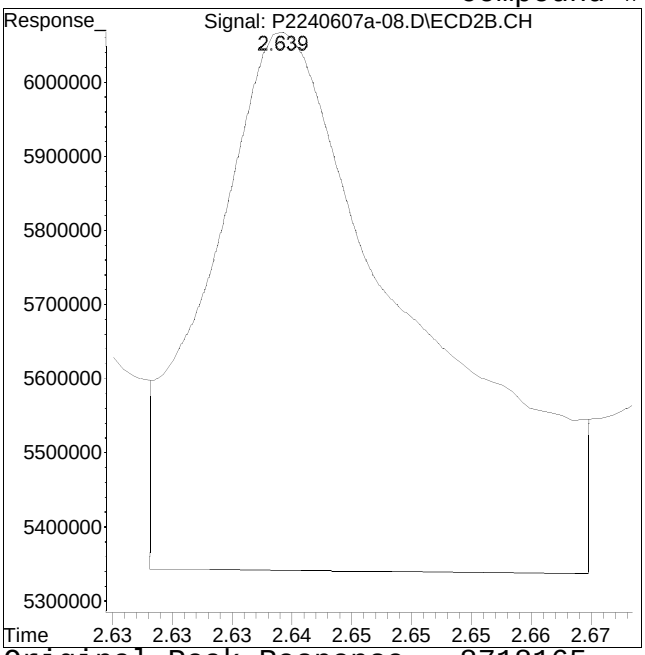


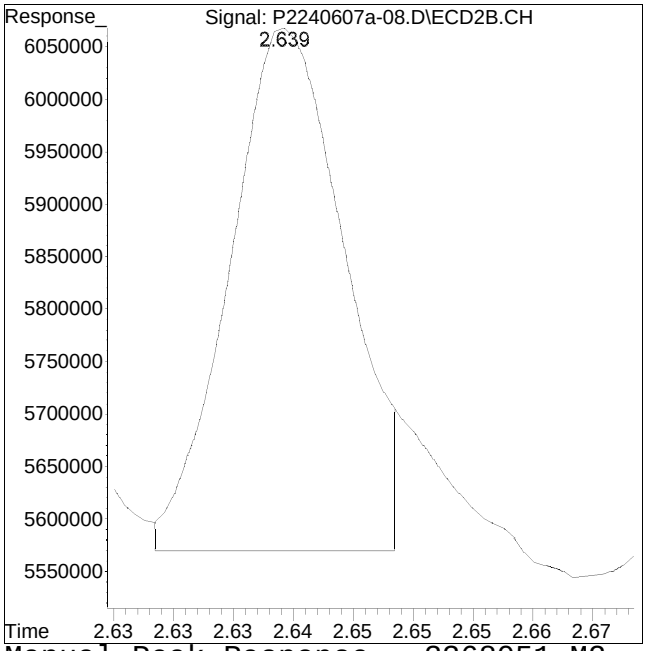
Original Peak Response = 15447192 Manual Peak Response = 6986083 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-08.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:43 Instrument : Pest 2
Sample : L2430219-02,42,, Quant Date : 6/7/2024 9:35 am

Compound #69: 1254-1 #2



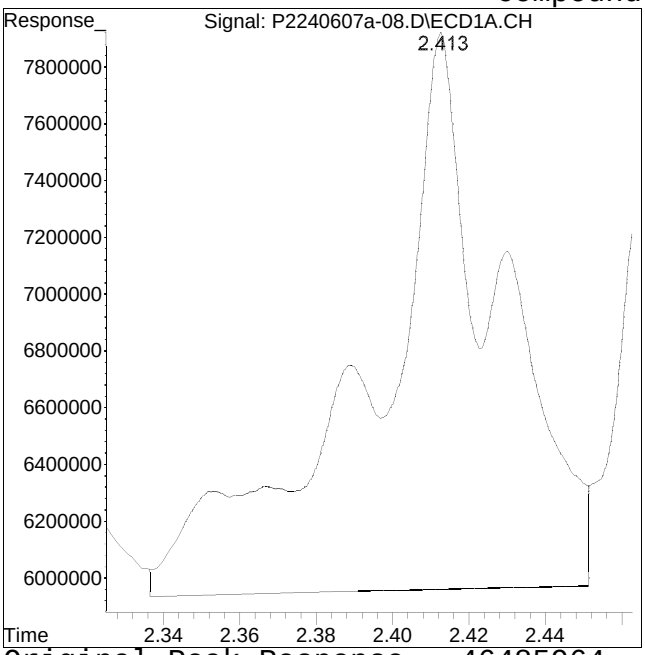


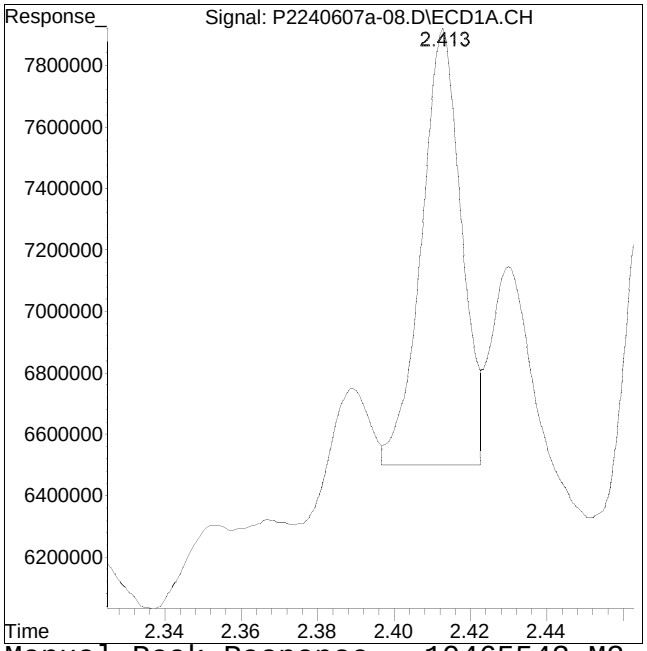
Original Peak Response = 8718165 Manual Peak Response = 3368051 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-08.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:43 Instrument : Pest 2
Sample : L2430219-02,42,, Quant Date : 6/7/2024 9:35 am

Compound #19: 1254-2



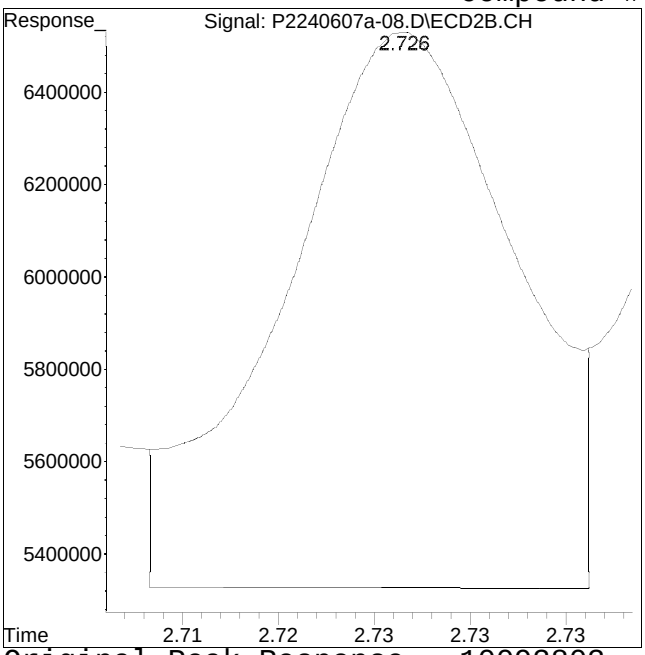


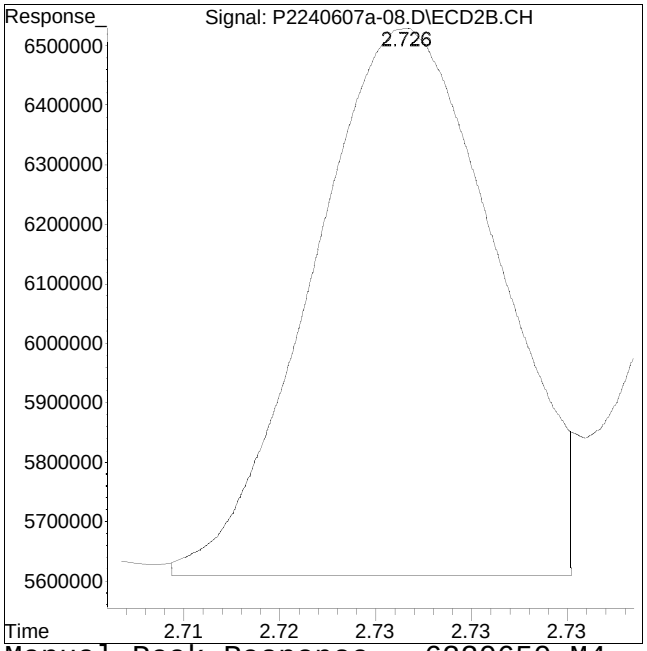
Original Peak Response = 46485964 Manual Peak Response = 10465543 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-08.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:43 Instrument : Pest 2
Sample : L2430219-02,42,, Quant Date : 6/7/2024 9:35 am

Compound #70: 1254-2 #2



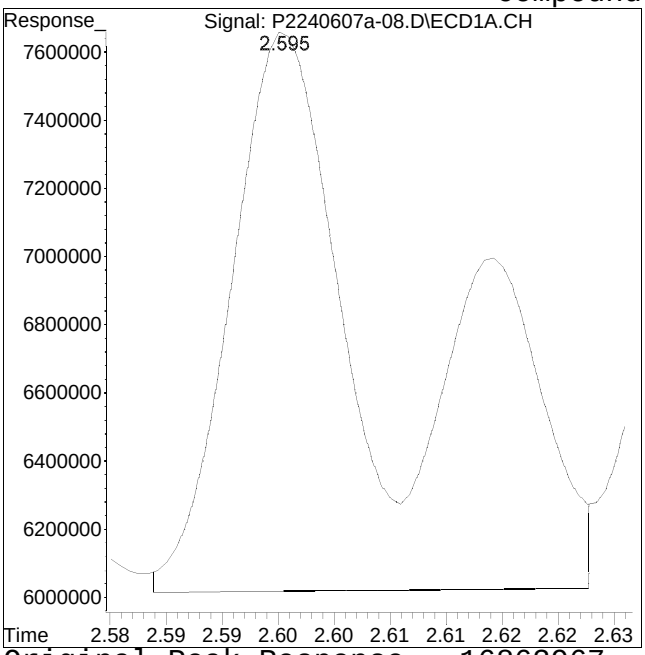


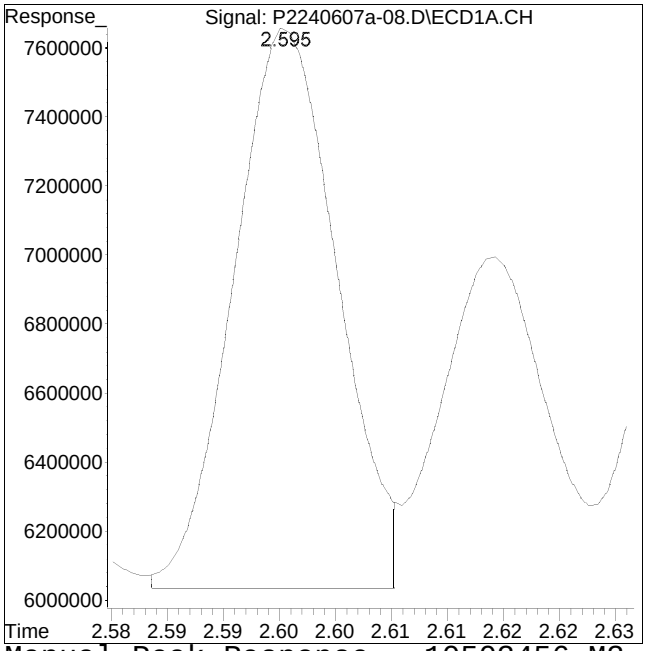
Original Peak Response = 10093803 Manual Peak Response = 6220650 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-08.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:43 Instrument : Pest 2
Sample : L2430219-02,42,, Quant Date : 6/7/2024 9:35 am

Compound #20: 1254-3



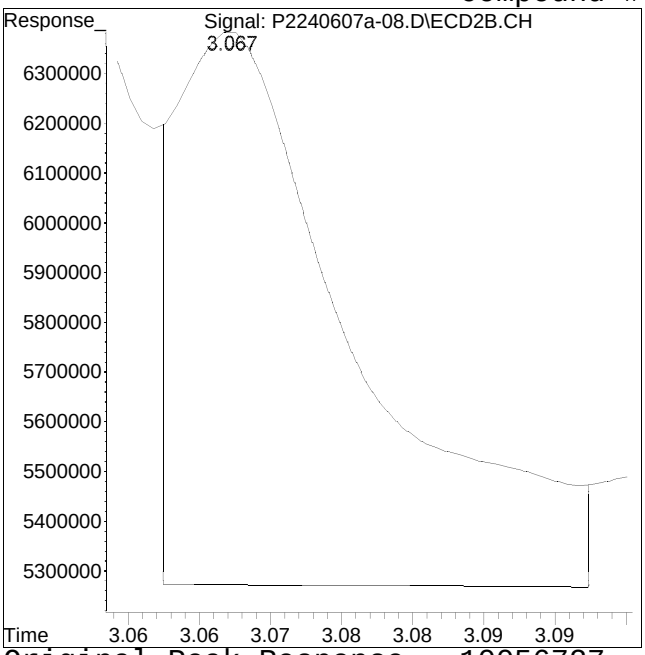


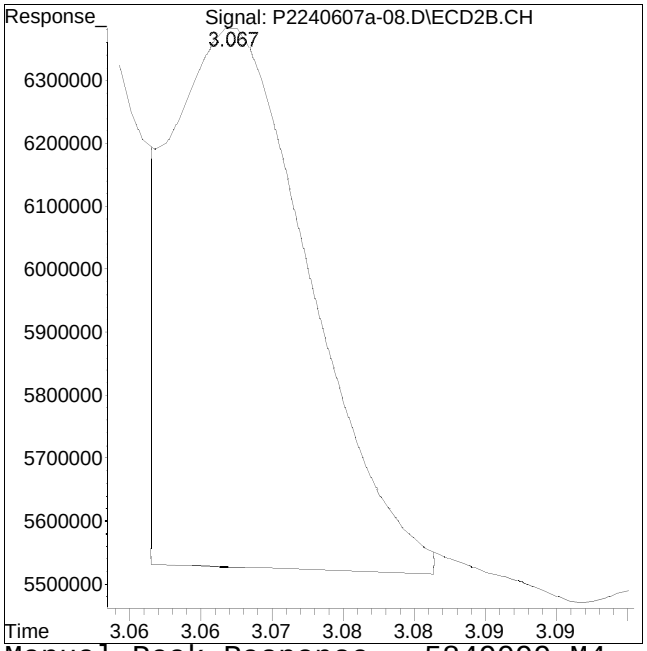
Original Peak Response = 16863967 Manual Peak Response = 10503456 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-08.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:43 Instrument : Pest 2
Sample : L2430219-02,42,, Quant Date : 6/7/2024 9:35 am

Compound #72: 1254-4 #2





Original Peak Response = 10056727 Manual Peak Response = 5849099 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 8:51
Operator : pest2:mhg
Sample : L2430219-03,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 09:35:40 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.156	1.226	414.2E6	266.3E6	25.000M3	25.000M3
	Standard Area 1 : #1 = 477774528				Recovery =	86.68%	
	Standard Area 1 : #2 = 323810098				Recovery =	82.24%	
14) i	2154_1br2nb	1.156	1.226	414.2E6	266.3E6	25.000M3	25.000M3
23) i	4268_1br2nb	1.156	1.226	414.2E6	266.3E6	25.000M3	25.000M3
34) i	1248_1br2nb	1.156	1.226	414.2E6	266.3E6	25.000M3	25.000M3
40) i	3262_1br2nb	1.156	1.226	414.2E6	266.3E6	25.000M3	25.000M3
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.441	1.600	361.8E6	215.8E6	16.662M4	16.447
	Spiked Amount 20.000	Range 30 - 150			Recovery =	83.31%	82.23%
3) s	Decachlorobi	4.014	4.527	262.9E6	143.0E6	18.739	23.149M3
	Spiked Amount 20.000	Range 30 - 150			Recovery =	93.70%	115.75%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	2.679	0.000	17548586	0	16.410M2	N.D. d

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 8:51
Operator : pest2:mhg
Sample : L2430219-03,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 09:35:40 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
10) l2 1260-2	2.809	0.000	29966292	0	18.590M4	N.D. d
11) l2 1260-3	3.125	3.547	7927947	8343929	7.916M4	16.358M3
12) l2 1260-4	3.280	3.676	28990748	18869666	13.511M4	18.403M4
13) l2 1260-5	3.429	3.879	23135237	14054255	15.383M4	19.992M3
Sum 1260-1			107.6E6	41267849	71.811	54.753
Average 1260-1					14.362	18.251
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	2.299	2.640	7555810	4058840	9.081M4	8.280M4
19) l4 1254-2	2.412	2.726	12434139	5891423	8.383M4	10.538M4
20) l4 1254-3	2.595	2.956	10157924	6939812	6.448M4	8.406M3
21) l4 1254-4	2.725	3.066	9997653	4423098	9.069M4	8.664M4
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			40145526	21313173	32.981	35.889
Average 1254-1					8.245	8.972
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 8:51
Operator : pest2:mhg
Sample : L2430219-03,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 09:35:40 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 8:51
Operator : pest2:mhg
Sample : L2430219-03,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 09:35:40 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

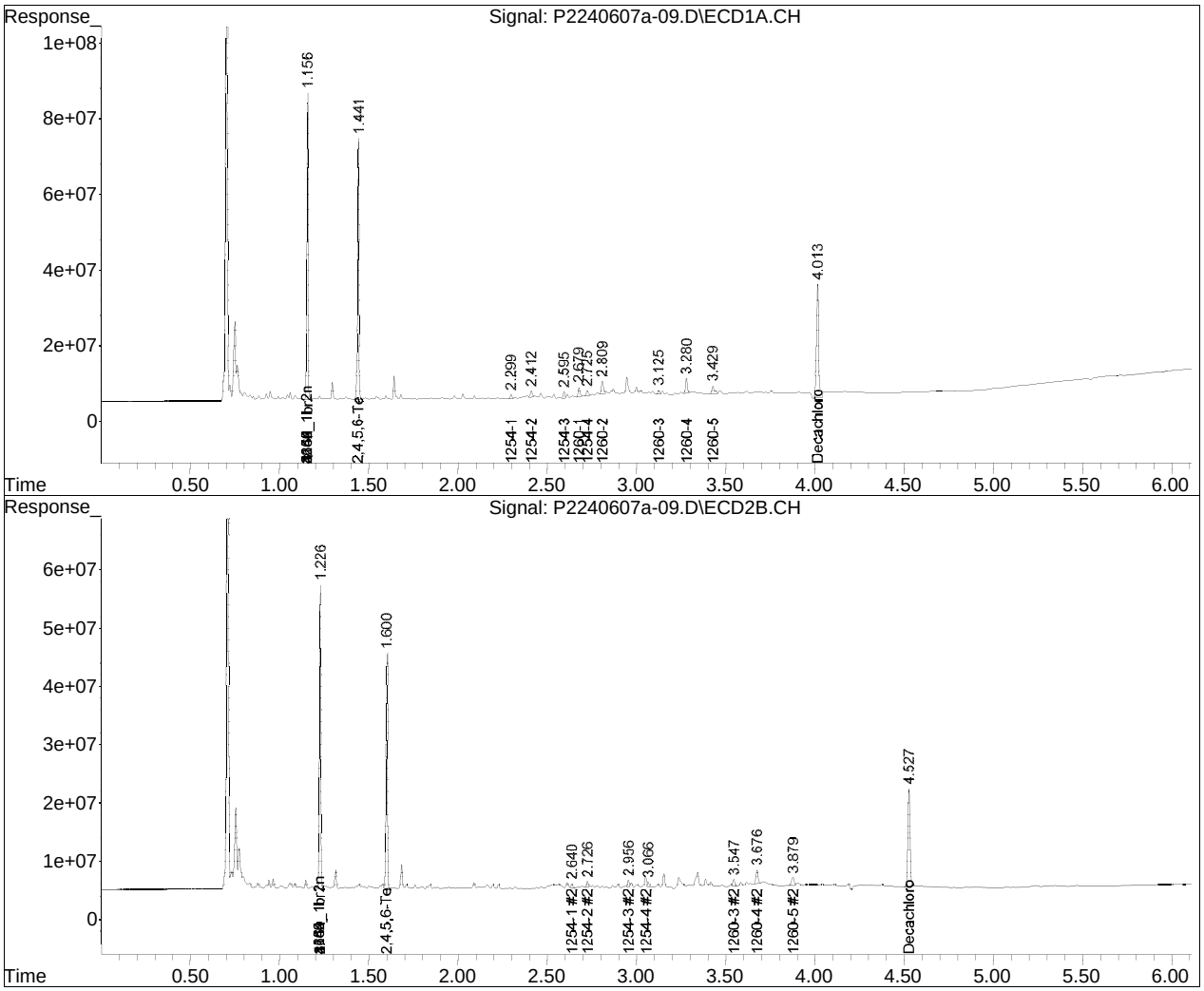
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

Sub List : Default - All compounds listedP2240607a-02.D•

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 8:51
Operator : pest2:mhg
Sample : L2430219-03,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 09:35:40 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

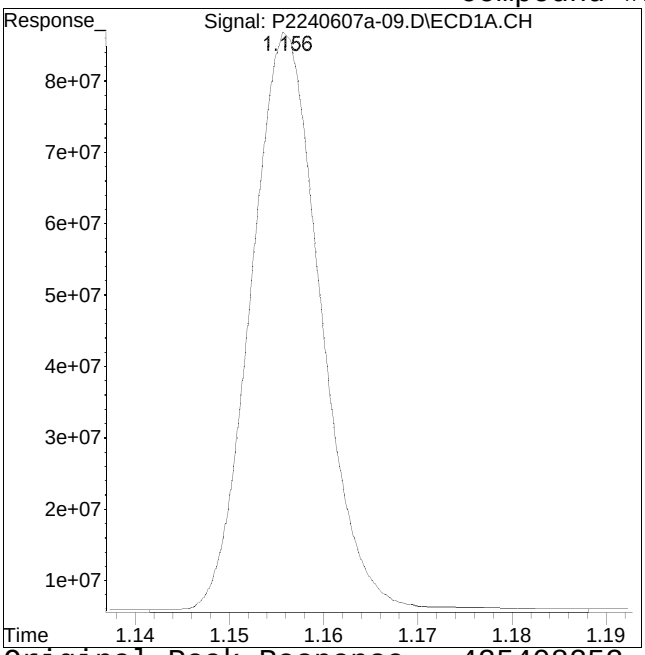
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

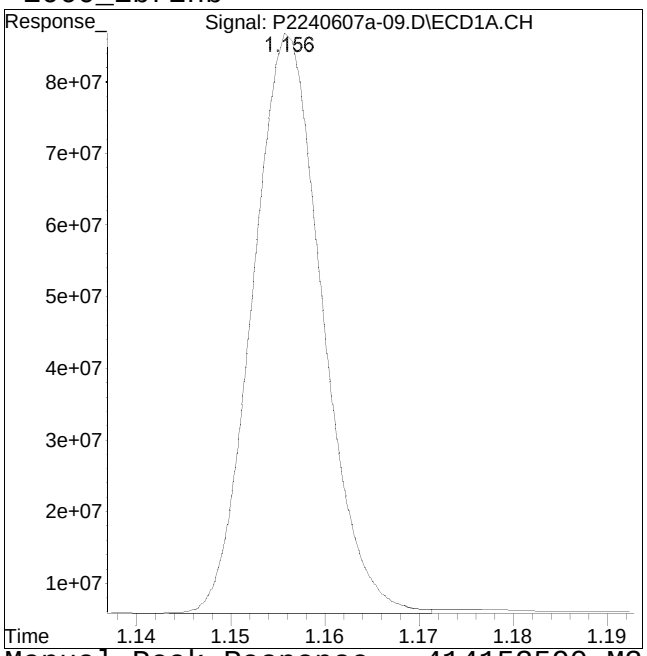


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-09.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:51 Instrument : Pest 2
Sample : L2430219-03,42,, Quant Date : 6/7/2024 9:35 am

Compound #1: 1660_1br2nb



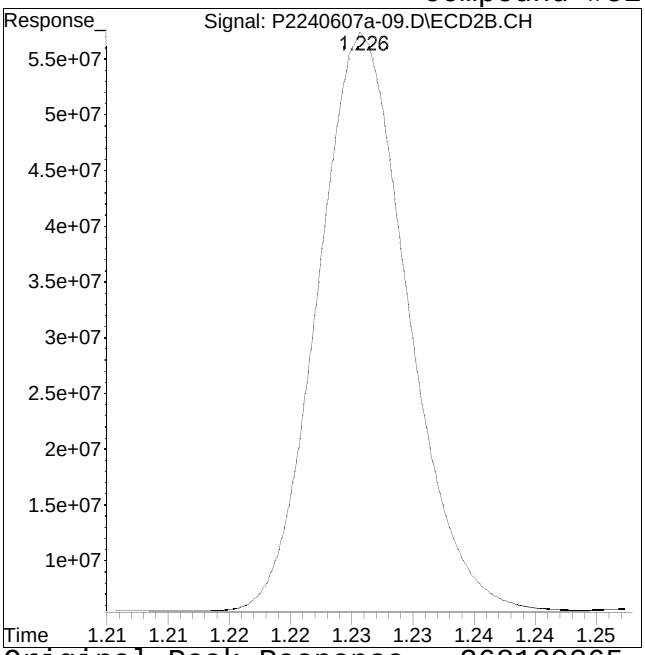


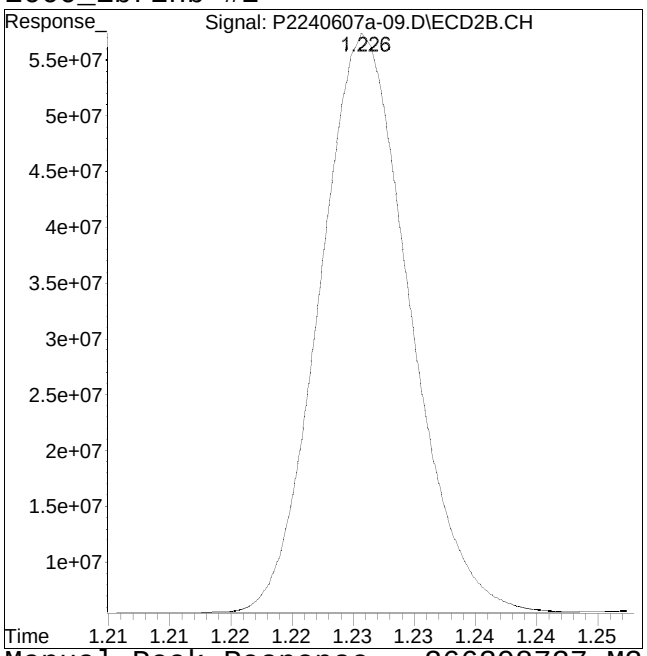
Original Peak Response = 425408253 Manual Peak Response = 414153590 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-09.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:51 Instrument : Pest 2
Sample : L2430219-03,42,, Quant Date : 6/7/2024 9:35 am

Compound #52: 1660_1br2nb #2



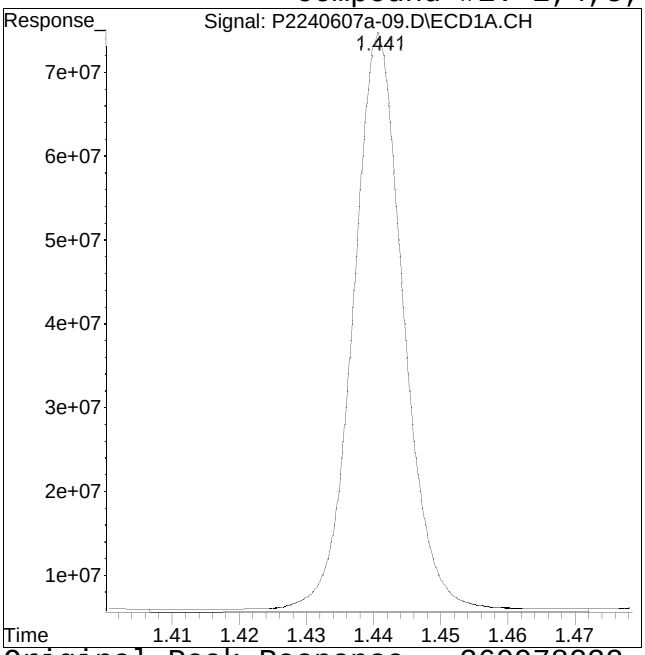


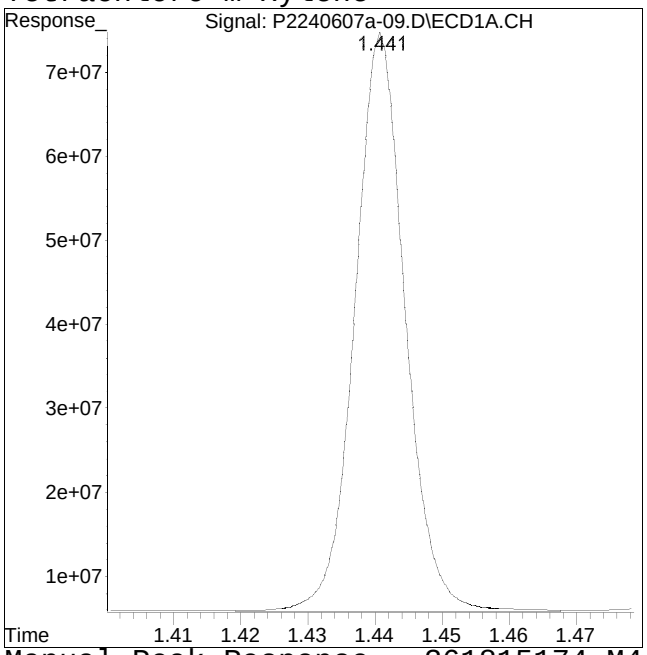
Original Peak Response = 268139365 Manual Peak Response = 266308737 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-09.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:51 Instrument : Pest 2
Sample : L2430219-03,42,, Quant Date : 6/7/2024 9:35 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



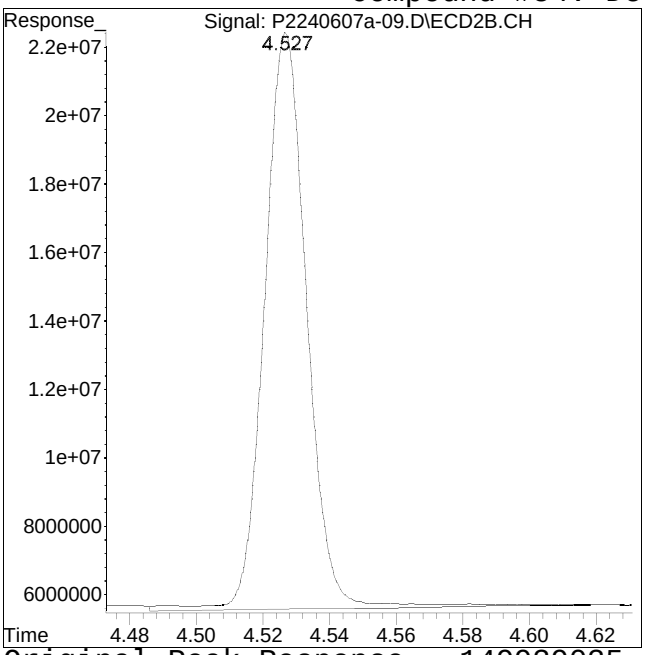


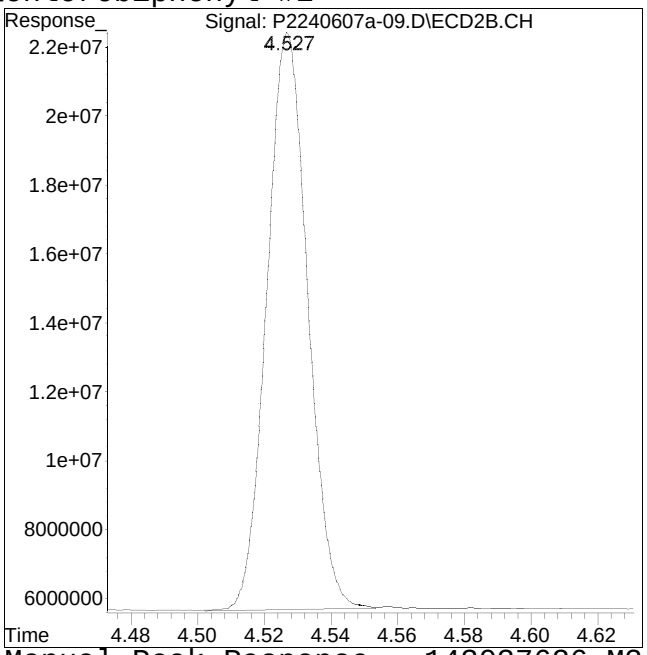
Original Peak Response = 369978232 Manual Peak Response = 361815174 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-09.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:51 Instrument : Pest 2
Sample : L2430219-03,42,, Quant Date : 6/7/2024 9:35 am

Compound #54: Decachlorobiphenyl #2



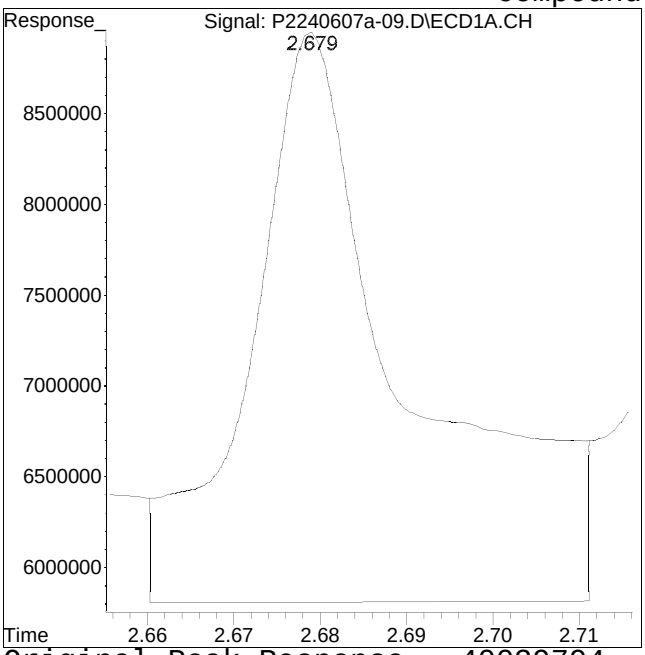


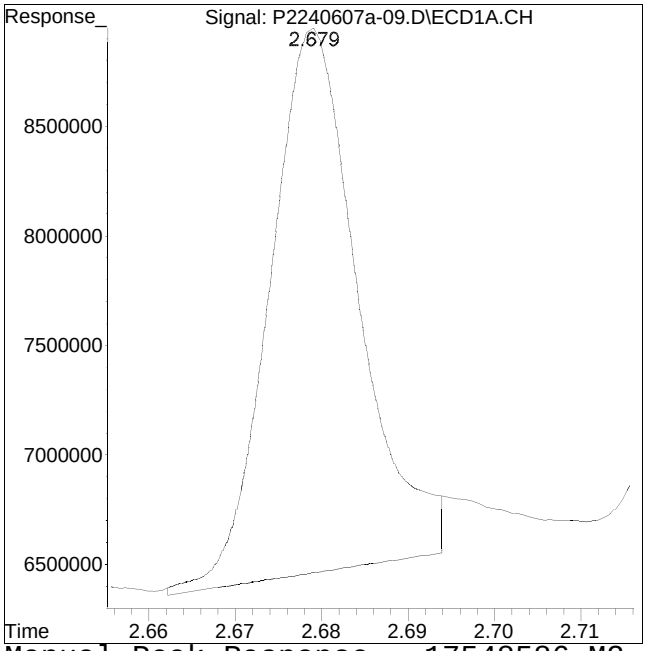
Original Peak Response = 149939035 Manual Peak Response = 143037626 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-09.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:51 Instrument : Pest 2
Sample : L2430219-03,42,, Quant Date : 6/7/2024 9:35 am

Compound #9: 1260-1



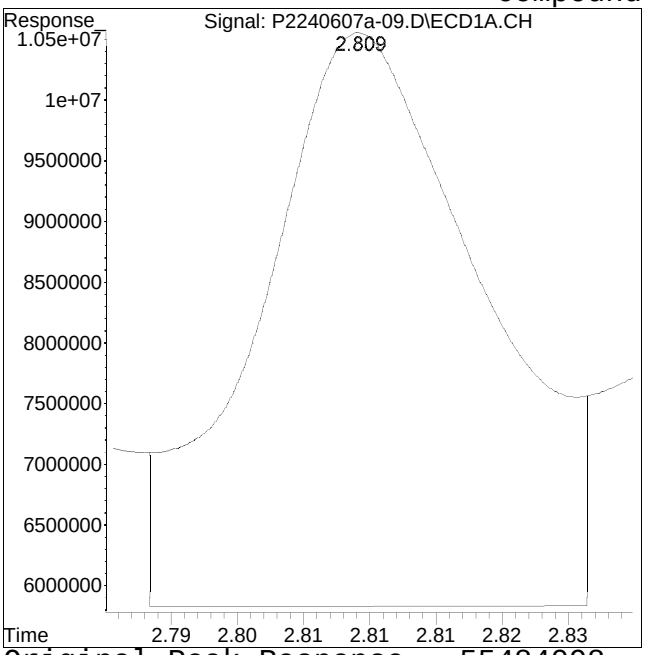


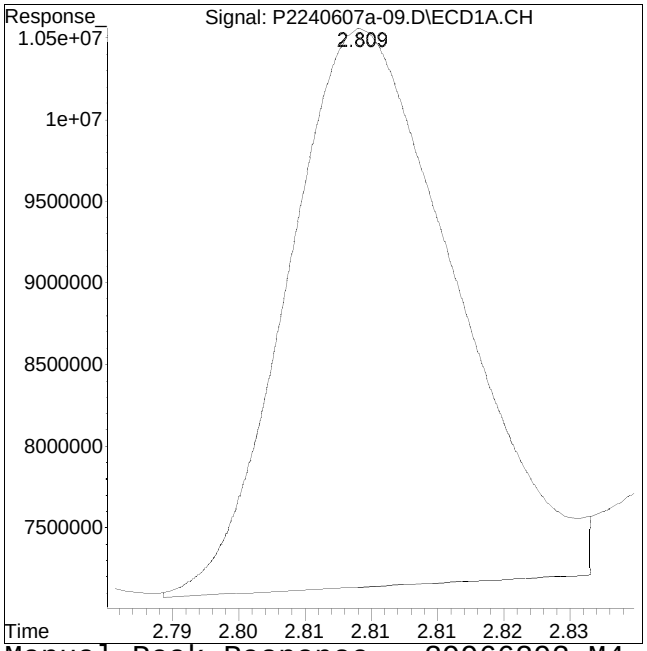
Original Peak Response = 40039794 Manual Peak Response = 17548586 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-09.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:51 Instrument : Pest 2
Sample : L2430219-03,42,, Quant Date : 6/7/2024 9:35 am

Compound #10: 1260-2



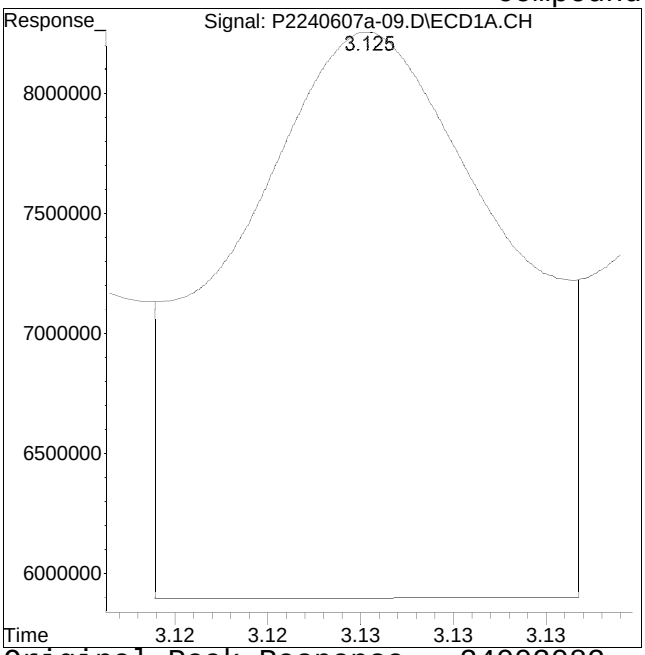


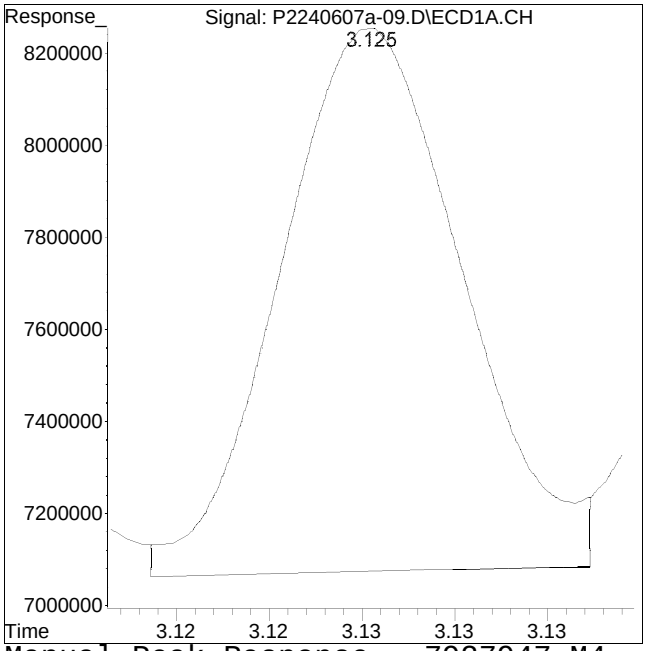
Original Peak Response = 55484098 Manual Peak Response = 29966292 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-09.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:51 Instrument : Pest 2
Sample : L2430219-03,42,, Quant Date : 6/7/2024 9:35 am

Compound #11: 1260-3



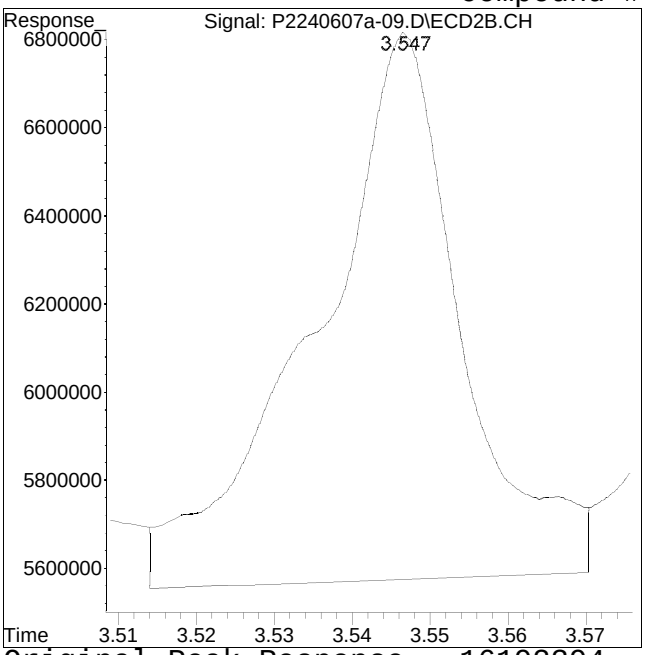


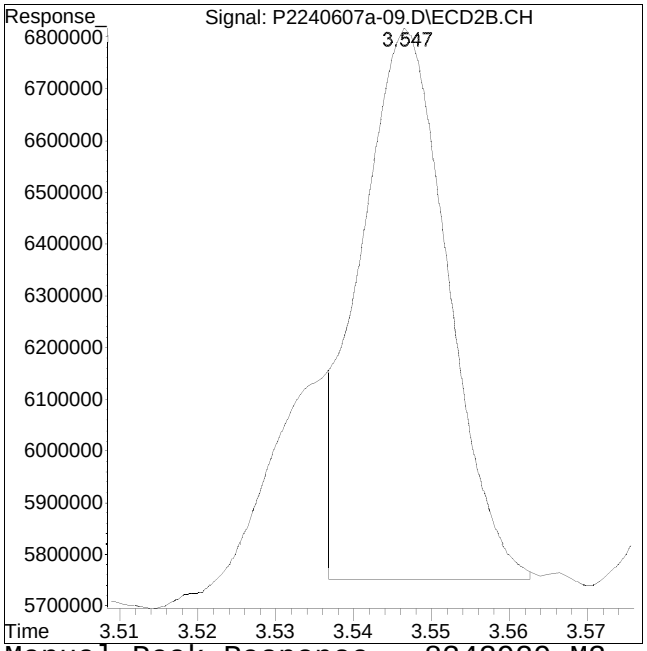
Original Peak Response = 24003082 Manual Peak Response = 7927947 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-09.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:51 Instrument : Pest 2
Sample : L2430219-03,42,, Quant Date : 6/7/2024 9:35 am

Compound #62: 1260-3 #2



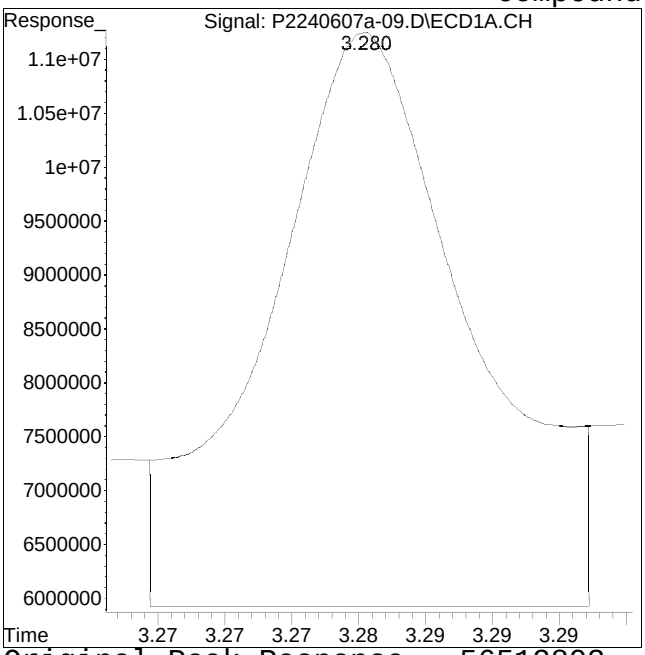


Original Peak Response = 16192394 Manual Peak Response = 8343929 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

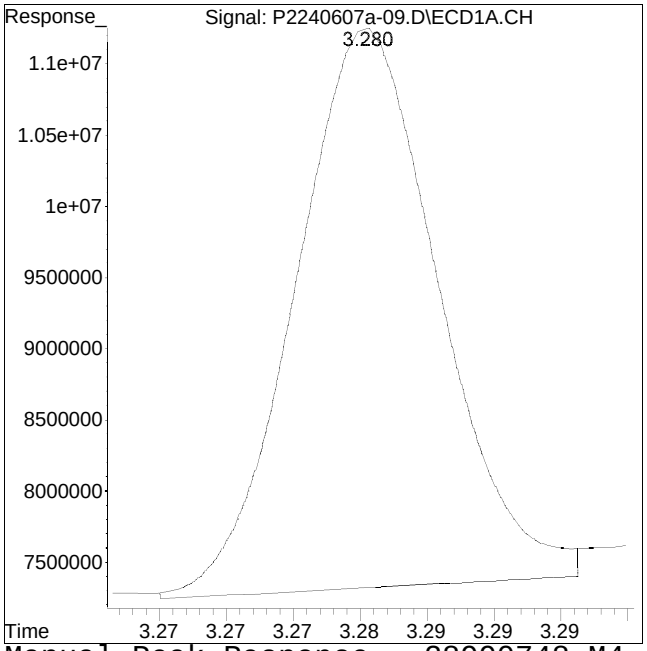
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-09.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:51 Instrument : Pest 2
Sample : L2430219-03,42,, Quant Date : 6/7/2024 9:35 am

Compound #12: 1260-4



Original Peak Response = 56512893



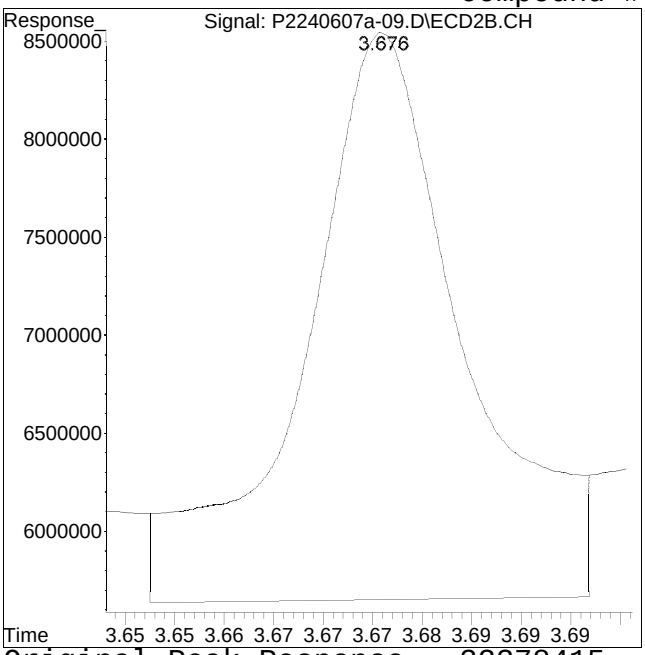
Manual Peak Response = 28990748 M4

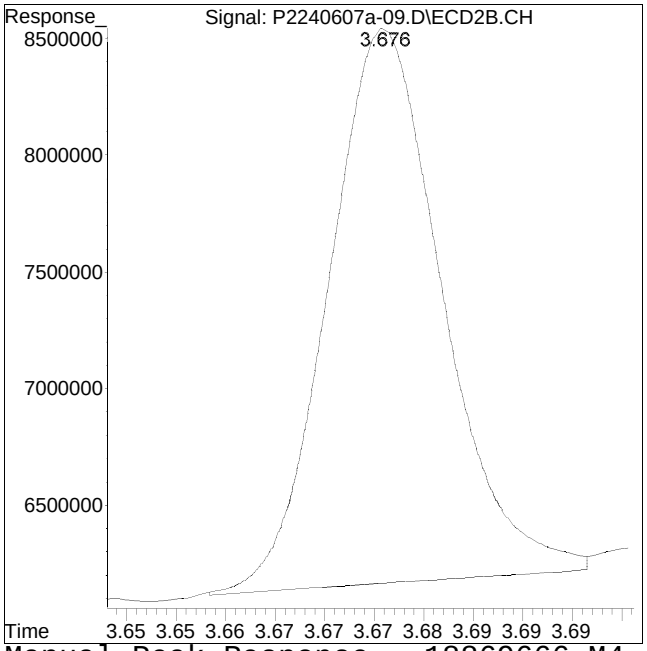
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-09.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:51 Instrument : Pest 2
Sample : L2430219-03,42,, Quant Date : 6/7/2024 9:35 am

Compound #63: 1260-4 #2



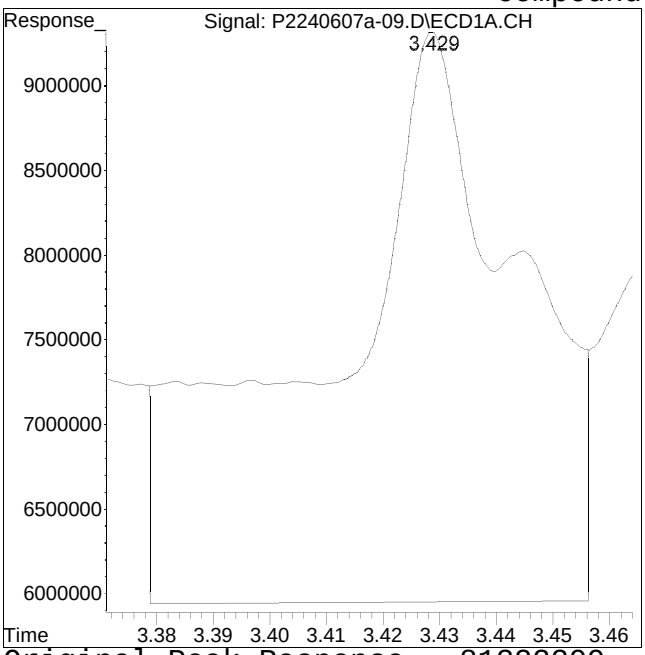


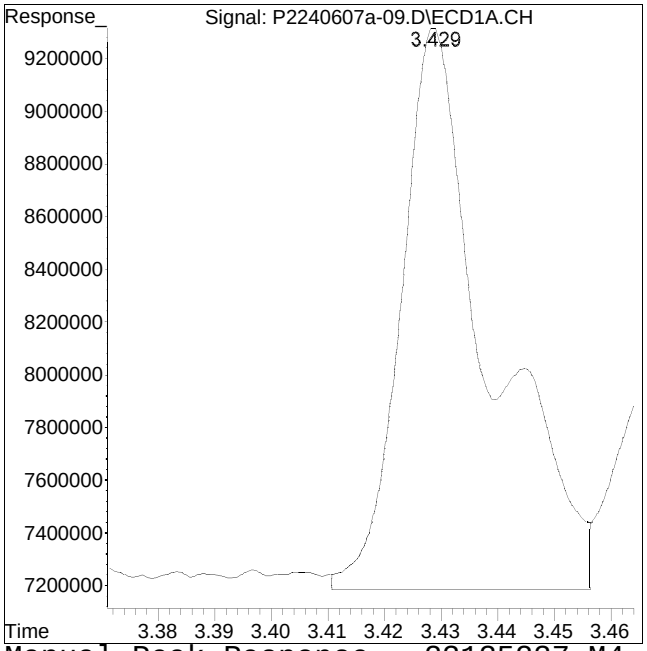
Original Peak Response = 32378415 Manual Peak Response = 18869666 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-09.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:51 Instrument : Pest 2
Sample : L2430219-03,42,, Quant Date : 6/7/2024 9:35 am

Compound #13: 1260-5



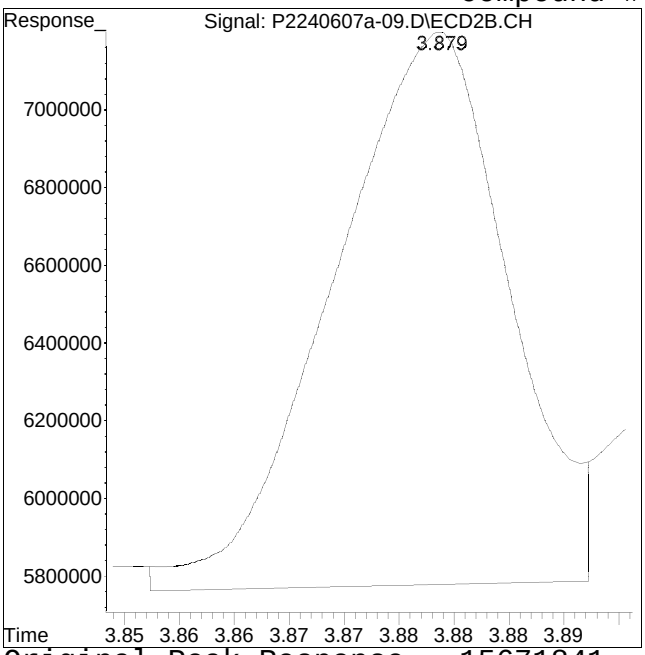


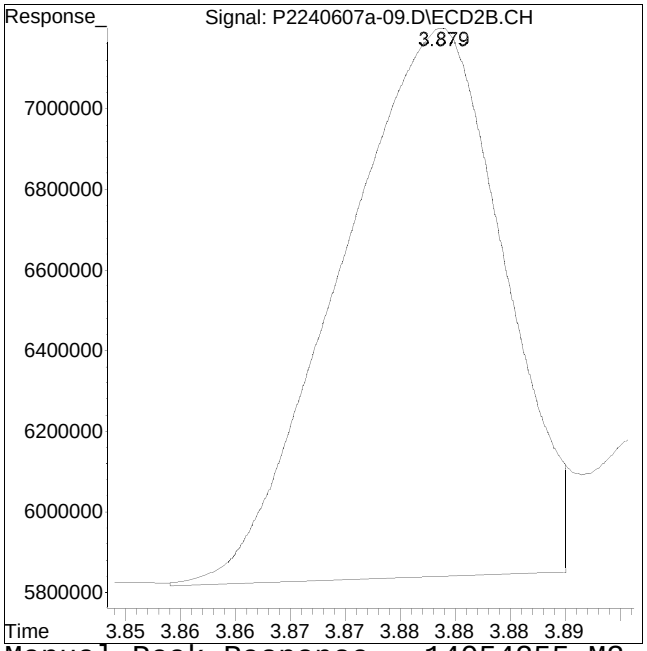
Original Peak Response = 81322299 Manual Peak Response = 23135237 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-09.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:51 Instrument : Pest 2
Sample : L2430219-03,42,, Quant Date : 6/7/2024 9:35 am

Compound #64: 1260-5 #2



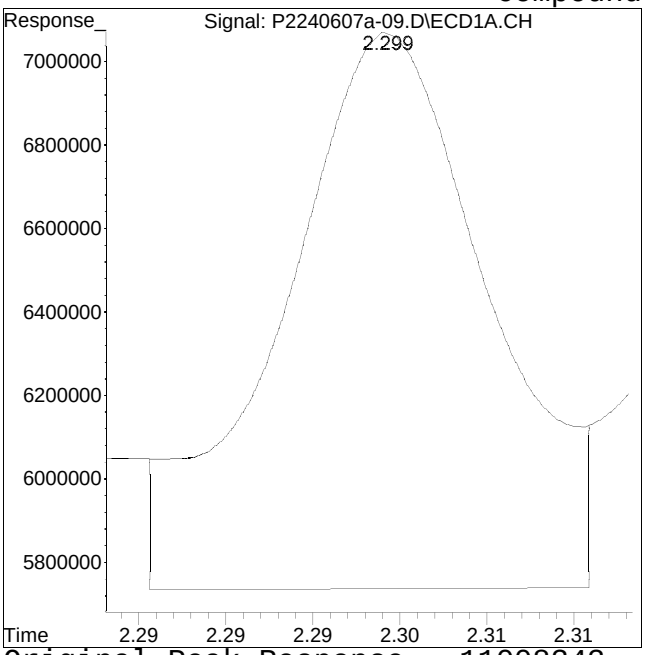


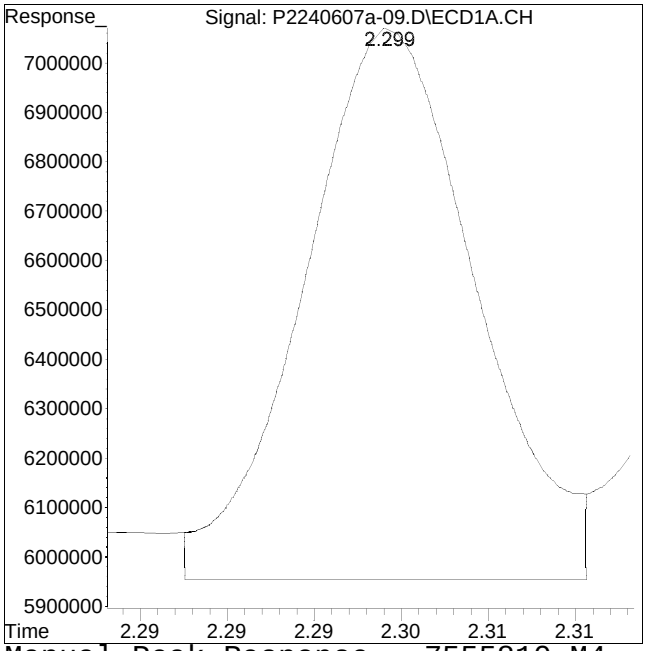
Original Peak Response = 15671841 Manual Peak Response = 14054255 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-09.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:51 Instrument : Pest 2
Sample : L2430219-03,42,, Quant Date : 6/7/2024 9:35 am

Compound #18: 1254-1



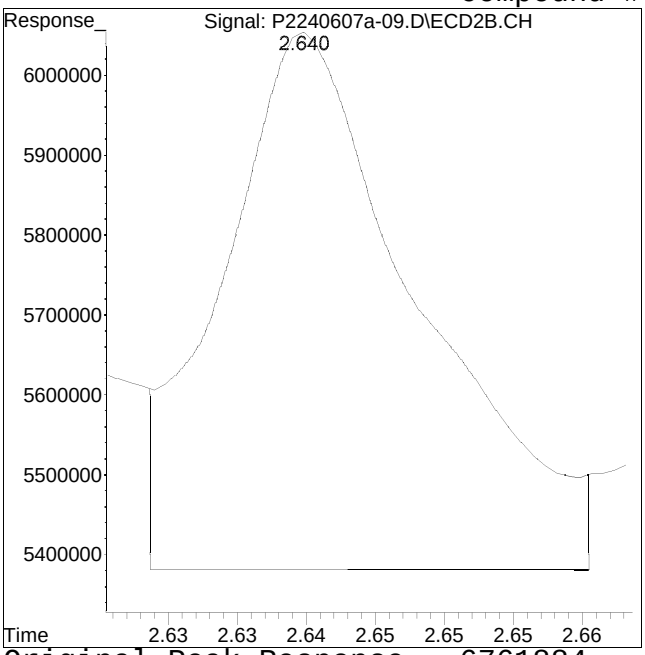


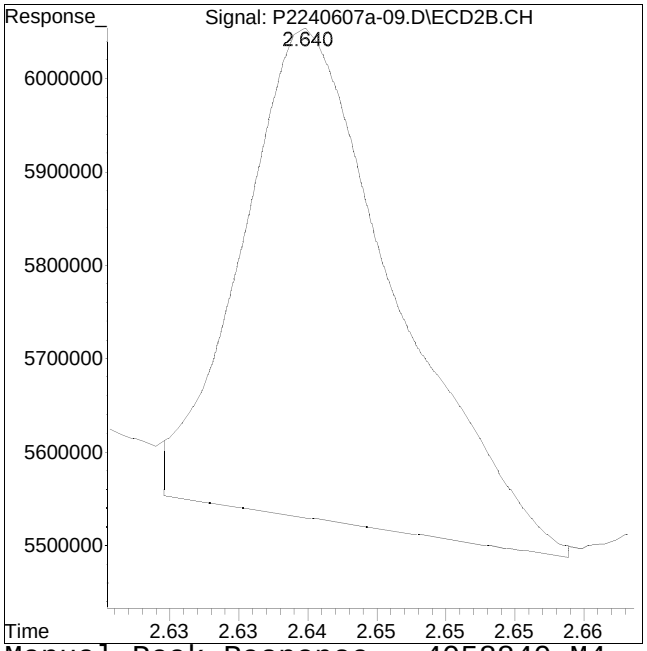
Original Peak Response = 11008343 Manual Peak Response = 7555810 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-09.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:51 Instrument : Pest 2
Sample : L2430219-03,42,, Quant Date : 6/7/2024 9:35 am

Compound #69: 1254-1 #2



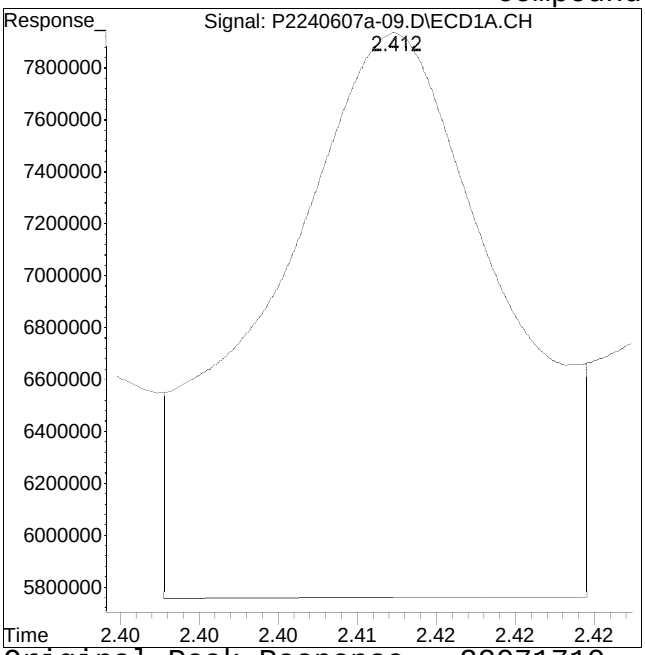


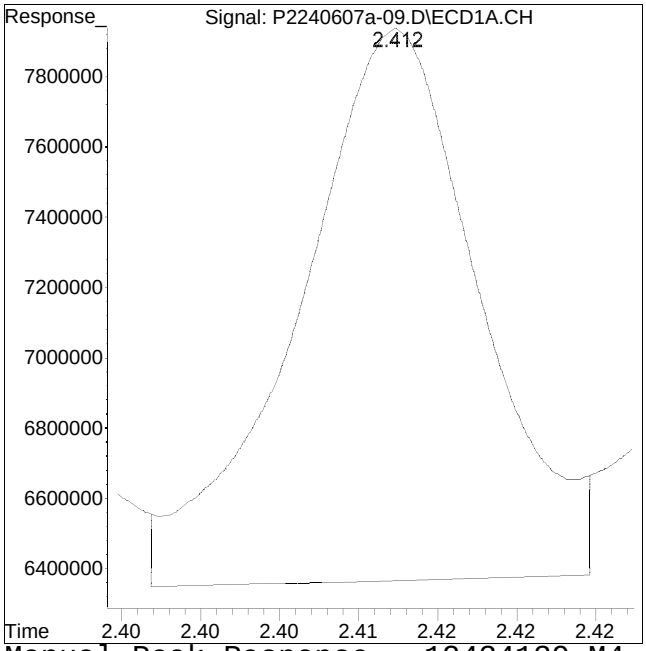
Original Peak Response = 6761884 Manual Peak Response = 4058840 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-09.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:51 Instrument : Pest 2
Sample : L2430219-03,42,, Quant Date : 6/7/2024 9:35 am

Compound #19: 1254-2



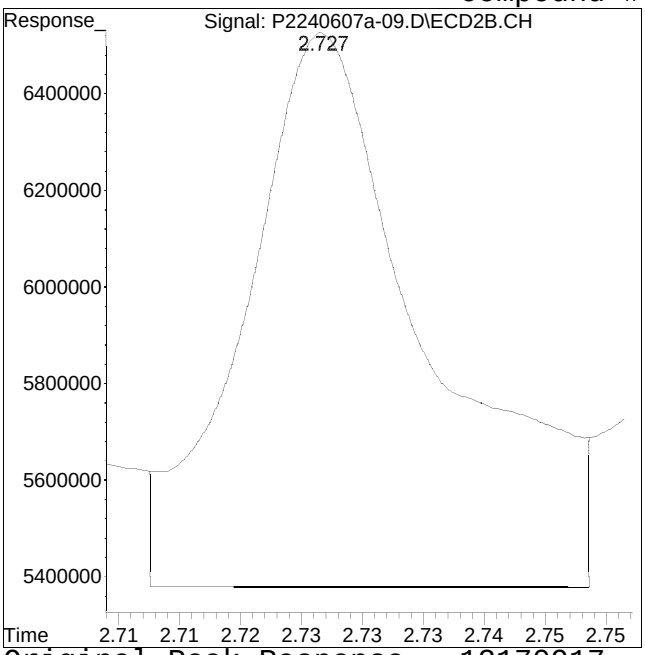


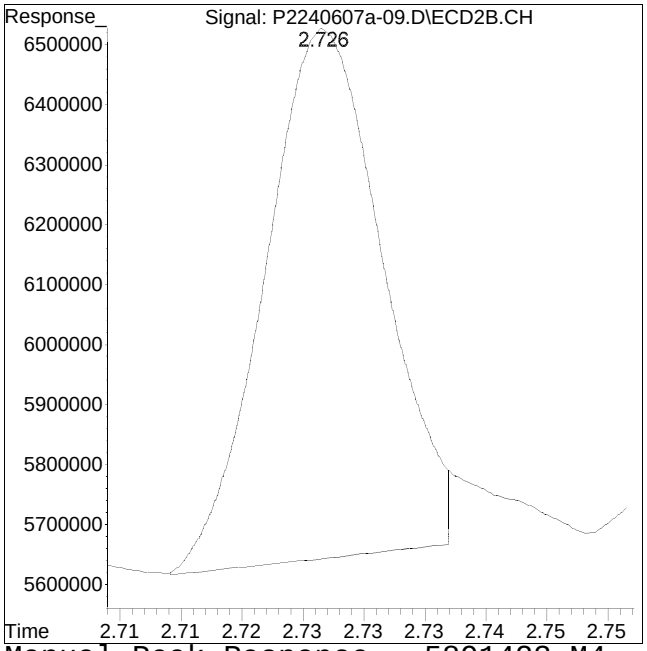
Original Peak Response = 22071710 Manual Peak Response = 12434139 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-09.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:51 Instrument : Pest 2
Sample : L2430219-03,42,, Quant Date : 6/7/2024 9:35 am

Compound #70: 1254-2 #2



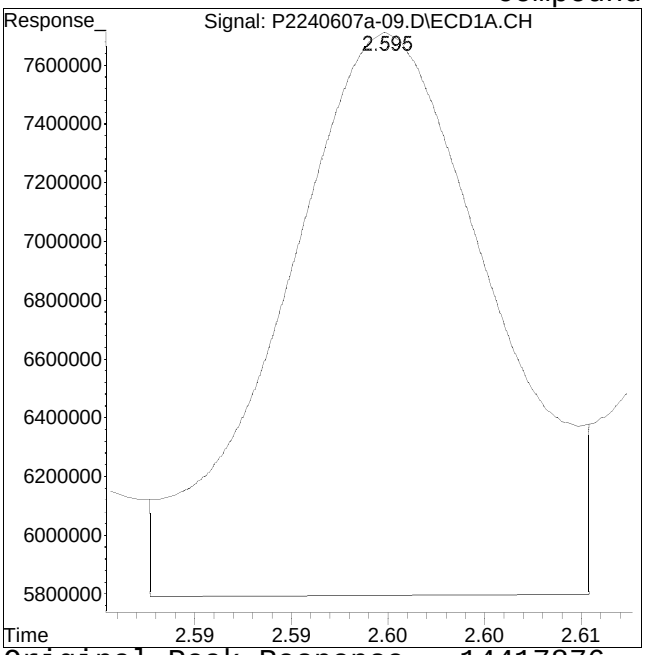


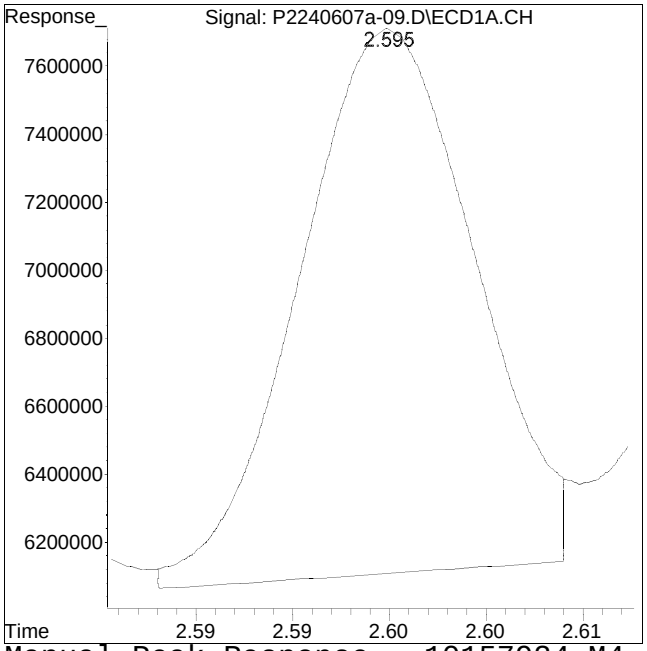
Original Peak Response = 12170917 Manual Peak Response = 5891423 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-09.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:51 Instrument : Pest 2
Sample : L2430219-03,42,, Quant Date : 6/7/2024 9:35 am

Compound #20: 1254-3



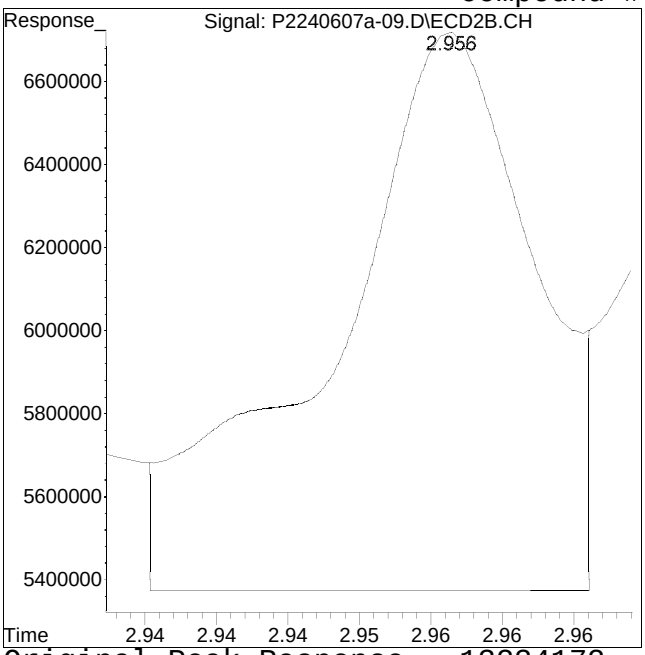


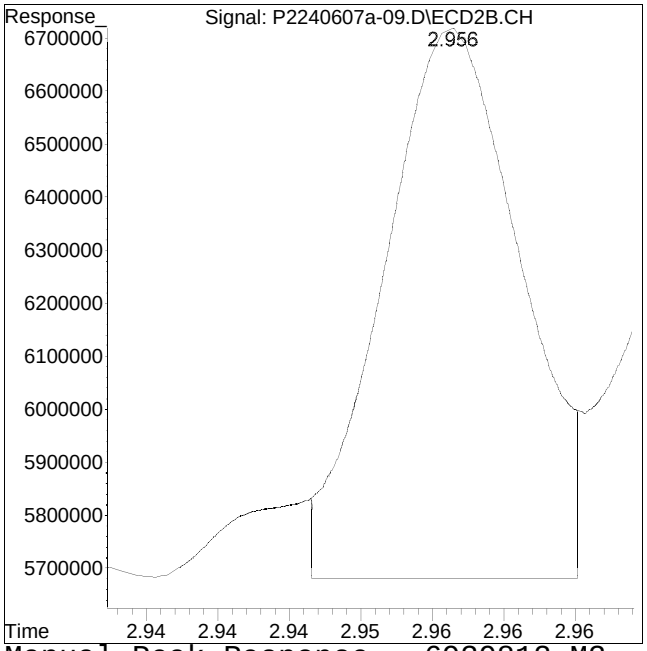
Original Peak Response = 14417876 Manual Peak Response = 10157924 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-09.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:51 Instrument : Pest 2
Sample : L2430219-03,42,, Quant Date : 6/7/2024 9:35 am

Compound #71: 1254-3 #2



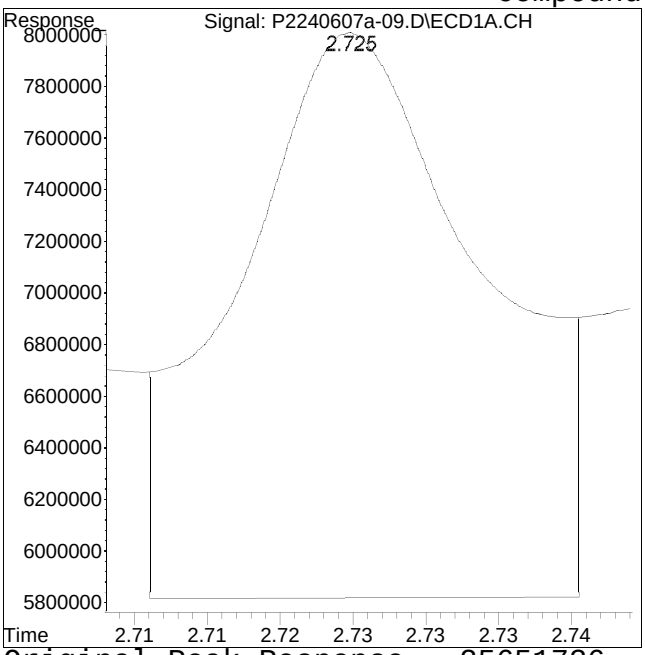


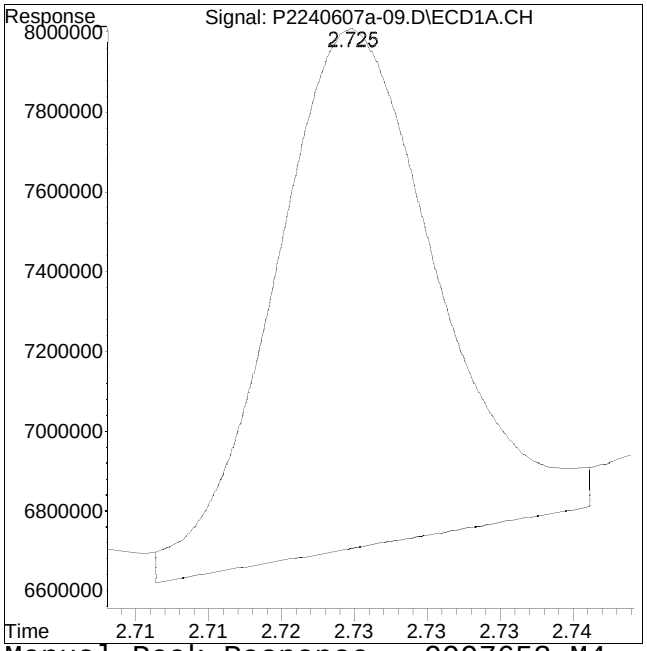
Original Peak Response = 13234172 Manual Peak Response = 6939812 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-09.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:51 Instrument : Pest 2
Sample : L2430219-03,42,, Quant Date : 6/7/2024 9:35 am

Compound #21: 1254-4



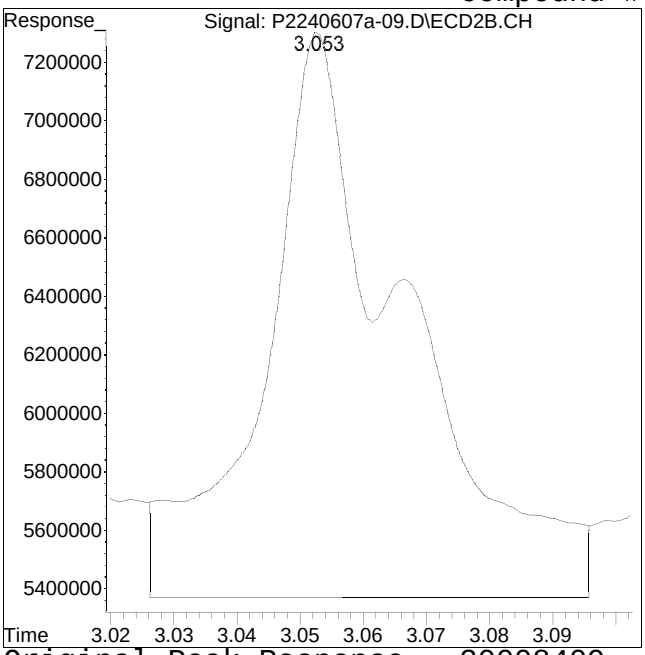


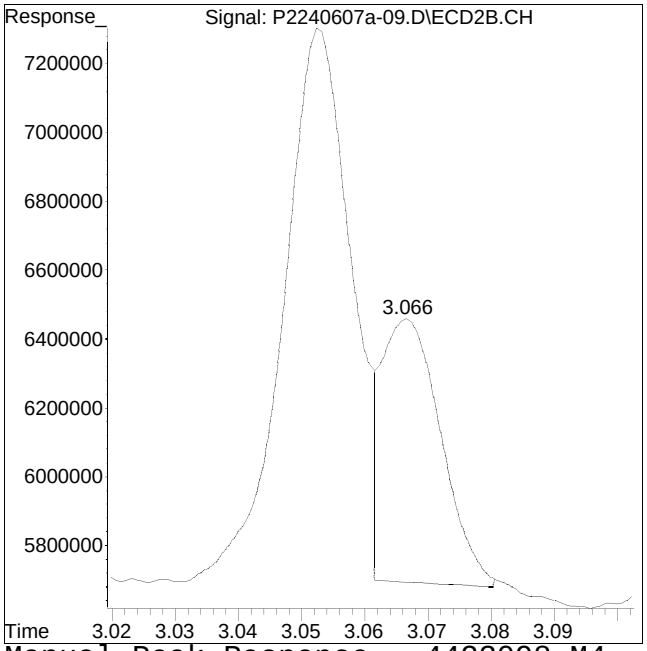
Original Peak Response = 25651736 Manual Peak Response = 9997653 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-09.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 8:51 Instrument : Pest 2
Sample : L2430219-03,42,, Quant Date : 6/7/2024 9:35 am

Compound #72: 1254-4 #2





Original Peak Response = 30008409 Manual Peak Response = 4423098 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 9:00
Operator : pest2:mhg
Sample : L2430219-04,42,, p
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 09:35:43 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.157	1.227	410.0E6	262.9E6	25.000M3	25.000M4
	Standard Area 1 : #1 = 477774528				Recovery =	85.81%	
	Standard Area 1 : #2 = 323810098				Recovery =	81.19%	
14) i	2154_1br2nb	1.157	1.227	410.0E6	262.9E6	25.000M3	25.000M4
23) i	4268_1br2nb	1.157	1.227	410.0E6	262.9E6	25.000M3	25.000M4
34) i	1248_1br2nb	1.157	1.227	410.0E6	262.9E6	25.000M3	25.000M4
40) i	3262_1br2nb	1.157	1.227	410.0E6	262.9E6	25.000M3	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.442	1.601	383.9E6	226.3E6	17.861M4	17.470
	Spiked Amount 20.000	Range 30 - 150			Recovery =	89.31%	87.35%
3) s	Decachlorobi	4.015	4.527	276.9E6	151.5E6	19.933	24.831
	Spiked Amount 20.000	Range 30 - 150			Recovery =	99.67%	124.15%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
Average 1016-1						0.000	0.000
9) l2	1260-1	2.680	3.054	17444597	12639097	16.479M3	22.272M2
10) l2	1260-2	2.810	3.155	31582964	16695566	19.793M2	25.710M2
11) l2	1260-3	3.126	3.547	9686792	9327835	9.771M4	18.524M4

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 9:00
Operator : pest2:mhg
Sample : L2430219-04,42,, p
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 09:35:43 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12) l2 1260-4	3.281	3.677	30485331	20814854	14.352M4	20.564M4
13) l2 1260-5	3.429	3.879	25597205	15666198	17.194M1	22.575M3
Sum 1260-1			114.8E6	75143550	77.590	109.645
Average 1260-1					15.518	21.929
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	2.300	2.641	8160190	4330822	9.908M4	8.950M4
19) l4 1254-2	2.413	2.728	13926050	6846528	9.485M4	12.406M4
20) l4 1254-3	2.596	2.958	11888865	8301911	7.624M4	10.187M4
21) l4 1254-4	2.726	3.068	10707900	5505550	9.812M4	10.925M4
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			44683004	24984811	36.828	42.467
Average 1254-1					9.207	10.617
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 9:00
Operator : pest2:mhg
Sample : L2430219-04,42,, p
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 09:35:43 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

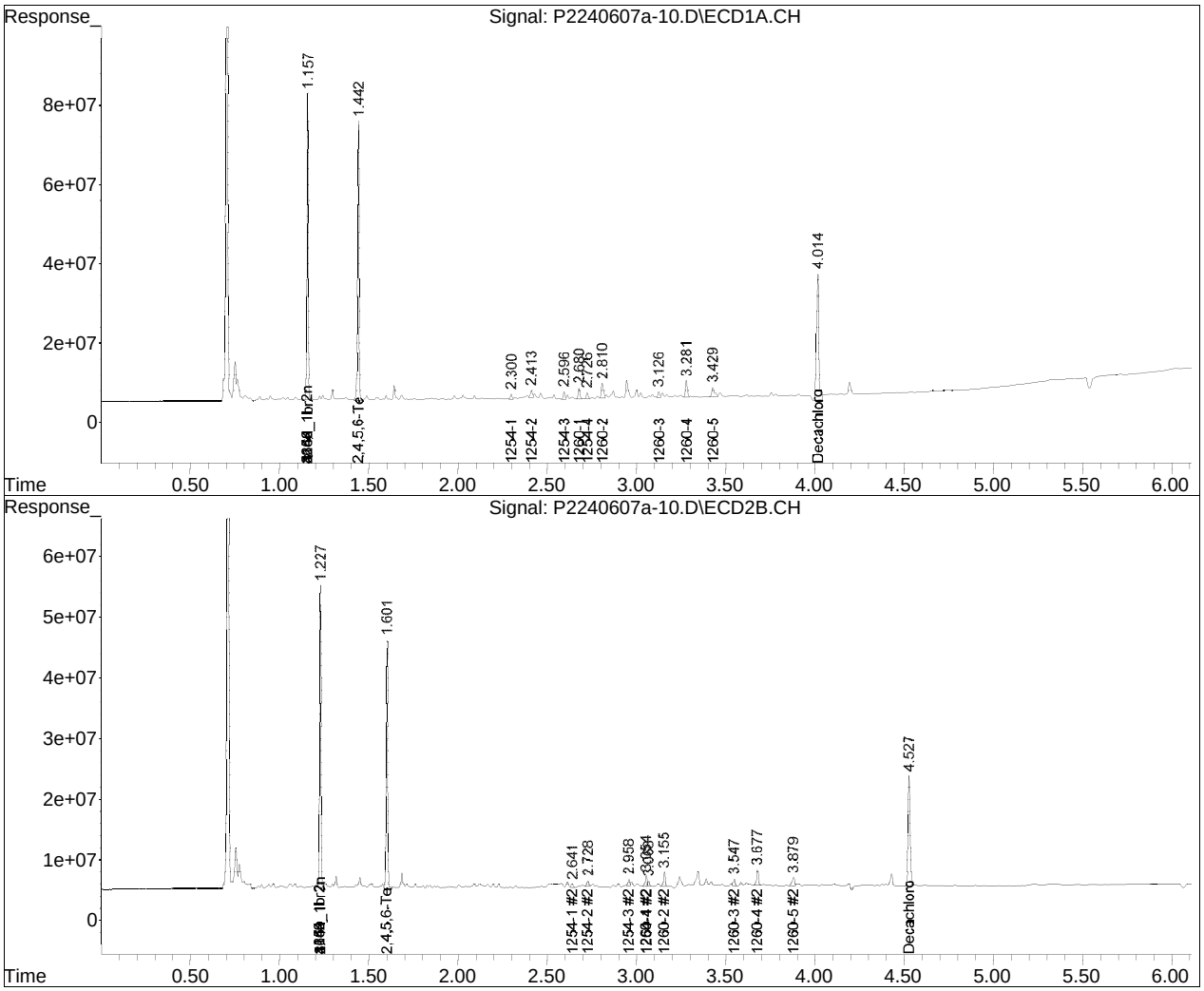
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240607a-02.D•

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 9:00
Operator : pest2:mhg
Sample : L2430219-04,42,, p
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 09:35:43 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

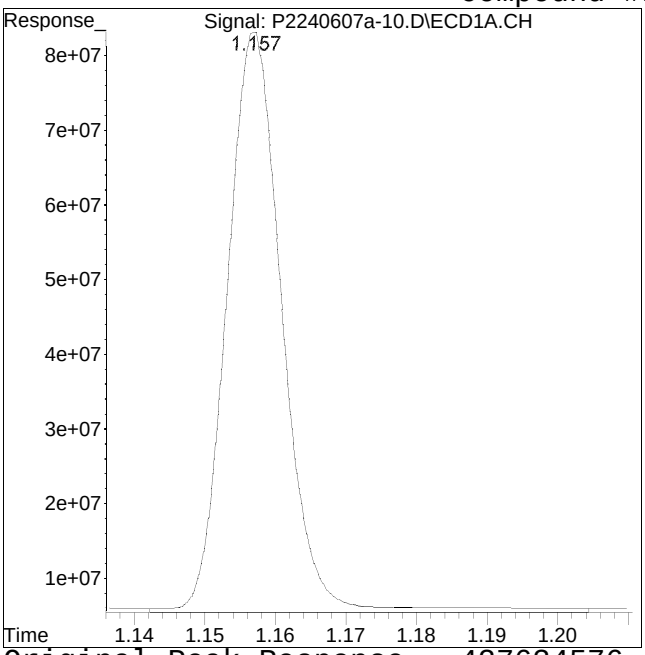
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

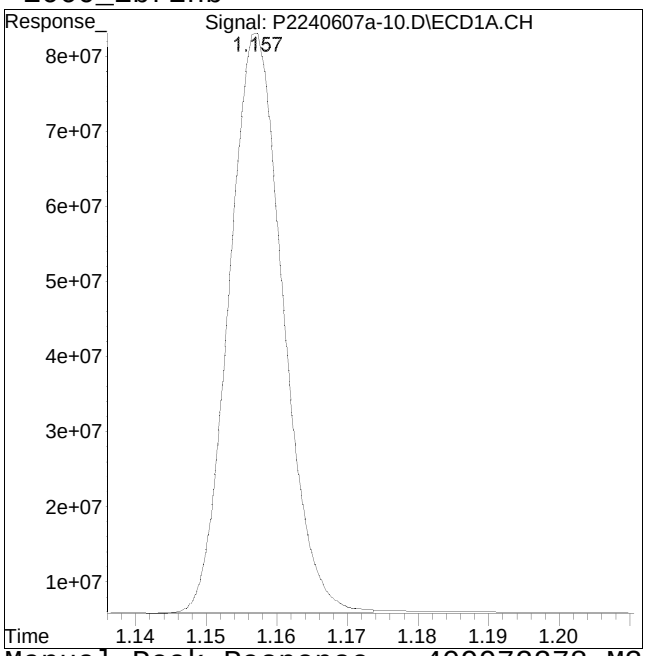


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-10.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:00 Instrument : Pest 2
Sample : L2430219-04,42,, p Quant Date : 6/7/2024 9:35 am

Compound #1: 1660_1br2nb



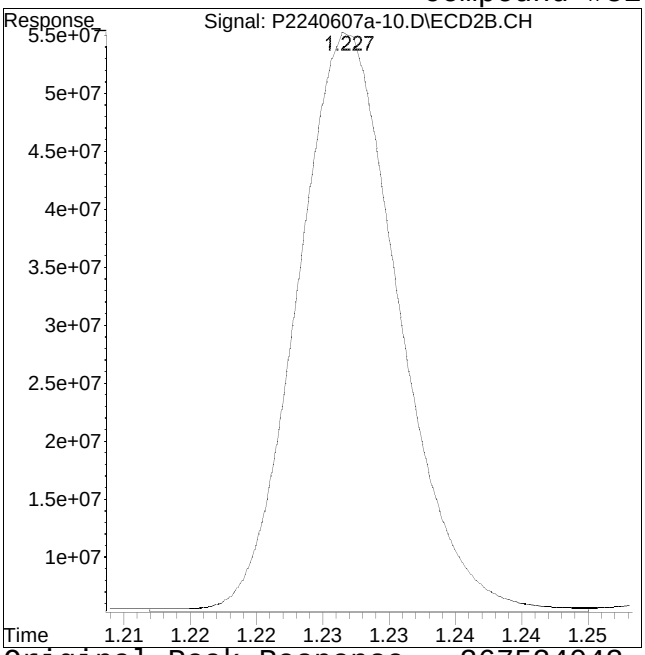


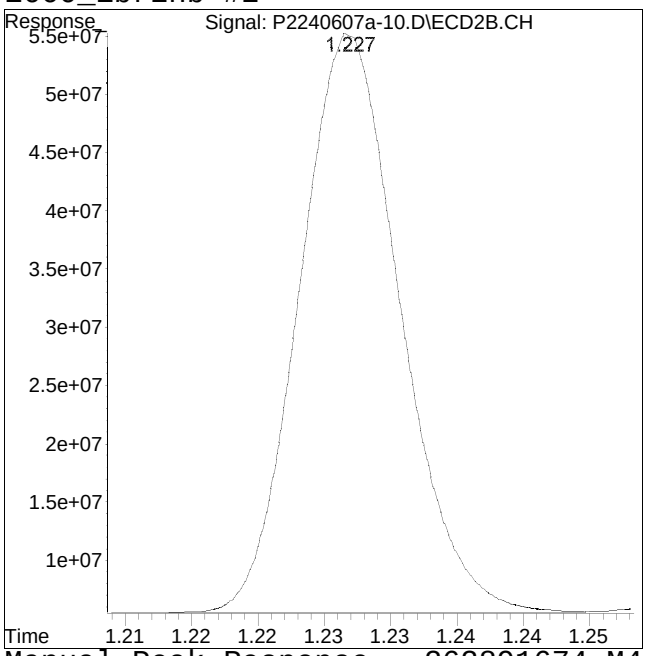
Original Peak Response = 427634576 Manual Peak Response = 409972278 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-10.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:00 Instrument : Pest 2
Sample : L2430219-04,42,, p Quant Date : 6/7/2024 9:35 am

Compound #52: 1660_1br2nb #2



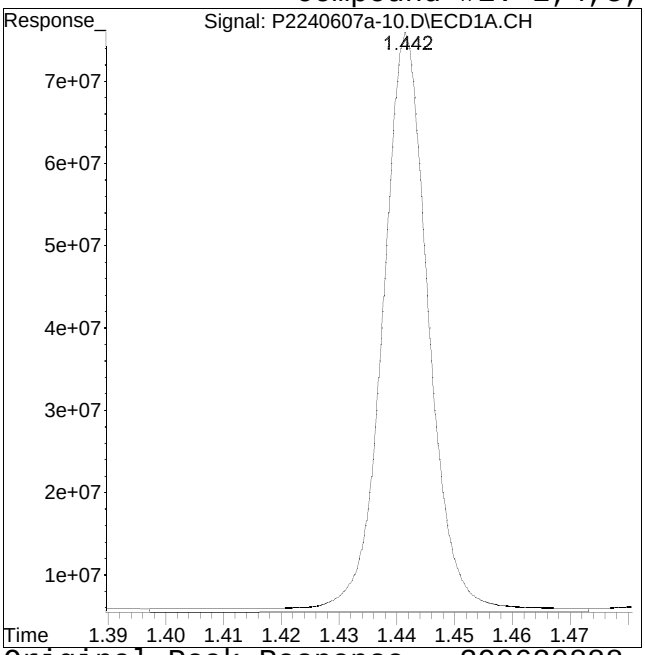


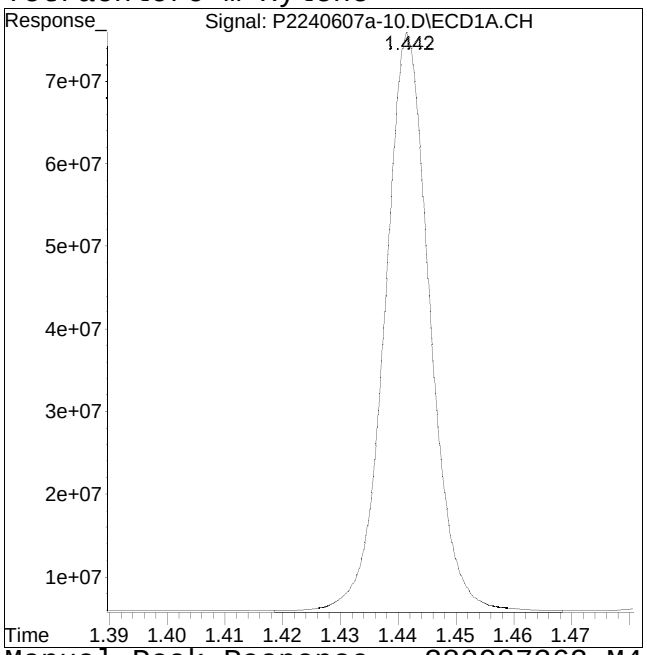
Original Peak Response = 267524043 Manual Peak Response = 262891674 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-10.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:00 Instrument : Pest 2
Sample : L2430219-04,42,, p Quant Date : 6/7/2024 9:35 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



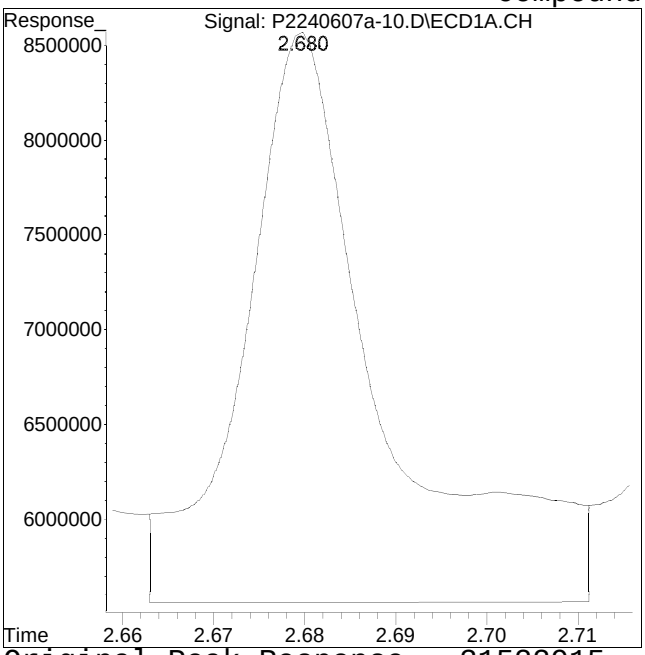


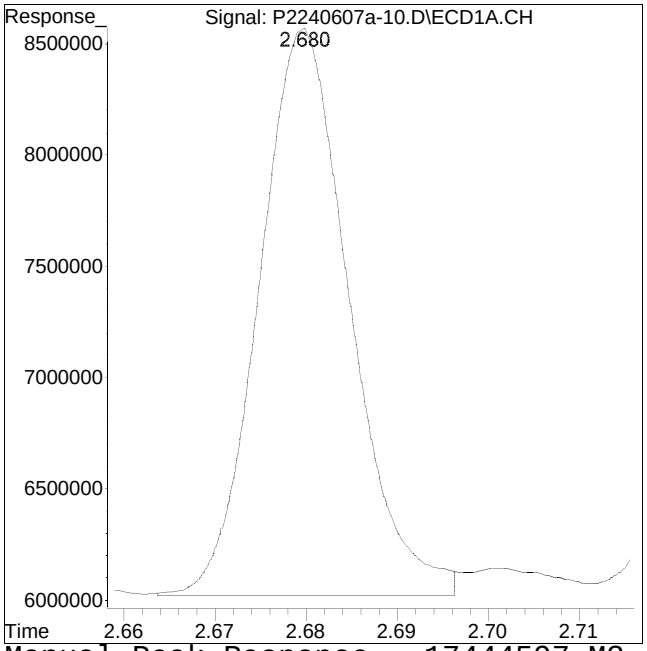
Original Peak Response = 399620888 Manual Peak Response = 383937362 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-10.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:00 Instrument : Pest 2
Sample : L2430219-04,42,, p Quant Date : 6/7/2024 9:35 am

Compound #9: 1260-1



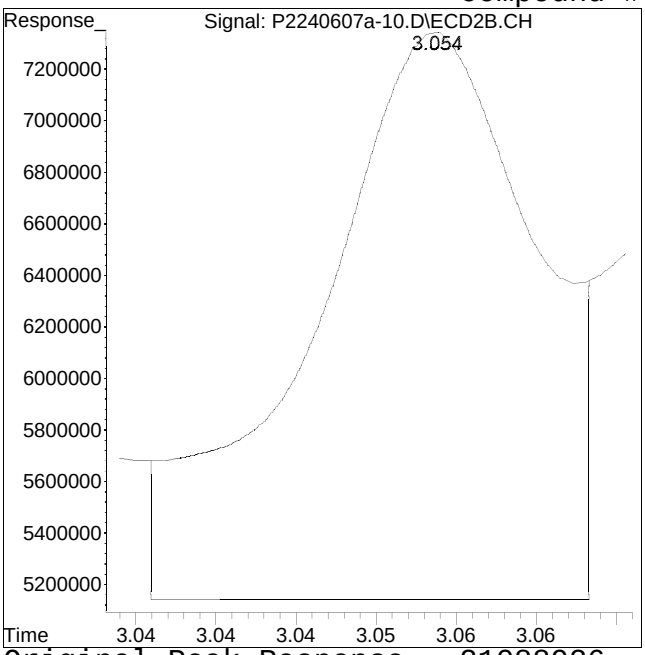


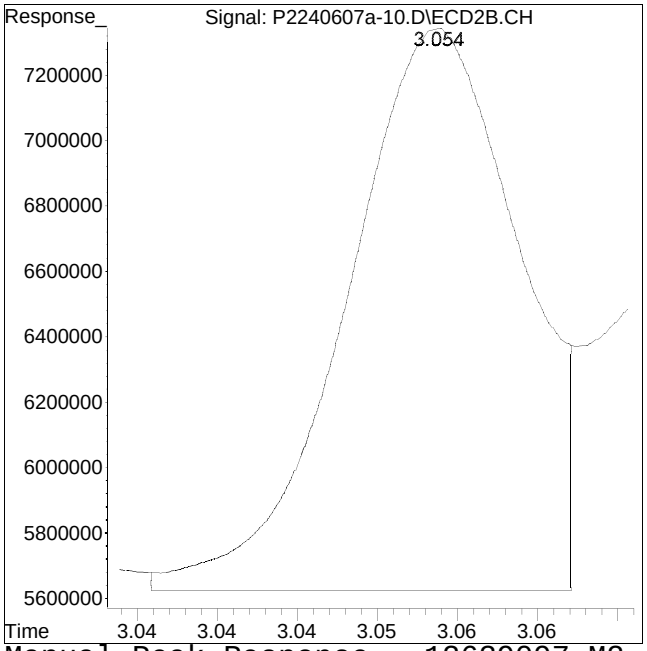
Original Peak Response = 31522915 Manual Peak Response = 17444597 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-10.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:00 Instrument : Pest 2
Sample : L2430219-04,42,, p Quant Date : 6/7/2024 9:35 am

Compound #60: 1260-1 #2



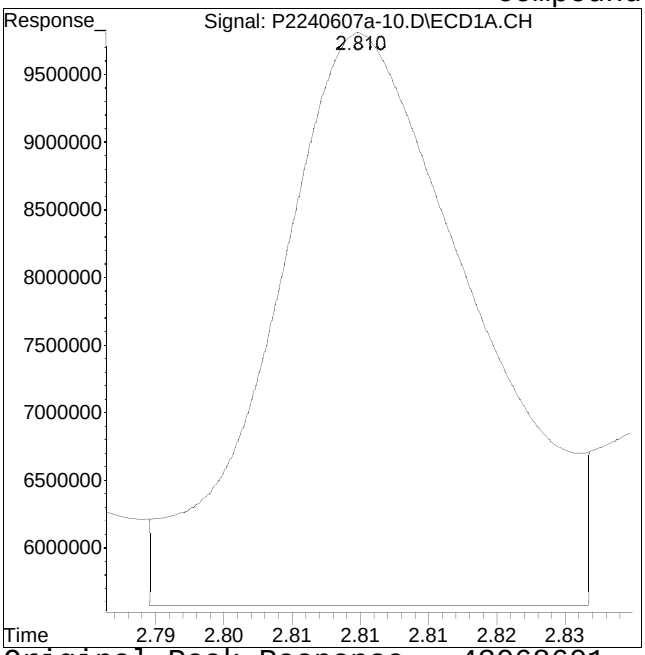


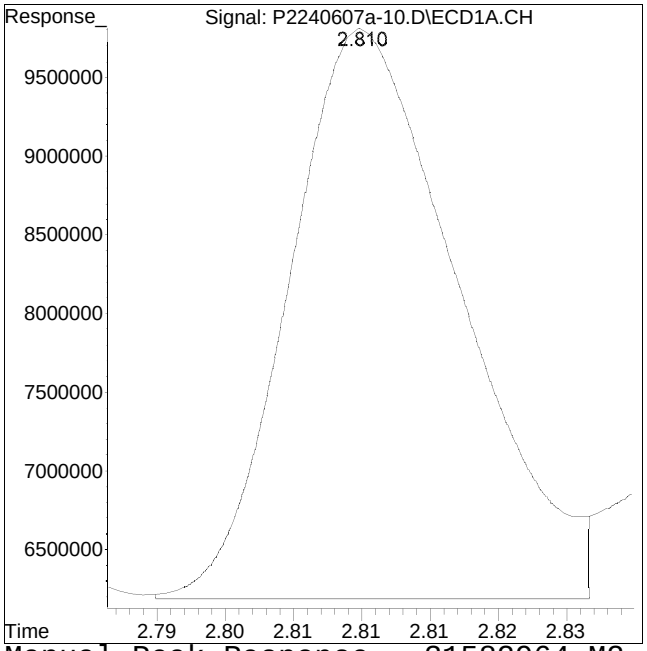
Original Peak Response = 21088926 Manual Peak Response = 12639097 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-10.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:00 Instrument : Pest 2
Sample : L2430219-04,42,, p Quant Date : 6/7/2024 9:35 am

Compound #10: 1260-2



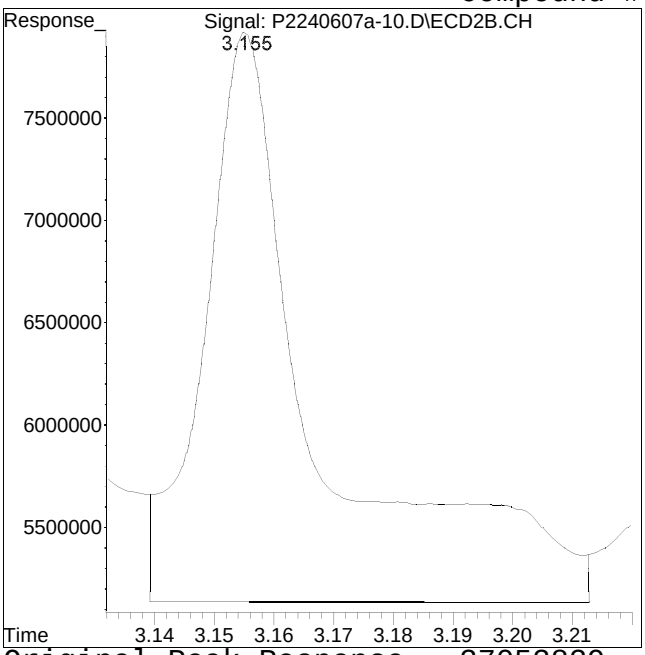


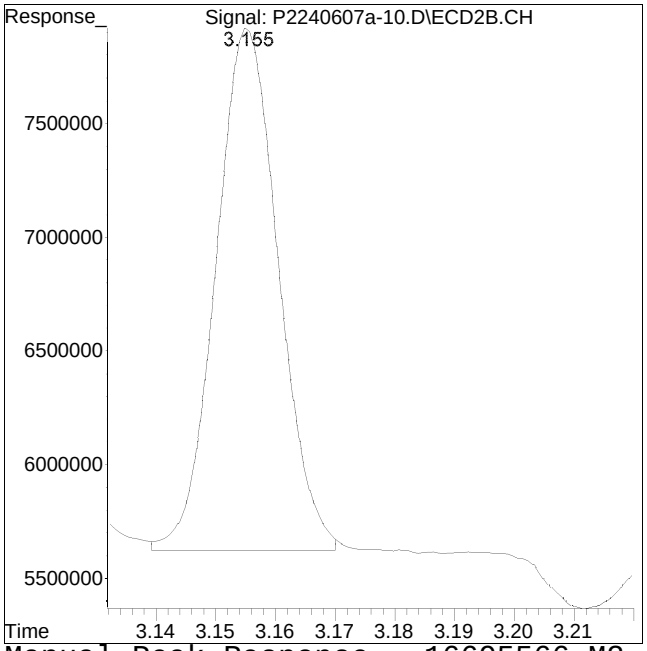
Original Peak Response = 43068601 Manual Peak Response = 31582964 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-10.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:00 Instrument : Pest 2
Sample : L2430219-04,42,, p Quant Date : 6/7/2024 9:35 am

Compound #61: 1260-2 #2



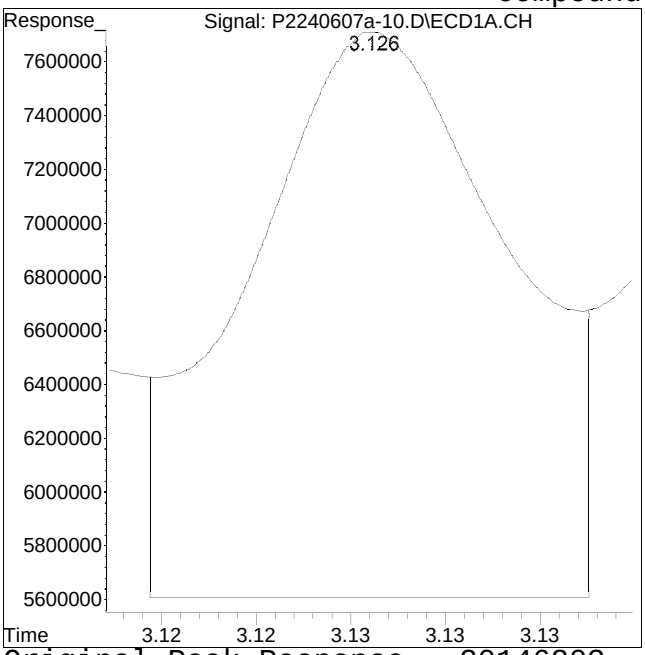


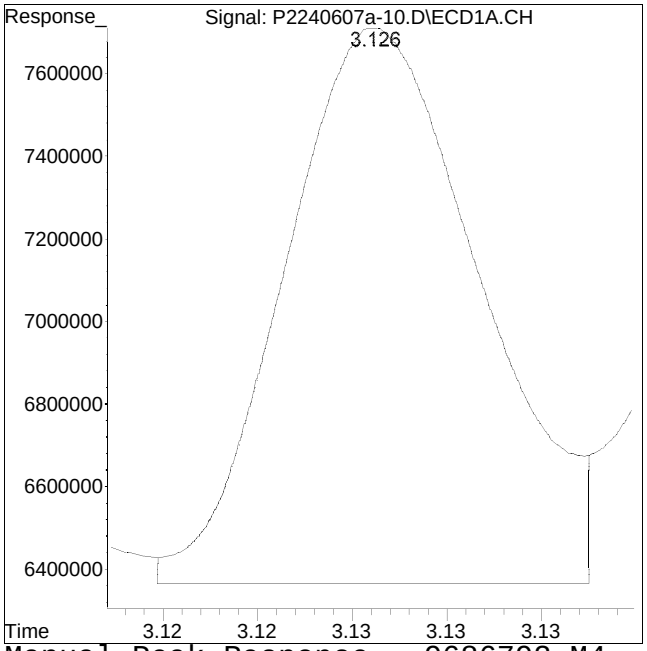
Original Peak Response = 37053839 Manual Peak Response = 16695566 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-10.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:00 Instrument : Pest 2
Sample : L2430219-04,42,, p Quant Date : 6/7/2024 9:35 am

Compound #11: 1260-3



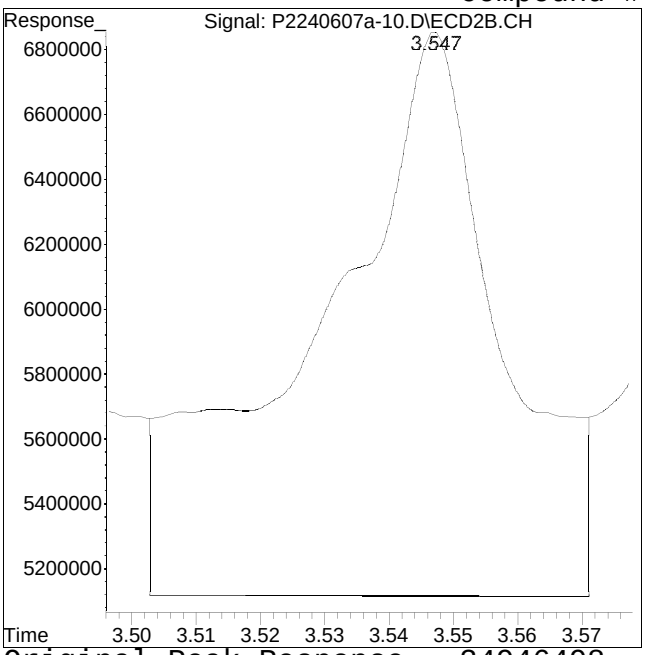


Original Peak Response = 20146203 Manual Peak Response = 9686792 M4
M4 = Poor automated baseline construction.

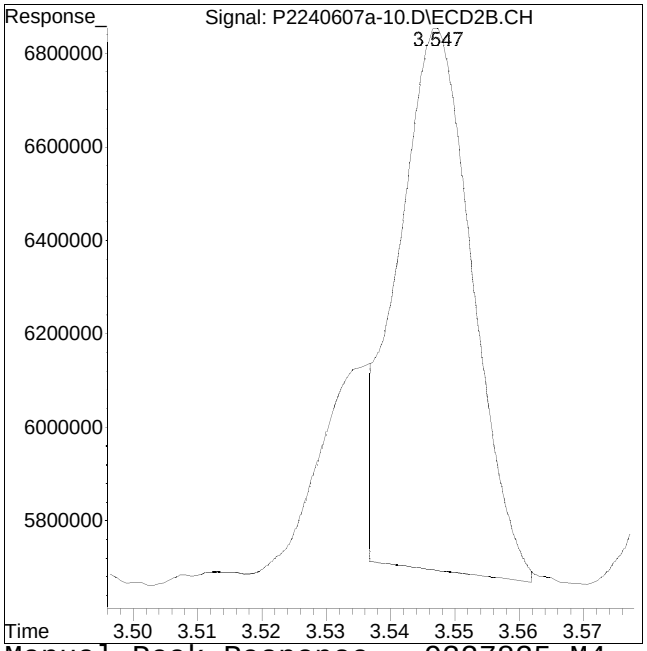
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-10.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:00 Instrument : Pest 2
Sample : L2430219-04,42,, p Quant Date : 6/7/2024 9:35 am

Compound #62: 1260-3 #2



Original Peak Response = 34946498



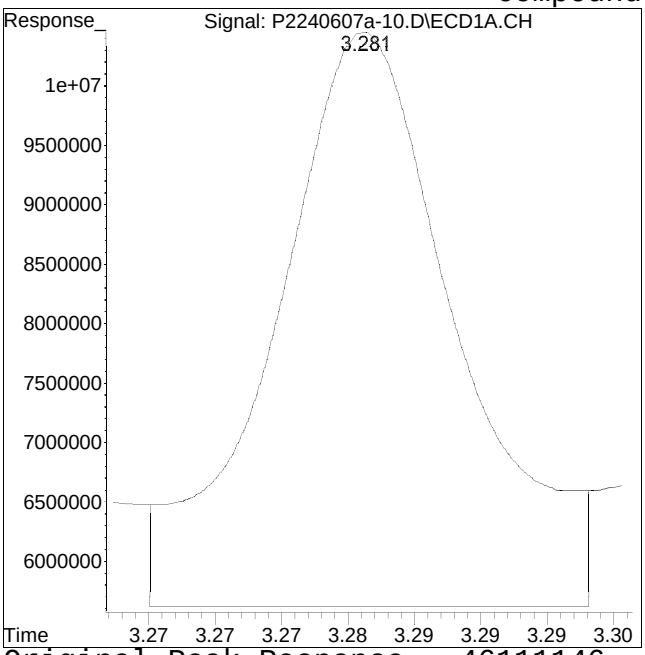
Manual Peak Response = 9327835 M4

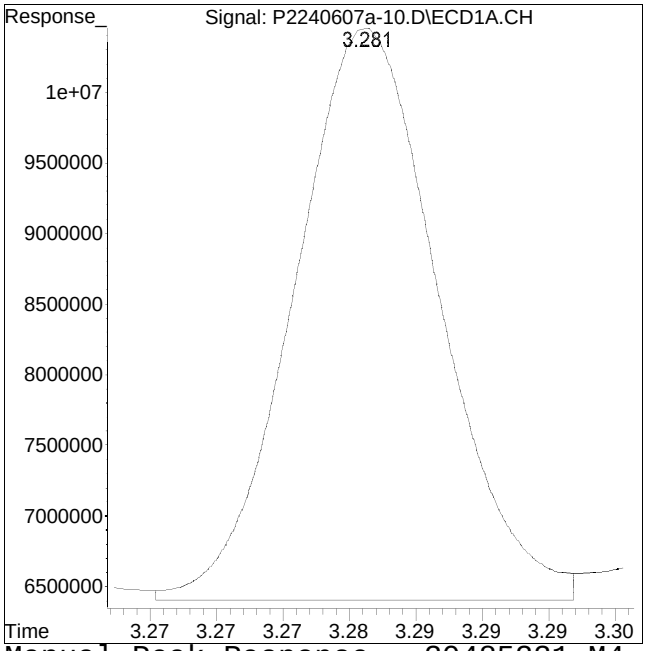
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-10.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:00 Instrument : Pest 2
Sample : L2430219-04,42,, p Quant Date : 6/7/2024 9:35 am

Compound #12: 1260-4



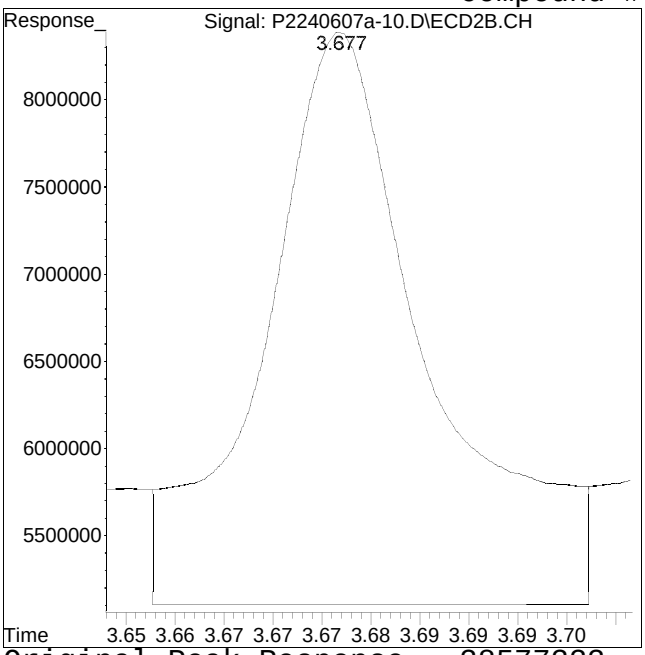


Original Peak Response = 46111146 Manual Peak Response = 30485331 M4
M4 = Poor automated baseline construction.

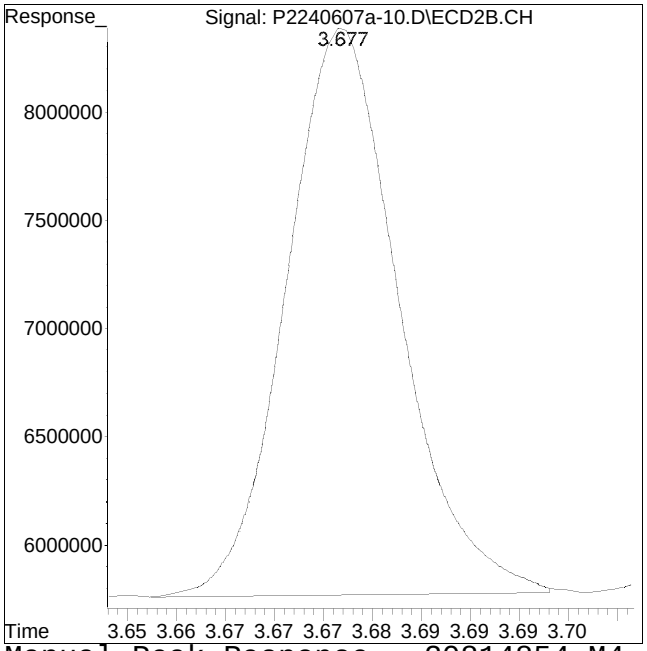
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-10.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:00 Instrument : Pest 2
Sample : L2430219-04,42,, p Quant Date : 6/7/2024 9:35 am

Compound #63: 1260-4 #2



Original Peak Response = 38577333



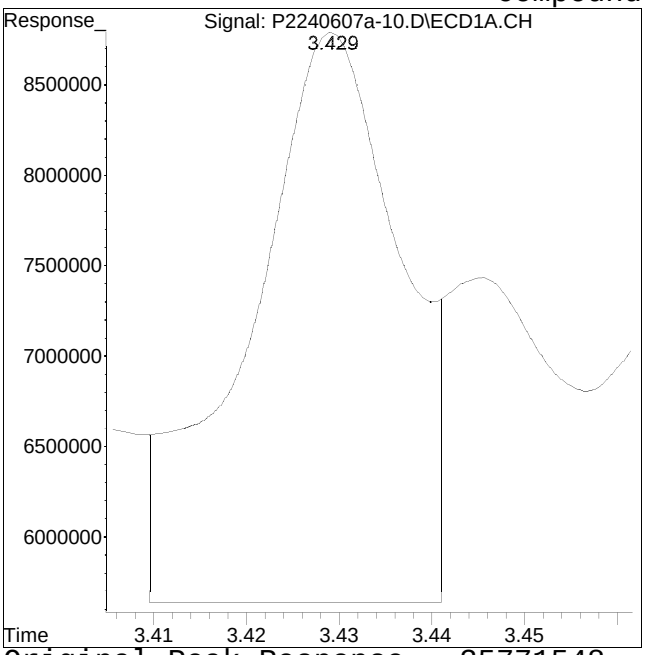
Manual Peak Response = 20814854 M4

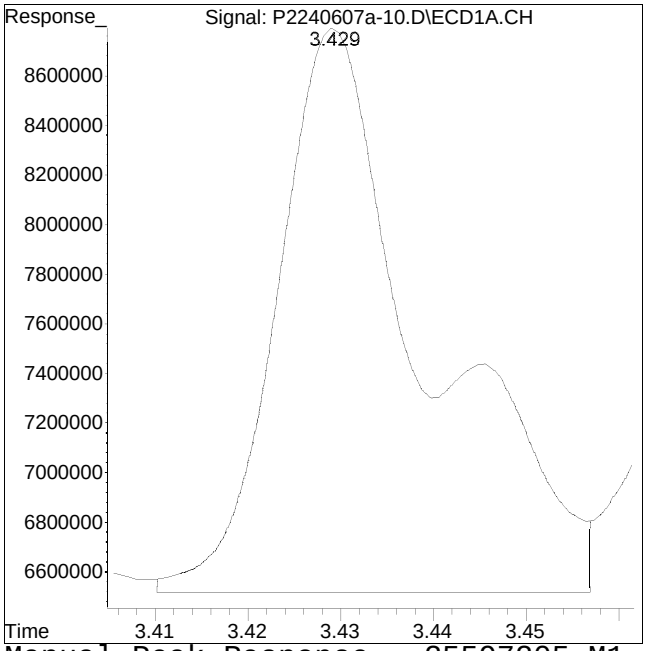
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-10.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:00 Instrument : Pest 2
Sample : L2430219-04,42,, p Quant Date : 6/7/2024 9:35 am

Compound #13: 1260-5



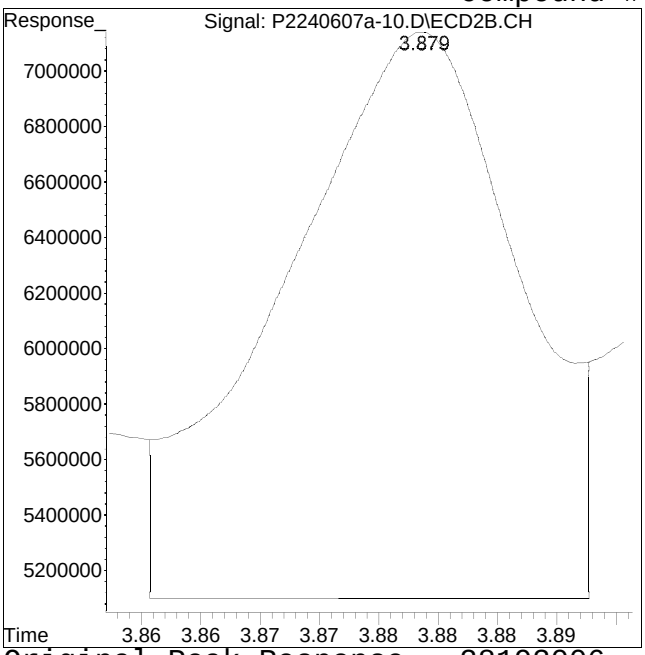


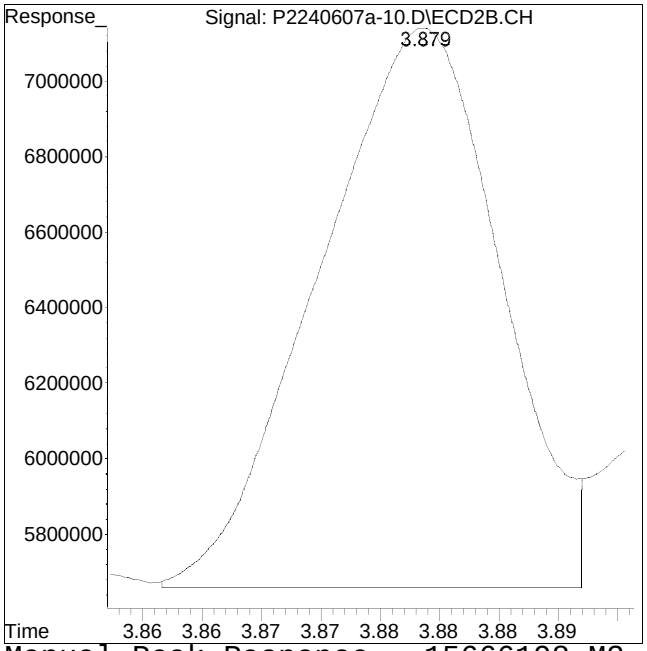
Original Peak Response = 35771548 Manual Peak Response = 25597205 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-10.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:00 Instrument : Pest 2
Sample : L2430219-04,42,, p Quant Date : 6/7/2024 9:35 am

Compound #64: 1260-5 #2



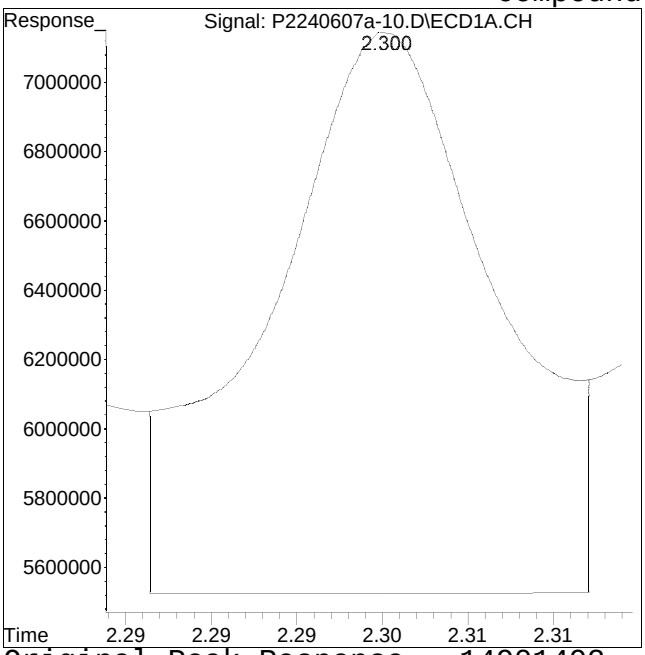


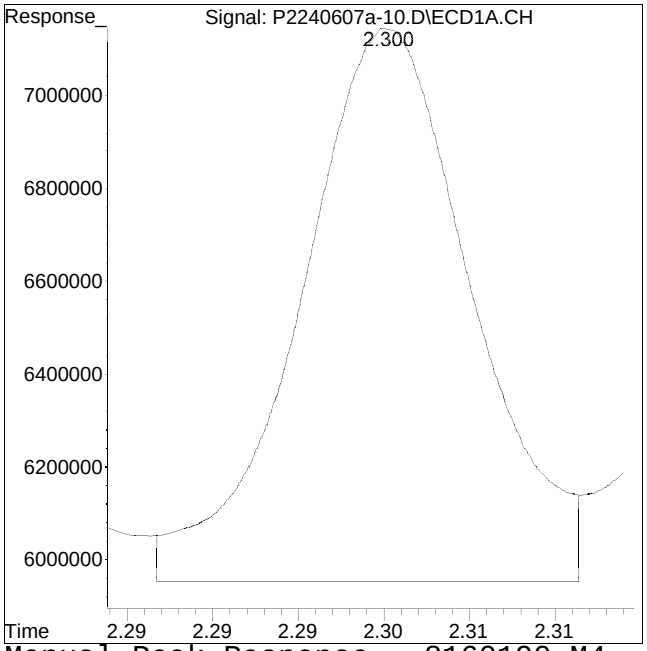
Original Peak Response = 28193006 Manual Peak Response = 15666198 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-10.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:00 Instrument : Pest 2
Sample : L2430219-04,42,, p Quant Date : 6/7/2024 9:35 am

Compound #18: 1254-1



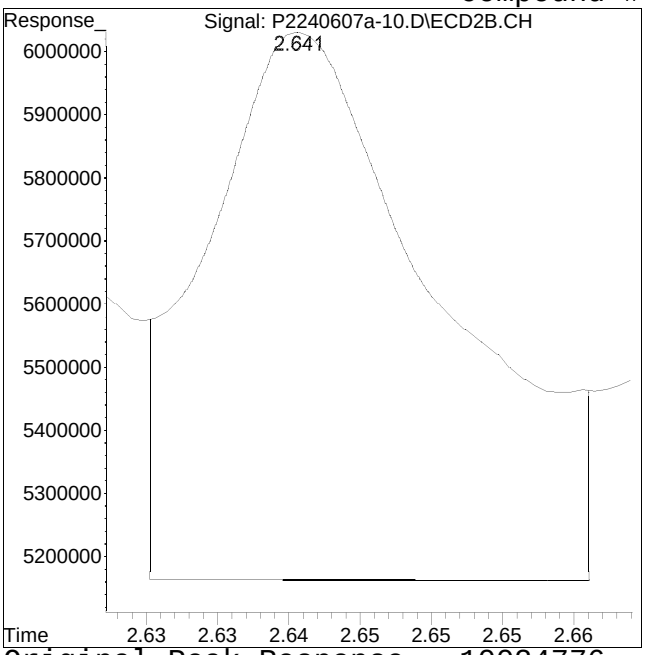


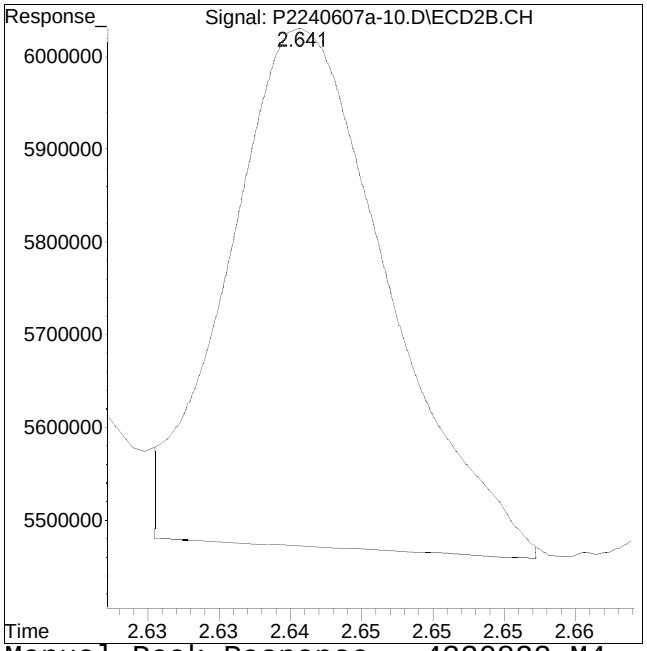
Original Peak Response = 14901492 Manual Peak Response = 8160190 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-10.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:00 Instrument : Pest 2
Sample : L2430219-04,42,, p Quant Date : 6/7/2024 9:35 am

Compound #69: 1254-1 #2



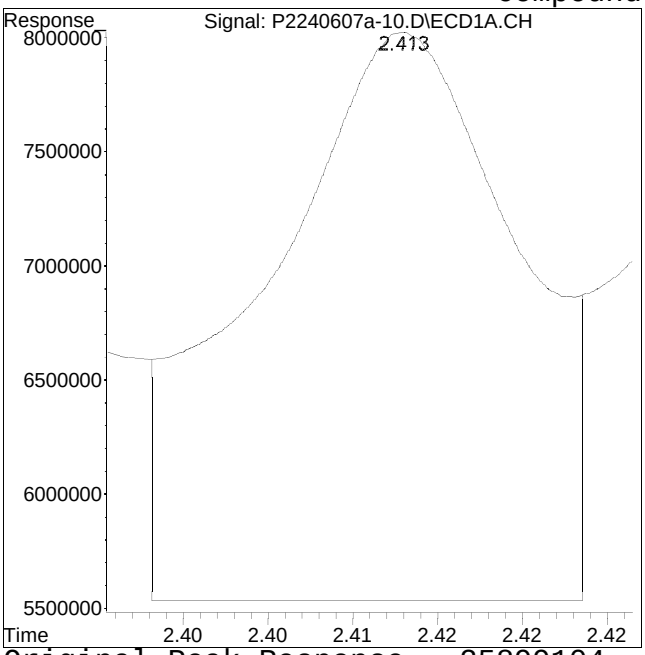


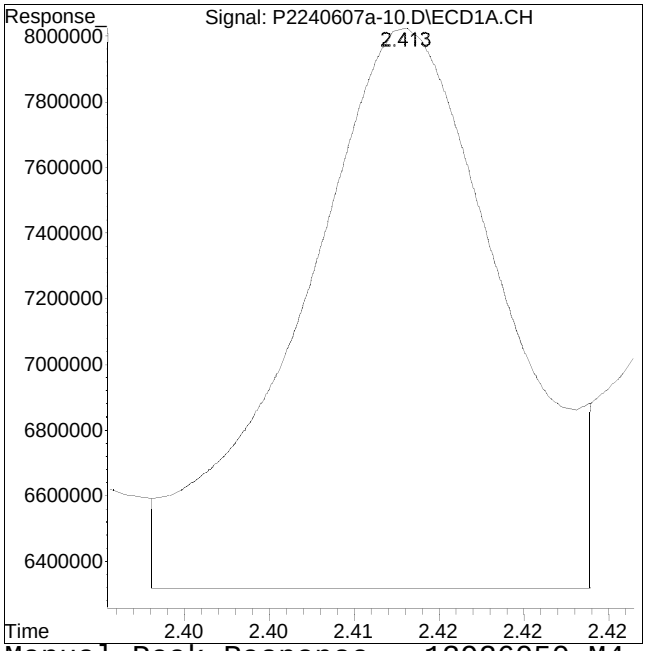
Original Peak Response = 10024776 Manual Peak Response = 4330822 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-10.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:00 Instrument : Pest 2
Sample : L2430219-04,42,, p Quant Date : 6/7/2024 9:35 am

Compound #19: 1254-2



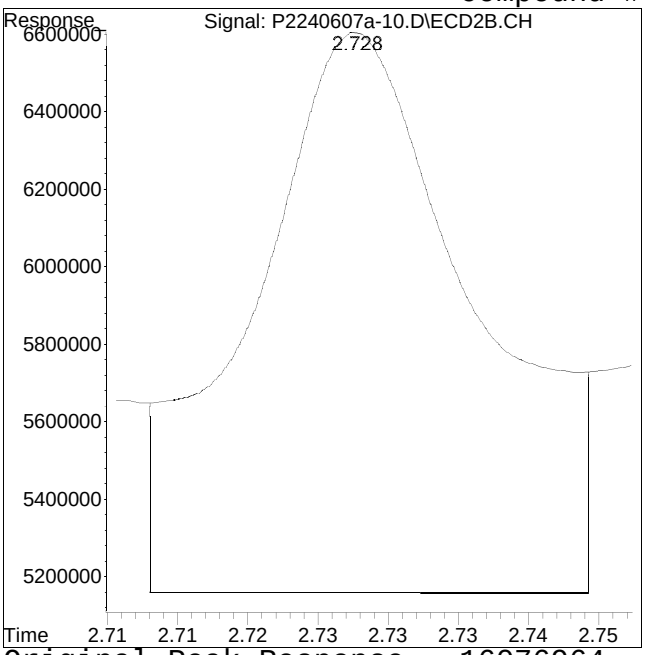


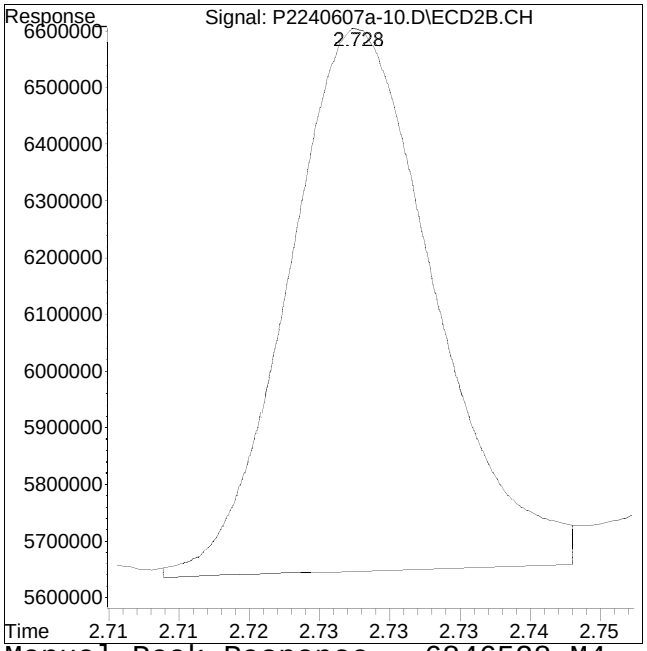
Original Peak Response = 25899104 Manual Peak Response = 13926050 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-10.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:00 Instrument : Pest 2
Sample : L2430219-04,42,, p Quant Date : 6/7/2024 9:35 am

Compound #70: 1254-2 #2



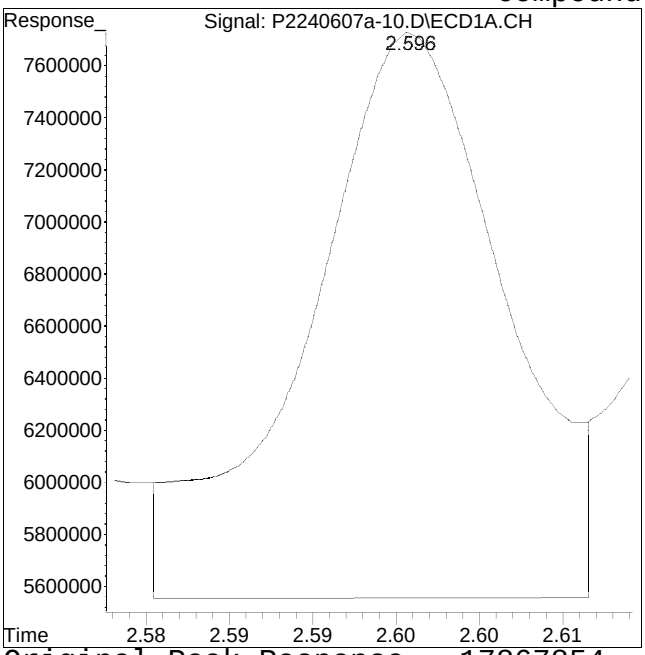


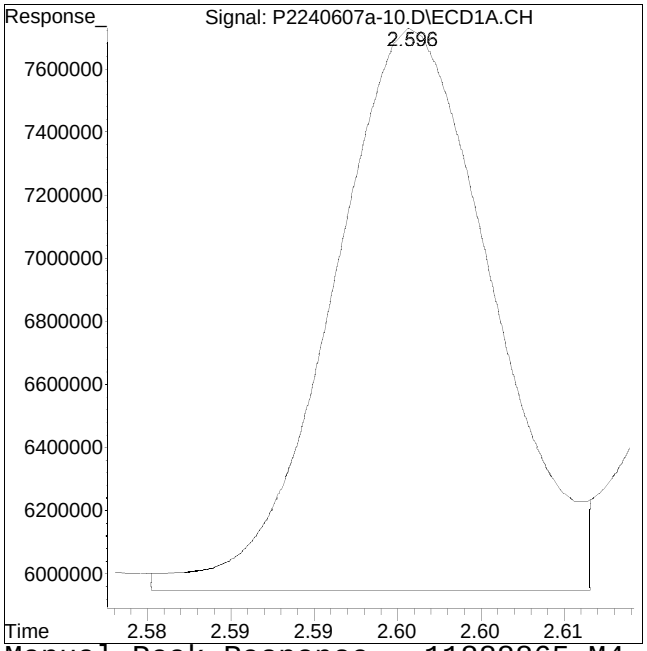
Original Peak Response = 16076964 Manual Peak Response = 6846528 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-10.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:00 Instrument : Pest 2
Sample : L2430219-04,42,, p Quant Date : 6/7/2024 9:35 am

Compound #20: 1254-3



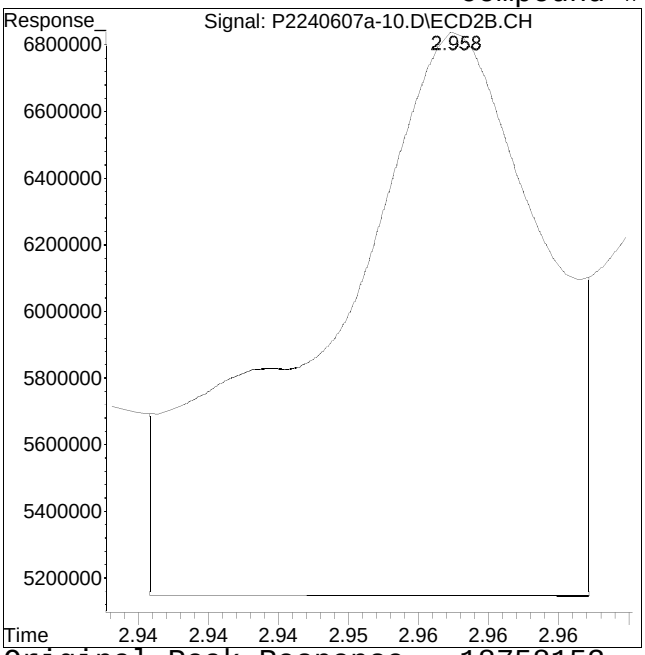


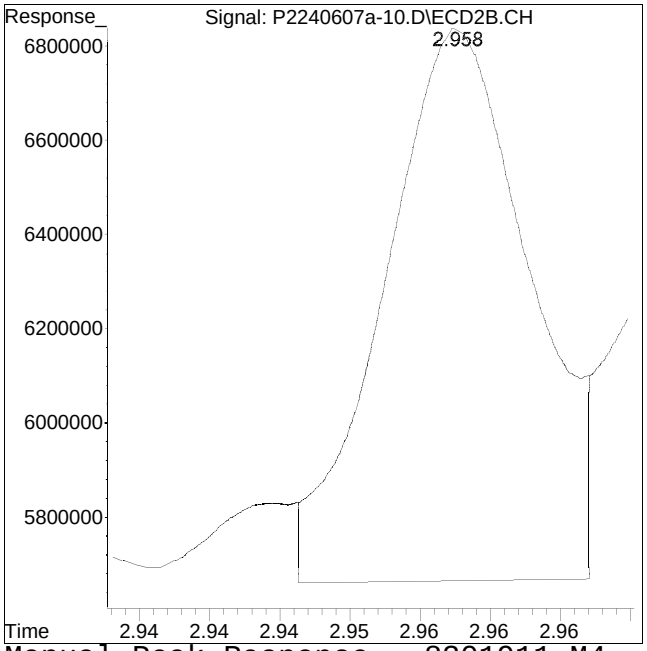
Original Peak Response = 17867854 Manual Peak Response = 11888865 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-10.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:00 Instrument : Pest 2
Sample : L2430219-04,42,, p Quant Date : 6/7/2024 9:35 am

Compound #71: 1254-3 #2



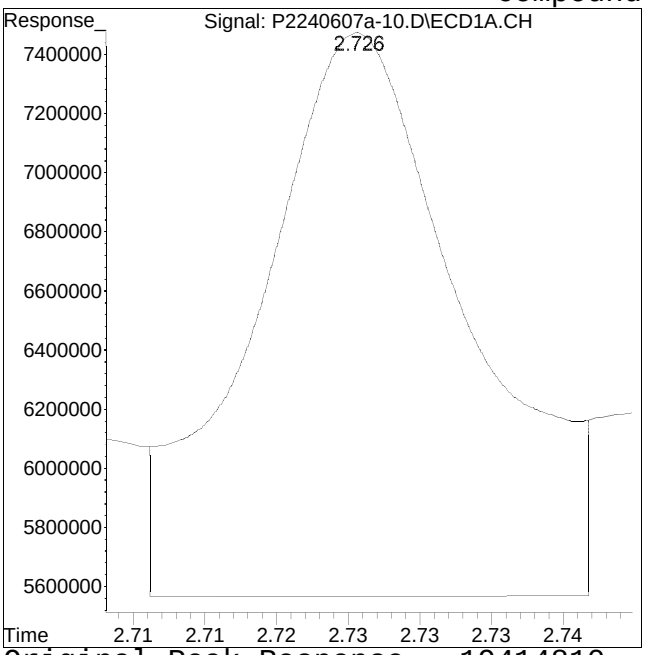


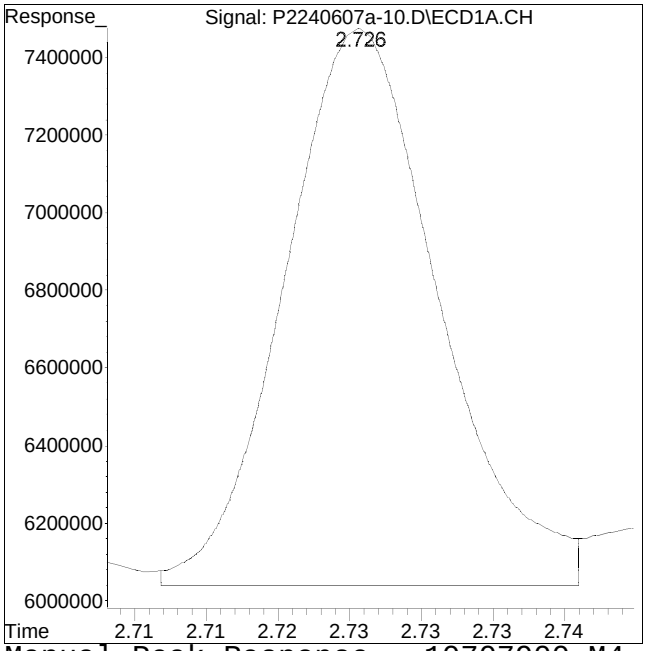
Original Peak Response = 18758153 Manual Peak Response = 8301911 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-10.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:00 Instrument : Pest 2
Sample : L2430219-04,42,, p Quant Date : 6/7/2024 9:35 am

Compound #21: 1254-4



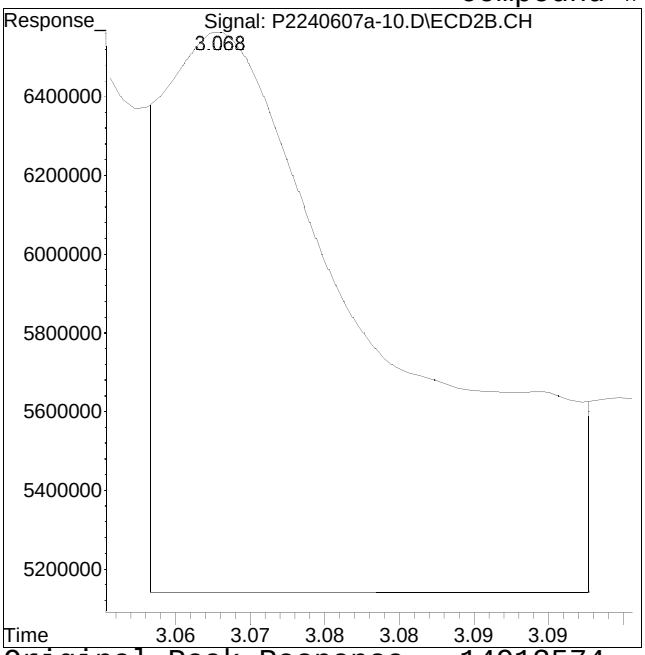


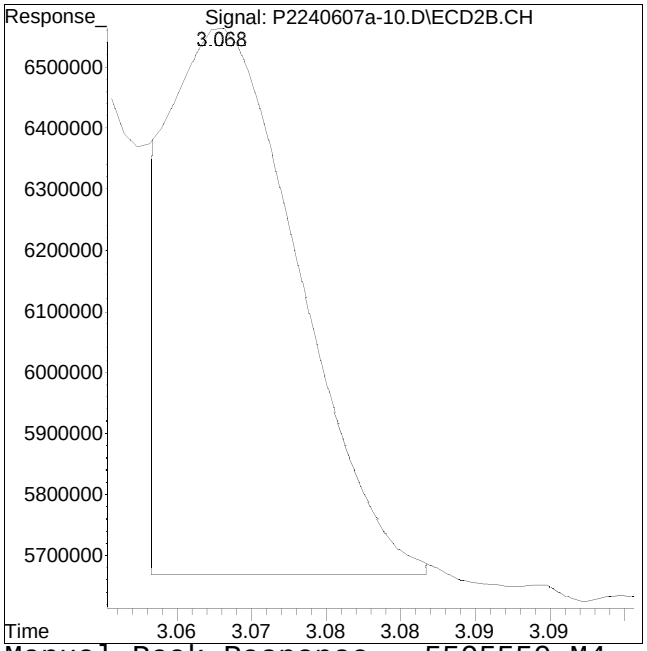
Original Peak Response = 19414810 Manual Peak Response = 10707900 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-10.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:00 Instrument : Pest 2
Sample : L2430219-04,42,, p Quant Date : 6/7/2024 9:35 am

Compound #72: 1254-4 #2





Original Peak Response = 14913574 Manual Peak Response = 5505550 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 9:26
Operator : pest2:mhg
Sample : L2430219-05,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 09:35:54 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.158	1.228	422.5E6	250.5E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 477774528				Recovery =	88.43%	
	Standard Area 1 : #2 = 323810098				Recovery =	77.37%	
14) i	2154_1br2nb	1.158	1.228	422.5E6	250.5E6	25.000M4	25.000M4
23) i	4268_1br2nb	1.158	1.228	422.5E6	250.5E6	25.000M4	25.000M4
34) i	1248_1br2nb	1.158	1.228	422.5E6	250.5E6	25.000M4	25.000M4
40) i	3262_1br2nb	1.158	1.228	422.5E6	250.5E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.443	1.602	368.1E6	203.6E6	16.614M4	16.493M4
	Spiked Amount 20.000	Range 30 - 150			Recovery =	83.07%	82.46%
3) s	Decachlorobi	4.015	4.528	265.2E6	149.6E6	18.527	25.745
	Spiked Amount 20.000	Range 30 - 150			Recovery =	92.64%	128.72%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	2.681	3.055	14441832	9699676	13.238M2	17.936M2
10) l2	1260-2	2.812	0.000	25381223	0	15.435M2	N.D. d
11) l2	1260-3	3.128	3.549	8837200	8160135	8.650M4	17.005M3

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 9:26
Operator : pest2:mhg
Sample : L2430219-05,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 09:35:54 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12) l2 1260-4	3.282	3.678	25261526	17784564	11.540M4	18.438M4
13) l2 1260-5	3.431	3.880	20833480	13006334	13.579M1	19.667M4
Sum 1260-1			94755261	48650709	62.441	73.045
Average 1260-1					12.488	18.261
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	2.302	2.642	6144328	3815663	7.239M4	8.274M4
19) l4 1254-2	2.415	2.729	11397968	6220357	7.532M4	11.827M4
20) l4 1254-3	2.598	2.959	9545220	7276823	5.940M4	9.370M3
21) l4 1254-4	2.727	3.069	8771962	4332073	7.800M4	9.021M4
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			35859478	21644915	28.510	38.492
Average 1254-1					7.128	9.623
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 9:26
Operator : pest2:mhg
Sample : L2430219-05,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 09:35:54 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

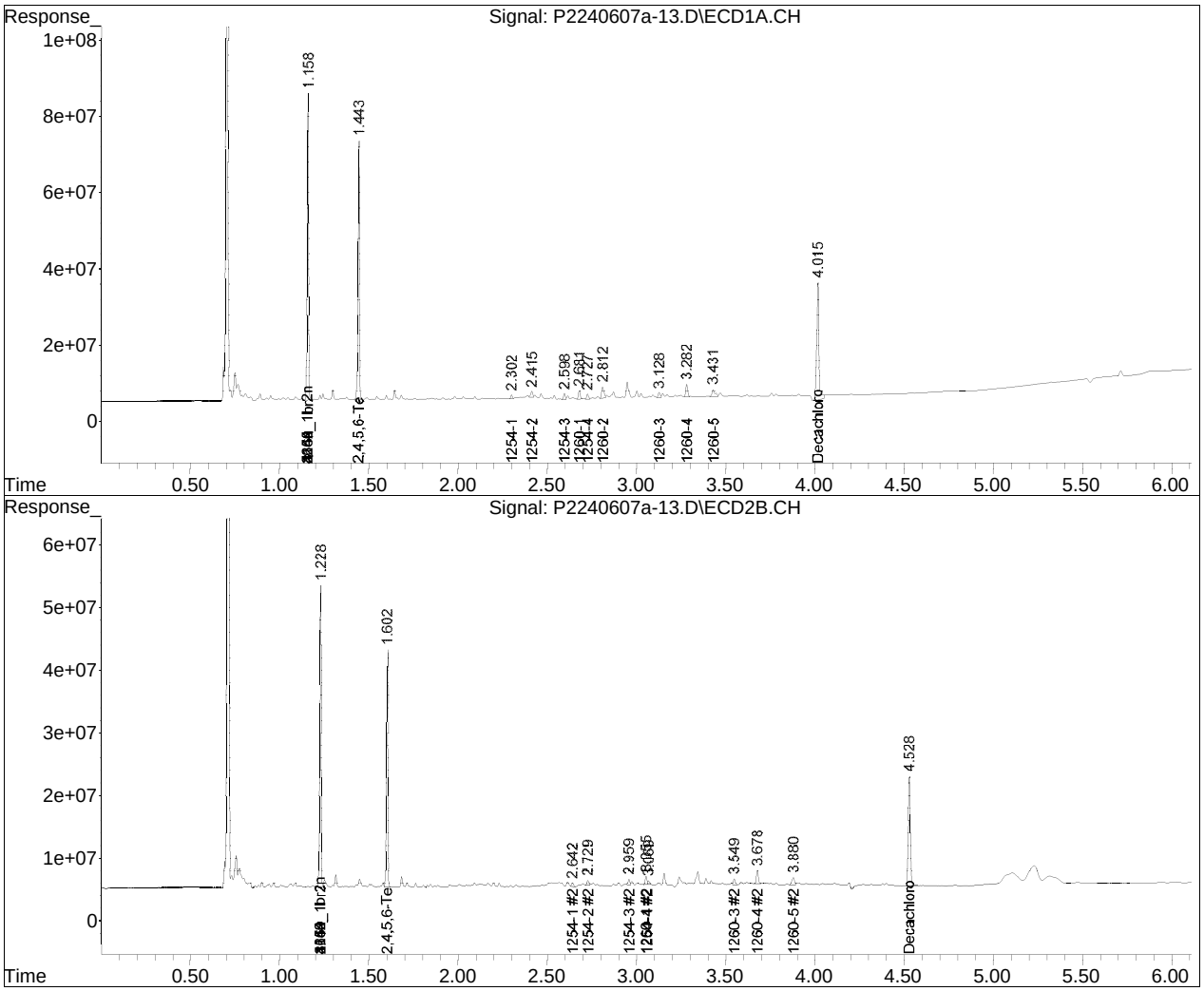
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240607a-02.D•

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 9:26
Operator : pest2:mhg
Sample : L2430219-05,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 09:35:54 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

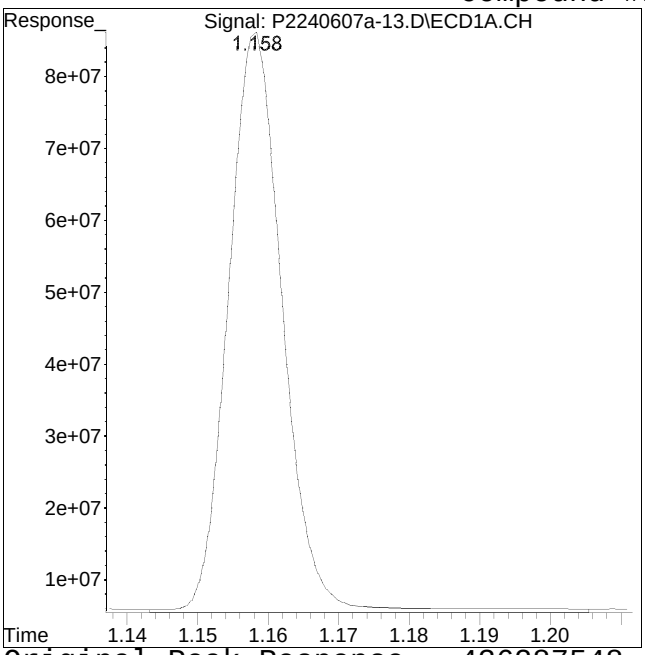
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



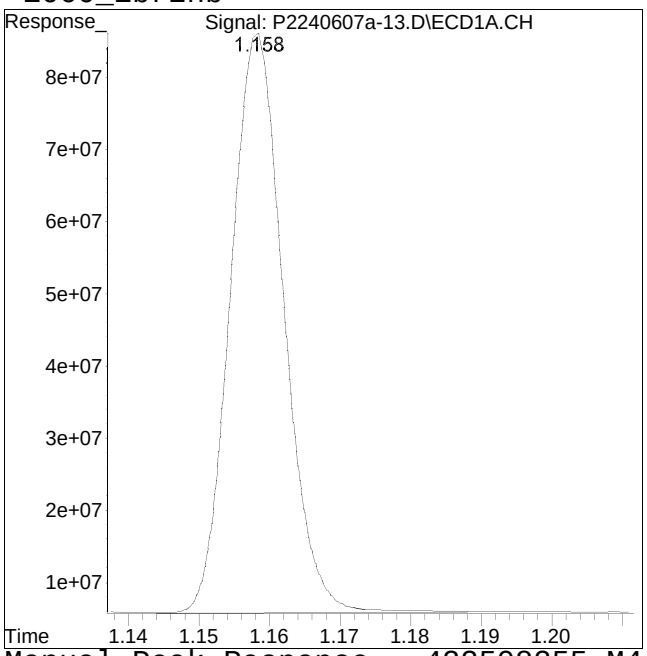
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-13.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:26 Instrument : Pest 2
Sample : L2430219-05,42,, Quant Date : 6/7/2024 9:35 am

Compound #1: 1660_1br2nb



Original Peak Response = 436287548

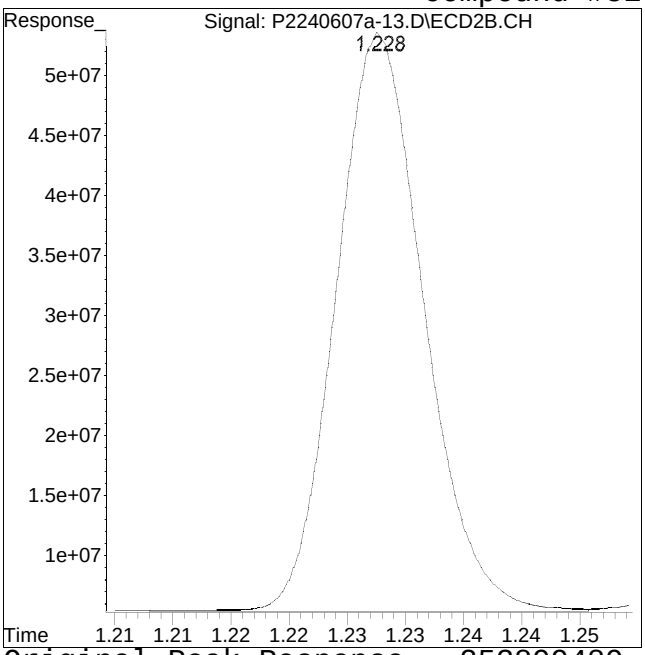


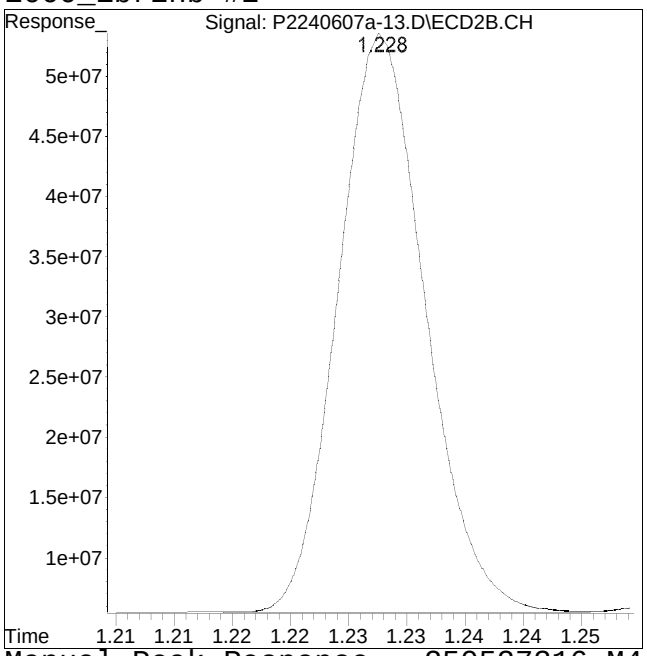
Manual Peak Response = 422508255 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-13.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:26 Instrument : Pest 2
Sample : L2430219-05,42,, Quant Date : 6/7/2024 9:35 am

Compound #52: 1660_1br2nb #2



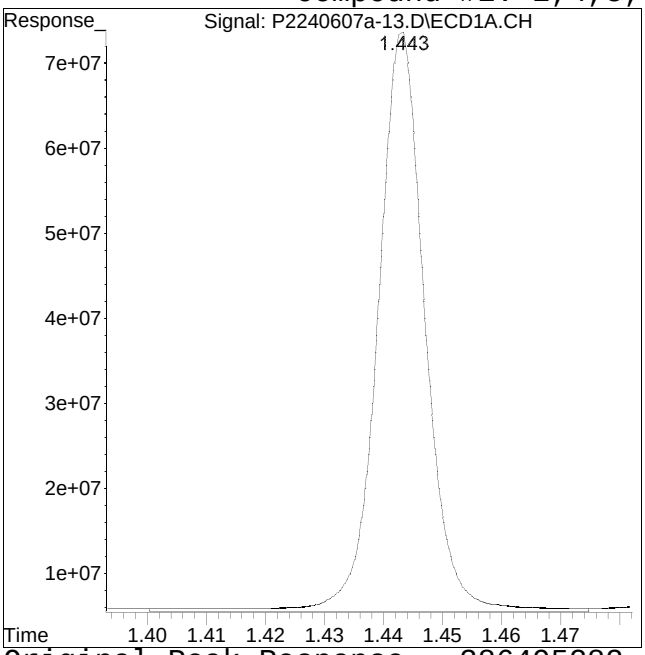


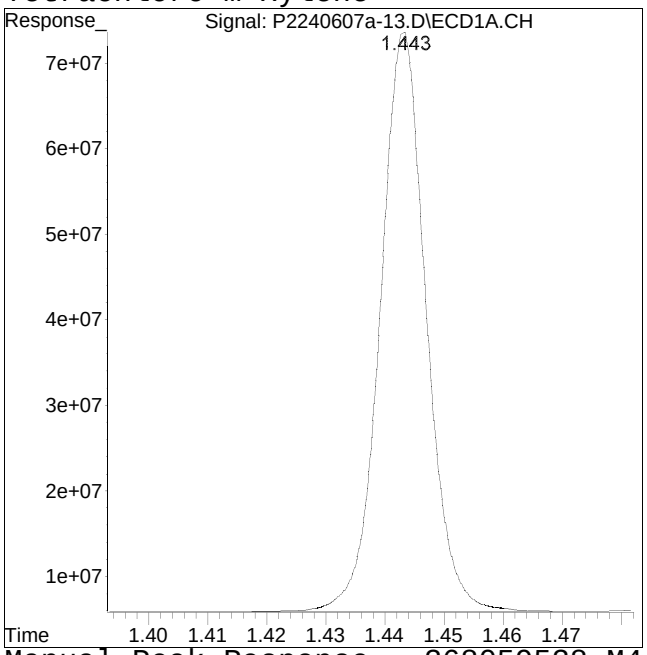
Original Peak Response = 253899489 Manual Peak Response = 250527316 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-13.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:26 Instrument : Pest 2
Sample : L2430219-05,42,, Quant Date : 6/7/2024 9:35 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



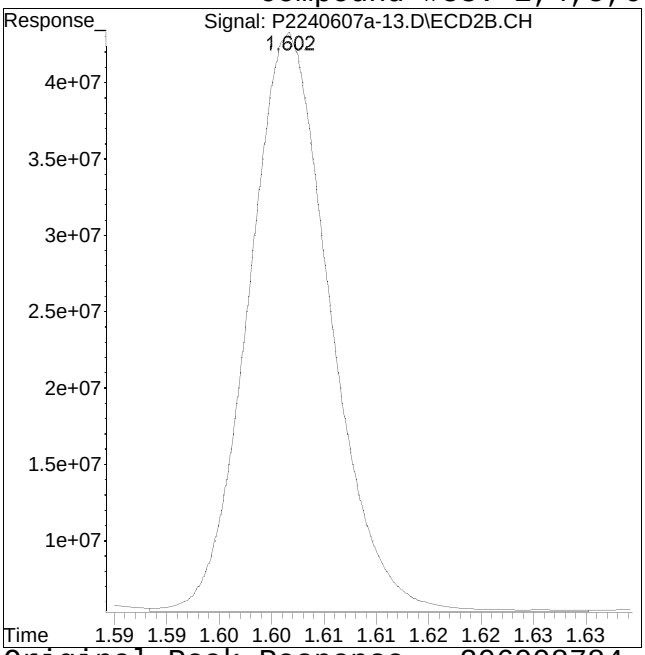


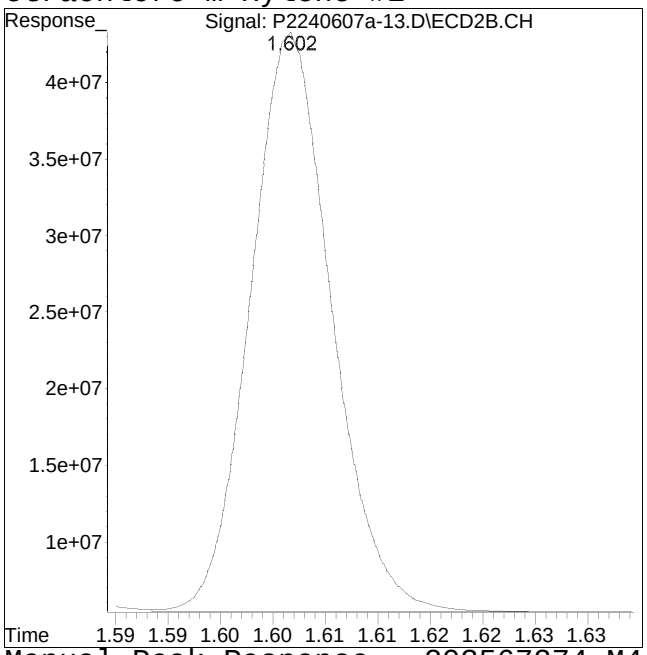
Original Peak Response = 386495282 Manual Peak Response = 368059538 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-13.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:26 Instrument : Pest 2
Sample : L2430219-05,42,, Quant Date : 6/7/2024 9:35 am

Compound #53: 2,4,5,6-Tetrachloro-m-xylene #2



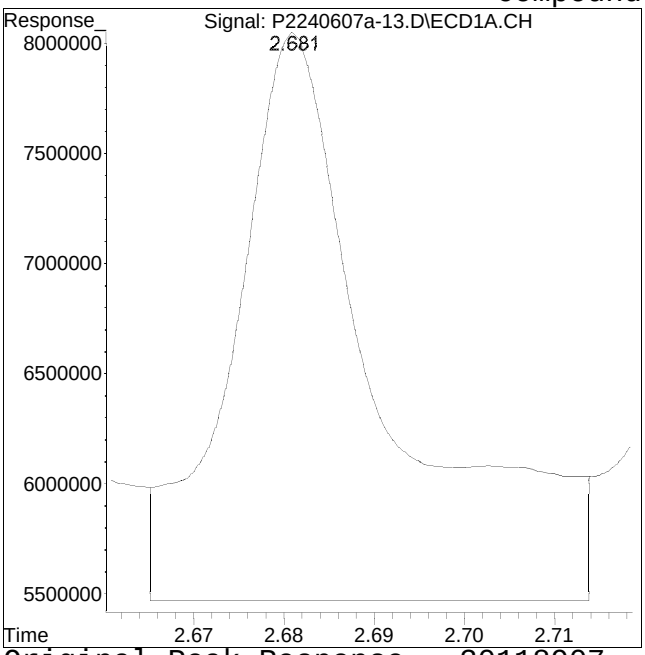


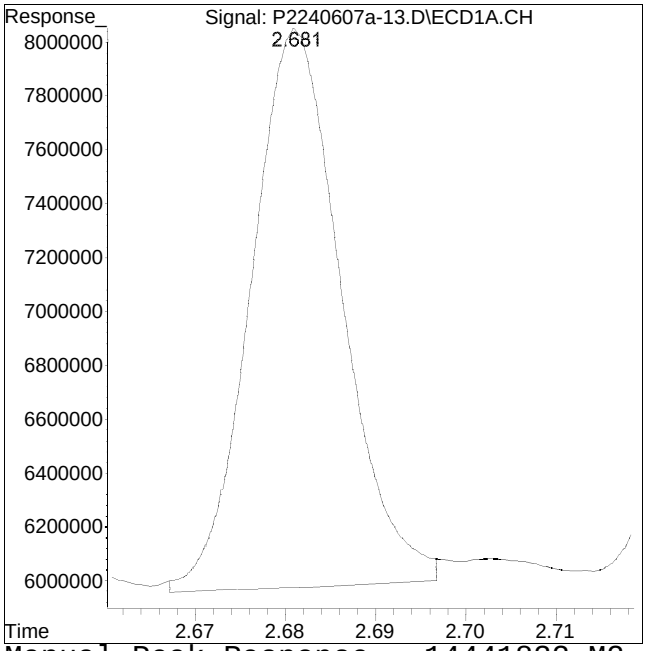
Original Peak Response = 206008784 Manual Peak Response = 203567274 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-13.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:26 Instrument : Pest 2
Sample : L2430219-05,42,, Quant Date : 6/7/2024 9:35 am

Compound #9: 1260-1



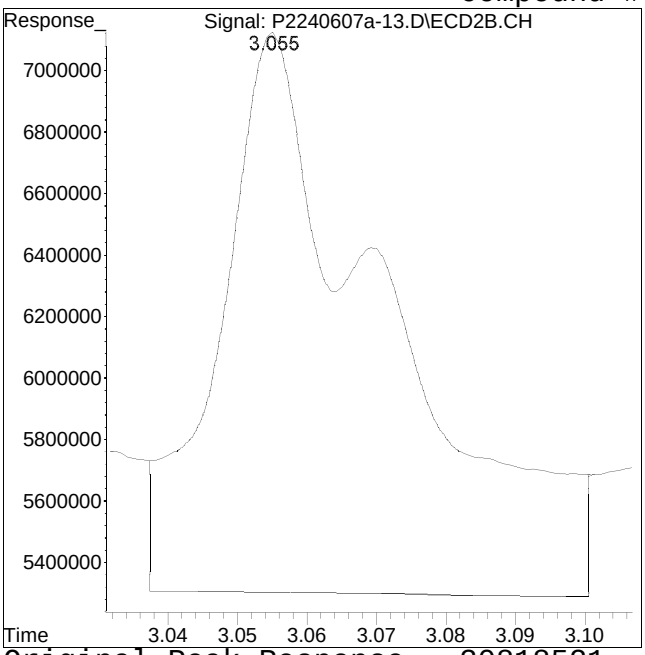


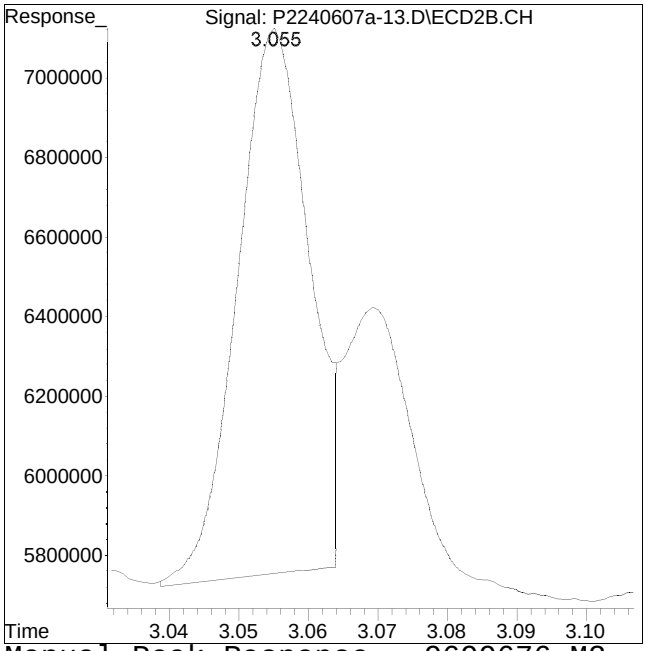
Original Peak Response = 30118907 Manual Peak Response = 14441832 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-13.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:26 Instrument : Pest 2
Sample : L2430219-05,42,, Quant Date : 6/7/2024 9:35 am

Compound #60: 1260-1 #2



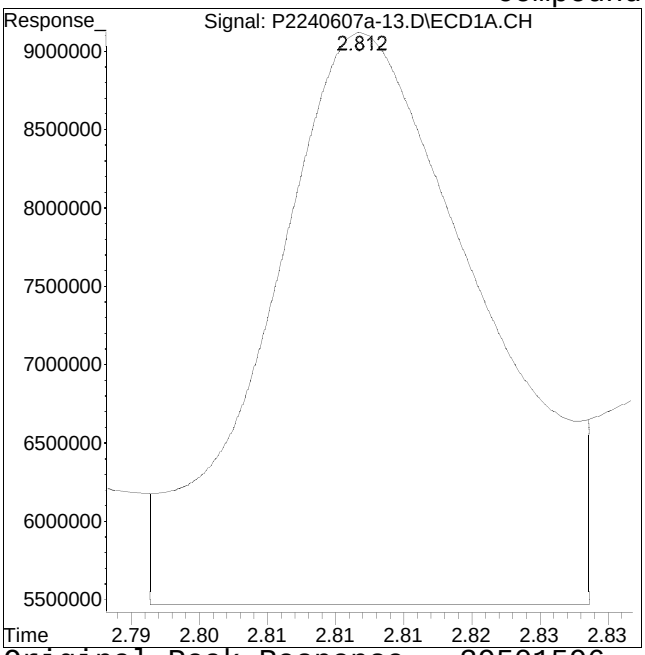


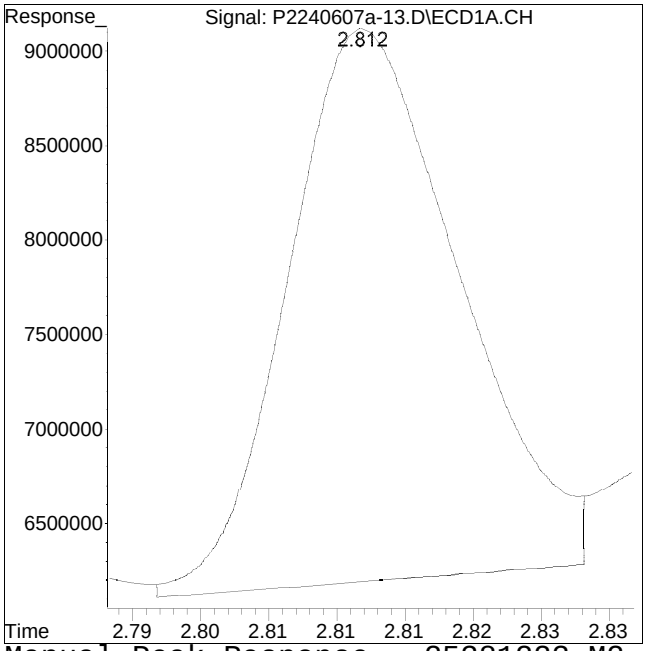
Original Peak Response = 30818521 Manual Peak Response = 9699676 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-13.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:26 Instrument : Pest 2
Sample : L2430219-05,42,, Quant Date : 6/7/2024 9:35 am

Compound #10: 1260-2



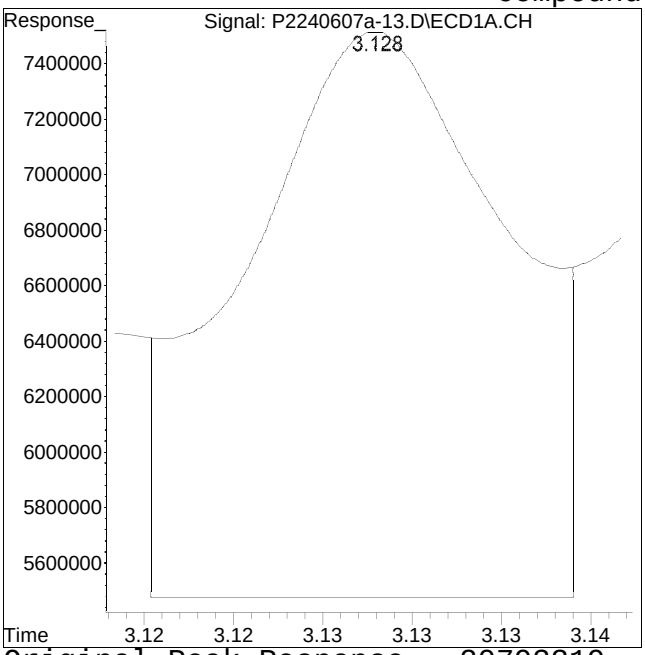


Original Peak Response = 39501596 Manual Peak Response = 25381223 M2
M2 = Peak not found by automatic integration algorithm.

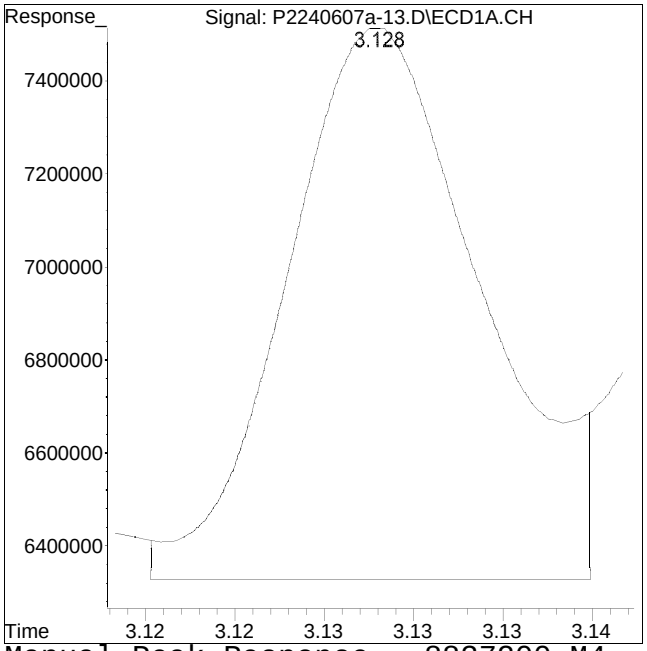
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-13.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:26 Instrument : Pest 2
Sample : L2430219-05,42,, Quant Date : 6/7/2024 9:35 am

Compound #11: 1260-3



Original Peak Response = 20793319



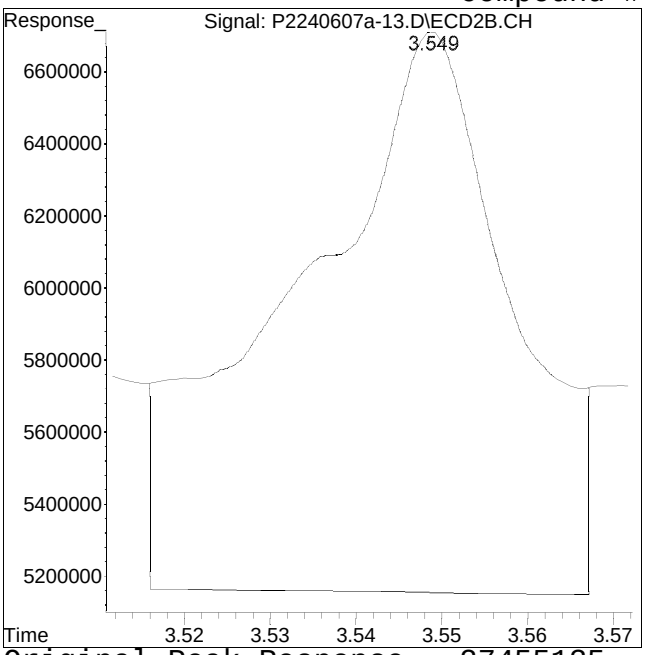
Manual Peak Response = 8837200 M4

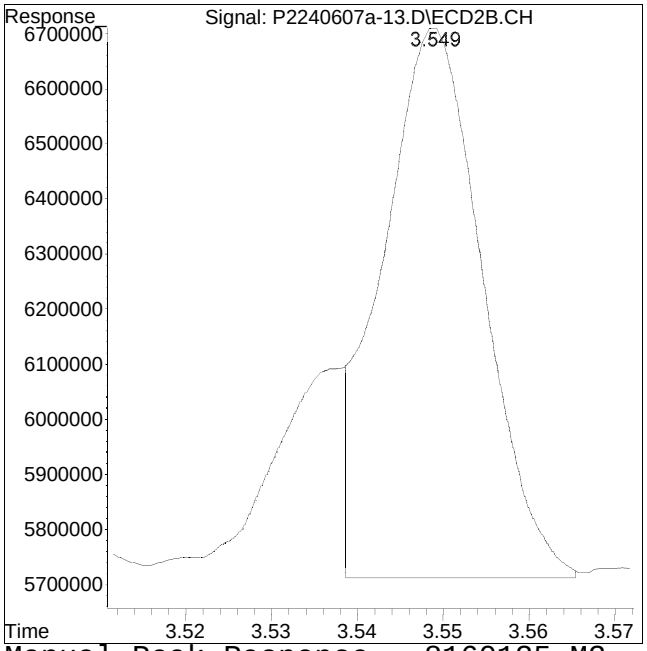
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-13.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:26 Instrument : Pest 2
Sample : L2430219-05,42,, Quant Date : 6/7/2024 9:35 am

Compound #62: 1260-3 #2



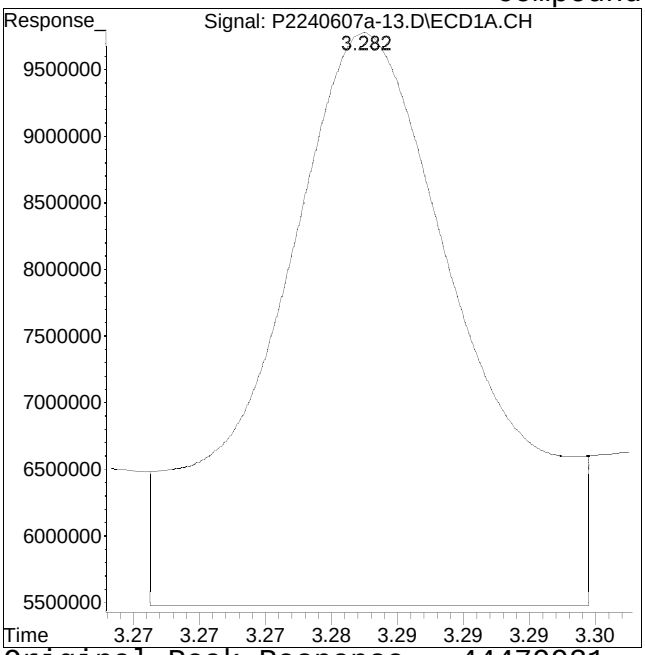


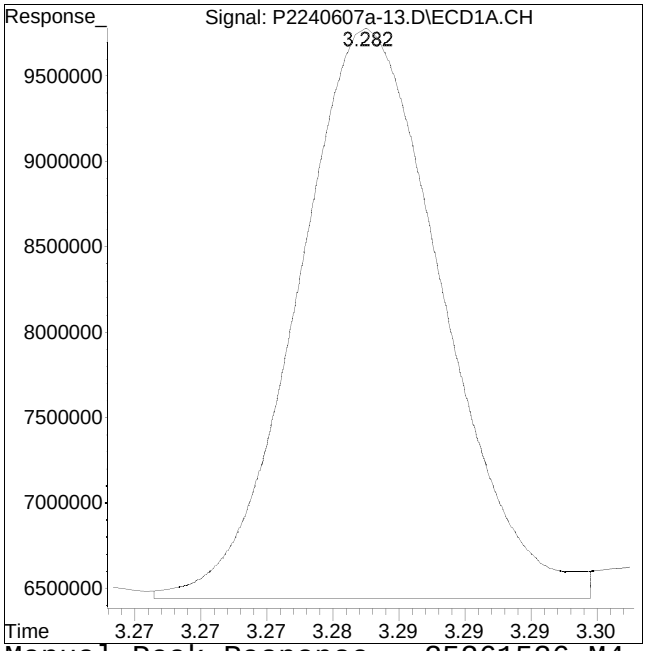
Original Peak Response = 27455135 Manual Peak Response = 8160135 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-13.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:26 Instrument : Pest 2
Sample : L2430219-05,42,, Quant Date : 6/7/2024 9:35 am

Compound #12: 1260-4



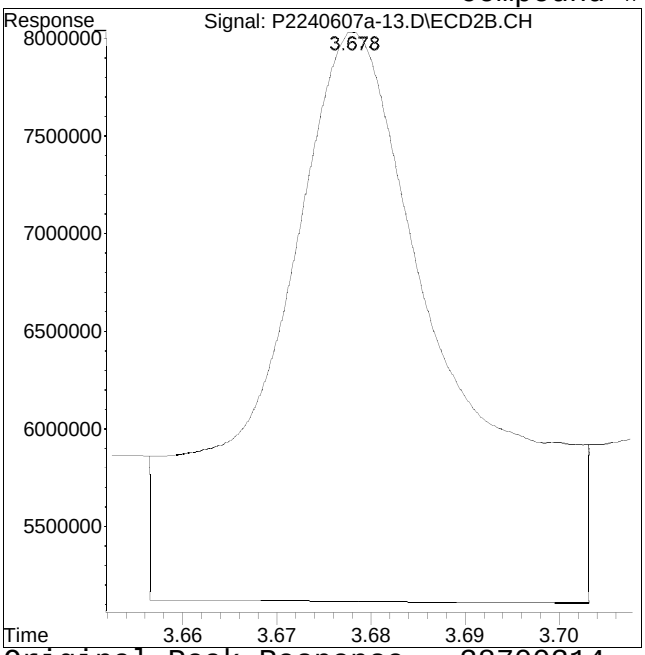


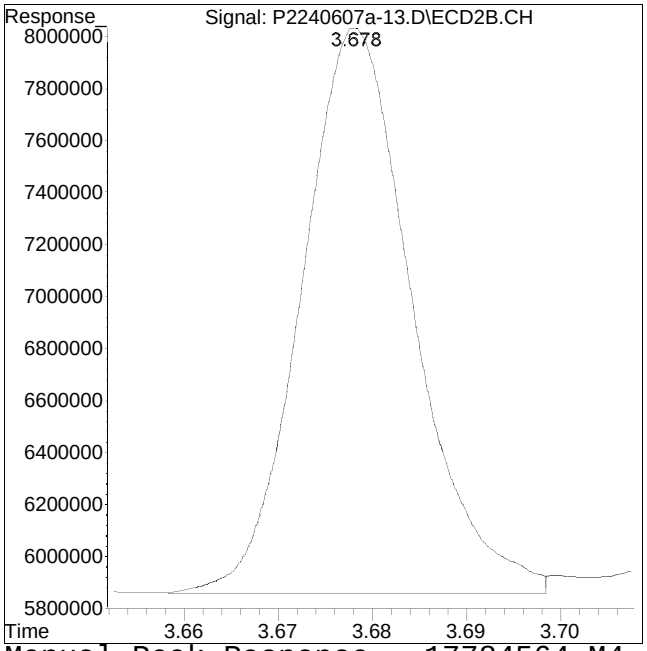
Original Peak Response = 44479931 Manual Peak Response = 25261526 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-13.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:26 Instrument : Pest 2
Sample : L2430219-05,42,, Quant Date : 6/7/2024 9:35 am

Compound #63: 1260-4 #2



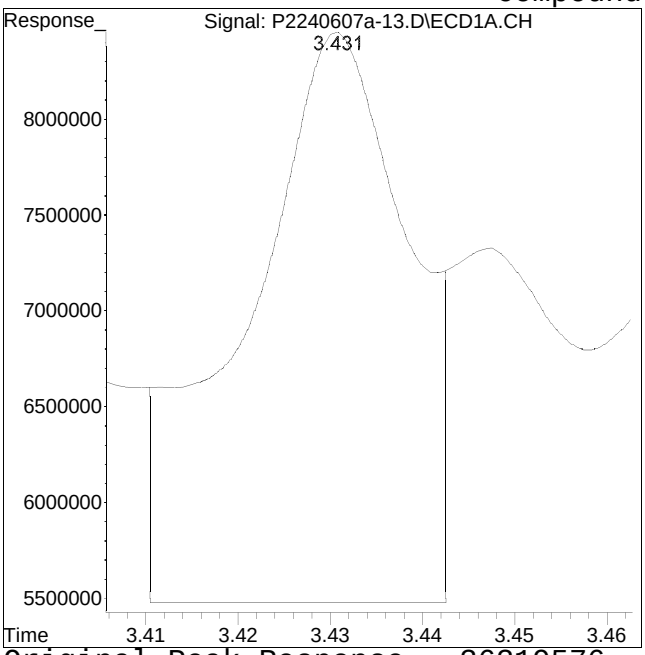


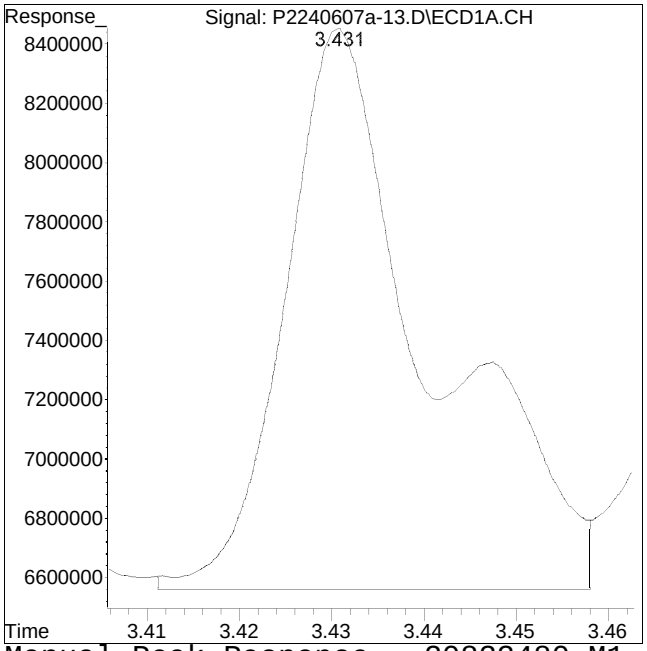
Original Peak Response = 38700314 Manual Peak Response = 17784564 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-13.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:26 Instrument : Pest 2
Sample : L2430219-05,42,, Quant Date : 6/7/2024 9:35 am

Compound #13: 1260-5



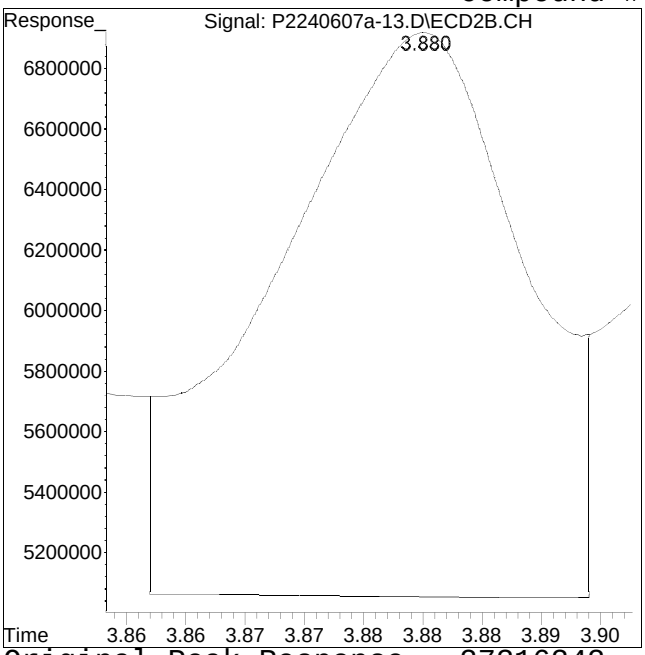


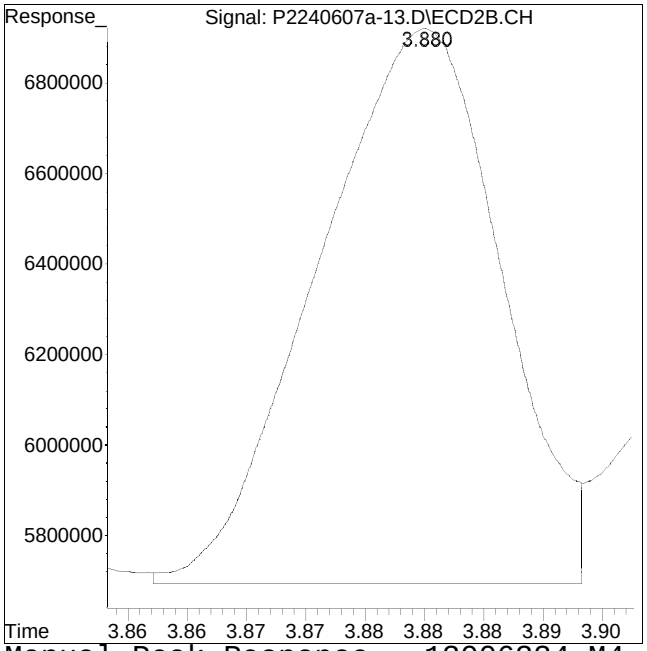
Original Peak Response = 36319576 Manual Peak Response = 20833480 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-13.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:26 Instrument : Pest 2
Sample : L2430219-05,42,, Quant Date : 6/7/2024 9:35 am

Compound #64: 1260-5 #2



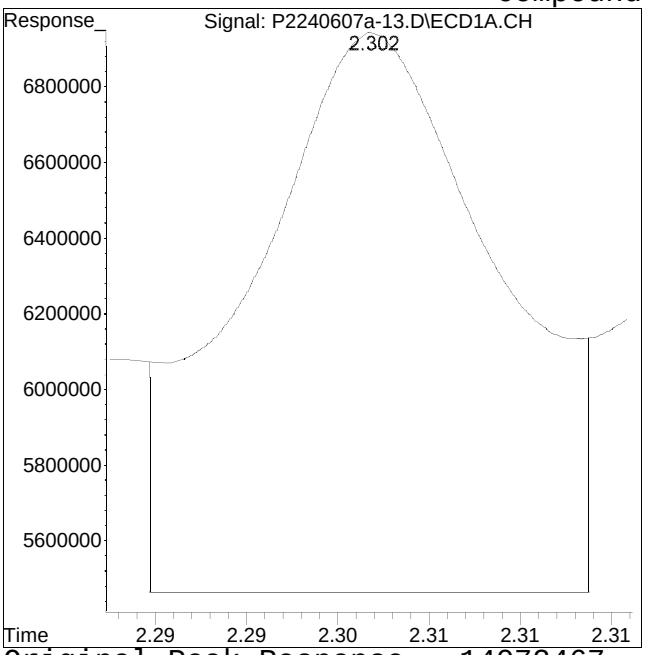


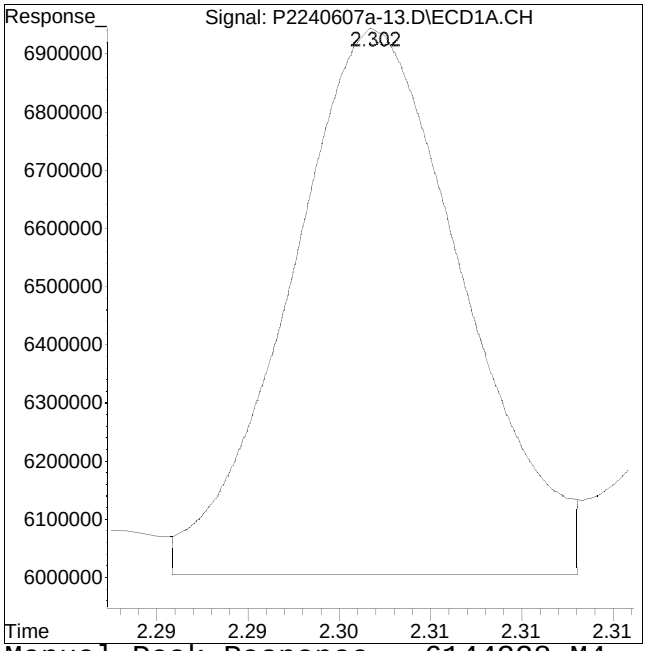
Original Peak Response = 27316242 Manual Peak Response = 13006334 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-13.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:26 Instrument : Pest 2
Sample : L2430219-05,42,, Quant Date : 6/7/2024 9:35 am

Compound #18: 1254-1



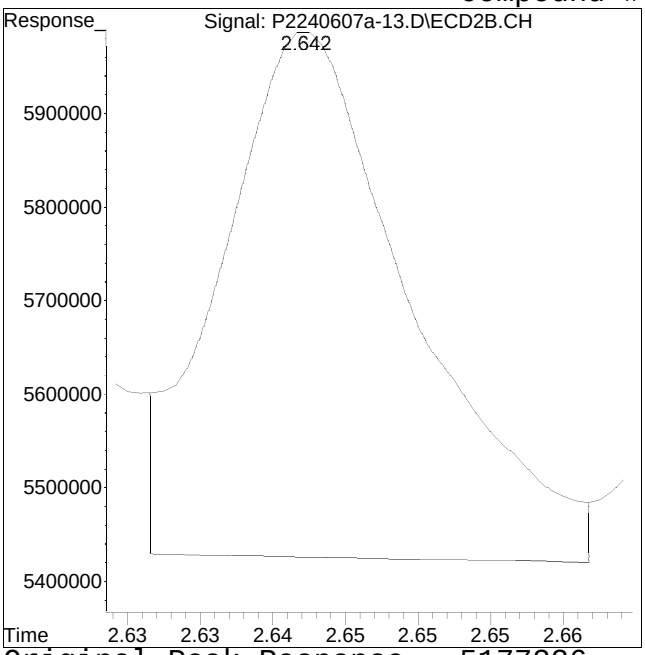


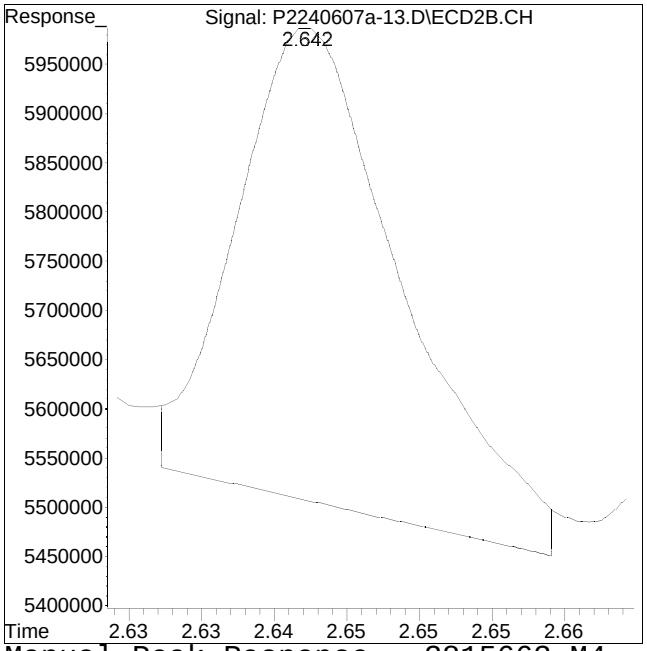
Original Peak Response = 14072467 Manual Peak Response = 6144328 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-13.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:26 Instrument : Pest 2
Sample : L2430219-05,42,, Quant Date : 6/7/2024 9:35 am

Compound #69: 1254-1 #2



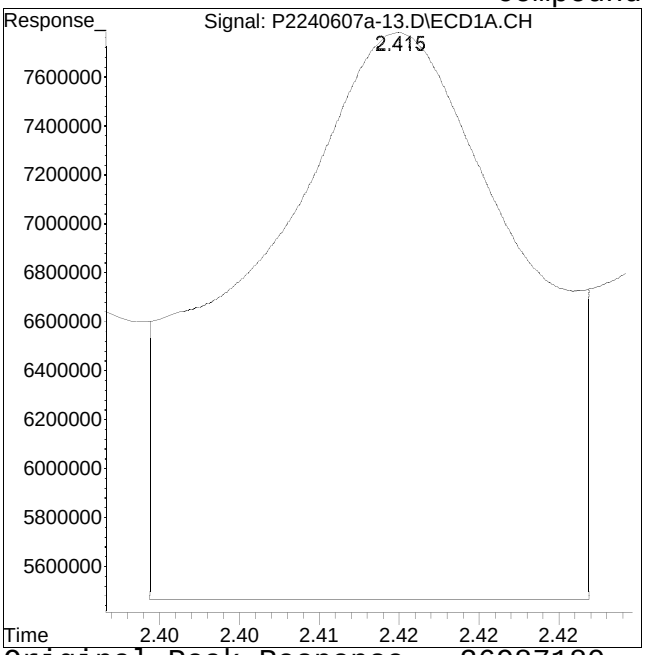


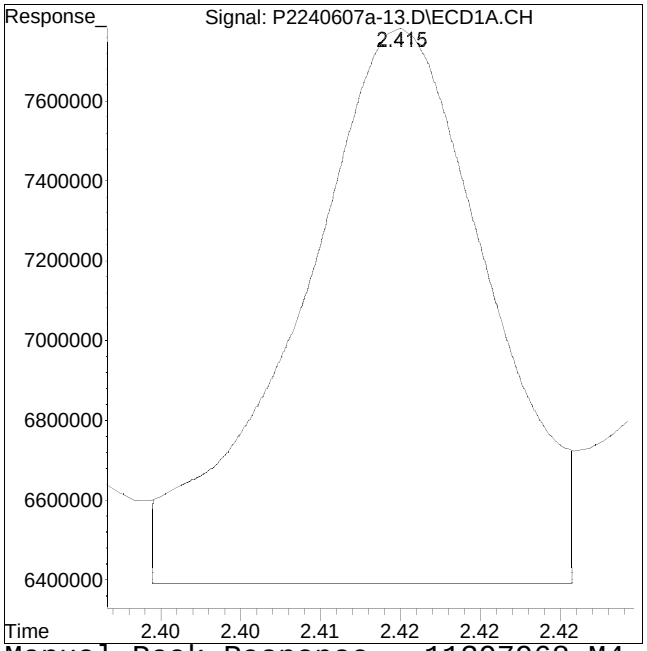
Original Peak Response = 5177226 Manual Peak Response = 3815663 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-13.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:26 Instrument : Pest 2
Sample : L2430219-05,42,, Quant Date : 6/7/2024 9:35 am

Compound #19: 1254-2



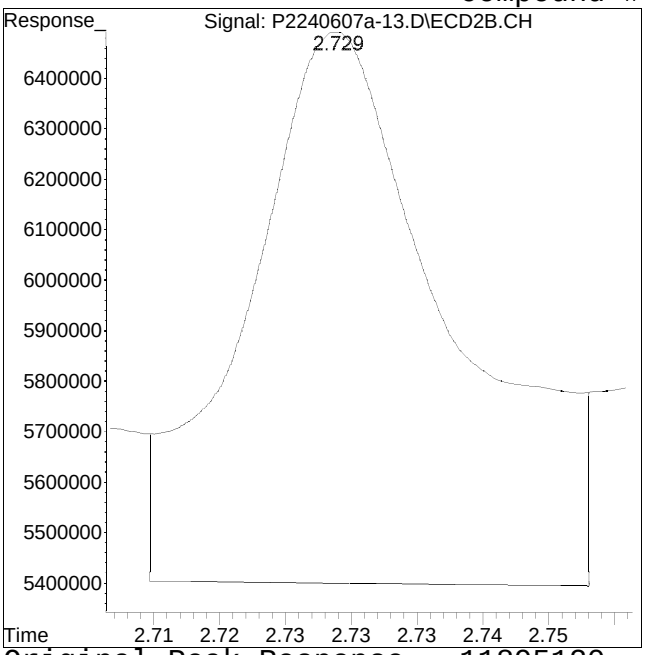


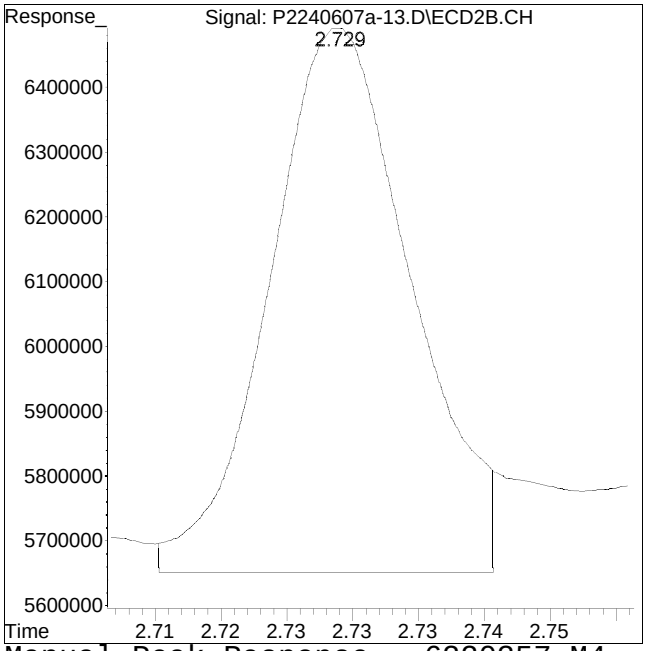
Original Peak Response = 26987180 Manual Peak Response = 11397968 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-13.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:26 Instrument : Pest 2
Sample : L2430219-05,42,, Quant Date : 6/7/2024 9:35 am

Compound #70: 1254-2 #2



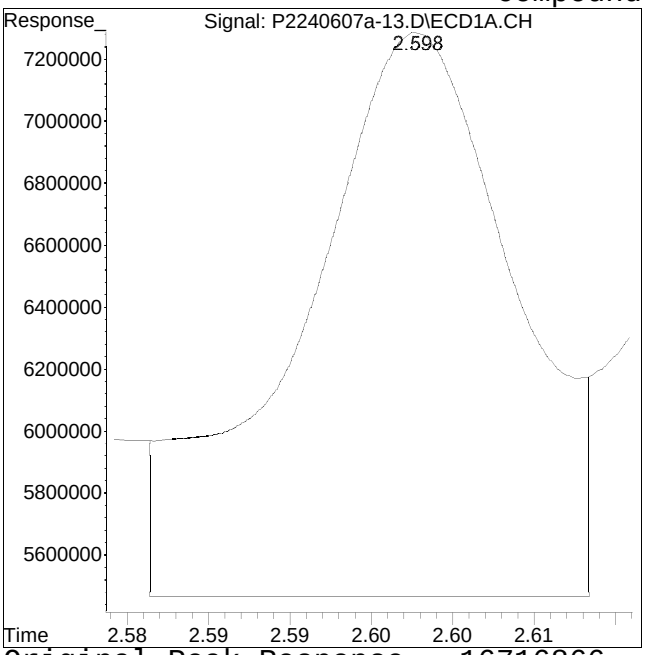


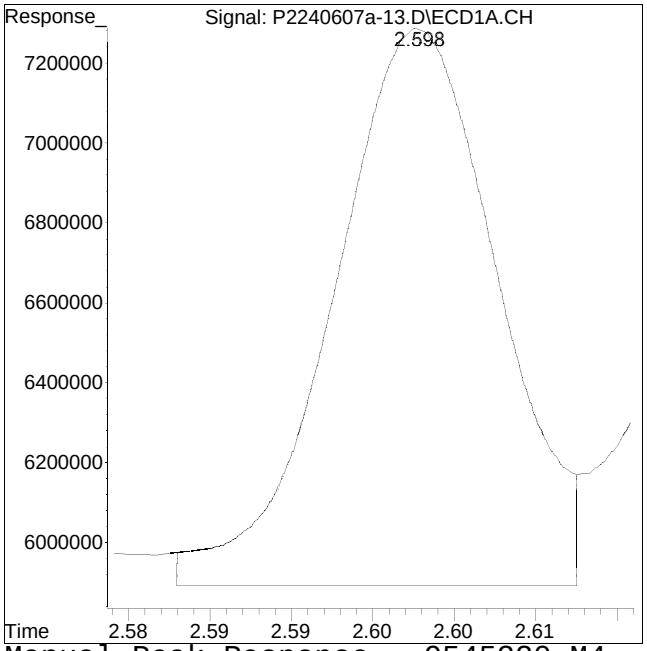
Original Peak Response = 11895120 Manual Peak Response = 6220357 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-13.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:26 Instrument : Pest 2
Sample : L2430219-05,42,, Quant Date : 6/7/2024 9:35 am

Compound #20: 1254-3



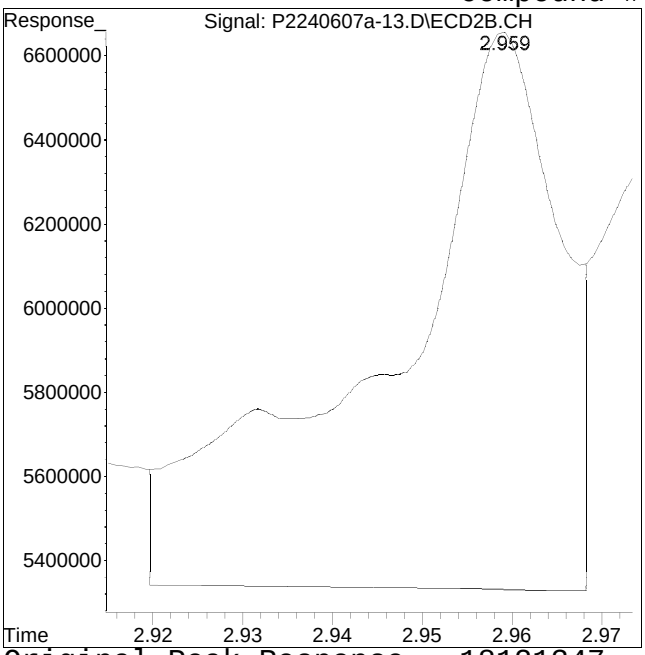


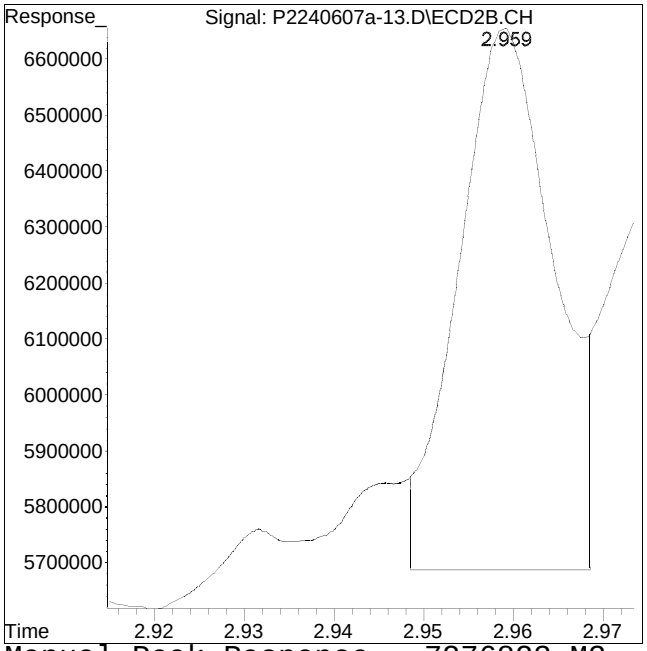
Original Peak Response = 16716866 Manual Peak Response = 9545220 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-13.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:26 Instrument : Pest 2
Sample : L2430219-05,42,, Quant Date : 6/7/2024 9:35 am

Compound #71: 1254-3 #2



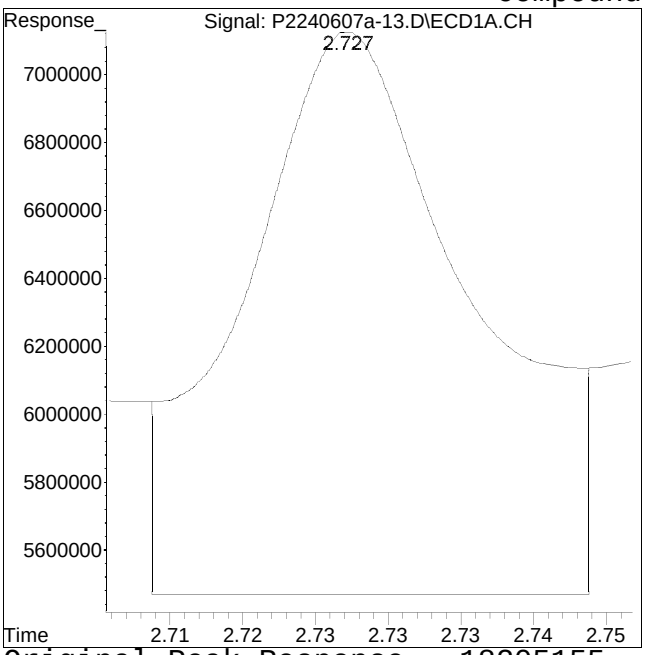


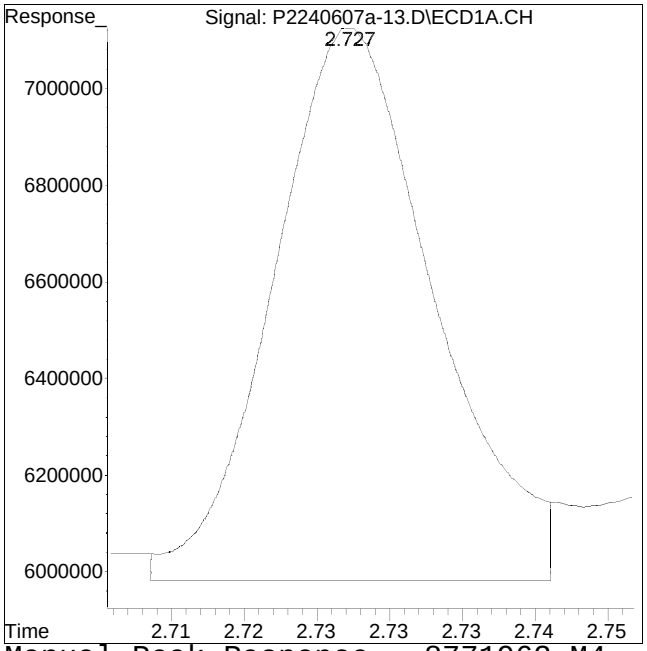
Original Peak Response = 18121347 Manual Peak Response = 7276823 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-13.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:26 Instrument : Pest 2
Sample : L2430219-05,42,, Quant Date : 6/7/2024 9:35 am

Compound #21: 1254-4



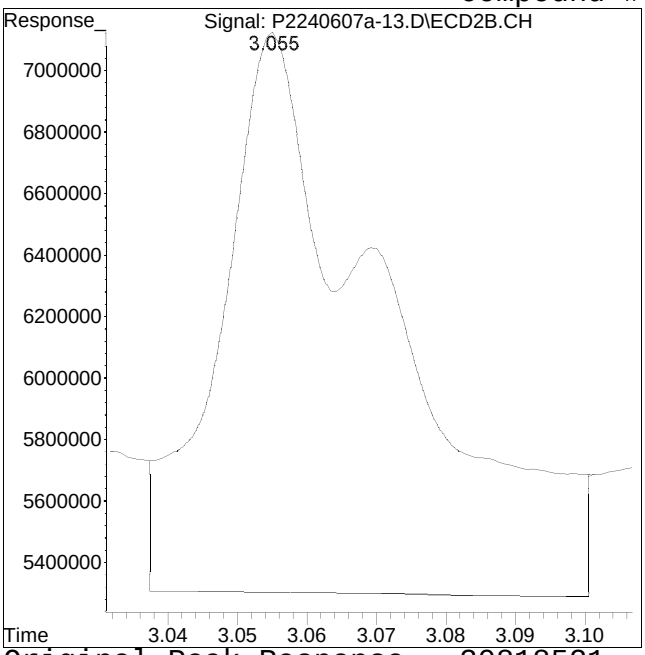


Original Peak Response = 18205155 Manual Peak Response = 8771962 M4
M4 = Poor automated baseline construction.

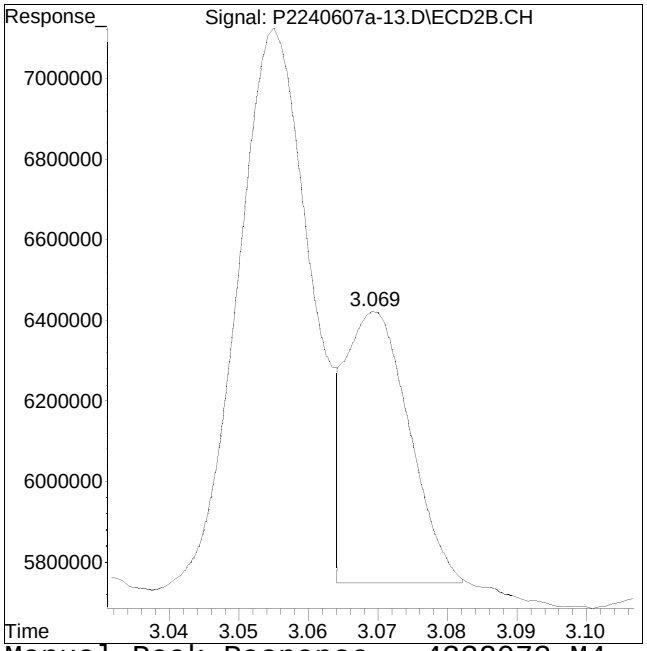
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-13.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:26 Instrument : Pest 2
Sample : L2430219-05,42,, Quant Date : 6/7/2024 9:35 am

Compound #72: 1254-4 #2



Original Peak Response = 30818521



Manual Peak Response = 4332073 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 9:35
Operator : pest2:mhg
Sample : L2430219-06,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 10:20:19 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.158	1.228	440.1E6	260.8E6	25.000M3	25.000M3
	Standard Area 1 : #1 = 477774528				Recovery =	92.11%	
	Standard Area 1 : #2 = 323810098				Recovery =	80.55%	
14) i	2154_1br2nb	1.158	1.228	440.1E6	260.8E6	25.000M3	25.000M3
23) i	4268_1br2nb	1.158	1.228	440.1E6	260.8E6	25.000M3	25.000M3
34) i	1248_1br2nb	1.158	1.228	440.1E6	260.8E6	25.000M3	25.000M3
40) i	3262_1br2nb	1.158	1.228	440.1E6	260.8E6	25.000M3	25.000M3
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.443	1.602	328.3E6	184.2E6	14.228M4	14.337M4
	Spiked Amount 20.000	Range 30 - 150			Recovery =	71.14%	71.69%
3) s	Decachlorobi	4.016	4.529	245.2E6	134.2E6	16.449	22.180M3
	Spiked Amount 20.000	Range 30 - 150			Recovery =	82.25%	110.90%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	2.681	3.055	17826253	11993036	15.687M2	21.301M2

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 9:35
Operator : pest2:mhg
Sample : L2430219-06,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 10:20:19 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
10) l2 1260-2	2.812	3.157	32098518	16780614	18.740M4	26.046M3
11) l2 1260-3	3.128	3.549	10058723	9332733	9.452	18.681M3
12) l2 1260-4	3.283	3.678	31298865	21985893	13.727M3	21.893M3
13) l2 1260-5	3.431	3.881	25647737	15916136	16.049M4	23.117M3
Sum 1260-1			116.9E6	76008412	73.656	111.038 D
Average 1260-1					14.731	22.208 D
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	2.302	2.644	7927554	6318670	8.967M3	13.161M4
19) l4 1254-2	2.415	2.729	14251739	7034776	9.042M3	12.848M4
20) l4 1254-3	2.598	2.959	10524781	8687405	6.288M3	10.744M3
21) l4 1254-4	2.728	3.069	9686964	5732073	8.269	11.465M3
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			42391039	27772924	32.566	48.218
Average 1254-1					8.141	12.055
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 9:35
Operator : pest2:mhg
Sample : L2430219-06,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 10:20:19 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 9:35
Operator : pest2:mhg
Sample : L2430219-06,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 10:20:19 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

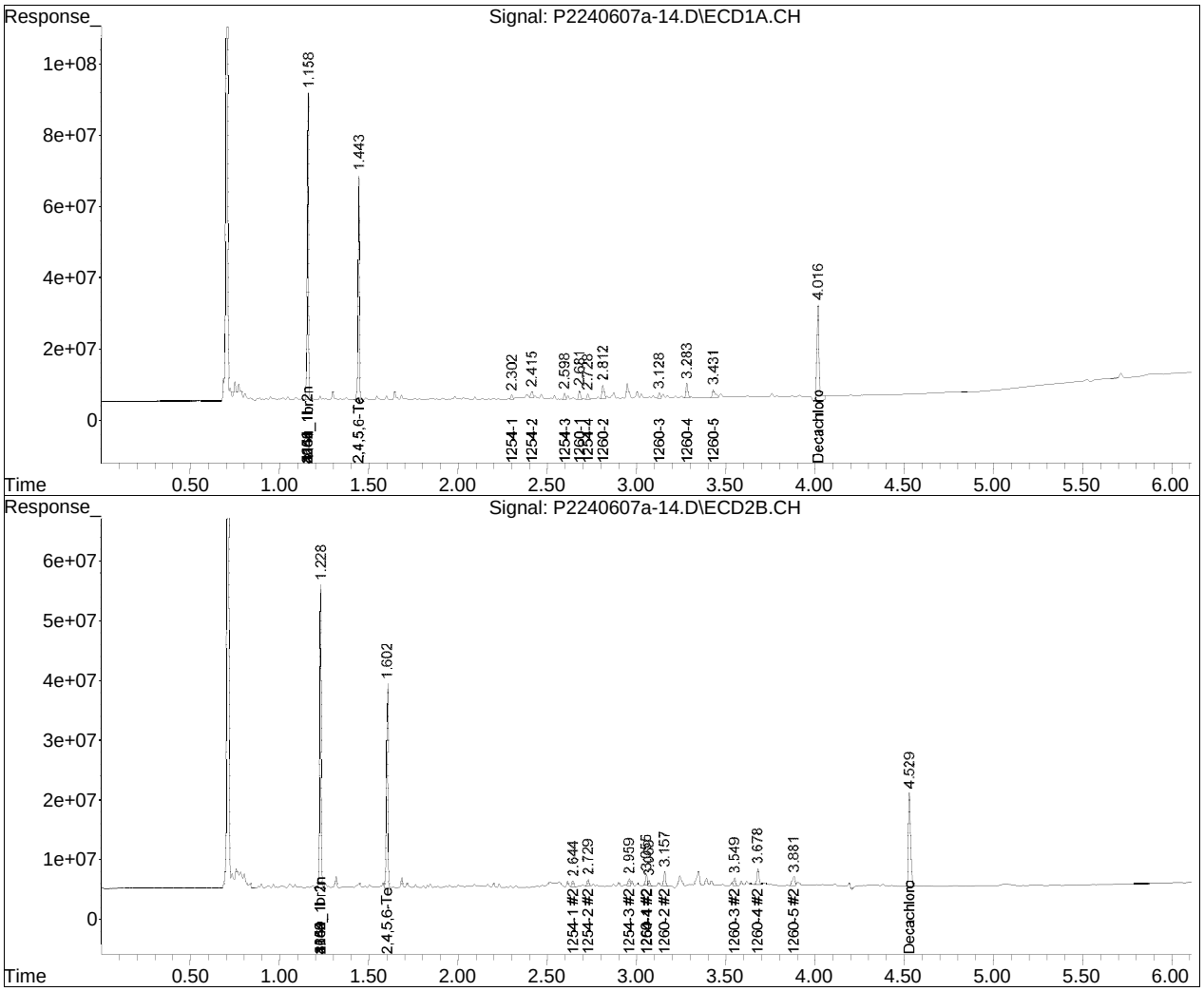
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

Sub List : Default - All compounds listedP2240607a-02.D•

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 9:35
Operator : pest2:mhg
Sample : L2430219-06,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 10:20:19 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

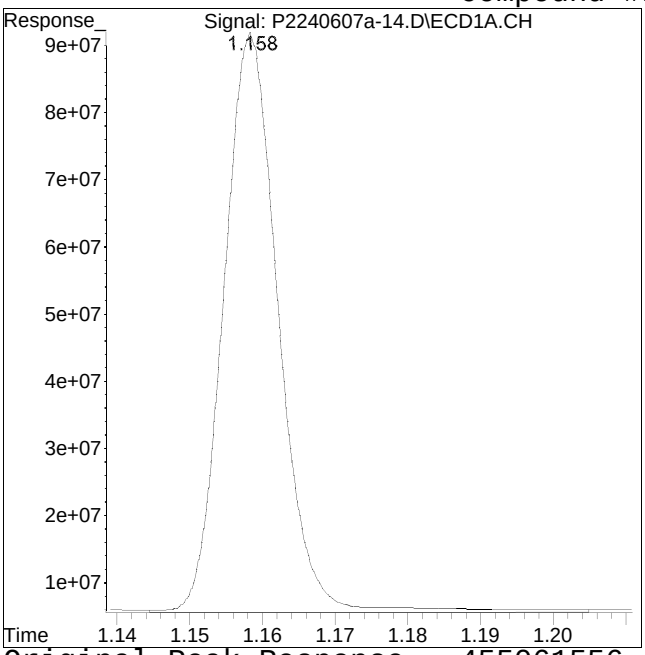
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

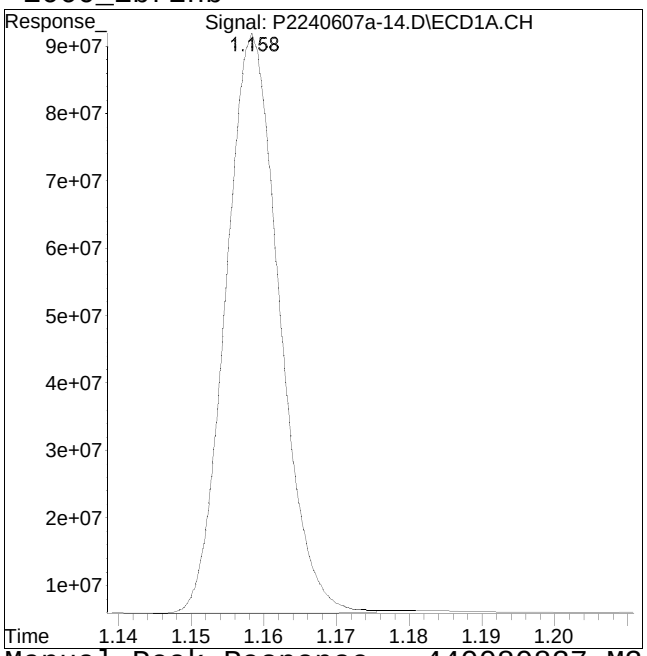


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-14.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:35 Instrument : Pest 2
Sample : L2430219-06,42,, Quant Date : 6/7/2024 10:20 am

Compound #1: 1660_1br2nb



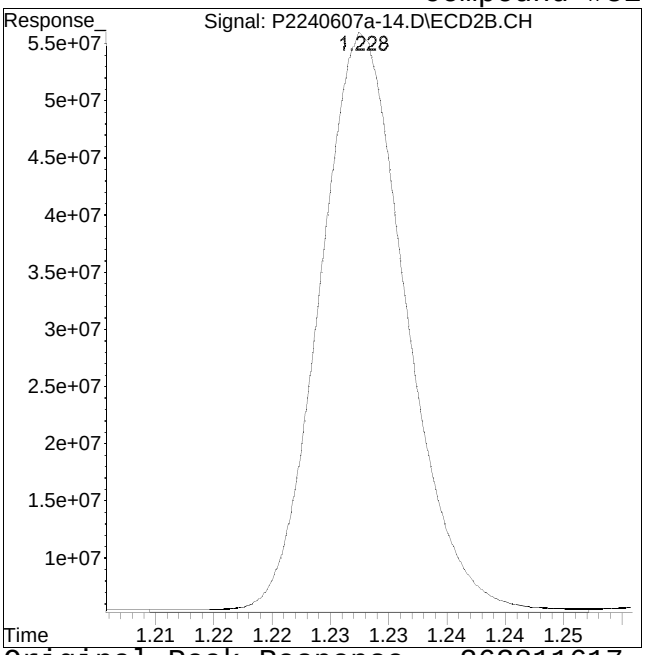


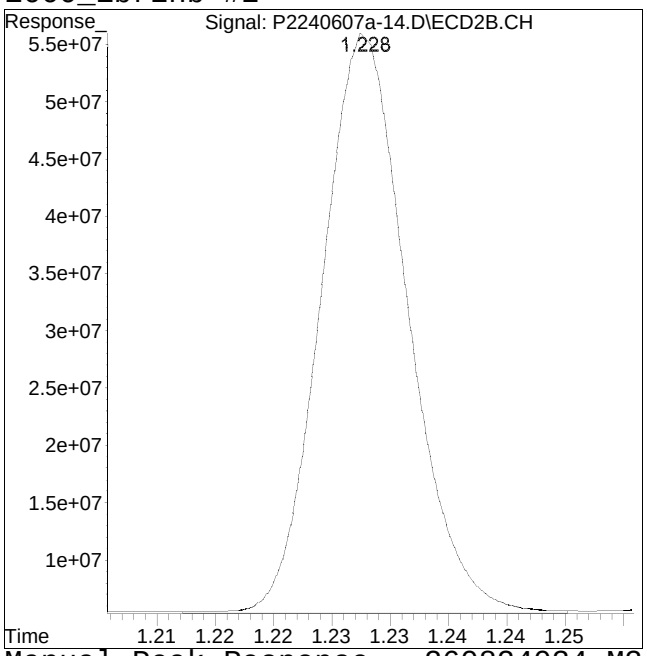
Original Peak Response = 455061556 Manual Peak Response = 440080837 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-14.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:35 Instrument : Pest 2
Sample : L2430219-06,42,, Quant Date : 6/7/2024 10:20 am

Compound #52: 1660_1br2nb #2



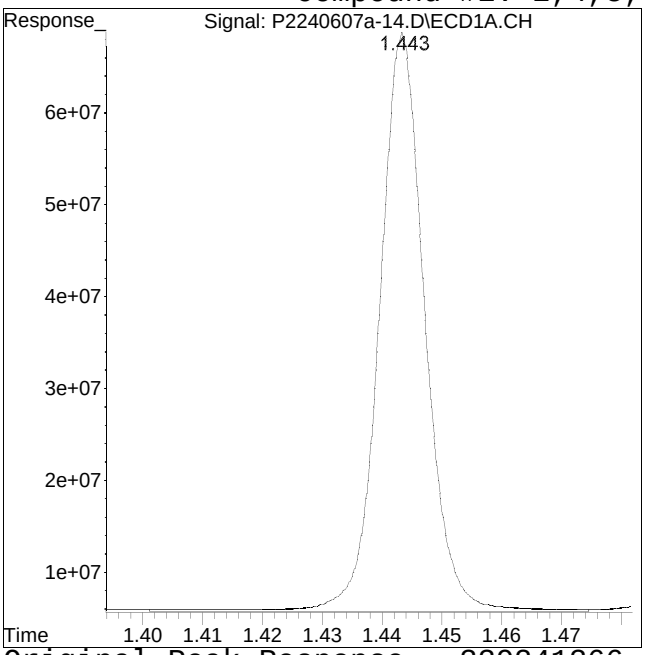


Original Peak Response = 263811617 Manual Peak Response = 260824034 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

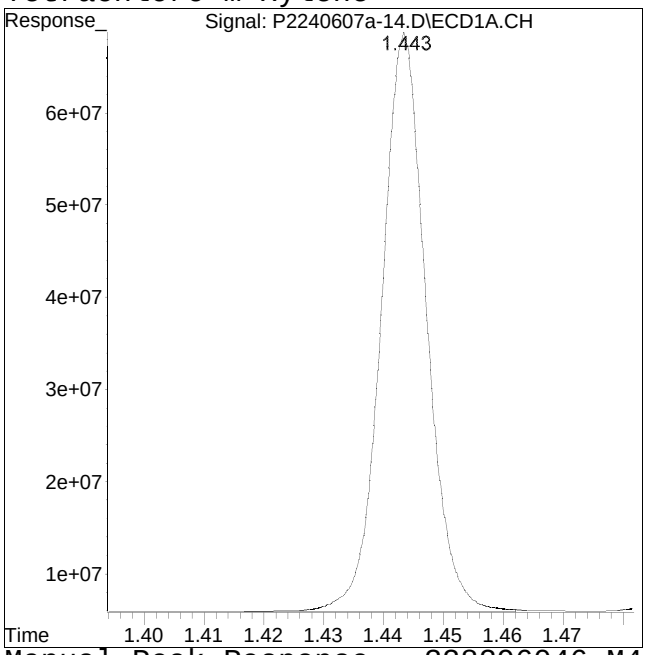
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-14.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:35 Instrument : Pest 2
Sample : L2430219-06,42,, Quant Date : 6/7/2024 10:20 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 339241366



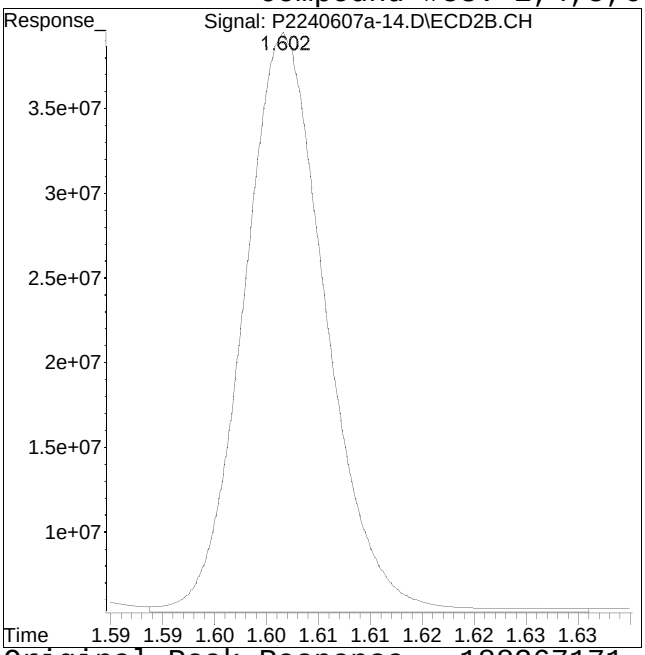
Manual Peak Response = 328296046 M4

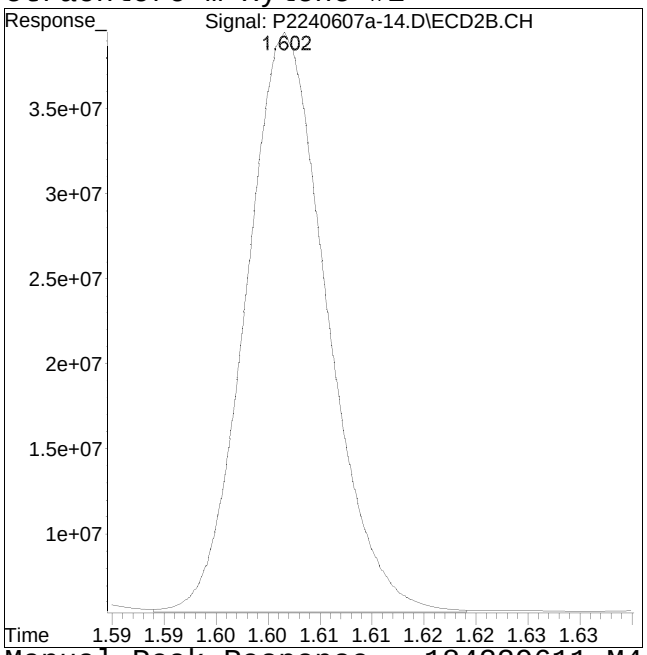
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-14.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:35 Instrument : Pest 2
Sample : L2430219-06,42,, Quant Date : 6/7/2024 10:20 am

Compound #53: 2,4,5,6-Tetrachloro-m-xylene #2



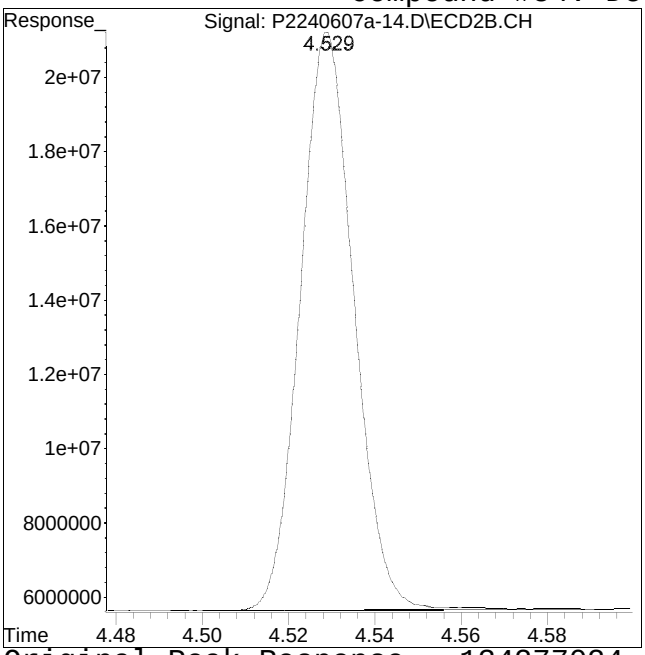


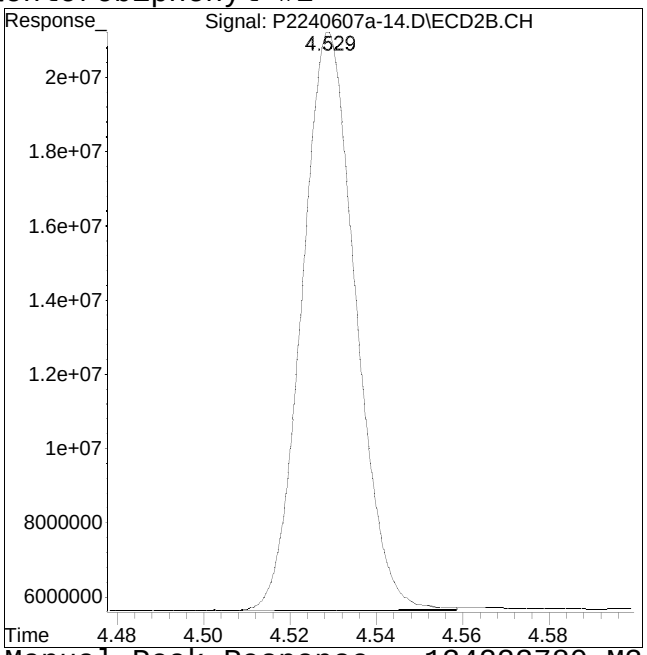
Original Peak Response = 188367171 Manual Peak Response = 184229611 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-14.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:35 Instrument : Pest 2
Sample : L2430219-06,42,, Quant Date : 6/7/2024 10:20 am

Compound #54: Decachlorobiphenyl #2



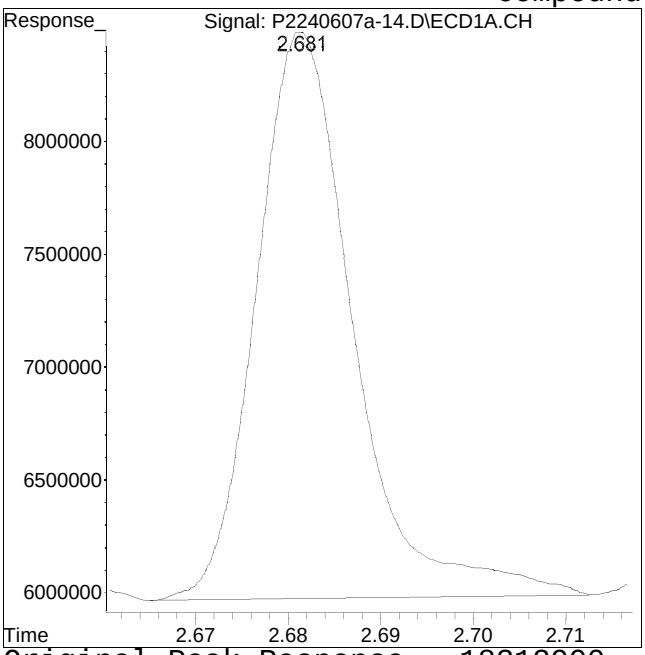


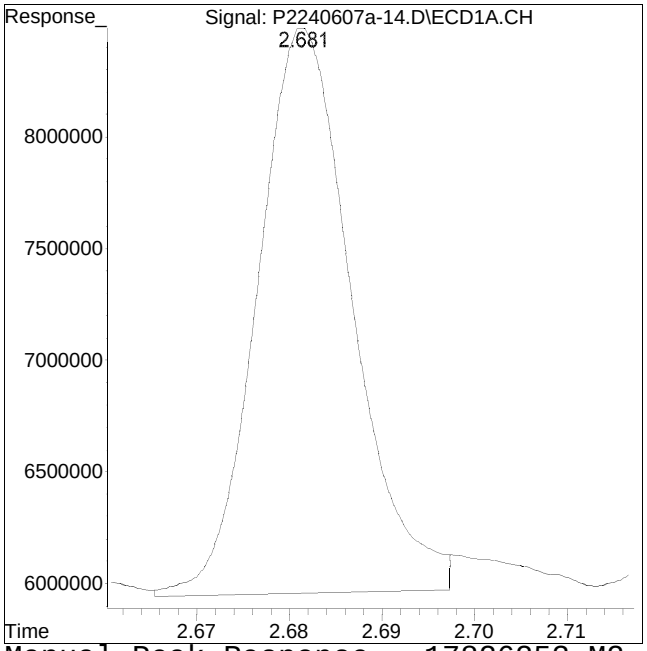
Original Peak Response = 134277024 Manual Peak Response = 134223780 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-14.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:35 Instrument : Pest 2
Sample : L2430219-06,42,, Quant Date : 6/7/2024 10:20 am

Compound #9: 1260-1



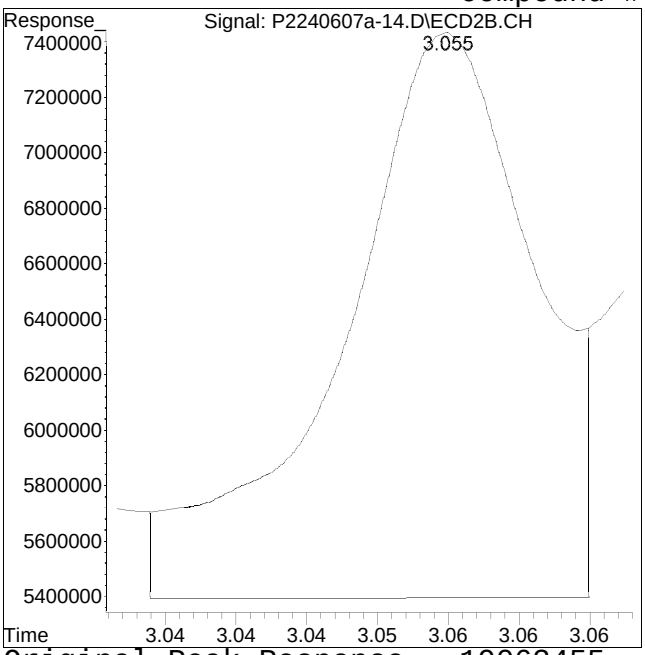


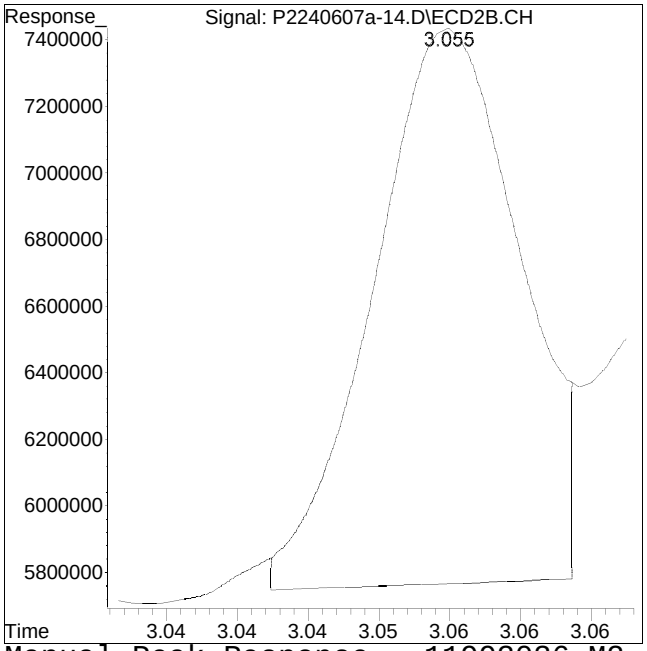
Original Peak Response = 18312990 Manual Peak Response = 17826253 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-14.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:35 Instrument : Pest 2
Sample : L2430219-06,42,, Quant Date : 6/7/2024 10:20 am

Compound #60: 1260-1 #2



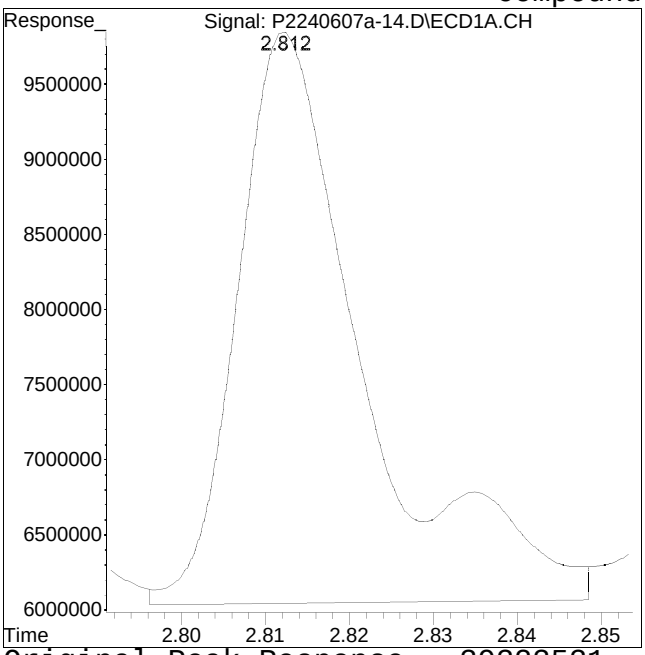


Original Peak Response = 19063455 Manual Peak Response = 11993036 M2
M2 = Peak not found by automatic integration algorithm.

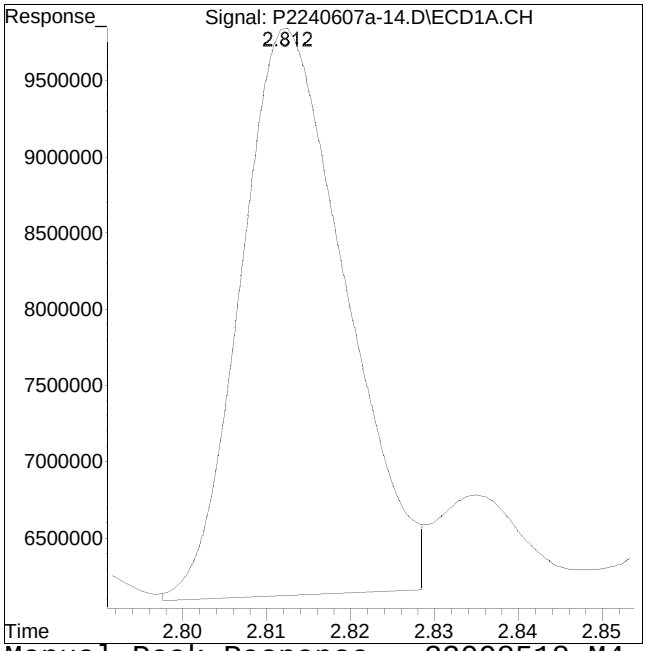
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-14.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:35 Instrument : Pest 2
Sample : L2430219-06,42,, Quant Date : 6/7/2024 10:20 am

Compound #10: 1260-2



Original Peak Response = 39323531



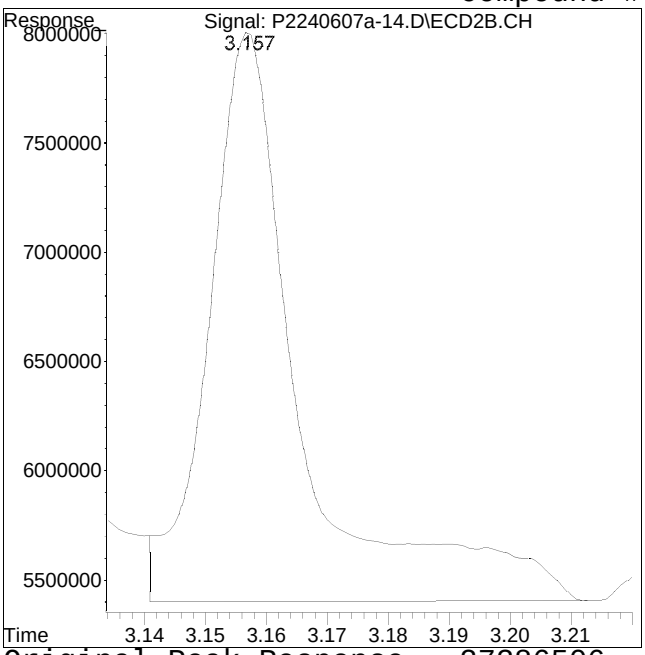
Manual Peak Response = 32098518 M4

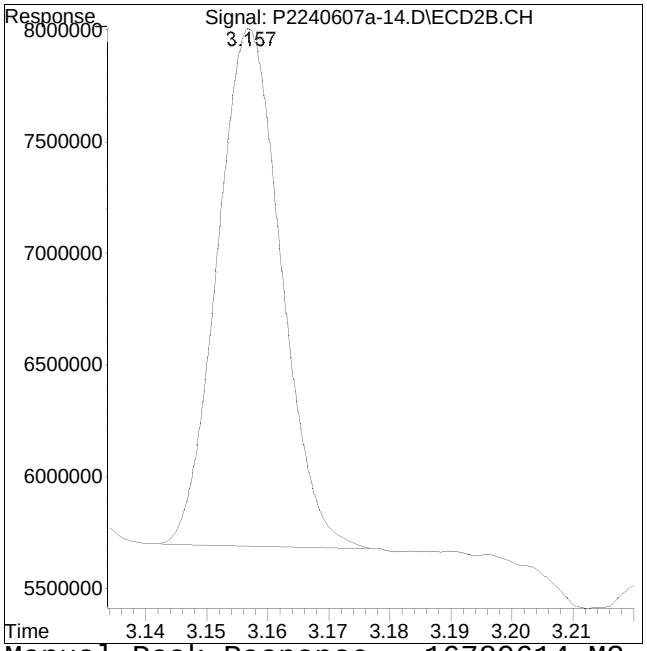
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-14.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:35 Instrument : Pest 2
Sample : L2430219-06,42,, Quant Date : 6/7/2024 10:20 am

Compound #61: 1260-2 #2



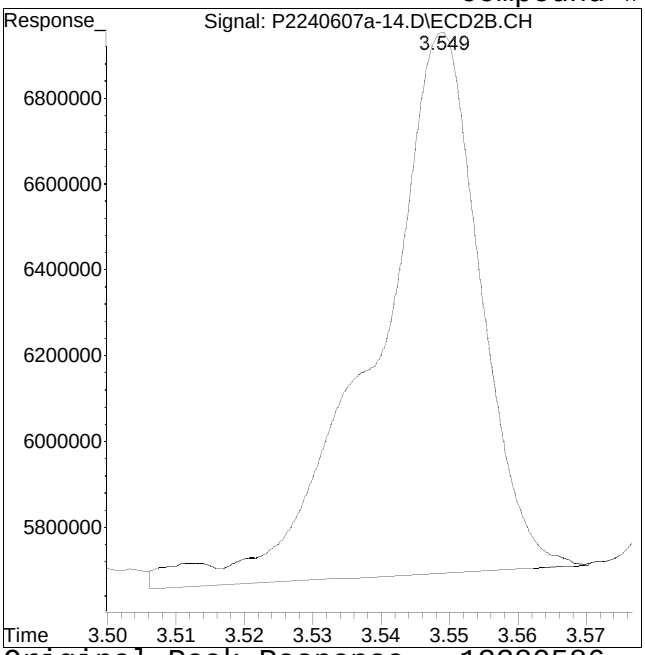


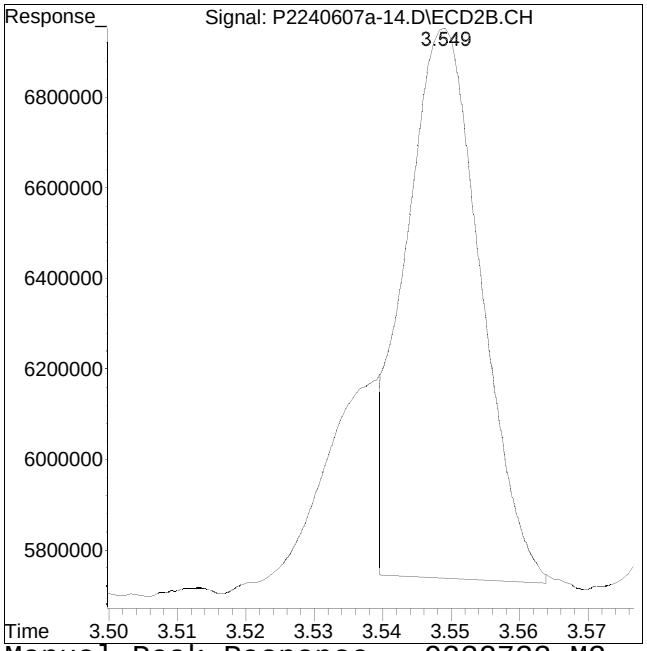
Original Peak Response = 27386506 Manual Peak Response = 16780614 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-14.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:35 Instrument : Pest 2
Sample : L2430219-06,42,, Quant Date : 6/7/2024 10:20 am

Compound #62: 1260-3 #2



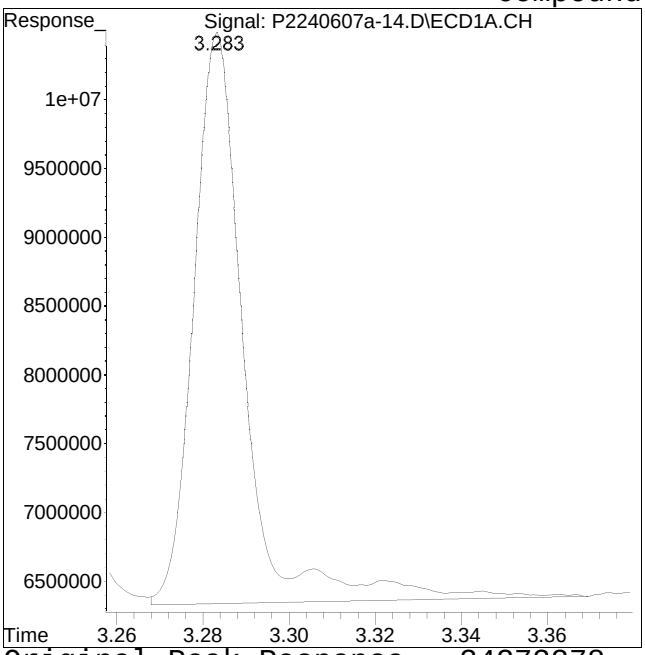


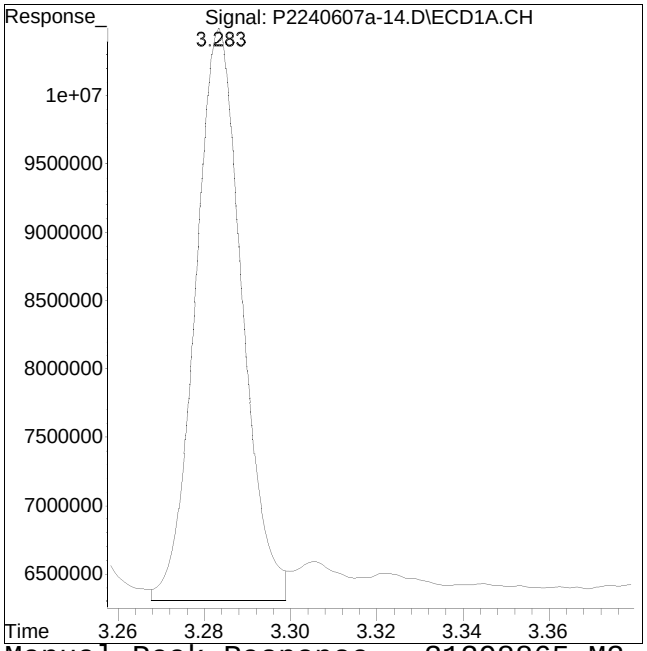
Original Peak Response = 13380586 Manual Peak Response = 9332733 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-14.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:35 Instrument : Pest 2
Sample : L2430219-06,42,, Quant Date : 6/7/2024 10:20 am

Compound #12: 1260-4



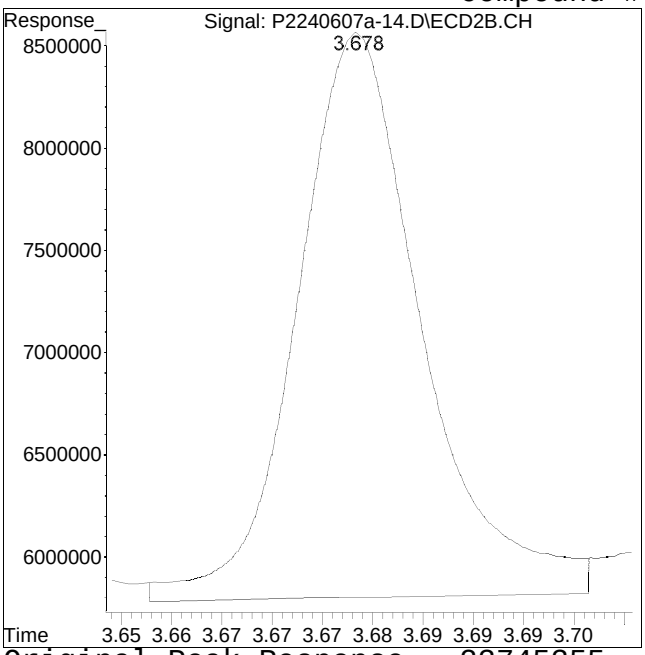


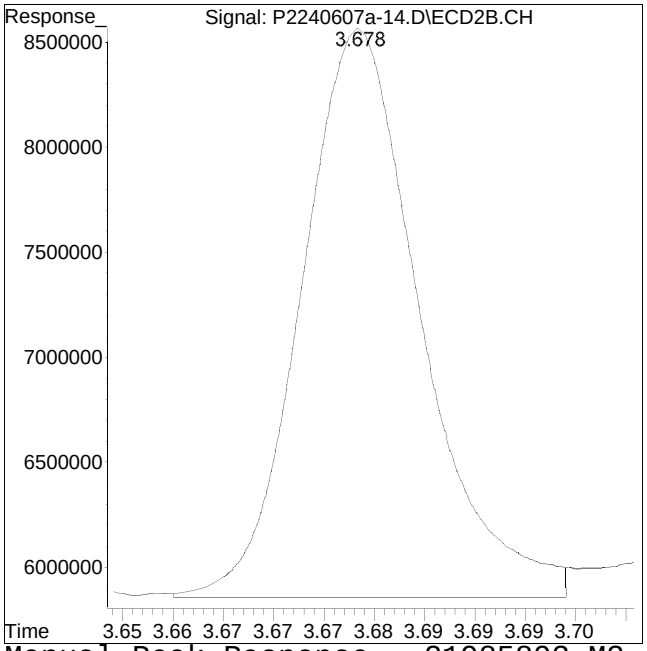
Original Peak Response = 34273278 Manual Peak Response = 31298865 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-14.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:35 Instrument : Pest 2
Sample : L2430219-06,42,, Quant Date : 6/7/2024 10:20 am

Compound #63: 1260-4 #2



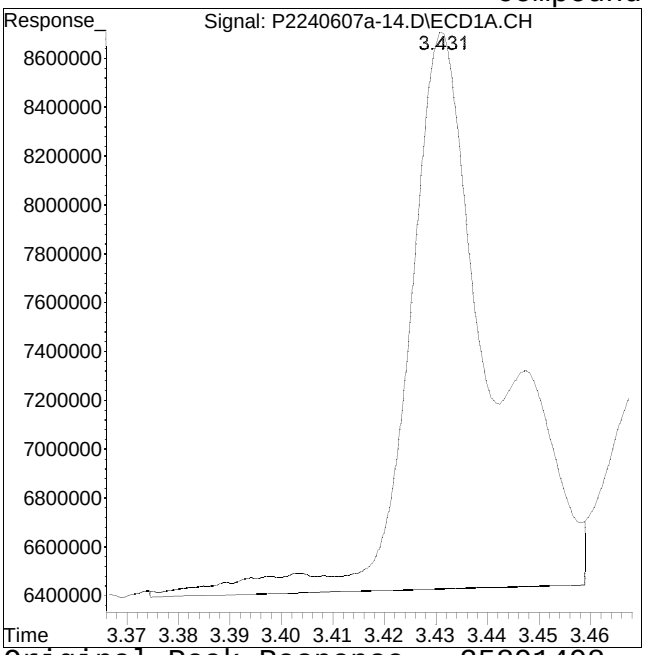


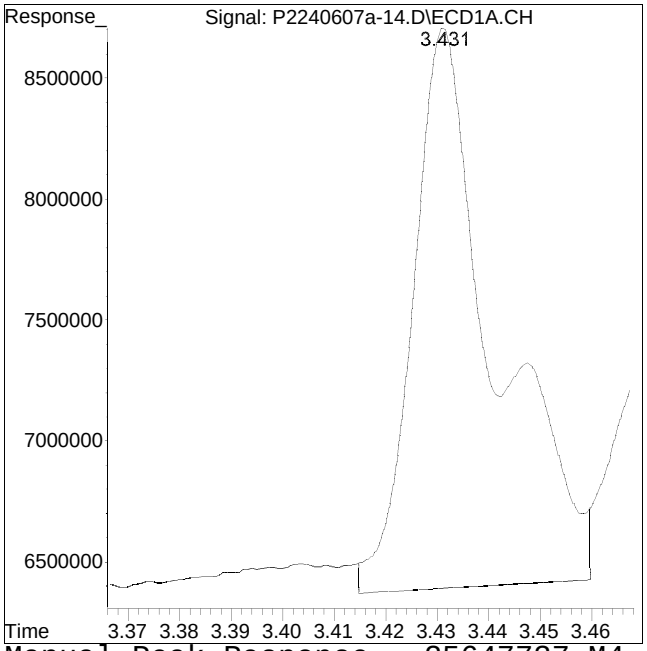
Original Peak Response = 23745355 Manual Peak Response = 21985893 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-14.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:35 Instrument : Pest 2
Sample : L2430219-06,42,, Quant Date : 6/7/2024 10:20 am

Compound #13: 1260-5



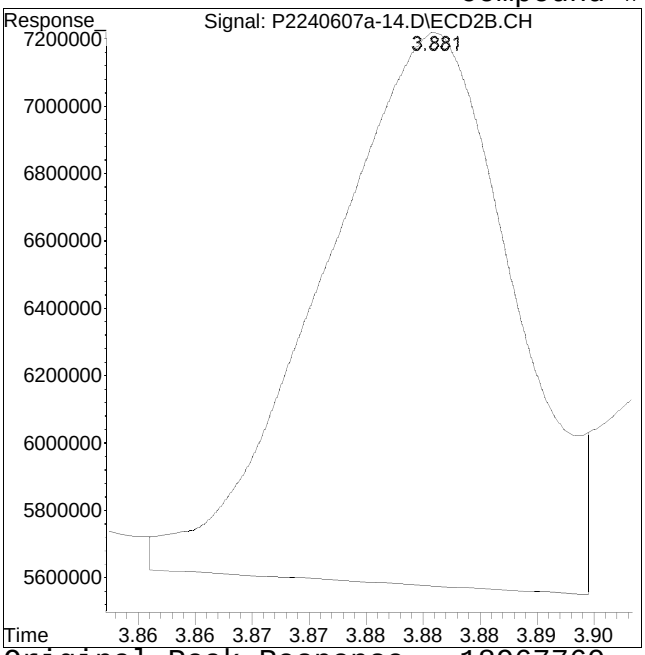


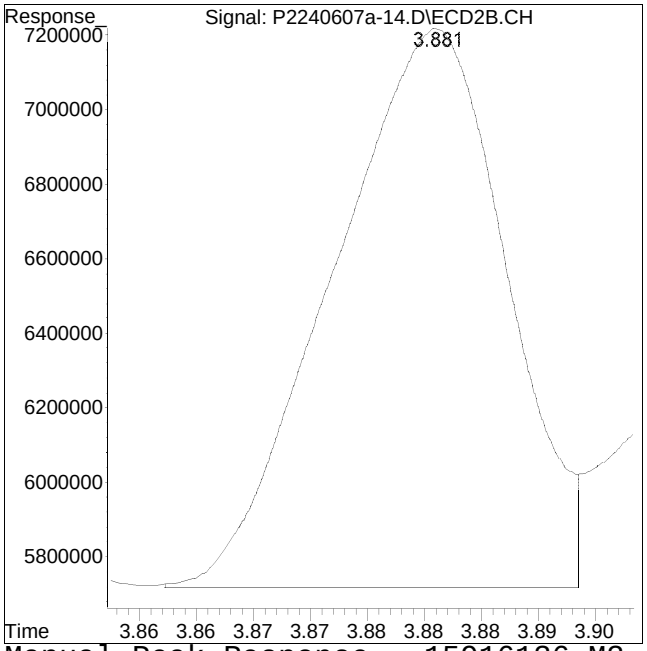
Original Peak Response = 25891498 Manual Peak Response = 25647737 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-14.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:35 Instrument : Pest 2
Sample : L2430219-06,42,, Quant Date : 6/7/2024 10:20 am

Compound #64: 1260-5 #2



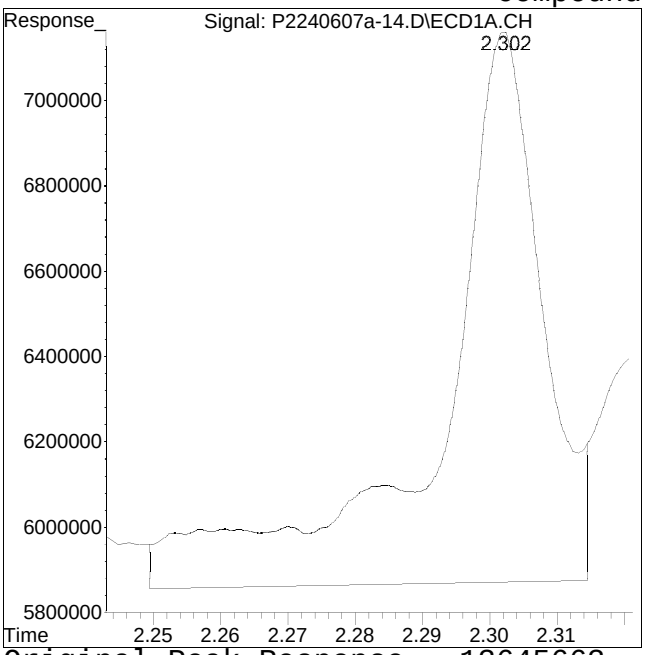


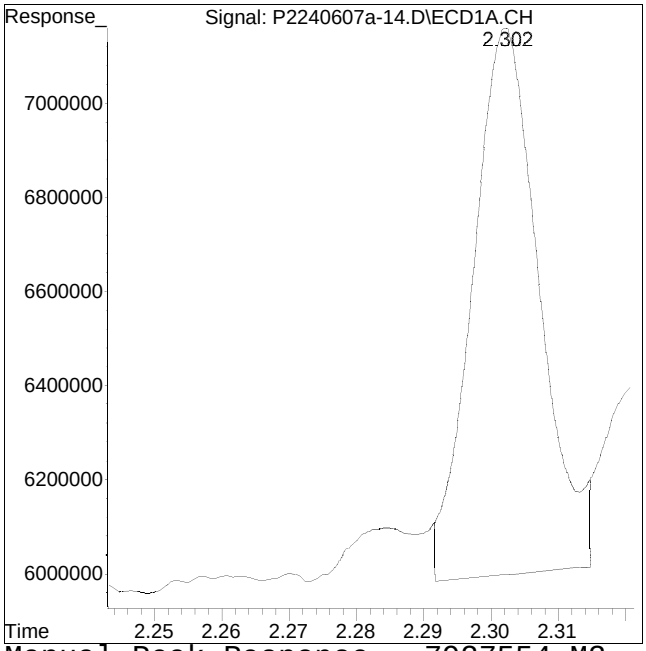
Original Peak Response = 18967760 Manual Peak Response = 15916136 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-14.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:35 Instrument : Pest 2
Sample : L2430219-06,42,, Quant Date : 6/7/2024 10:20 am

Compound #18: 1254-1



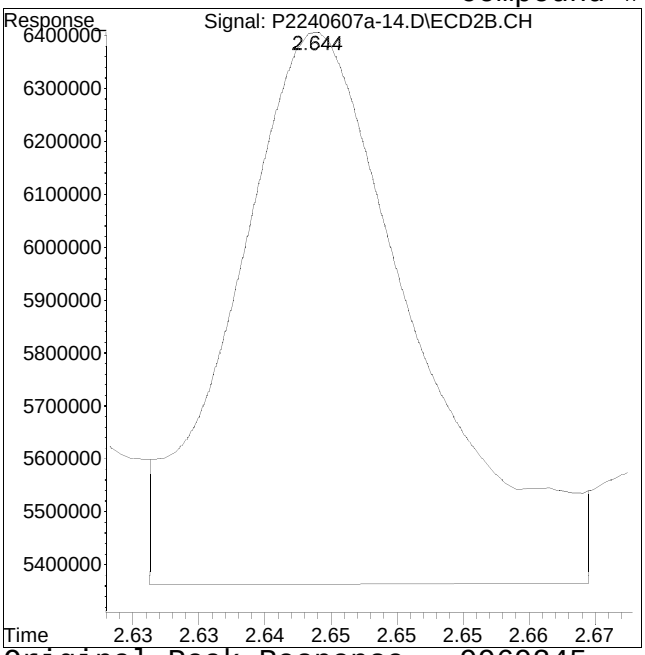


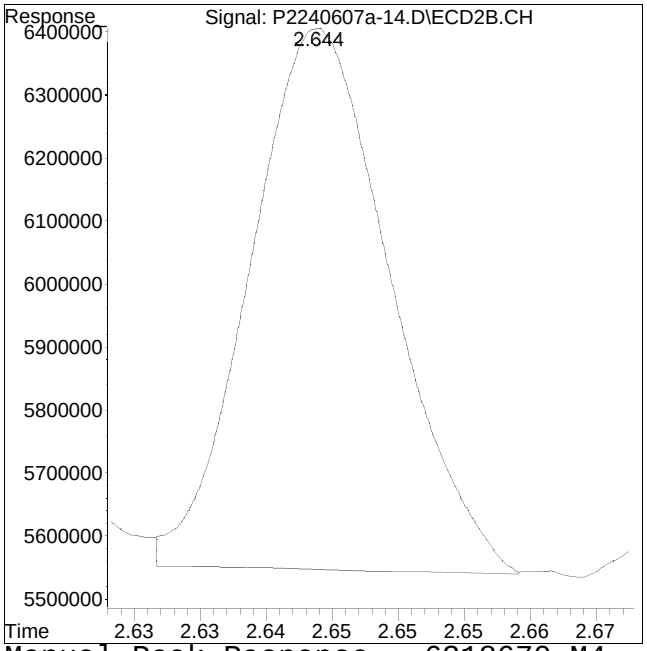
Original Peak Response = 13645663 Manual Peak Response = 7927554 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-14.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:35 Instrument : Pest 2
Sample : L2430219-06,42,, Quant Date : 6/7/2024 10:20 am

Compound #69: 1254-1 #2



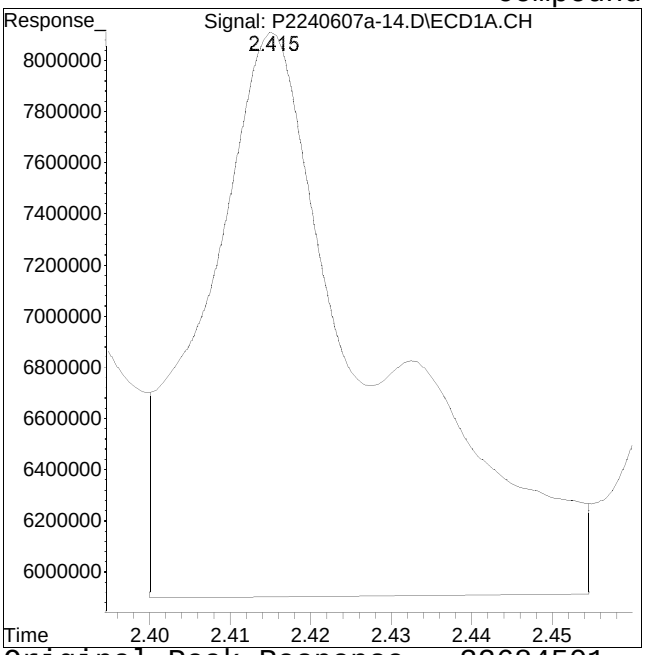


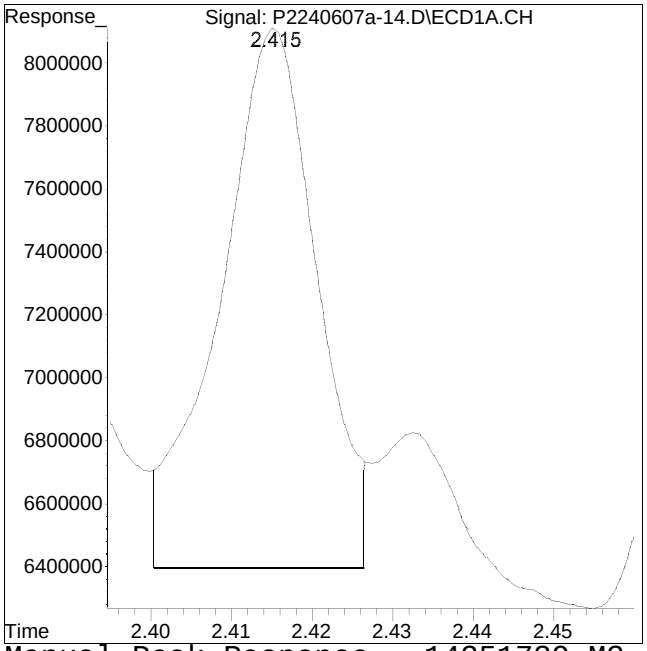
Original Peak Response = 9969245 Manual Peak Response = 6318670 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-14.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:35 Instrument : Pest 2
Sample : L2430219-06,42,, Quant Date : 6/7/2024 10:20 am

Compound #19: 1254-2



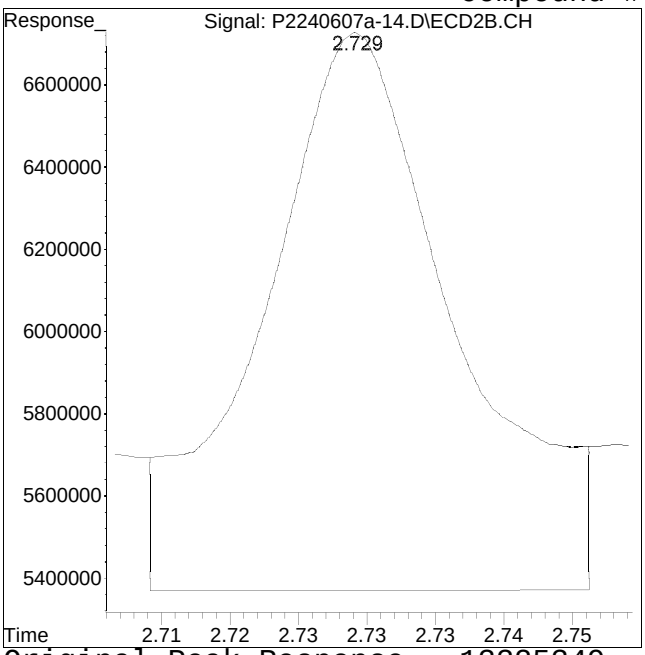


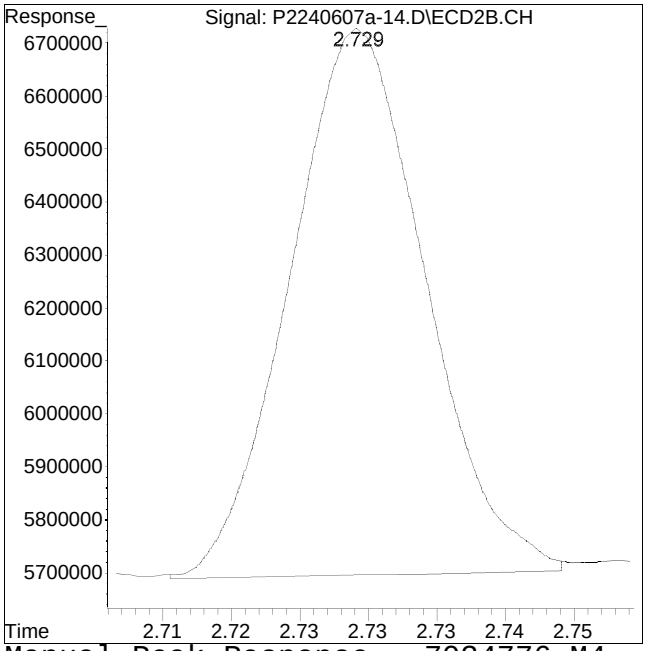
Original Peak Response = 32684501 Manual Peak Response = 14251739 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-14.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:35 Instrument : Pest 2
Sample : L2430219-06,42,, Quant Date : 6/7/2024 10:20 am

Compound #70: 1254-2 #2



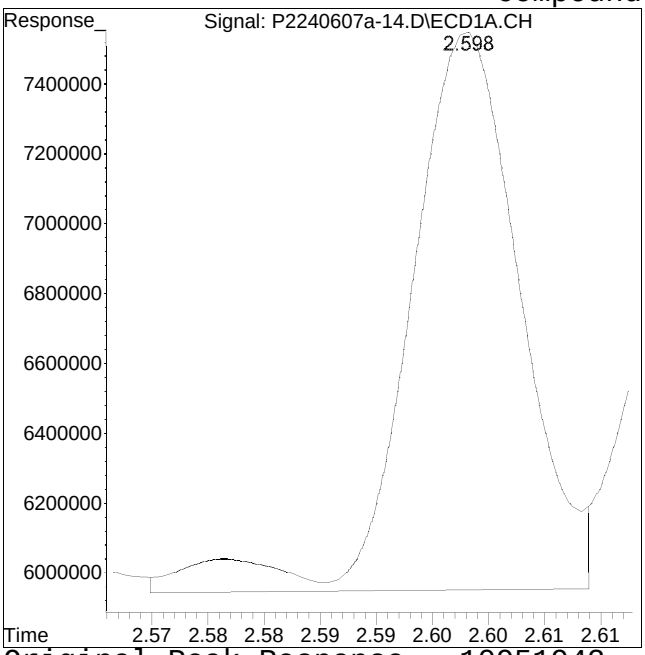


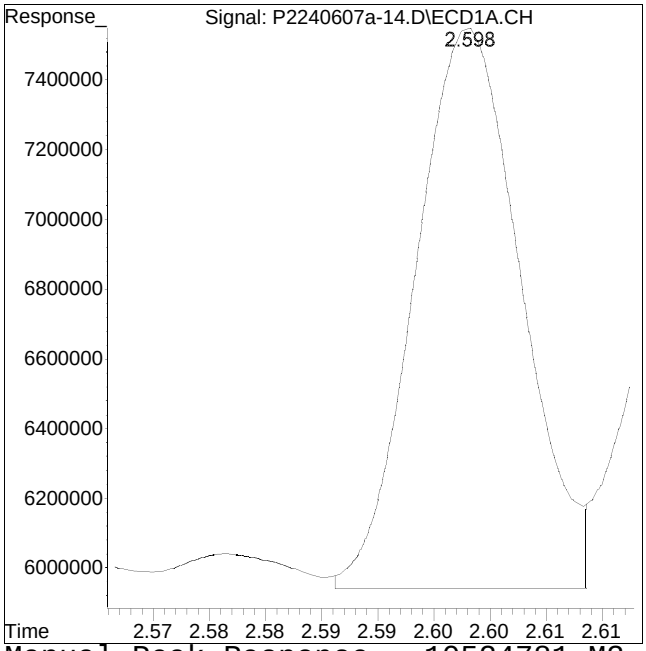
Original Peak Response = 13325349 Manual Peak Response = 7034776 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-14.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:35 Instrument : Pest 2
Sample : L2430219-06,42,, Quant Date : 6/7/2024 10:20 am

Compound #20: 1254-3



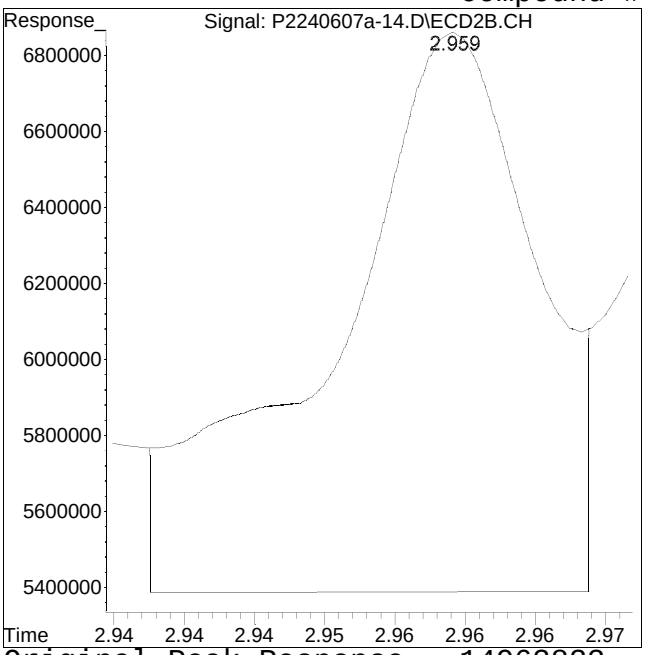


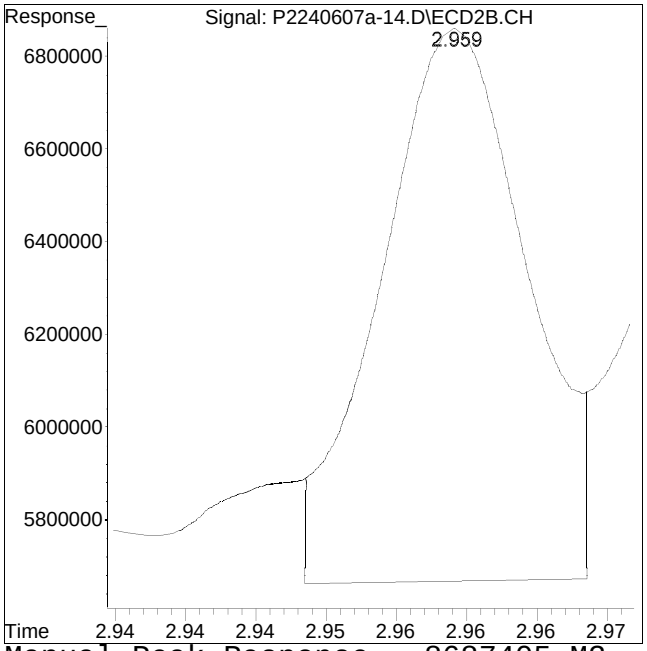
Original Peak Response = 10951942 Manual Peak Response = 10524781 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-14.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:35 Instrument : Pest 2
Sample : L2430219-06,42,, Quant Date : 6/7/2024 10:20 am

Compound #71: 1254-3 #2



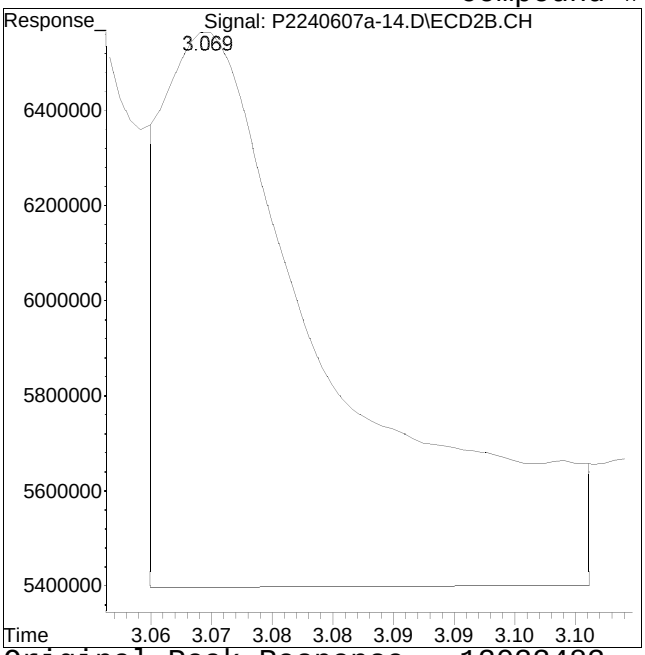


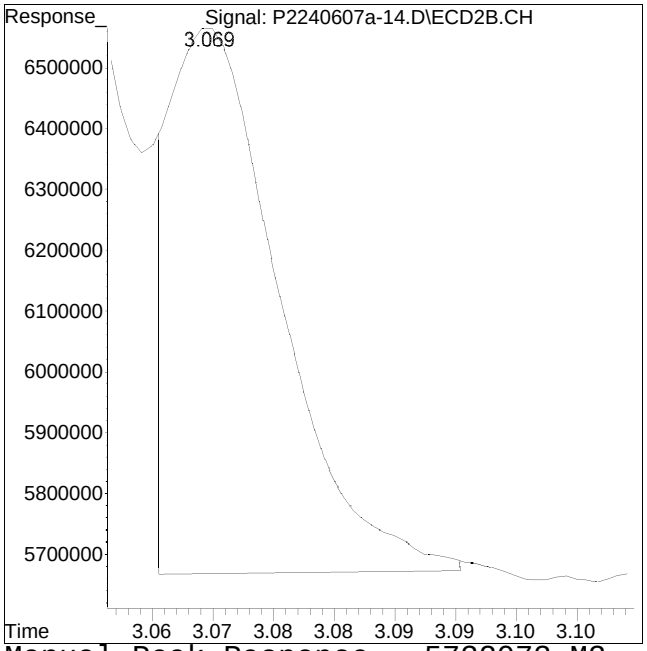
Original Peak Response = 14963833 Manual Peak Response = 8687405 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-14.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:35 Instrument : Pest 2
Sample : L2430219-06,42,, Quant Date : 6/7/2024 10:20 am

Compound #72: 1254-4 #2





Original Peak Response = 12033483 Manual Peak Response = 5732073 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 9:43
Operator : pest2:mhg
Sample : L2430219-07,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 10:20:22 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.158	1.228	418.3E6	255.6E6	25.000M3	25.000M4
	Standard Area 1 : #1 = 477774528				Recovery =	87.55%	
	Standard Area 1 : #2 = 323810098				Recovery =	78.95%	
14) i	2154_1br2nb	1.158	1.228	418.3E6	255.6E6	25.000M3	25.000M4
23) i	4268_1br2nb	1.158	1.228	418.3E6	255.6E6	25.000M3	25.000M4
34) i	1248_1br2nb	1.158	1.228	418.3E6	255.6E6	25.000M3	25.000M4
40) i	3262_1br2nb	1.158	1.228	418.3E6	255.6E6	25.000M3	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.444	1.602	361.9E6	208.2E6	16.499	16.529M4
	Spiked Amount 20.000	Range 30 - 150			Recovery =	82.49%	82.64%
3) s	Decachlorobi	4.016	4.529	272.3E6	148.7E6	19.216	25.070M3
	Spiked Amount 20.000	Range 30 - 150			Recovery =	96.08%	125.35%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	2.681	3.055	15346926	10079004	14.209M3	18.265M2

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 9:43
Operator : pest2:mhg
Sample : L2430219-07,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 10:20:22 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
10) l2 1260-2	2.812	3.157	28590302	14885682	17.561M2	23.574M2
11) l2 1260-3	3.128	3.549	8623771	8574165	8.526M2	17.511M3
12) l2 1260-4	3.283	3.679	26410980	19822716	12.186M3	20.140M4
13) l2 1260-5	3.431	3.880	22388592	14042971	14.739M4	20.810M4
Sum 1260-1			101.4E6	67404539	67.221	100.299
Average 1260-1					13.444	20.060
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	2.302	0.000	7668933	0	9.126M3	N.D. d
19) l4 1254-2	2.414	2.730	12331498	5582190	8.231M3	10.402M3
20) l4 1254-3	2.598	2.959	9508325	7098478	5.976	8.957M4
21) l4 1254-4	2.727	3.070	8870888	4709649	7.967M4	9.611M3
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			38379644	17390318	31.300	28.970
Average 1254-1					7.825	9.657
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 9:43
Operator : pest2:mhg
Sample : L2430219-07,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 10:20:22 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 9:43
Operator : pest2:mhg
Sample : L2430219-07,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 10:20:22 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

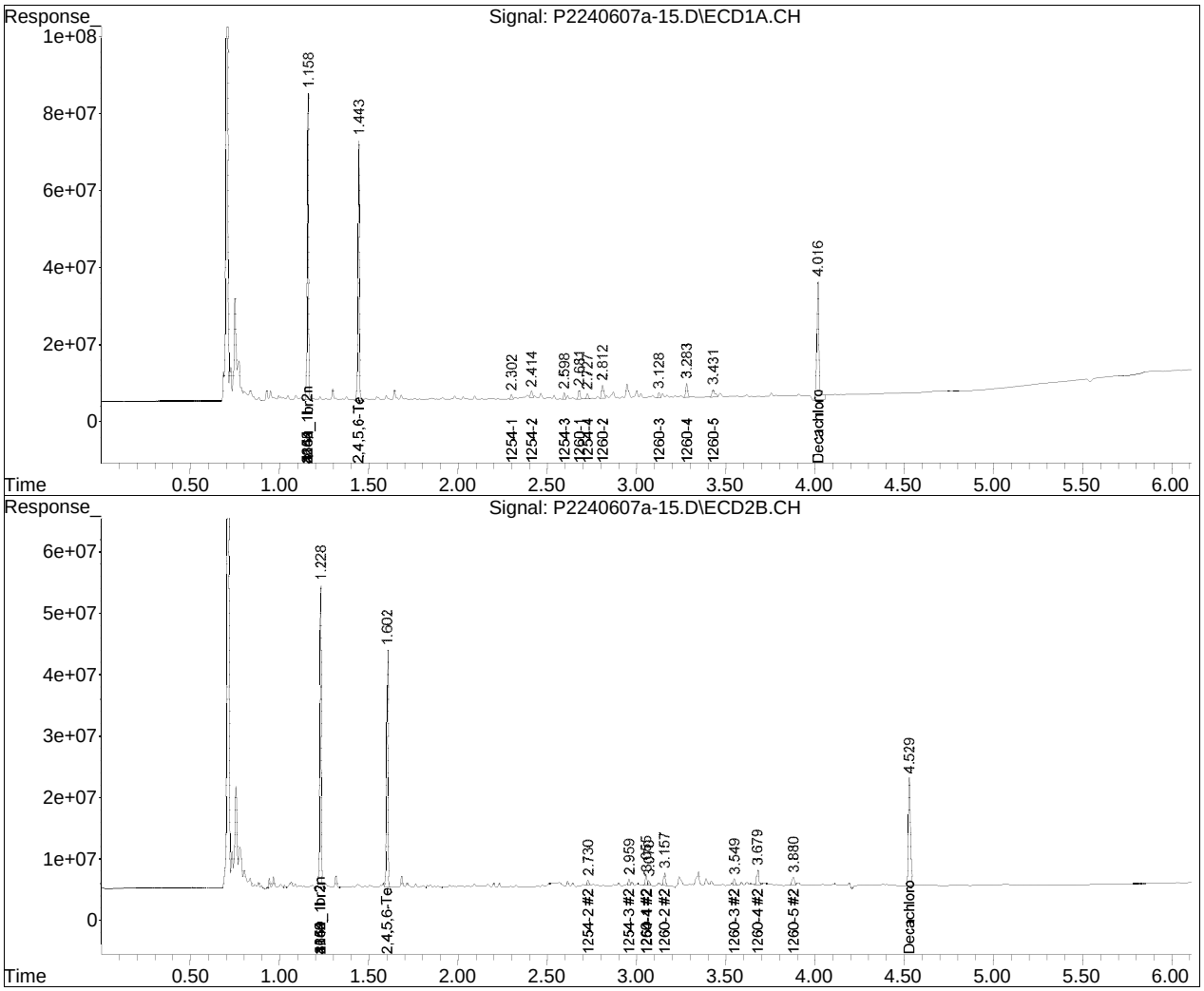
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

Sub List : Default - All compounds listedP2240607a-02.D•

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 9:43
Operator : pest2:mhg
Sample : L2430219-07,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 10:20:22 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

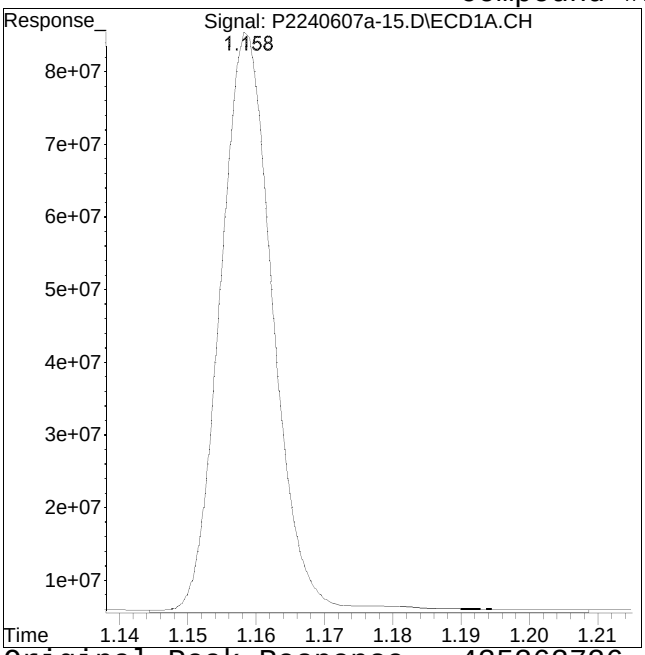
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

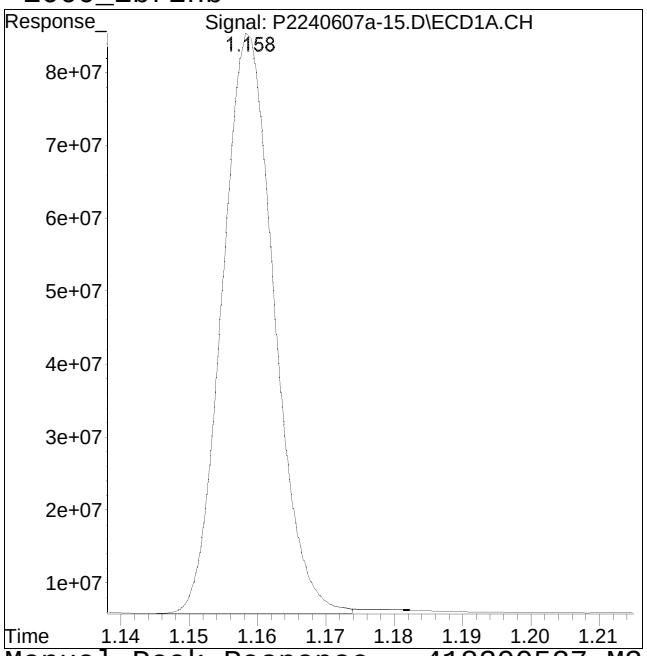


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-15.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:43 Instrument : Pest 2
Sample : L2430219-07,42,, Quant Date : 6/7/2024 10:20 am

Compound #1: 1660_1br2nb



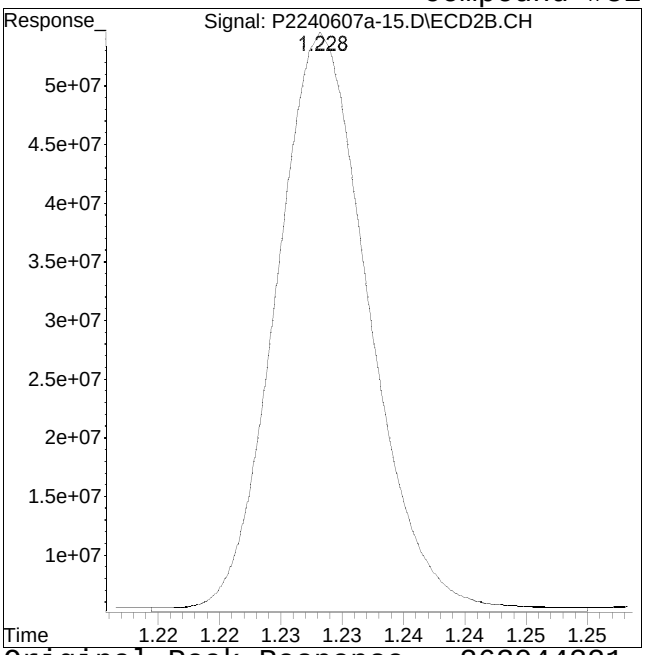


Original Peak Response = 435362726 Manual Peak Response = 418300527 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

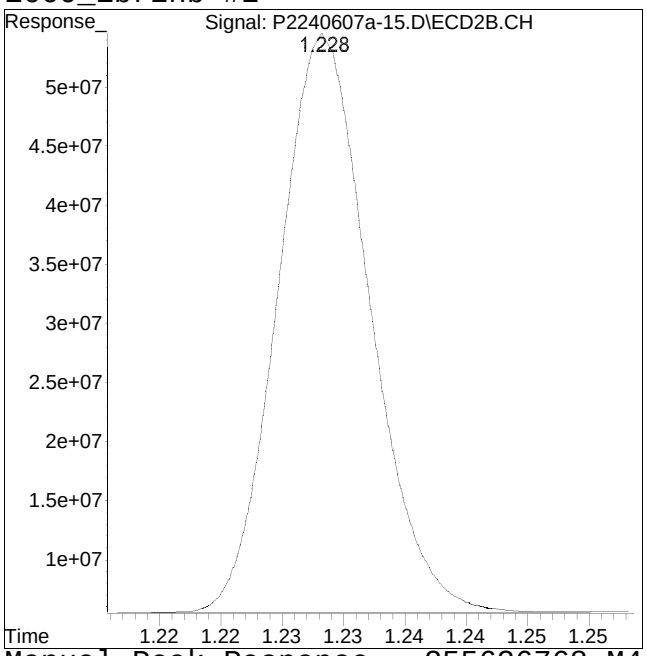
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-15.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:43 Instrument : Pest 2
Sample : L2430219-07,42,, Quant Date : 6/7/2024 10:20 am

Compound #52: 1660_1br2nb #2



Original Peak Response = 263044321



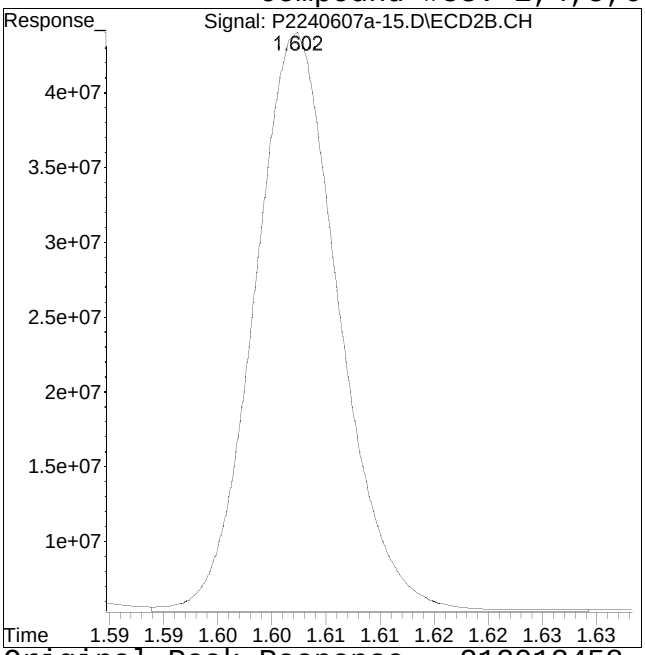
Manual Peak Response = 255636768 M4

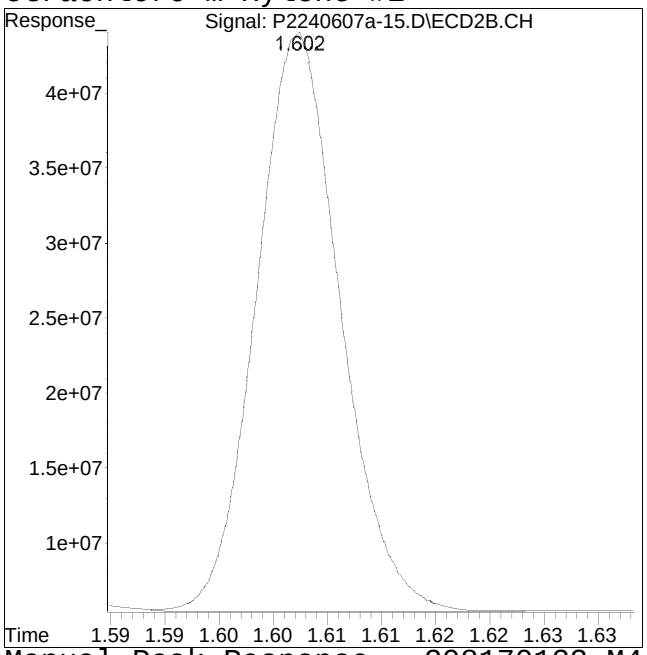
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-15.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:43 Instrument : Pest 2
Sample : L2430219-07,42,, Quant Date : 6/7/2024 10:20 am

Compound #53: 2,4,5,6-Tetrachloro-m-xylene #2



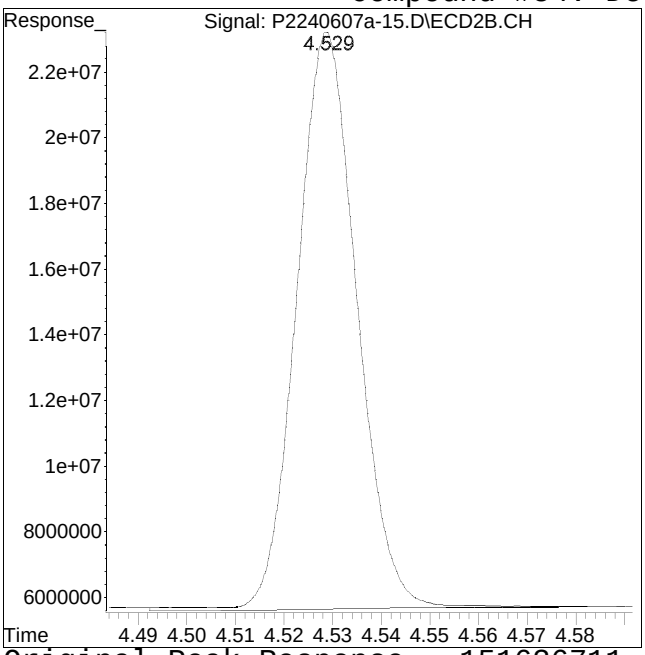


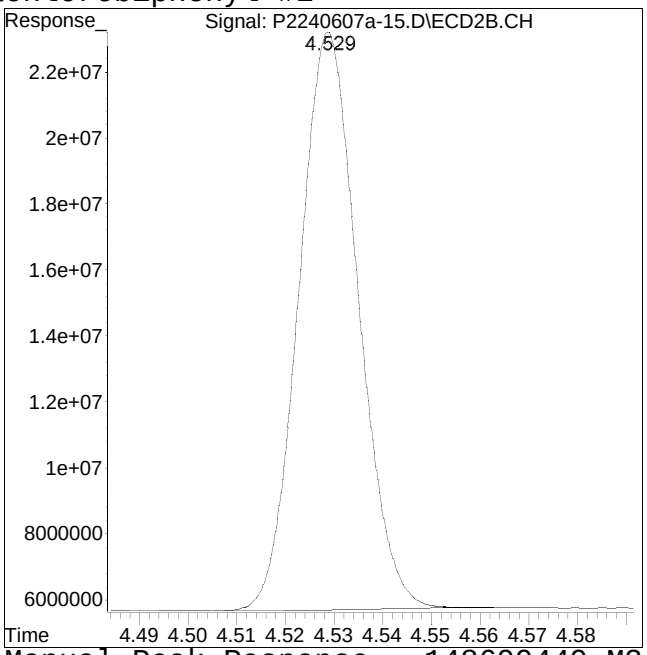
Original Peak Response = 212012458 Manual Peak Response = 208170123 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-15.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:43 Instrument : Pest 2
Sample : L2430219-07,42,, Quant Date : 6/7/2024 10:20 am

Compound #54: Decachlorobiphenyl #2



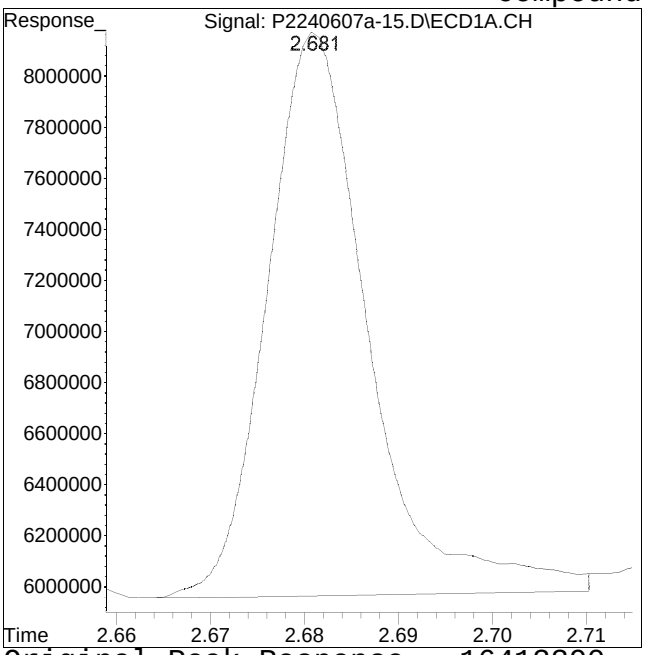


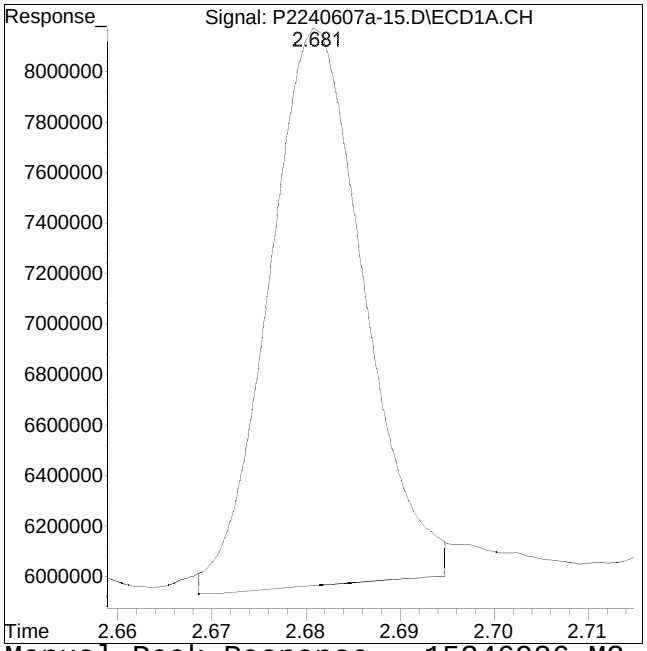
Original Peak Response = 151636711 Manual Peak Response = 148699449 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-15.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:43 Instrument : Pest 2
Sample : L2430219-07,42,, Quant Date : 6/7/2024 10:20 am

Compound #9: 1260-1



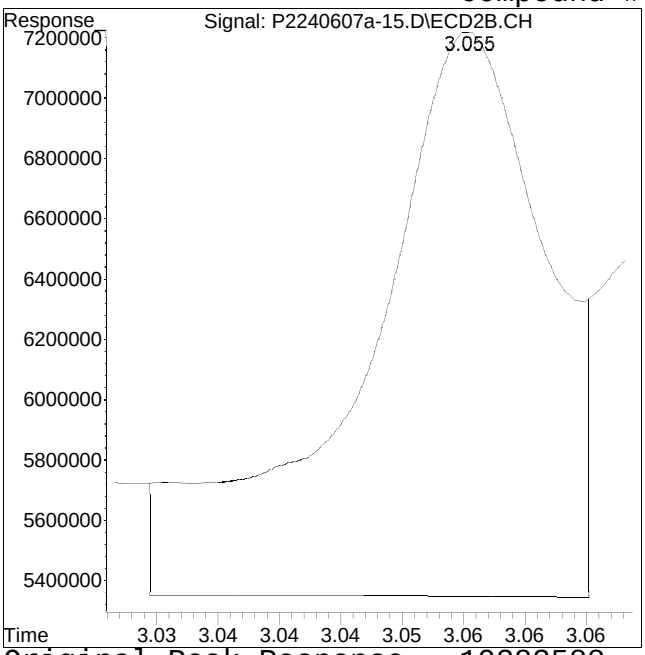


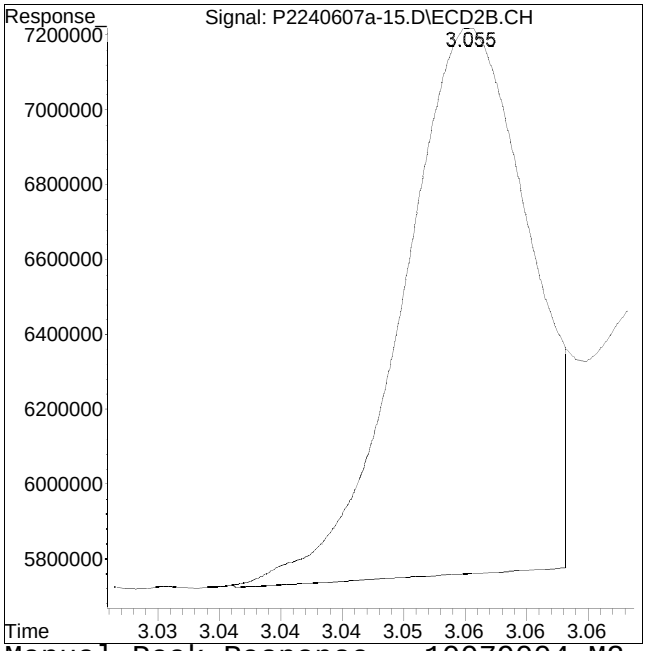
Original Peak Response = 16413390 Manual Peak Response = 15346926 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-15.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:43 Instrument : Pest 2
Sample : L2430219-07,42,, Quant Date : 6/7/2024 10:20 am

Compound #60: 1260-1 #2



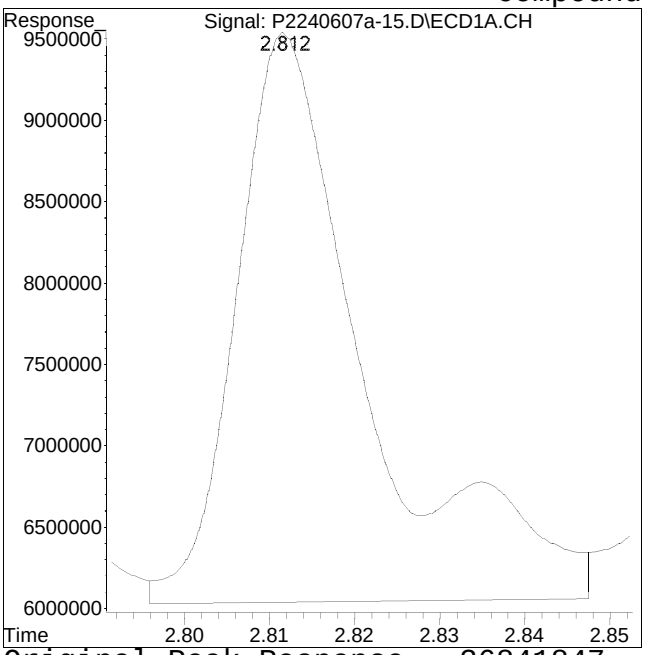


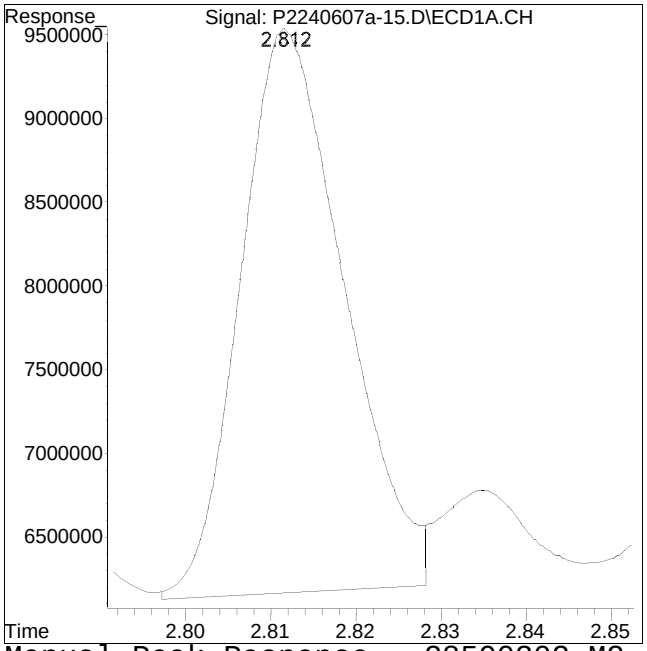
Original Peak Response = 19383588 Manual Peak Response = 10079004 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-15.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:43 Instrument : Pest 2
Sample : L2430219-07,42,, Quant Date : 6/7/2024 10:20 am

Compound #10: 1260-2



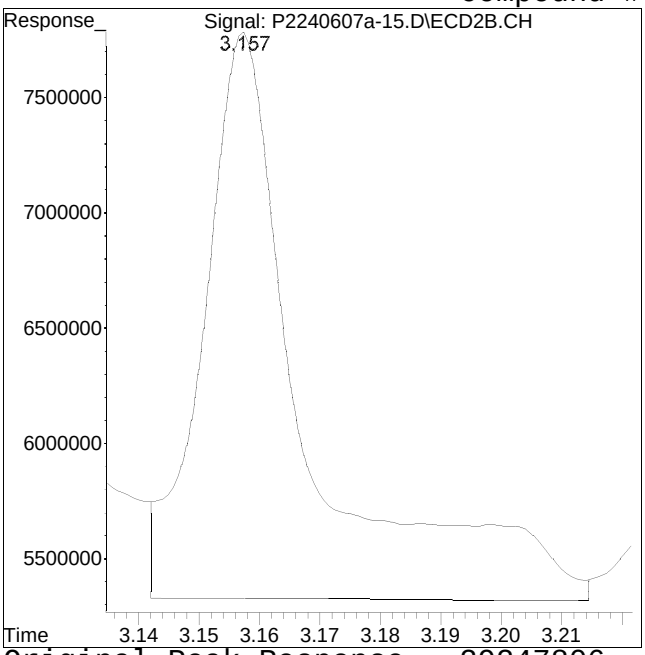


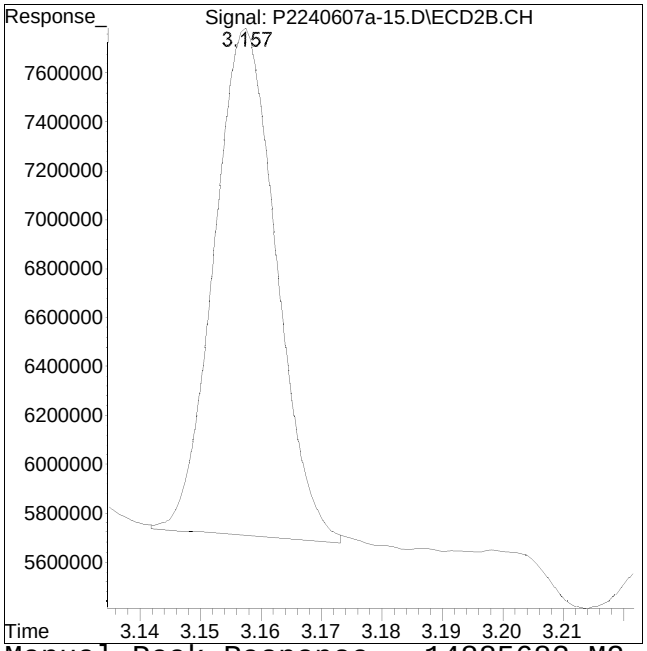
Original Peak Response = 36841847 Manual Peak Response = 28590302 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-15.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:43 Instrument : Pest 2
Sample : L2430219-07,42,, Quant Date : 6/7/2024 10:20 am

Compound #61: 1260-2 #2



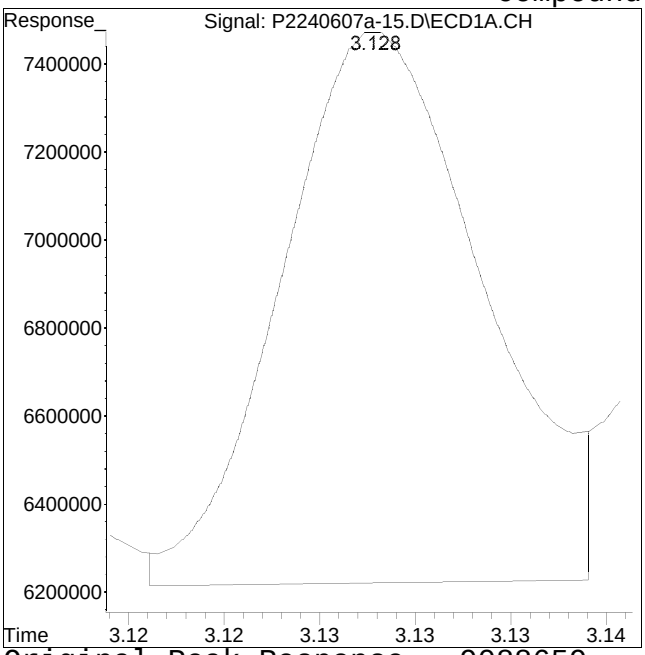


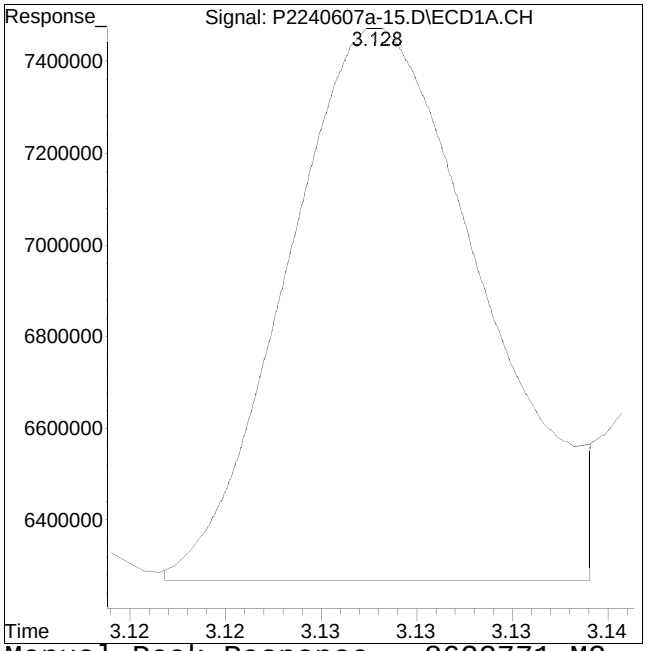
Original Peak Response = 29247806 Manual Peak Response = 14885682 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-15.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:43 Instrument : Pest 2
Sample : L2430219-07,42,, Quant Date : 6/7/2024 10:20 am

Compound #11: 1260-3



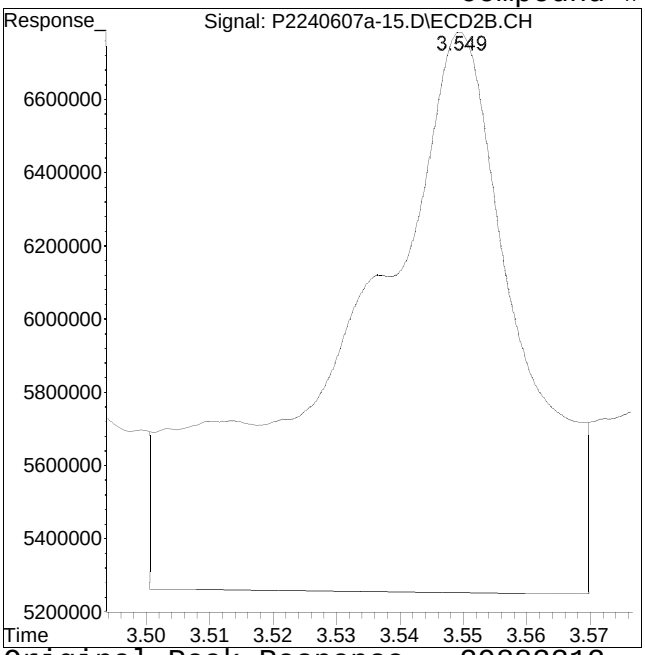


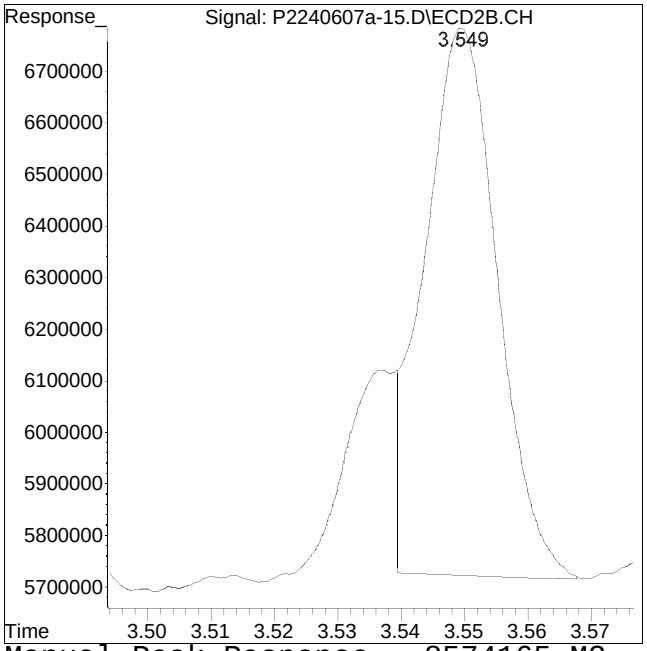
Original Peak Response = 9088659 Manual Peak Response = 8623771 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-15.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:43 Instrument : Pest 2
Sample : L2430219-07,42,, Quant Date : 6/7/2024 10:20 am

Compound #62: 1260-3 #2



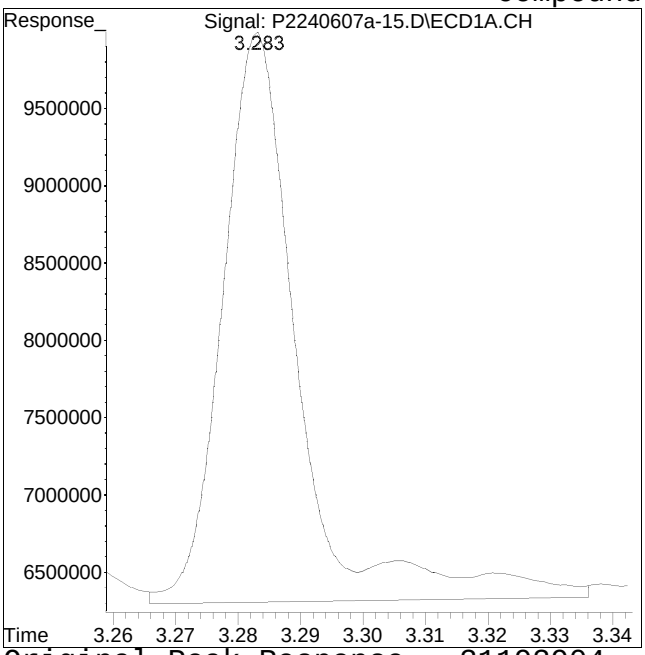


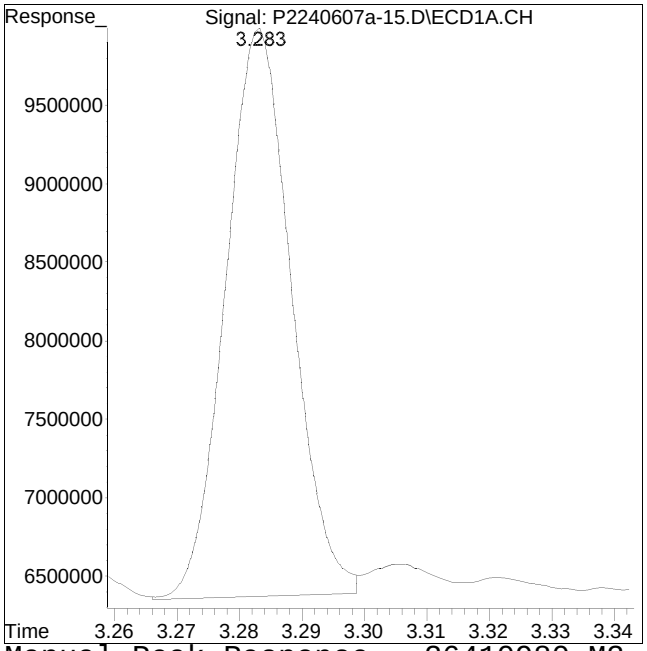
Original Peak Response = 29883312 Manual Peak Response = 8574165 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-15.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:43 Instrument : Pest 2
Sample : L2430219-07,42,, Quant Date : 6/7/2024 10:20 am

Compound #12: 1260-4



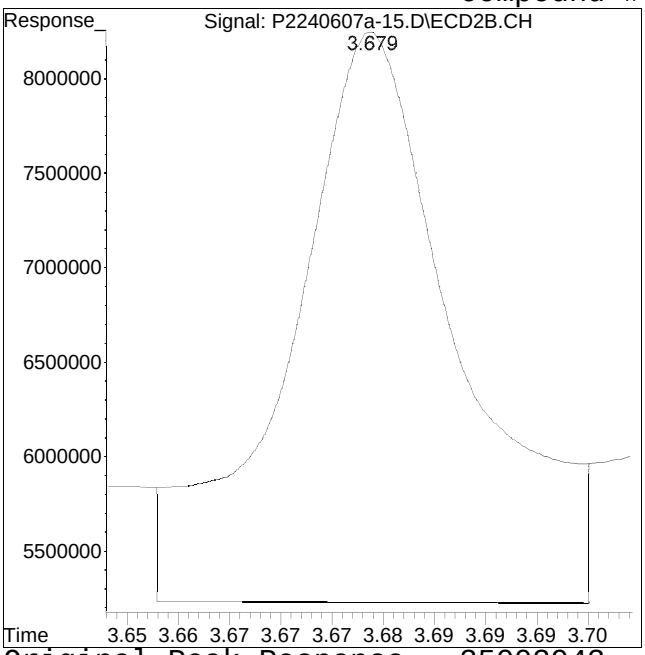


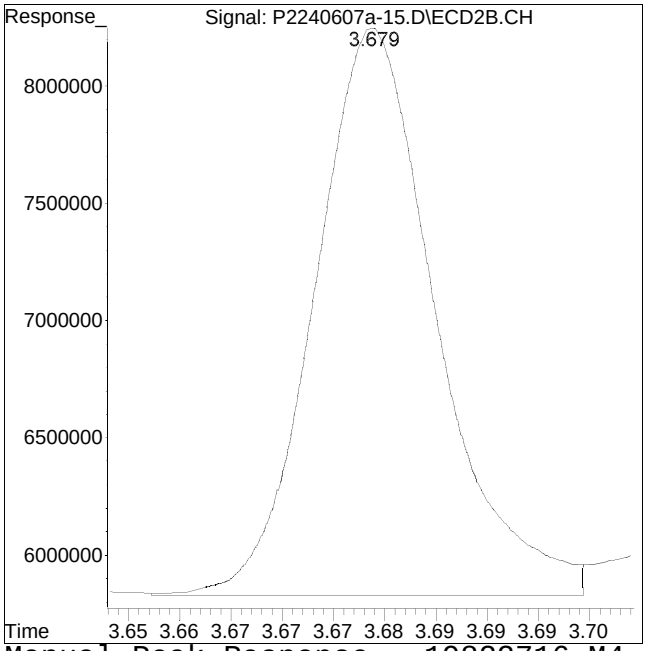
Original Peak Response = 31193904 Manual Peak Response = 26410980 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-15.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:43 Instrument : Pest 2
Sample : L2430219-07,42,, Quant Date : 6/7/2024 10:20 am

Compound #63: 1260-4 #2



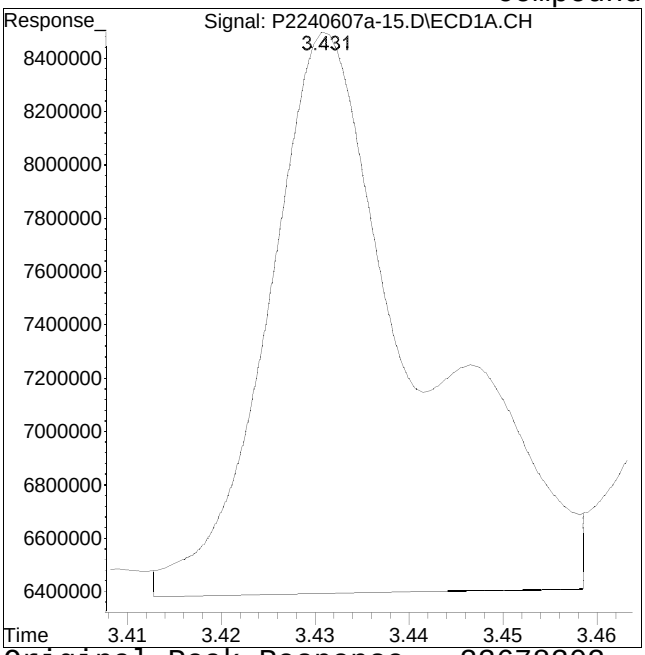


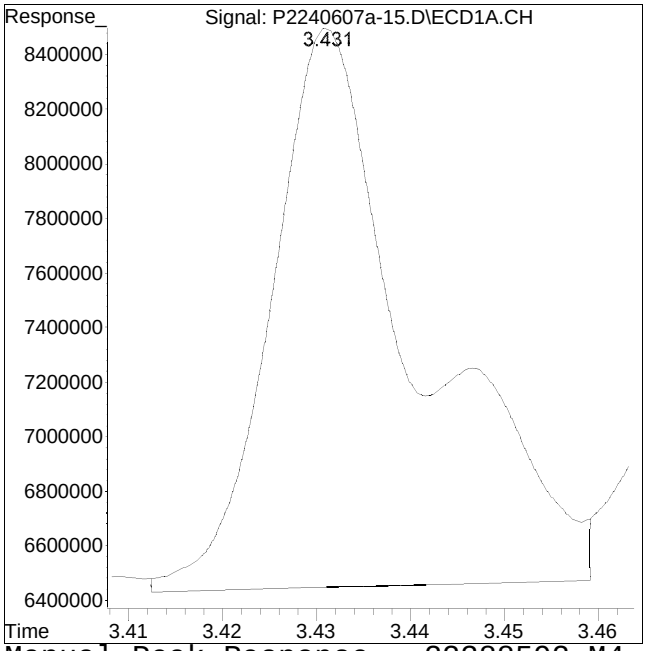
Original Peak Response = 35003943 Manual Peak Response = 19822716 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-15.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:43 Instrument : Pest 2
Sample : L2430219-07,42,, Quant Date : 6/7/2024 10:20 am

Compound #13: 1260-5



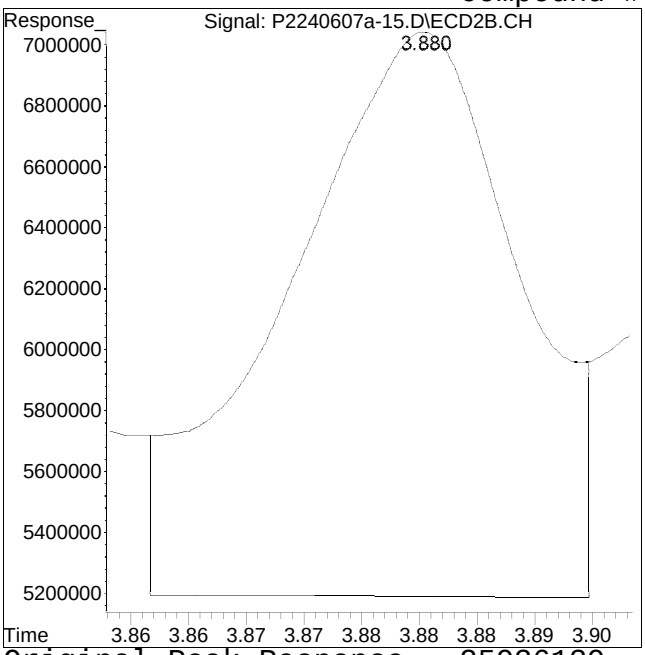


Original Peak Response = 23678302 Manual Peak Response = 22388592 M4
M4 = Poor automated baseline construction.

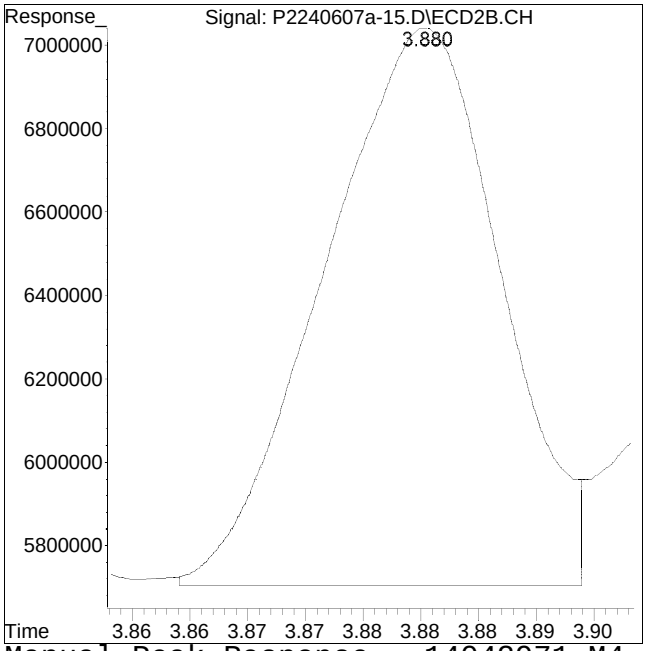
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-15.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:43 Instrument : Pest 2
Sample : L2430219-07,42,, Quant Date : 6/7/2024 10:20 am

Compound #64: 1260-5 #2



Original Peak Response = 25936139



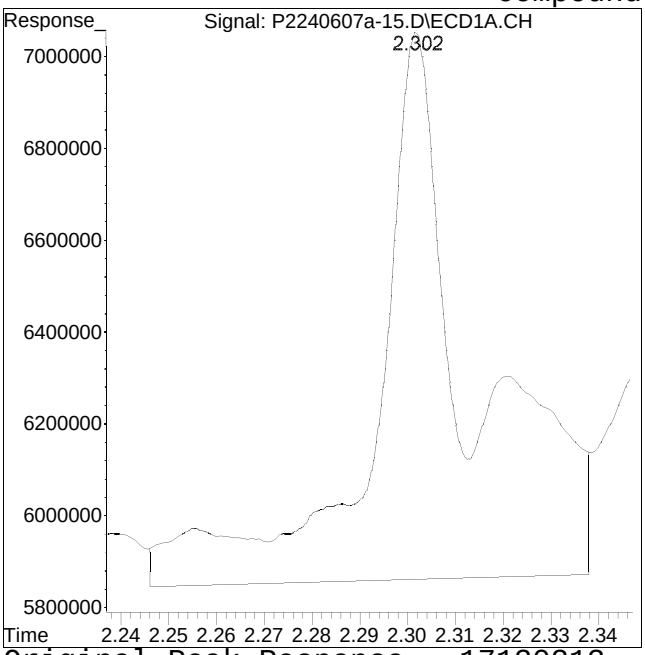
Manual Peak Response = 14042971 M4

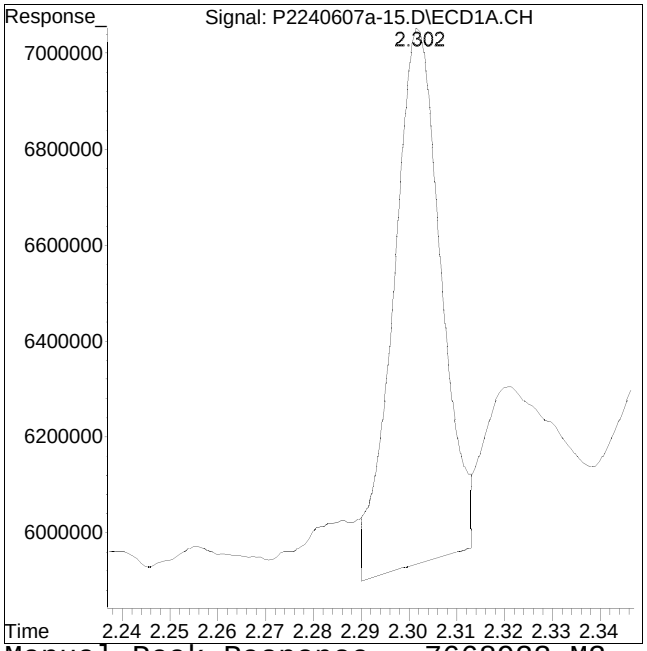
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-15.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:43 Instrument : Pest 2
Sample : L2430219-07,42,, Quant Date : 6/7/2024 10:20 am

Compound #18: 1254-1



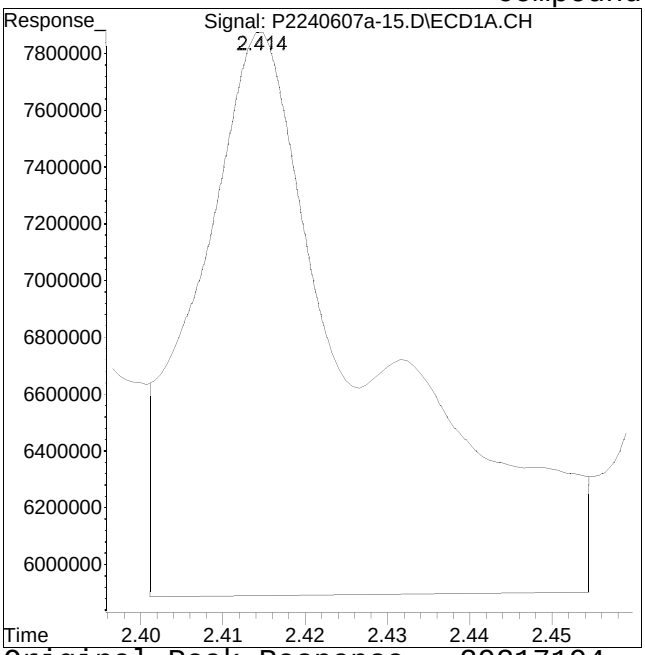


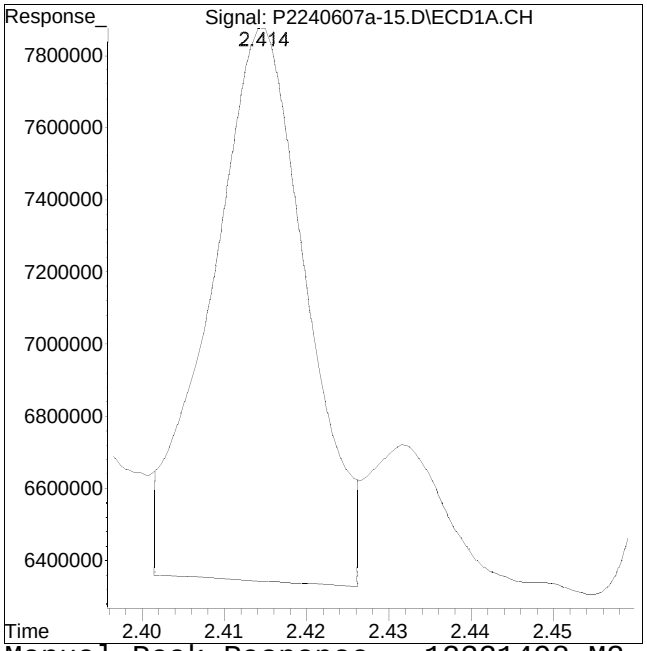
Original Peak Response = 17130213 Manual Peak Response = 7668933 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-15.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:43 Instrument : Pest 2
Sample : L2430219-07,42,, Quant Date : 6/7/2024 10:20 am

Compound #19: 1254-2



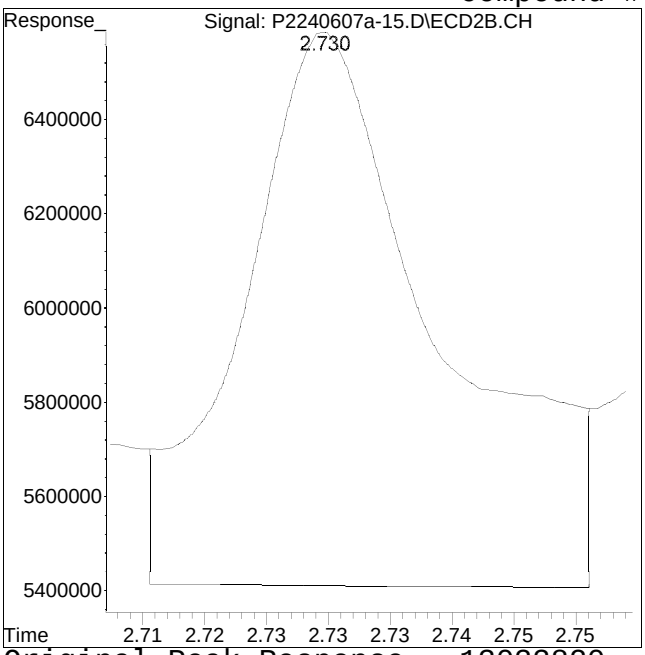


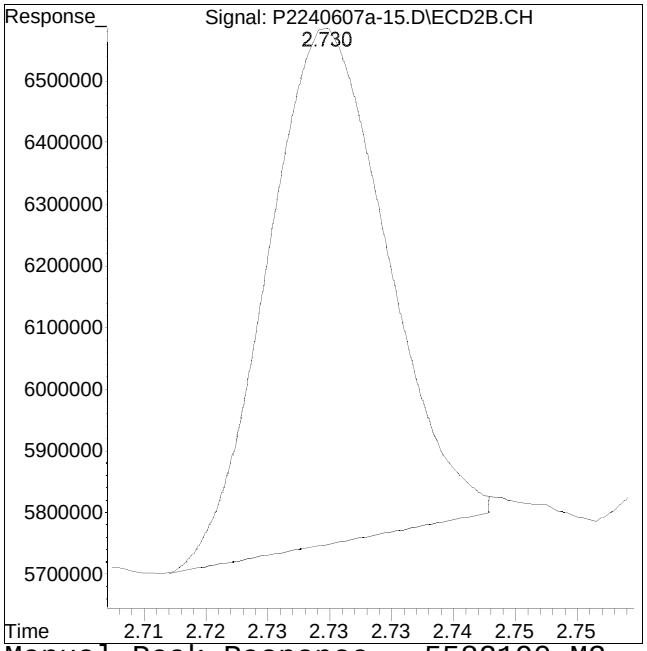
Original Peak Response = 29217194 Manual Peak Response = 12331498 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-15.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:43 Instrument : Pest 2
Sample : L2430219-07,42,, Quant Date : 6/7/2024 10:20 am

Compound #70: 1254-2 #2



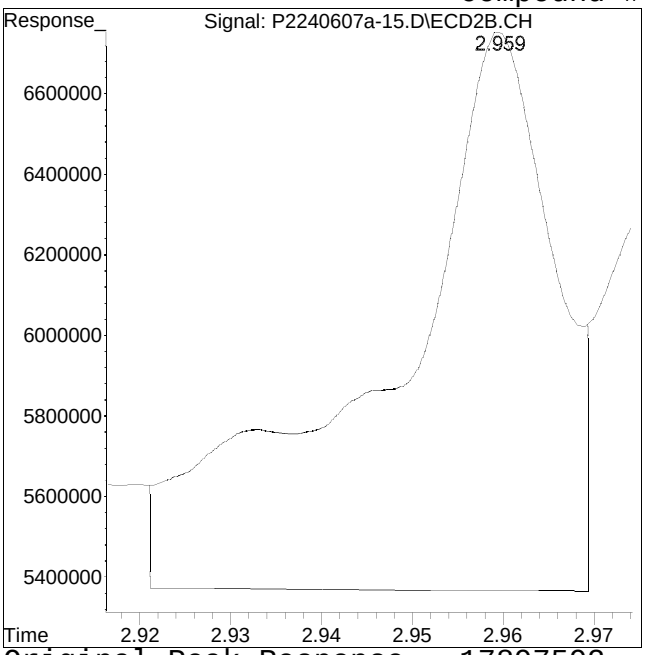


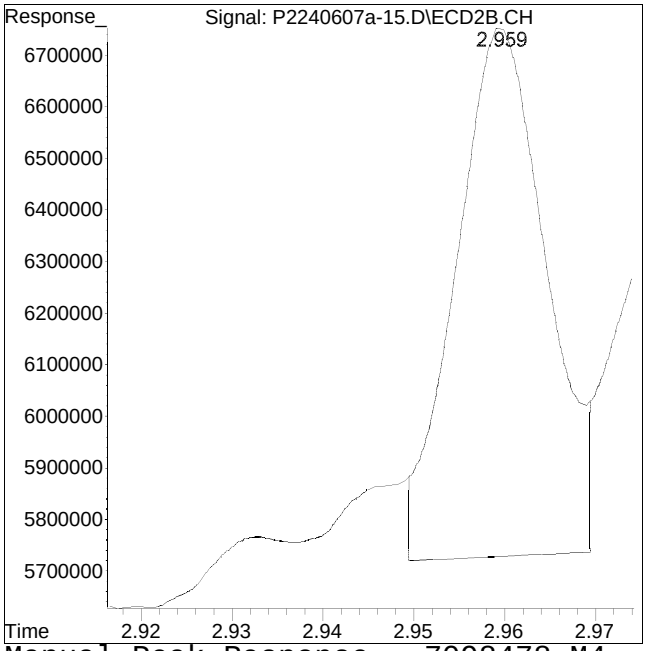
Original Peak Response = 13033820 Manual Peak Response = 5582190 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-15.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:43 Instrument : Pest 2
Sample : L2430219-07,42,, Quant Date : 6/7/2024 10:20 am

Compound #71: 1254-3 #2



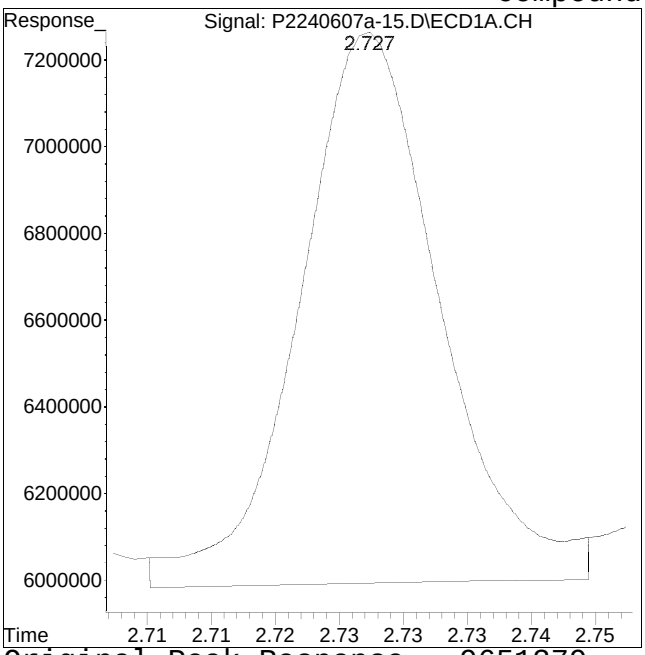


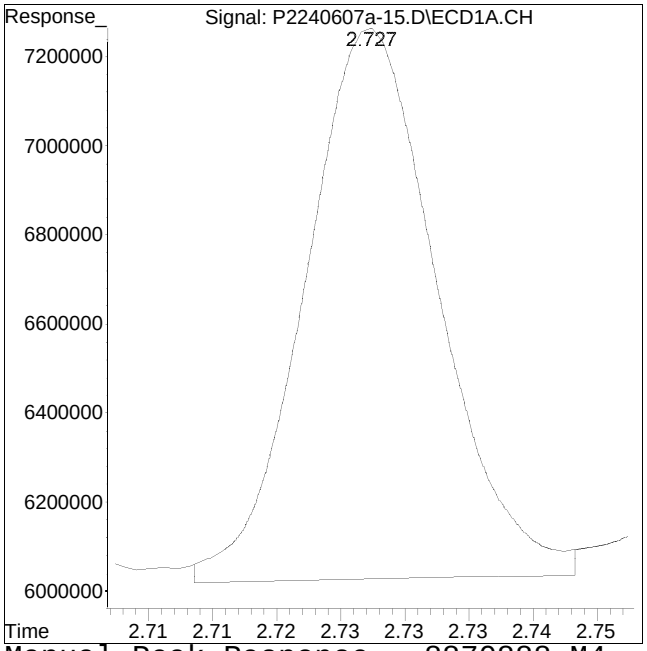
Original Peak Response = 17897592 Manual Peak Response = 7098478 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-15.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:43 Instrument : Pest 2
Sample : L2430219-07,42,, Quant Date : 6/7/2024 10:20 am

Compound #21: 1254-4



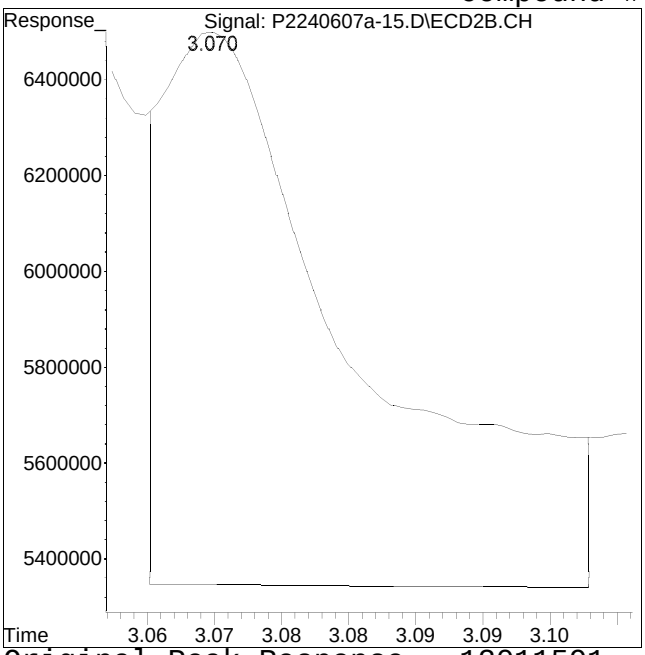


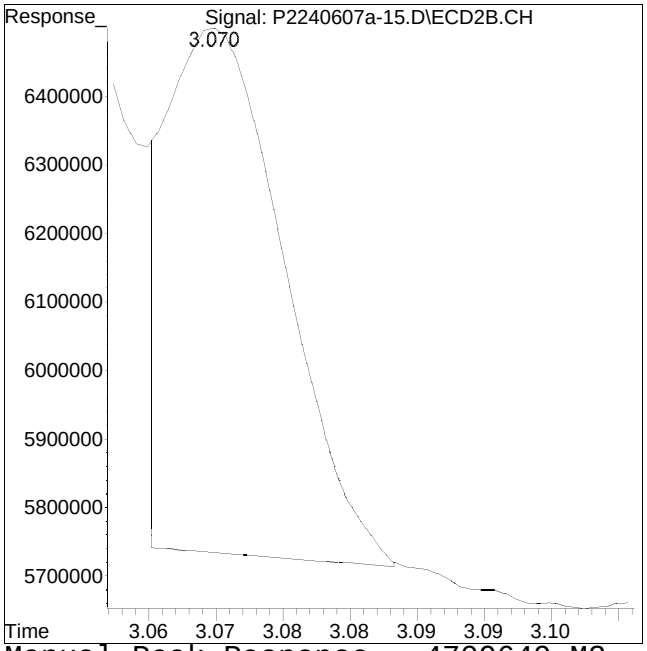
Original Peak Response = 9651379 Manual Peak Response = 8870888 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-15.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:43 Instrument : Pest 2
Sample : L2430219-07,42,, Quant Date : 6/7/2024 10:20 am

Compound #72: 1254-4 #2





Original Peak Response = 12011591 Manual Peak Response = 4709649 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 9:52
Operator : pest2:mhg
Sample : L2430219-08,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 10:20:26 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.159	1.228	407.8E6	263.3E6	25.000M3	25.000M4
	Standard Area 1 : #1 = 477774528				Recovery =	85.35%	
	Standard Area 1 : #2 = 323810098				Recovery =	81.31%	
14) i	2154_1br2nb	1.159	1.228	407.8E6	263.3E6	25.000M3	25.000M4
23) i	4268_1br2nb	1.159	1.228	407.8E6	263.3E6	25.000M3	25.000M4
34) i	1248_1br2nb	1.159	1.228	407.8E6	263.3E6	25.000M3	25.000M4
40) i	3262_1br2nb	1.159	1.228	407.8E6	263.3E6	25.000M3	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.443	1.603	346.3E6	205.7E6	16.198M4	15.857
	Spiked Amount 20.000	Range 30 - 150			Recovery =	80.99%	79.28%
3) s	Decachlorobi	4.016	4.529	264.8E6	147.4E6	19.170	24.136M4
	Spiked Amount 20.000	Range 30 - 150			Recovery =	95.85%	120.68%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	2.681	3.055	14899157	10321597	14.150M2	18.161M2

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 9:52
Operator : pest2:mhg
Sample : L2430219-08,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 10:20:26 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
10) l2 1260-2	2.811	3.157	26165553	13892943	16.486M2	21.362M2
11) l2 1260-3	3.128	3.550	8232583	8489338	8.349M4	16.833M3
12) l2 1260-4	3.283	3.679	25807174	18373865	12.215M4	18.125M4
13) l2 1260-5	3.431	3.881	21796672	13598982	14.720M1	19.566M4
Sum 1260-1			96901139	64676724	65.920	94.047
Average 1260-1					13.184	18.809
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	2.302	2.643	7528286	4413391	9.190M4	9.106M4
19) l4 1254-2	2.414	2.729	12998255	5592437	8.900M4	10.118M3
20) l4 1254-3	2.597	2.959	9988730	7544381	6.440M4	9.243M3
21) l4 1254-4	2.727	3.070	10285766	5233309	9.476M4	10.369M4
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			40801037	22783517	34.005	38.836
Average 1254-1					8.501	9.709
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 9:52
Operator : pest2:mhg
Sample : L2430219-08,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 10:20:26 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 9:52
Operator : pest2:mhg
Sample : L2430219-08,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 10:20:26 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

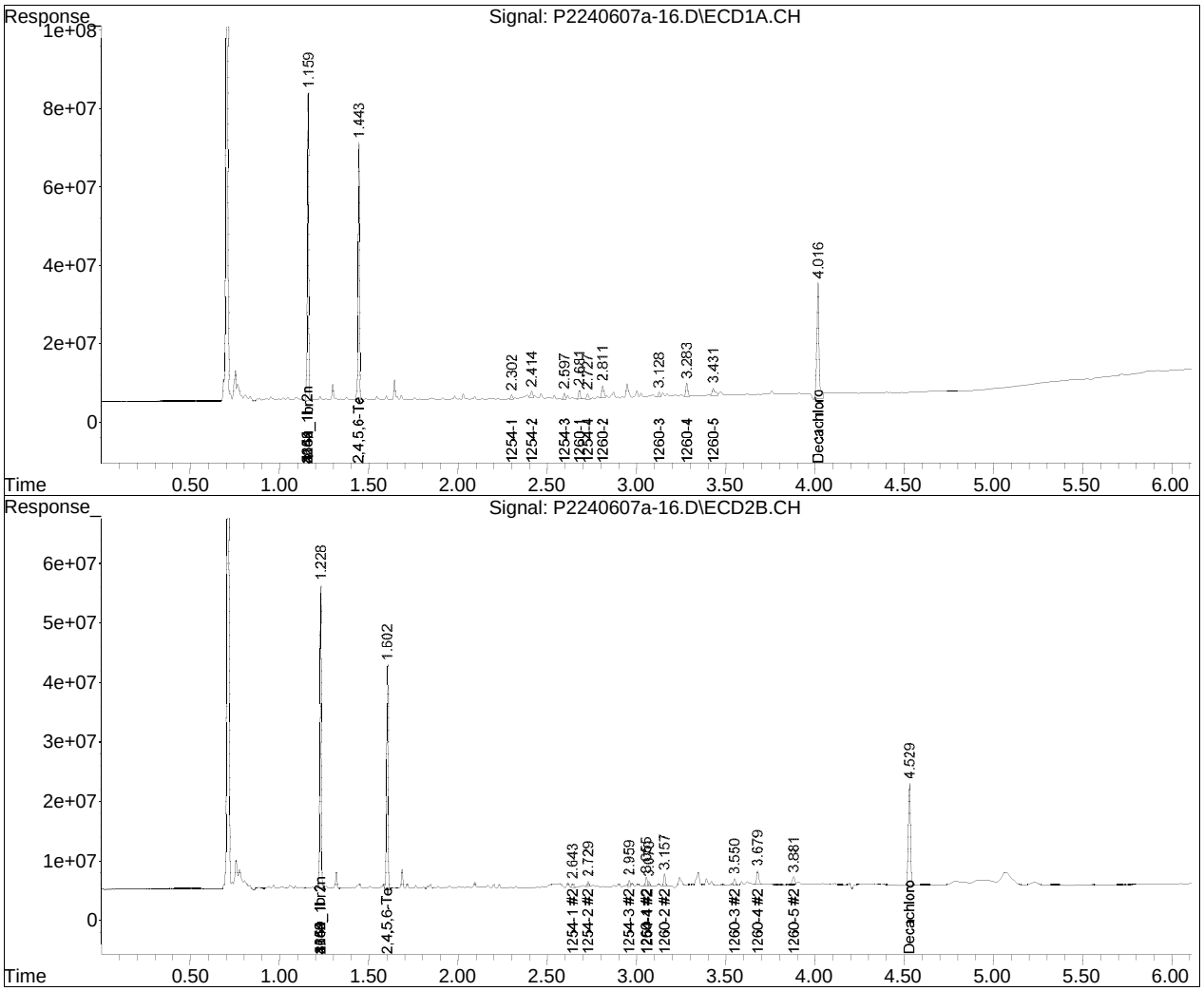
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

Sub List : Default - All compounds listedP2240607a-02.D•

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 9:52
Operator : pest2:mhg
Sample : L2430219-08,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 10:20:26 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

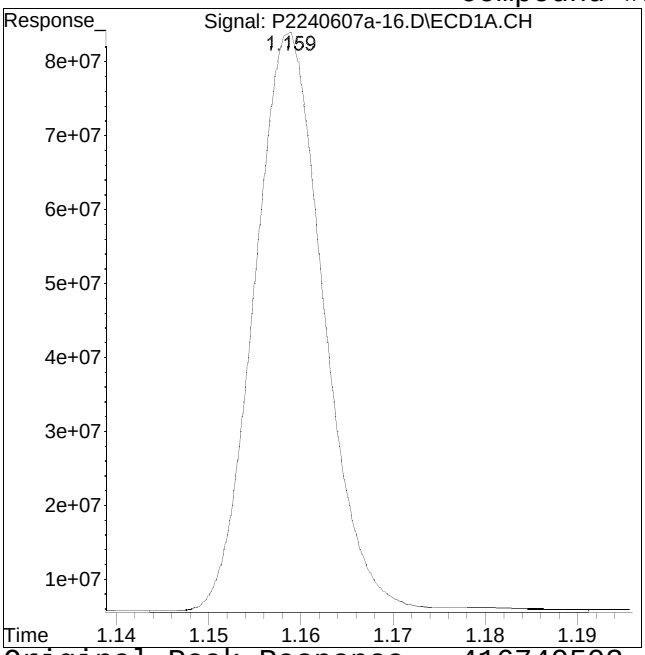
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

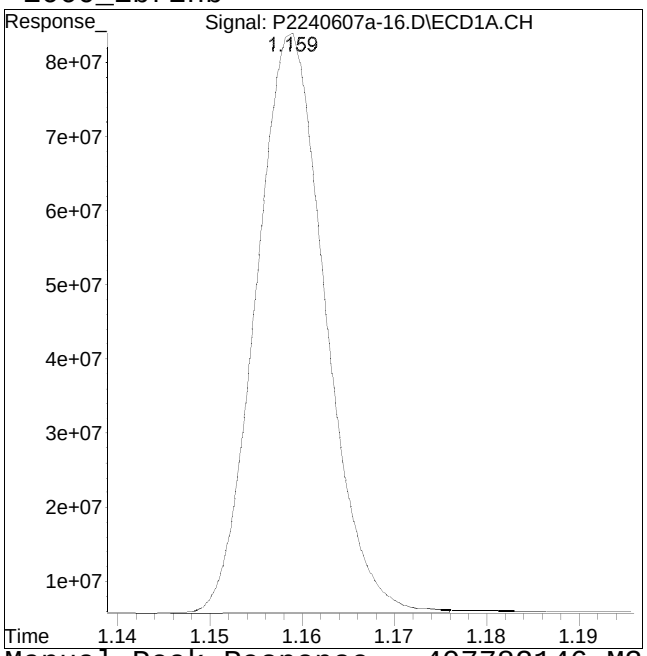


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-16.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:52 Instrument : Pest 2
Sample : L2430219-08,42,, Quant Date : 6/7/2024 10:20 am

Compound #1: 1660_1br2nb



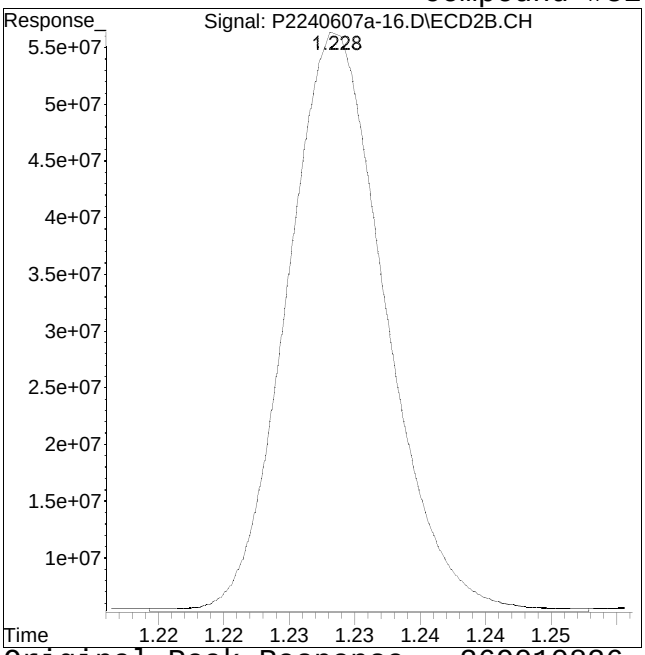


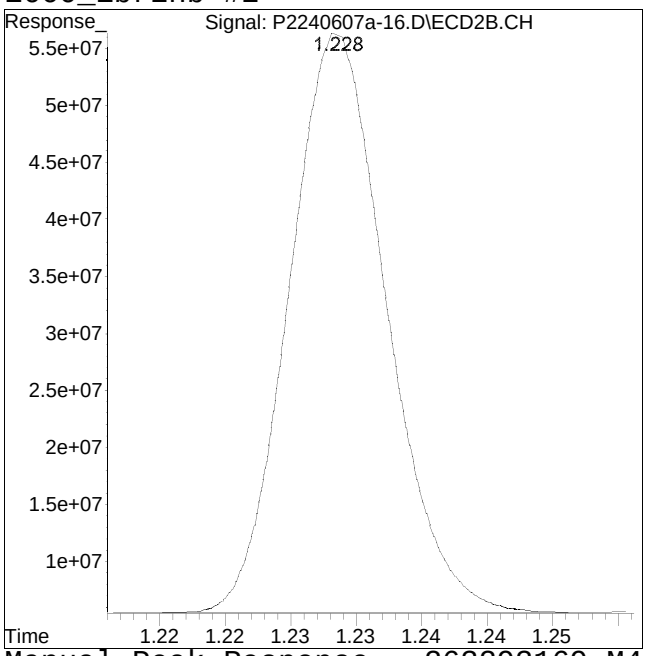
Original Peak Response = 416740503 Manual Peak Response = 407782146 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-16.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:52 Instrument : Pest 2
Sample : L2430219-08,42,, Quant Date : 6/7/2024 10:20 am

Compound #52: 1660_1br2nb #2



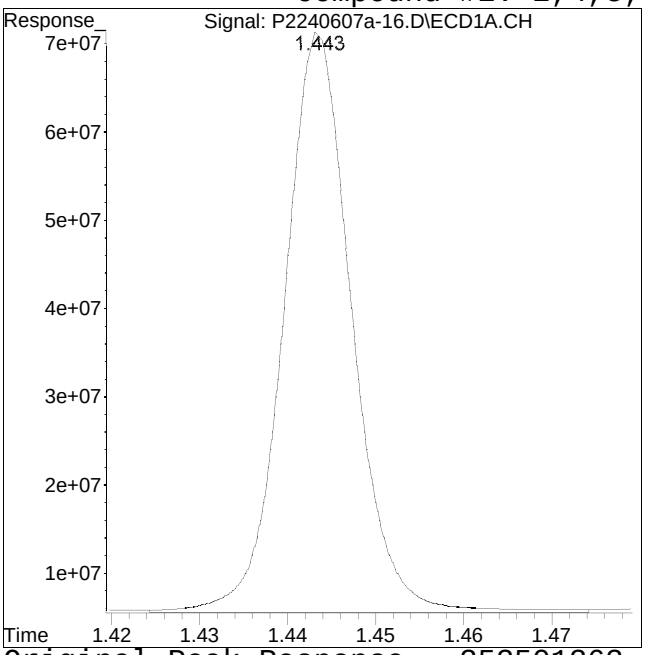


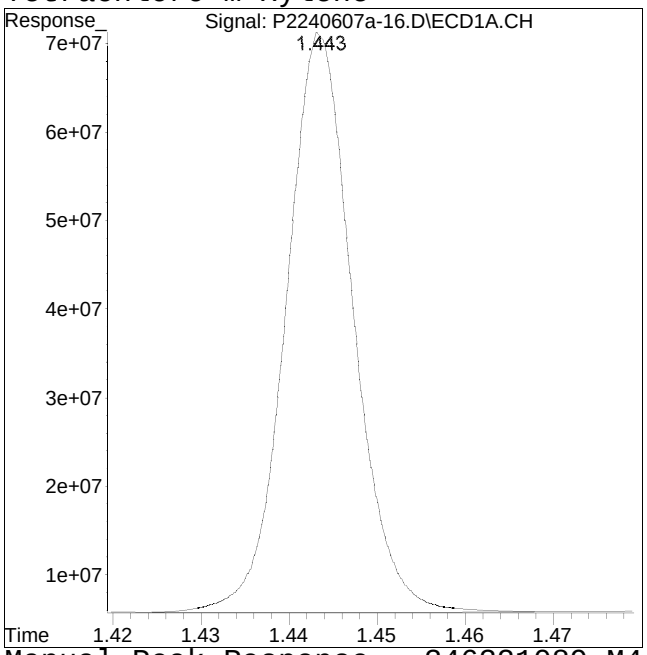
Original Peak Response = 269010826 Manual Peak Response = 263293169 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-16.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:52 Instrument : Pest 2
Sample : L2430219-08,42,, Quant Date : 6/7/2024 10:20 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



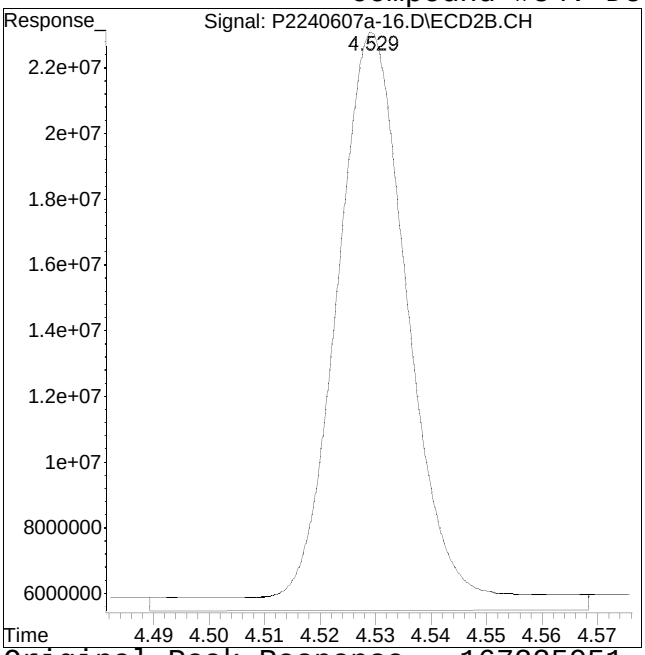


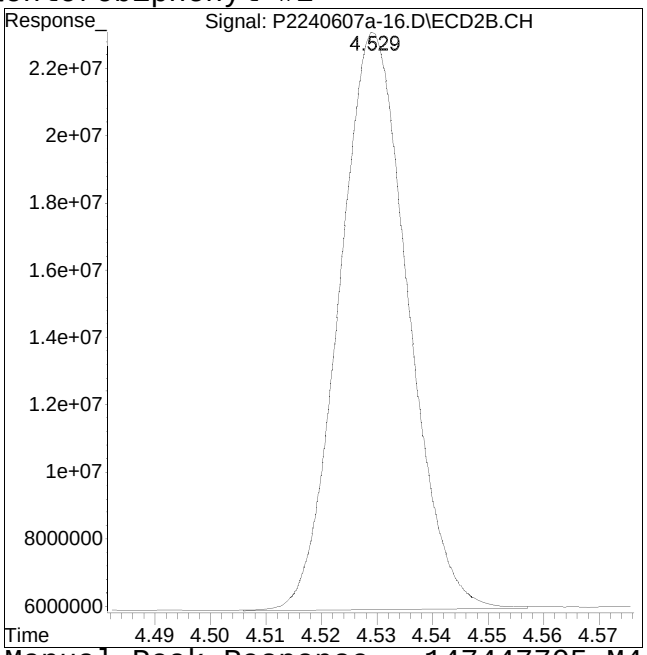
Original Peak Response = 353501363 Manual Peak Response = 346321089 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-16.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:52 Instrument : Pest 2
Sample : L2430219-08,42,, Quant Date : 6/7/2024 10:20 am

Compound #54: Decachlorobiphenyl #2



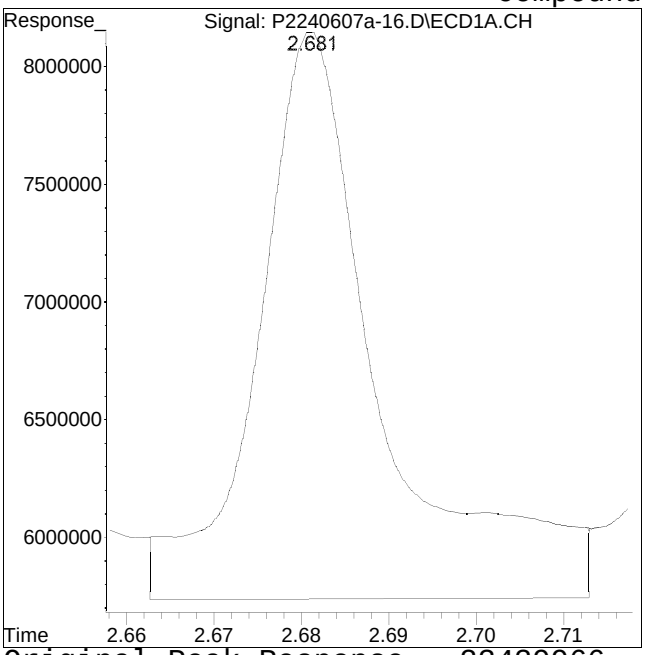


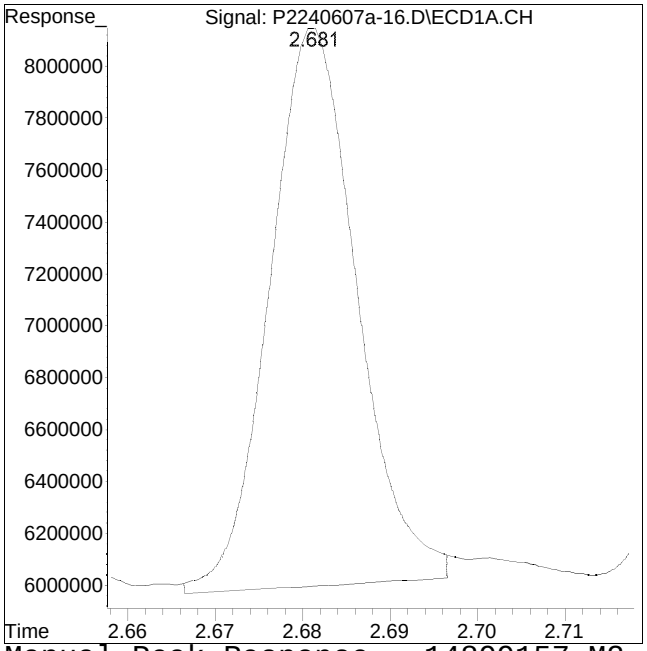
Original Peak Response = 167225951 Manual Peak Response = 147447705 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-16.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:52 Instrument : Pest 2
Sample : L2430219-08,42,, Quant Date : 6/7/2024 10:20 am

Compound #9: 1260-1



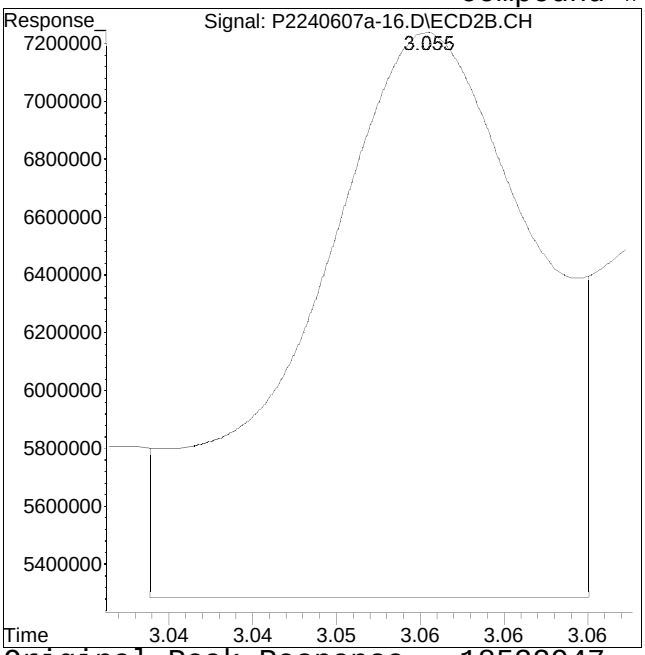


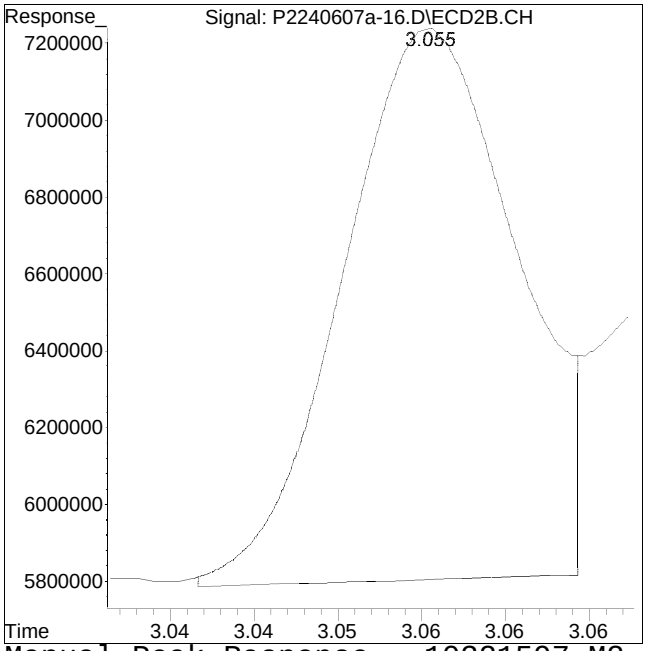
Original Peak Response = 23439966 Manual Peak Response = 14899157 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-16.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:52 Instrument : Pest 2
Sample : L2430219-08,42,, Quant Date : 6/7/2024 10:20 am

Compound #60: 1260-1 #2



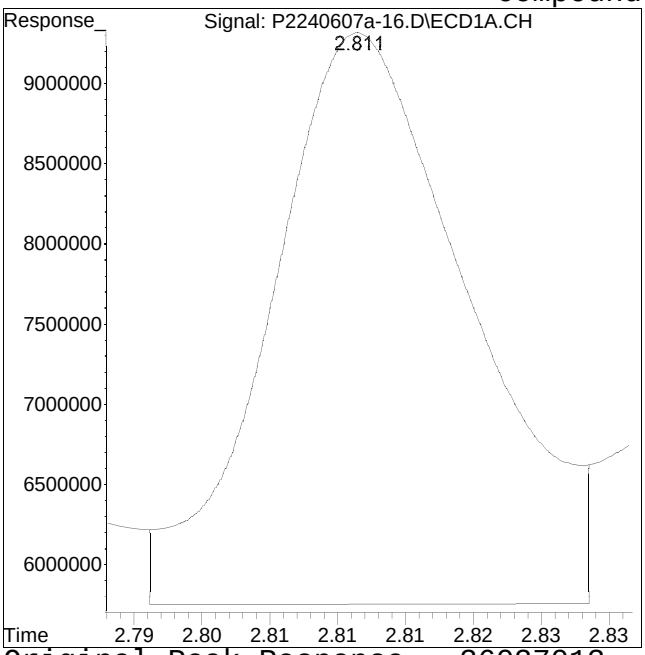


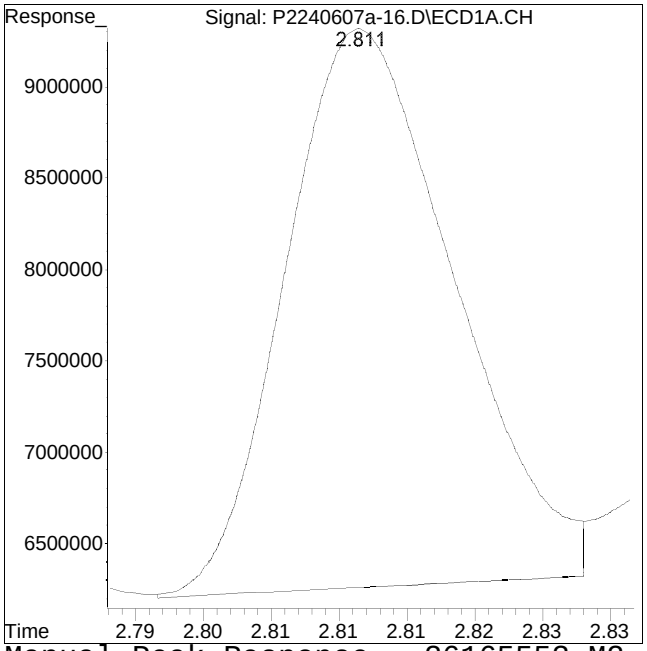
Original Peak Response = 18532947 Manual Peak Response = 10321597 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-16.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:52 Instrument : Pest 2
Sample : L2430219-08,42,, Quant Date : 6/7/2024 10:20 am

Compound #10: 1260-2



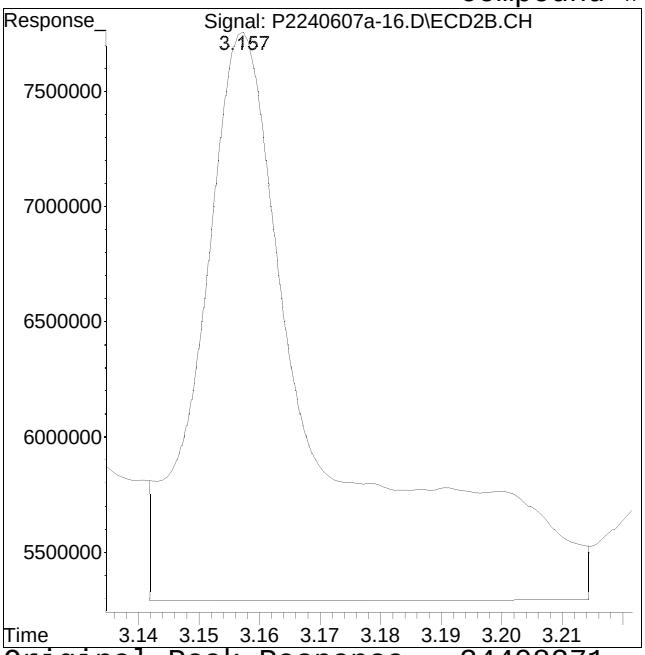


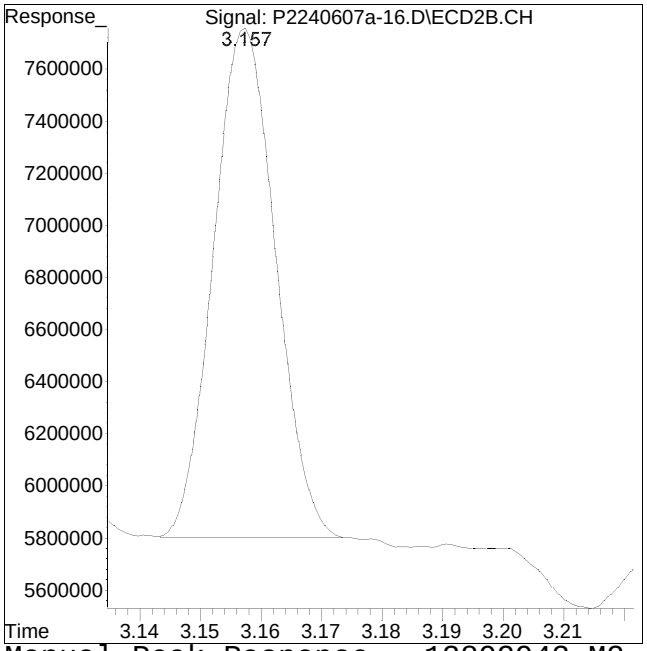
Original Peak Response = 36037013 Manual Peak Response = 26165553 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-16.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:52 Instrument : Pest 2
Sample : L2430219-08,42,, Quant Date : 6/7/2024 10:20 am

Compound #61: 1260-2 #2



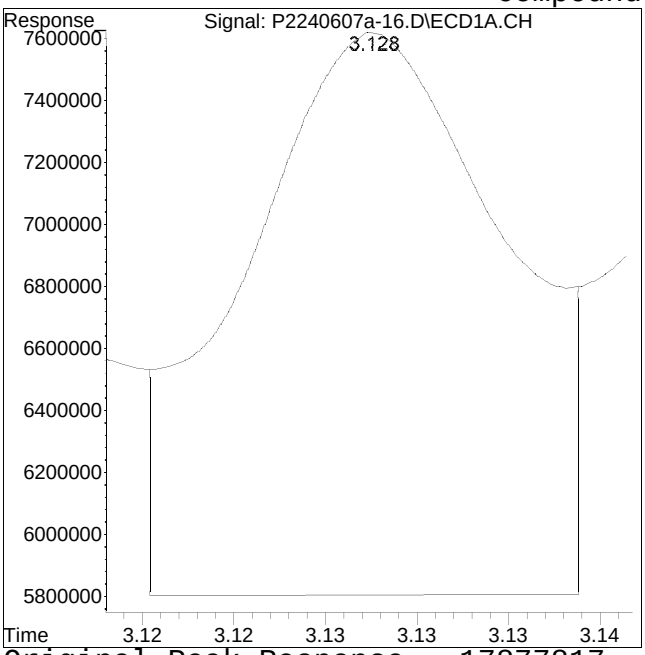


Original Peak Response = 34408271 Manual Peak Response = 13892943 M2
M2 = Peak not found by automatic integration algorithm.

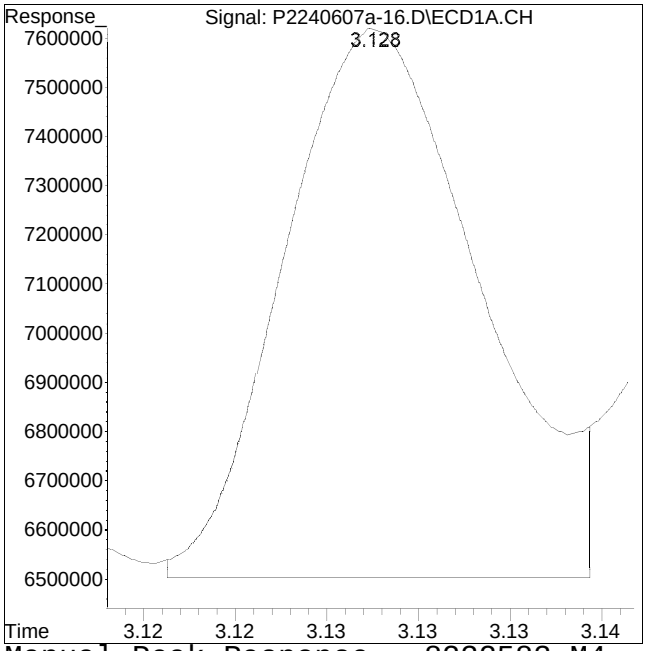
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-16.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:52 Instrument : Pest 2
Sample : L2430219-08,42,, Quant Date : 6/7/2024 10:20 am

Compound #11: 1260-3



Original Peak Response = 17877817



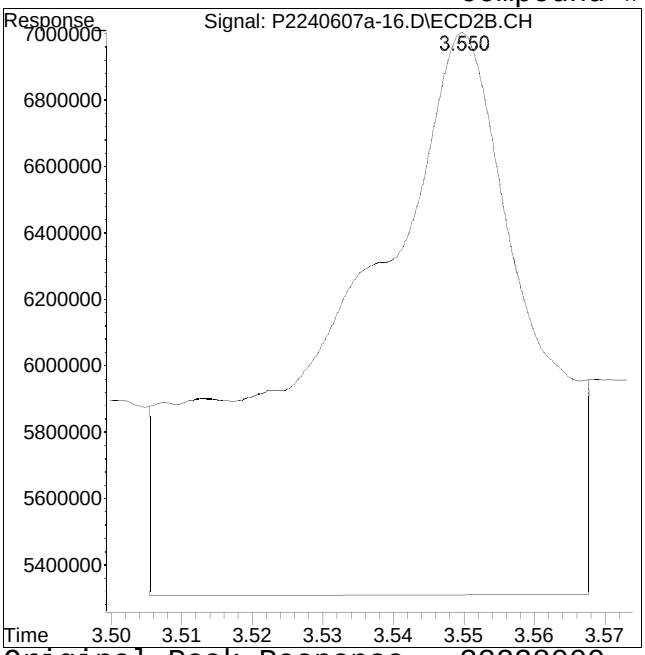
Manual Peak Response = 8232583 M4

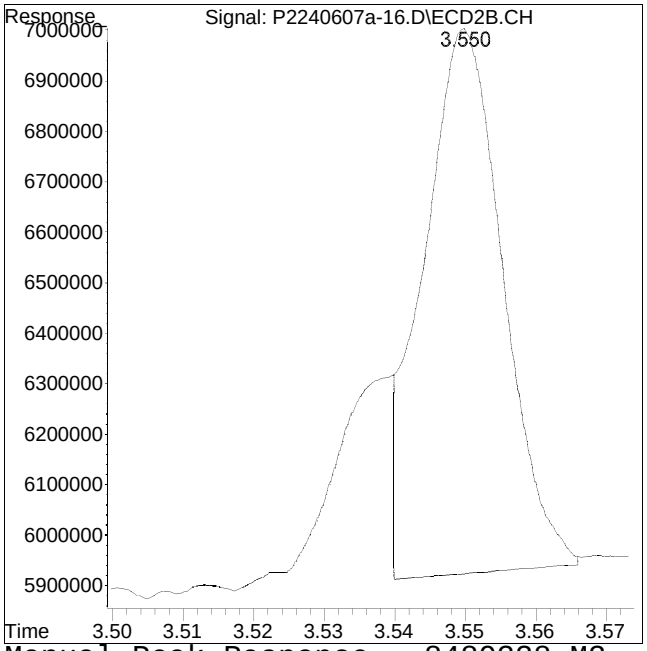
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-16.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:52 Instrument : Pest 2
Sample : L2430219-08,42,, Quant Date : 6/7/2024 10:20 am

Compound #62: 1260-3 #2



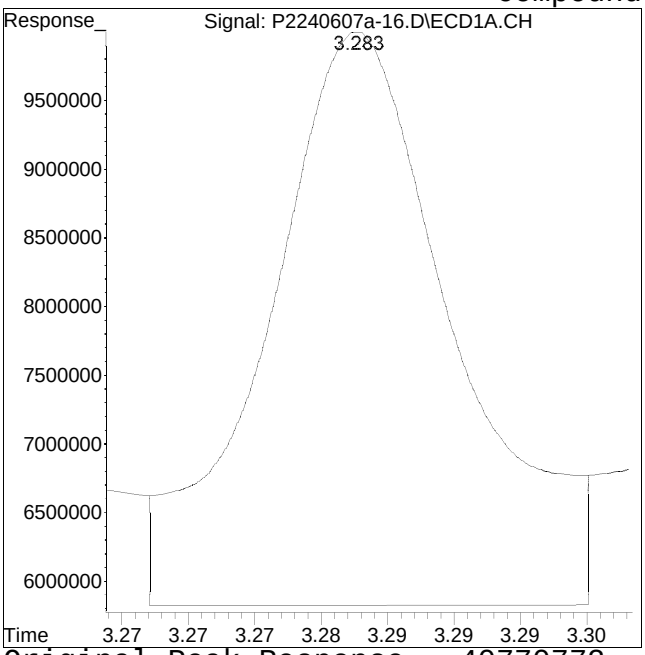


Original Peak Response = 33238000 Manual Peak Response = 8489338 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

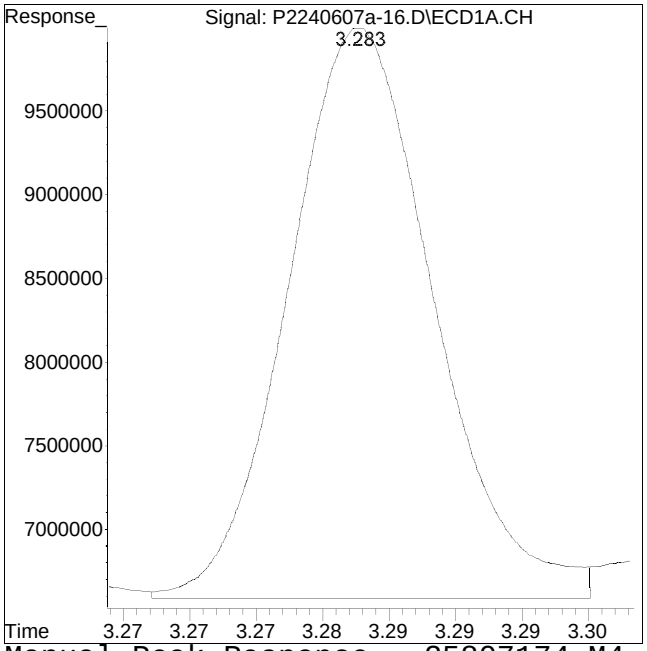
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-16.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:52 Instrument : Pest 2
Sample : L2430219-08,42,, Quant Date : 6/7/2024 10:20 am

Compound #12: 1260-4



Original Peak Response = 40770772



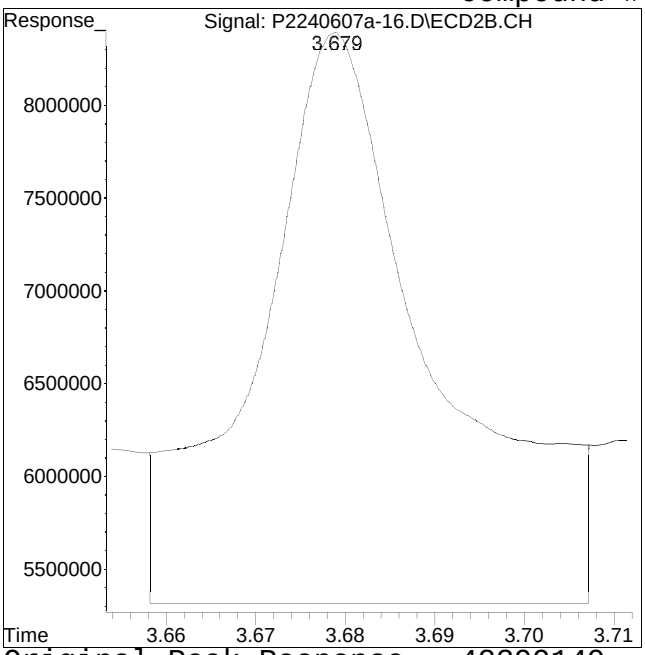
Manual Peak Response = 25807174 M4

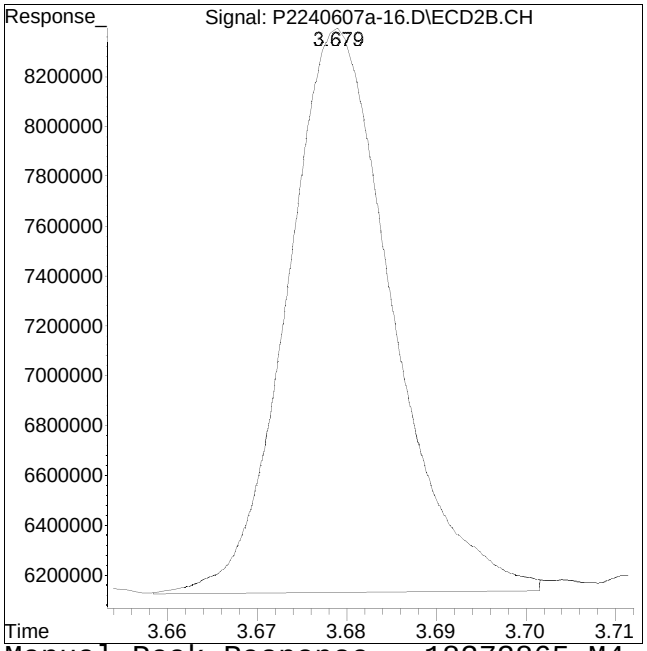
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-16.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:52 Instrument : Pest 2
Sample : L2430219-08,42,, Quant Date : 6/7/2024 10:20 am

Compound #63: 1260-4 #2



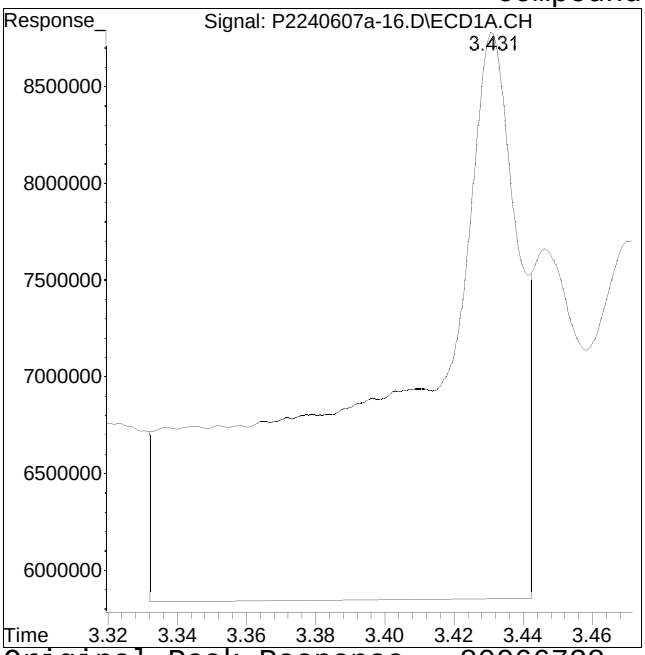


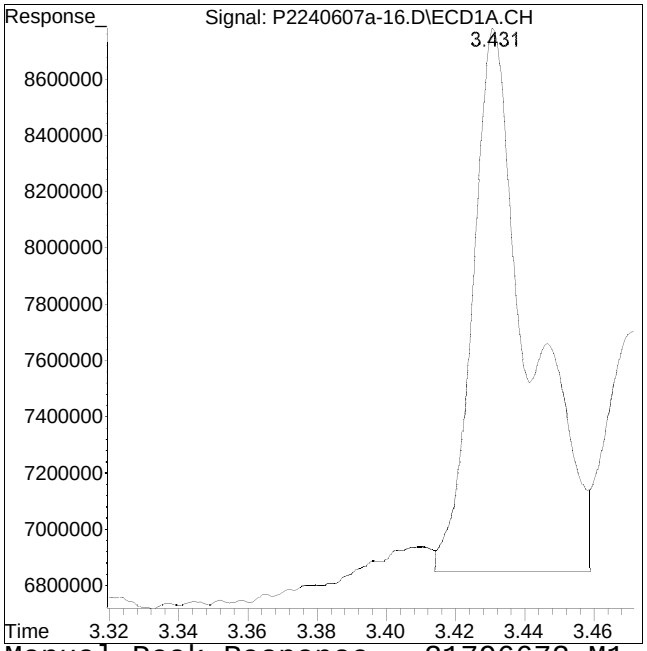
Original Peak Response = 42399149 Manual Peak Response = 18373865 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-16.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:52 Instrument : Pest 2
Sample : L2430219-08,42,, Quant Date : 6/7/2024 10:20 am

Compound #13: 1260-5



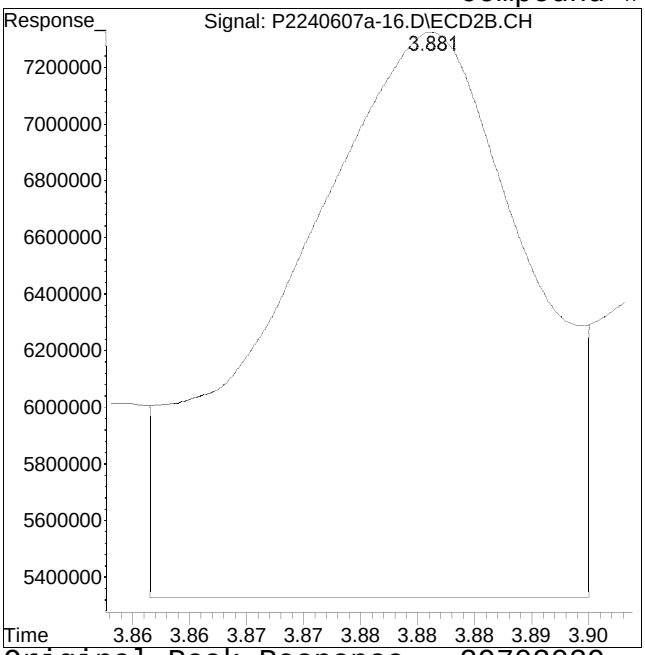


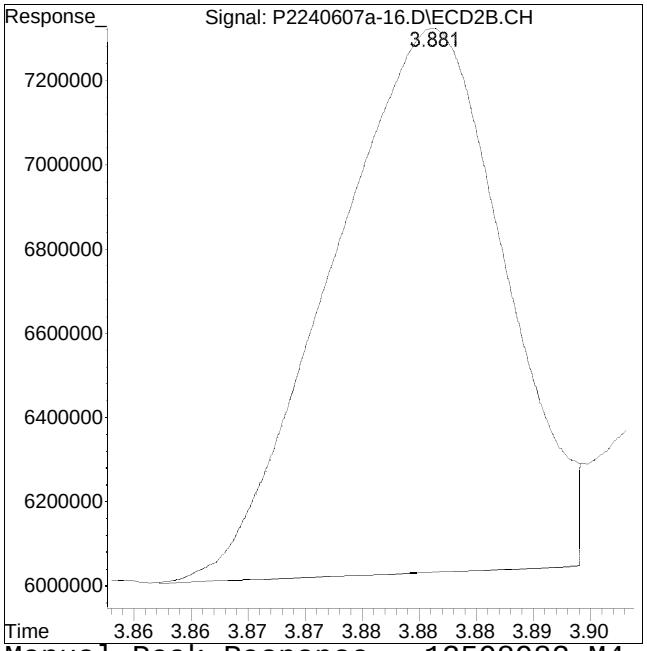
Original Peak Response = 80066738 Manual Peak Response = 21796672 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-16.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:52 Instrument : Pest 2
Sample : L2430219-08,42,, Quant Date : 6/7/2024 10:20 am

Compound #64: 1260-5 #2



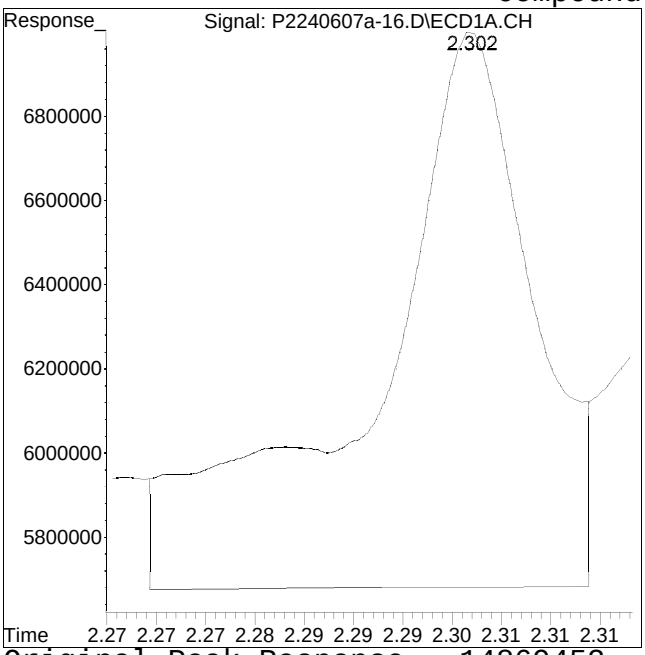


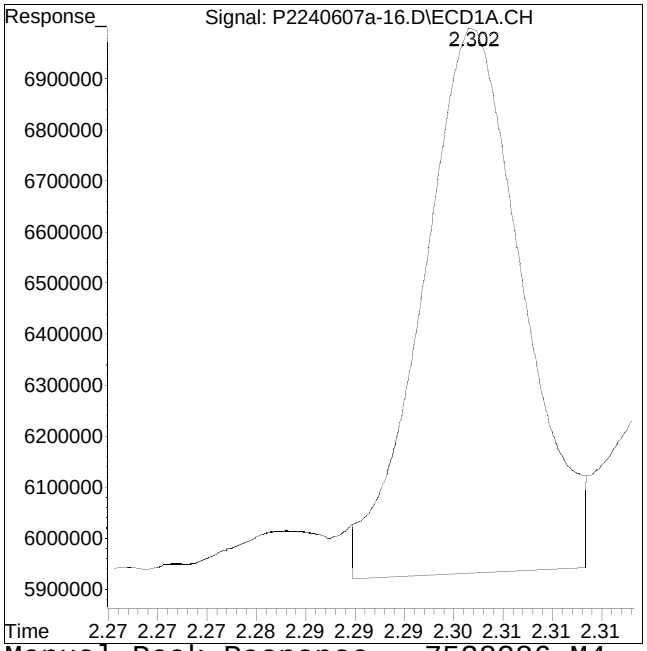
Original Peak Response = 29703039 Manual Peak Response = 13598982 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-16.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:52 Instrument : Pest 2
Sample : L2430219-08,42,, Quant Date : 6/7/2024 10:20 am

Compound #18: 1254-1



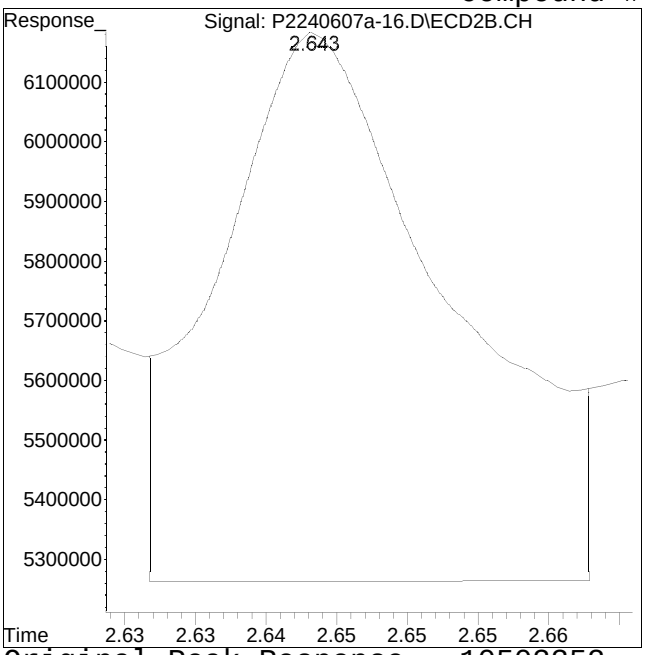


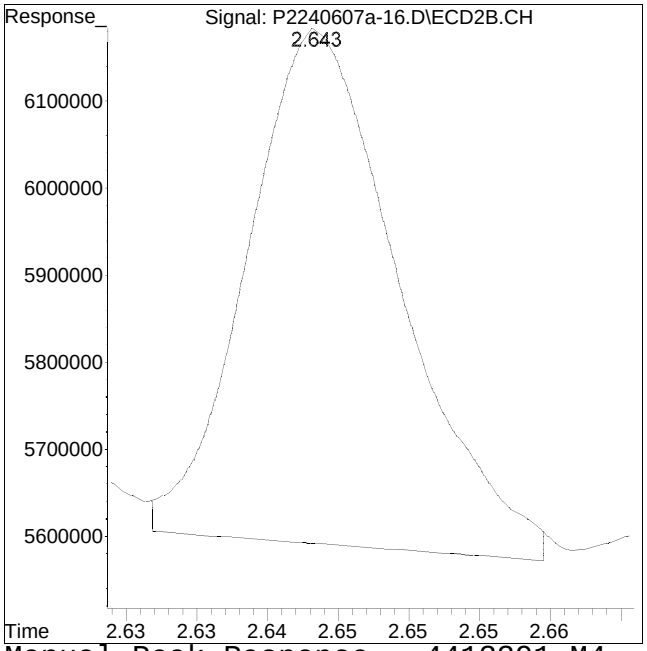
Original Peak Response = 14869452 Manual Peak Response = 7528286 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-16.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:52 Instrument : Pest 2
Sample : L2430219-08,42,, Quant Date : 6/7/2024 10:20 am

Compound #69: 1254-1 #2



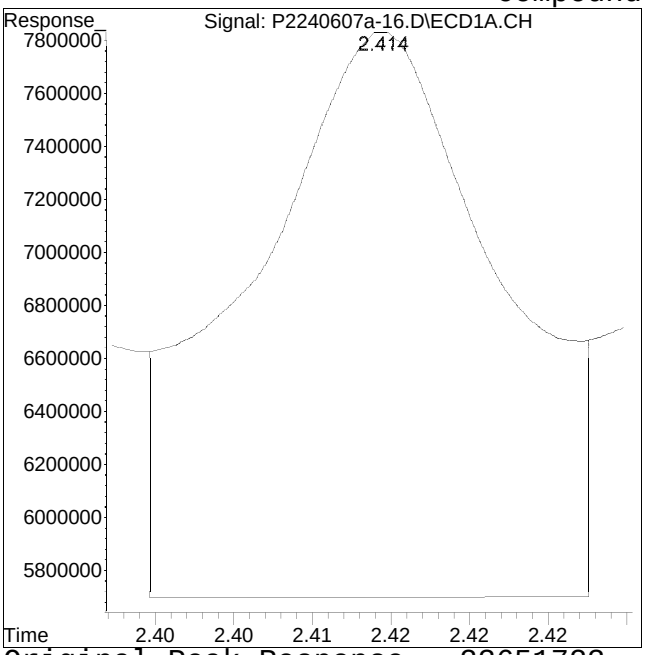


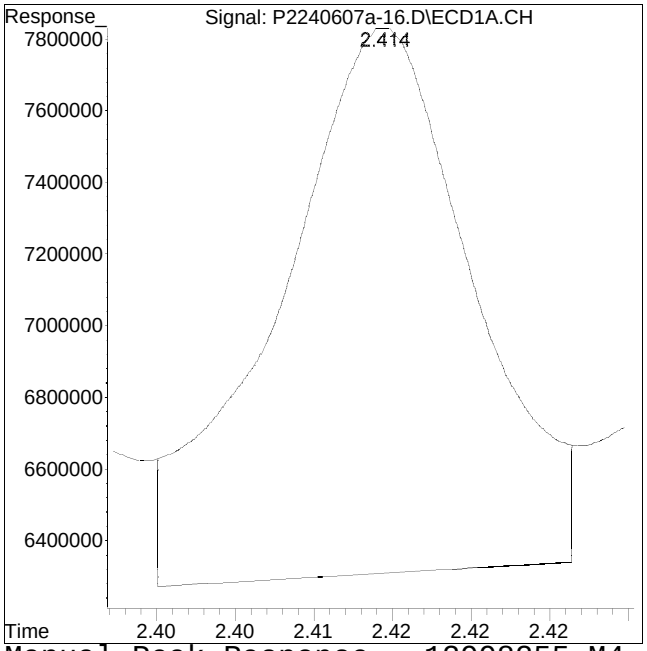
Original Peak Response = 10503352 Manual Peak Response = 4413391 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-16.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:52 Instrument : Pest 2
Sample : L2430219-08,42,, Quant Date : 6/7/2024 10:20 am

Compound #19: 1254-2



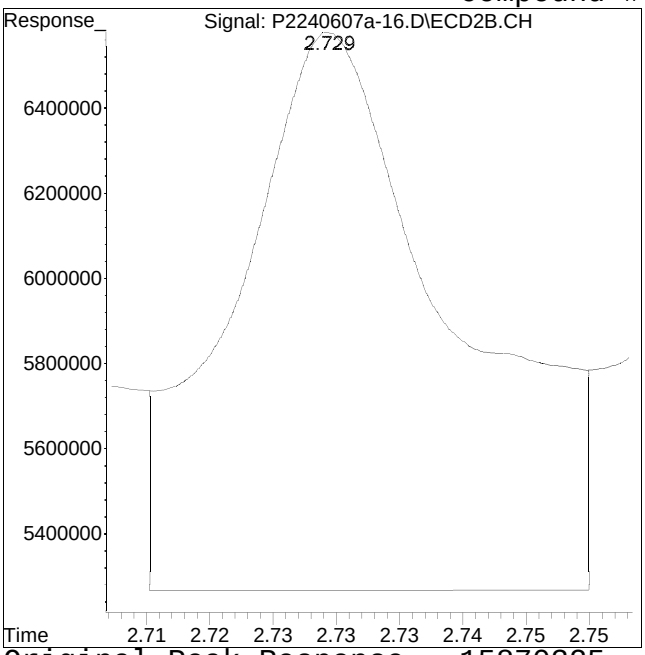


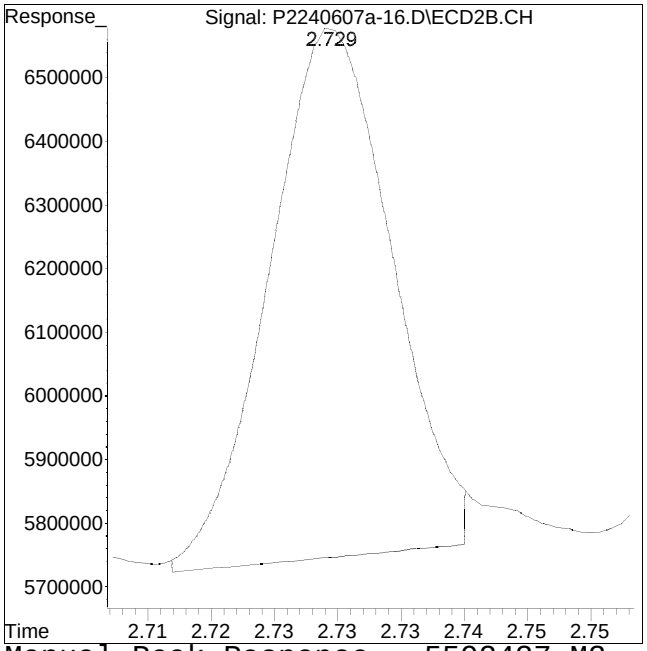
Original Peak Response = 23651723 Manual Peak Response = 12998255 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-16.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:52 Instrument : Pest 2
Sample : L2430219-08,42,, Quant Date : 6/7/2024 10:20 am

Compound #70: 1254-2 #2



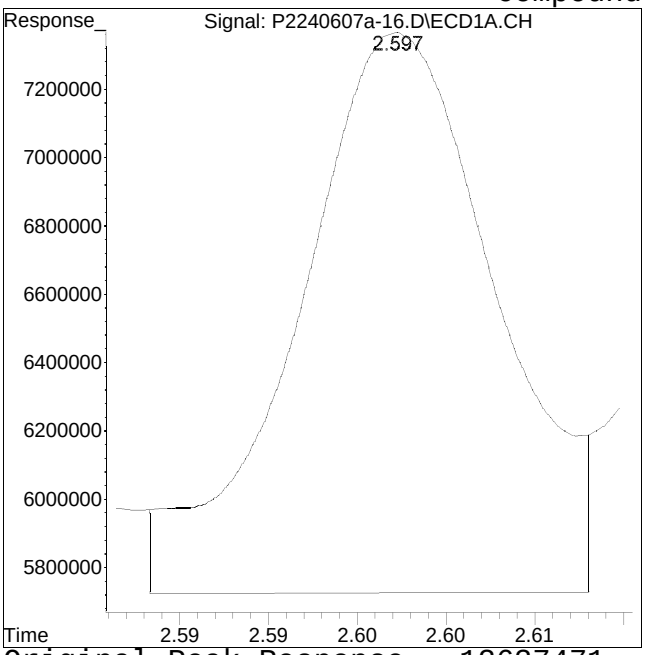


Original Peak Response = 15870325 Manual Peak Response = 5592437 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

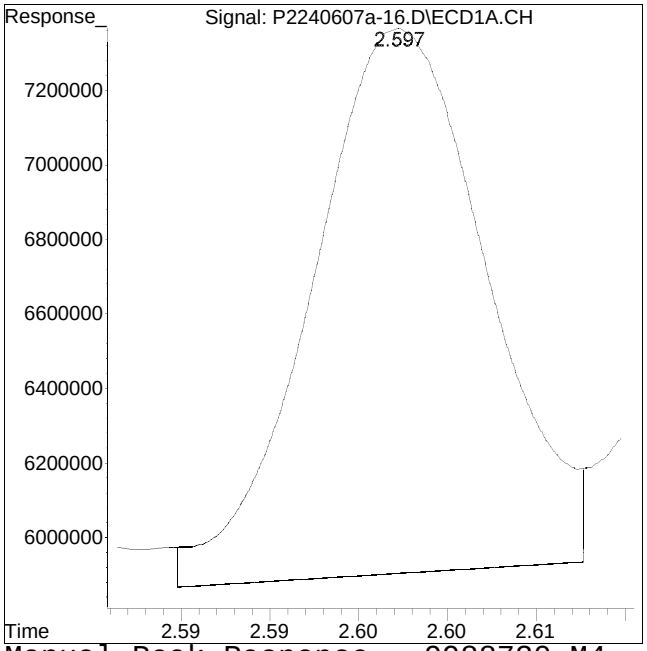
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-16.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:52 Instrument : Pest 2
Sample : L2430219-08,42,, Quant Date : 6/7/2024 10:20 am

Compound #20: 1254-3



Original Peak Response = 12637471



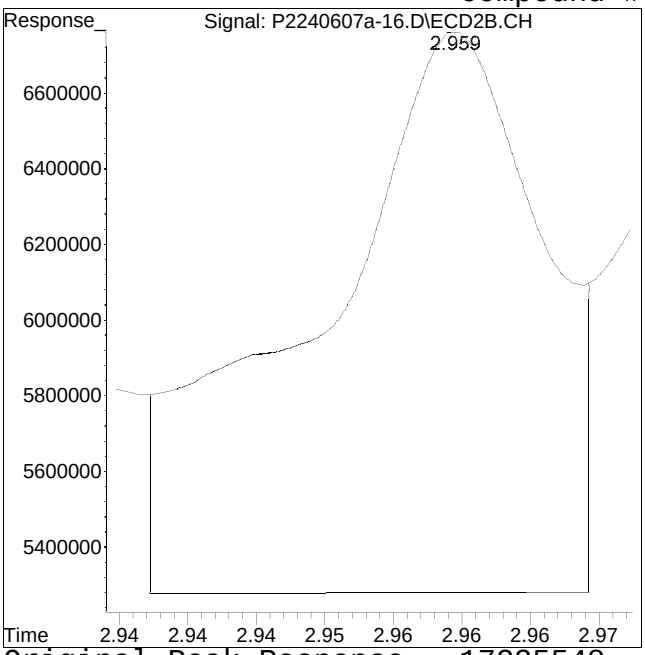
Manual Peak Response = 9988730 M4

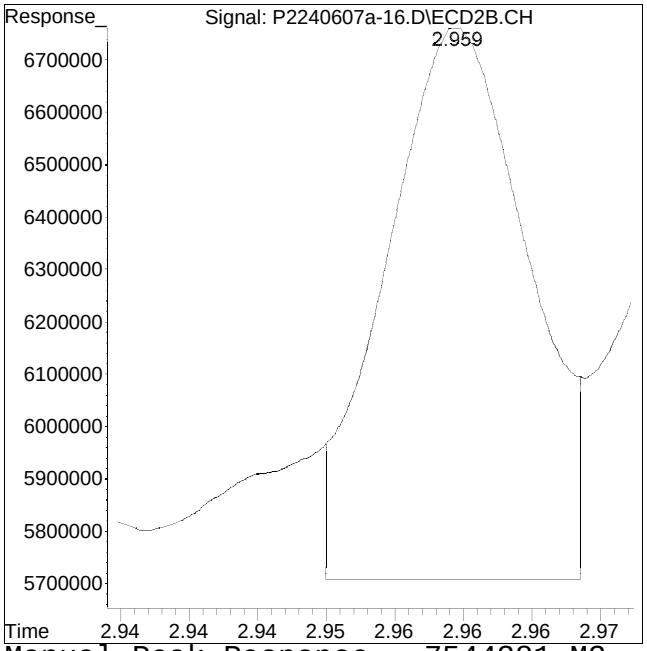
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-16.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:52 Instrument : Pest 2
Sample : L2430219-08,42,, Quant Date : 6/7/2024 10:20 am

Compound #71: 1254-3 #2



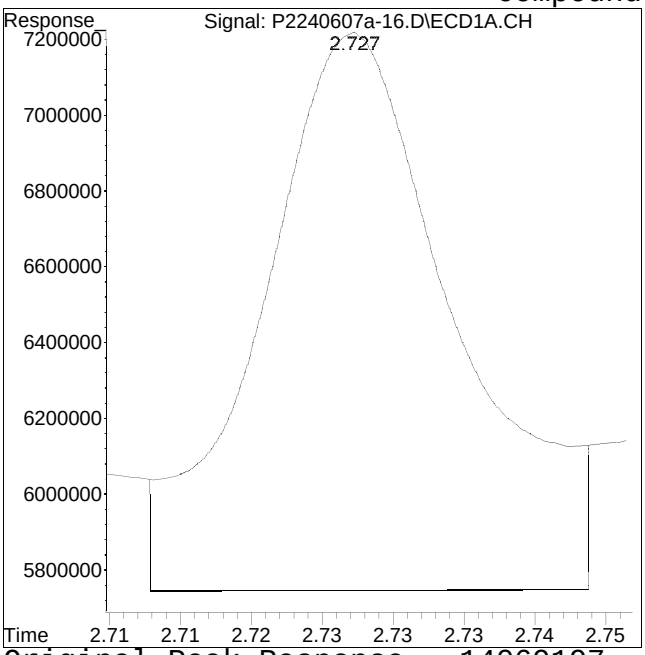


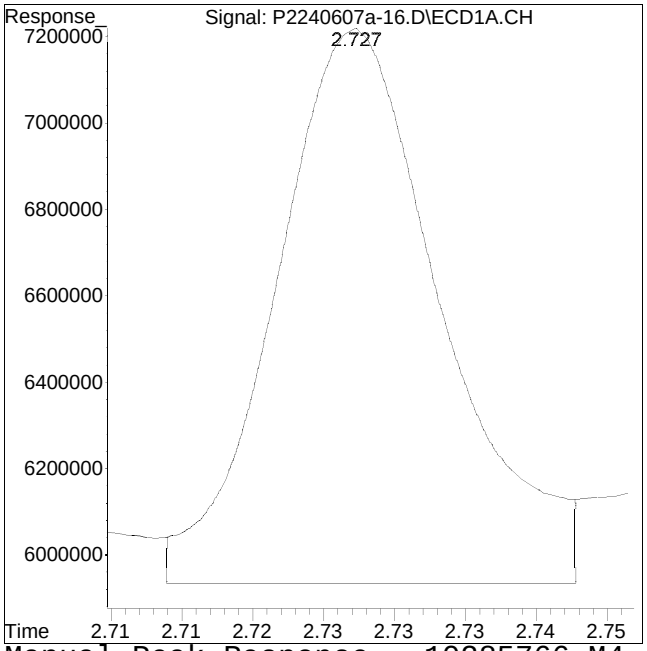
Original Peak Response = 17235548 Manual Peak Response = 7544381 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-16.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:52 Instrument : Pest 2
Sample : L2430219-08,42,, Quant Date : 6/7/2024 10:20 am

Compound #21: 1254-4



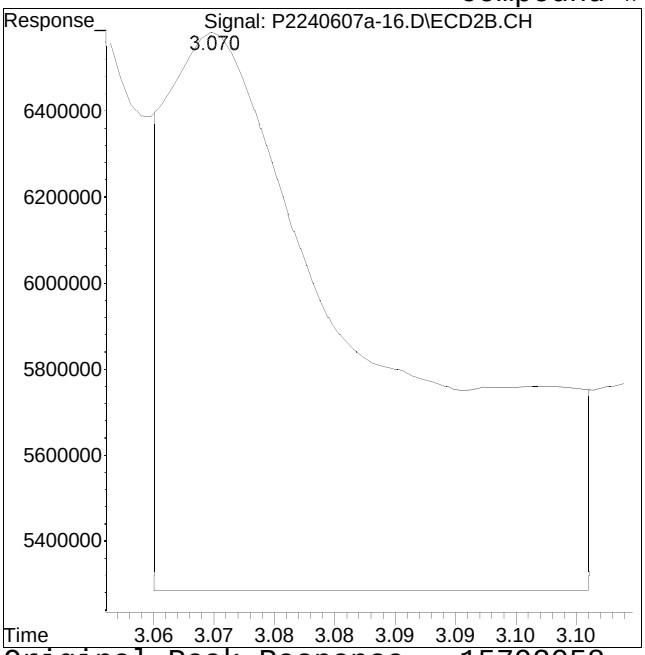


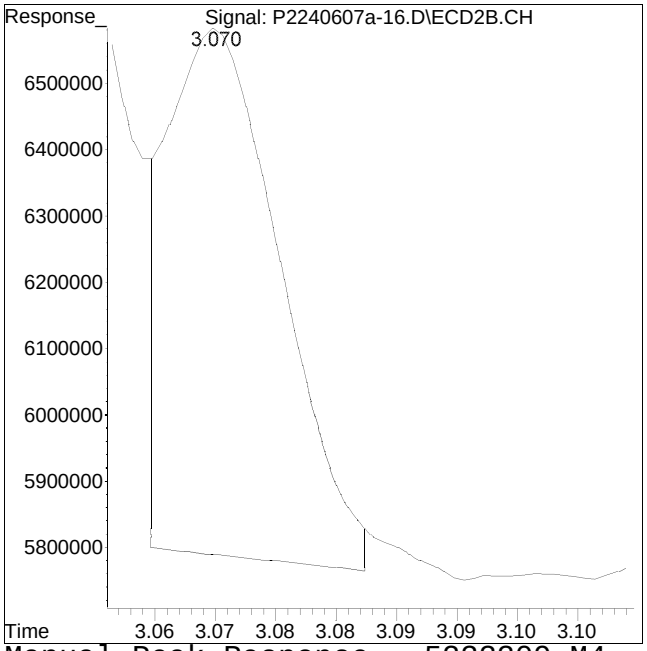
Original Peak Response = 14069197 Manual Peak Response = 10285766 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-16.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:52 Instrument : Pest 2
Sample : L2430219-08,42,, Quant Date : 6/7/2024 10:20 am

Compound #72: 1254-4 #2





Original Peak Response = 15792058 Manual Peak Response = 5233309 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 10:01
Operator : pest2:mhg
Sample : L2430219-09,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 10:20:30 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.158	1.229	383.1E6	253.3E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 477774528				Recovery =	80.19%	
	Standard Area 1 : #2 = 323810098				Recovery =	78.22%	
14) i	2154_1br2nb	1.158	1.229	383.1E6	253.3E6	25.000M4	25.000M4
23) i	4268_1br2nb	1.158	1.229	383.1E6	253.3E6	25.000M4	25.000M4
34) i	1248_1br2nb	1.158	1.229	383.1E6	253.3E6	25.000M4	25.000M4
40) i	3262_1br2nb	1.158	1.229	383.1E6	253.3E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.443	1.603	347.5E6	215.4E6	17.297M4	17.263
	Spiked Amount 20.000	Range 30 - 150			Recovery =	86.48%	86.32%
3) s	Decachlorobi	4.016	4.529	258.3E6	147.4E6	19.903	25.076M4
	Spiked Amount 20.000	Range 30 - 150			Recovery =	99.52%	125.38%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	2.681	3.056	16536252	11798519	16.715M2	21.581M2

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 10:01
Operator : pest2:mhg
Sample : L2430219-09,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 10:20:30 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
10) l2 1260-2	2.811	3.157	29406990	15980586	19.720M2	25.544M2
11) l2 1260-3	3.128	3.549	10337118	9275147	11.158M4	19.119M3
12) l2 1260-4	3.283	3.679	29139048	21892491	14.679M4	22.450M4
13) l2 1260-5	3.431	3.881	28243981	15794489	20.300M1	23.624M4
Sum 1260-1			113.7E6	74741233	82.572	112.318
Average 1260-1					16.514	22.464
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	2.301	0.000	9029803	0	11.731M3	N.D. d
19) l4 1254-2	2.414	2.729	13401607	5843502	9.766M3	10.990M4
20) l4 1254-3	2.597	2.959	12004940	8009490	8.238M4	10.201M3
21) l4 1254-4	2.727	3.070	11920538	5707273	11.688M3	11.756M3
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			46356888	19560265	41.423	32.947
Average 1254-1					10.356	10.982
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 10:01
Operator : pest2:mhg
Sample : L2430219-09,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 10:20:30 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 10:01
Operator : pest2:mhg
Sample : L2430219-09,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 10:20:30 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

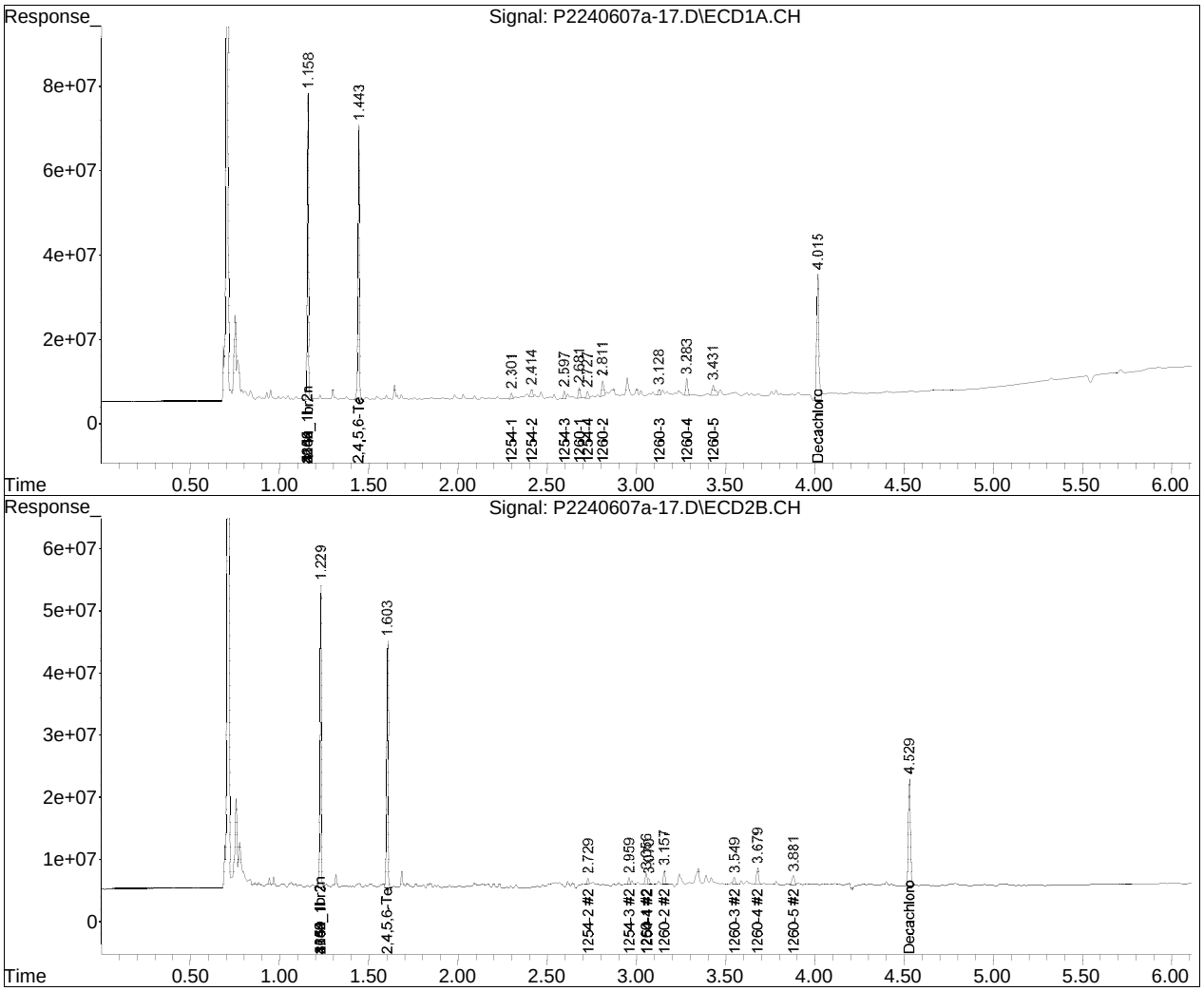
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

Sub List : Default - All compounds listedP2240607a-02.D•

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 10:01
Operator : pest2:mhg
Sample : L2430219-09,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 10:20:30 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

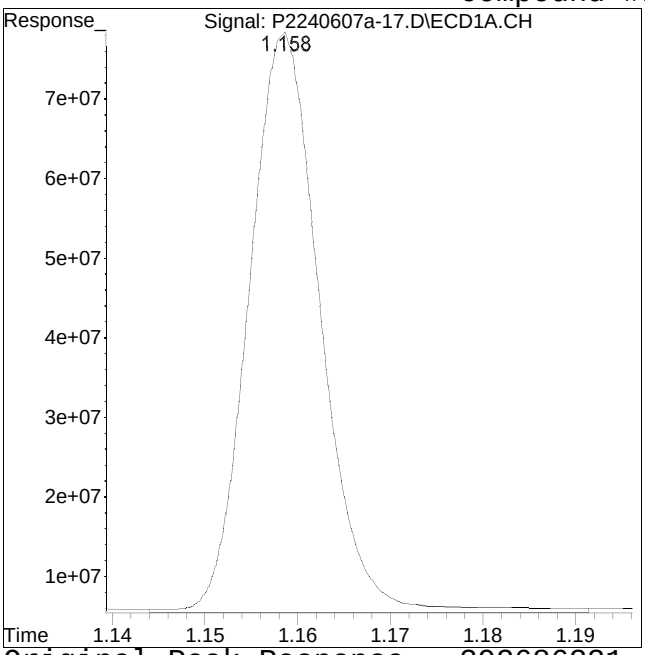
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



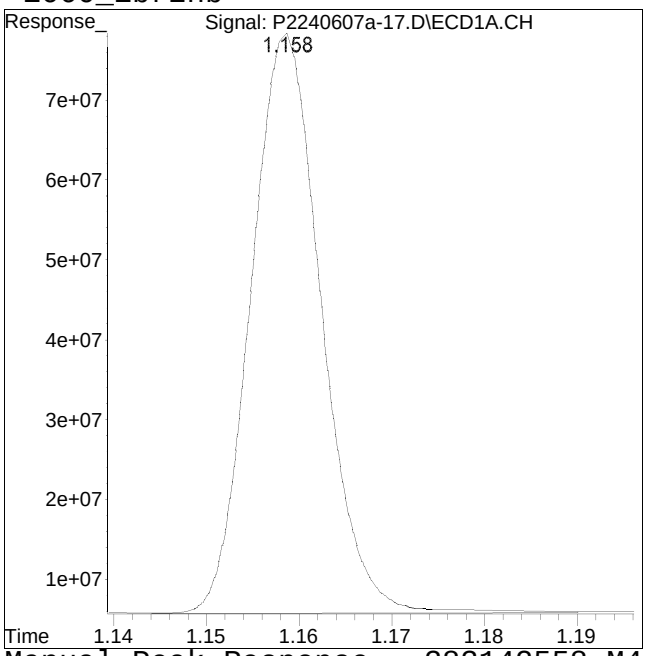
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-17.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:01 Instrument : Pest 2
Sample : L2430219-09,42,, Quant Date : 6/7/2024 10:20 am

Compound #1: 1660_1br2nb



Original Peak Response = 392686331



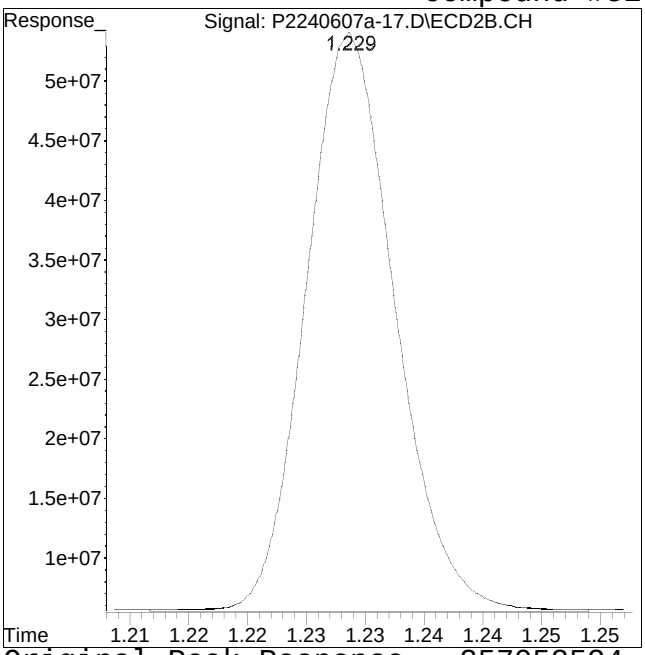
Manual Peak Response = 383142558 M4

M4 = Poor automated baseline construction.

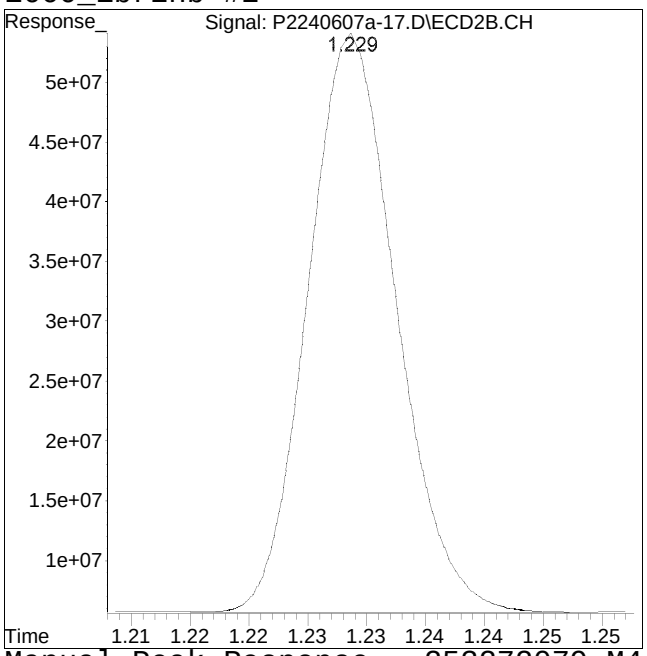
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-17.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:01 Instrument : Pest 2
Sample : L2430219-09,42,, Quant Date : 6/7/2024 10:20 am

Compound #52: 1660_1br2nb #2



Original Peak Response = 257052524



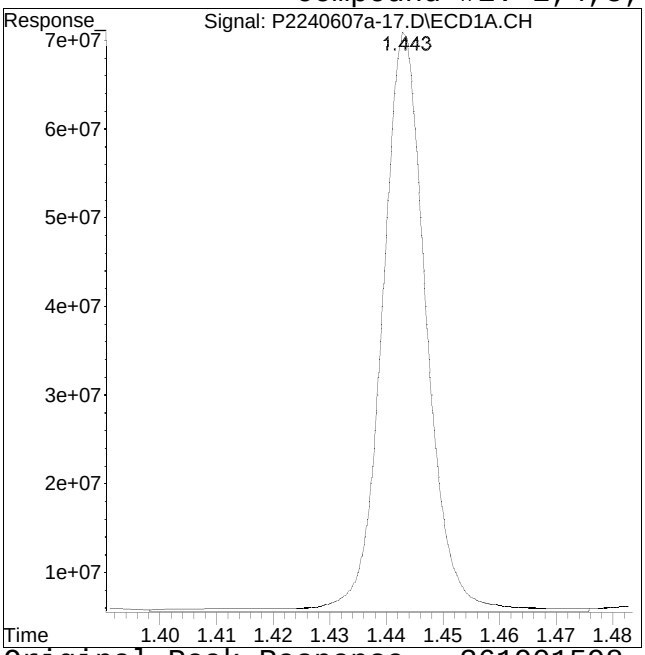
Manual Peak Response = 253272079 M4

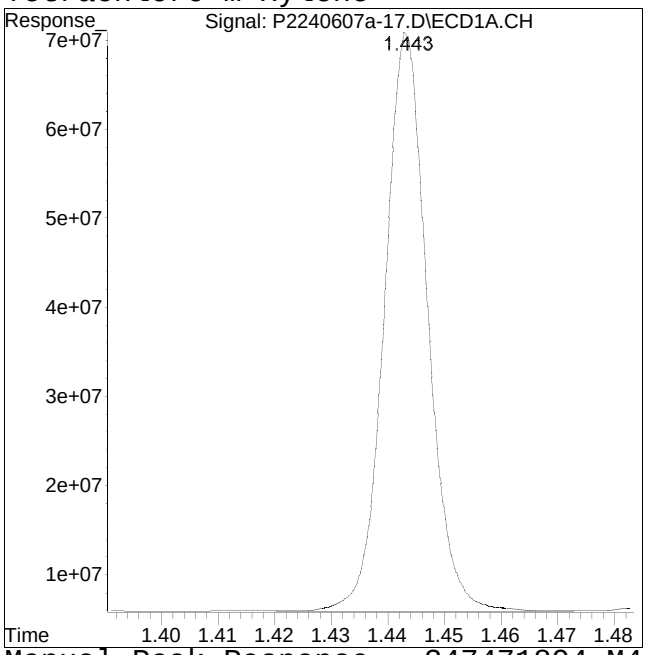
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-17.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:01 Instrument : Pest 2
Sample : L2430219-09,42,, Quant Date : 6/7/2024 10:20 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



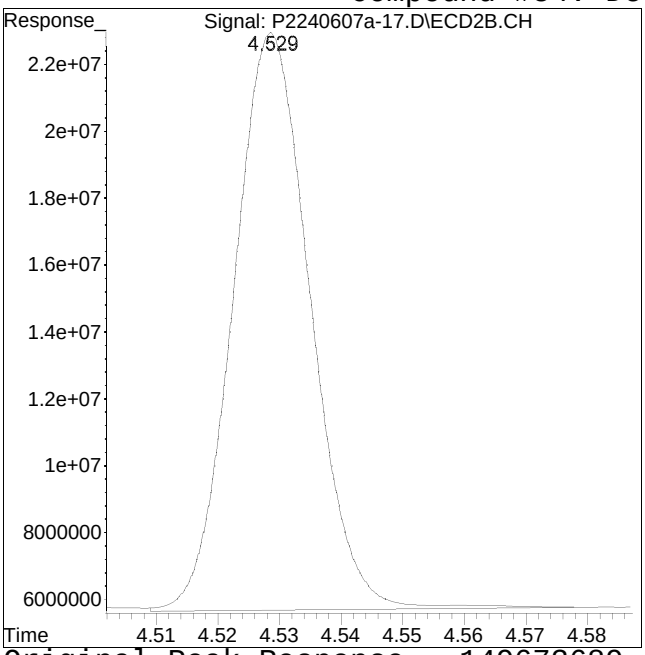


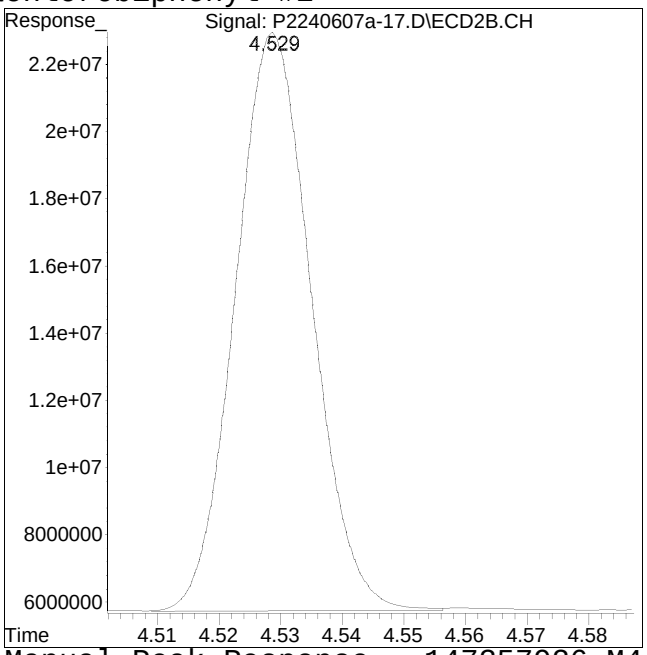
Original Peak Response = 361901598 Manual Peak Response = 347471894 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-17.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:01 Instrument : Pest 2
Sample : L2430219-09,42,, Quant Date : 6/7/2024 10:20 am

Compound #54: Decachlorobiphenyl #2



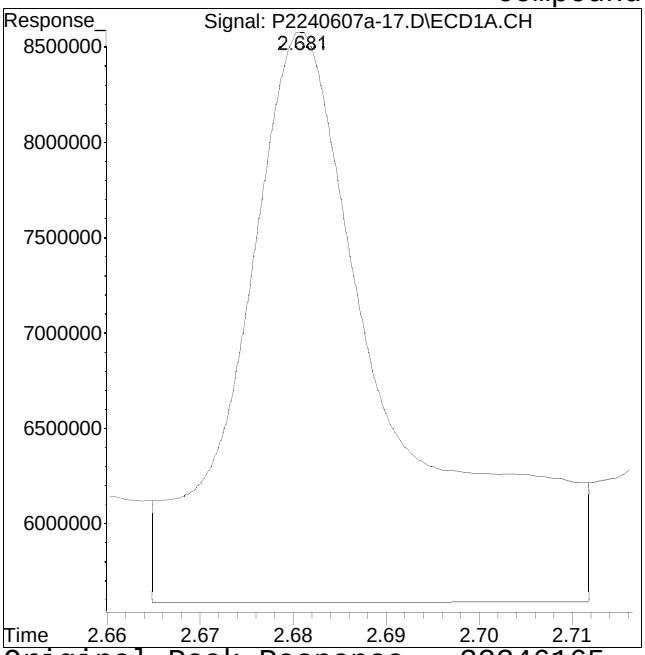


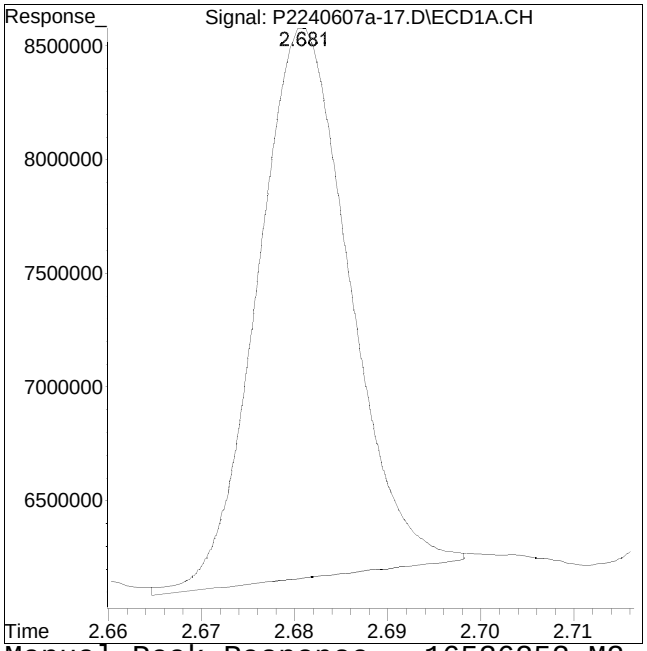
Original Peak Response = 149673689 Manual Peak Response = 147357926 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-17.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:01 Instrument : Pest 2
Sample : L2430219-09,42,, Quant Date : 6/7/2024 10:20 am

Compound #9: 1260-1



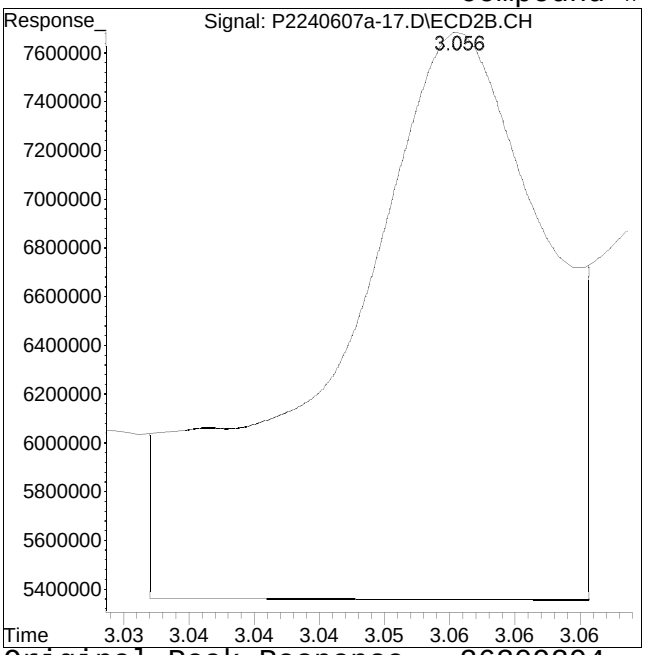


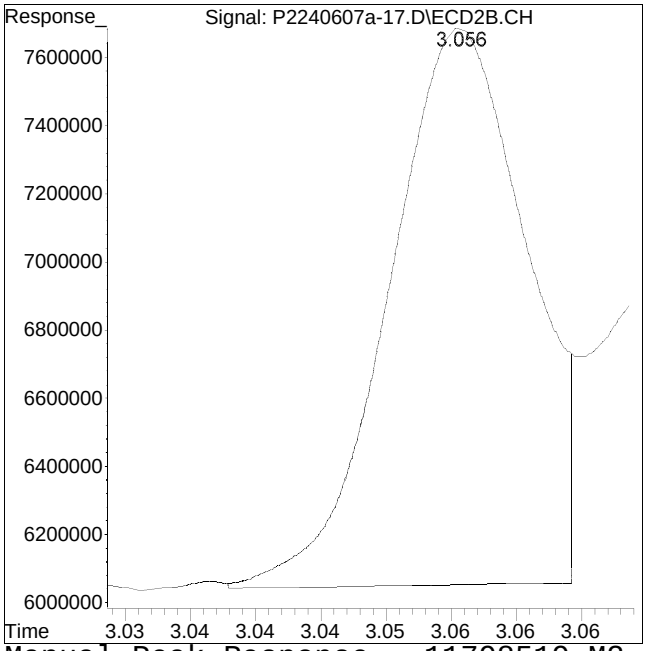
Original Peak Response = 33346165 Manual Peak Response = 16536252 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-17.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:01 Instrument : Pest 2
Sample : L2430219-09,42,, Quant Date : 6/7/2024 10:20 am

Compound #60: 1260-1 #2



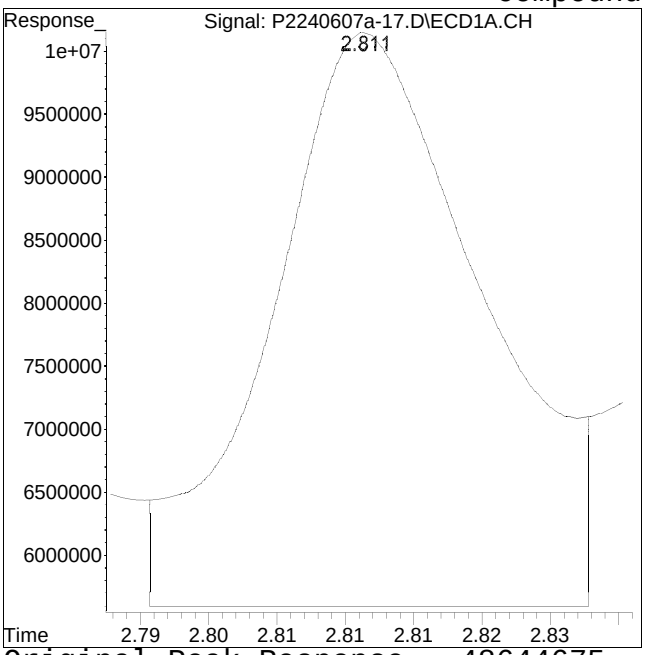


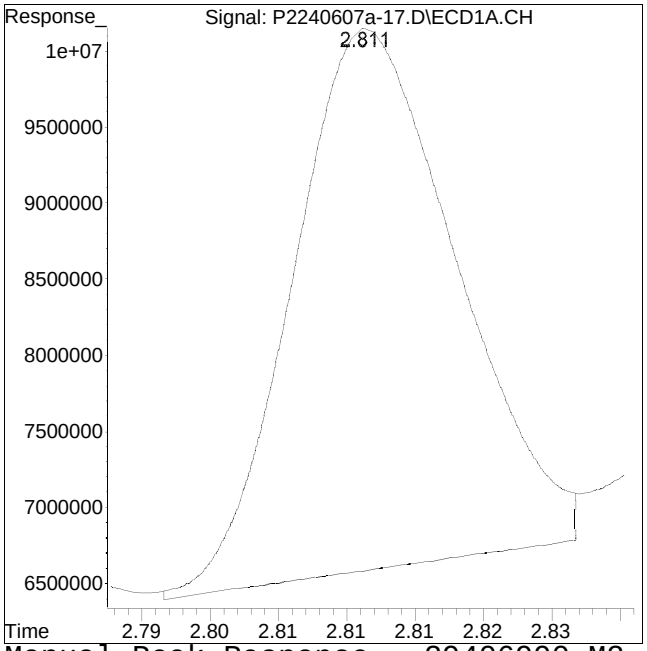
Original Peak Response = 26309294 Manual Peak Response = 11798519 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-17.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:01 Instrument : Pest 2
Sample : L2430219-09,42,, Quant Date : 6/7/2024 10:20 am

Compound #10: 1260-2



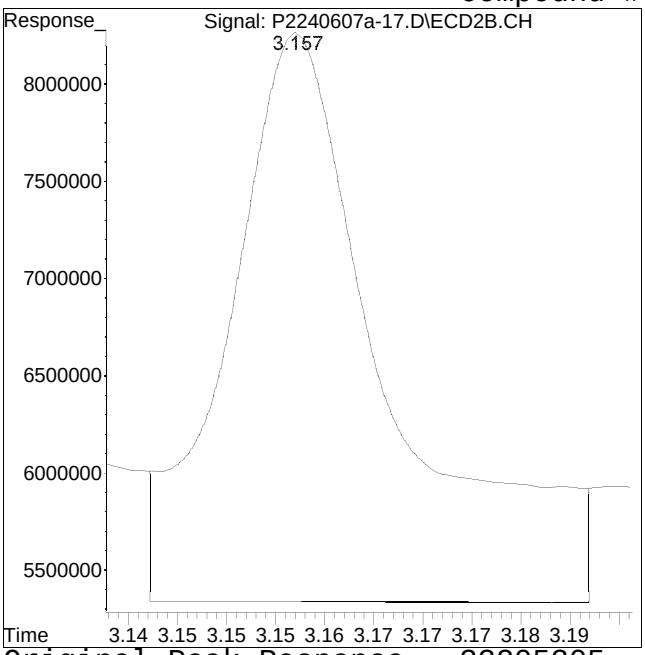


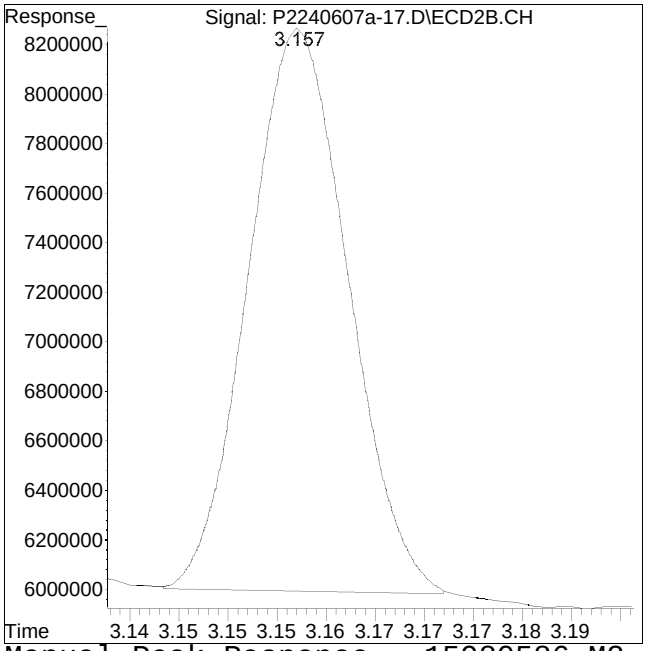
Original Peak Response = 48644675 Manual Peak Response = 29406990 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-17.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:01 Instrument : Pest 2
Sample : L2430219-09,42,, Quant Date : 6/7/2024 10:20 am

Compound #61: 1260-2 #2



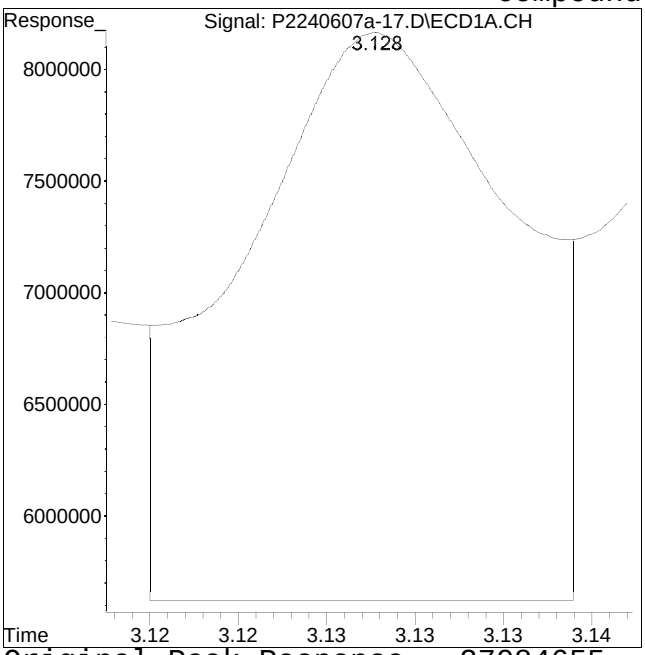


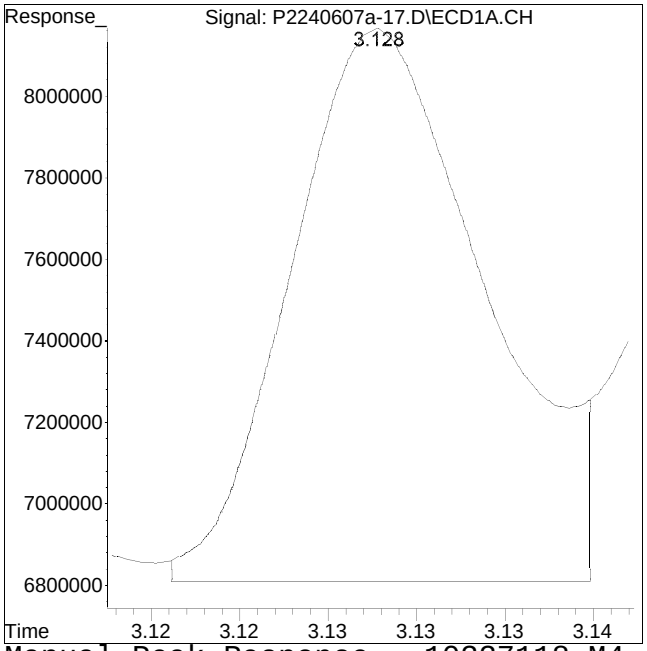
Original Peak Response = 33205305 Manual Peak Response = 15980586 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-17.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:01 Instrument : Pest 2
Sample : L2430219-09,42,, Quant Date : 6/7/2024 10:20 am

Compound #11: 1260-3



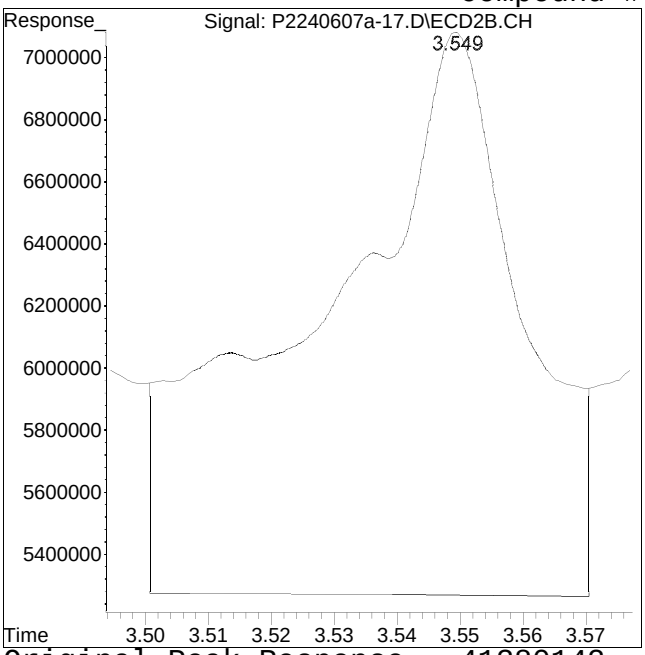


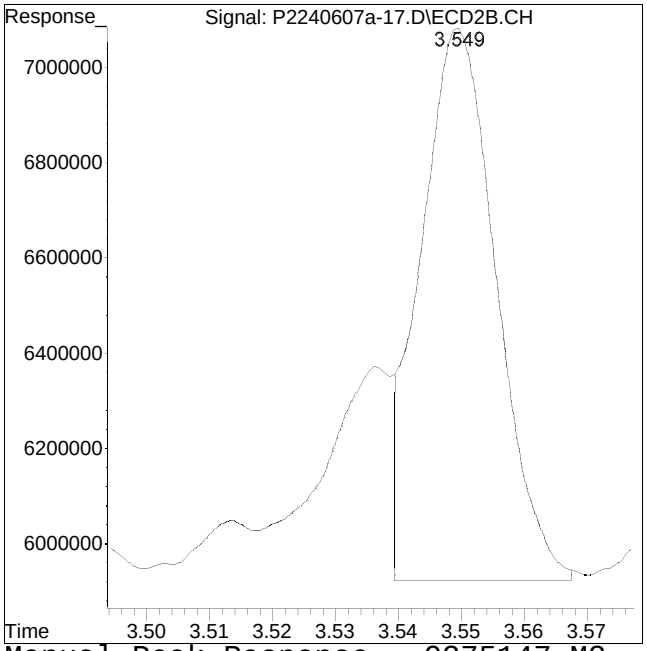
Original Peak Response = 27084655 Manual Peak Response = 10337118 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-17.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:01 Instrument : Pest 2
Sample : L2430219-09,42,, Quant Date : 6/7/2024 10:20 am

Compound #62: 1260-3 #2



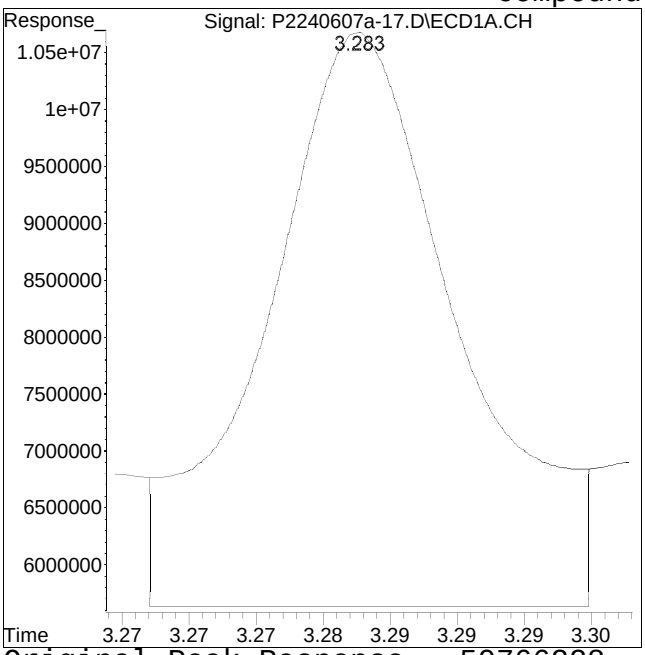


Original Peak Response = 41380142 Manual Peak Response = 9275147 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

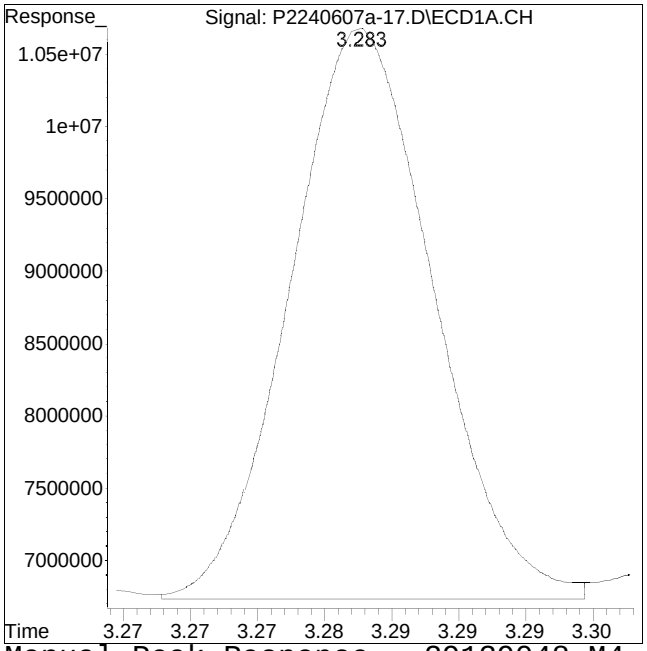
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-17.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:01 Instrument : Pest 2
Sample : L2430219-09,42,, Quant Date : 6/7/2024 10:20 am

Compound #12: 1260-4



Original Peak Response = 50766228



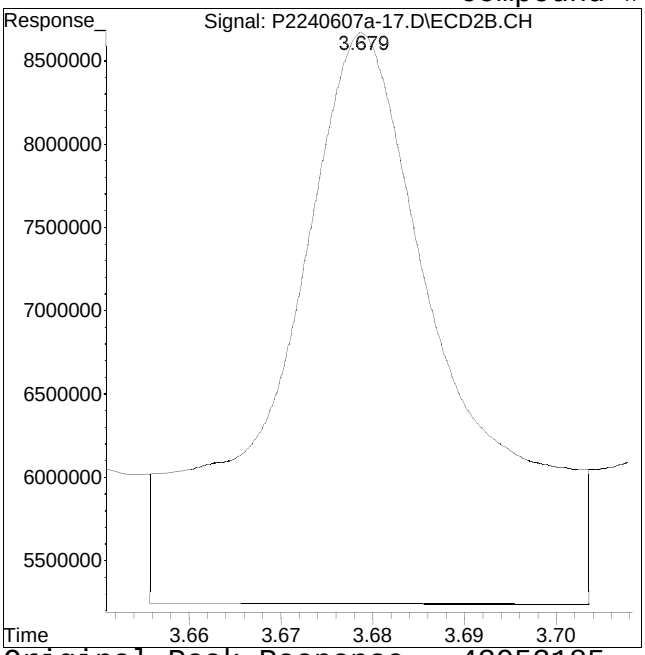
Manual Peak Response = 29139048 M4

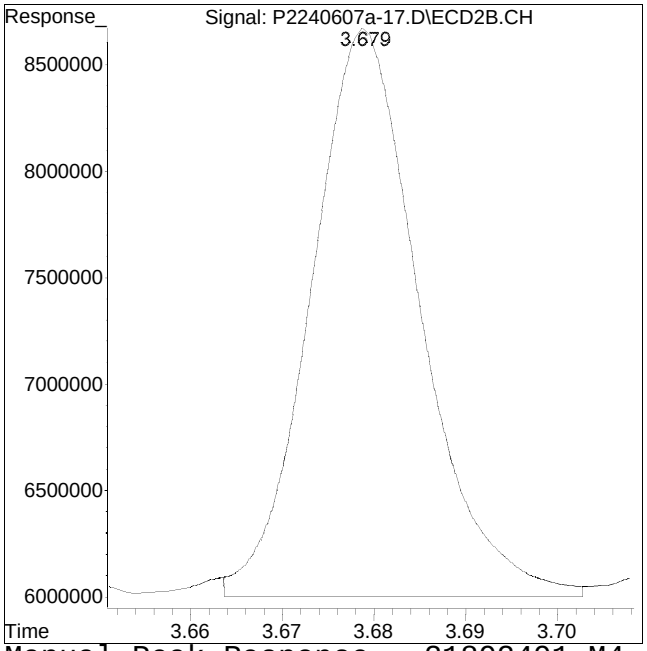
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-17.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:01 Instrument : Pest 2
Sample : L2430219-09,42,, Quant Date : 6/7/2024 10:20 am

Compound #63: 1260-4 #2



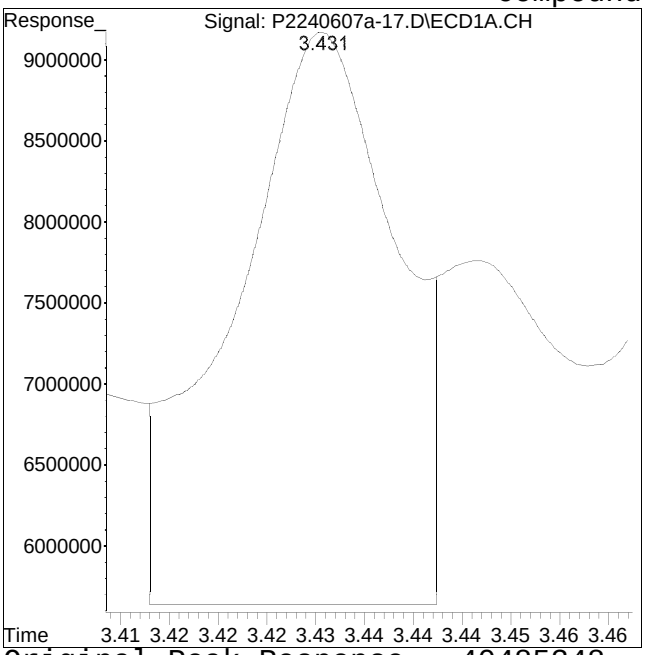


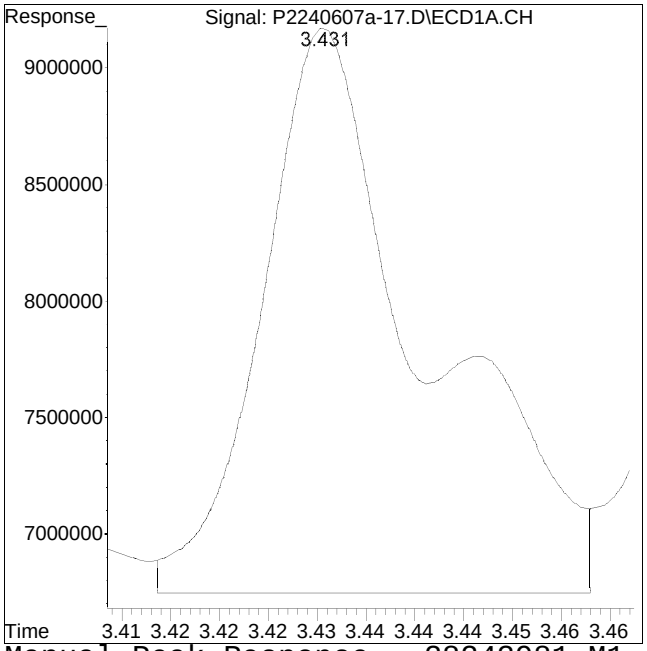
Original Peak Response = 43953185 Manual Peak Response = 21892491 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-17.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:01 Instrument : Pest 2
Sample : L2430219-09,42,, Quant Date : 6/7/2024 10:20 am

Compound #13: 1260-5



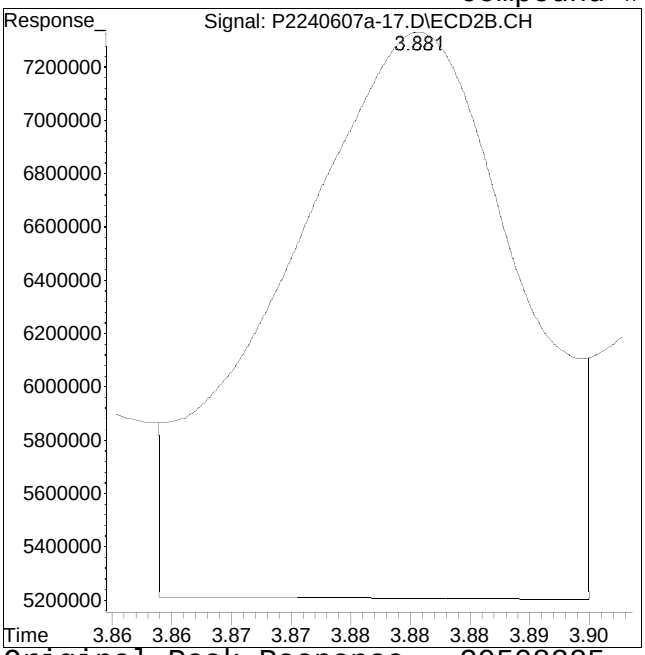


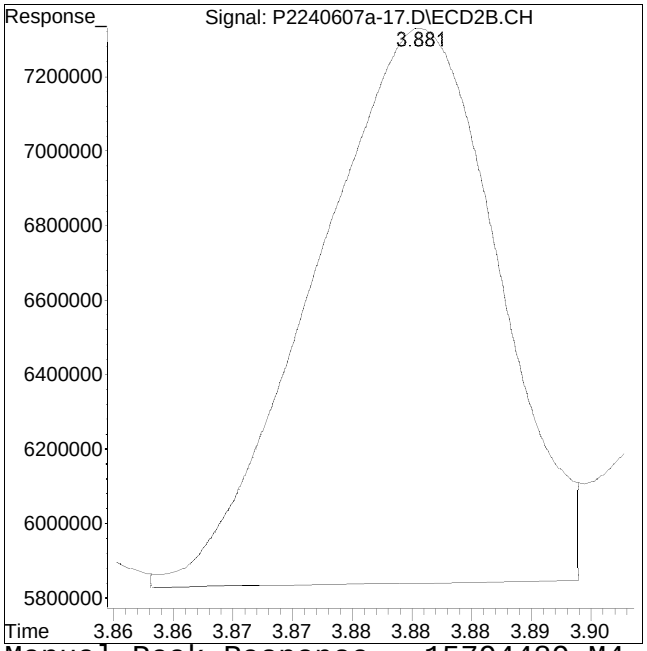
Original Peak Response = 40485348 Manual Peak Response = 28243981 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-17.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:01 Instrument : Pest 2
Sample : L2430219-09,42,, Quant Date : 6/7/2024 10:20 am

Compound #64: 1260-5 #2



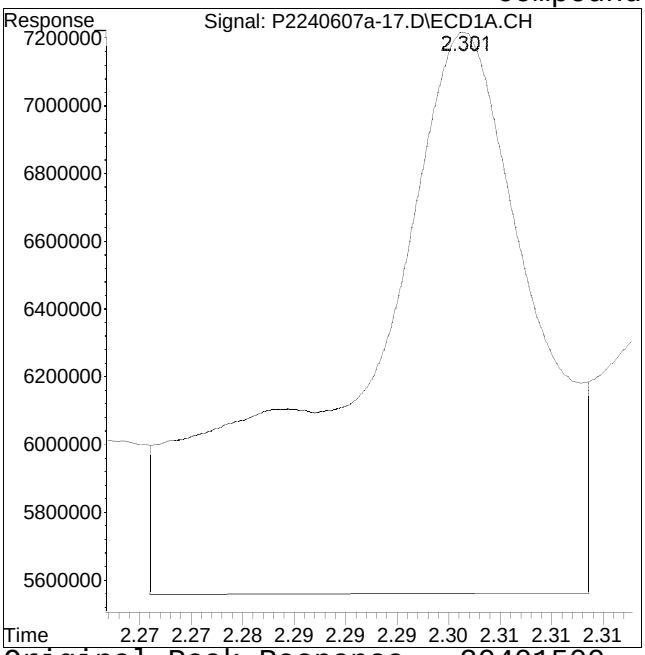


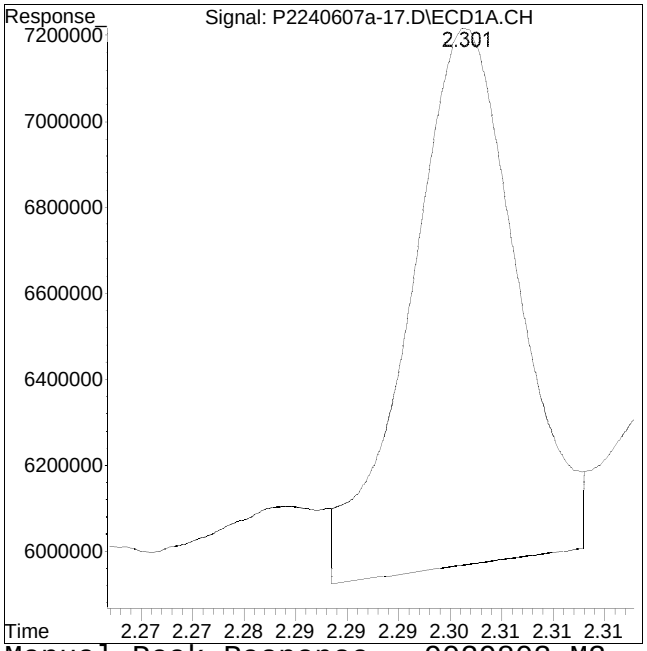
Original Peak Response = 29508225 Manual Peak Response = 15794489 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-17.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:01 Instrument : Pest 2
Sample : L2430219-09,42,, Quant Date : 6/7/2024 10:20 am

Compound #18: 1254-1



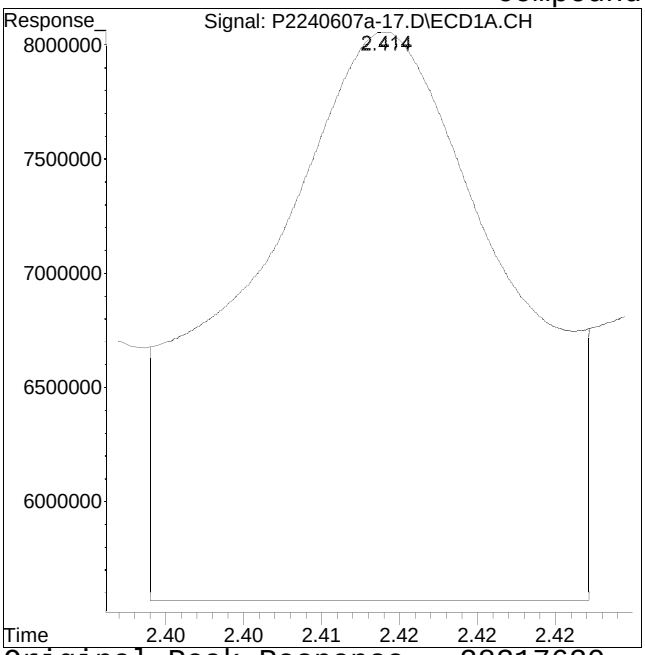


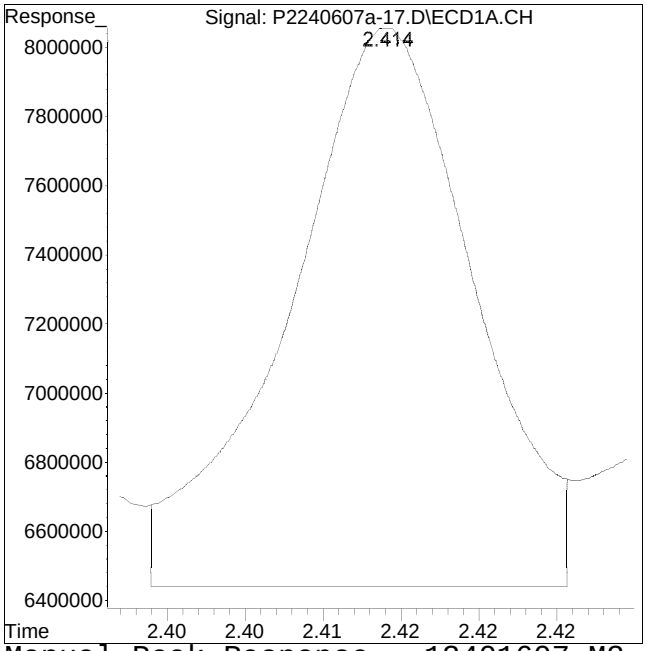
Original Peak Response = 20401500 Manual Peak Response = 9029803 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-17.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:01 Instrument : Pest 2
Sample : L2430219-09,42,, Quant Date : 6/7/2024 10:20 am

Compound #19: 1254-2



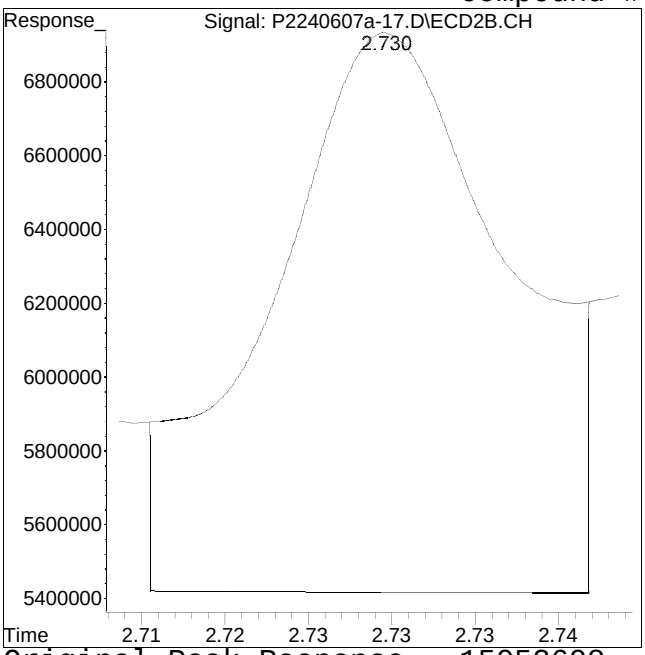


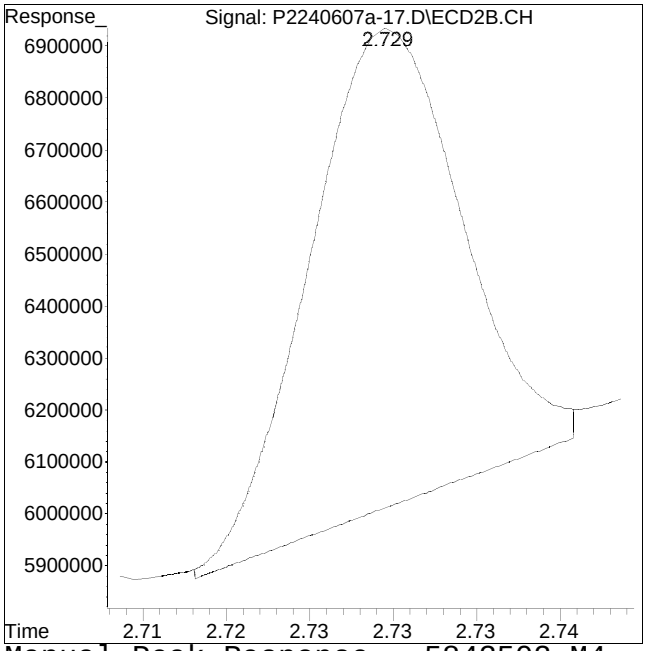
Original Peak Response = 28317630 Manual Peak Response = 13401607 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-17.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:01 Instrument : Pest 2
Sample : L2430219-09,42,, Quant Date : 6/7/2024 10:20 am

Compound #70: 1254-2 #2



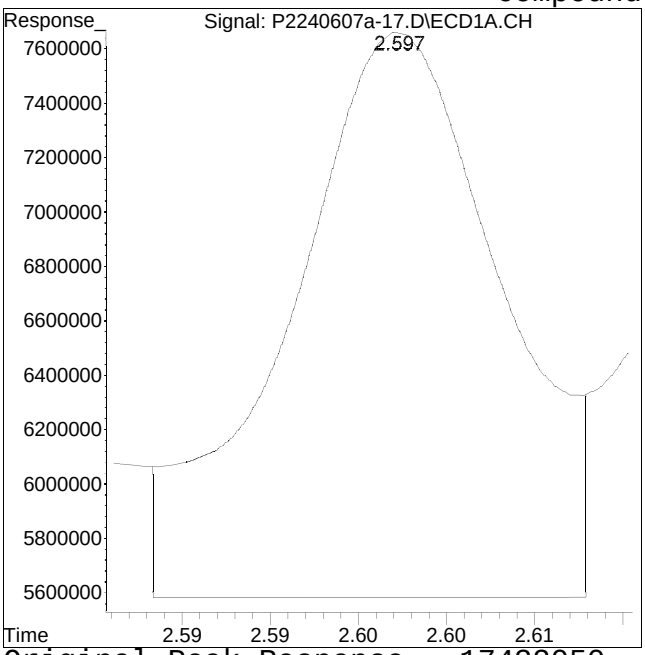


Original Peak Response = 15052698 Manual Peak Response = 5843502 M4
M4 = Poor automated baseline construction.

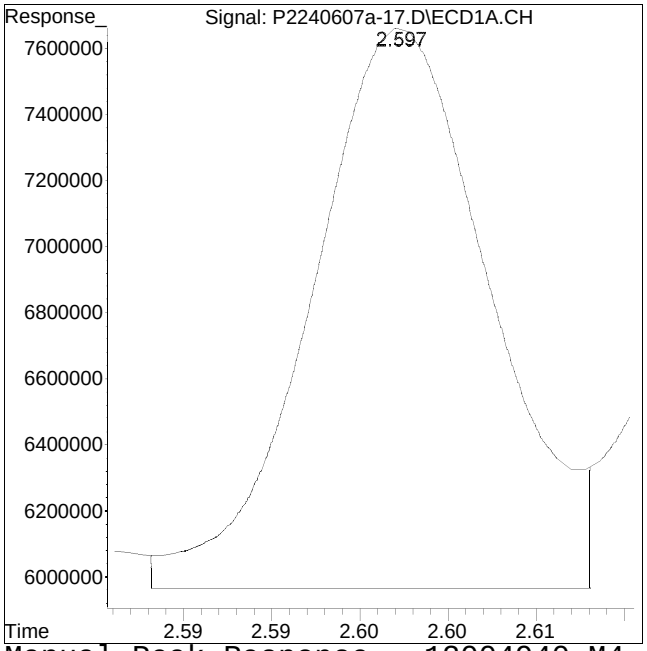
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-17.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:01 Instrument : Pest 2
Sample : L2430219-09,42,, Quant Date : 6/7/2024 10:20 am

Compound #20: 1254-3



Original Peak Response = 17432050



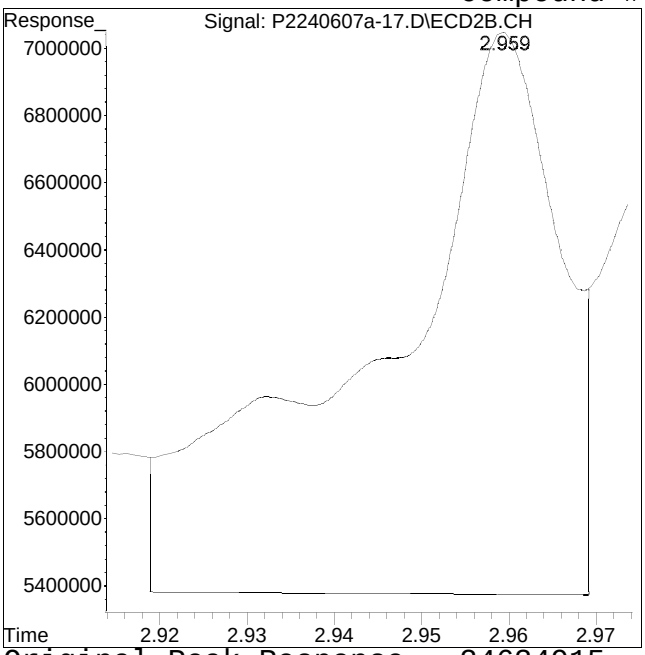
Manual Peak Response = 12004940 M4

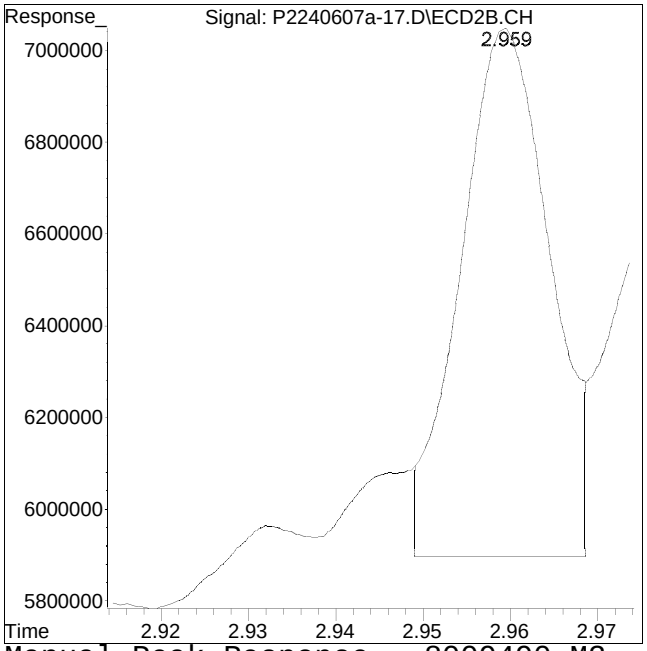
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-17.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:01 Instrument : Pest 2
Sample : L2430219-09,42,, Quant Date : 6/7/2024 10:20 am

Compound #71: 1254-3 #2



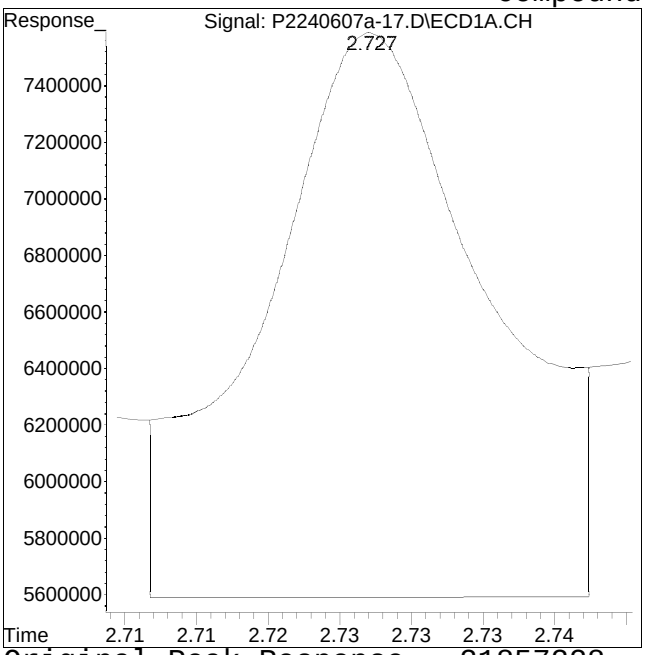


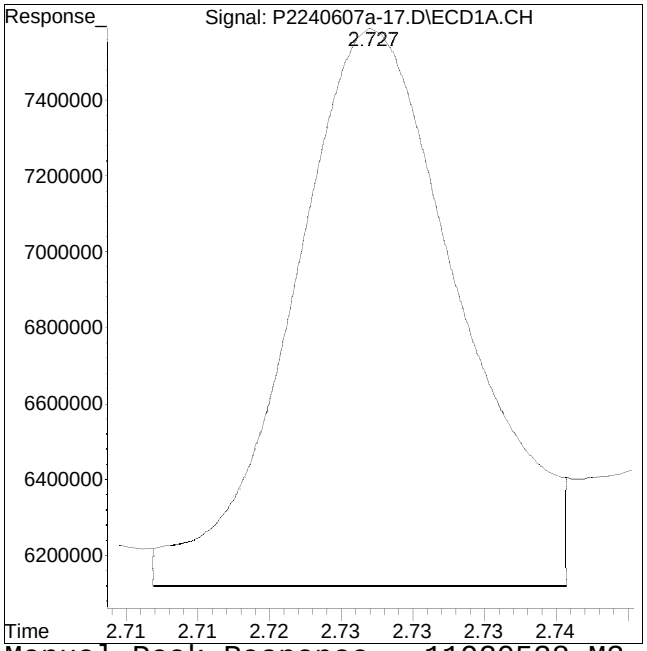
Original Peak Response = 24634915 Manual Peak Response = 8009490 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-17.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:01 Instrument : Pest 2
Sample : L2430219-09,42,, Quant Date : 6/7/2024 10:20 am

Compound #21: 1254-4



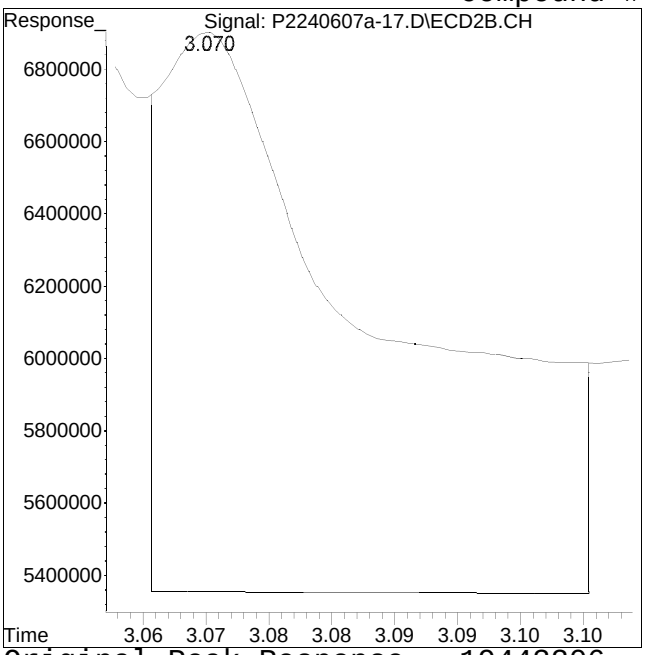


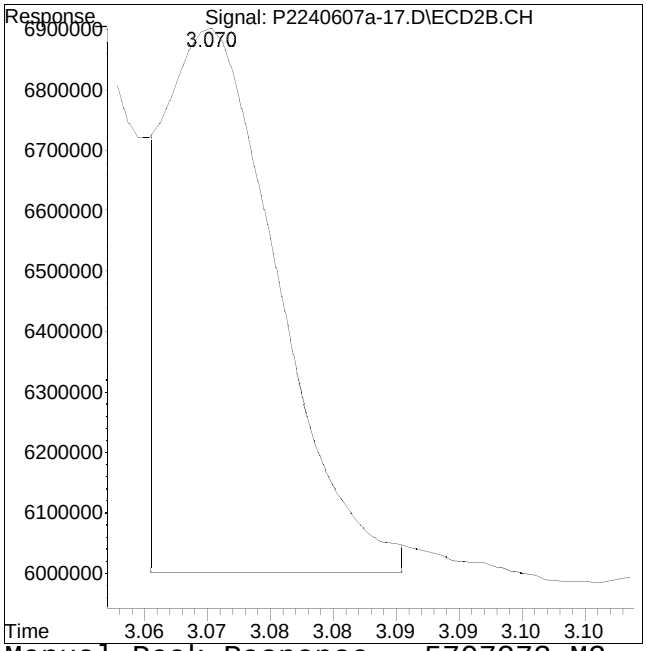
Original Peak Response = 21857228 Manual Peak Response = 11920538 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-17.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:01 Instrument : Pest 2
Sample : L2430219-09,42,, Quant Date : 6/7/2024 10:20 am

Compound #72: 1254-4 #2





Original Peak Response = 19443206 Manual Peak Response = 5707273 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 10:10
Operator : pest2:mhg
Sample : L2430219-10,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 10:20:34 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.159	1.228	380.4E6	233.3E6	25.000M3	25.000M3
	Standard Area 1 : #1 = 477774528				Recovery =	79.61%	
	Standard Area 1 : #2 = 323810098				Recovery =	72.06%	
14) i	2154_1br2nb	1.159	1.228	380.4E6	233.3E6	25.000M3	25.000M3
23) i	4268_1br2nb	1.159	1.228	380.4E6	233.3E6	25.000M3	25.000M3
34) i	1248_1br2nb	1.159	1.228	380.4E6	233.3E6	25.000M3	25.000M3
40) i	3262_1br2nb	1.159	1.228	380.4E6	233.3E6	25.000M3	25.000M3
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.444	1.603	355.7E6	203.8E6	17.836M3	17.726
	Spiked Amount 20.000	Range 30 - 150			Recovery =	89.18%	88.63%
3) s	Decachlorobi	4.018	4.530	187.4E6	104.9E6	14.540	19.373
	Spiked Amount 20.000	Range 30 - 150			Recovery =	72.70%	96.86%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	2.683	3.056	15625931	12399253	15.909M2	24.616M2
10) l2	1260-2	2.813	3.158	30755846	15892982	20.775M2	27.574M2
11) l2	1260-3	3.129	3.550	8831528	9434705	9.602M4	21.109M3

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 10:10
Operator : pest2:mhg
Sample : L2430219-10,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 10:20:34 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12) l2 1260-4	3.284	3.680	28791936	20066471	14.610M4	22.335M3
13) l2 1260-5	3.432	3.882	23159549	14693282	16.767M4	23.854
Sum 1260-1			107.2E6	72486693	77.663	119.488 D
Average 1260-1					15.533	23.898 D
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	2.303	2.643	8323952	4662265	10.893M4	10.855M4
19) l4 1254-2	2.416	2.730	11837337	6141453	8.689M3	12.537M4
20) l4 1254-3	2.599	2.960	10786513	7926516	7.455M4	10.958M3
21) l4 1254-4	2.729	3.071	10244663	4670998	10.118M4	10.443M3
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			41192466	23401232	37.155	44.792
Average 1254-1					9.289	11.198
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 10:10
Operator : pest2:mhg
Sample : L2430219-10,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 10:20:34 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

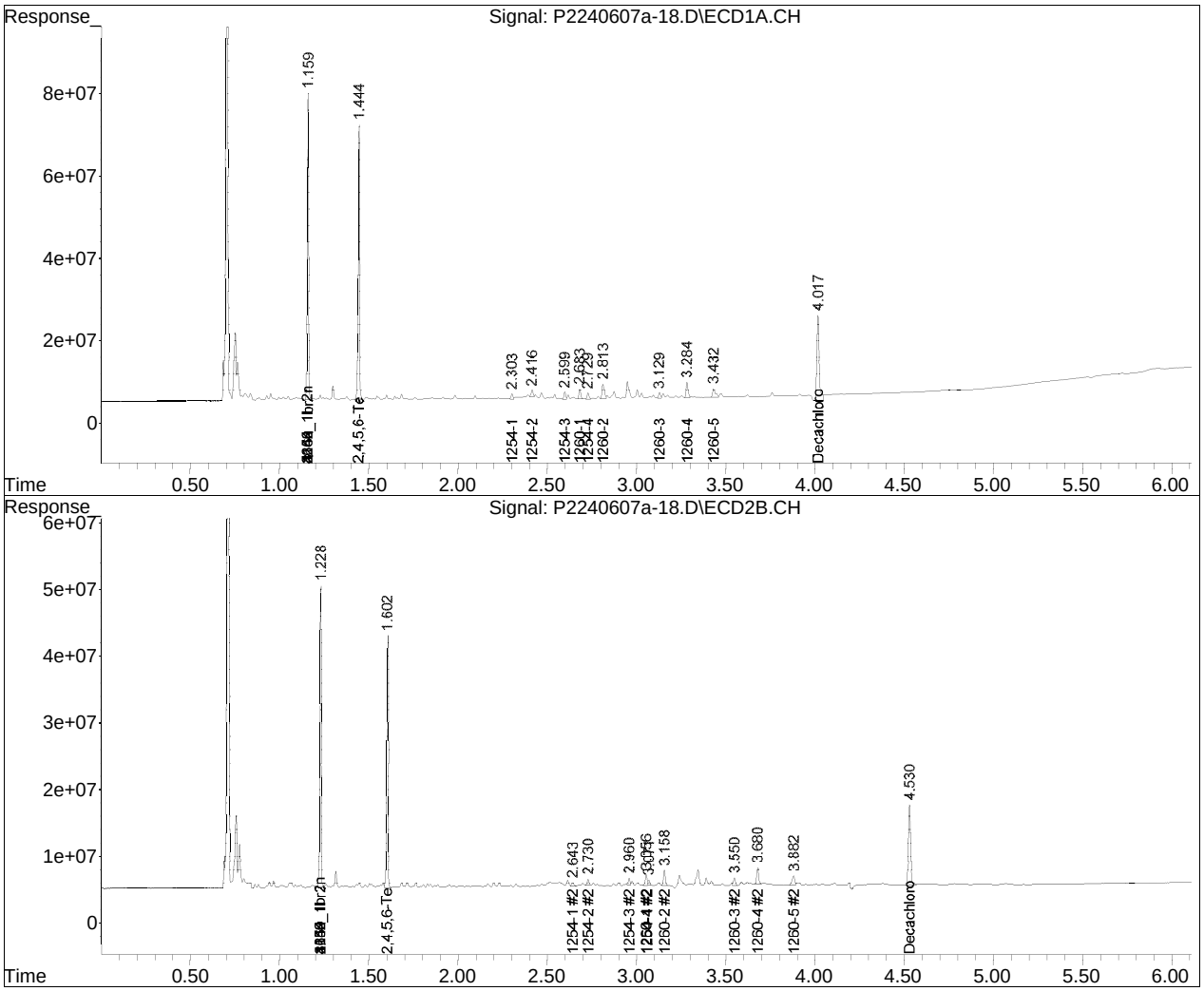
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240607a-02.D•

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 10:10
Operator : pest2:mhg
Sample : L2430219-10,42,,
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 10:20:34 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

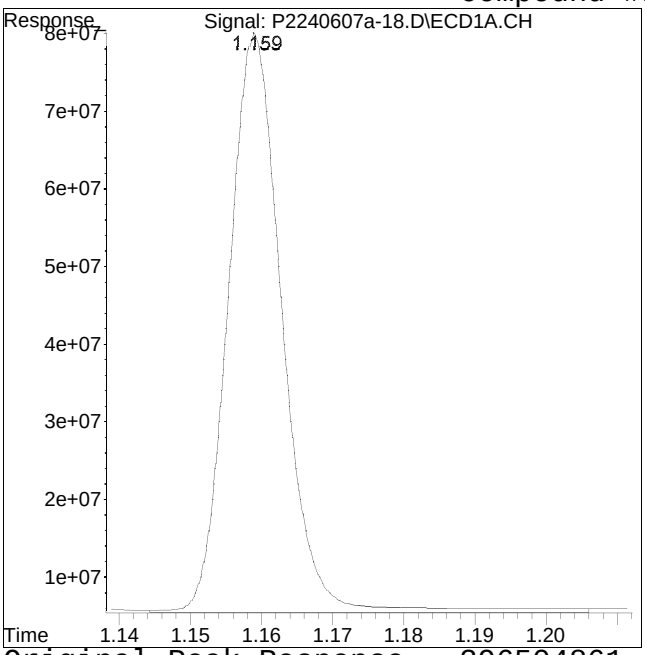
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

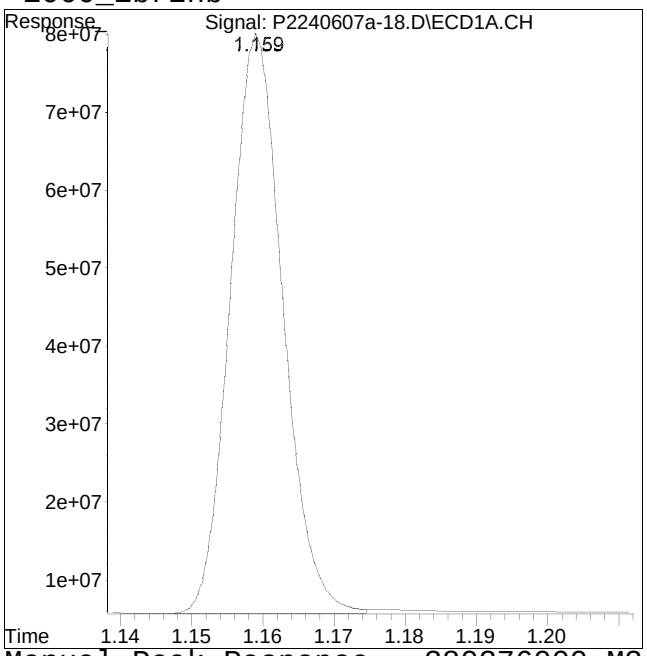


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-18.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:10 Instrument : Pest 2
Sample : L2430219-10,42,, Quant Date : 6/7/2024 10:20 am

Compound #1: 1660_1br2nb



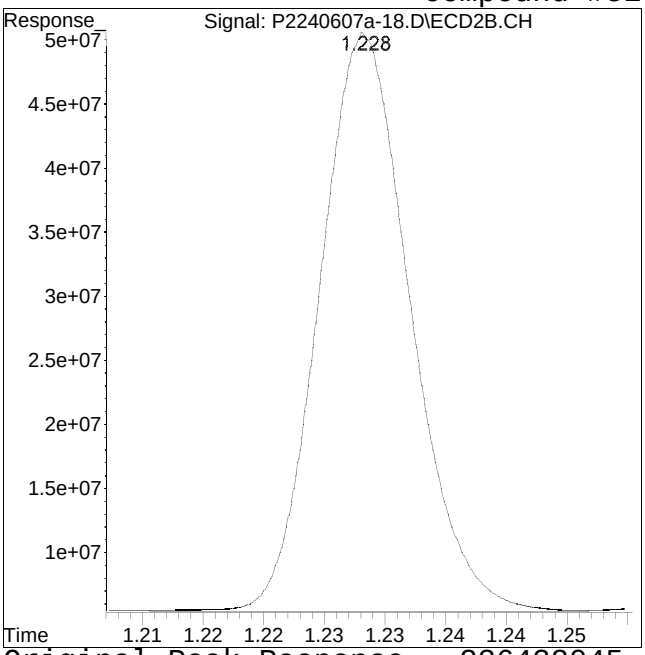


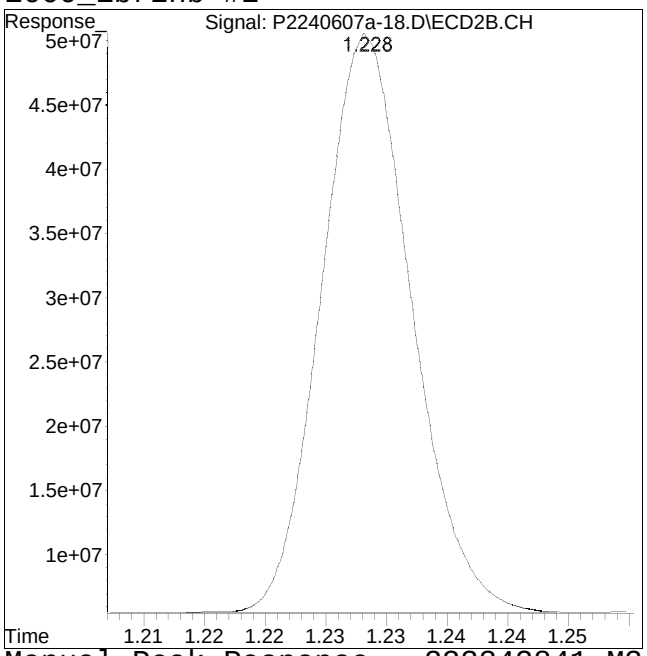
Original Peak Response = 396504861 Manual Peak Response = 380376000 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-18.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:10 Instrument : Pest 2
Sample : L2430219-10,42,, Quant Date : 6/7/2024 10:20 am

Compound #52: 1660_1br2nb #2



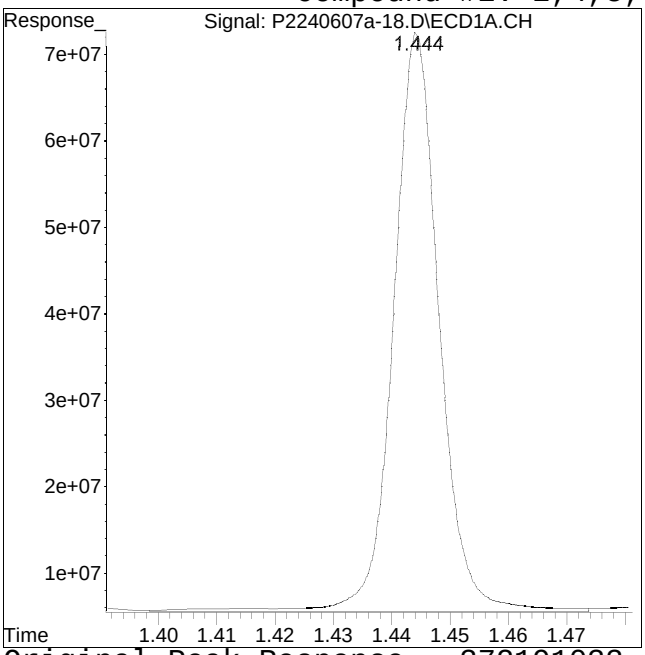


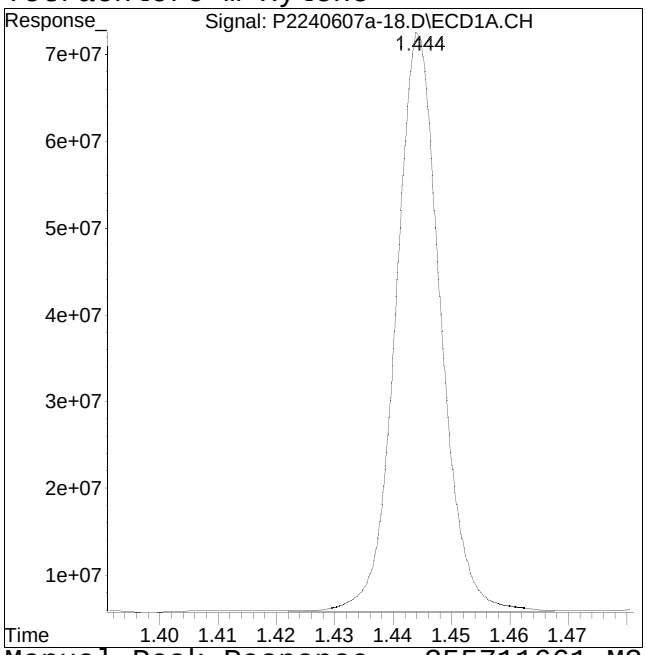
Original Peak Response = 236432045 Manual Peak Response = 233343841 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-18.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:10 Instrument : Pest 2
Sample : L2430219-10,42,, Quant Date : 6/7/2024 10:20 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



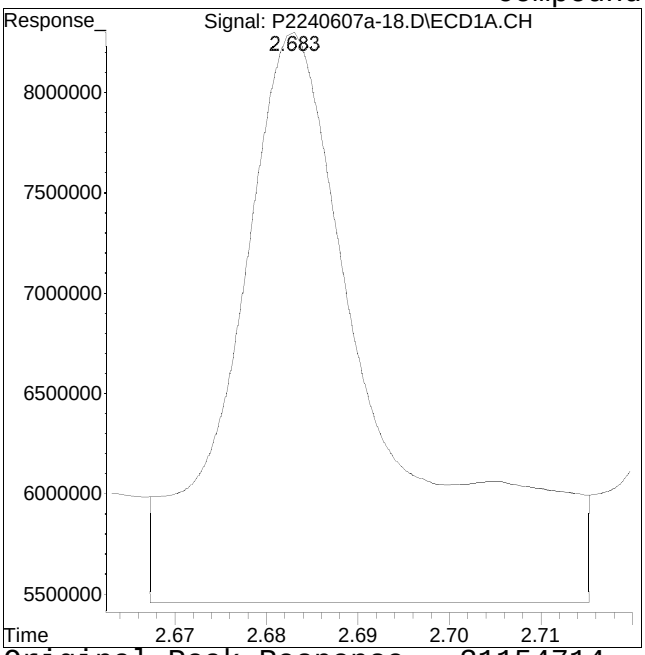


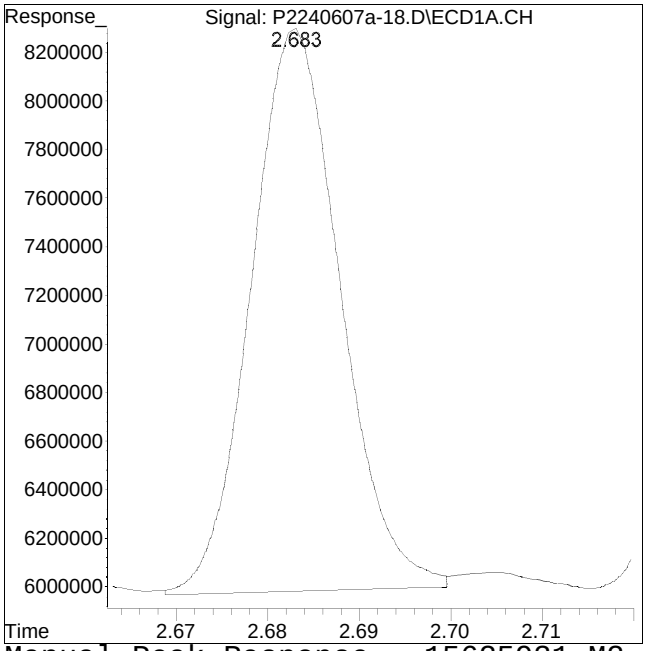
Original Peak Response = 372191033 Manual Peak Response = 355711661 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-18.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:10 Instrument : Pest 2
Sample : L2430219-10,42,, Quant Date : 6/7/2024 10:20 am

Compound #9: 1260-1



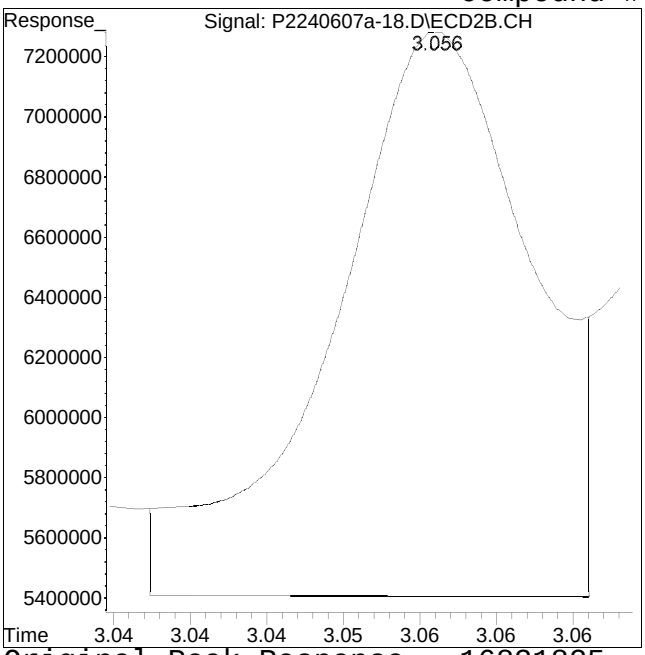


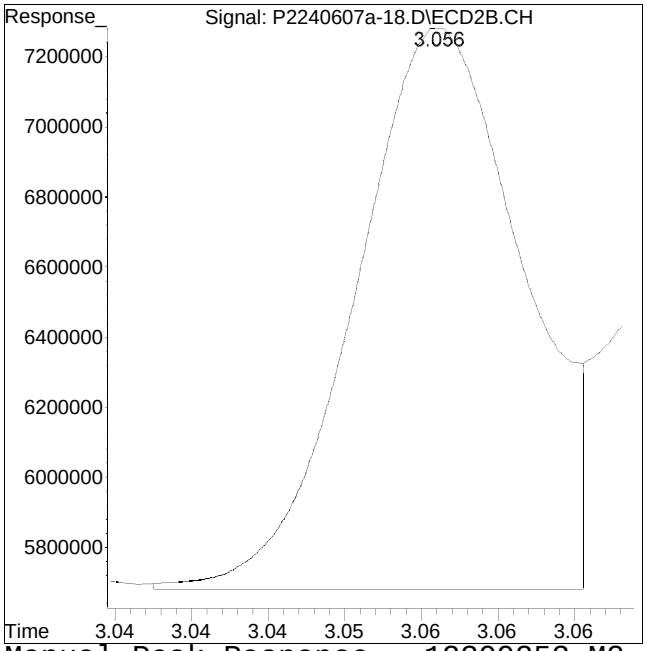
Original Peak Response = 31154714 Manual Peak Response = 15625931 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-18.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:10 Instrument : Pest 2
Sample : L2430219-10,42,, Quant Date : 6/7/2024 10:20 am

Compound #60: 1260-1 #2



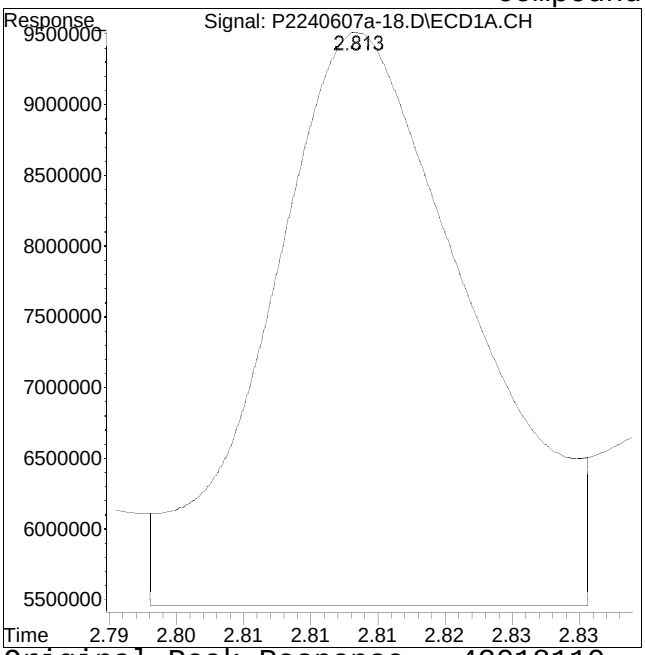


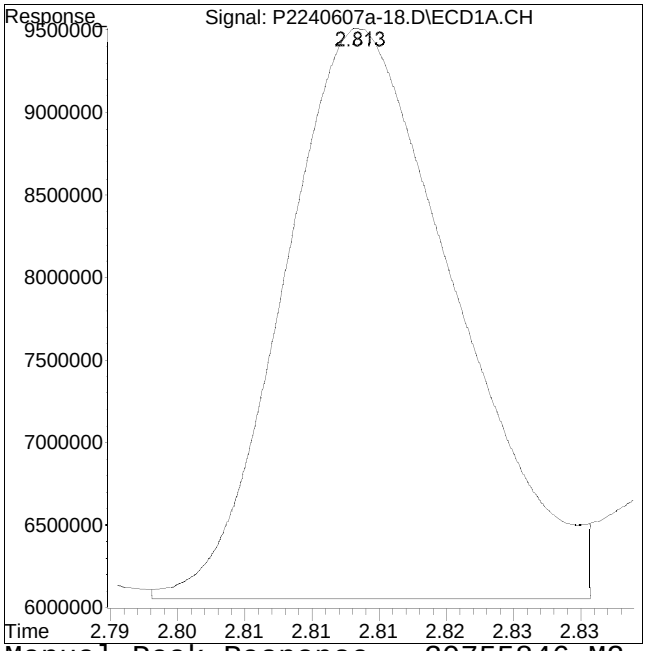
Original Peak Response = 16831825 Manual Peak Response = 12399253 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-18.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:10 Instrument : Pest 2
Sample : L2430219-10,42,, Quant Date : 6/7/2024 10:20 am

Compound #10: 1260-2



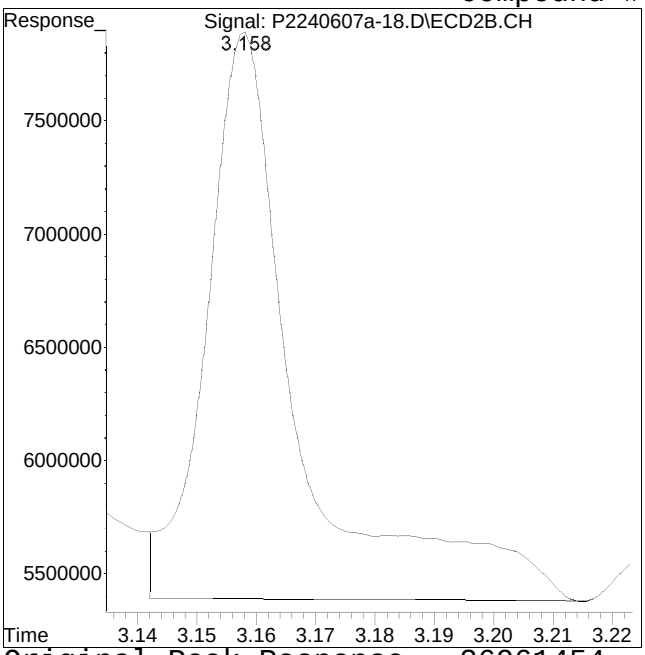


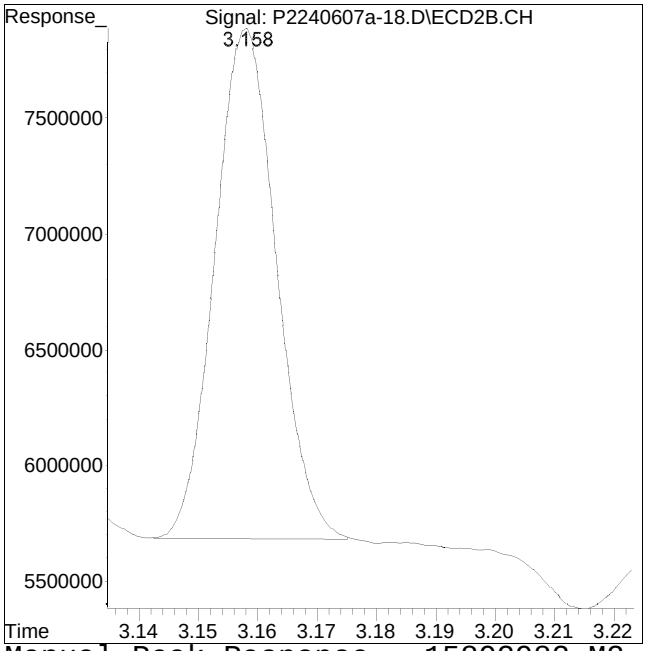
Original Peak Response = 42018110 Manual Peak Response = 30755846 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-18.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:10 Instrument : Pest 2
Sample : L2430219-10,42,, Quant Date : 6/7/2024 10:20 am

Compound #61: 1260-2 #2



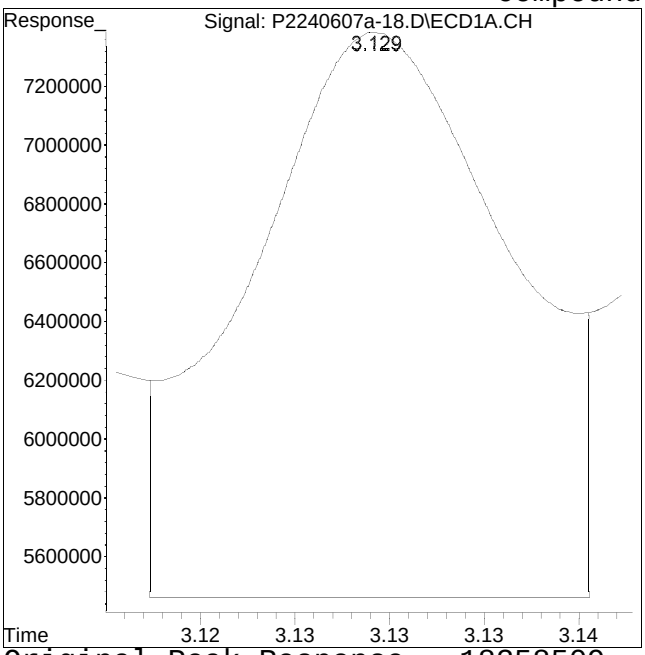


Original Peak Response = 26961454 Manual Peak Response = 15892982 M2
M2 = Peak not found by automatic integration algorithm.

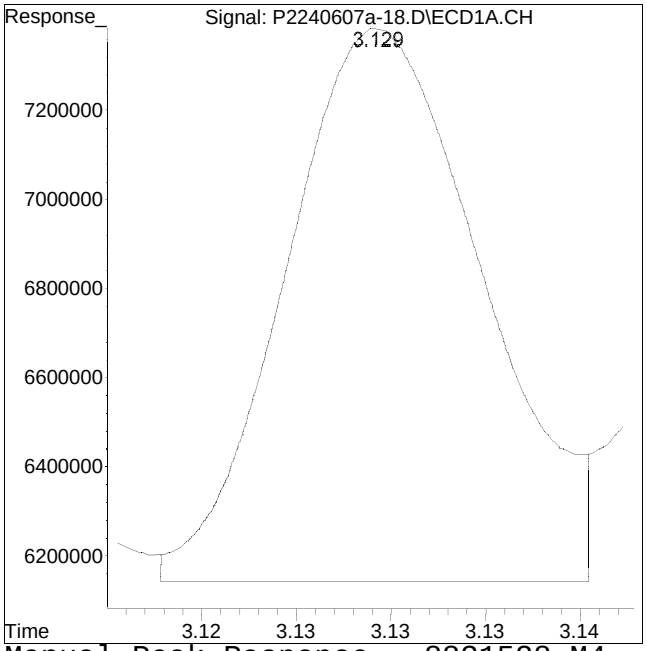
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-18.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:10 Instrument : Pest 2
Sample : L2430219-10,42,, Quant Date : 6/7/2024 10:20 am

Compound #11: 1260-3



Original Peak Response = 18358509



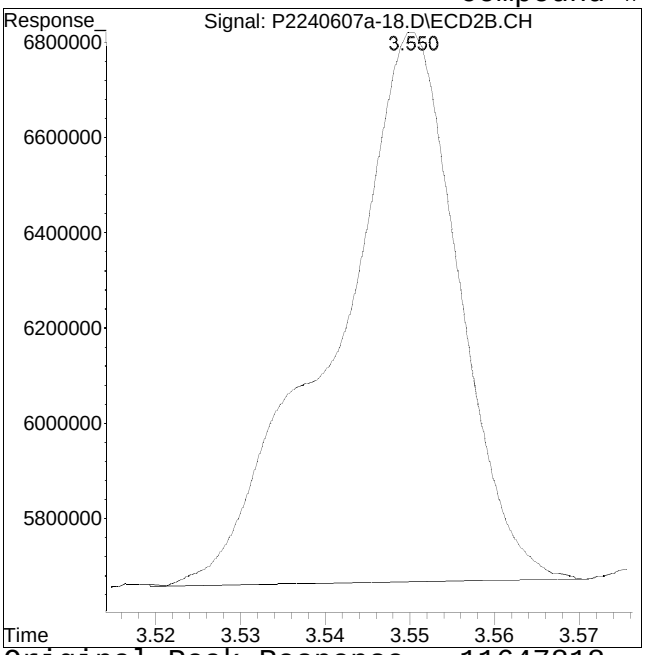
Manual Peak Response = 8831528 M4

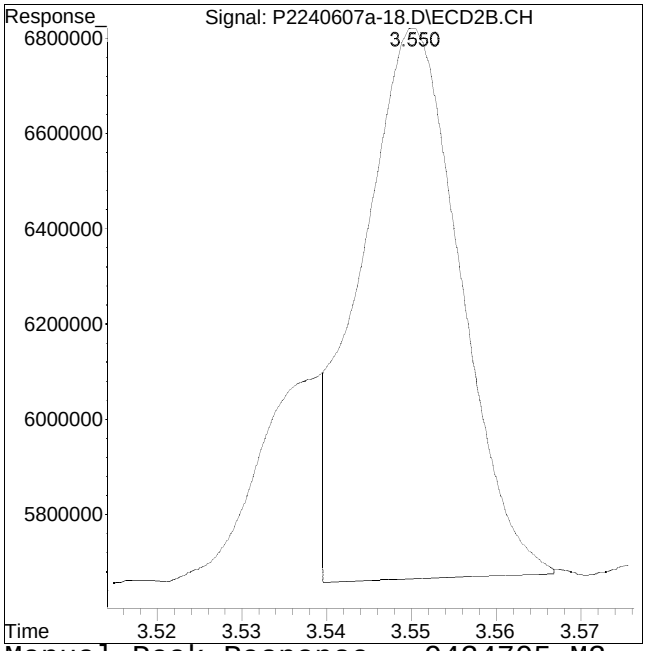
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-18.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:10 Instrument : Pest 2
Sample : L2430219-10,42,, Quant Date : 6/7/2024 10:20 am

Compound #62: 1260-3 #2



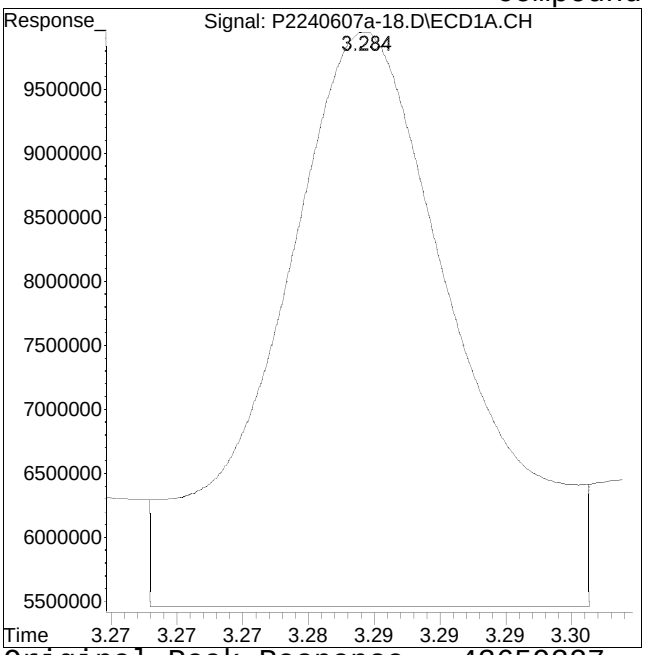


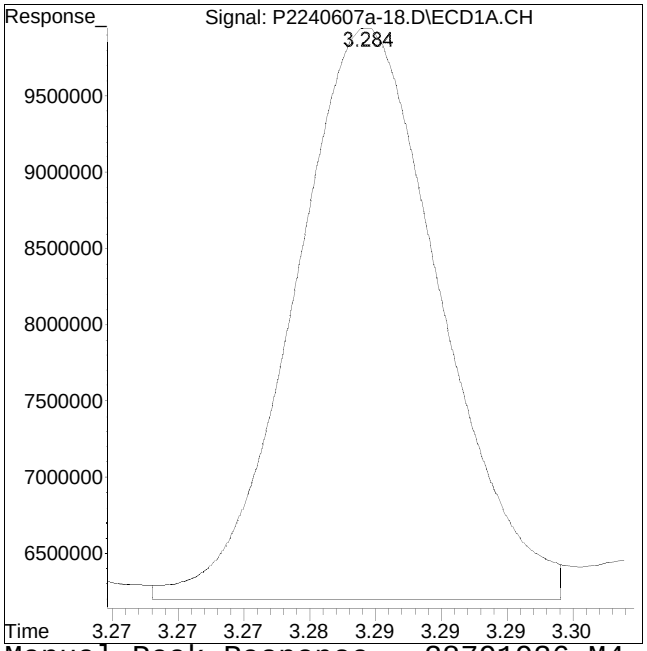
Original Peak Response = 11647818 Manual Peak Response = 9434705 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-18.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:10 Instrument : Pest 2
Sample : L2430219-10,42,, Quant Date : 6/7/2024 10:20 am

Compound #12: 1260-4



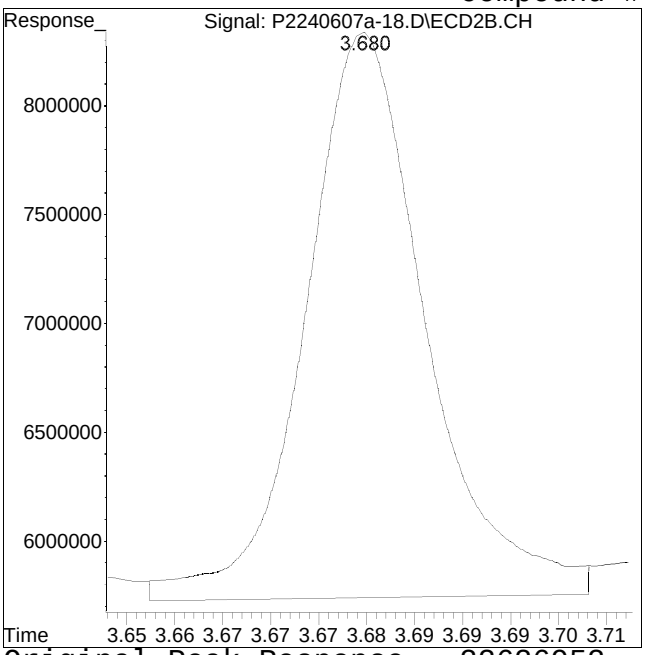


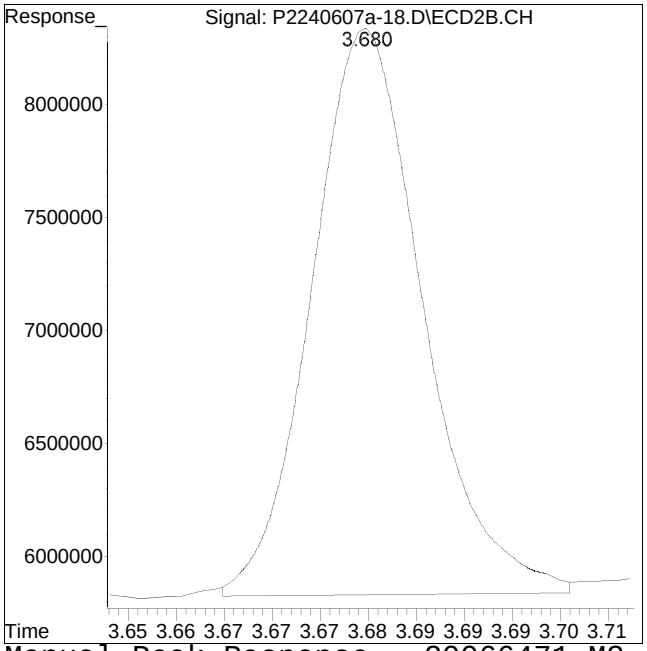
Original Peak Response = 43659327 Manual Peak Response = 28791936 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-18.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:10 Instrument : Pest 2
Sample : L2430219-10,42,, Quant Date : 6/7/2024 10:20 am

Compound #63: 1260-4 #2



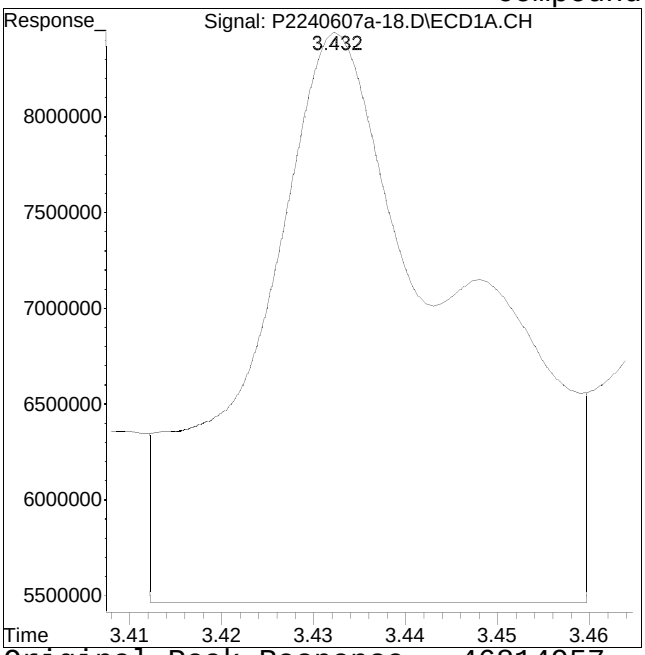


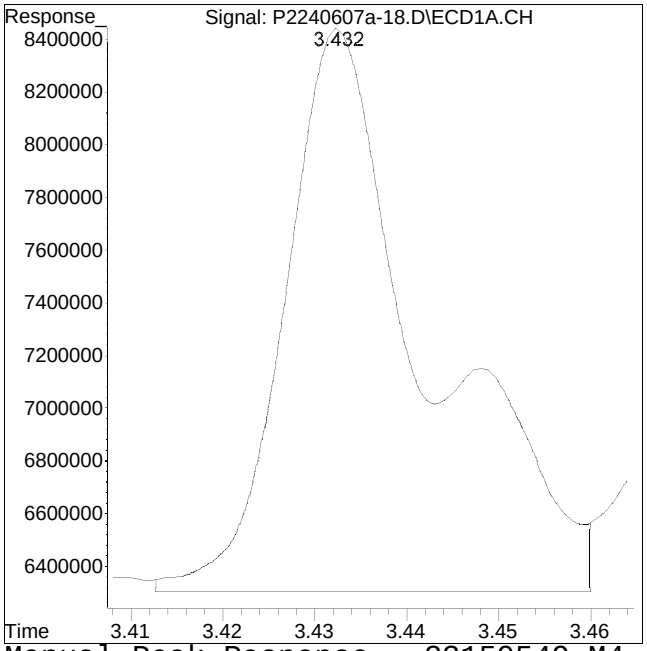
Original Peak Response = 22626952 Manual Peak Response = 20066471 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-18.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:10 Instrument : Pest 2
Sample : L2430219-10,42,, Quant Date : 6/7/2024 10:20 am

Compound #13: 1260-5



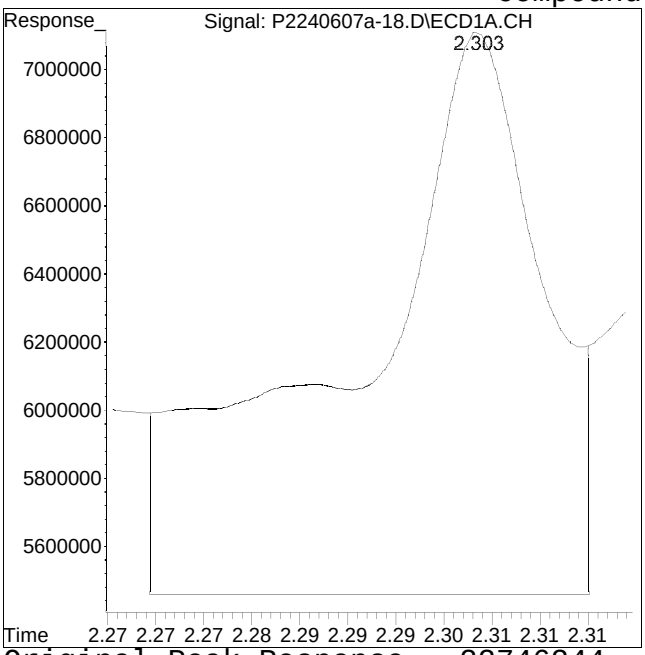


Original Peak Response = 46814957 Manual Peak Response = 23159549 M4
M4 = Poor automated baseline construction.

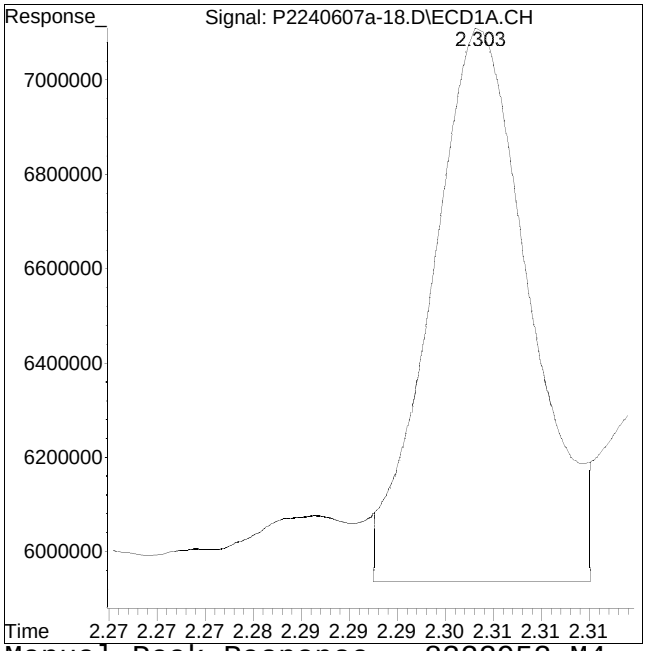
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-18.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:10 Instrument : Pest 2
Sample : L2430219-10,42,, Quant Date : 6/7/2024 10:20 am

Compound #18: 1254-1



Original Peak Response = 22746244



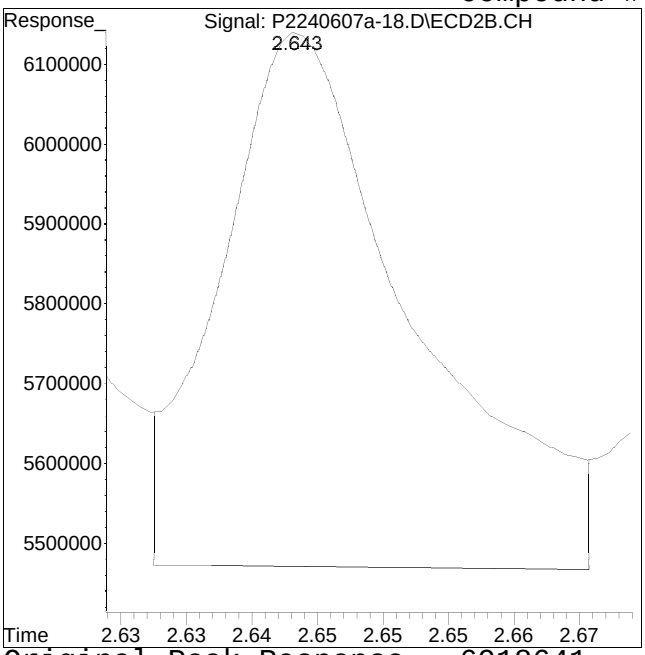
Manual Peak Response = 8323952 M4

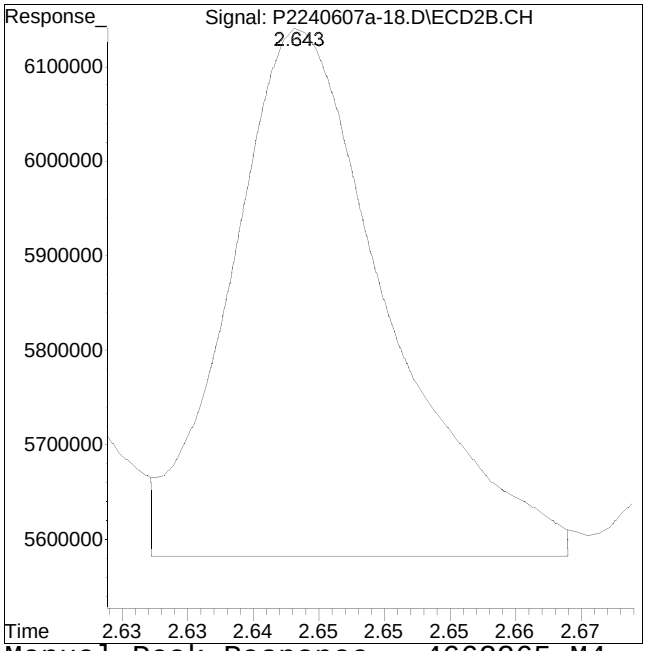
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-18.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:10 Instrument : Pest 2
Sample : L2430219-10,42,, Quant Date : 6/7/2024 10:20 am

Compound #69: 1254-1 #2



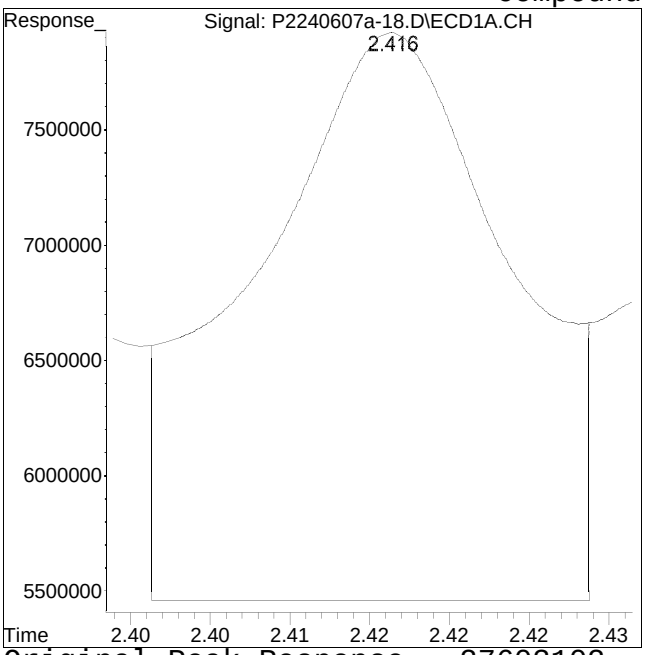


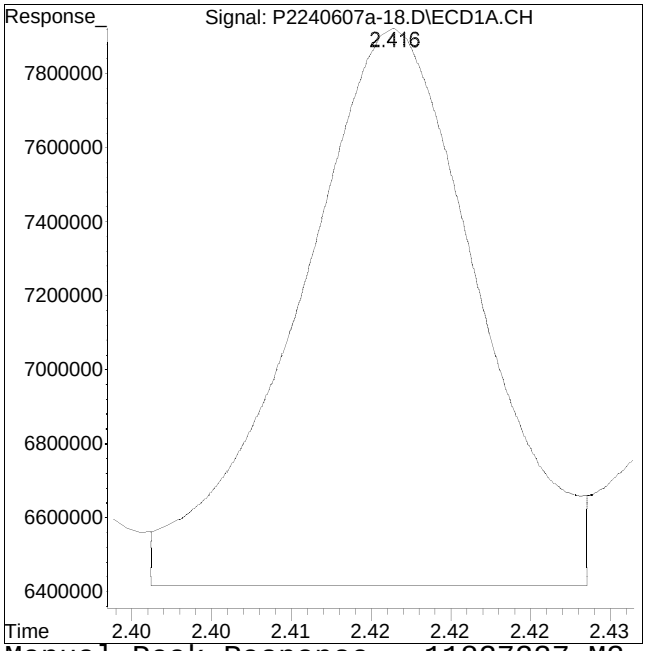
Original Peak Response = 6918641 Manual Peak Response = 4662265 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-18.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:10 Instrument : Pest 2
Sample : L2430219-10,42,, Quant Date : 6/7/2024 10:20 am

Compound #19: 1254-2



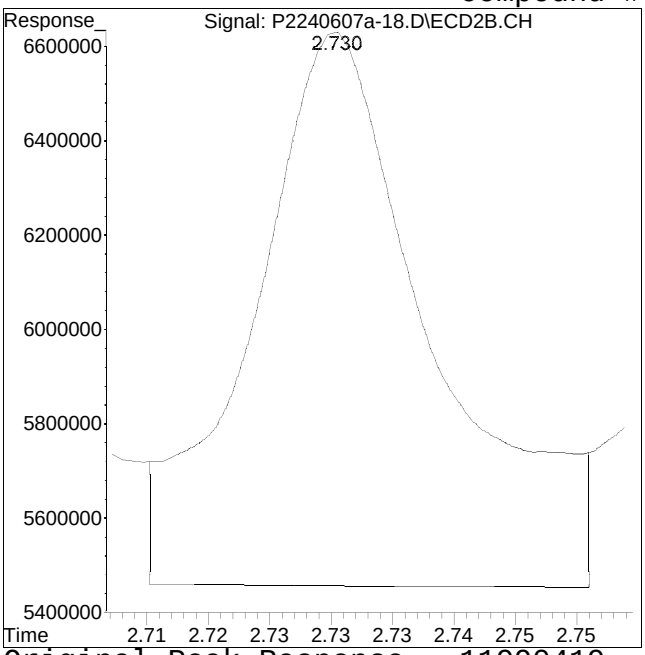


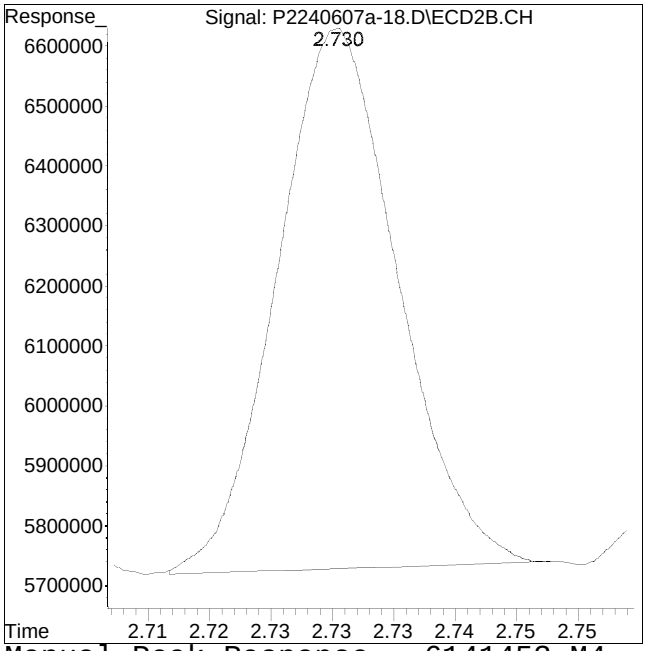
Original Peak Response = 27603102 Manual Peak Response = 11837337 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-18.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:10 Instrument : Pest 2
Sample : L2430219-10,42,, Quant Date : 6/7/2024 10:20 am

Compound #70: 1254-2 #2



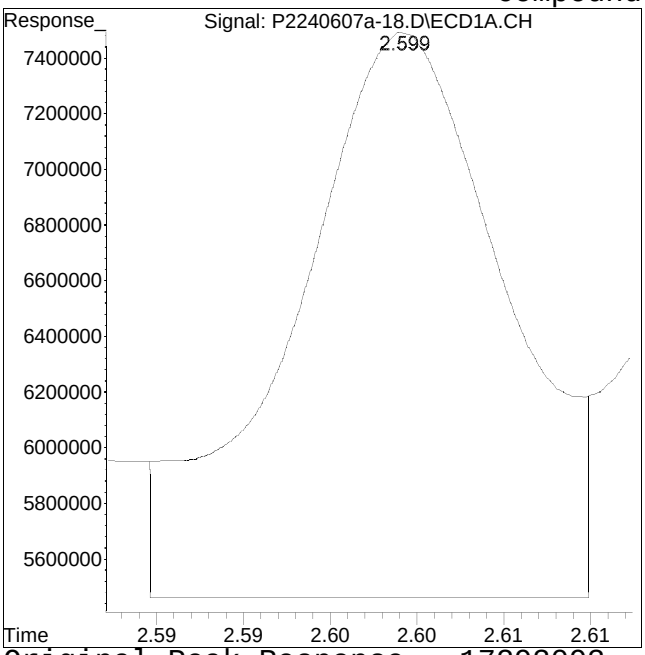


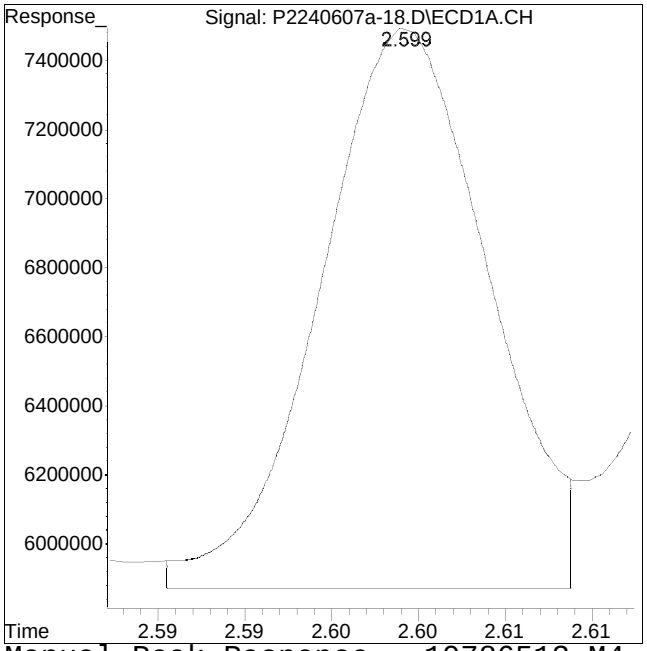
Original Peak Response = 11990419 Manual Peak Response = 6141453 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-18.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:10 Instrument : Pest 2
Sample : L2430219-10,42,, Quant Date : 6/7/2024 10:20 am

Compound #20: 1254-3



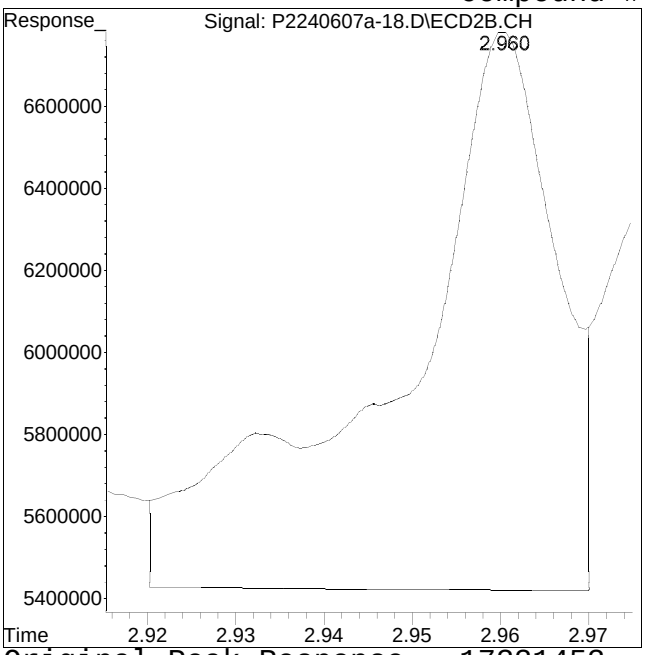


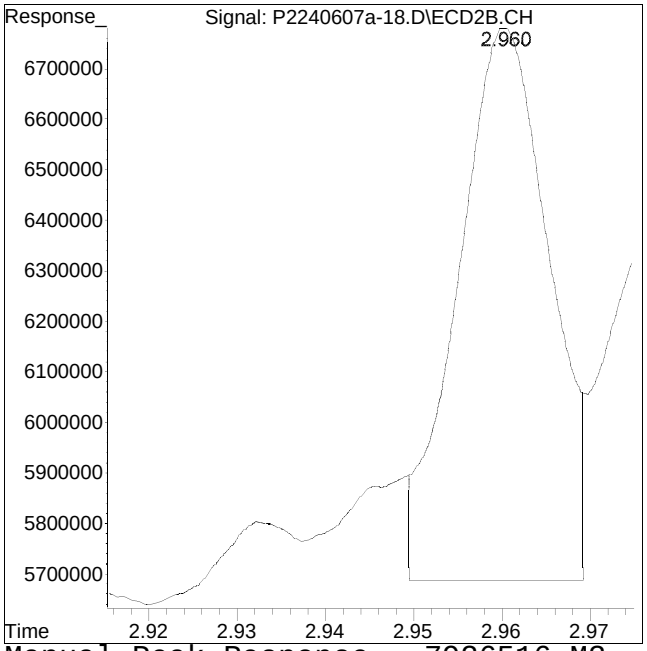
Original Peak Response = 17293093 Manual Peak Response = 10786513 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-18.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:10 Instrument : Pest 2
Sample : L2430219-10,42,, Quant Date : 6/7/2024 10:20 am

Compound #71: 1254-3 #2



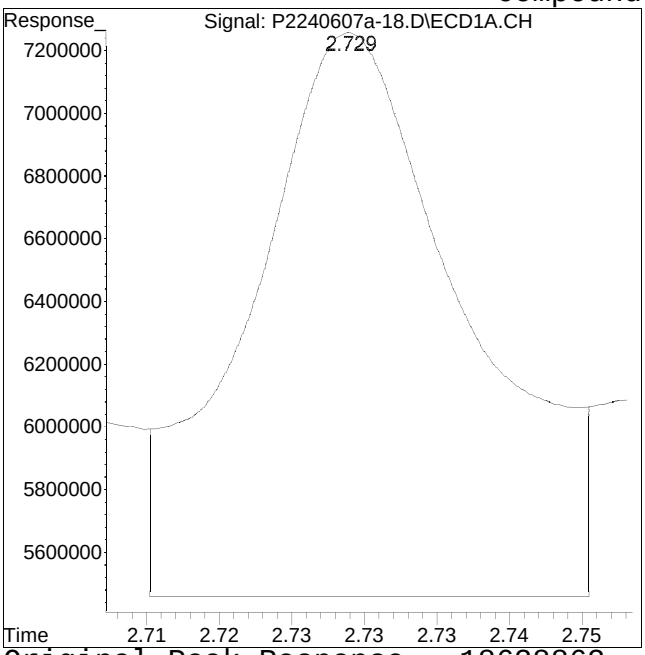


Original Peak Response = 17331453 Manual Peak Response = 7926516 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

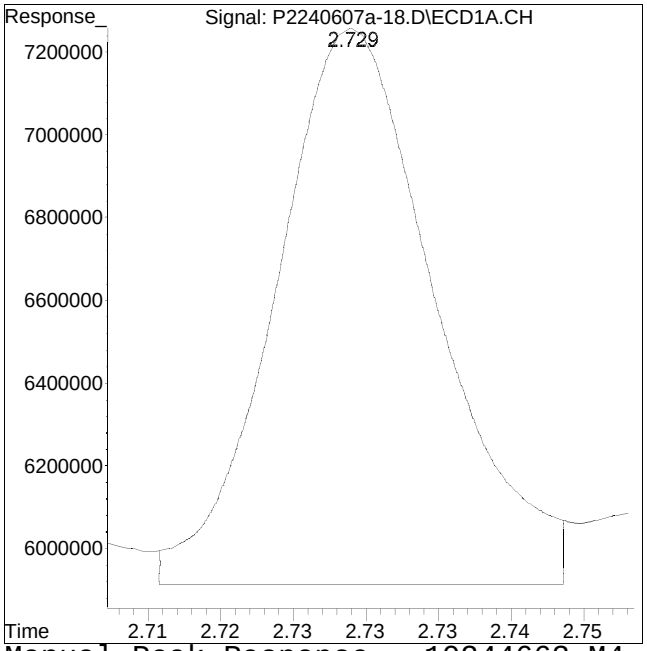
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-18.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:10 Instrument : Pest 2
Sample : L2430219-10,42,, Quant Date : 6/7/2024 10:20 am

Compound #21: 1254-4



Original Peak Response = 18638862



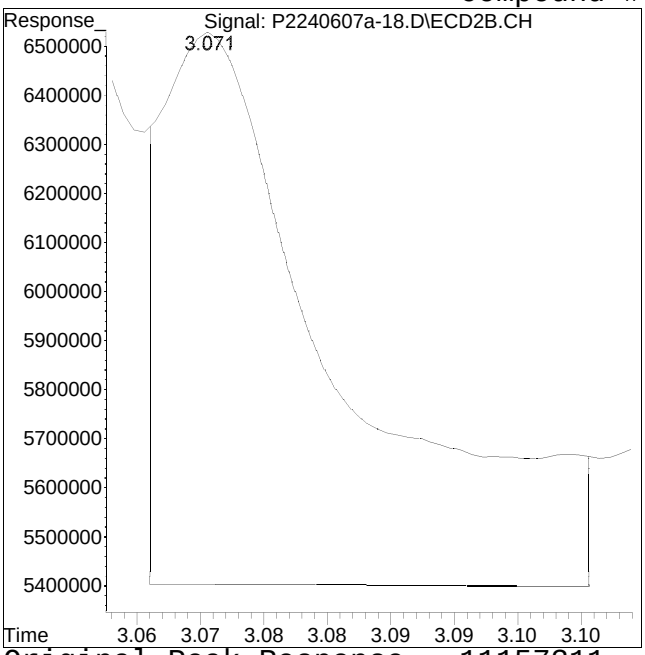
Manual Peak Response = 10244663 M4

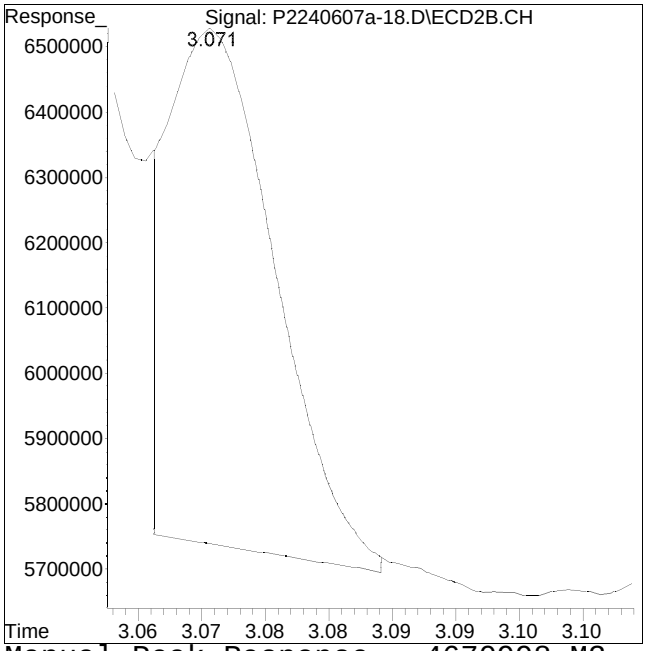
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-18.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 10:10 Instrument : Pest 2
Sample : L2430219-10,42,, Quant Date : 6/7/2024 10:20 am

Compound #72: 1254-4 #2





Original Peak Response = 11157311 Manual Peak Response = 4670998 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Aroclor Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
PCBs

Client	**: Alpha Geoscience**	**Lab Number**	**: L2430219**
Project Name	**: HUNTINGTON READY MIXED**	**Project Number**	**: 20116**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21102**
Calibration dates	**: 05/06/24 20:49 05/07/24 15:31**		

Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetra	1.008	1.224	1.205	1.670	1.335	1.423	1.311	17.16
3)	s	Decachlorobip	0.753	0.820	0.780	1.047	0.825	0.856	0.847	12.35
4)	l1	1016-1	0.020	0.023	0.022	0.027	0.021	0.021	0.022	11.84
5)	l1	1016-2	0.038	0.051	0.050	0.061	0.047	0.048	0.049	14.92
6)	l1	1016-3	0.079	0.098	0.096	0.128	0.101	0.105	0.101	15.70
7)	l1	1016-4	0.032	0.040	0.039	0.050	0.039	0.041	0.040	14.48
8)	l1	1016-5	0.039	0.044	0.042	0.055	0.043	0.045	0.045	11.78
9)	l2	1260-1	0.057	0.065	0.061	0.079	0.061	0.064	0.065	11.55
10)	l2	1260-2	0.081	0.096	0.095	0.120	0.094	0.098	0.097	12.77
11)	l2	1260-3	0.050	0.058	0.060	0.074	0.058	0.062	0.060	13.00
12)	l2	1260-4	0.105	0.125	0.123	0.162	0.128	0.134	0.130	14.38
13)	l2	1260-5	0.075	0.086	0.085	0.113	0.089	0.095	0.091	14.02
14)	i	2154_1br2nb	----------ISTD----------							
15)	l3	1221-2				0.015			0.015	0.00
16)	l3	1221-3				0.009			0.009	0.00
17)	l3	1221-4				0.035			0.035	0.00
18)	l4	1254-1				0.050			0.050	0.00
19)	l4	1254-2				0.090			0.090	0.00
20)	l4	1254-3				0.095			0.095	0.00
21)	l4	1254-4				0.067			0.067	0.00
22)	l4	1254-5				0.091			0.091	0.00
23)	i	4268_1br2nb	----------ISTD----------							
24)	l6	1242-1				0.019			0.019	0.00
25)	l6	1242-2				0.040			0.040	0.00
26)	l6	1242-3				0.087			0.087	0.00
27)	l6	1242-4				0.035			0.035	0.00
28)	l6	1242-5				0.027			0.027	0.00
29)	l9	1268-1				0.181			0.181	0.00
30)	l9	1268-2				0.167			0.167	0.00
31)	l9	1268-3				0.133			0.133	0.00
32)	l9	1268-4				0.058			0.058	0.00
33)	l9	1268-5				0.392			0.392	0.00
34)	i	1248_1br2nb	----------ISTD----------							
35)	l7	1248-1				0.057			0.057	0.00
36)	l7	1248-2				0.074			0.074	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Alpha Geoscience**	**Lab Number**	**: L2430219**
Project Name	**: HUNTINGTON READY MIXED**	**Project Number**	**: 20116**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21102**
Calibration dates	**: 05/06/24 20:49 05/07/24 15:31**		

Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

	Compound	1	2	3	4	5	6	Avg	%RSD
37) l7	1248-3				0.065			0.065	0.00
38) l7	1248-4				0.058			0.058	0.00
39) l7	1248-5				0.050			0.050	0.00
40) i	3262_1br2nb				----------ISTD----------				
41) l5	1232-1				0.026			0.026	0.00
42) l5	1232-2				0.024			0.024	0.00
43) l5	1232-3				0.050			0.050	0.00
44) l5	1232-4				0.020			0.020	0.00
45) l5	1232-5				0.015			0.015	0.00
46) l8	1262-1				0.070			0.070	0.00
47) l8	1262-2				0.091			0.091	0.00
48) l8	1262-3				0.079			0.079	0.00
49) l8	1262-4				0.160			0.160	0.00
50) l8	1262-5				0.050			0.050	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Alpha Geoscience**	**Lab Number**	**: L2430219**
Project Name	**: HUNTINGTON READY MIXED**	**Project Number**	**: 20116**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21102**
Calibration dates	**: 05/06/24 20:49 05/07/24 15:31**		

Signal #2 Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetra	1.039	1.239	1.160	1.535	1.192	1.225	1.232	13.40
3)	s	Decachlorobip	0.538	0.629	0.572	0.686	0.533	0.523	0.580	11.12
4)	l1	1016-1	0.019	0.023	0.021	0.026	0.019	0.019	0.021	12.94
5)	l1	1016-2	0.041	0.051	0.046	0.056	0.042	0.041	0.046	13.46
6)	l1	1016-3	0.086	0.097	0.088	0.112	0.086	0.085	0.092	11.65
7)	l1	1016-4	0.027	0.038	0.034	0.043	0.032	0.031	0.034	16.38
8)	l1	1016-5	0.025	0.030	0.030	0.036	0.026	0.026	0.029	13.37
9)	l2	1260-1	0.073	0.050	0.049	0.060	0.048	0.043	0.054	19.93
10)	l2	1260-2	0.066	0.063	0.062	0.071	0.057	0.051	0.062	11.13
11)	l2	1260-3	0.041	0.053	0.049	0.057	0.045	0.043	0.048	13.12
12)	l2	1260-4	0.087	0.104	0.094	0.116	0.090	0.087	0.096	11.93
13)	l2	1260-5	0.054	0.072	0.066	0.081	0.063	0.061	0.066	14.19
14)	i	2154_1br2nb	----------ISTD----------							
15)	l3	1221-2				0.015			0.015	0.00
16)	l3	1221-3				0.009			0.009	0.00
17)	l3	1221-4				0.034			0.034	0.00
18)	l4	1254-1				0.046			0.046	0.00
19)	l4	1254-2				0.052			0.052	0.00
20)	l4	1254-3				0.078			0.078	0.00
21)	l4	1254-4				0.048			0.048	0.00
22)	l4	1254-5				0.071			0.071	0.00
23)	i	4268_1br2nb	----------ISTD----------							
24)	l6	1242-1				0.017			0.017	0.00
25)	l6	1242-2				0.038			0.038	0.00
26)	l6	1242-3				0.073			0.073	0.00
27)	l6	1242-4				0.029			0.029	0.00
28)	l6	1242-5				0.022			0.022	0.00
29)	l9	1268-1				0.119			0.119	0.00
30)	l9	1268-2				0.110			0.110	0.00
31)	l9	1268-3				0.090			0.090	0.00
32)	l9	1268-4				0.039			0.039	0.00
33)	l9	1268-5				0.245			0.245	0.00
34)	i	1248_1br2nb	----------ISTD----------							
35)	l7	1248-1				0.052			0.052	0.00
36)	l7	1248-2				0.034			0.034	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Alpha Geoscience**	**Lab Number**	**: L2430219**
Project Name	**: HUNTINGTON READY MIXED**	**Project Number**	**: 20116**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21102**
Calibration dates	**: 05/06/24 20:49 05/07/24 15:31**		

Signal #2 Calibration Files

1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D

6 =P2240506i-12.D

	Compound	1	2	3	4	5	6	Avg	%RSD
37) l7	1248-3				0.043			0.043	0.00
38) l7	1248-4				0.048			0.048	0.00
39) l7	1248-5				0.054			0.054	0.00
40) i	3262_1br2nb				----------ISTD----------				
41) l5	1232-1				0.025			0.025	0.00
42) l5	1232-2				0.025			0.025	0.00
43) l5	1232-3				0.045			0.045	0.00
44) l5	1232-4				0.018			0.018	0.00
45) l5	1232-5				0.013			0.013	0.00
46) l8	1262-1				0.049			0.049	0.00
47) l8	1262-2				0.065			0.065	0.00
48) l8	1262-3				0.059			0.059	0.00
49) l8	1262-4				0.110			0.110	0.00
50) l8	1262-5				0.039			0.039	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240506I\
Method File : P2_pcb_05_06_24_LVI_ugL_ICAL.m
Title : pcb
Last Update : Wed May 08 09:27:21 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetra...	1.008	1.224	1.205	1.670	1.335	1.423	1.311	17.16
3)	s	Decachlorobip...	0.753	0.820	0.780	1.047	0.825	0.856	0.847	12.35
4)	l1	1016-1	0.020	0.023	0.022	0.027	0.021	0.021	0.022	11.84
5)	l1	1016-2	0.038	0.051	0.050	0.061	0.047	0.048	0.049	14.92
6)	l1	1016-3	0.079	0.098	0.096	0.128	0.101	0.105	0.101	15.70
7)	l1	1016-4	0.032	0.040	0.039	0.050	0.039	0.041	0.040	14.48
8)	l1	1016-5	0.039	0.044	0.042	0.055	0.043	0.045	0.045	11.78
9)	l2	1260-1	0.057	0.065	0.061	0.079	0.061	0.064	0.065	11.55
10)	l2	1260-2	0.081	0.096	0.095	0.120	0.094	0.098	0.097	12.77
11)	l2	1260-3	0.050	0.058	0.060	0.074	0.058	0.062	0.060	13.00
12)	l2	1260-4	0.105	0.125	0.123	0.162	0.128	0.134	0.130	14.38
13)	l2	1260-5	0.075	0.086	0.085	0.113	0.089	0.095	0.091	14.02
14)	i	2154_1br2nb	----------ISTD----------							
15)	l3	1221-2				0.015			0.015	0.00
16)	l3	1221-3				0.009			0.009	0.00
17)	l3	1221-4				0.035			0.035	0.00
18)	l4	1254-1				0.050			0.050	0.00
19)	l4	1254-2				0.090			0.090	0.00
20)	l4	1254-3				0.095			0.095	0.00
21)	l4	1254-4				0.067			0.067	0.00
22)	l4	1254-5				0.091			0.091	0.00
23)	i	4268_1br2nb	----------ISTD----------							
24)	l6	1242-1				0.019			0.019	0.00
25)	l6	1242-2				0.040			0.040	0.00
26)	l6	1242-3				0.087			0.087	0.00
27)	l6	1242-4				0.035			0.035	0.00
28)	l6	1242-5				0.027			0.027	0.00
29)	l9	1268-1				0.181			0.181	0.00

Method Path : I:\PCB\Pest2\2024\240506I\
Method File : P2_pcb_05_06_24_LVI_ugL_ICAL.m
Title : pcb
Last Update : Wed May 08 09:27:21 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

	Compound	1	2	3	4	5	6	Avg	%RSD
30) l9	1268-2				0.167			0.167	0.00
31) l9	1268-3				0.133			0.133	0.00
32) l9	1268-4				0.058			0.058	0.00
33) l9	1268-5				0.392			0.392	0.00
34) i	1248_1br2nb	----------ISTD----------							
35) l7	1248-1				0.057			0.057	0.00
36) l7	1248-2				0.074			0.074	0.00
37) l7	1248-3				0.065			0.065	0.00
38) l7	1248-4				0.058			0.058	0.00
39) l7	1248-5				0.050			0.050	0.00
40) i	3262_1br2nb	----------ISTD----------							
41) l5	1232-1				0.026			0.026	0.00
42) l5	1232-2				0.024			0.024	0.00
43) l5	1232-3				0.050			0.050	0.00
44) l5	1232-4				0.020			0.020	0.00
45) l5	1232-5				0.015			0.015	0.00
46) l8	1262-1				0.070			0.070	0.00
47) l8	1262-2				0.091			0.091	0.00
48) l8	1262-3				0.079			0.079	0.00
49) l8	1262-4				0.160			0.160	0.00
50) l8	1262-5				0.050			0.050	0.00

Signal #2 Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

	Compound	1	2	3	4	5	6	Avg	%RSD
1) i	1660_1br2nb	----------ISTD----------							
2) s	2,4,5,6-Tetra...	1.039	1.239	1.160	1.535	1.192	1.225	1.232	13.40

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240506I\
Method File : P2_pcb_05_06_24_LVI_ugL_ICAL.m
Title : pcb
Last Update : Wed May 08 09:27:21 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
3)	s	Decachlorobip...	0.538	0.629	0.572	0.686	0.533	0.523	0.580	11.12
4)	l1	1016-1	0.019	0.023	0.021	0.026	0.019	0.019	0.021	12.94
5)	l1	1016-2	0.041	0.051	0.046	0.056	0.042	0.041	0.046	13.46
6)	l1	1016-3	0.086	0.097	0.088	0.112	0.086	0.085	0.092	11.65
7)	l1	1016-4	0.027	0.038	0.034	0.043	0.032	0.031	0.034	16.38
8)	l1	1016-5	0.025	0.030	0.030	0.036	0.026	0.026	0.029	13.37
9)	l2	1260-1	0.073	0.050	0.049	0.060	0.048	0.043	0.054	19.93
10)	l2	1260-2	0.066	0.063	0.062	0.071	0.057	0.051	0.062	11.13
11)	l2	1260-3	0.041	0.053	0.049	0.057	0.045	0.043	0.048	13.12
12)	l2	1260-4	0.087	0.104	0.094	0.116	0.090	0.087	0.096	11.93
13)	l2	1260-5	0.054	0.072	0.066	0.081	0.063	0.061	0.066	14.19
14)	i	2154_1br2nb	----------ISTD----------							
15)	l3	1221-2				0.015			0.015	0.00
16)	l3	1221-3				0.009			0.009	0.00
17)	l3	1221-4				0.034			0.034	0.00
18)	l4	1254-1				0.046			0.046	0.00
19)	l4	1254-2				0.052			0.052	0.00
20)	l4	1254-3				0.078			0.078	0.00
21)	l4	1254-4				0.048			0.048	0.00
22)	l4	1254-5				0.071			0.071	0.00
23)	i	4268_1br2nb	----------ISTD----------							
24)	l6	1242-1				0.017			0.017	0.00
25)	l6	1242-2				0.038			0.038	0.00
26)	l6	1242-3				0.073			0.073	0.00
27)	l6	1242-4				0.029			0.029	0.00
28)	l6	1242-5				0.022			0.022	0.00
29)	l9	1268-1				0.119			0.119	0.00
30)	l9	1268-2				0.110			0.110	0.00
31)	l9	1268-3				0.090			0.090	0.00
32)	l9	1268-4				0.039			0.039	0.00
33)	l9	1268-5				0.245			0.245	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240506I\
Method File : P2_pcb_05_06_24_LVI_ugL_ICAL.m
Title : pcb
Last Update : Wed May 08 09:27:21 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
34)	i	1248_1br2nb	----------ISTD----------							
35)	l7	1248-1				0.052			0.052	0.00
36)	l7	1248-2				0.034			0.034	0.00
37)	l7	1248-3				0.043			0.043	0.00
38)	l7	1248-4				0.048			0.048	0.00
39)	l7	1248-5				0.054			0.054	0.00
40)	i	3262_1br2nb	----------ISTD----------							
41)	l5	1232-1				0.025			0.025	0.00
42)	l5	1232-2				0.025			0.025	0.00
43)	l5	1232-3				0.045			0.045	0.00
44)	l5	1232-4				0.018			0.018	0.00
45)	l5	1232-5				0.013			0.013	0.00
46)	l8	1262-1				0.049			0.049	0.00
47)	l8	1262-2				0.065			0.065	0.00
48)	l8	1262-3				0.059			0.059	0.00
49)	l8	1262-4				0.110			0.110	0.00
50)	l8	1262-5				0.039			0.039	0.00

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:49 pm
Operator : pest2:rmp
Sample : il44268,42e,,pp 11454
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:41:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:40:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	1.158	1.226	376.1E6	277.5E6	25.000M4	25.000M4
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:49 pm
Operator : pest2:rmp
Sample : il44268,42e,,pp 11454
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:41:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:40:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	1.584	1.803	70147651	48400578	248.875	249.806
25) l6	1242-2	1.726	1.975	151.2E6	105.3E6	248.875	249.806
26) l6	1242-3	1.915	2.176	325.9E6	201.7E6	248.875	249.806
27) l6	1242-4	1.970	2.236	130.4E6	81145843	248.875	249.806
28) l6	1242-5	2.324	2.622	101.4E6	60532235	248.875	249.806
Sum	1242-1			779.0E6	497.1E6	1244.373	1249.031
Average	1242-1					248.875	249.806
29) l9	1268-1	3.452	3.878	679.3E6	329.4E6	248.875	249.806
30) l9	1268-2	3.473	3.904	626.5E6	304.6E6	248.875	249.806
31) l9	1268-3	3.575	4.046	499.6E6	249.5E6	248.875	249.806
32) l9	1268-4	3.763	4.198	219.2E6	108.5E6	248.875	249.806
33) l9	1268-5	3.917	4.384	1476.1E6	679.6E6	248.875	249.806
Sum	1268-1			3500.7E6	1671.5E6	N.D.	N.D. D
Average	1268-1					248.875	249.806
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:49 pm
Operator : pest2:rmp
Sample : il44268,42e,,pp 11454
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:41:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:40:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

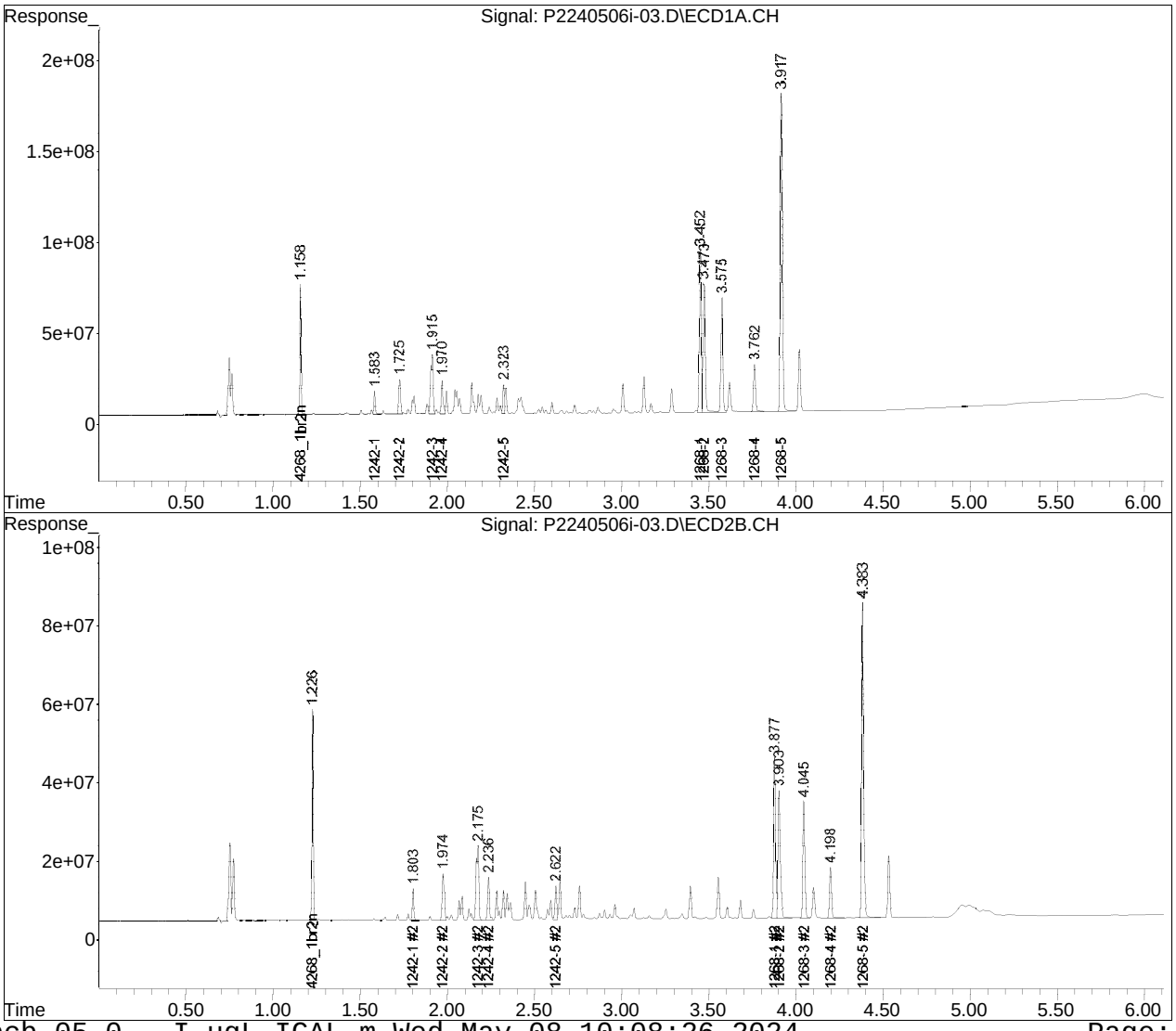
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:49 pm
Operator : pest2:rmp
Sample : il44268,42e,,pp 11454
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:41:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:40:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

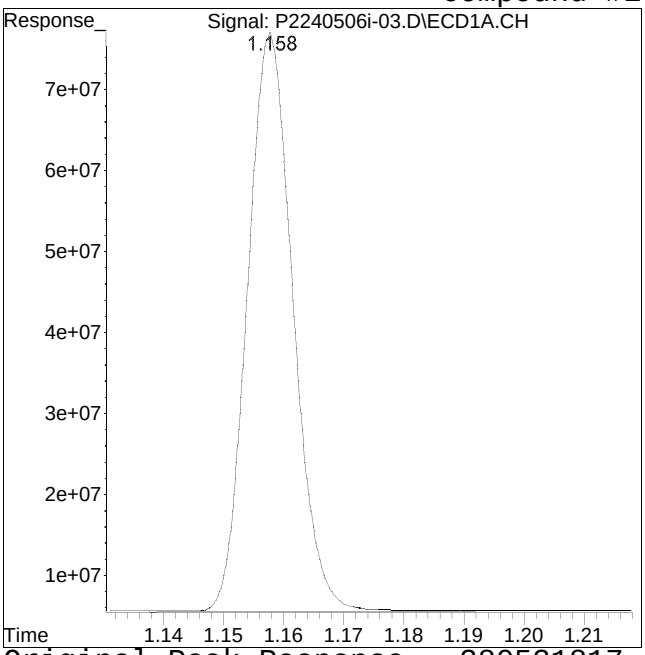
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

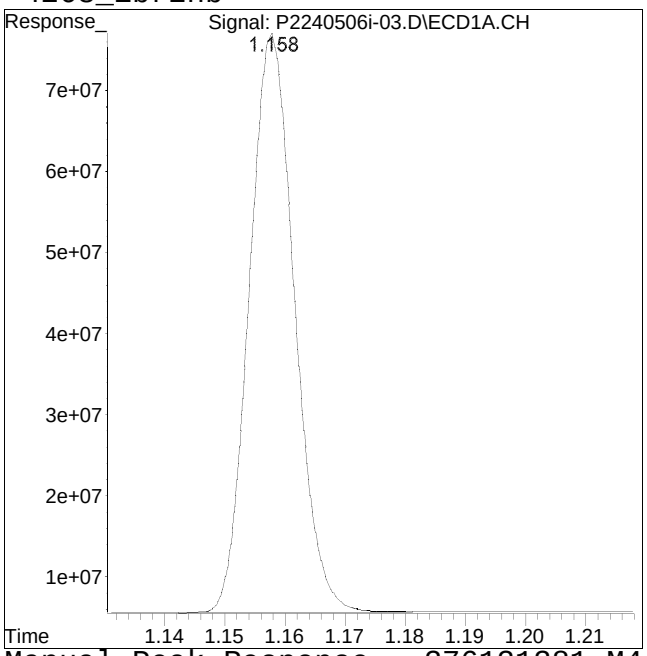


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-03.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 8:49 pm Instrument : Pest 2
Sample : il44268,42e,,pp 11454 Quant Date : 5/7/2024 3:41 pm

Compound #23: 4268_1br2nb



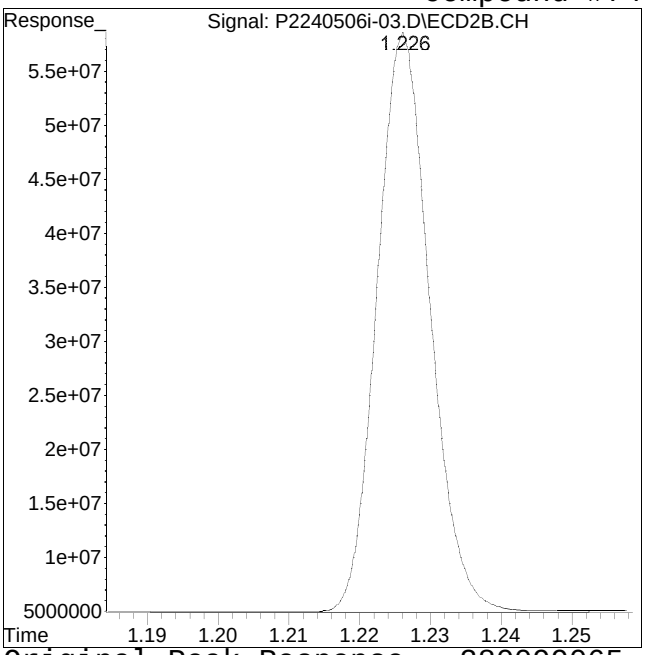


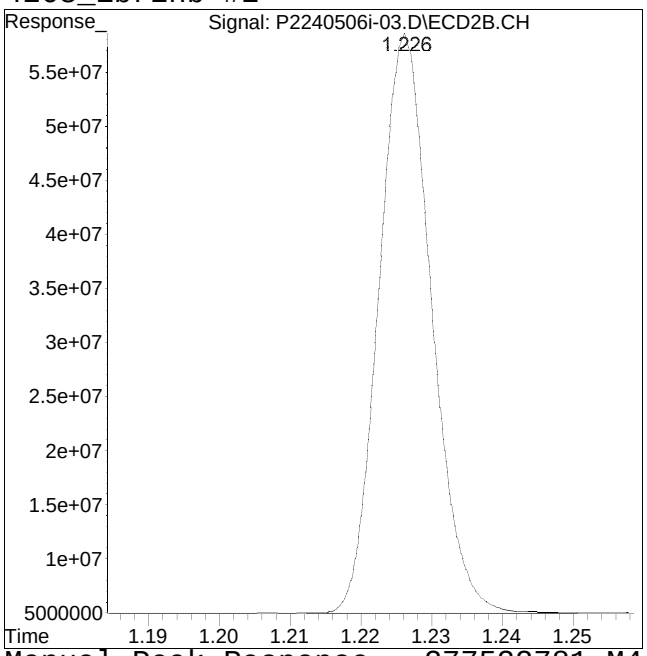
Original Peak Response = 380531817 Manual Peak Response = 376131381 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-03.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 8:49 pm Instrument : Pest 2
Sample : il44268,42e,,pp 11454 Quant Date : 5/7/2024 3:41 pm

Compound #74: 4268_1br2nb #2





Original Peak Response = 280099065 Manual Peak Response = 277522781 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:59 pm
Operator : pest2:rmp
Sample : il43262,42e,,pp 11457
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:43:19 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:43:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	1.159	1.227	378.8E6	271.6E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:59 pm
Operator : pest2:rmp
Sample : il43262,42e,,pp 11457
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:43:19 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:43:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:59 pm
Operator : pest2:rmp
Sample : il43262,42e,,pp 11457
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:43:19 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:43:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound		RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	1.584	1.804	98916572	67532754	250.000	250.000
42) l5	1232-2	1.726	1.975	90910466	67081964	250.000	250.000
43) l5	1232-3	1.915	2.177	190.1E6	121.6E6	250.000	250.000
44) l5	1232-4	1.971	2.237	77287496	49144931	250.000	250.000
45) l5	1232-5	2.324	2.624	56698612	35277580	250.000	250.000
Sum	1232-1			514.0E6	340.6E6	1250.000	1250.000
Average	1232-1					250.000	250.000
46) l8	1262-1	2.816	3.160	266.8E6	132.0E6	250.000	250.000
47) l8	1262-2	3.008	3.394	343.3E6	176.7E6	250.000	250.000
48) l8	1262-3	3.131	3.553	300.5E6	160.2E6	250.000	250.000
49) l8	1262-4	3.287	3.682	606.5E6	298.5E6	249.567M3	250.000
50) l8	1262-5	3.762	4.200	188.6E6	105.4E6	250.000	250.000
Sum	1262-1			1705.8E6	872.8E6	1249.567	1250.000
Average	1262-1					249.913	250.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			1705.8E6	872.8E6	1249.567	1250.000
Average	1262-1					249.913	250.000

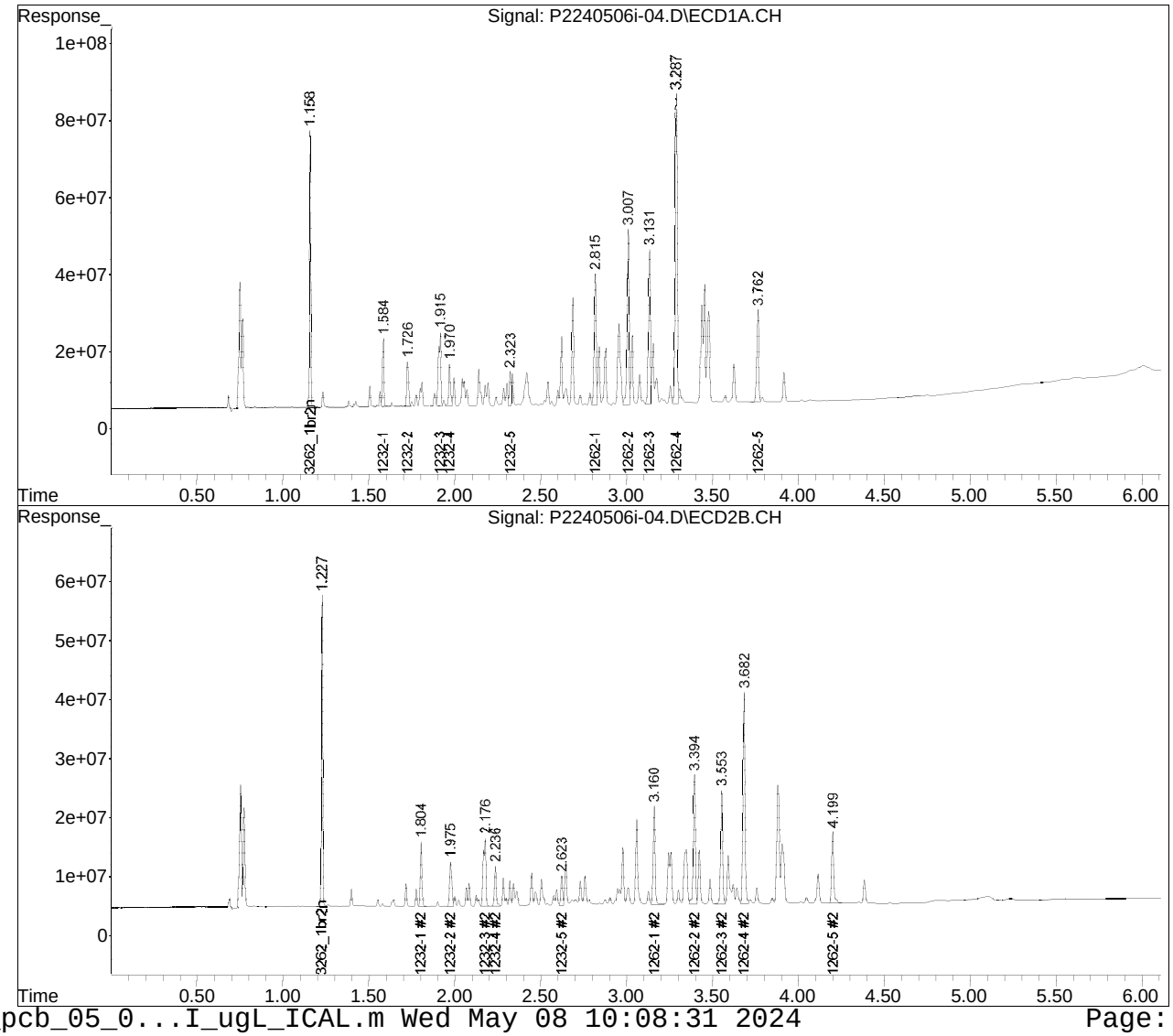
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:59 pm
Operator : pest2:rmp
Sample : il43262,42e,,pp 11457
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:43:19 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:43:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

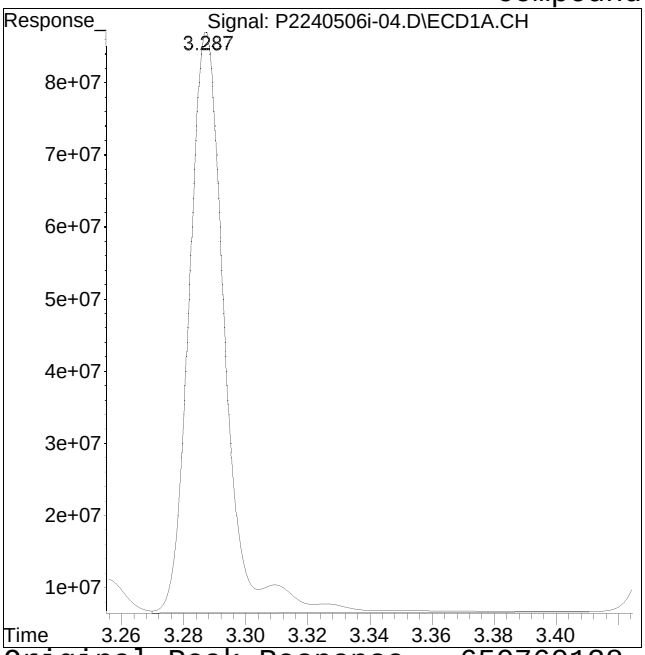
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

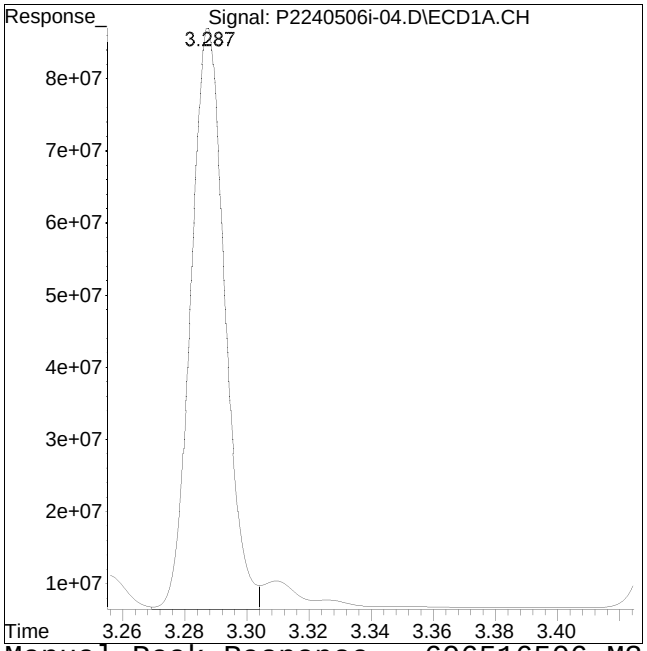


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-04.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 8:59 pm Instrument : Pest 2
Sample : il43262,42e,,pp 11457 Quant Date : 5/7/2024 3:43 pm

Compound #49: 1262-4





Original Peak Response = 650760128 Manual Peak Response = 606516506 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:08 pm
Operator : pest2:rmp
Sample : il41248,42e,,pp 11452
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:34:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:34:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	1.159	1.228	395.7E6	290.0E6	25.000	25.000
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:08 pm
Operator : pest2:rmp
Sample : il41248,42e,,pp 11452
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:34:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:34:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	1.907	2.167	225.8E6	150.7E6	250.000	245.071M1
36) l7	1248-2	2.045	2.322	291.3E6	99774187	248.952M1	250.000
37) l7	1248-3	2.141	2.448	257.5E6	125.4E6	250.000	250.000
38) l7	1248-4	2.324	2.624	229.7E6	138.0E6	250.000	250.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:08 pm
Operator : pest2:rmp
Sample : il41248,42e,,pp 11452
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:34:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:34:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound		RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	2.336	2.647	199.1E6	157.4E6	260.778	250.000
Sum	1248-1			1203.4E6	671.4E6	N.D.	N.D. D
Average	1248-1					251.946	249.014
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

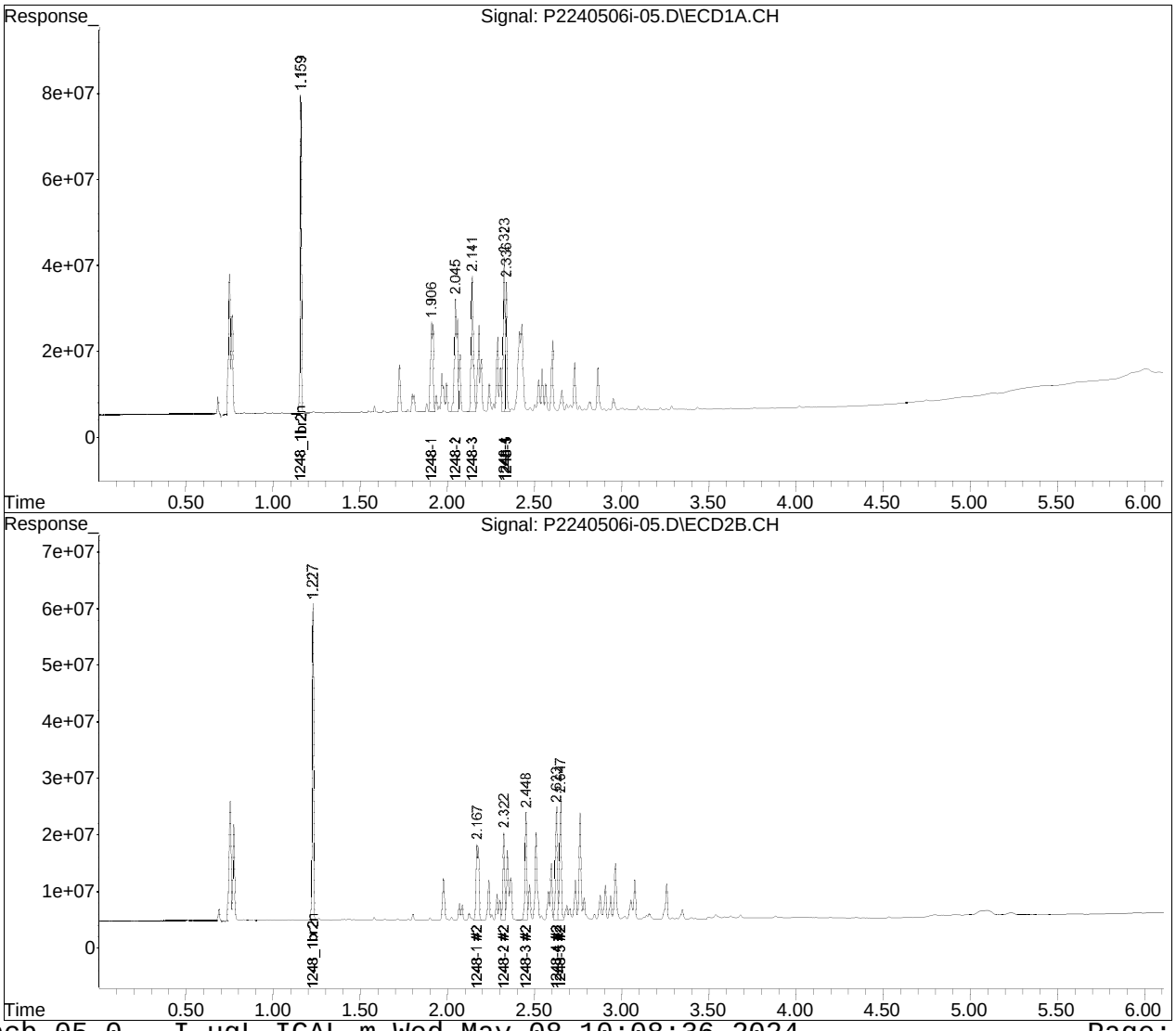
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:08 pm
Operator : pest2:rmp
Sample : il41248,42e,,pp 11452
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:34:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:34:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

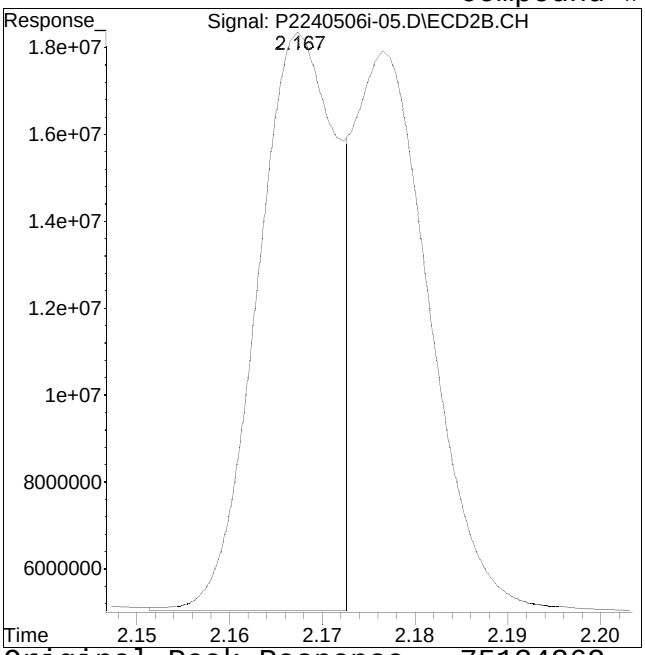
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

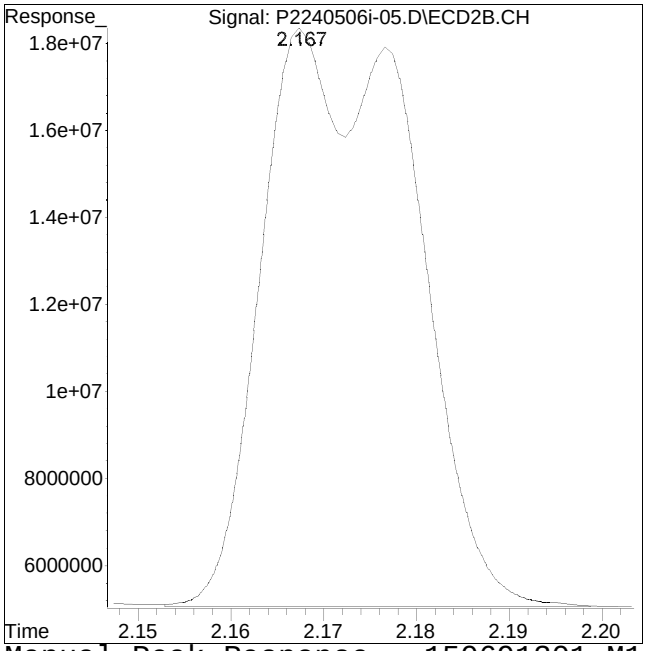


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-05.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:08 pm Instrument : Pest 2
Sample : il41248,42e,,pp 11452 Quant Date : 5/7/2024 4:34 pm

Compound #86: 1248-1 #2



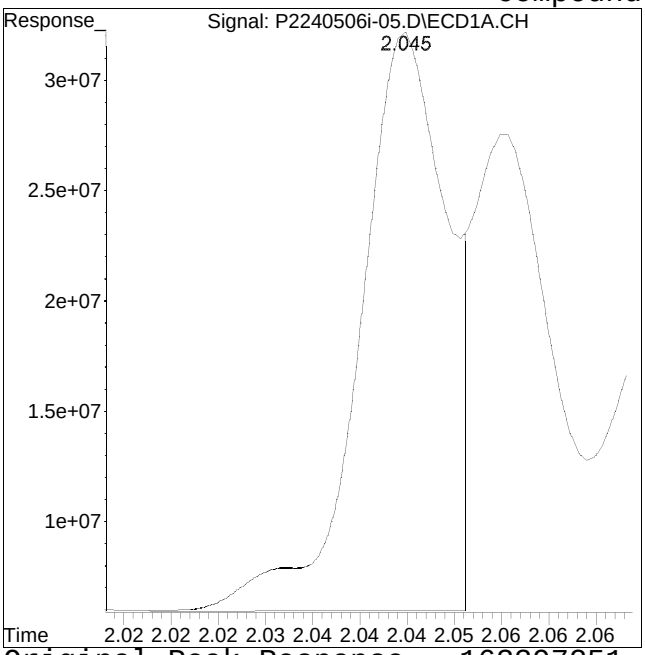


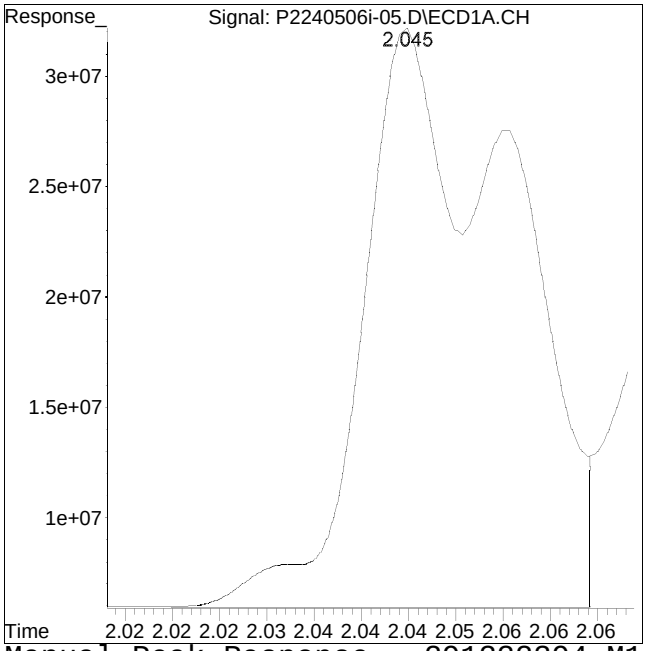
Original Peak Response = 75134262 Manual Peak Response = 150691301 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-05.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:08 pm Instrument : Pest 2
Sample : il41248,42e,,pp 11452 Quant Date : 5/7/2024 4:34 pm

Compound #36: 1248-2





Original Peak Response = 163397251 Manual Peak Response = 291332394 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:18 pm
Operator : pest2:rmp
Sample : il42154,42e,,pp 11449
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:37:32 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	1.159	1.228	368.2E6	270.8E6	25.000M4	25.000M4
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 20.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 20.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	1.508	1.719	55425335	41450915	258.591	253.137
16) l3	1221-3	1.567	1.779	34088987	25570999	258.782M3	253.137

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:18 pm
Operator : pest2:rmp
Sample : il42154,42e,,pp 11449
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:37:32 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-4	1.584	1.805	133.6E6	92463612	259.046M3	253.137
Sum	1221-2			223.1E6	159.5E6	776.419	759.412
Average	1221-2					258.806	253.137
18) l4	1254-1	2.305	2.646	189.9E6	126.2E6	256.824M3	253.137
19) l4	1254-2	2.418	2.733	334.3E6	143.9E6	253.515M3	253.137
20) l4	1254-3	2.602	2.963	362.1E6	212.5E6	258.591	253.137
21) l4	1254-4	2.732	3.074	253.4E6	140.0E6	258.591	269.685
22) l4	1254-5	2.954	3.350	347.6E6	193.6E6	258.591	253.137
Sum	1254-1			1487.3E6	816.2E6	N.D.	N.D. D
Average	1254-1					257.222	256.447
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:18 pm
Operator : pest2:rmp
Sample : il42154,42e,,pp 11449
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:37:32 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

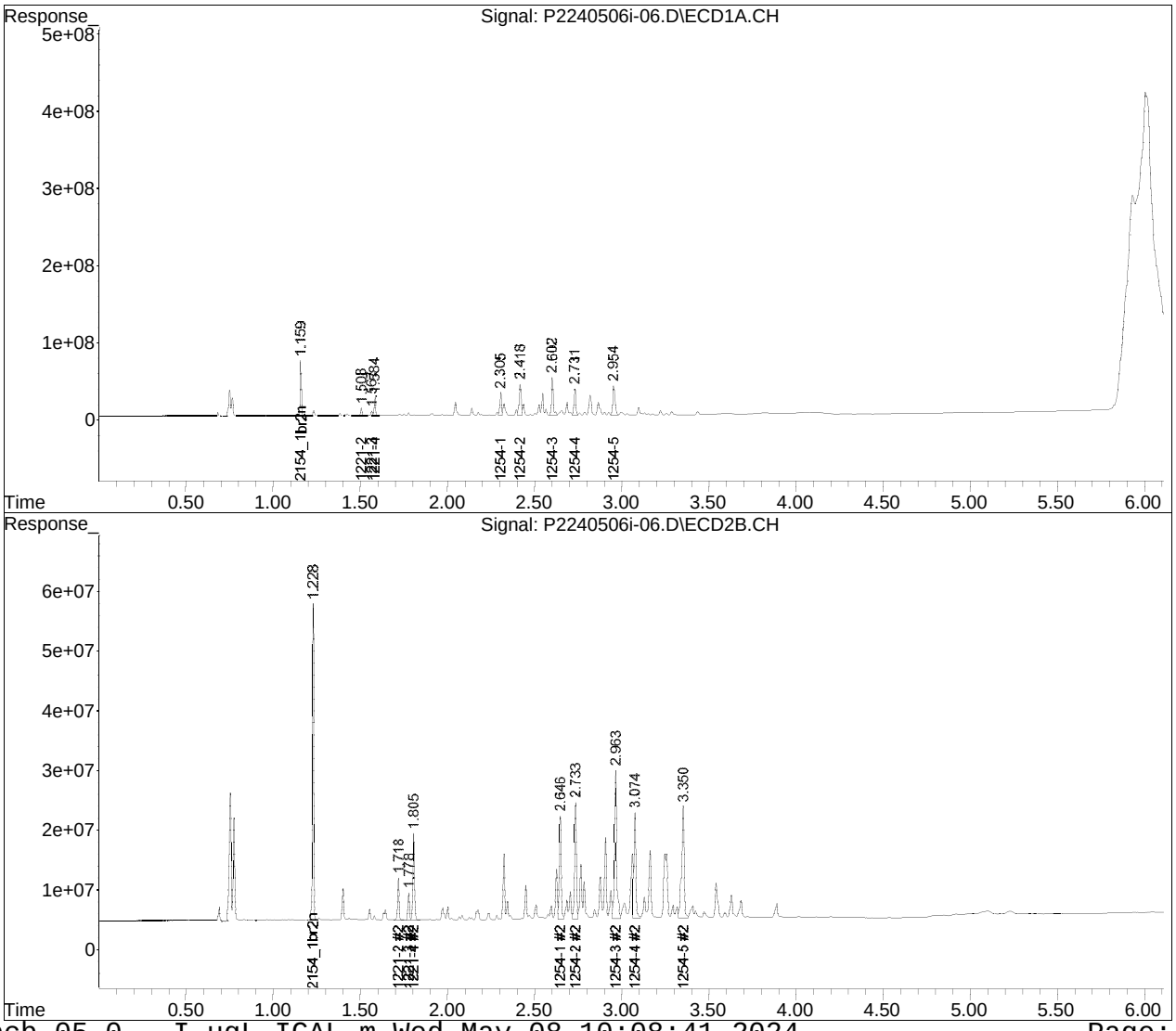
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:18 pm
Operator : pest2:rmp
Sample : il42154,42e,,pp 11449
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:37:32 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

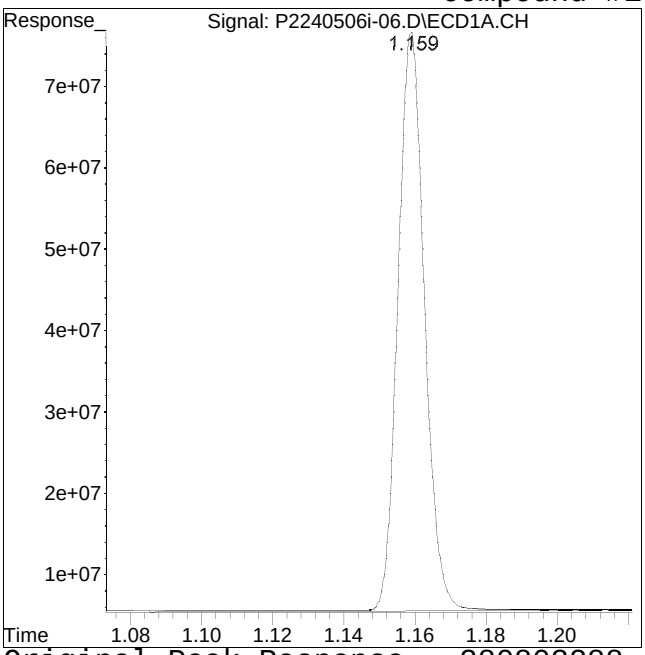
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

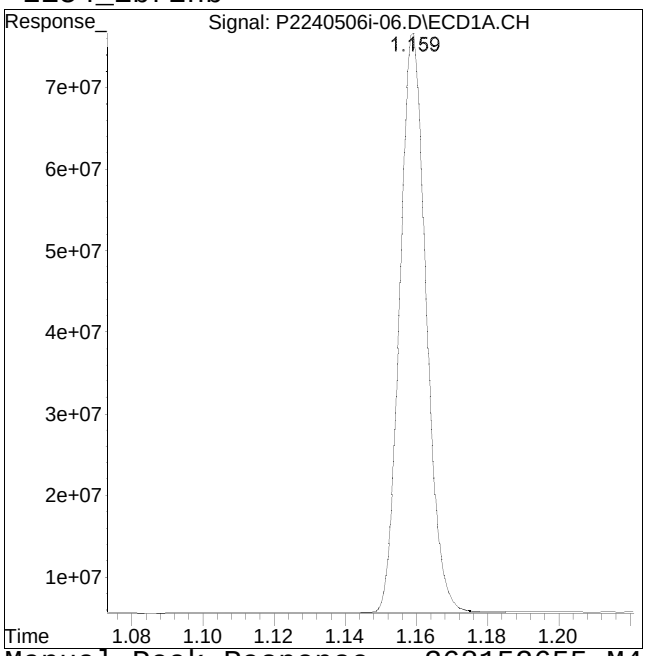


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-06.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:18 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 5/7/2024 4:37 pm

Compound #14: 2154_1br2nb



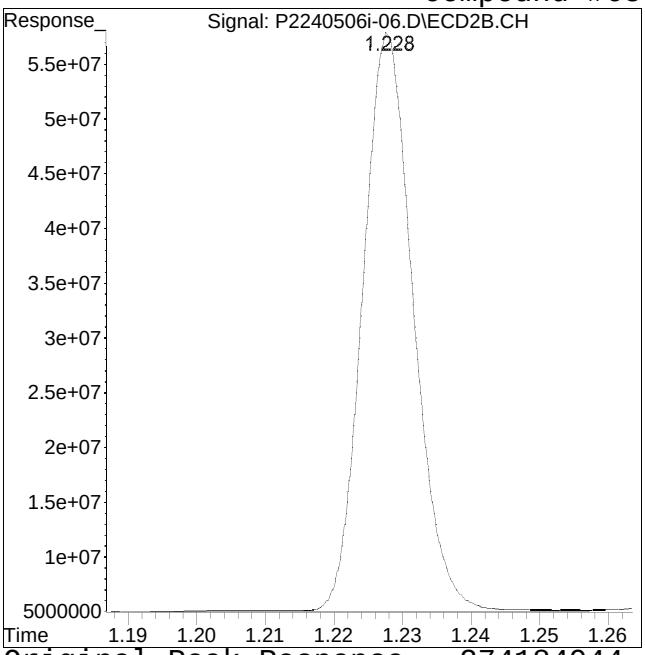


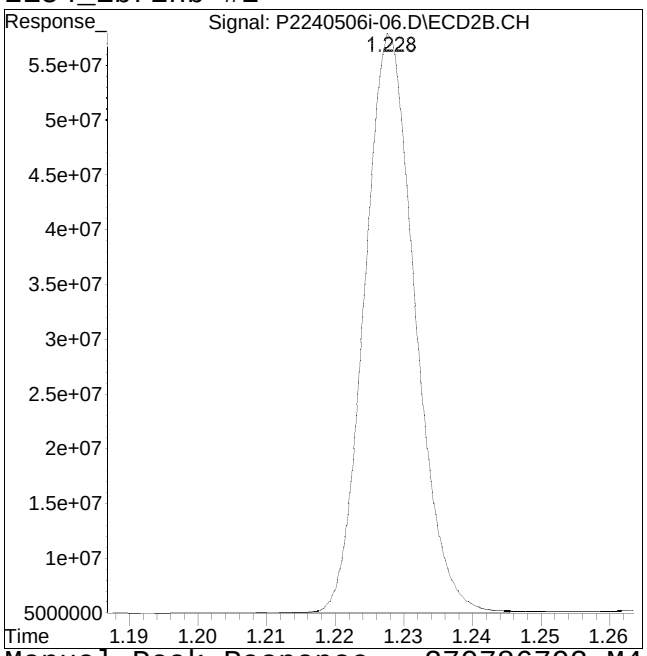
Original Peak Response = 380803288 Manual Peak Response = 368152655 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-06.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:18 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 5/7/2024 4:37 pm

Compound #65: 2154_1br2nb #2



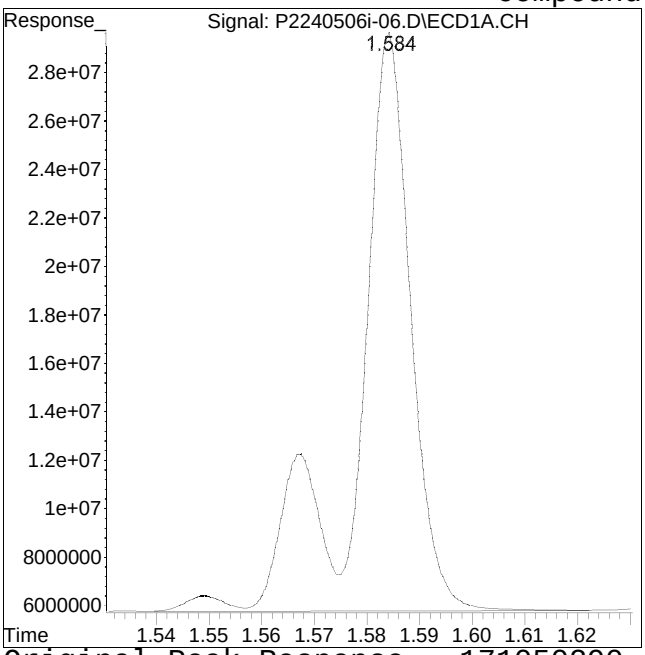


Original Peak Response = 274184944 Manual Peak Response = 270786792 M4
M4 = Poor automated baseline construction.

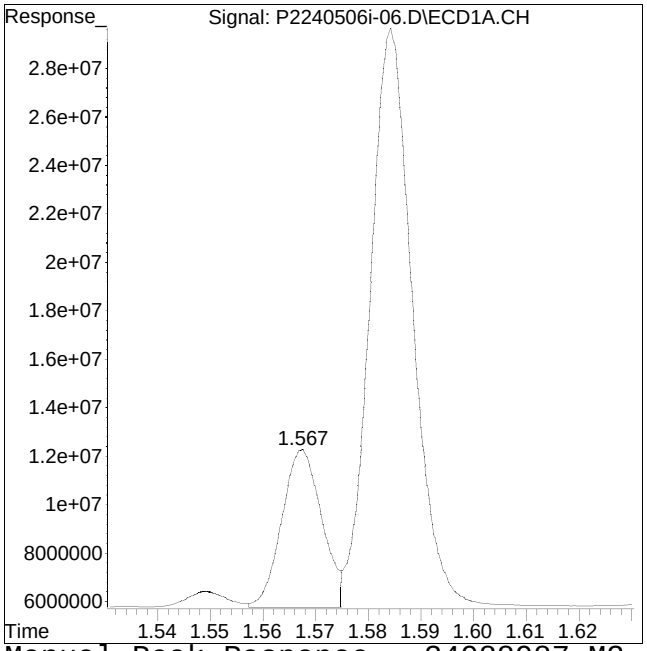
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-06.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:18 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 5/7/2024 4:37 pm

Compound #16: 1221-3



Original Peak Response = 171050290



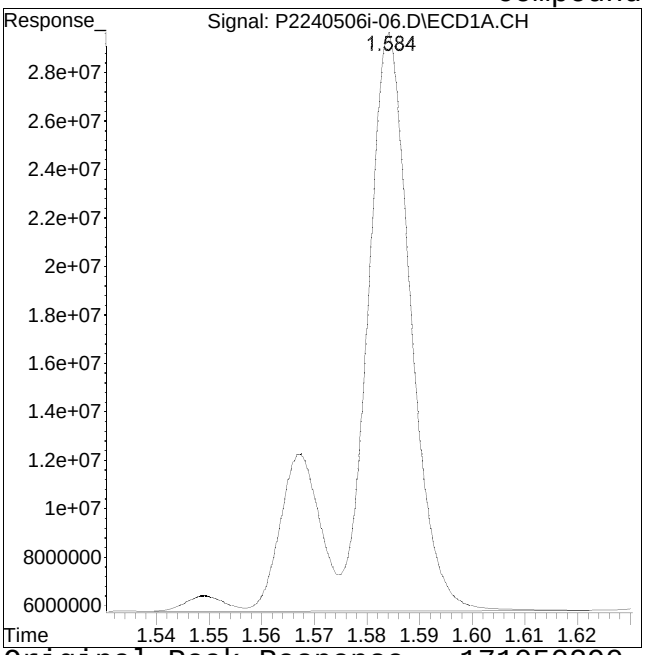
Manual Peak Response = 34088987 M3

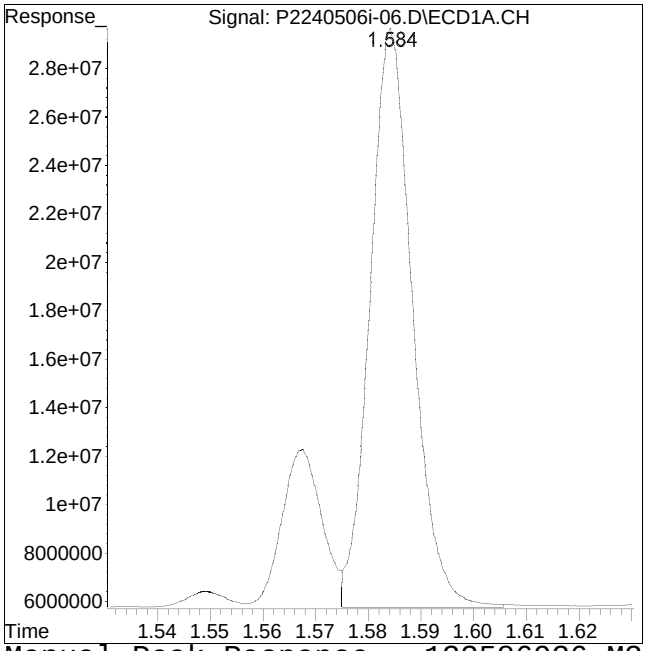
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-06.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:18 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 5/7/2024 4:37 pm

Compound #17: 1221-4



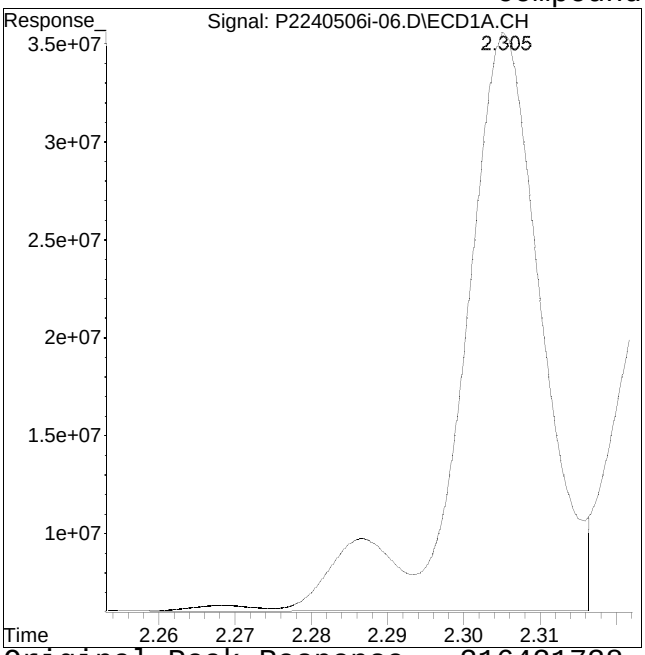


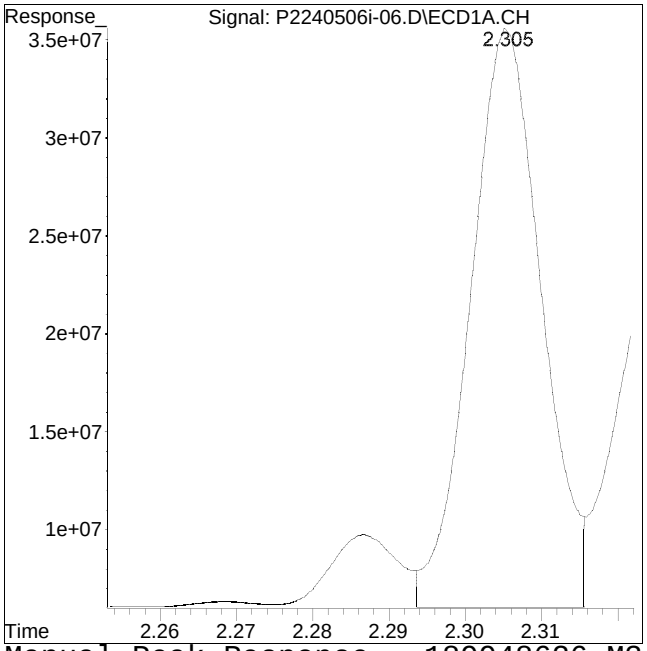
Original Peak Response = 171050290 Manual Peak Response = 133586936 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-06.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:18 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 5/7/2024 4:37 pm

Compound #18: 1254-1



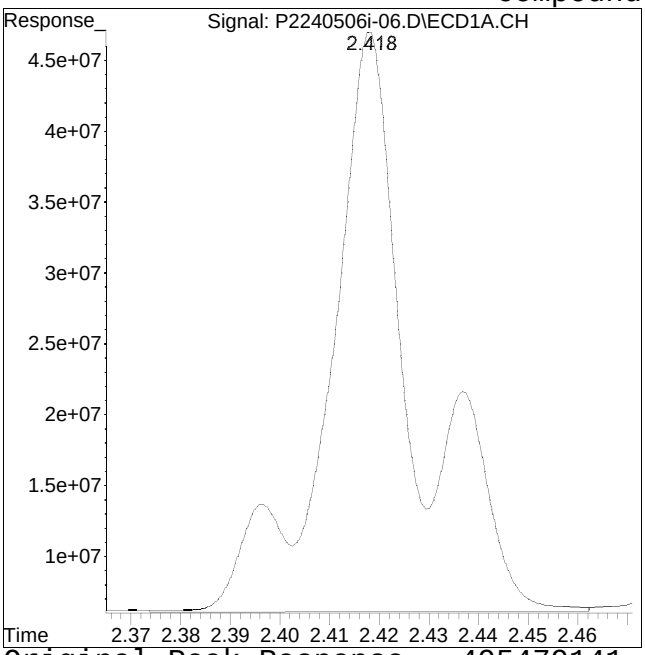


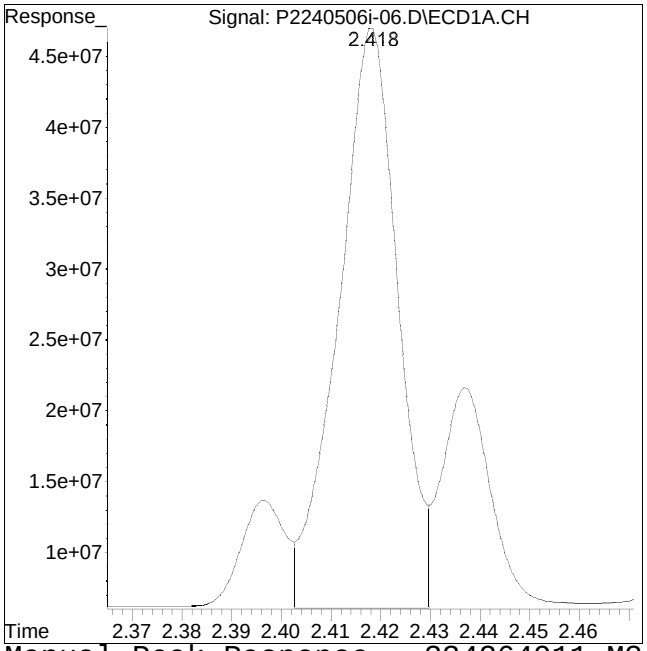
Original Peak Response = 216421738 Manual Peak Response = 189948626 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-06.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:18 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 5/7/2024 4:37 pm

Compound #19: 1254-2





Original Peak Response = 495479141 Manual Peak Response = 334264911 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:36 pm
Operator : pest2:rmp
Sample : il21660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.160	1.229	427.9E6	307.5E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.446	1.604	67030846	48767818	2.923	3.001
	Spiked Amount 20.000	Range 30 - 150		Recovery =		14.62%#	15.00%#
3) s	Decachlorobi	4.021	4.535	89819738	49489705	1.018M4	6.253M4
	Spiked Amount 20.000	Range 30 - 150		Recovery =		5.09%#	31.26%
	Target Compounds						
4) l1	1016-1	1.586	1.806	19864562	14014682	44.922	49.629
5) l1	1016-2	1.727	1.978	44044956	31223629	51.763M1	49.840
6) l1	1016-3	1.917	2.179	83622291	59884413	46.126	47.891
7) l1	1016-4	1.972	2.239	34314487	23349042	46.249M3	46.682
8) l1	1016-5	2.143	2.450	37922778	18676230	46.023	41.140M4
	Sum 1016-1			219.8E6	147.1E6	235.083	235.181
	Average 1016-1					47.017	47.036
9) l2	1260-1	2.686	3.060	55225089	31043678	40.986M4	35.272M4
10) l2	1260-2	2.817	3.162	82457614	38768910	1.109M4	36.451M4
11) l2	1260-3	3.133	3.555	49330916	32395410	38.777M4	37.384
12) l2	1260-4	3.288	3.684	106.8E6	63773305	2.871M4	49.188

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:36 pm
Operator : pest2:rmp
Sample : il21660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13) l2	1260-5	3.437	3.886	73865657	44351592	4.149M1	48.488
Sum	1260-1			367.6E6	210.3E6	N.D.	N.D. D
Average	1260-1					17.578	41.356 D
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:36 pm
Operator : pest2:rmp
Sample : il21660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:36 pm
Operator : pest2:rmp
Sample : il21660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

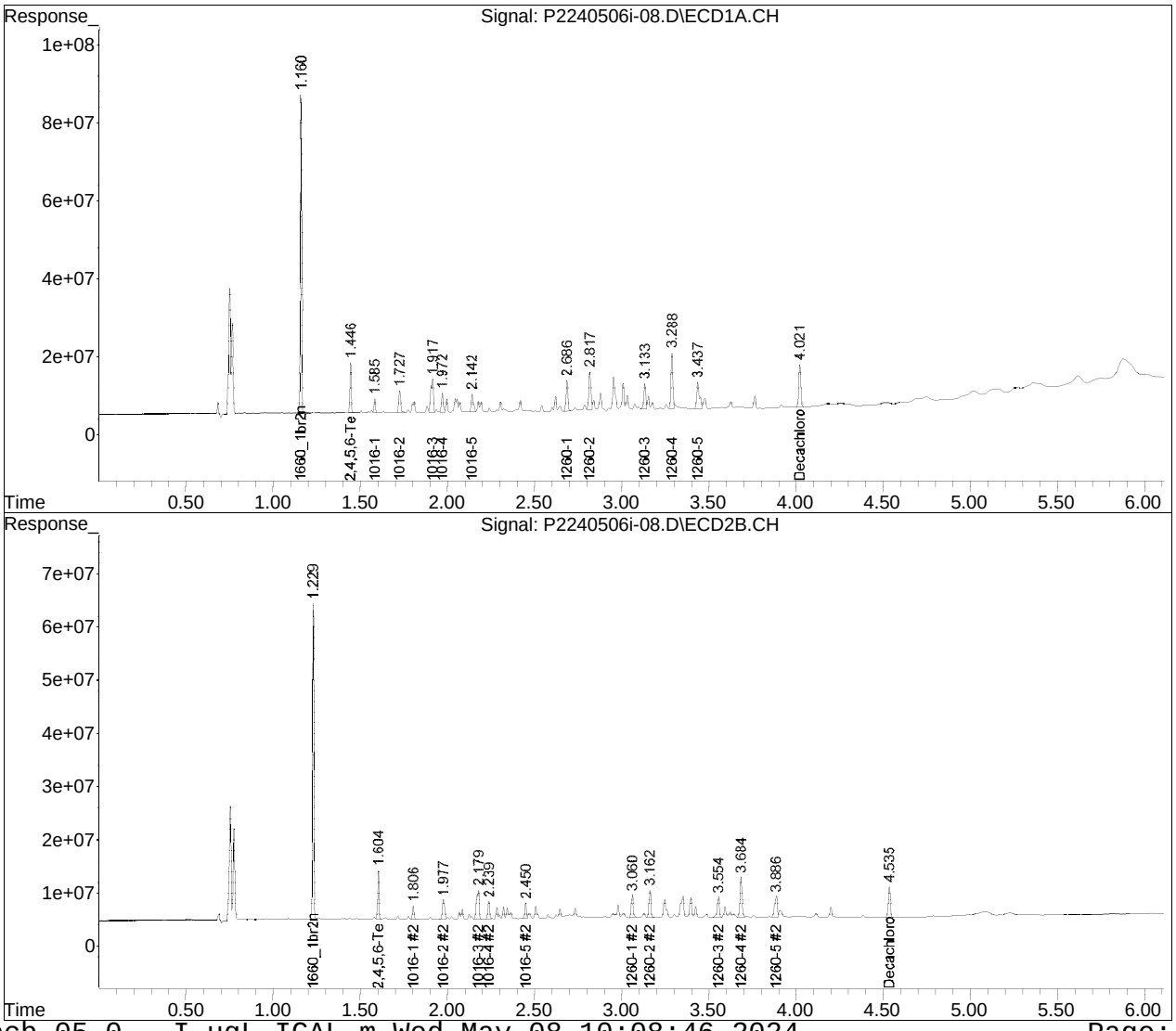
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:36 pm
Operator : pest2:rmp
Sample : il21660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

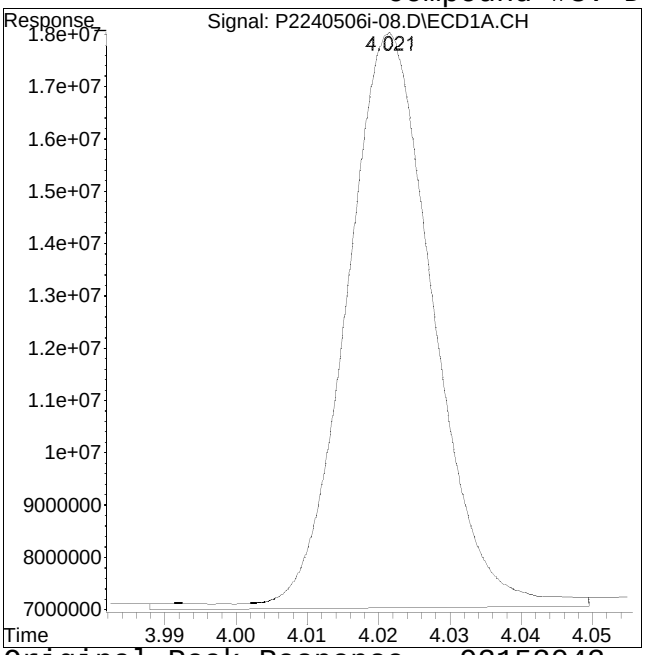
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

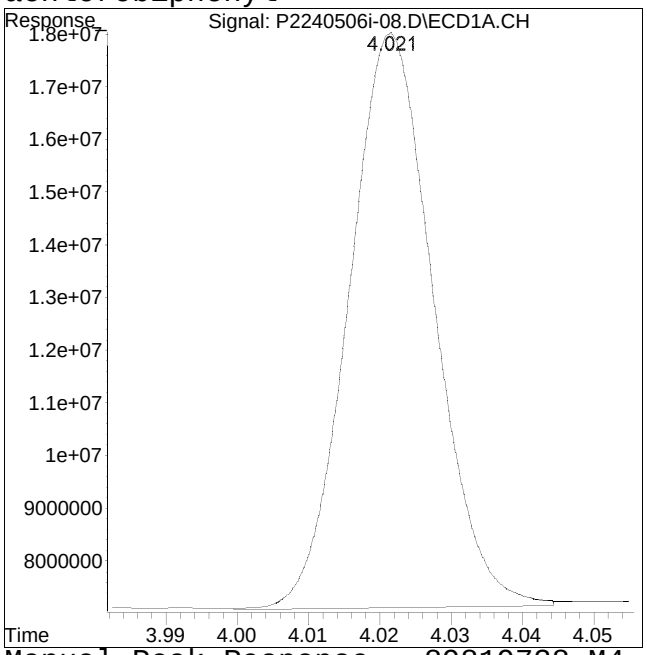


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #3: Decachlorobiphenyl



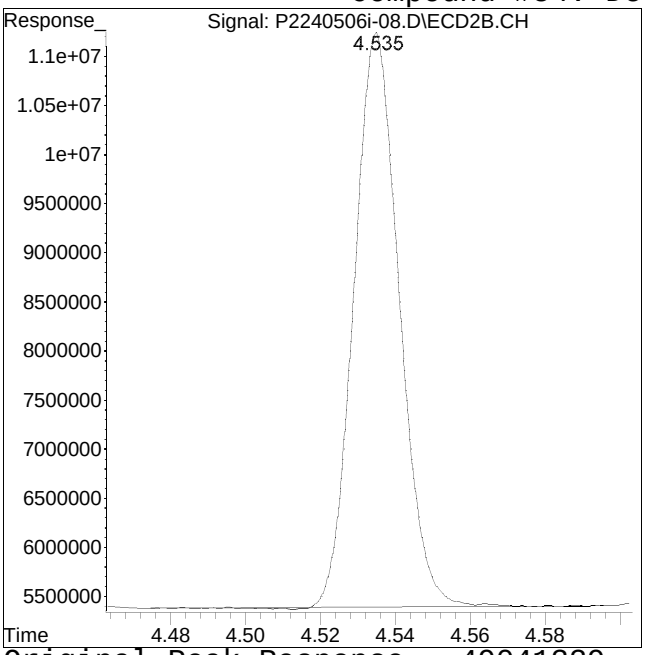


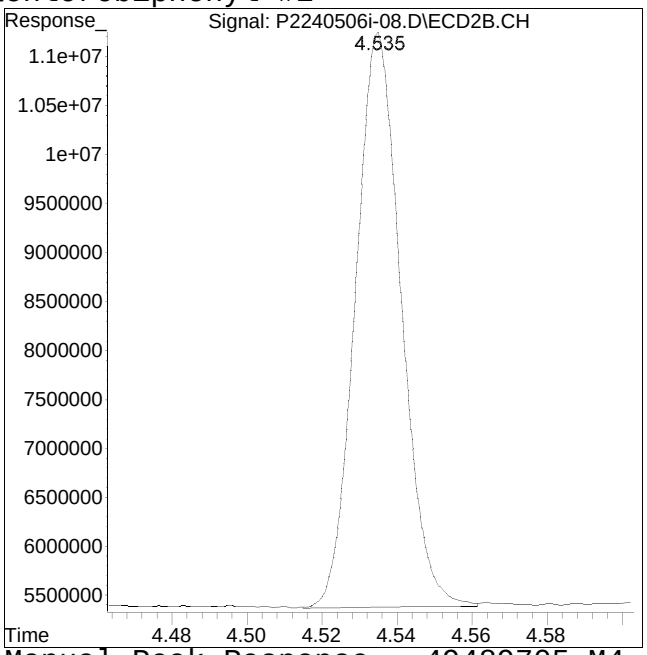
Original Peak Response = 93152043 Manual Peak Response = 89819738 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #54: Decachlorobiphenyl #2



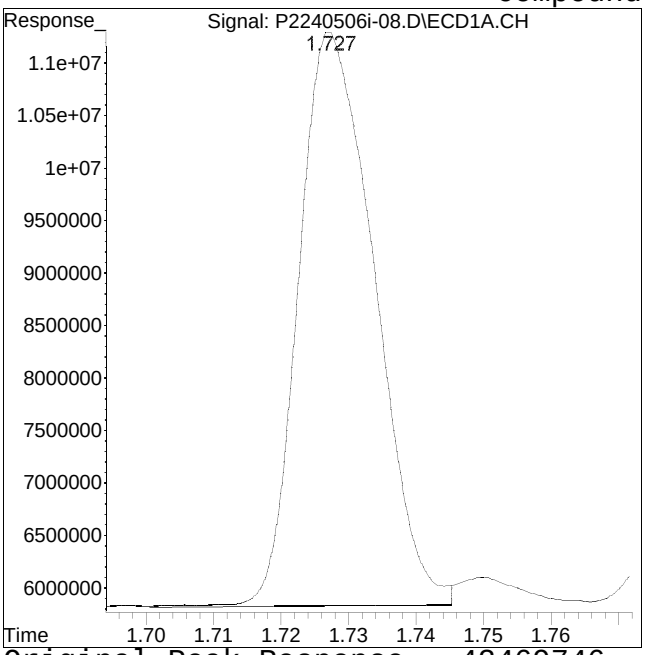


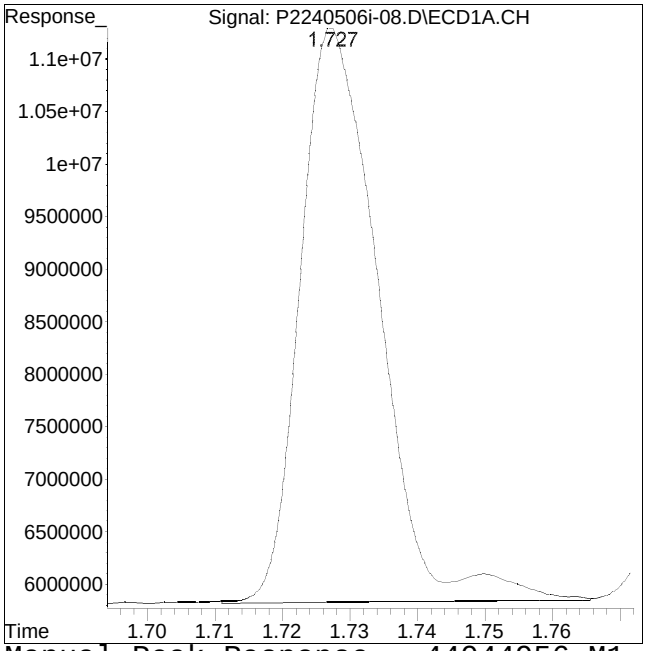
Original Peak Response = 49041339 Manual Peak Response = 49489705 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #5: 1016-2



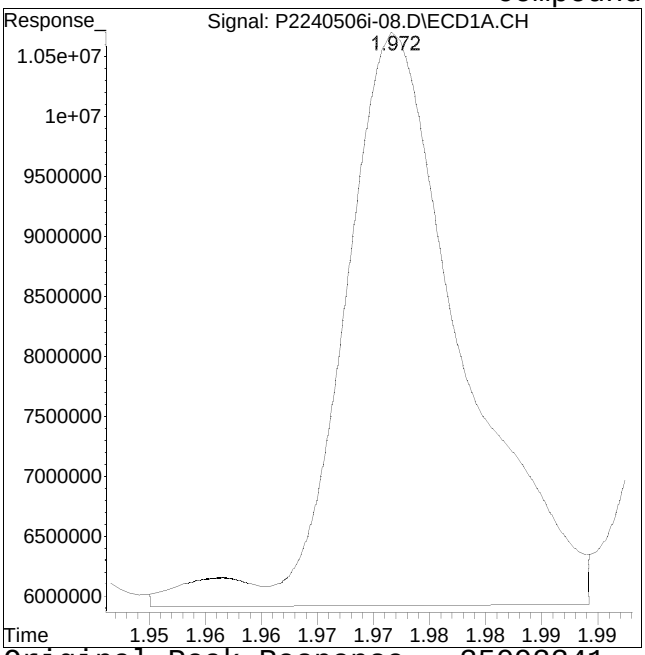


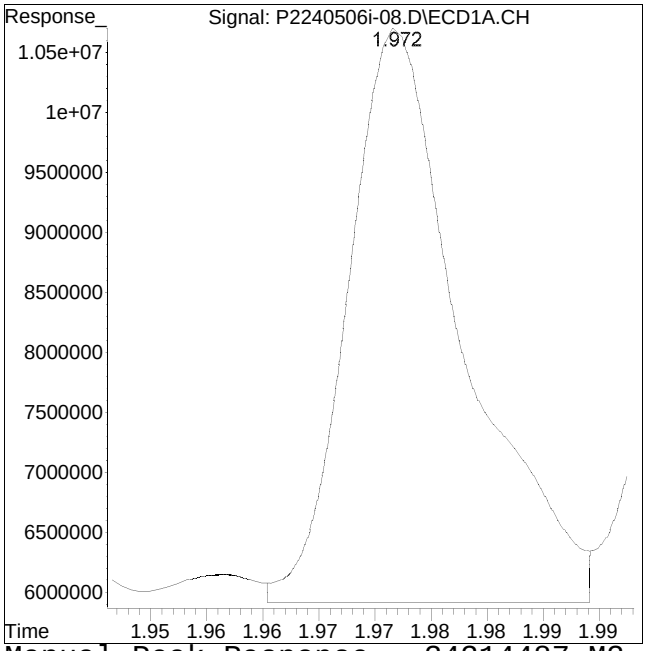
Original Peak Response = 42469746 Manual Peak Response = 44044956 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #7: 1016-4



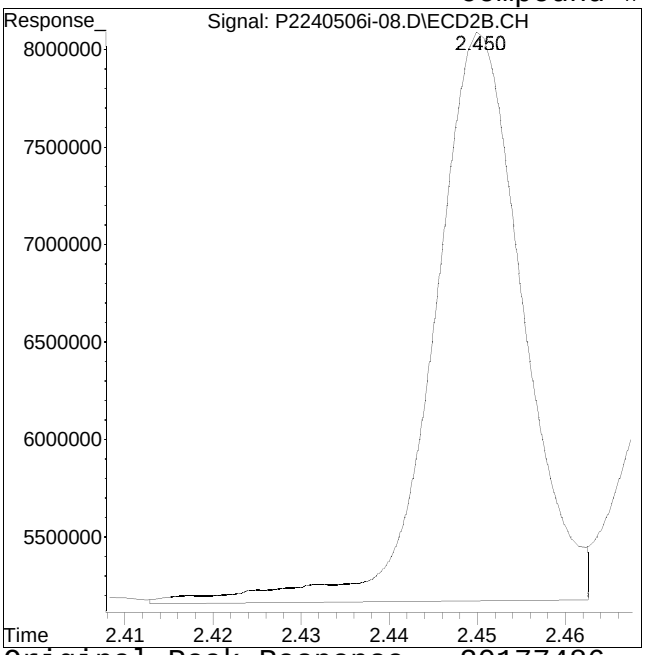


Original Peak Response = 35093341 Manual Peak Response = 34314487 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

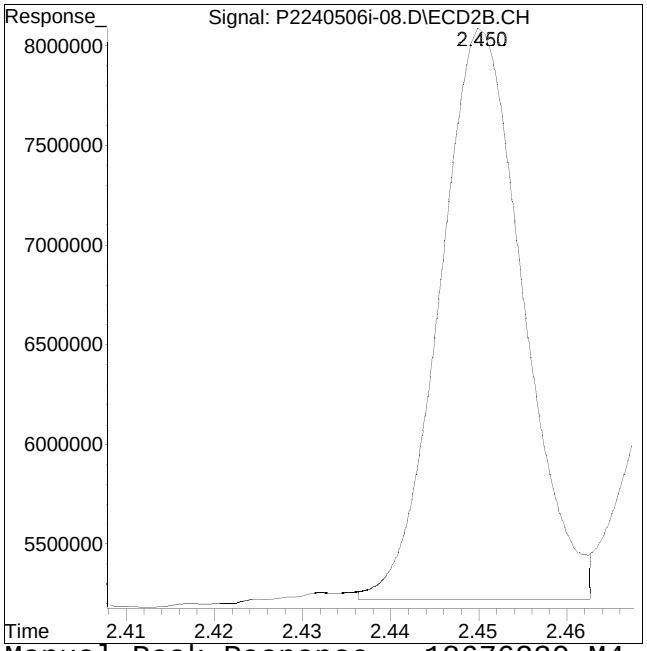
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #59: 1016-5 #2



Original Peak Response = 20177486



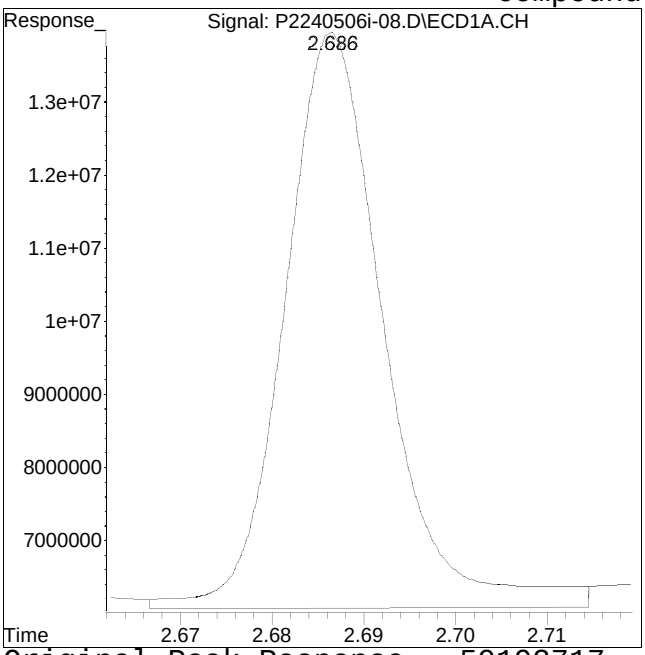
Manual Peak Response = 18676230 M4

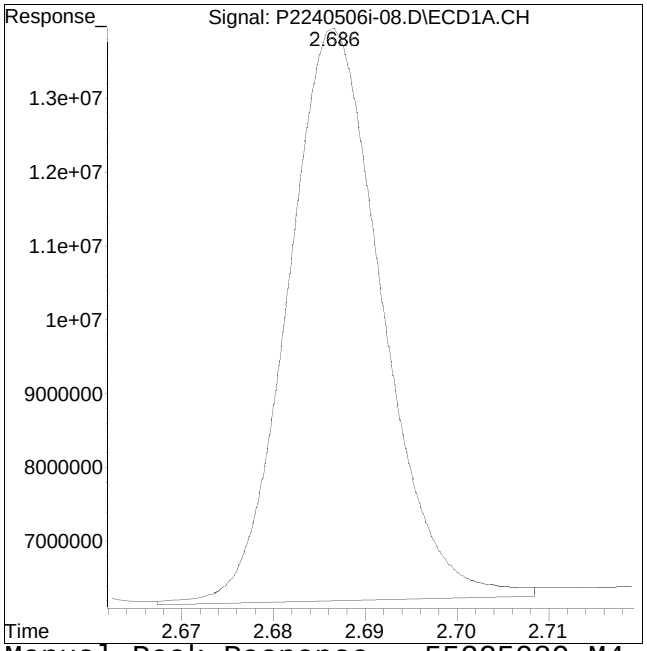
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #9: 1260-1



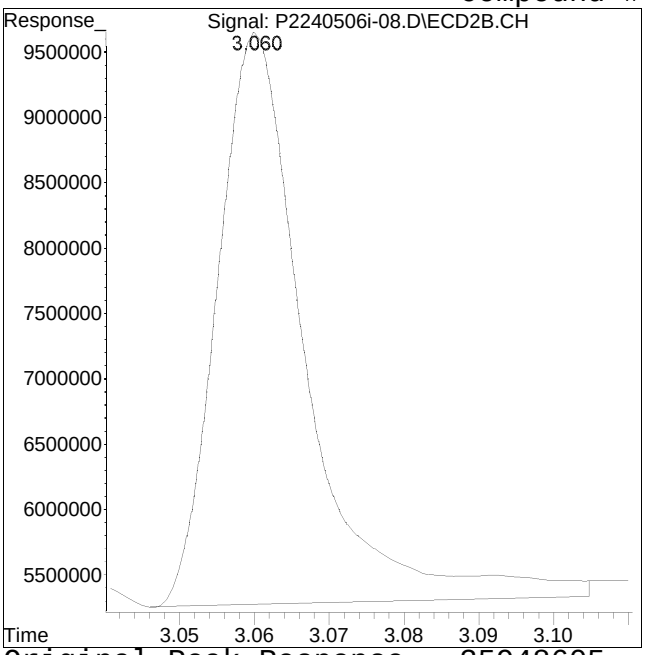


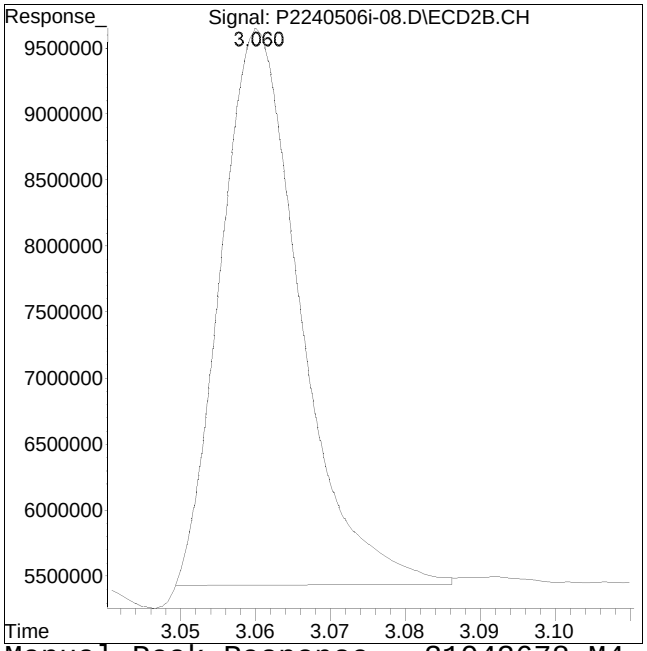
Original Peak Response = 59192717 Manual Peak Response = 55225089 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #60: 1260-1 #2



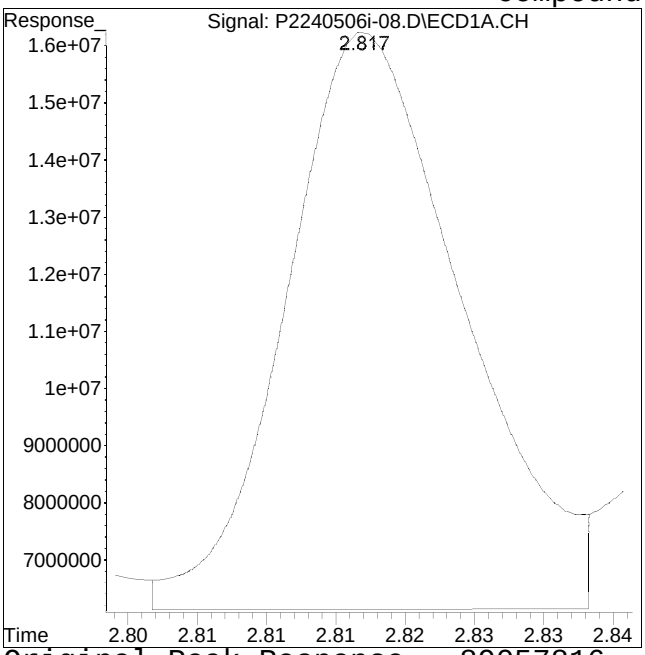


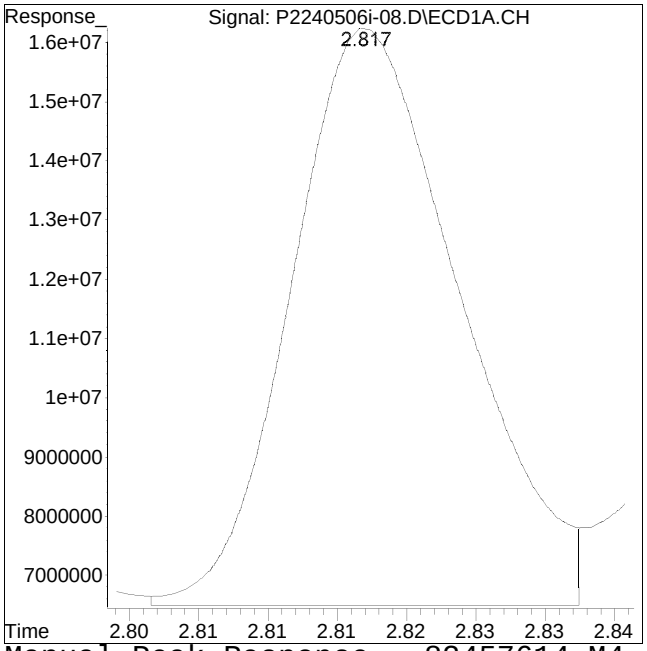
Original Peak Response = 35948605 Manual Peak Response = 31043678 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #10: 1260-2



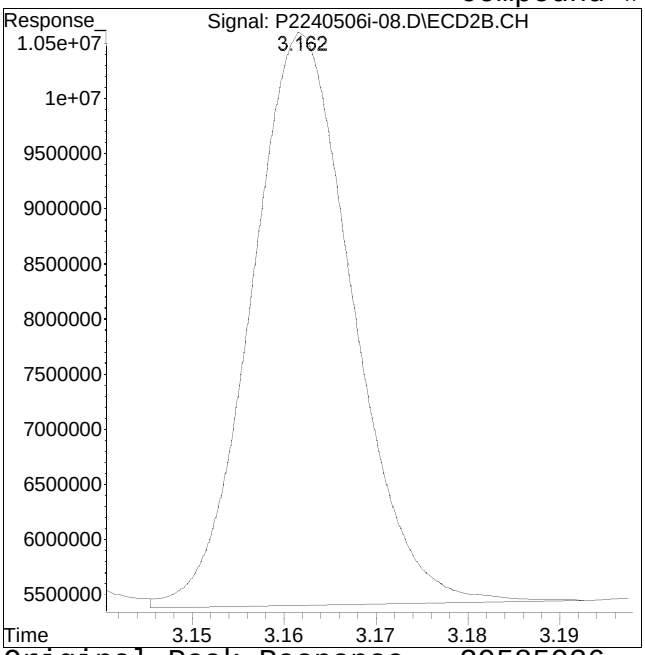


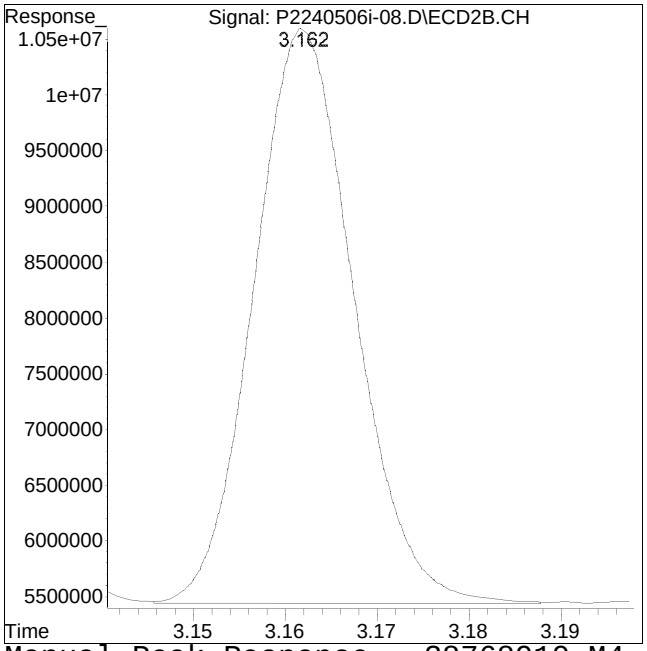
Original Peak Response = 89057816 Manual Peak Response = 82457614 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #61: 1260-2 #2



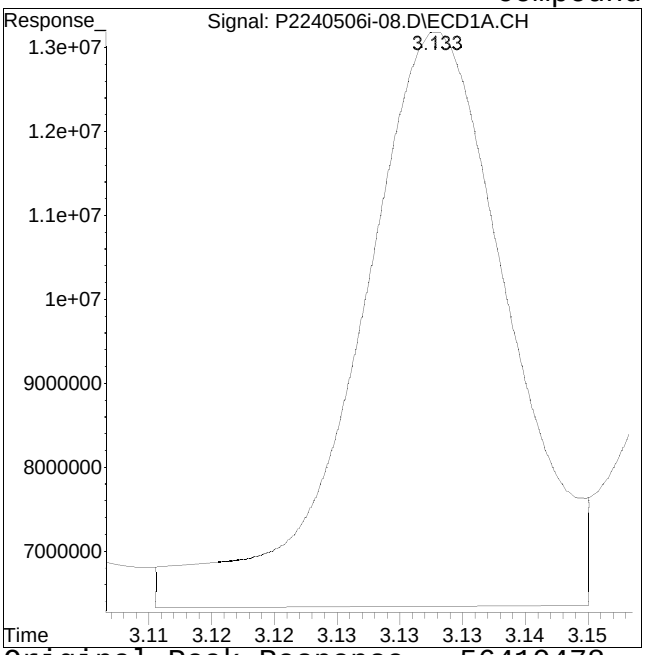


Original Peak Response = 39585936 Manual Peak Response = 38768910 M4
M4 = Poor automated baseline construction.

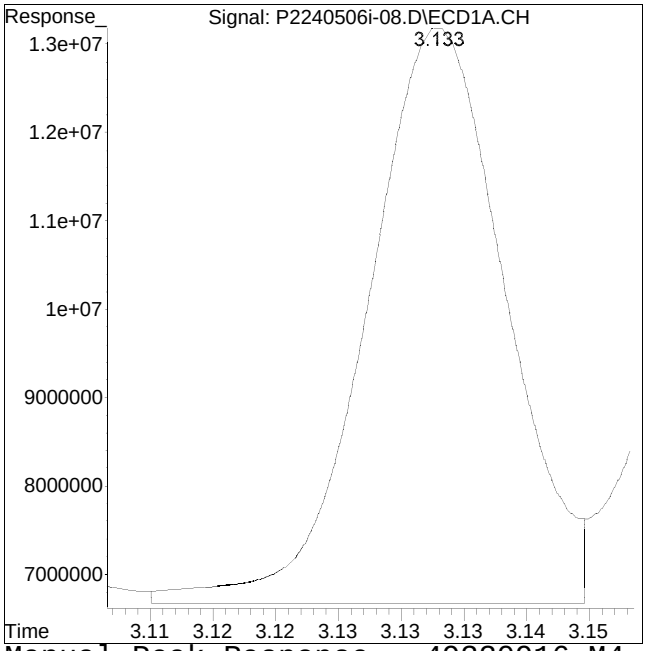
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #11: 1260-3



Original Peak Response = 56410478



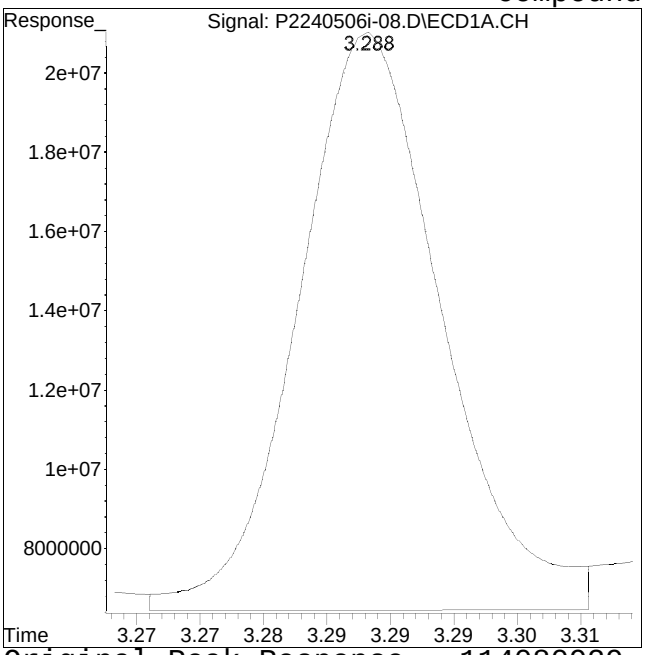
Manual Peak Response = 49330916 M4

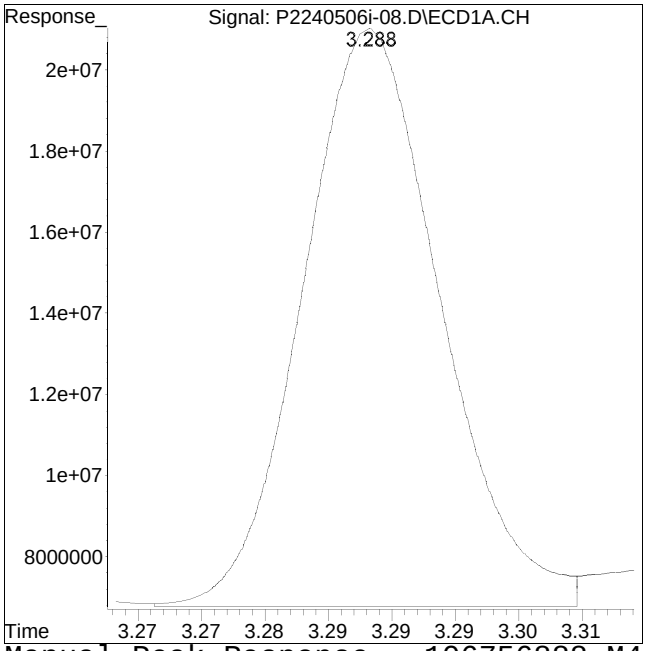
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #12: 1260-4



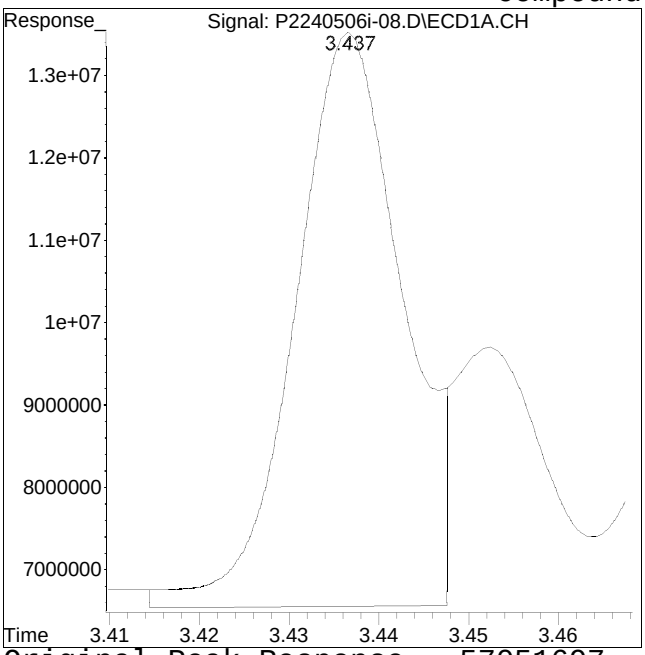


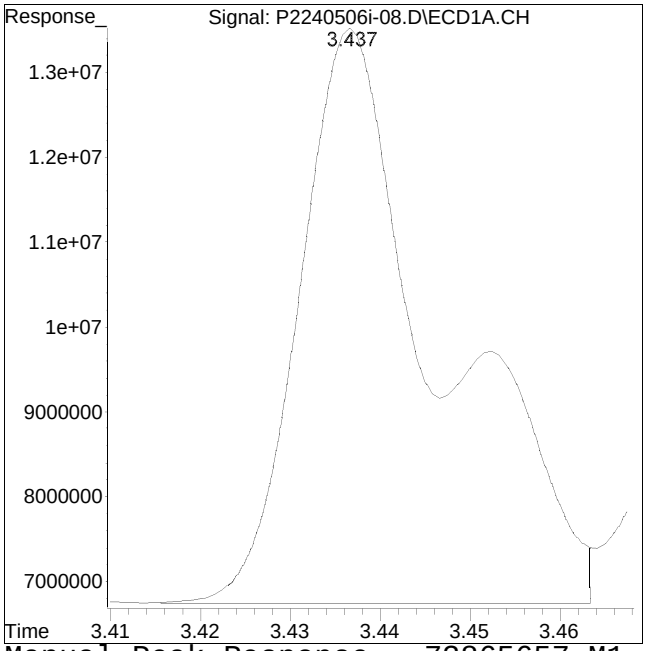
Original Peak Response = 114080929 Manual Peak Response = 106756888 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #13: 1260-5





Original Peak Response = 57051697 Manual Peak Response = 73865657 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:46 pm
Operator : pest2:rmp
Sample : il31660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:53 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.160	1.229	407.8E6	304.9E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.446	1.604	125.8E6	90520079	5.928	5.735
	Spiked Amount	20.000	Range 30 - 150		Recovery =	29.64%#	28.68%#
3) s	Decachlorobi	4.021	4.535	162.9E6	89288357	2.685M4	11.498M4
	Spiked Amount	20.000	Range 30 - 150		Recovery =	13.43%#	57.49%
	Target Compounds						
4) l1	1016-1	1.586	1.806	36249062	25493685	89.016	91.259
5) l1	1016-2	1.728	1.978	80757307	56271795	99.632	90.670
6) l1	1016-3	1.917	2.179	156.8E6	107.7E6	93.131	88.087
7) l1	1016-4	1.972	2.239	64161863	41654032	92.391	85.875
8) l1	1016-5	2.142	2.450	69303987	36552504	90.644M4	84.313
	Sum 1016-1			407.2E6	267.7E6	464.814	440.205
	Average 1016-1					92.963	88.041
9) l2	1260-1	2.686	3.061	99905923	59864552	82.817M4	73.045
10) l2	1260-2	2.817	3.162	155.3E6	75121033	3.250	77.855
11) l2	1260-3	3.133	3.555	97615758	59258669	85.330	75.289
12) l2	1260-4	3.289	3.684	200.6E6	115.2E6	8.236	90.108
13) l2	1260-5	3.437	3.886	139.3E6	80354238	11.929M1	89.485
	Sum 1260-1			692.7E6	389.8E6	N.D.	N.D. D
	Average 1260-1					38.312	81.156 D

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:46 pm
Operator : pest2:rmp
Sample : il31660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:53 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:46 pm
Operator : pest2:rmp
Sample : il31660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:53 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

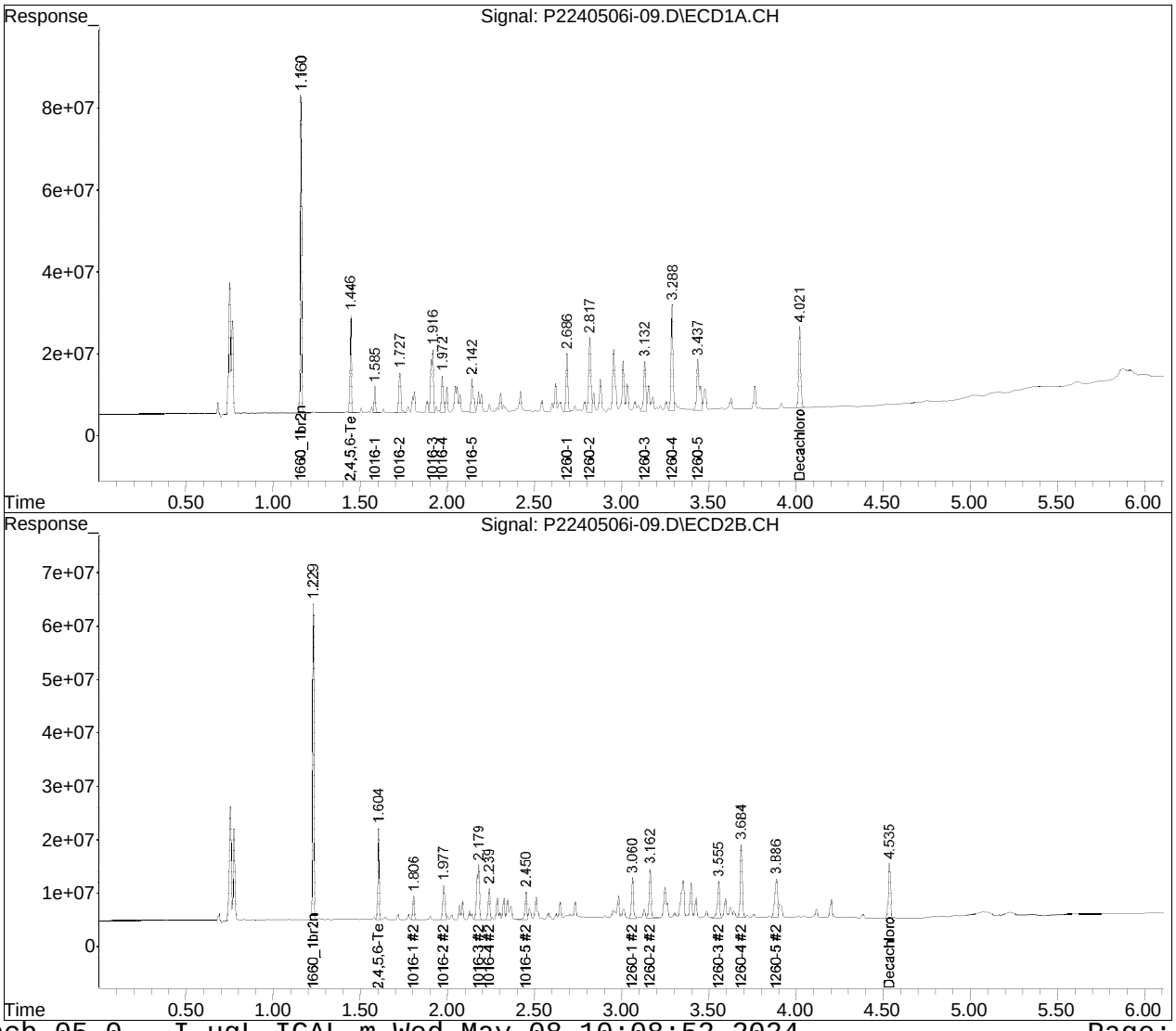
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:46 pm
Operator : pest2:rmp
Sample : il31660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:53 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

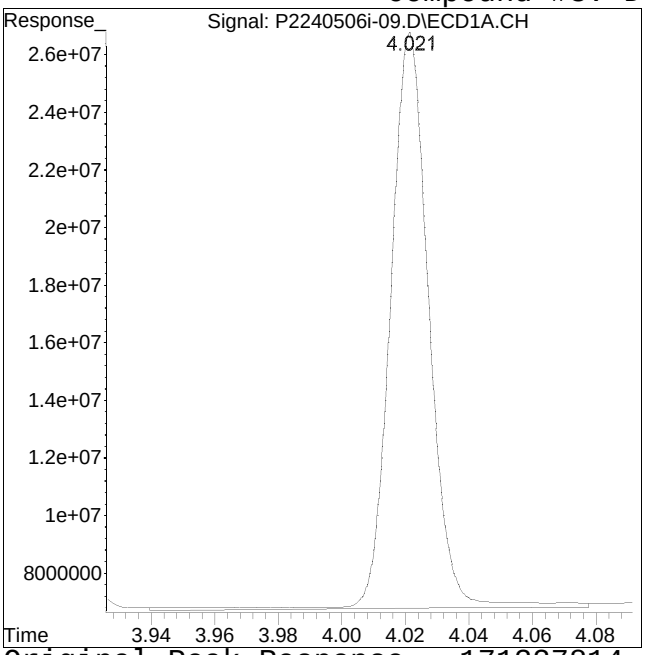
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

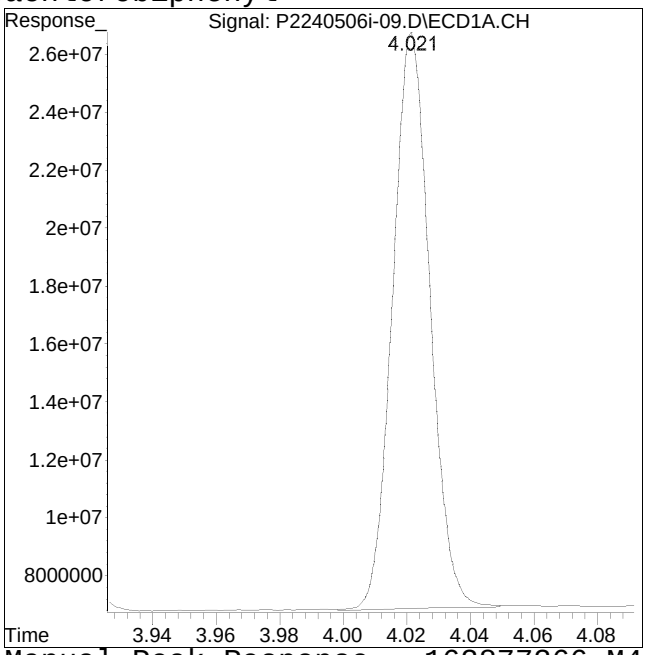


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-09.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:46 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #3: Decachlorobiphenyl



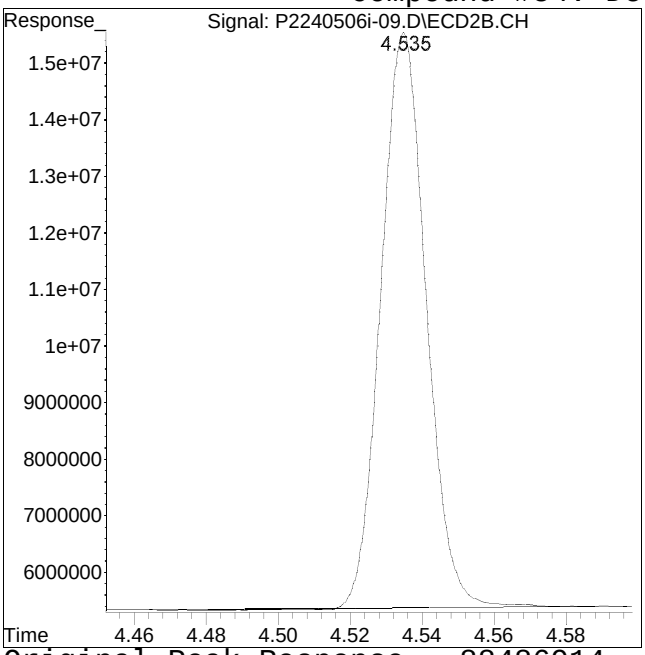


Original Peak Response = 171327814 Manual Peak Response = 162877366 M4
M4 = Poor automated baseline construction.

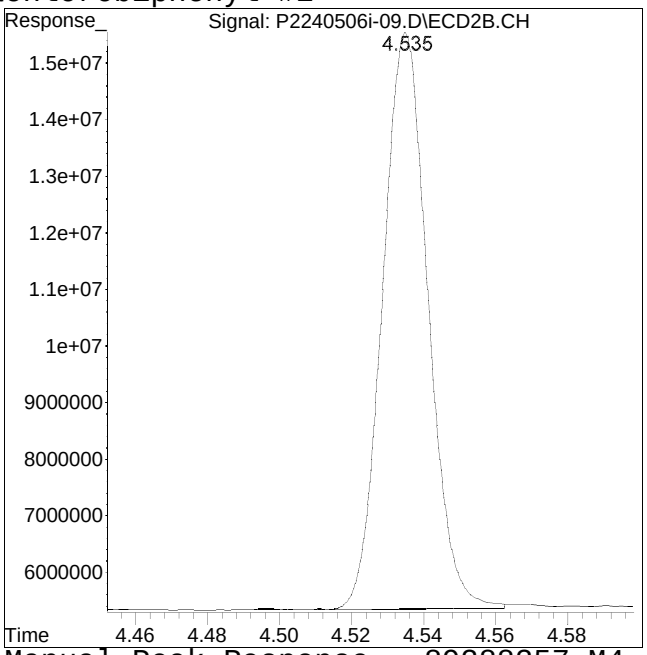
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-09.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:46 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #54: Decachlorobiphenyl #2



Original Peak Response = 88486914



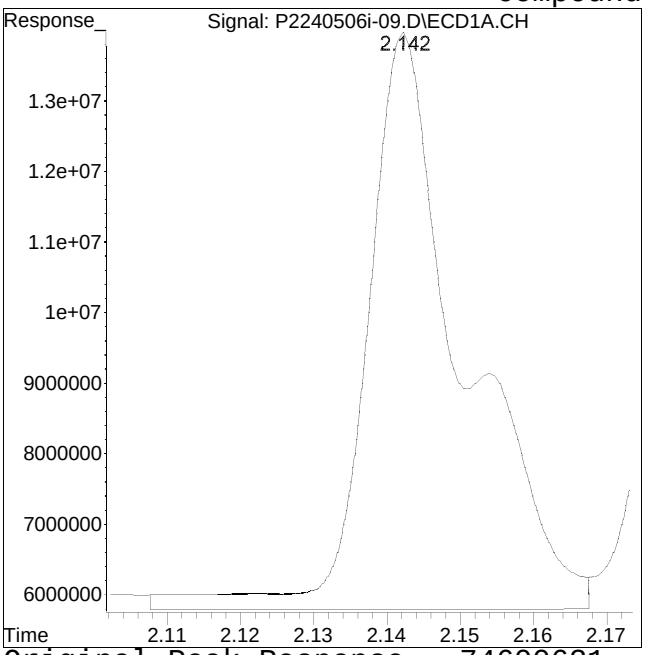
Manual Peak Response = 89288357 M4

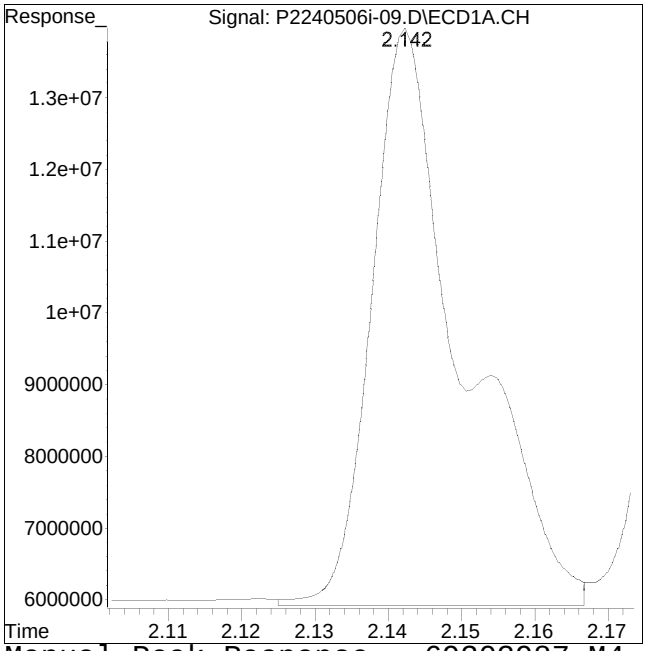
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-09.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:46 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #8: 1016-5



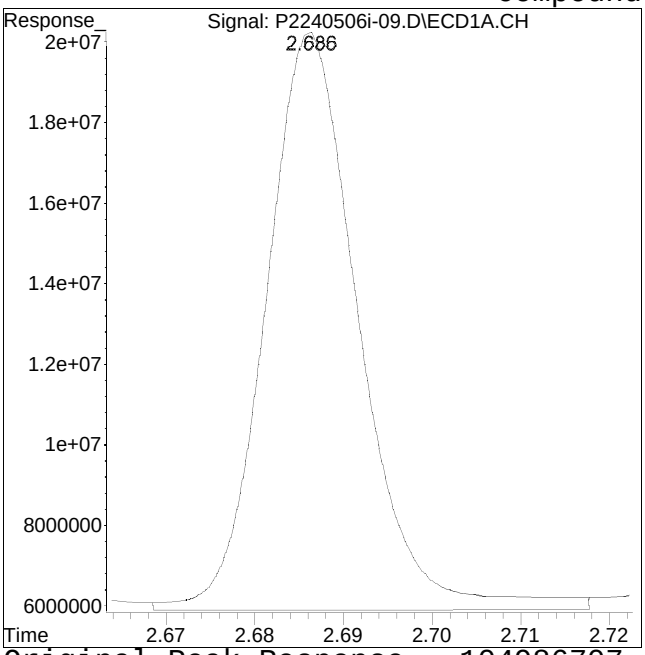


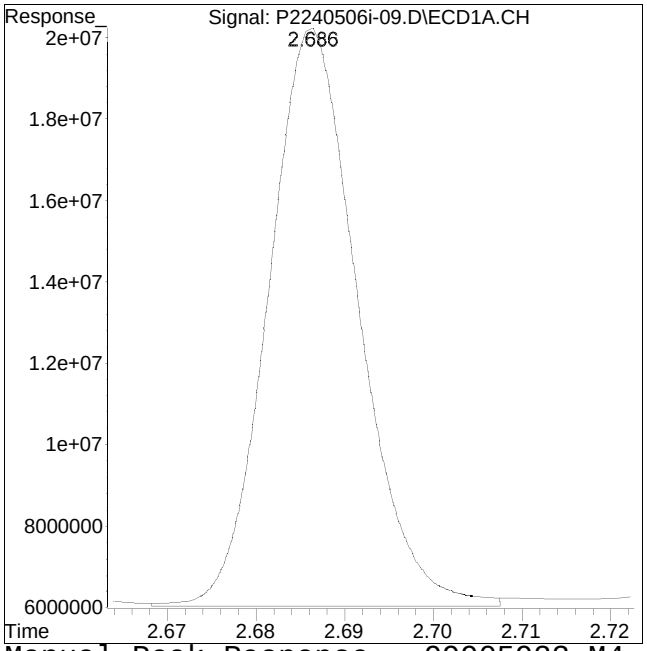
Original Peak Response = 74600631 Manual Peak Response = 69303987 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-09.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:46 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #9: 1260-1



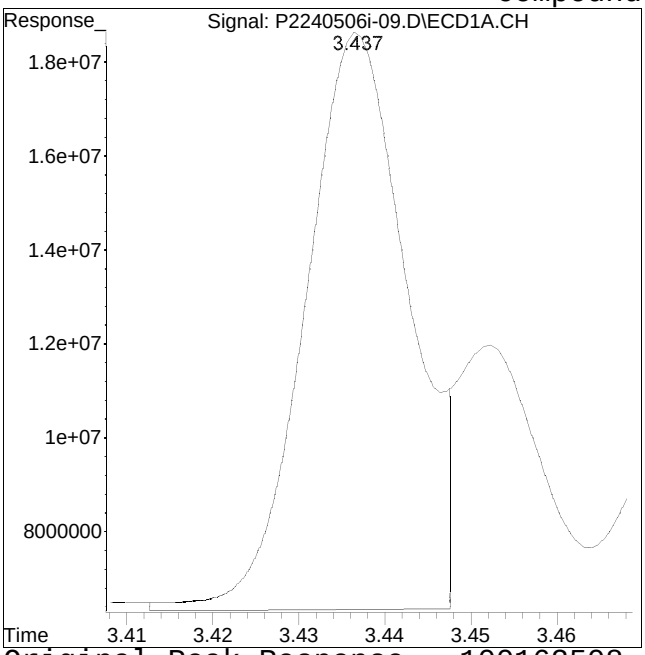


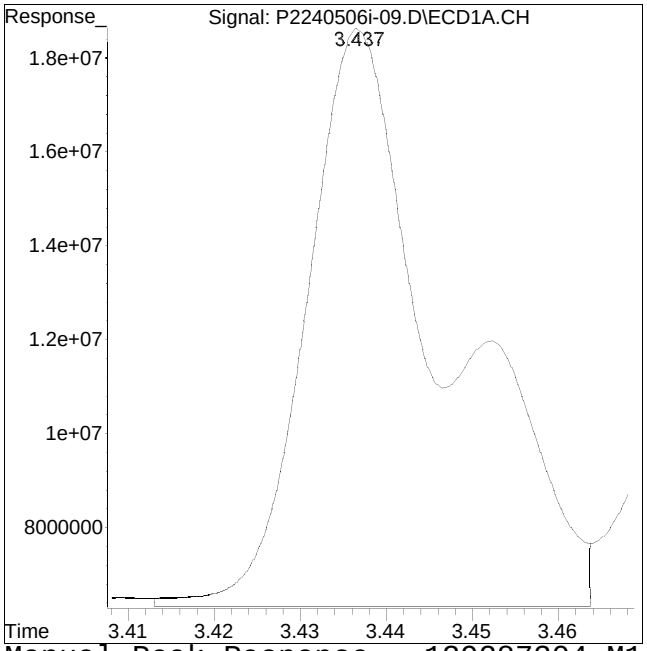
Original Peak Response = 104986707 Manual Peak Response = 99905923 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-09.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:46 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #13: 1260-5





Original Peak Response = 100162508 Manual Peak Response = 139287304 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:55 pm
Operator : pest2:rmp
Sample : il41660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:08 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:06 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.160	1.229	411.7E6	309.9E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.446	1.605	440.1E6	304.5E6	20.928	19.488
	Spiked Amount 20.000	Range 30 - 150		Recovery =		104.64%	97.44%
3) s	Decachlorobi	4.022	4.536	551.8E6	271.9E6	11.192	35.423
	Spiked Amount 20.000	Range 30 - 150		Recovery =		55.96%	177.12%#
	Target Compounds						
4) l1	1016-1	1.586	1.806	112.2E6	79371159	280.686	285.782
5) l1	1016-2	1.728	1.978	251.1E6	174.4E6	307.207	283.030
6) l1	1016-3	1.917	2.179	526.9E6	348.1E6	315.467	288.731
7) l1	1016-4	1.972	2.239	206.5E6	132.5E6	300.281	278.595
8) l1	1016-5	2.143	2.450	225.4E6	110.5E6	293.818	260.901
	Sum 1016-1			1322.1E6	844.8E6	1497.458	1397.039
Average	1016-1					299.492	279.408
9) l2	1260-1	2.686	3.060	324.1E6	185.1E6	278.182	238.257
10) l2	1260-2	2.817	3.162	492.4E6	220.8E6	13.461	238.363
11) l2	1260-3	3.133	3.555	306.0E6	178.1E6	278.618	237.246
12) l2	1260-4	3.289	3.684	666.9E6	358.9E6	35.206	283.117
13) l2	1260-5	3.437	3.886	465.8E6	250.2E6	51.221M1	281.492
	Sum 1260-1			2255.2E6	1193.0E6	N.D.	N.D. D
Average	1260-1					131.338	255.695 D
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:55 pm
Operator : pest2:rmp
Sample : il41660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:08 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:06 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:55 pm
Operator : pest2:rmp
Sample : il41660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:08 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:06 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

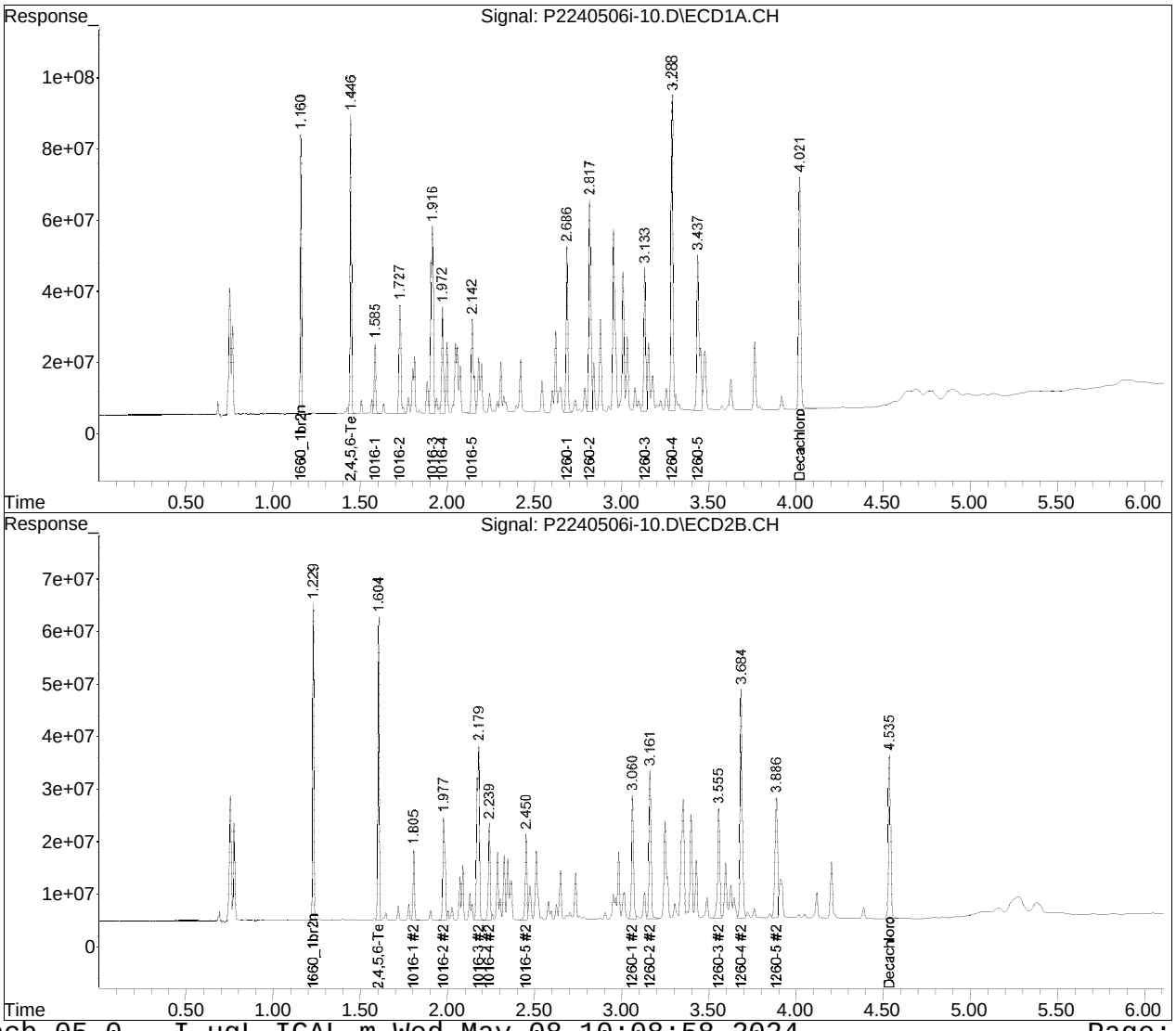
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:55 pm
Operator : pest2:rmp
Sample : il41660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:08 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:06 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

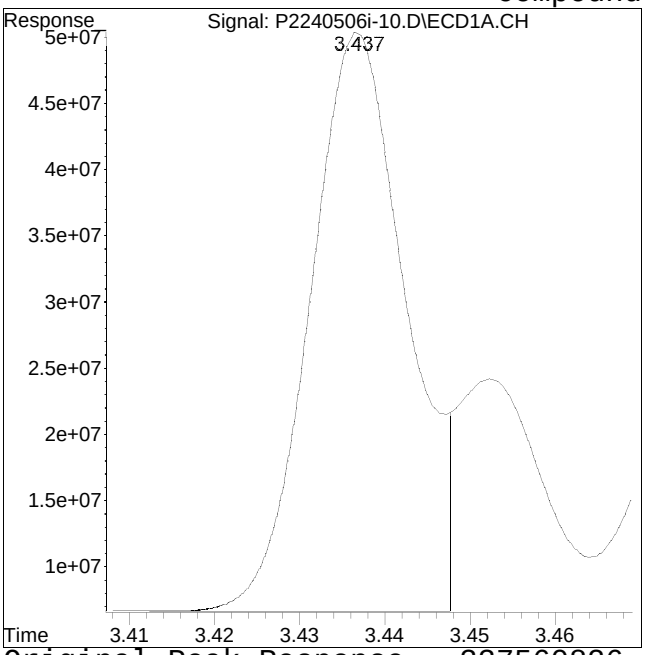
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

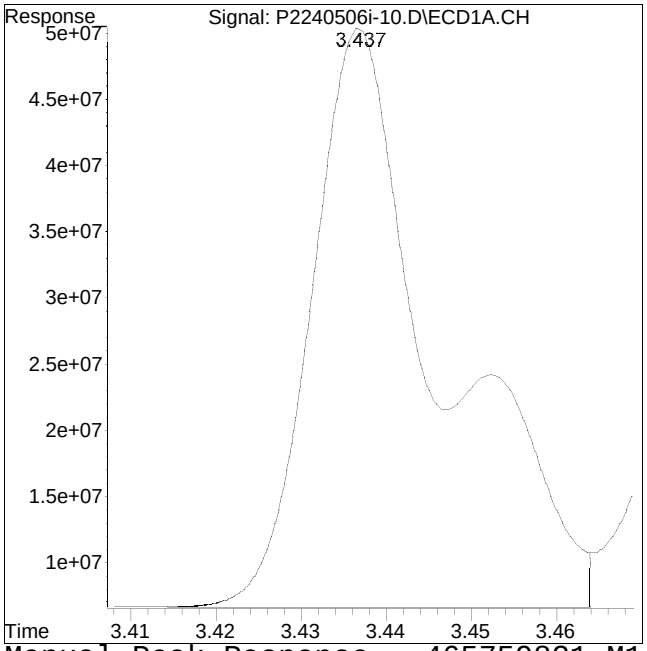


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-10.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:55 pm Instrument : Pest 2
Sample : il41660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #13: 1260-5





Original Peak Response = 337560826 Manual Peak Response = 465759821 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:04 pm
Operator : pest2:rmp
Sample : il51660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:23 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.160	1.230	415.5E6	312.5E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.446	1.605	709.8E6	477.1E6	33.443	30.273
	Spiked Amount 20.000	Range 30 - 150		Recovery =		167.21%#	151.36%#
3) s	Decachlorobi	4.022	4.536	878.0E6	426.7E6	17.644	55.122
	Spiked Amount 20.000	Range 30 - 150		Recovery =		88.22%	275.61%#
	Target Compounds						
4) l1	1016-1	1.586	1.807	175.4E6	121.0E6	434.757	431.996
5) l1	1016-2	1.727	1.978	392.1E6	263.3E6	475.280M1	423.742
6) l1	1016-3	1.917	2.179	836.6E6	534.7E6	496.332	439.704
7) l1	1016-4	1.972	2.239	325.4E6	201.9E6	468.913M3	421.018M3
8) l1	1016-5	2.143	2.450	354.7E6	165.1E6	458.196	386.567
Sum	1016-1			2084.3E6	1285.9E6	2333.478	2103.027
Average	1016-1					466.696	420.605
9) l2	1260-1	2.687	3.061	510.9E6	302.2E6	434.496	385.766
10) l2	1260-2	2.817	3.163	779.2E6	358.7E6	21.109	383.873
11) l2	1260-3	3.133	3.555	486.1E6	279.5E6	438.536	369.268
12) l2	1260-4	3.289	3.685	1064.5E6	561.4E6	55.681	439.112
13) l2	1260-5	3.437	3.887	741.6E6	390.9E6	81.944M1	436.141
Sum	1260-1			3582.3E6	1892.7E6	N.D.	N.D. D
Average	1260-1					206.353	402.832 D

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:04 pm
Operator : pest2:rmp
Sample : il51660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:23 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:04 pm
Operator : pest2:rmp
Sample : il51660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:23 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

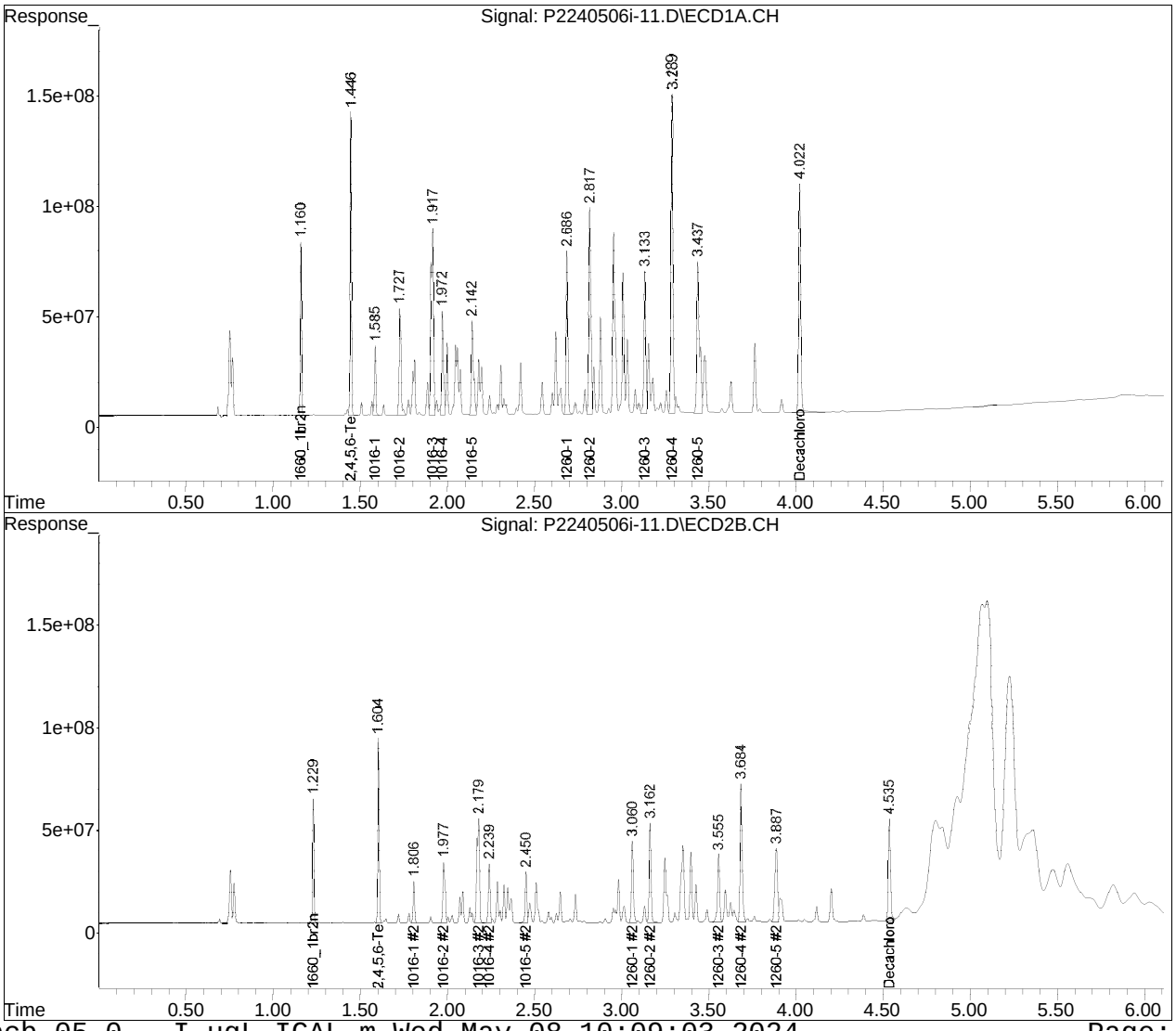
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:04 pm
Operator : pest2:rmp
Sample : il51660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:23 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

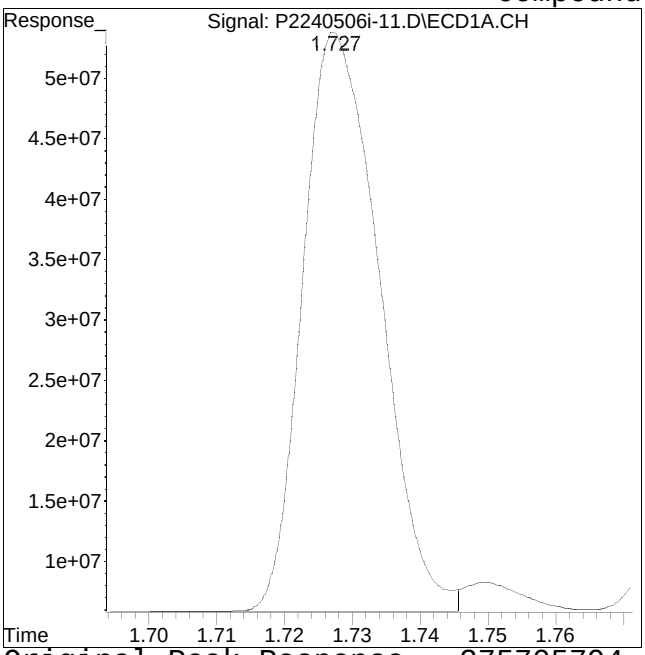
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

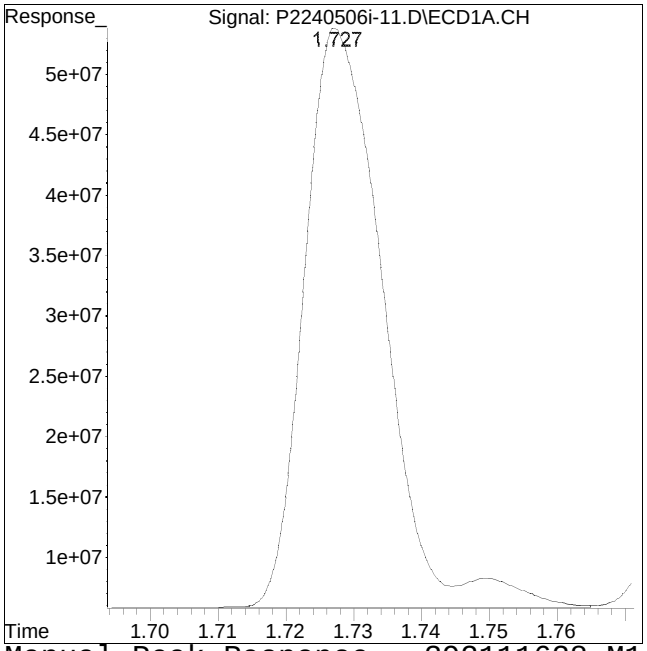


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-11.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:04 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #5: 1016-2



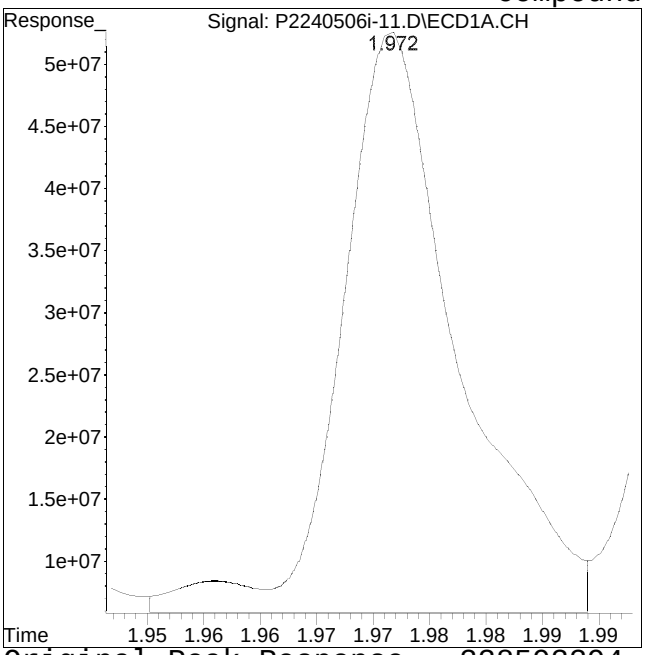


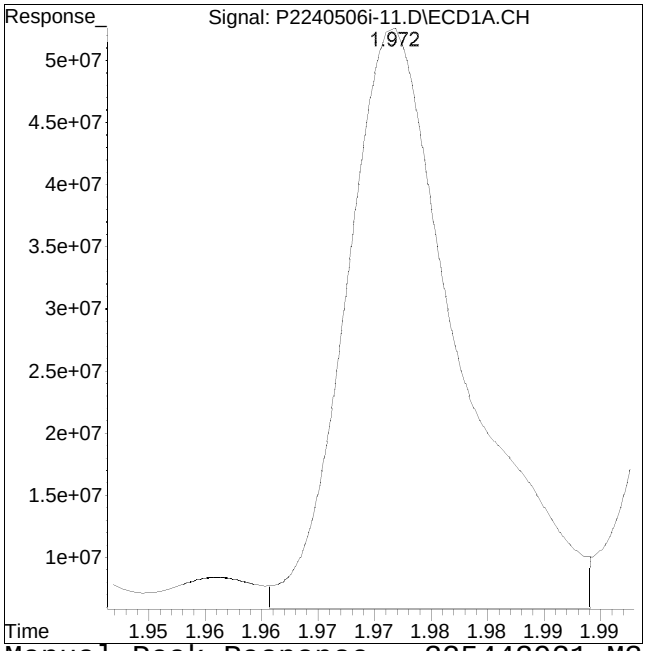
Original Peak Response = 375705794 Manual Peak Response = 392111628 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-11.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:04 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #7: 1016-4



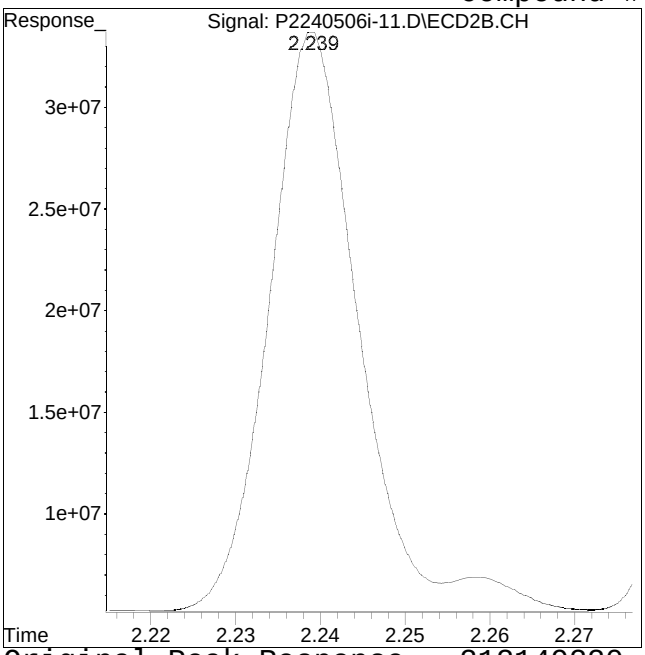


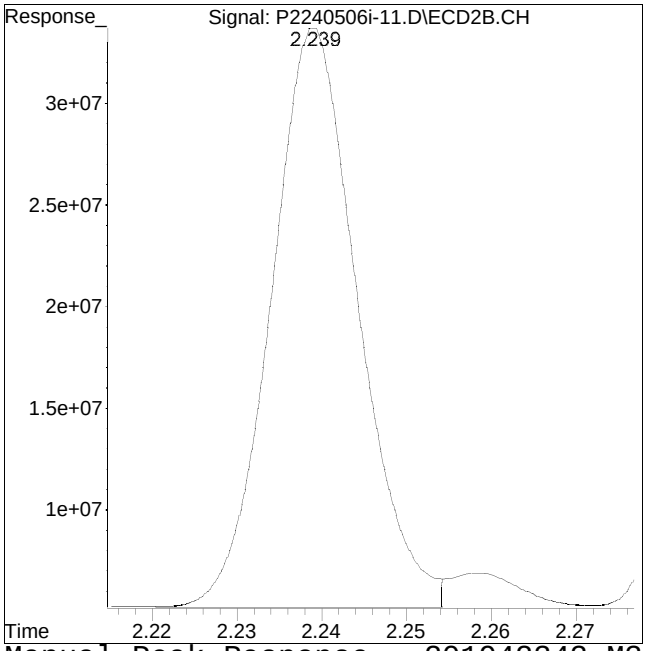
Original Peak Response = 338593394 Manual Peak Response = 325443921 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-11.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:04 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #58: 1016-4 #2



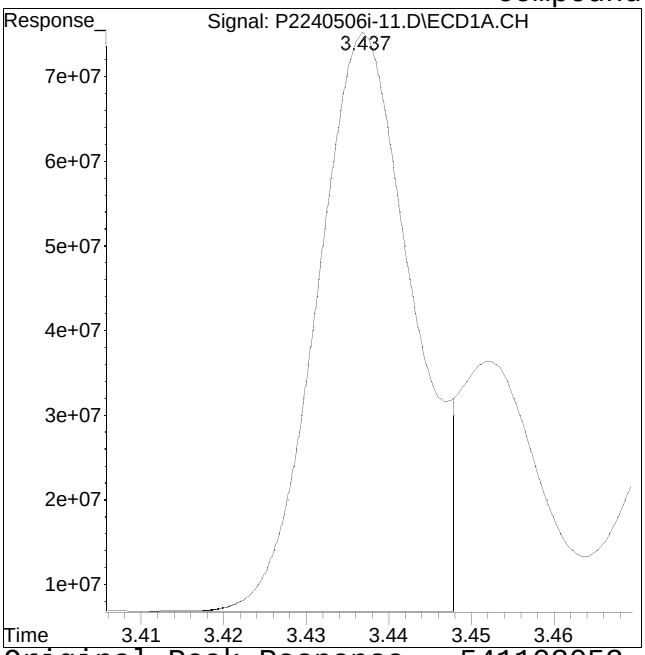


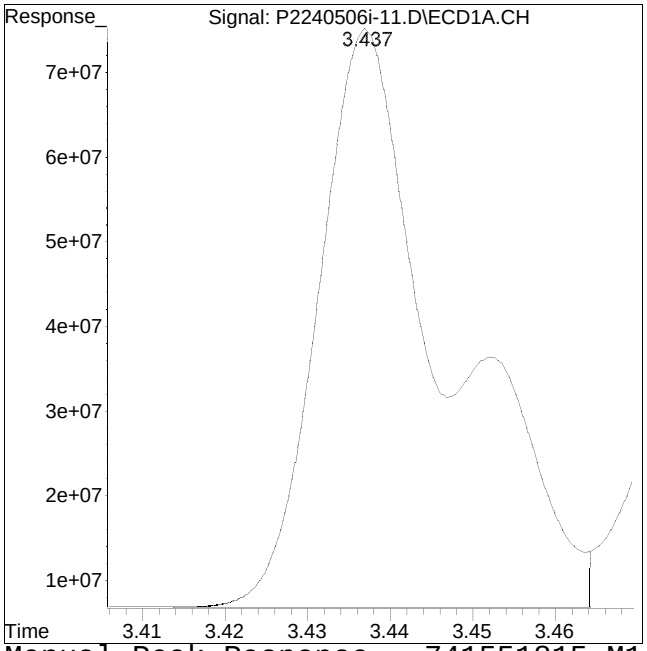
Original Peak Response = 212149220 Manual Peak Response = 201942343 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-11.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:04 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #13: 1260-5





Original Peak Response = 541103053 Manual Peak Response = 741551815 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:14 pm
Operator : pest2:rmp
Sample : il61660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.161	1.230	401.7E6	305.6E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.447	1.605	1463.5E6	957.9E6	70.673M3	62.850
	Spiked Amount	20.000	Range 30 - 150		Recovery =	353.37%#	314.25%#
3) s	Decachlorobi	4.023	4.535	1761.5E6	817.7E6	42.812	111.103M4
	Spiked Amount	20.000	Range 30 - 150		Recovery =	214.06%#	555.51%#
	Target Compounds						
4) l1	1016-1	1.586	1.807	342.3E6	232.3E6	900.980M3	871.969
5) l1	1016-2	1.728	1.978	765.1E6	503.6E6	976.532M1	855.096
6) l1	1016-3	1.917	2.180	1690.8E6	1044.7E6	1038.946M3	900.390
7) l1	1016-4	1.972	2.239	662.4E6	383.2E6	991.931M3	836.439M3
8) l1	1016-5	2.143	2.451	720.0E6	317.8E6	978.184	797.334
Sum	1016-1			4180.7E6	2481.6E6	4886.574	4261.228
Average	1016-1					977.315	852.246
9) l2	1260-1	2.688	3.061	1033.5E6	527.7E6	939.787	721.882
10) l2	1260-2	2.817	3.162	1568.2E6	627.9E6	54.345M3	720.794M4
11) l2	1260-3	3.134	3.555	996.8E6	522.5E6	959.541	744.967M4

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:14 pm
Operator : pest2:rmp
Sample : il61660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12) l2	1260-4	3.290	3.685	2155.4E6	1058.3E6	141.797M3	867.797M4
13) l2	1260-5	3.438	3.887	1531.1E6	741.7E6	212.374	868.512M4
Sum	1260-1			7285.0E6	3478.2E6	N.D.	N.D. D
Average	1260-1					461.569	784.790 D
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:14 pm
Operator : pest2:rmp
Sample : il61660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
33)	l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35)	l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36)	l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37)	l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38)	l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39)	l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41)	l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42)	l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43)	l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44)	l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45)	l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46)	l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47)	l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48)	l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49)	l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50)	l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:14 pm
Operator : pest2:rmp
Sample : il61660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

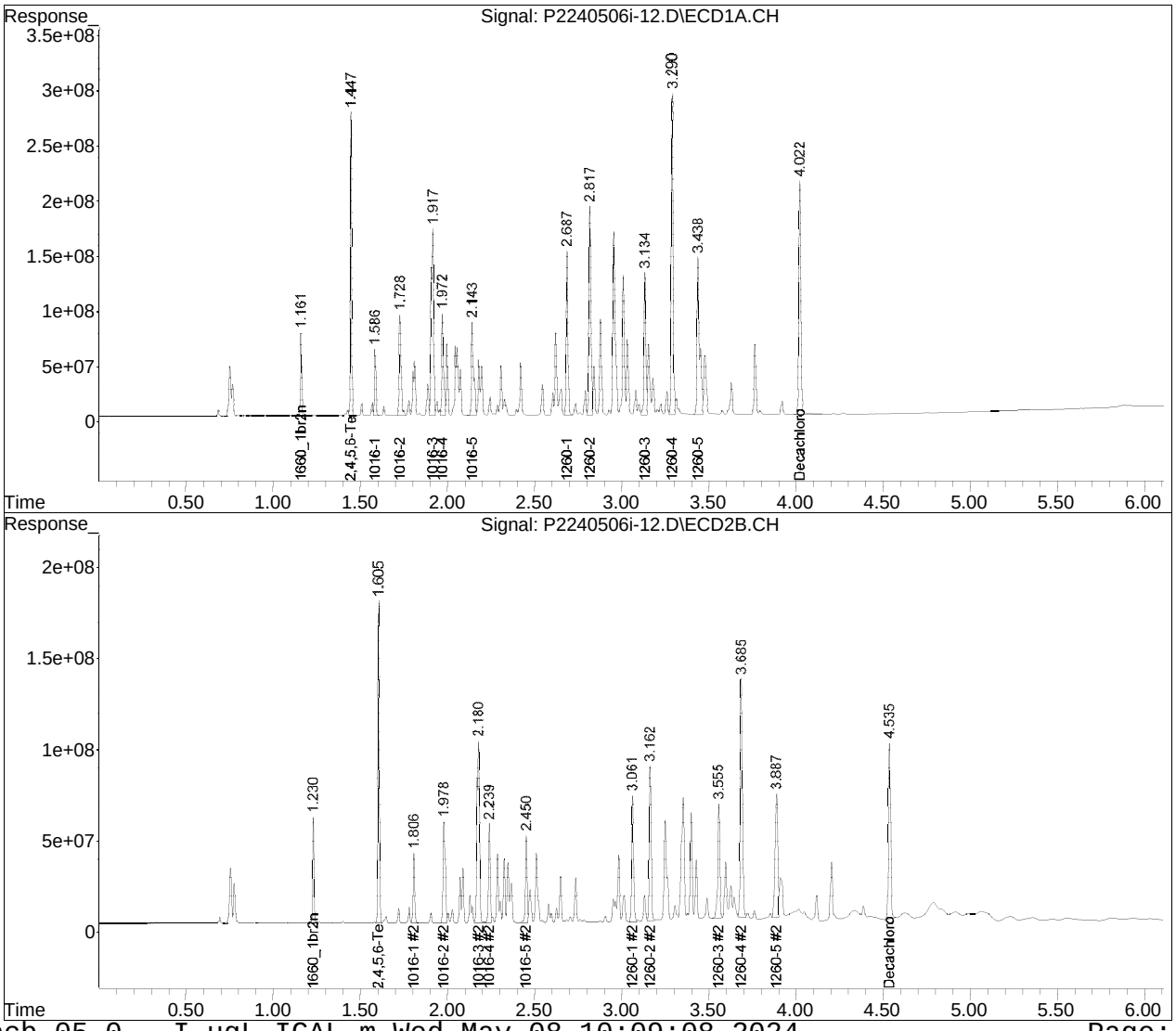
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:14 pm
Operator : pest2:rmp
Sample : il61660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

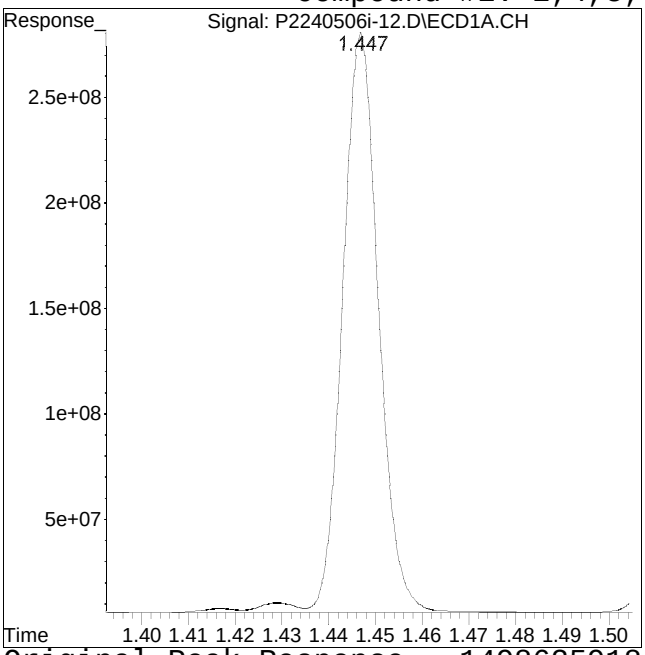
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

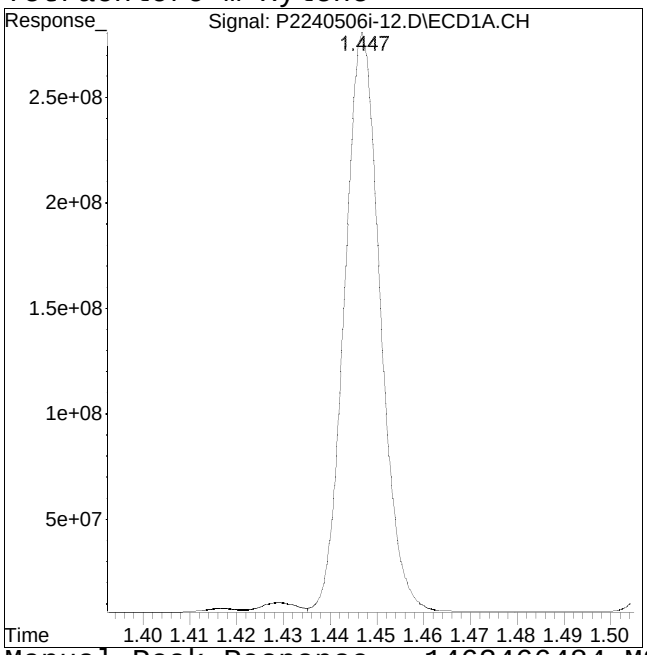


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



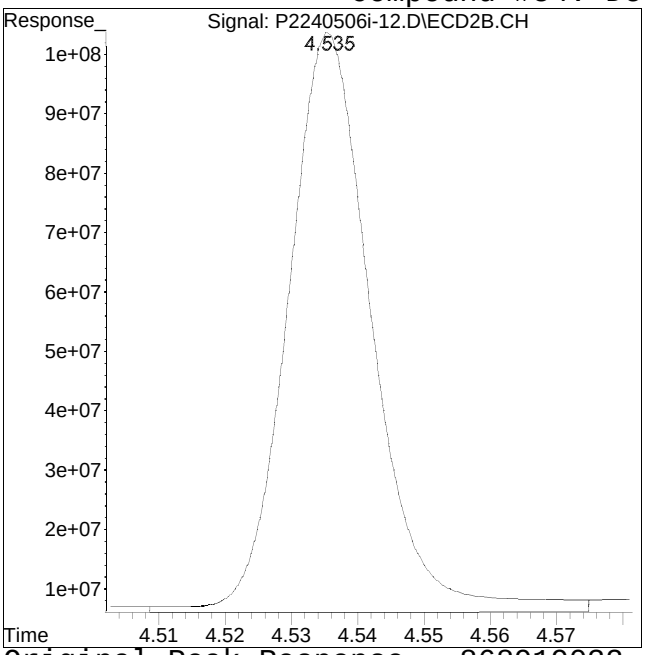


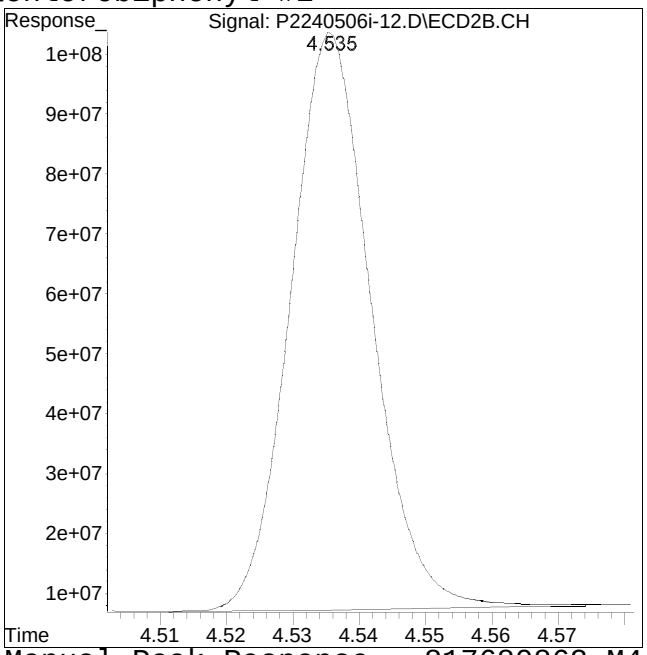
Original Peak Response = 1498625918 Manual Peak Response = 1463466484 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #54: Decachlorobiphenyl #2



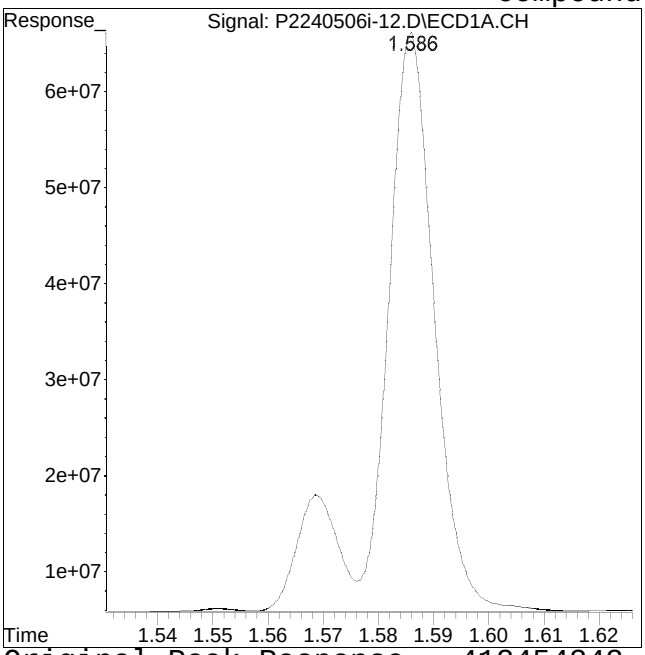


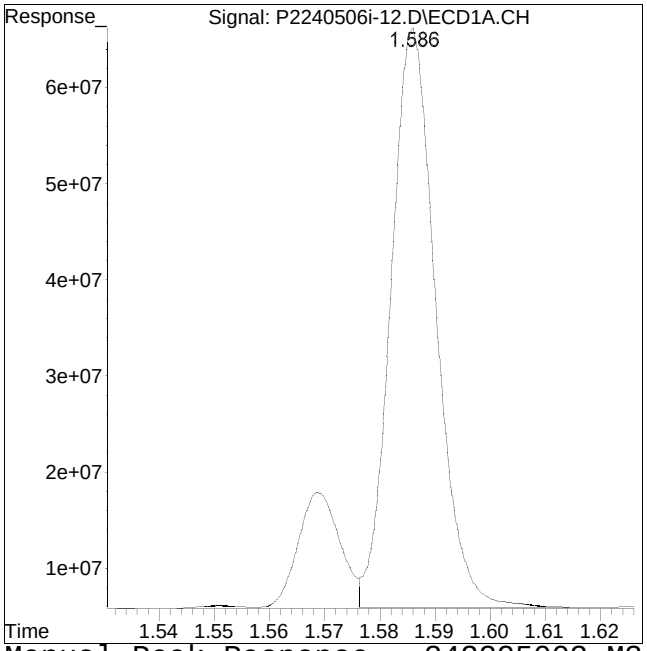
Original Peak Response = 868919032 Manual Peak Response = 817680862 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #4: 1016-1



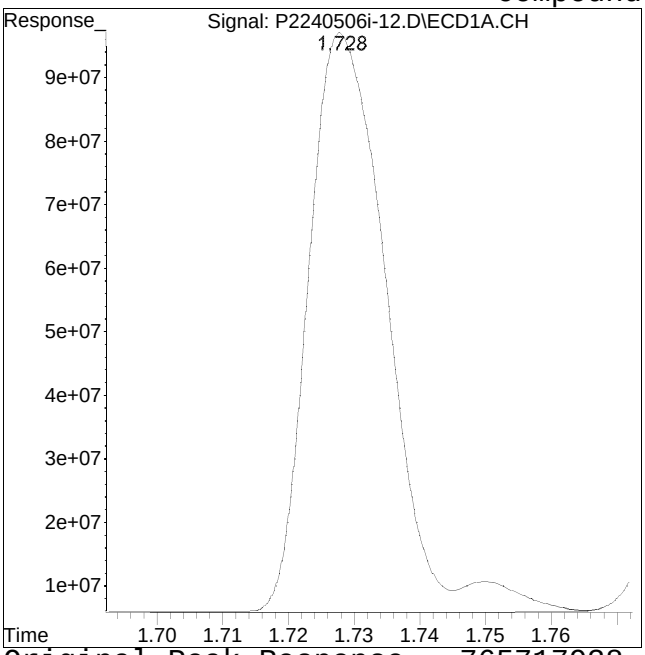


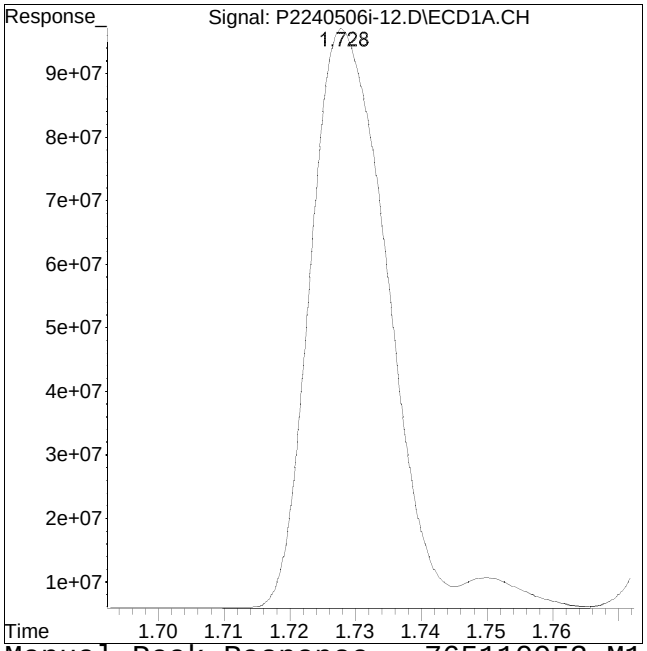
Original Peak Response = 412454242 Manual Peak Response = 342325003 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #5: 1016-2



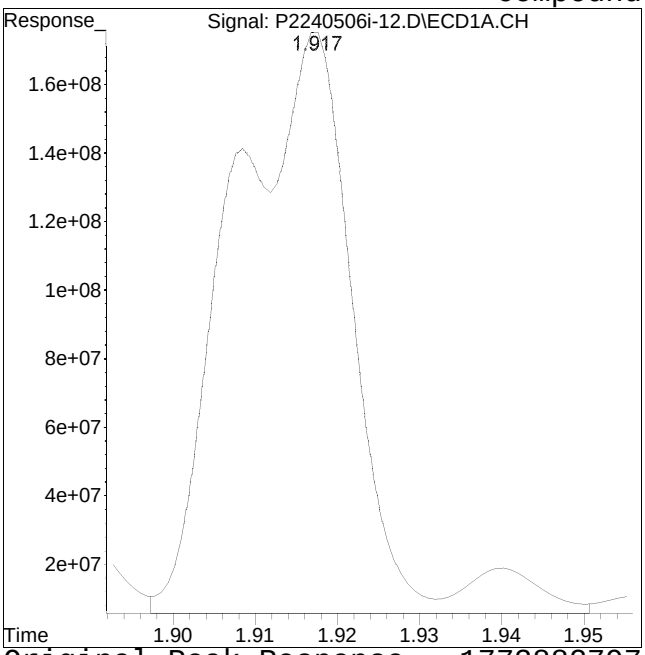


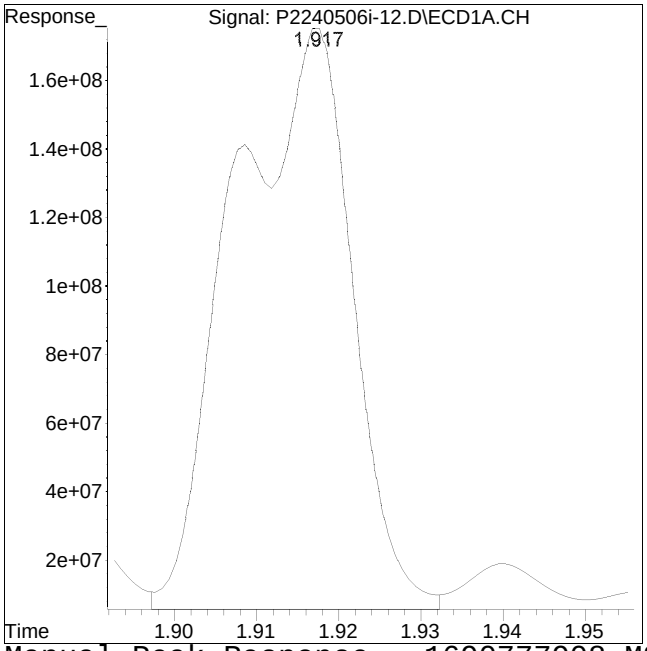
Original Peak Response = 765717938 Manual Peak Response = 765110953 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #6: 1016-3



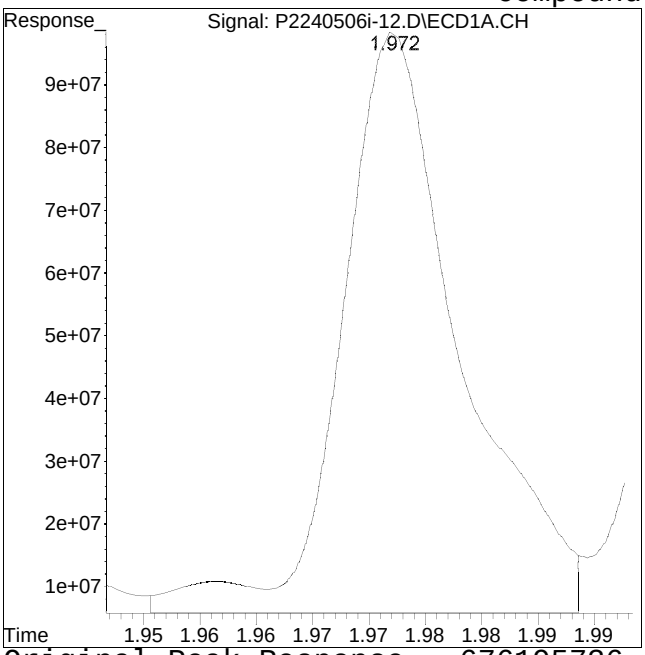


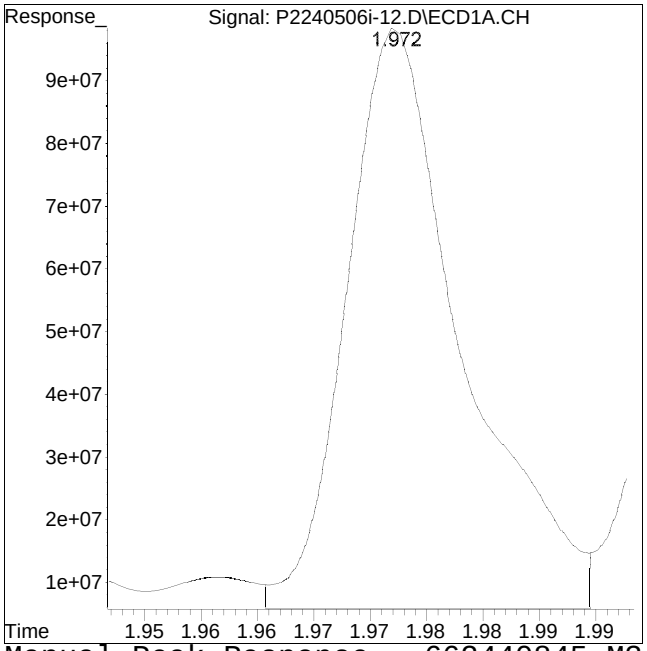
Original Peak Response = 1773882797 Manual Peak Response = 1690777908 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #7: 1016-4



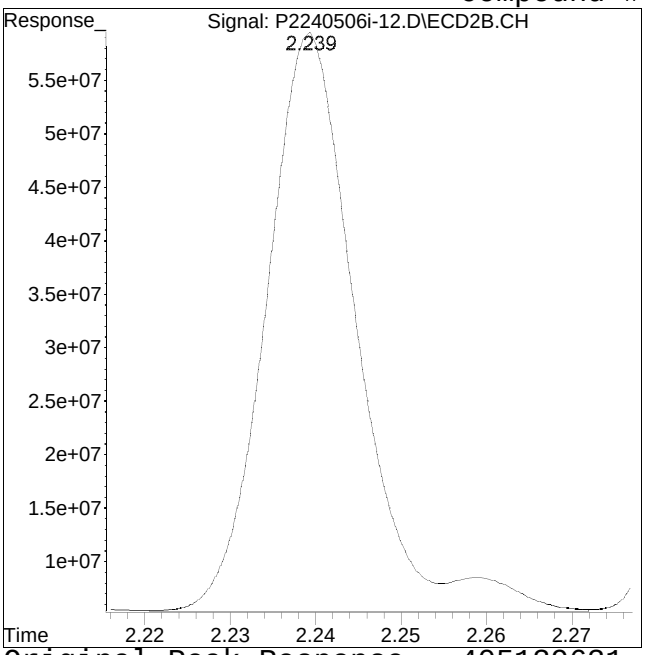


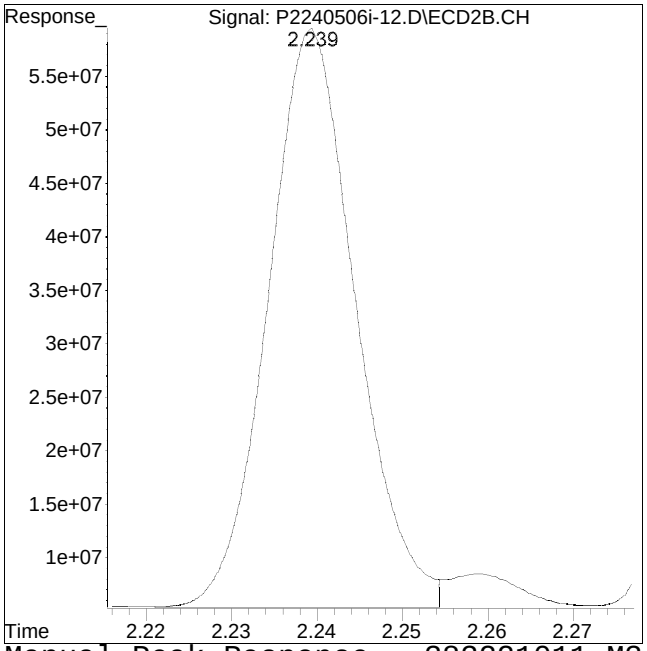
Original Peak Response = 676195736 Manual Peak Response = 662440845 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #58: 1016-4 #2



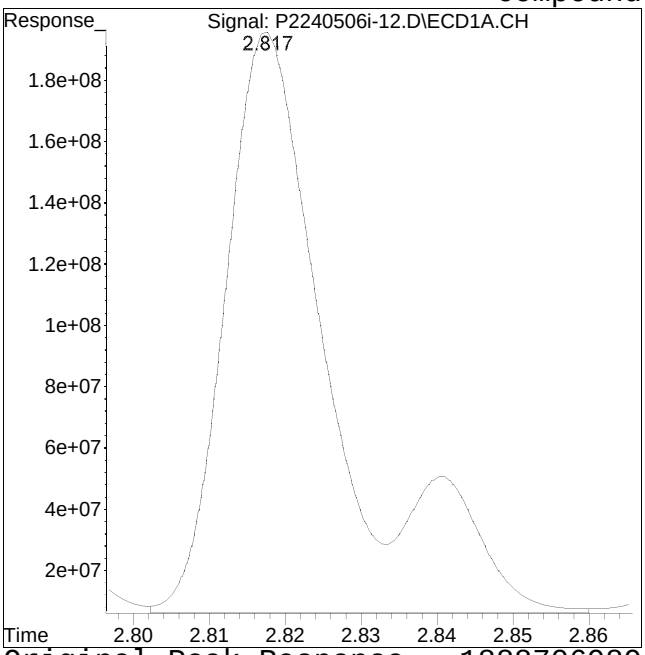


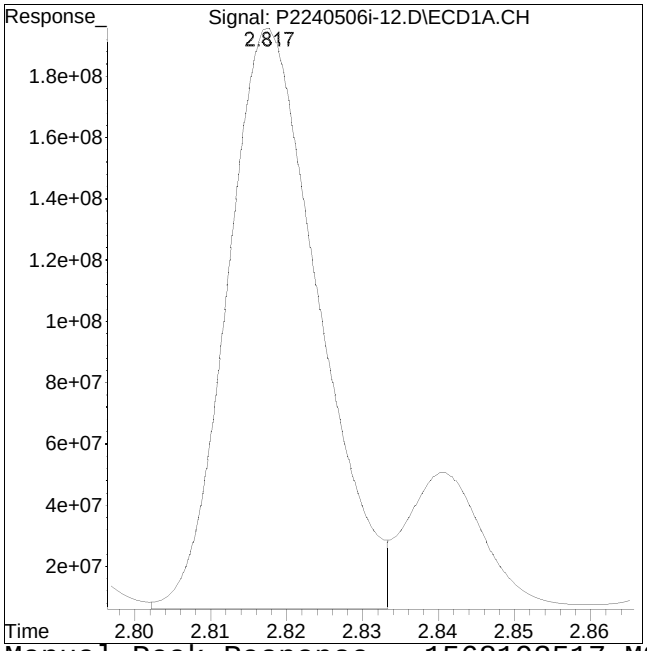
Original Peak Response = 405139631 Manual Peak Response = 383221011 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #10: 1260-2



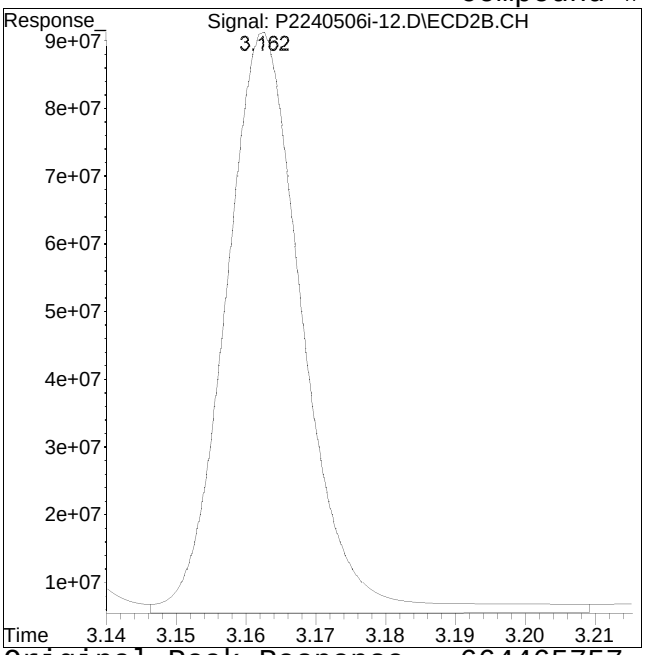


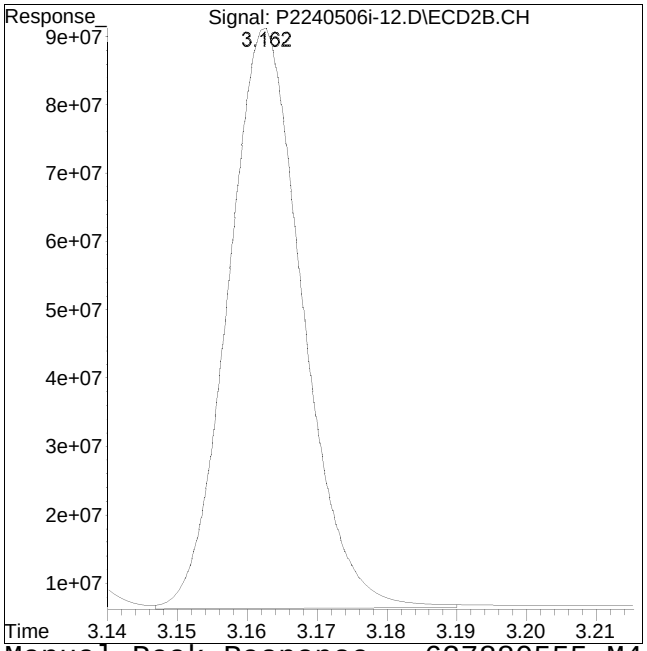
Original Peak Response = 1888706989 Manual Peak Response = 1568193517 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #61: 1260-2 #2



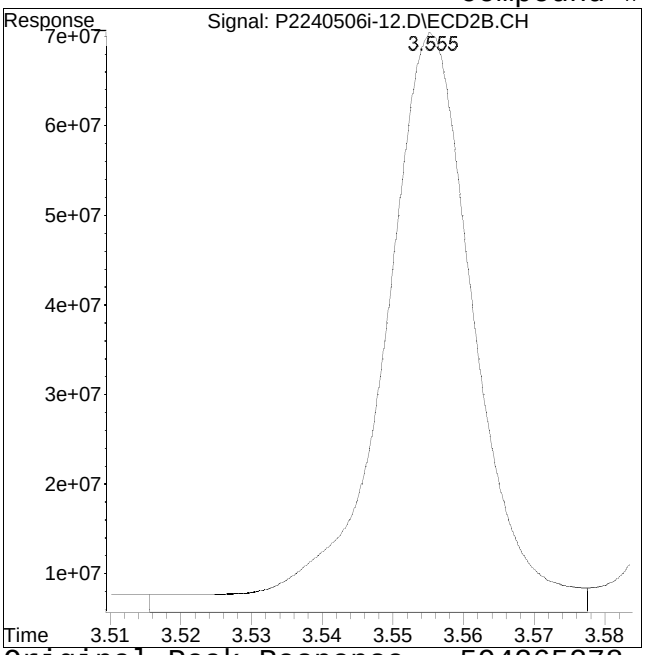


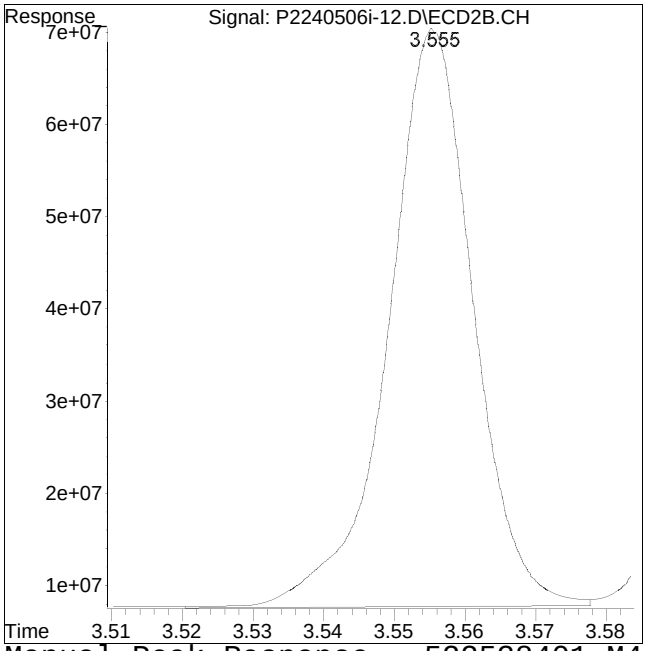
Original Peak Response = 664465757 Manual Peak Response = 627880555 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #62: 1260-3 #2



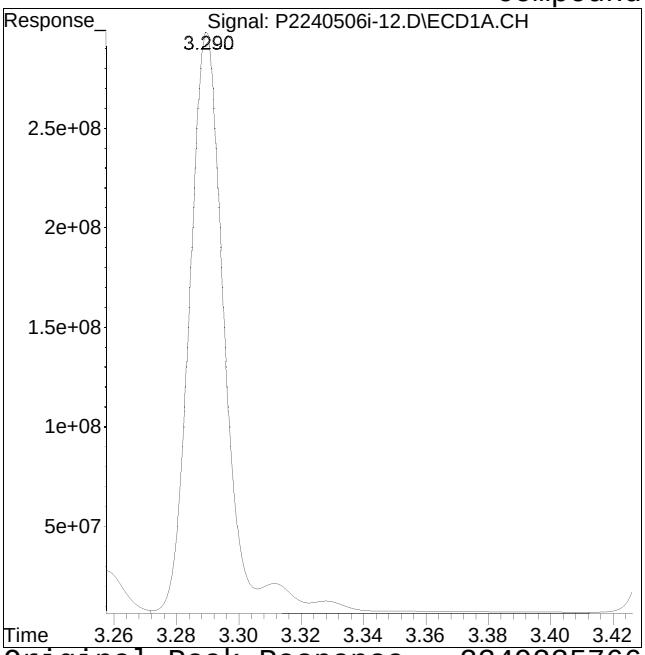


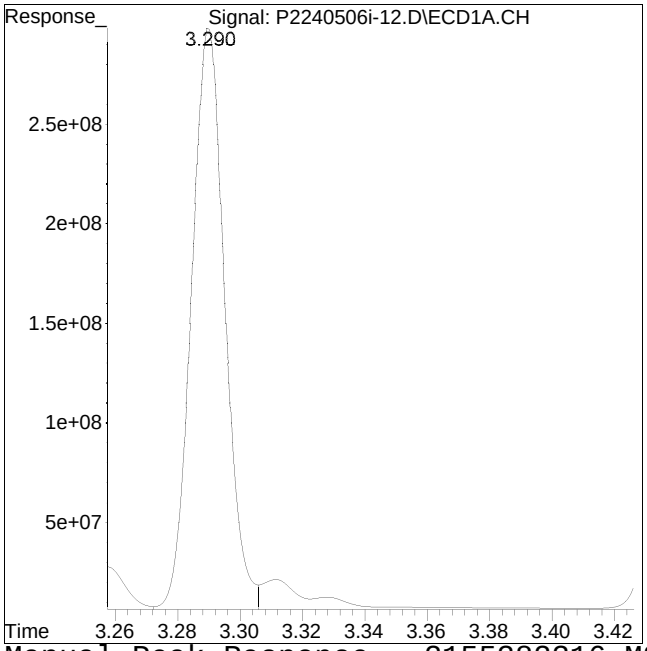
Original Peak Response = 594265278 Manual Peak Response = 522538401 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #12: 1260-4



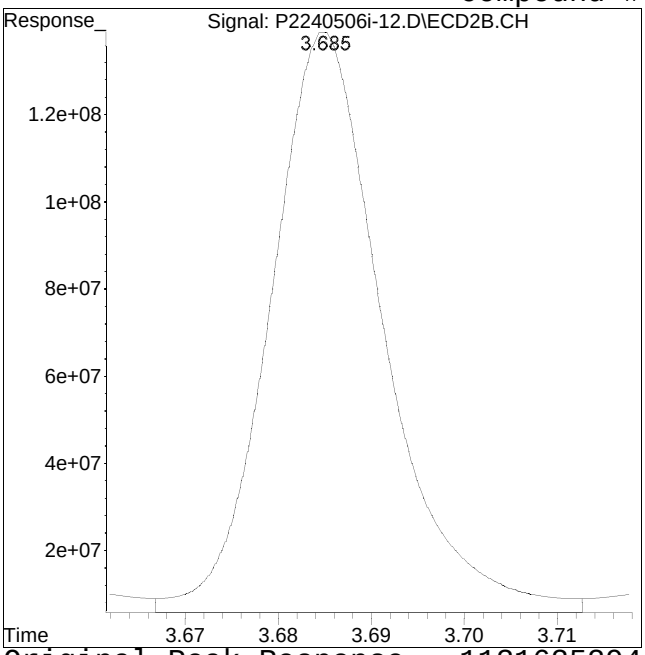


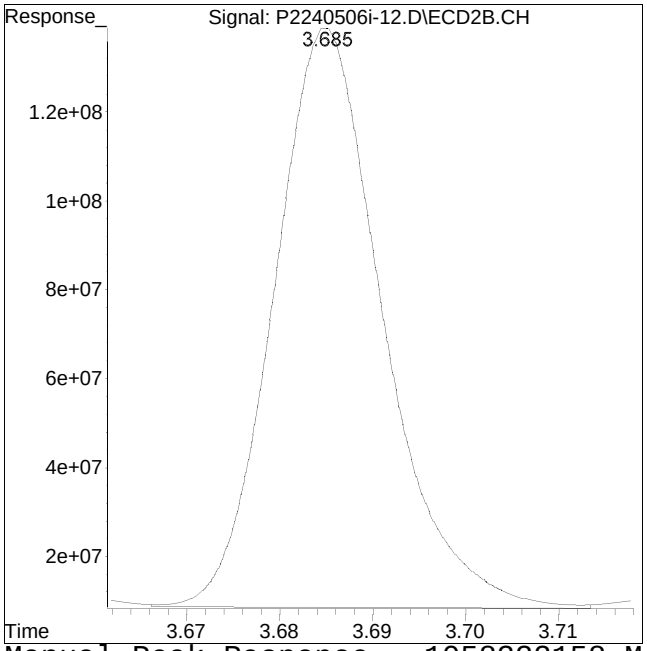
Original Peak Response = 2349235766 Manual Peak Response = 2155382316 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #63: 1260-4 #2



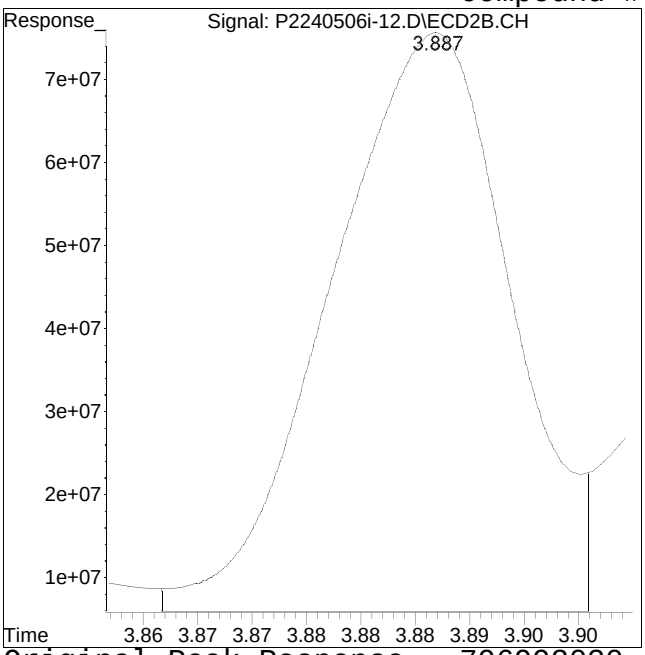


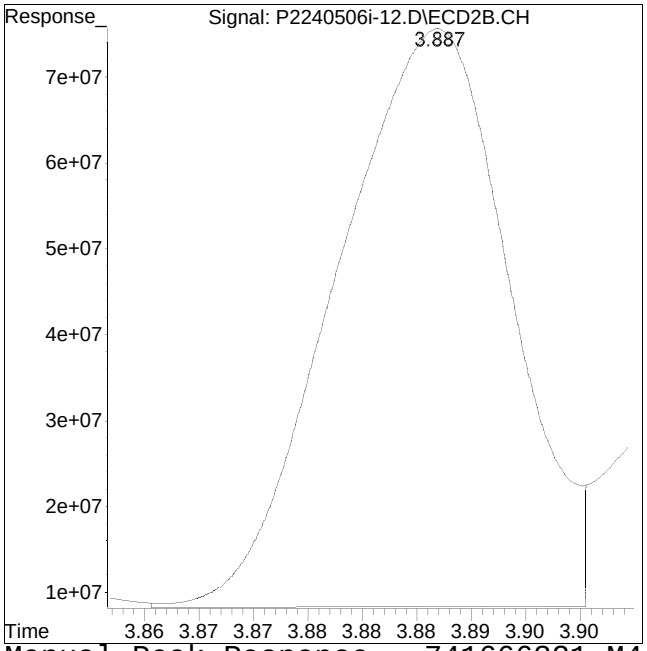
Original Peak Response = 1131625294 Manual Peak Response = 1058332158 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #64: 1260-5 #2





Original Peak Response = 796992030 Manual Peak Response = 741666321 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample   : cicv4268,42,,pp 11468
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	90	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.427	-8.8	78	0.00
3	s	Decachlorobiphenyl		0.847	1.620	-91.3#	142	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	99	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	100	0.00
24	l6	1242-1		0.019	0.020	-5.3	108	0.00
25	l6	1242-2		0.040	0.044	-10.0	109	0.00
26	l6	1242-3		0.087	0.093	-6.9	108	0.00
27	l6	1242-4		0.035	0.037	-5.7	108	0.00
28	l6	1242-5		0.027	0.030	-11.1	113	0.00
29	l9	1268-1		0.181	0.210	-16.0	117	0.00
30	l9	1268-2		0.167	0.189	-13.2	114	0.00
31	l9	1268-3		0.133	0.140	-5.3	106	0.00
32	l9	1268-4		0.058	0.060	-3.4	103	0.00
33	l9	1268-5		0.392	0.394	-0.5	101	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	95	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	100	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	93	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.232	1.312	-6.5	79	0.00
3	s	Decachlorobiphenyl		0.580	1.038	-79.0#	141	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	105	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample   : cicv4268,42,,pp 11468
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
23	i	4268_1br2nb	^	1.000	1.000	0.0	104	0.00
24	l6	1242-1		0.017	0.018	-5.9	110	0.00
25	l6	1242-2		0.038	0.042	-10.5	114	0.00
26	l6	1242-3		0.073	0.081	-11.0	116	0.00
27	l6	1242-4		0.029	0.033	-13.8	116	0.00
28	l6	1242-5		0.022	0.024	-9.1	114	0.00
29	l9	1268-1		0.119	0.148	-24.4#	130	0.00
30	l9	1268-2		0.110	0.132	-20.0#	124	0.00
31	l9	1268-3		0.090	0.100	-11.1	115	0.00
32	l9	1268-4		0.039	0.044	-12.8	117	0.00
33	l9	1268-5		0.245	0.259	-5.7	110	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	99	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	106	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.022	0.000	100.0#	0#	-1.59#
5	l1	1016-2		0.049	0.000	100.0#	0#	-1.73#
6	l1	1016-3		0.101	0.000	100.0#	0#	-1.92#
7	l1	1016-4		0.040	0.000	100.0#	0#	-1.97#
8	l1	1016-5		0.045	0.000	100.0#	0#	-2.14#
9	l2	1260-1		0.065	0.000	100.0#	0#	-2.69#
10	l2	1260-2		0.097	0.000	100.0#	0#	-2.82#
11	l2	1260-3		0.060	0.000	100.0#	0#	-3.13#
12	l2	1260-4		0.130	0.000	100.0#	0#	-3.29#
13	l2	1260-5		0.091	0.000	100.0#	0#	-3.44#
15	l3	1221-2		0.015	0.000	100.0#	0#	-1.51#
16	l3	1221-3		0.00895	0.00000	100.0#	0#	-1.57#
17	l3	1221-4		0.035	0.000	100.0#	0#	-1.58#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample   : cicv4268,42,,pp 11468
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18	l4	1254-1	0.050	0.000	100.0#	0#	-2.31#
19	l4	1254-2	0.090	0.000	100.0#	0#	-2.42#
20	l4	1254-3	0.095	0.000	100.0#	0#	-2.60#
21	l4	1254-4	0.067	0.000	100.0#	0#	-2.73#
22	l4	1254-5	0.091	0.000	100.0#	0#	-2.95#
35	l7	1248-1	0.057	0.000	100.0#	0#	-1.91#
36	l7	1248-2	0.074	0.000	100.0#	0#	-2.04#
37	l7	1248-3	0.065	0.000	100.0#	0#	-2.14#
38	l7	1248-4	0.058	0.000	100.0#	0#	-2.32#
39	l7	1248-5	0.050	0.000	100.0#	0#	-2.34#
41	l5	1232-1	0.026	0.000	100.0#	0#	-1.58#
42	l5	1232-2	0.024	0.000	100.0#	0#	-1.73#
43	l5	1232-3	0.050	0.000	100.0#	0#	-1.92#
44	l5	1232-4	0.020	0.000	100.0#	0#	-1.97#
45	l5	1232-5	0.015	0.000	100.0#	0#	-2.32#
46	l8	1262-1	0.070	0.000	100.0#	0#	-2.82#
47	l8	1262-2	0.091	0.000	100.0#	0#	-3.01#
48	l8	1262-3	0.079	0.000	100.0#	0#	-3.13#
49	l8	1262-4	0.160	0.000	100.0#	0#	-3.29#
50	l8	1262-5	0.050	0.000	100.0#	0#	-3.76#

Signal #2

4	l1	1016-1	0.021	0.000	100.0#	0#	-1.81#
5	l1	1016-2	0.046	0.000	100.0#	0#	-1.98#
6	l1	1016-3	0.092	0.000	100.0#	0#	-2.18#
7	l1	1016-4	0.034	0.000	100.0#	0#	-2.24#
8	l1	1016-5	0.029	0.000	100.0#	0#	-2.45#
9	l2	1260-1	0.054	0.000	100.0#	0#	-3.06#
10	l2	1260-2	0.062	0.000	100.0#	0#	-3.16#
11	l2	1260-3	0.048	0.000	100.0#	0#	-3.56#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample   : cicv4268,42,,pp 11468
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
12 l2	1260-4	0.096	0.000	100.0#	0#	-3.68#
13 l2	1260-5	0.066	0.000	100.0#	0#	-3.89#
15 l3	1221-2	0.015	0.000	100.0#	0#	-1.72#
16 l3	1221-3	0.00933	0.00000	100.0#	0#	-1.78#
17 l3	1221-4	0.034	0.000	100.0#	0#	-1.81#
18 l4	1254-1	0.046	0.000	100.0#	0#	-2.65#
19 l4	1254-2	0.052	0.000	100.0#	0#	-2.73#
20 l4	1254-3	0.078	0.000	100.0#	0#	-2.96#
21 l4	1254-4	0.048	0.000	100.0#	0#	-3.07#
22 l4	1254-5	0.071	0.000	100.0#	0#	-3.35#
35 l7	1248-1	0.052	0.000	100.0#	0#	-2.17#
36 l7	1248-2	0.034	0.000	100.0#	0#	-2.32#
37 l7	1248-3	0.043	0.000	100.0#	0#	-2.45#
38 l7	1248-4	0.048	0.000	100.0#	0#	-2.62#
39 l7	1248-5	0.054	0.000	100.0#	0#	-2.65#
41 l5	1232-1	0.025	0.000	100.0#	0#	-1.80#
42 l5	1232-2	0.025	0.000	100.0#	0#	-1.98#
43 l5	1232-3	0.045	0.000	100.0#	0#	-2.18#
44 l5	1232-4	0.018	0.000	100.0#	0#	-2.24#
45 l5	1232-5	0.013	0.000	100.0#	0#	-2.62#
46 l8	1262-1	0.049	0.000	100.0#	0#	-3.16#
47 l8	1262-2	0.065	0.000	100.0#	0#	-3.39#
48 l8	1262-3	0.059	0.000	100.0#	0#	-3.55#
49 l8	1262-4	0.110	0.000	100.0#	0#	-3.68#
50 l8	1262-5	0.039	0.000	100.0#	0#	-4.20#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample : cicv4268,42,,pp 11468
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.160	1.230	377.6E6	287.7E6	25.000M4	25.000
14) i	2154_1br2nb	1.160	1.230	377.6E6	287.7E6	25.000M4	25.000
23) i	4268_1br2nb	1.160	1.230	377.6E6	287.7E6	25.000M4	25.000
34) i	1248_1br2nb	1.160	1.230	377.6E6	287.7E6	25.000M4	25.000
40) i	3262_1br2nb	1.160	1.230	377.6E6	287.7E6	25.000M4	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.446	1.605	344.8E6	241.7E6	17.413M3	17.048
	Spiked Amount	20.000	Range 30 - 150		Recovery =	87.06%	85.24%
3) s	Decachlorobi	4.022	4.535	783.1E6	382.4E6	61.211	57.275
	Spiked Amount	20.000	Range 30 - 150		Recovery =	306.06%#	286.38%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample : cicv4268,42,,pp 11468
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	1.586	1.807	75468361	53100596	267.907	264.555
25) l6	1242-2	1.728	1.978	164.8E6	119.6E6	271.401	273.942
26) l6	1242-3	1.917	2.179	351.7E6	233.7E6	268.799	279.373
27) l6	1242-4	1.972	2.239	140.3E6	93849056	267.894M3	278.888
28) l6	1242-5	2.325	2.626	114.8E6	68908851	281.749	274.508
Sum	1242-1			847.0E6	569.2E6	1357.749	1371.266
Average	1242-1					271.550	274.253
29) l9	1268-1	3.453	3.880	794.0E6	427.1E6	291.052	312.719M4
30) l9	1268-2	3.474	3.906	715.4E6	378.4E6	284.372	299.523M4
31) l9	1268-3	3.576	4.048	529.1E6	286.9E6	263.733	277.288M4
32) l9	1268-4	3.764	4.201	225.4E6	126.4E6	255.990	281.014M4

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample : cicv4268,42,,pp 11468
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound		RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
33) l9	1268-5	3.918	4.386	1486.1E6	746.4E6	250.706	264.852M4
Sum	1268-1			3750.0E6	1965.2E6	1345.852	1435.397
Average	1268-1					269.170	287.079
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample : cicv4268,42,,pp 11468
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1262-1					0.000	0.000

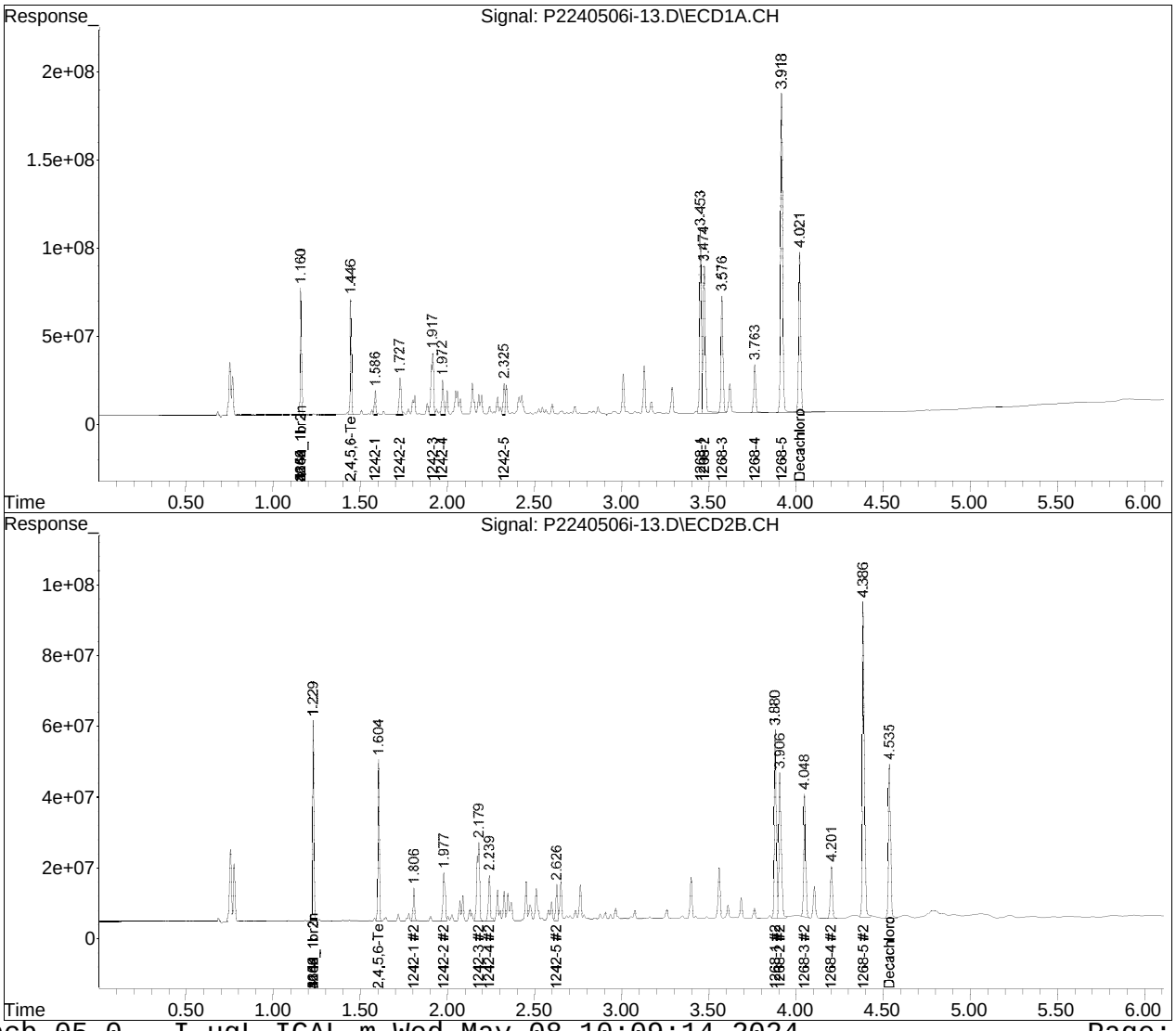
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample : cicv4268,42,,pp 11468
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

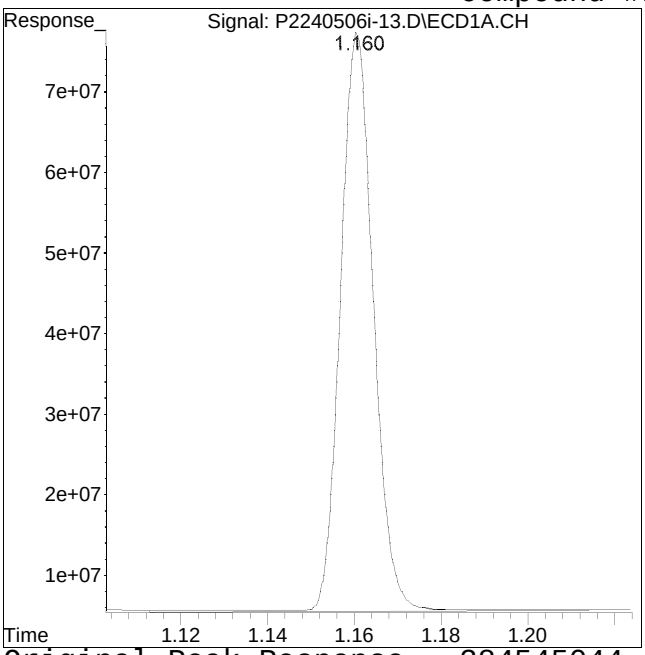
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



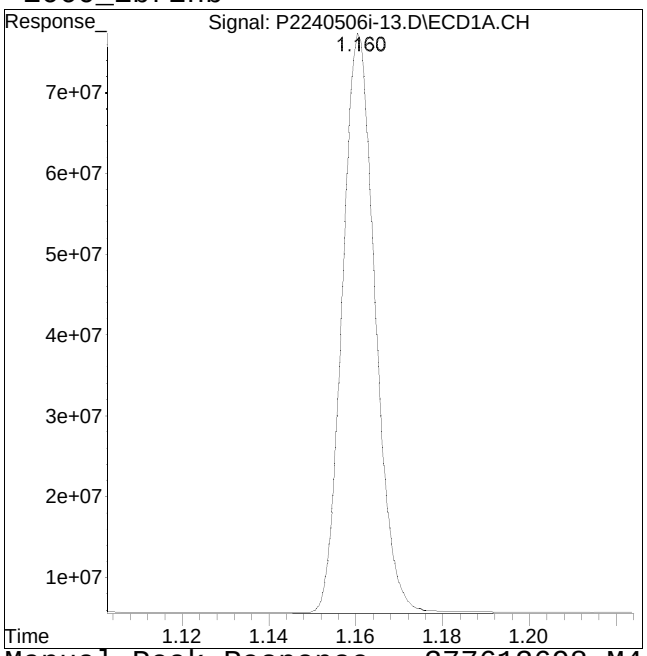
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #1: 1660_1br2nb



Original Peak Response = 384545044



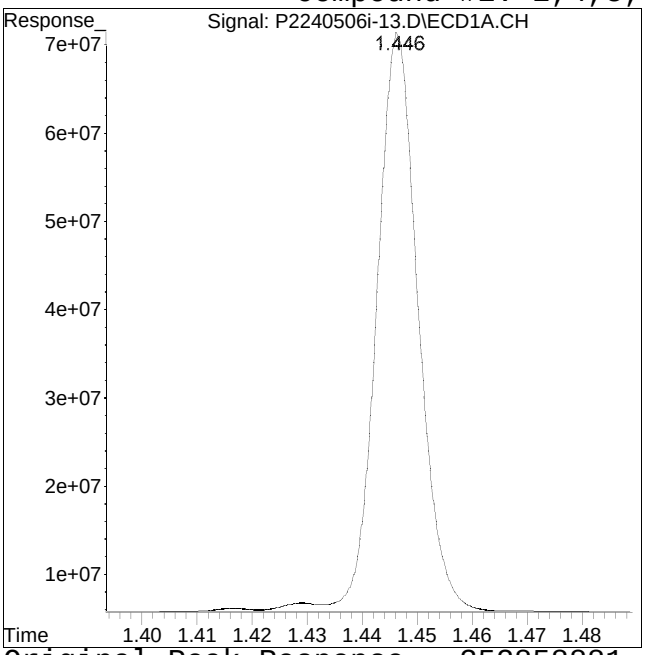
Manual Peak Response = 377613698 M4

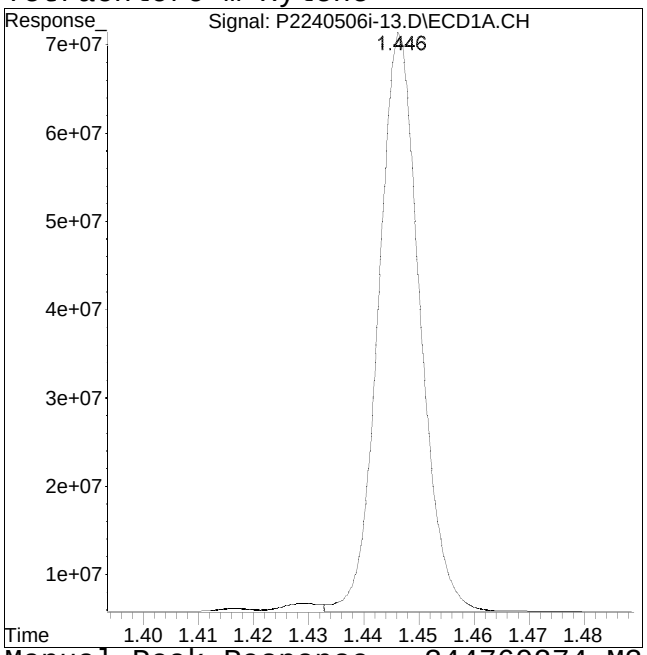
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



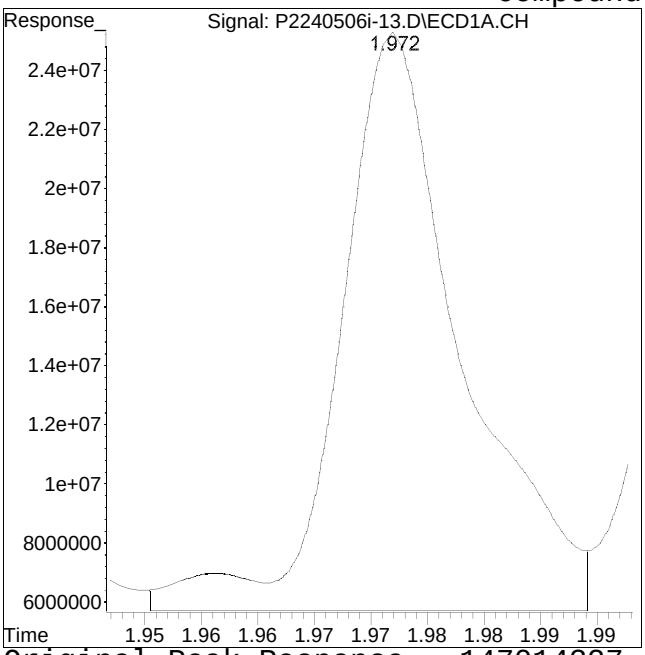


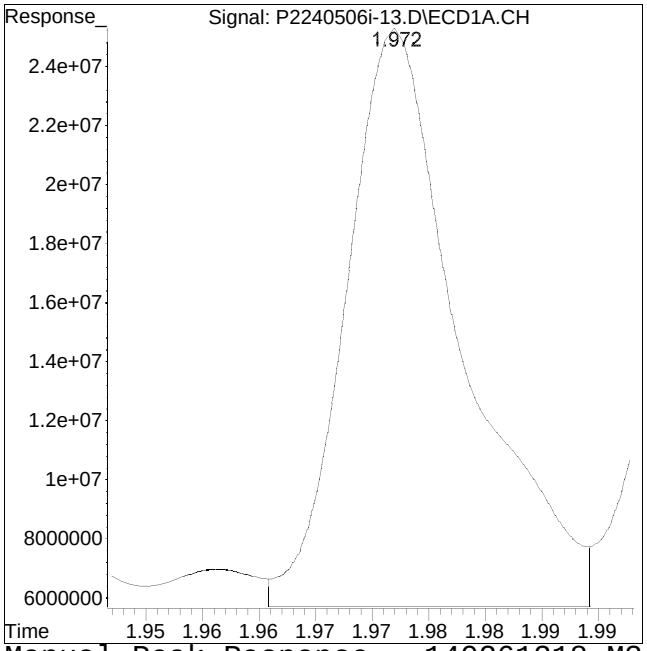
Original Peak Response = 352858881 Manual Peak Response = 344760274 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #27: 1242-4



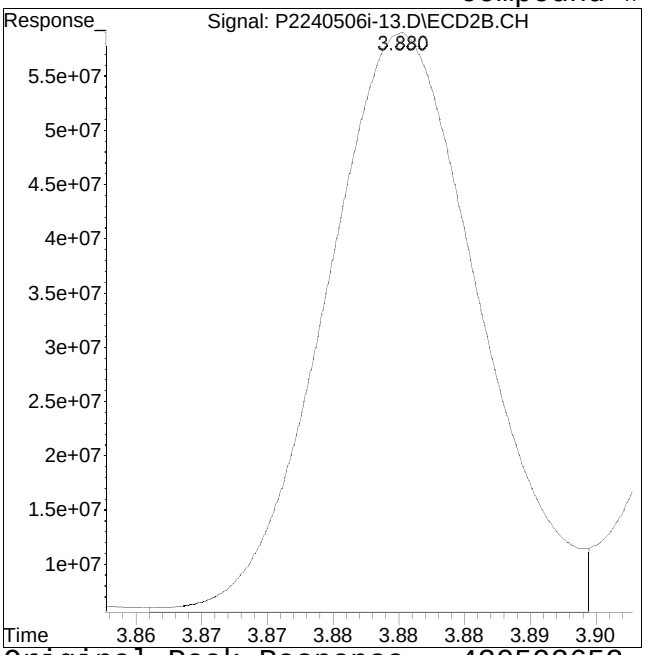


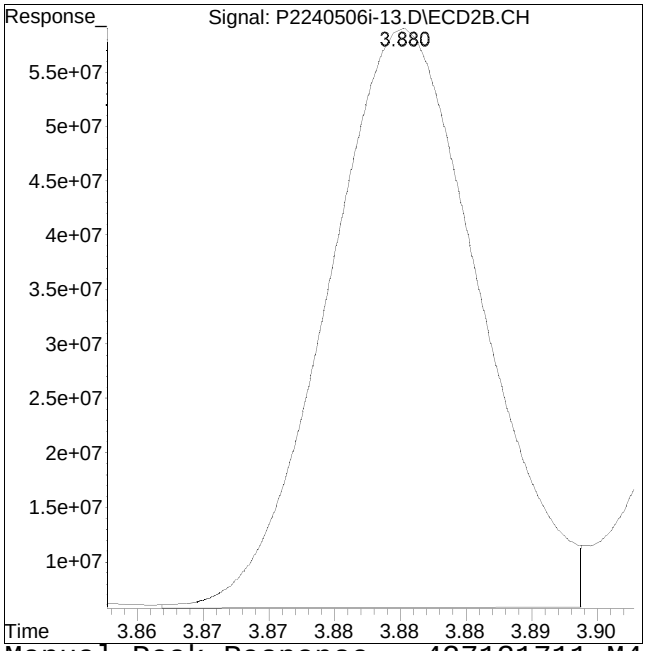
Original Peak Response = 147014327 Manual Peak Response = 140261218 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #80: 1268-1 #2



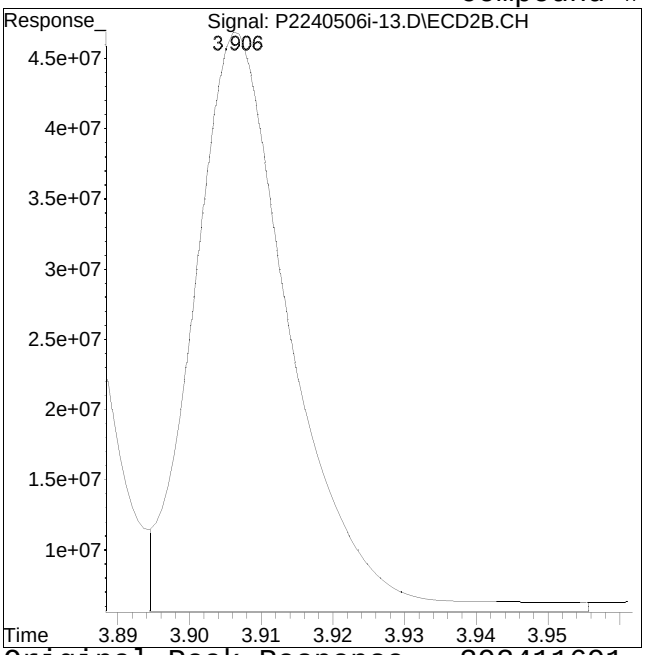


Original Peak Response = 430592652 Manual Peak Response = 427131711 M4
M4 = Poor automated baseline construction.

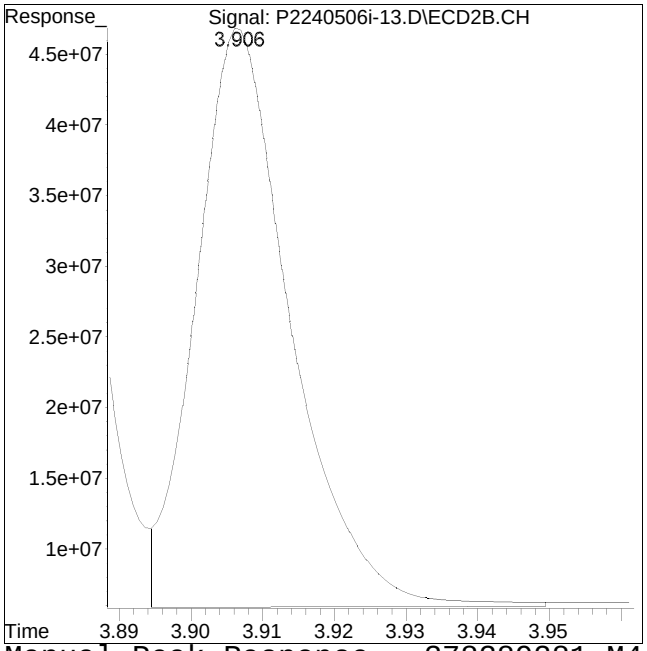
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #81: 1268-2 #2



Original Peak Response = 392411691



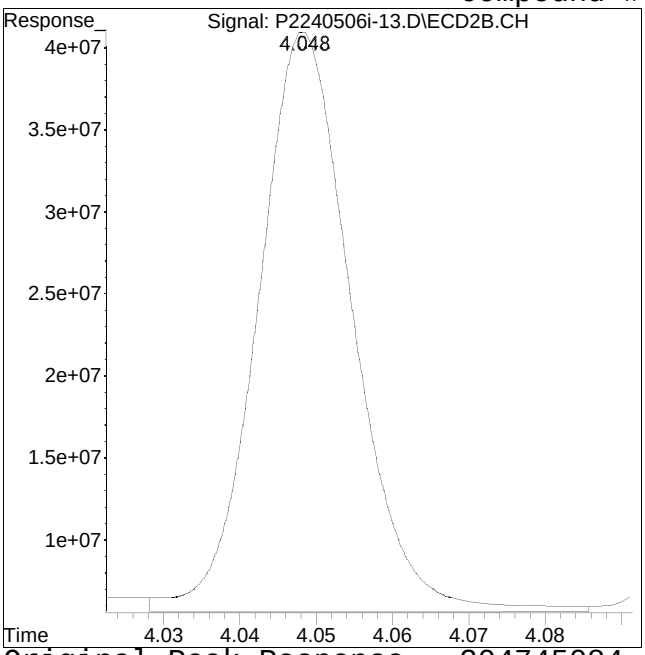
Manual Peak Response = 378389281 M4

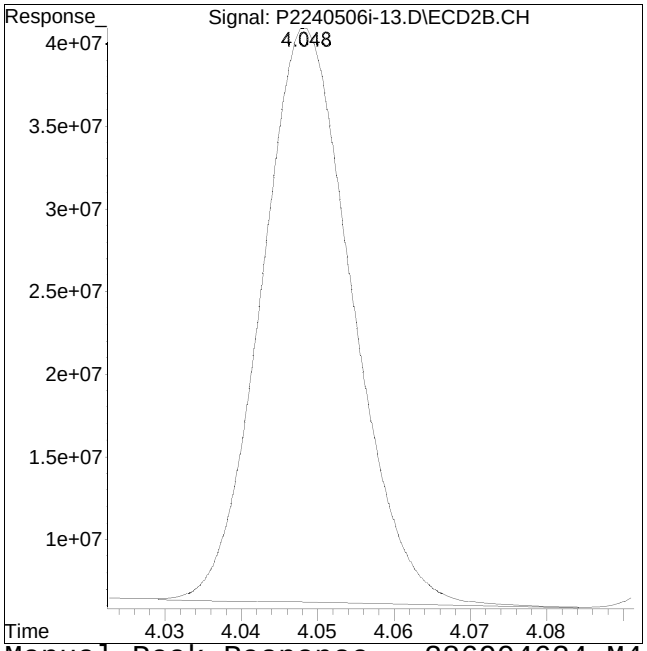
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #82: 1268-3 #2



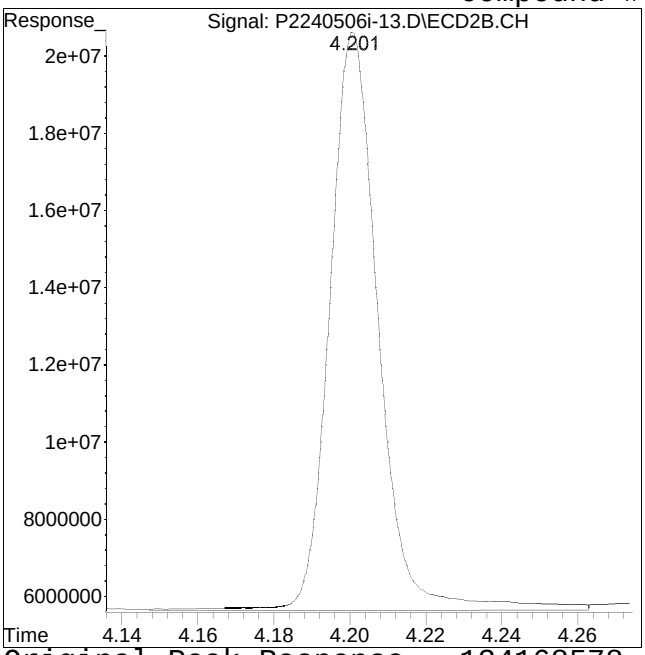


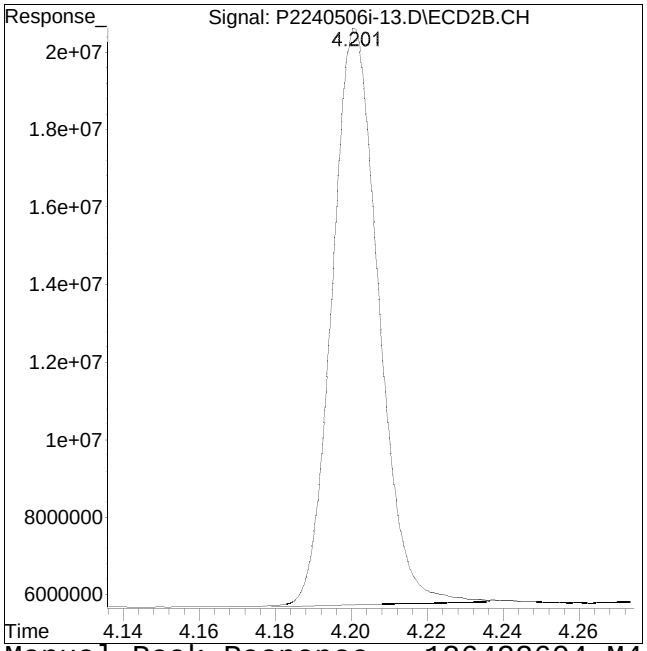
Original Peak Response = 304745084 Manual Peak Response = 286904624 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #83: 1268-4 #2



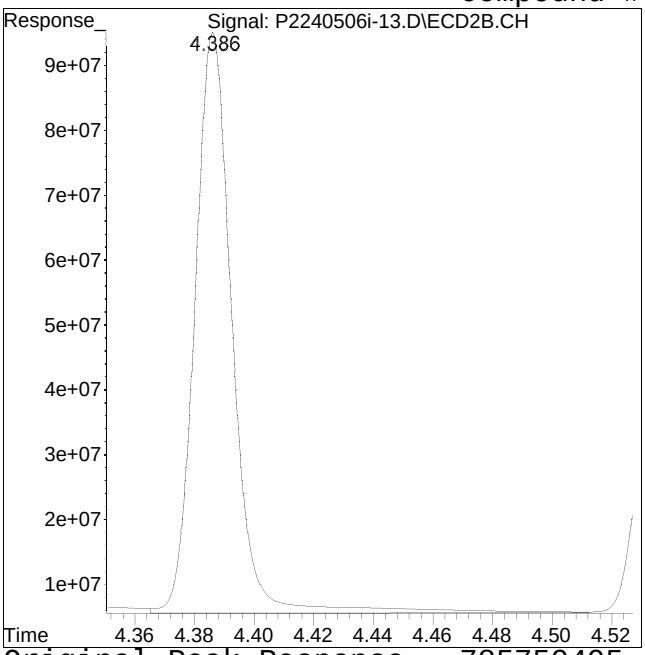


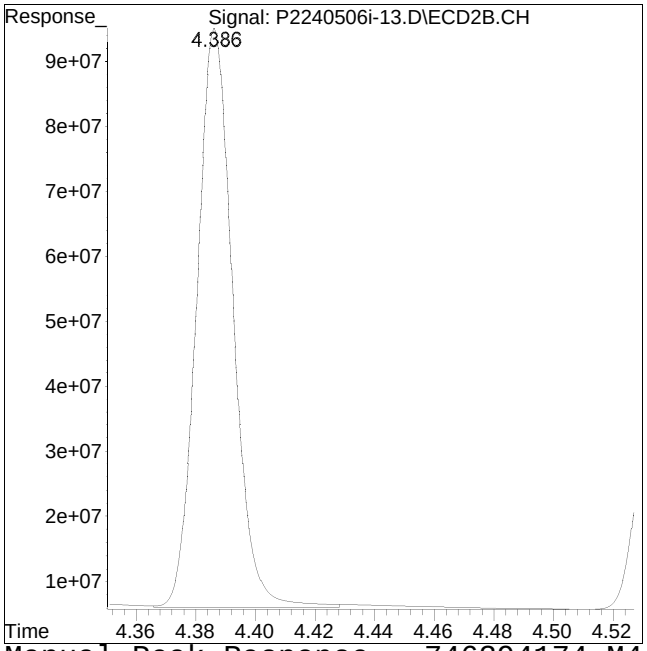
Original Peak Response = 134168578 Manual Peak Response = 126422604 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #84: 1268-5 #2





Original Peak Response = 785750495 Manual Peak Response = 746394174 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample   : cicv3262,42,,pp 11467
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	86	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.359	-3.7	71	0.00
3	s	Decachlorobiphenyl		0.847	0.985	-16.3	82	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	95	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	96	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	91	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	95	0.00
41	l5	1232-1		0.026	0.028	-7.7	101	0.00
42	l5	1232-2		0.024	0.023	4.2	91	0.00
43	l5	1232-3		0.050	0.048	4.0	91	0.00
44	l5	1232-4		0.020	0.020	0.0	93	0.00
45	l5	1232-5		0.015	0.014	6.7	92	0.00
46	l8	1262-1		0.070	0.072	-2.9	97	0.00
47	l8	1262-2		0.091	0.091	0.0	95	0.00
48	l8	1262-3		0.079	0.078	1.3	94	0.00
49	l8	1262-4		0.160	0.154	3.8	91	0.00
50	l8	1262-5		0.050	0.049	2.0	94	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	91	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.232	1.231	0.1	73	0.00
3	s	Decachlorobiphenyl		0.580	0.649	-11.9	86	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	103	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample   : cicv3262,42,,pp 11467
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
23	i	4268_1br2nb	^	1.000	1.000	0.0	101	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	97	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	104	0.00
41	l5	1232-1		0.025	0.026	-4.0	108	0.00
42	l5	1232-2		0.025	0.024	4.0	100	0.00
43	l5	1232-3		0.045	0.043	4.4	99	0.00
44	l5	1232-4		0.018	0.017	5.6	100	0.00
45	l5	1232-5		0.013	0.011	15.4	91	0.00
46	l8	1262-1		0.049	0.047	4.1	99	0.00
47	l8	1262-2		0.065	0.062	4.6	99	0.00
48	l8	1262-3		0.059	0.057	3.4	100	0.00
49	l8	1262-4		0.110	0.105	4.5	99	0.00
50	l8	1262-5		0.039	0.039	0.0	104	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.022	0.000	100.0#	0#	-1.59#
5	l1	1016-2		0.049	0.000	100.0#	0#	-1.73#
6	l1	1016-3		0.101	0.000	100.0#	0#	-1.92#
7	l1	1016-4		0.040	0.000	100.0#	0#	-1.97#
8	l1	1016-5		0.045	0.000	100.0#	0#	-2.14#
9	l2	1260-1		0.065	0.000	100.0#	0#	-2.69#
10	l2	1260-2		0.097	0.000	100.0#	0#	-2.82#
11	l2	1260-3		0.060	0.000	100.0#	0#	-3.13#
12	l2	1260-4		0.130	0.000	100.0#	0#	-3.29#
13	l2	1260-5		0.091	0.000	100.0#	0#	-3.44#
15	l3	1221-2		0.015	0.000	100.0#	0#	-1.51#
16	l3	1221-3		0.00895	0.00000	100.0#	0#	-1.57#
17	l3	1221-4		0.035	0.000	100.0#	0#	-1.58#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample   : cicv3262,42,,pp 11467
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18 l4	1254-1	0.050	0.000	100.0#	0#	-2.31#
19 l4	1254-2	0.090	0.000	100.0#	0#	-2.42#
20 l4	1254-3	0.095	0.000	100.0#	0#	-2.60#
21 l4	1254-4	0.067	0.000	100.0#	0#	-2.73#
22 l4	1254-5	0.091	0.000	100.0#	0#	-2.95#
24 l6	1242-1	0.019	0.000	100.0#	0#	-1.58#
25 l6	1242-2	0.040	0.000	100.0#	0#	-1.73#
26 l6	1242-3	0.087	0.000	100.0#	0#	-1.91#
27 l6	1242-4	0.035	0.000	100.0#	0#	-1.97#
28 l6	1242-5	0.027	0.000	100.0#	0#	-2.32#
29 l9	1268-1	0.181	0.000	100.0#	0#	-3.45#
30 l9	1268-2	0.167	0.000	100.0#	0#	-3.47#
31 l9	1268-3	0.133	0.000	100.0#	0#	-3.57#
32 l9	1268-4	0.058	0.000	100.0#	0#	-3.76#
33 l9	1268-5	0.392	0.000	100.0#	0#	-3.92#
35 l7	1248-1	0.057	0.000	100.0#	0#	-1.91#
36 l7	1248-2	0.074	0.000	100.0#	0#	-2.04#
37 l7	1248-3	0.065	0.000	100.0#	0#	-2.14#
38 l7	1248-4	0.058	0.000	100.0#	0#	-2.32#
39 l7	1248-5	0.050	0.000	100.0#	0#	-2.34#

Signal #2

4 l1	1016-1	0.021	0.000	100.0#	0#	-1.81#
5 l1	1016-2	0.046	0.000	100.0#	0#	-1.98#
6 l1	1016-3	0.092	0.000	100.0#	0#	-2.18#
7 l1	1016-4	0.034	0.000	100.0#	0#	-2.24#
8 l1	1016-5	0.029	0.000	100.0#	0#	-2.45#
9 l2	1260-1	0.054	0.000	100.0#	0#	-3.06#
10 l2	1260-2	0.062	0.000	100.0#	0#	-3.16#
11 l2	1260-3	0.048	0.000	100.0#	0#	-3.56#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample   : cicv3262,42,,pp 11467
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
12 l2	1260-4	0.096	0.000	100.0#	0#	-3.68#
13 l2	1260-5	0.066	0.000	100.0#	0#	-3.89#
15 l3	1221-2	0.015	0.000	100.0#	0#	-1.72#
16 l3	1221-3	0.00933	0.00000	100.0#	0#	-1.78#
17 l3	1221-4	0.034	0.000	100.0#	0#	-1.81#
18 l4	1254-1	0.046	0.000	100.0#	0#	-2.65#
19 l4	1254-2	0.052	0.000	100.0#	0#	-2.73#
20 l4	1254-3	0.078	0.000	100.0#	0#	-2.96#
21 l4	1254-4	0.048	0.000	100.0#	0#	-3.07#
22 l4	1254-5	0.071	0.000	100.0#	0#	-3.35#
24 l6	1242-1	0.017	0.000	100.0#	0#	-1.80#
25 l6	1242-2	0.038	0.000	100.0#	0#	-1.97#
26 l6	1242-3	0.073	0.000	100.0#	0#	-2.18#
27 l6	1242-4	0.029	0.000	100.0#	0#	-2.24#
28 l6	1242-5	0.022	0.000	100.0#	0#	-2.62#
29 l9	1268-1	0.119	0.000	100.0#	0#	-3.88#
30 l9	1268-2	0.110	0.000	100.0#	0#	-3.90#
31 l9	1268-3	0.090	0.000	100.0#	0#	-4.05#
32 l9	1268-4	0.039	0.000	100.0#	0#	-4.20#
33 l9	1268-5	0.245	0.000	100.0#	0#	-4.38#
35 l7	1248-1	0.052	0.000	100.0#	0#	-2.17#
36 l7	1248-2	0.034	0.000	100.0#	0#	-2.32#
37 l7	1248-3	0.043	0.000	100.0#	0#	-2.45#
38 l7	1248-4	0.048	0.000	100.0#	0#	-2.62#
39 l7	1248-5	0.054	0.000	100.0#	0#	-2.65#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample : cicv3262,42,,pp 11467
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.161	1.230	360.6E6	281.6E6	25.000	25.000
14) i	2154_1br2nb	1.161	1.230	360.6E6	281.6E6	25.000	25.000
23) i	4268_1br2nb	1.161	1.230	360.6E6	281.6E6	25.000	25.000
34) i	1248_1br2nb	1.161	1.230	360.6E6	281.6E6	25.000	25.000
40) i	3262_1br2nb	1.161	1.230	360.6E6	281.6E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.447	1.605	313.7E6	221.8E6	16.592M3	15.985
	Spiked Amount 20.000	Range 30 - 150		Recovery =		82.96%	79.92%
3) s	Decachlorobi	4.023	4.536	454.7E6	233.8E6	37.216	35.778
	Spiked Amount 20.000	Range 30 - 150		Recovery =		186.08%#	178.89%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample : cicv3262,42,,pp 11467
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample : cicv3262,42,,pp 11467
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	1.587	1.806	100.3E6	72884282	266.130	260.213M4
42) l5	1232-2	1.729	1.978	82707706	67314394	238.896	241.942
43) l5	1232-3	1.918	2.180	173.9E6	120.8E6	240.092	239.618
44) l5	1232-4	1.973	2.240	71566461	48899768	243.151	239.904
45) l5	1232-5	2.327	2.627	51913229	32015172	240.426	218.810
Sum	1232-1			480.3E6	341.9E6	1228.696	1200.487
Average	1232-1					245.739	240.097
46) l8	1262-1	2.818	3.163	258.8E6	131.1E6	254.785	239.557
47) l8	1262-2	3.010	3.397	327.2E6	174.2E6	250.297	237.637
48) l8	1262-3	3.134	3.556	281.9E6	159.6E6	246.303	240.220
49) l8	1262-4	3.290	3.685	554.6E6	296.5E6	240.099	239.507
50) l8	1262-5	3.765	4.202	176.8E6	109.5E6	246.126M4	250.504
Sum	1262-1			1599.3E6	870.9E6	1237.610	1207.425
Average	1262-1					247.522	241.485

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			1599.3E6	870.9E6	1237.610	1207.425
Average	1262-1					247.522	241.485

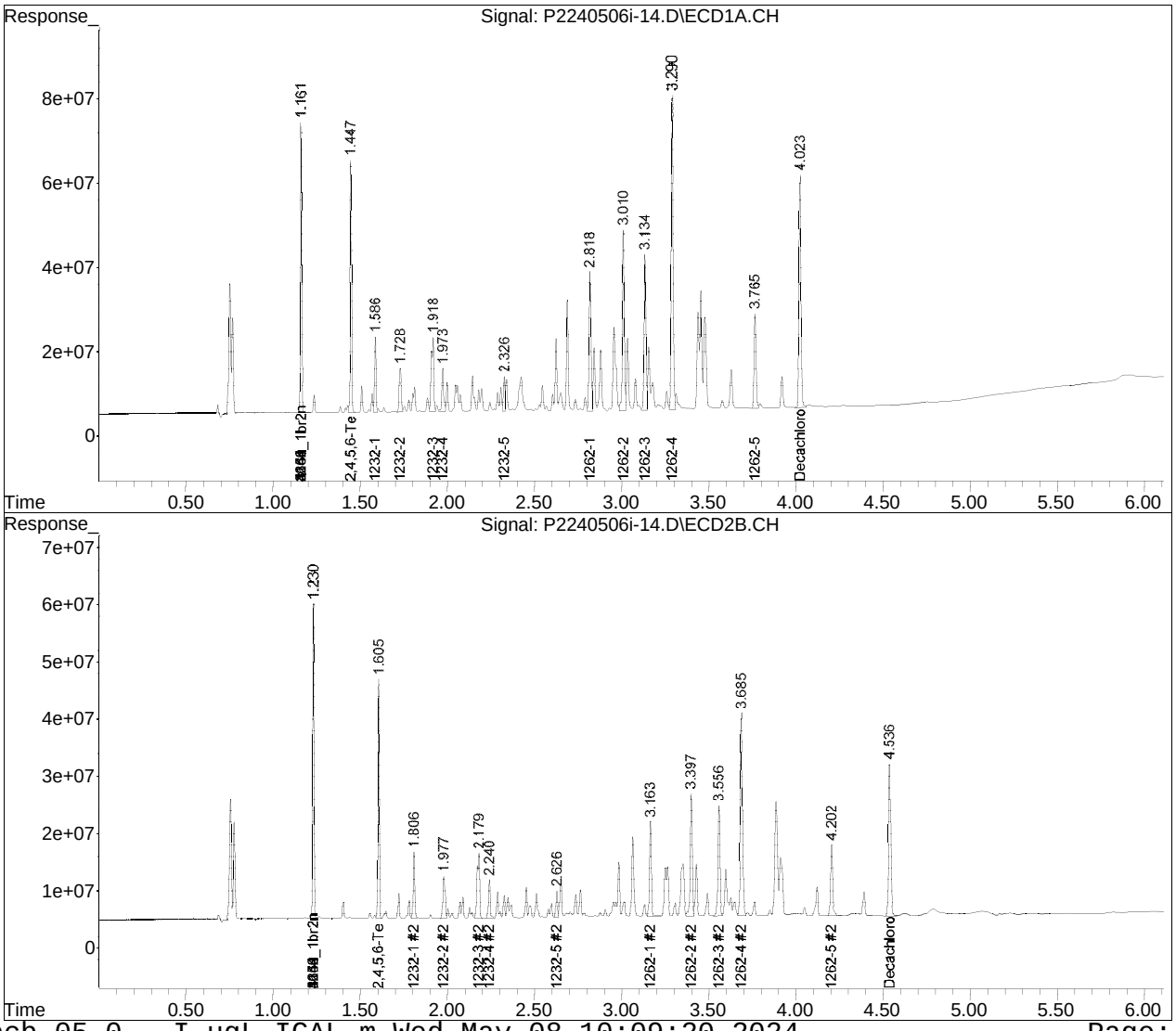
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample : cicv3262,42,,pp 11467
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

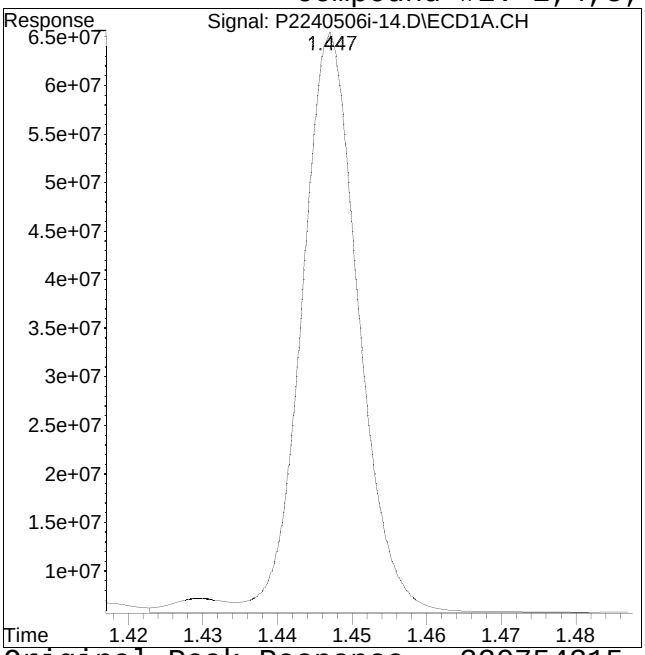
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

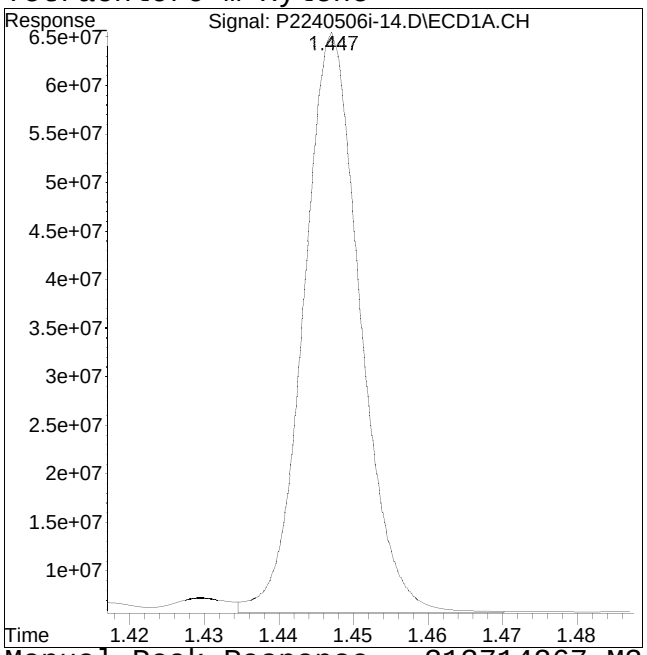


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-14.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:33 pm Instrument : Pest 2
Sample : cicv3262,42,,pp 11467 Quant Date : 5/7/2024 4:45 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



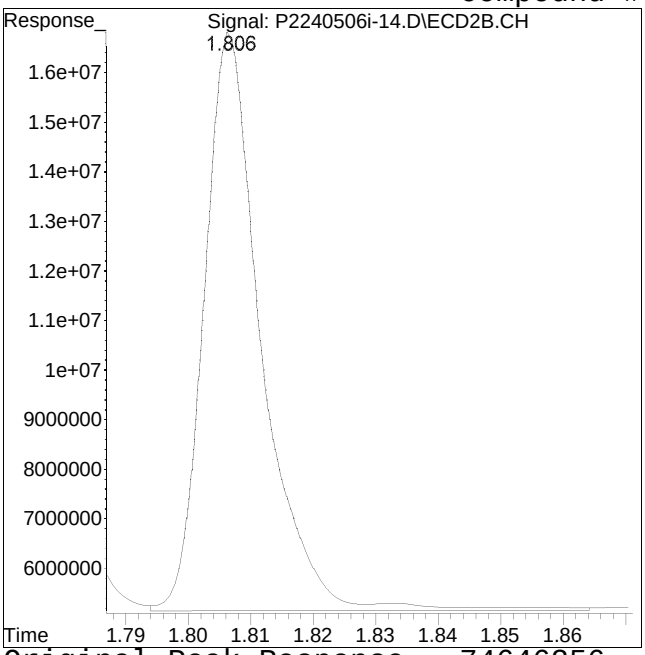


Original Peak Response = 320754315 Manual Peak Response = 313714267 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

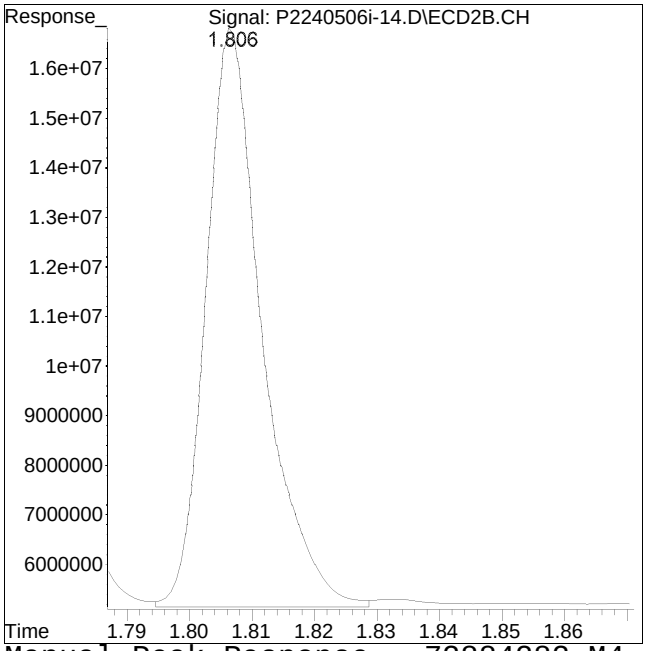
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-14.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:33 pm Instrument : Pest 2
Sample : cicv3262,42,,pp 11467 Quant Date : 5/7/2024 4:45 pm

Compound #92: 1232-1 #2



Original Peak Response = 74646256



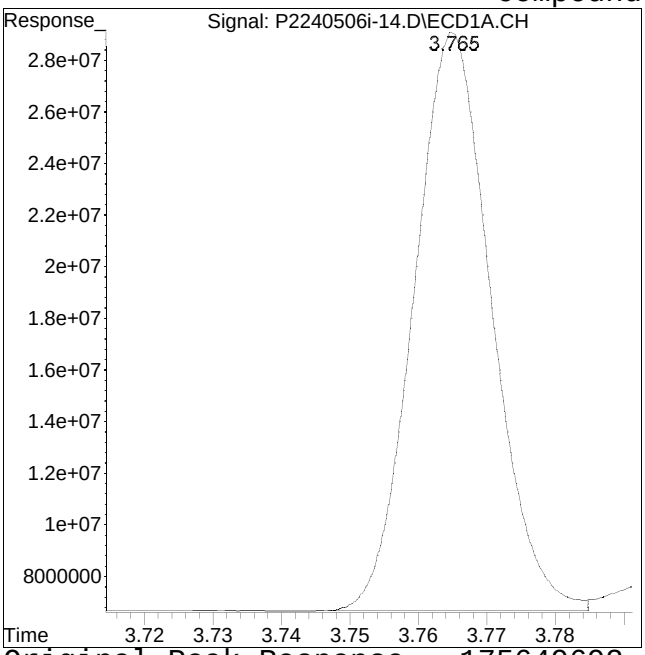
Manual Peak Response = 72884282 M4

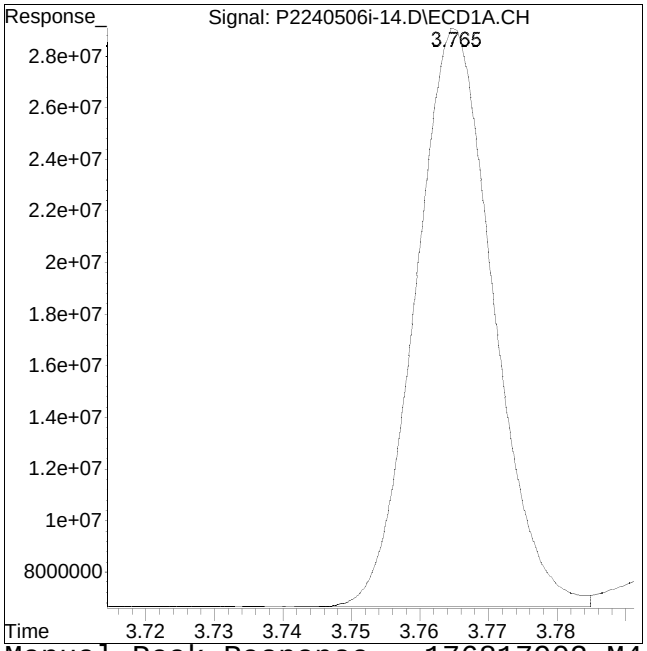
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-14.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:33 pm Instrument : Pest 2
Sample : cicv3262,42,,pp 11467 Quant Date : 5/7/2024 4:45 pm

Compound #50: 1262-5





Original Peak Response = 175649692 Manual Peak Response = 176817902 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample   : cicv1248,42,,pp 11461
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	94	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.298	1.0	74	0.00
3	s	Decachlorobiphenyl		0.847	0.986	-16.4	90	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	104	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	105	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	100	0.00
35	l7	1248-1		0.057	0.060	-5.3	105	0.01
36	l7	1248-2		0.074	0.065	12.2	89	0.00
37	l7	1248-3		0.065	0.059	9.2	90	0.00
38	l7	1248-4		0.058	0.052	10.3	90	0.00
39	l7	1248-5		0.050	0.051	-2.0	101	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	104	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	95	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.232	1.222	0.8	75	0.00
3	s	Decachlorobiphenyl		0.580	0.675	-16.4	93	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	107	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	105	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	101	0.00
35	l7	1248-1		0.052	0.056	-7.7	109	0.01
36	l7	1248-2		0.034	0.032	5.9	93	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample   : cicv1248,42,,pp 11461
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
37	l7	1248-3		0.043	0.040	7.0	92	0.00
38	l7	1248-4		0.048	0.044	8.3	92	0.00
39	l7	1248-5		0.054	0.052	3.7	96	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	108	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.022	0.000	100.0#	0#	-1.59#
5	l1	1016-2		0.049	0.000	100.0#	0#	-1.73#
6	l1	1016-3		0.101	0.000	100.0#	0#	-1.92#
7	l1	1016-4		0.040	0.000	100.0#	0#	-1.97#
8	l1	1016-5		0.045	0.000	100.0#	0#	-2.14#
9	l2	1260-1		0.065	0.000	100.0#	0#	-2.69#
10	l2	1260-2		0.097	0.000	100.0#	0#	-2.82#
11	l2	1260-3		0.060	0.000	100.0#	0#	-3.13#
12	l2	1260-4		0.130	0.000	100.0#	0#	-3.29#
13	l2	1260-5		0.091	0.000	100.0#	0#	-3.44#
15	l3	1221-2		0.015	0.000	100.0#	0#	-1.51#
16	l3	1221-3		0.00895	0.00000	100.0#	0#	-1.57#
17	l3	1221-4		0.035	0.000	100.0#	0#	-1.58#
18	l4	1254-1		0.050	0.000	100.0#	0#	-2.31#
19	l4	1254-2		0.090	0.000	100.0#	0#	-2.42#
20	l4	1254-3		0.095	0.000	100.0#	0#	-2.60#
21	l4	1254-4		0.067	0.000	100.0#	0#	-2.73#
22	l4	1254-5		0.091	0.000	100.0#	0#	-2.95#
24	l6	1242-1		0.019	0.000	100.0#	0#	-1.58#
25	l6	1242-2		0.040	0.000	100.0#	0#	-1.73#
26	l6	1242-3		0.087	0.000	100.0#	0#	-1.91#
27	l6	1242-4		0.035	0.000	100.0#	0#	-1.97#
28	l6	1242-5		0.027	0.000	100.0#	0#	-2.32#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample   : cicv1248,42,,pp 11461
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
29	l9	1268-1	0.181	0.000	100.0#	0#	-3.45#
30	l9	1268-2	0.167	0.000	100.0#	0#	-3.47#
31	l9	1268-3	0.133	0.000	100.0#	0#	-3.57#
32	l9	1268-4	0.058	0.000	100.0#	0#	-3.76#
33	l9	1268-5	0.392	0.000	100.0#	0#	-3.92#
41	l5	1232-1	0.026	0.000	100.0#	0#	-1.58#
42	l5	1232-2	0.024	0.000	100.0#	0#	-1.73#
43	l5	1232-3	0.050	0.000	100.0#	0#	-1.92#
44	l5	1232-4	0.020	0.000	100.0#	0#	-1.97#
45	l5	1232-5	0.015	0.000	100.0#	0#	-2.32#
46	l8	1262-1	0.070	0.000	100.0#	0#	-2.82#
47	l8	1262-2	0.091	0.000	100.0#	0#	-3.01#
48	l8	1262-3	0.079	0.000	100.0#	0#	-3.13#
49	l8	1262-4	0.160	0.000	100.0#	0#	-3.29#
50	l8	1262-5	0.050	0.000	100.0#	0#	-3.76#
Signal #2							
4	l1	1016-1	0.021	0.000	100.0#	0#	-1.81#
5	l1	1016-2	0.046	0.000	100.0#	0#	-1.98#
6	l1	1016-3	0.092	0.000	100.0#	0#	-2.18#
7	l1	1016-4	0.034	0.000	100.0#	0#	-2.24#
8	l1	1016-5	0.029	0.000	100.0#	0#	-2.45#
9	l2	1260-1	0.054	0.000	100.0#	0#	-3.06#
10	l2	1260-2	0.062	0.000	100.0#	0#	-3.16#
11	l2	1260-3	0.048	0.000	100.0#	0#	-3.56#
12	l2	1260-4	0.096	0.000	100.0#	0#	-3.68#
13	l2	1260-5	0.066	0.000	100.0#	0#	-3.89#
15	l3	1221-2	0.015	0.000	100.0#	0#	-1.72#
16	l3	1221-3	0.00933	0.00000	100.0#	0#	-1.78#
17	l3	1221-4	0.034	0.000	100.0#	0#	-1.81#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample   : cicv1248,42,,pp 11461
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18 l4	1254-1	0.046	0.000	100.0#	0#	-2.65#
19 l4	1254-2	0.052	0.000	100.0#	0#	-2.73#
20 l4	1254-3	0.078	0.000	100.0#	0#	-2.96#
21 l4	1254-4	0.048	0.000	100.0#	0#	-3.07#
22 l4	1254-5	0.071	0.000	100.0#	0#	-3.35#
24 l6	1242-1	0.017	0.000	100.0#	0#	-1.80#
25 l6	1242-2	0.038	0.000	100.0#	0#	-1.97#
26 l6	1242-3	0.073	0.000	100.0#	0#	-2.18#
27 l6	1242-4	0.029	0.000	100.0#	0#	-2.24#
28 l6	1242-5	0.022	0.000	100.0#	0#	-2.62#
29 l9	1268-1	0.119	0.000	100.0#	0#	-3.88#
30 l9	1268-2	0.110	0.000	100.0#	0#	-3.90#
31 l9	1268-3	0.090	0.000	100.0#	0#	-4.05#
32 l9	1268-4	0.039	0.000	100.0#	0#	-4.20#
33 l9	1268-5	0.245	0.000	100.0#	0#	-4.38#
41 l5	1232-1	0.025	0.000	100.0#	0#	-1.80#
42 l5	1232-2	0.025	0.000	100.0#	0#	-1.98#
43 l5	1232-3	0.045	0.000	100.0#	0#	-2.18#
44 l5	1232-4	0.018	0.000	100.0#	0#	-2.24#
45 l5	1232-5	0.013	0.000	100.0#	0#	-2.62#
46 l8	1262-1	0.049	0.000	100.0#	0#	-3.16#
47 l8	1262-2	0.065	0.000	100.0#	0#	-3.39#
48 l8	1262-3	0.059	0.000	100.0#	0#	-3.55#
49 l8	1262-4	0.110	0.000	100.0#	0#	-3.68#
50 l8	1262-5	0.039	0.000	100.0#	0#	-4.20#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample : cicv1248,42,,pp 11461
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.162	1.230	394.7E6	292.1E6	25.000	25.000
14) i	2154_1br2nb	1.162	1.230	394.7E6	292.1E6	25.000	25.000
23) i	4268_1br2nb	1.162	1.230	394.7E6	292.1E6	25.000	25.000
34) i	1248_1br2nb	1.162	1.230	394.7E6	292.1E6	25.000	25.000
40) i	3262_1br2nb	1.162	1.230	394.7E6	292.1E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.447	1.605	327.8E6	228.4E6	15.843	15.872
	Spiked Amount 20.000	Range 30 - 150		Recovery =		79.22%	79.36%
3) s	Decachlorobi	4.022	4.537	498.3E6	252.5E6	37.269	37.259
	Spiked Amount 20.000	Range 30 - 150		Recovery =		186.34%#	186.30%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample : cicv1248,42,,pp 11461
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	1.918	2.179	237.0E6	165.0E6	263.140	271.725
36) l7	1248-2	2.047	2.325	258.1E6	92555766	222.123M1	230.259
37) l7	1248-3	2.144	2.451	232.7E6	115.4E6	226.522	228.395
38) l7	1248-4	2.326	2.626	206.5E6	127.5E6	225.373	229.278
39) l7	1248-5	2.339	2.650	201.3E6	150.8E6	253.464	237.742

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample : cicv1248,42,,pp 11461
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			1135.7E6	651.2E6	1190.621	1197.399
Average	1248-1					238.124	239.480
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

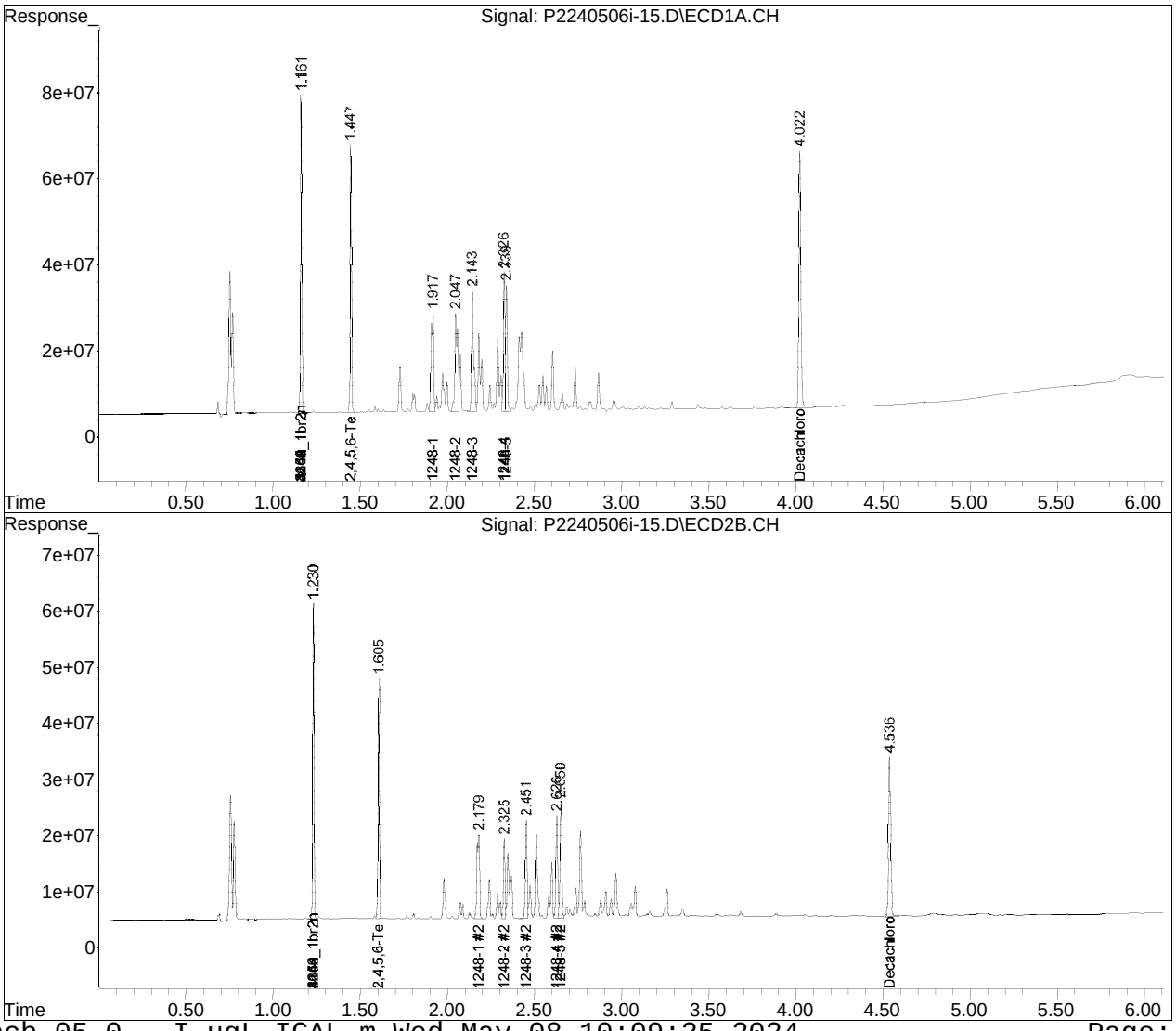
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample : cicv1248,42,,pp 11461
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

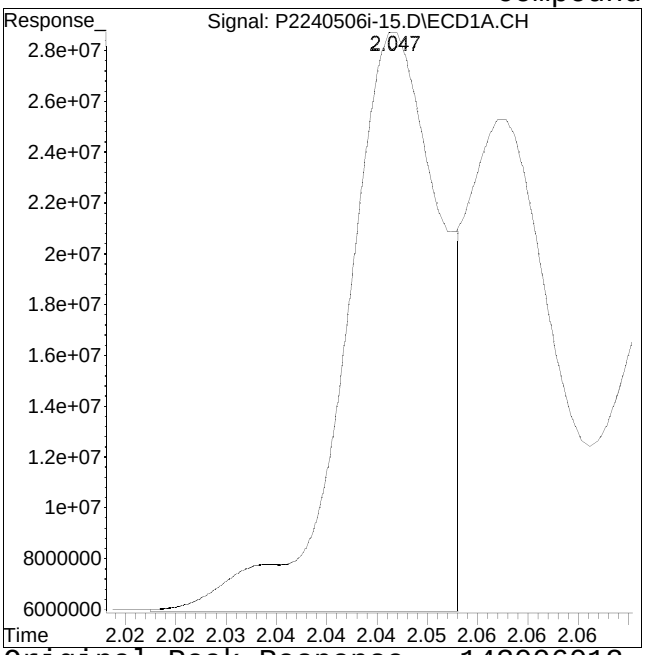
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

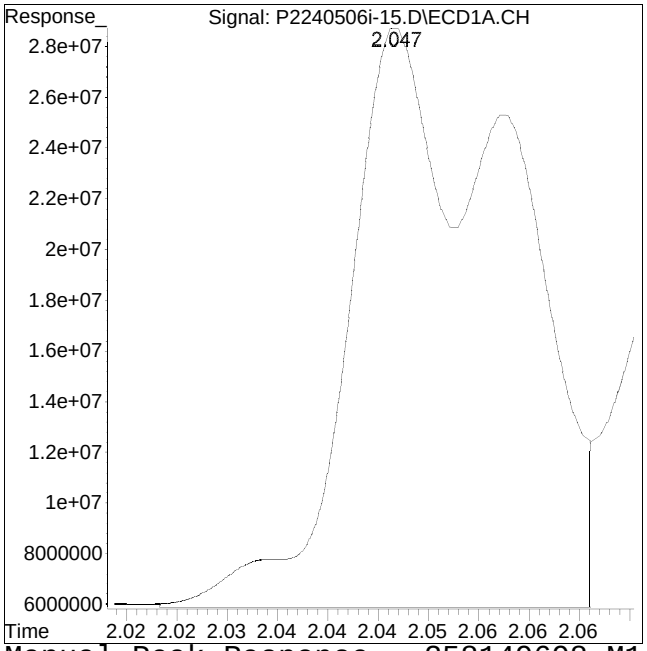


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-15.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:42 pm Instrument : Pest 2
Sample : cicv1248,42,,pp 11461 Quant Date : 5/7/2024 4:44 pm

Compound #36: 1248-2





Original Peak Response = 143006012 Manual Peak Response = 258149698 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample   : cicv2154,42,,pp 11460
Misc   : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	98	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.178	10.1	70	0.00
3	s	Decachlorobiphenyl		0.847	0.861	-1.7	82	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	107	0.00
15	l3	1221-2		0.015	0.012	20.0	87	0.00
16	l3	1221-3		0.00895	0.00709	20.8#	85	0.00
17	l3	1221-4		0.035	0.028	20.0#	87	0.00
18	l4	1254-1		0.050	0.044	12.0	93	0.00
19	l4	1254-2		0.090	0.080	11.1	96	0.00
20	l4	1254-3		0.095	0.085	10.5	96	0.00
21	l4	1254-4		0.067	0.059	11.9	95	0.00
22	l4	1254-5		0.091	0.077	15.4	90	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	109	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	103	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	108	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	98	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.232	1.119	9.2	71	0.00
3	s	Decachlorobiphenyl		0.580	0.612	-5.5	87	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	111	0.00
15	l3	1221-2		0.015	0.012	20.0	88	0.00
16	l3	1221-3		0.00933	0.00756	19.0	90	0.00
17	l3	1221-4		0.034	0.028	17.6	91	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample   : cicv2154,42,,pp 11460
Misc   : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
18	l4	1254-1		0.046	0.042	8.7	101	0.00
19	l4	1254-2		0.052	0.047	9.6	100	0.00
20	l4	1254-3		0.078	0.070	10.3	100	0.00
21	l4	1254-4		0.048	0.047	2.1	108	0.00
22	l4	1254-5		0.071	0.060	15.5	94	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	109	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	105	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	112	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.022	0.000	100.0#	0#	-1.59#
5	l1	1016-2		0.049	0.000	100.0#	0#	-1.73#
6	l1	1016-3		0.101	0.000	100.0#	0#	-1.92#
7	l1	1016-4		0.040	0.000	100.0#	0#	-1.97#
8	l1	1016-5		0.045	0.000	100.0#	0#	-2.14#
9	l2	1260-1		0.065	0.000	100.0#	0#	-2.69#
10	l2	1260-2		0.097	0.000	100.0#	0#	-2.82#
11	l2	1260-3		0.060	0.000	100.0#	0#	-3.13#
12	l2	1260-4		0.130	0.000	100.0#	0#	-3.29#
13	l2	1260-5		0.091	0.000	100.0#	0#	-3.44#
24	l6	1242-1		0.019	0.000	100.0#	0#	-1.58#
25	l6	1242-2		0.040	0.000	100.0#	0#	-1.73#
26	l6	1242-3		0.087	0.000	100.0#	0#	-1.91#
27	l6	1242-4		0.035	0.000	100.0#	0#	-1.97#
28	l6	1242-5		0.027	0.000	100.0#	0#	-2.32#
29	l9	1268-1		0.181	0.000	100.0#	0#	-3.45#
30	l9	1268-2		0.167	0.000	100.0#	0#	-3.47#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample   : cicv2154,42,,pp 11460
Misc   : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
31	l9	1268-3	0.133	0.000	100.0#	0#	-3.57#
32	l9	1268-4	0.058	0.000	100.0#	0#	-3.76#
33	l9	1268-5	0.392	0.000	100.0#	0#	-3.92#
35	l7	1248-1	0.057	0.000	100.0#	0#	-1.91#
36	l7	1248-2	0.074	0.000	100.0#	0#	-2.04#
37	l7	1248-3	0.065	0.000	100.0#	0#	-2.14#
38	l7	1248-4	0.058	0.000	100.0#	0#	-2.32#
39	l7	1248-5	0.050	0.000	100.0#	0#	-2.34#
41	l5	1232-1	0.026	0.000	100.0#	0#	-1.58#
42	l5	1232-2	0.024	0.000	100.0#	0#	-1.73#
43	l5	1232-3	0.050	0.000	100.0#	0#	-1.92#
44	l5	1232-4	0.020	0.000	100.0#	0#	-1.97#
45	l5	1232-5	0.015	0.000	100.0#	0#	-2.32#
46	l8	1262-1	0.070	0.000	100.0#	0#	-2.82#
47	l8	1262-2	0.091	0.000	100.0#	0#	-3.01#
48	l8	1262-3	0.079	0.000	100.0#	0#	-3.13#
49	l8	1262-4	0.160	0.000	100.0#	0#	-3.29#
50	l8	1262-5	0.050	0.000	100.0#	0#	-3.76#

Signal #2

4	l1	1016-1	0.021	0.000	100.0#	0#	-1.81#
5	l1	1016-2	0.046	0.000	100.0#	0#	-1.98#
6	l1	1016-3	0.092	0.000	100.0#	0#	-2.18#
7	l1	1016-4	0.034	0.000	100.0#	0#	-2.24#
8	l1	1016-5	0.029	0.000	100.0#	0#	-2.45#
9	l2	1260-1	0.054	0.000	100.0#	0#	-3.06#
10	l2	1260-2	0.062	0.000	100.0#	0#	-3.16#
11	l2	1260-3	0.048	0.000	100.0#	0#	-3.56#
12	l2	1260-4	0.096	0.000	100.0#	0#	-3.68#
13	l2	1260-5	0.066	0.000	100.0#	0#	-3.89#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample   : cicv2154,42,,pp 11460
Misc   : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
24 l6	1242-1	0.017	0.000	100.0#	0#	-1.80#
25 l6	1242-2	0.038	0.000	100.0#	0#	-1.97#
26 l6	1242-3	0.073	0.000	100.0#	0#	-2.18#
27 l6	1242-4	0.029	0.000	100.0#	0#	-2.24#
28 l6	1242-5	0.022	0.000	100.0#	0#	-2.62#
29 l9	1268-1	0.119	0.000	100.0#	0#	-3.88#
30 l9	1268-2	0.110	0.000	100.0#	0#	-3.90#
31 l9	1268-3	0.090	0.000	100.0#	0#	-4.05#
32 l9	1268-4	0.039	0.000	100.0#	0#	-4.20#
33 l9	1268-5	0.245	0.000	100.0#	0#	-4.38#
35 l7	1248-1	0.052	0.000	100.0#	0#	-2.17#
36 l7	1248-2	0.034	0.000	100.0#	0#	-2.32#
37 l7	1248-3	0.043	0.000	100.0#	0#	-2.45#
38 l7	1248-4	0.048	0.000	100.0#	0#	-2.62#
39 l7	1248-5	0.054	0.000	100.0#	0#	-2.65#
41 l5	1232-1	0.025	0.000	100.0#	0#	-1.80#
42 l5	1232-2	0.025	0.000	100.0#	0#	-1.98#
43 l5	1232-3	0.045	0.000	100.0#	0#	-2.18#
44 l5	1232-4	0.018	0.000	100.0#	0#	-2.24#
45 l5	1232-5	0.013	0.000	100.0#	0#	-2.62#
46 l8	1262-1	0.049	0.000	100.0#	0#	-3.16#
47 l8	1262-2	0.065	0.000	100.0#	0#	-3.39#
48 l8	1262-3	0.059	0.000	100.0#	0#	-3.55#
49 l8	1262-4	0.110	0.000	100.0#	0#	-3.68#
50 l8	1262-5	0.039	0.000	100.0#	0#	-4.20#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample : cicv2154,42,,pp 11460
Misc : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.161	1.230	408.8E6	303.8E6	25.000M4	25.000M4
14) i	2154_1br2nb	1.161	1.230	408.8E6	303.8E6	25.000M4	25.000M4
23) i	4268_1br2nb	1.161	1.230	408.8E6	303.8E6	25.000M4	25.000M4
34) i	1248_1br2nb	1.161	1.230	408.8E6	303.8E6	25.000M4	25.000M4
40) i	3262_1br2nb	1.161	1.230	408.8E6	303.8E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.447	1.605	308.2E6	217.5E6	14.382	14.534
	Spiked Amount	20.000	Range 30 - 150		Recovery =	71.91%	72.67%
3) s	Decachlorobi	4.022	4.536	450.5E6	237.9E6	32.528M4	33.753
	Spiked Amount	20.000	Range 30 - 150		Recovery =	162.64%#	168.77%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample : cicv2154,42,,pp 11460
Misc : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum 1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
15) l3	1221-2	1.510	1.721	48108664	36664748	202.154	199.604
16) l3	1221-3	1.569	1.780	28986702	22977877	198.186	202.776M3
17) l3	1221-4	1.586	1.806	116.3E6	84020572	203.181M3	205.054M3
	Sum 1221-2			193.4E6	143.7E6	603.521	607.434
Average	1221-2					201.174	202.478
18) l4	1254-1	2.307	2.648	178.5E6	127.6E6	217.391	228.228
19) l4	1254-2	2.420	2.735	328.7E6	143.4E6	224.511	224.888
20) l4	1254-3	2.603	2.965	348.0E6	212.7E6	223.820M1	225.847
21) l4	1254-4	2.733	3.076	240.7E6	141.4E6	221.185	242.784
22) l4	1254-5	2.956	3.352	313.0E6	182.3E6	209.753	212.443
	Sum 1254-1			1408.9E6	807.4E6	1096.660	1134.191
Average	1254-1					219.332	226.838
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample : cicv2154,42,,pp 11460
Misc : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample : cicv2154,42,,pp 11460
Misc : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

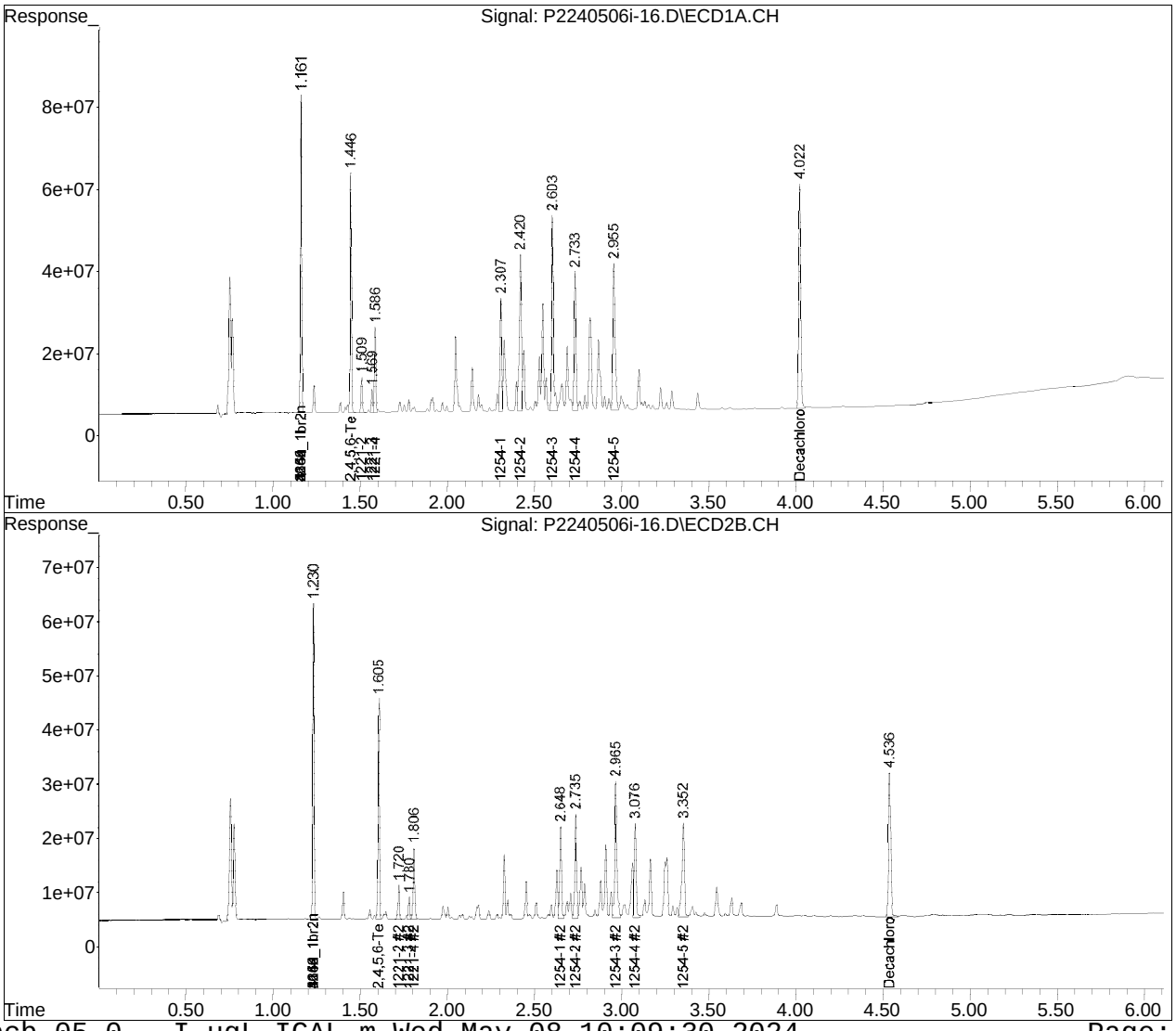
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample : cicv2154,42,,pp 11460
Misc : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

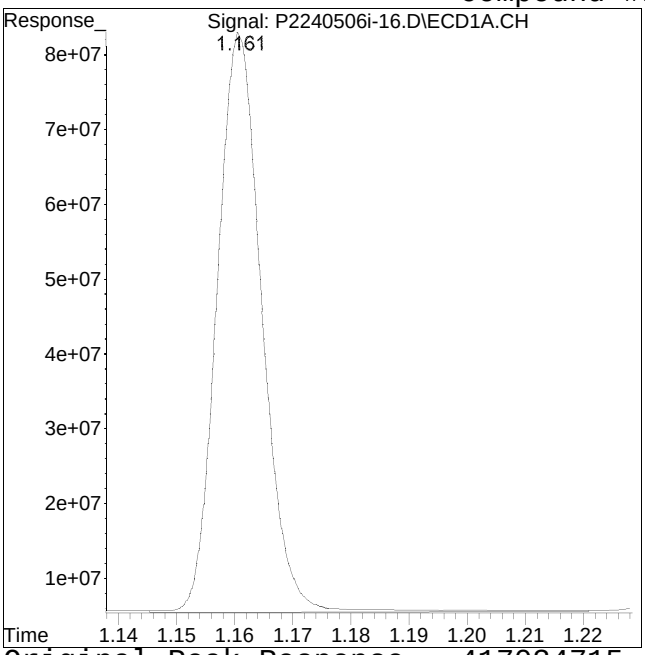
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

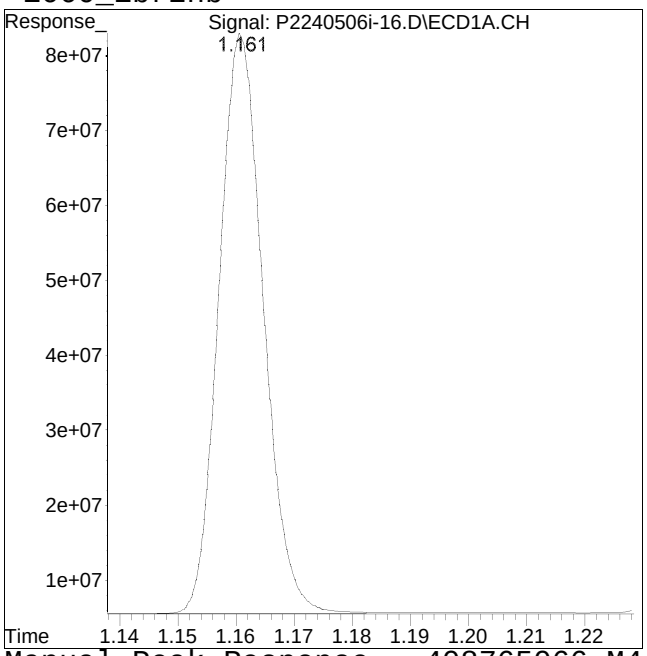


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #1: 1660_1br2nb



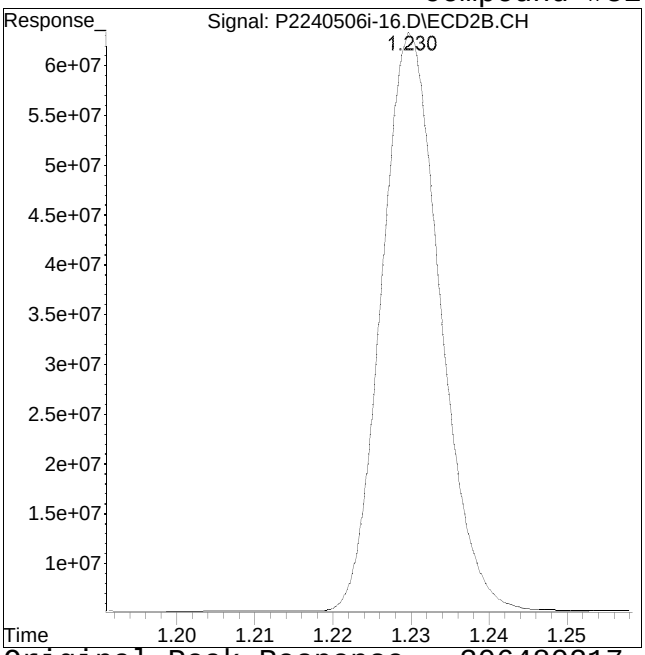


Original Peak Response = 417034715 Manual Peak Response = 408765066 M4
M4 = Poor automated baseline construction.

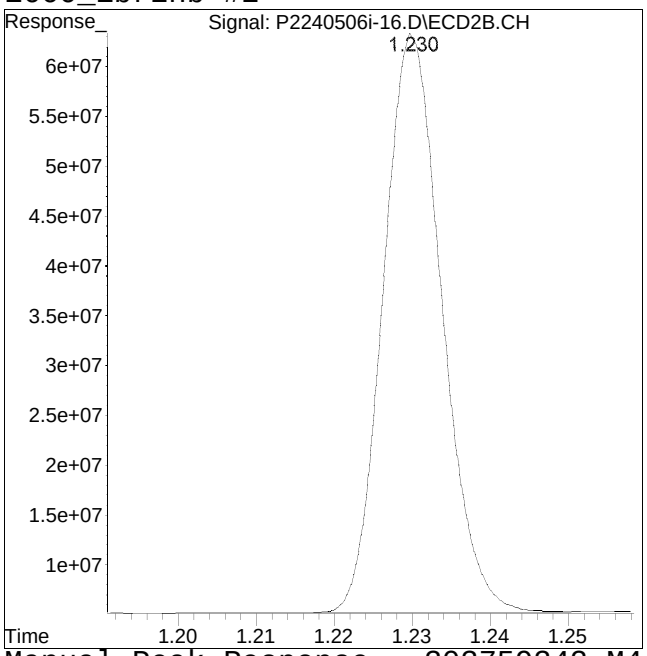
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #52: 1660_1br2nb #2



Original Peak Response = 306480217

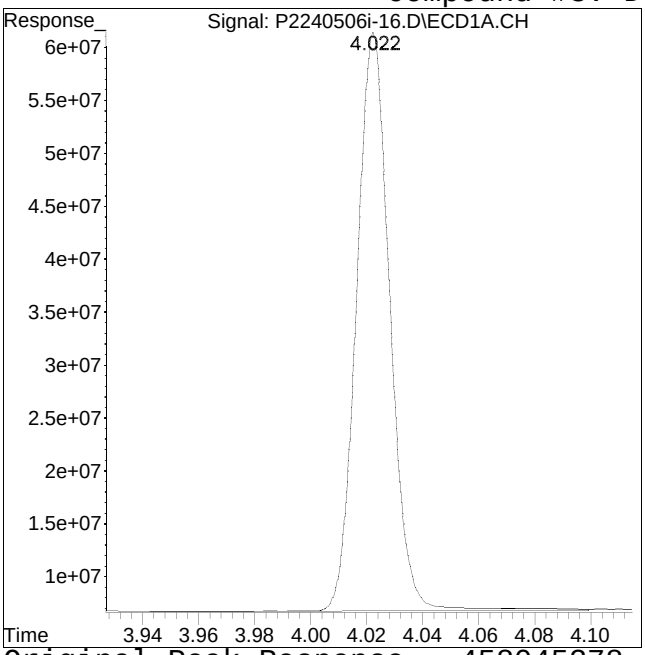


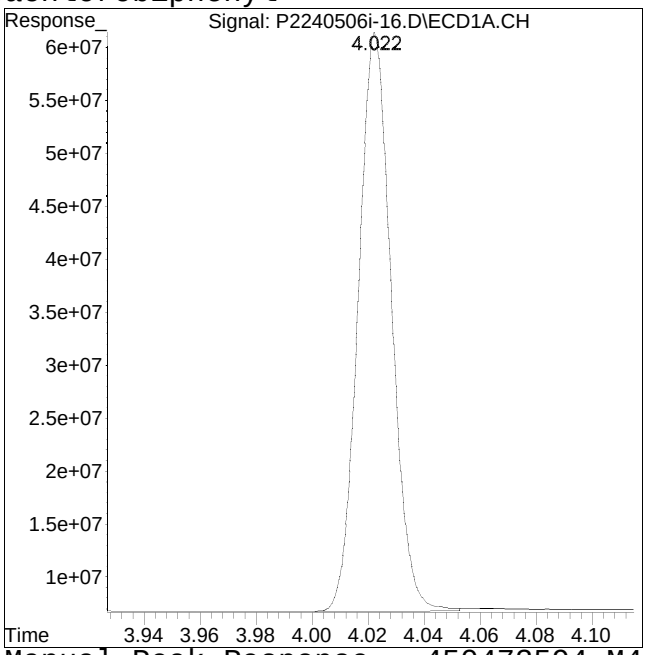
Manual Peak Response = 303759342 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #3: Decachlorobiphenyl



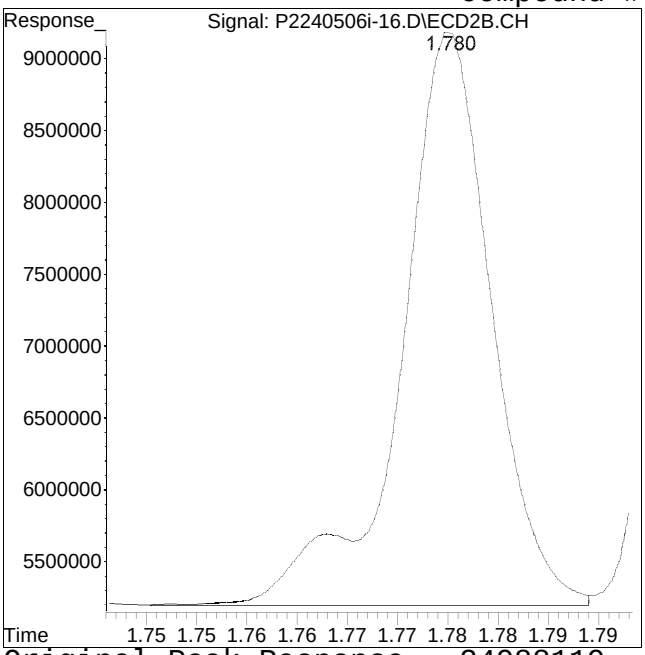


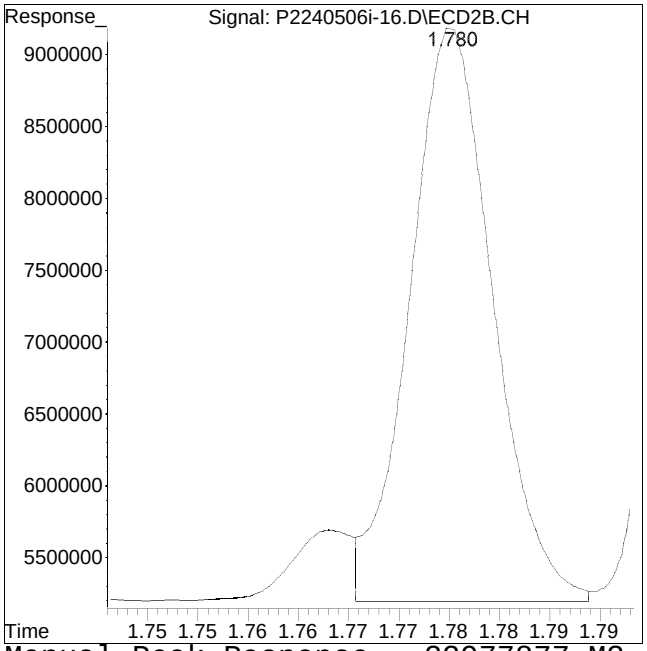
Original Peak Response = 458045378 Manual Peak Response = 450473594 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #67: 1221-3 #2



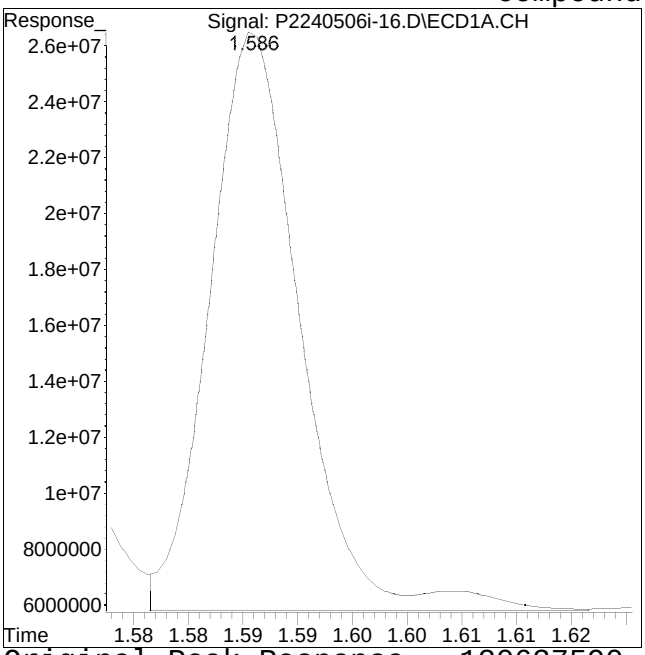


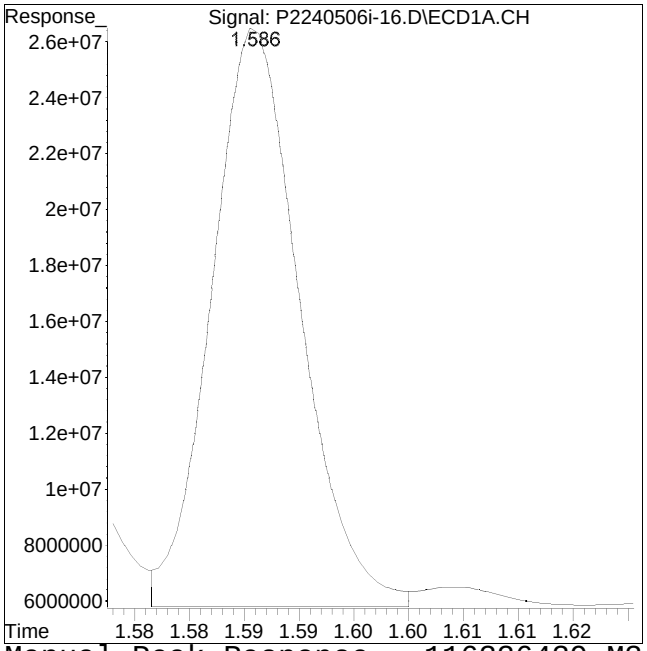
Original Peak Response = 24988119 Manual Peak Response = 22977877 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #17: 1221-4



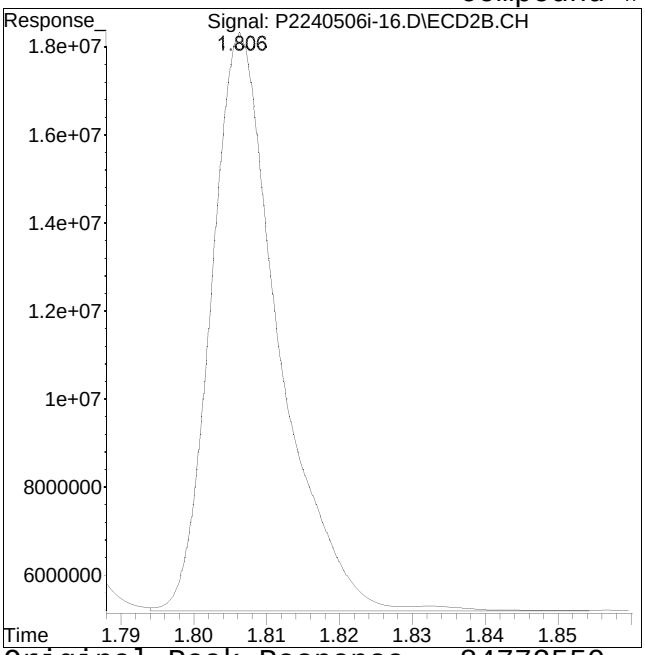


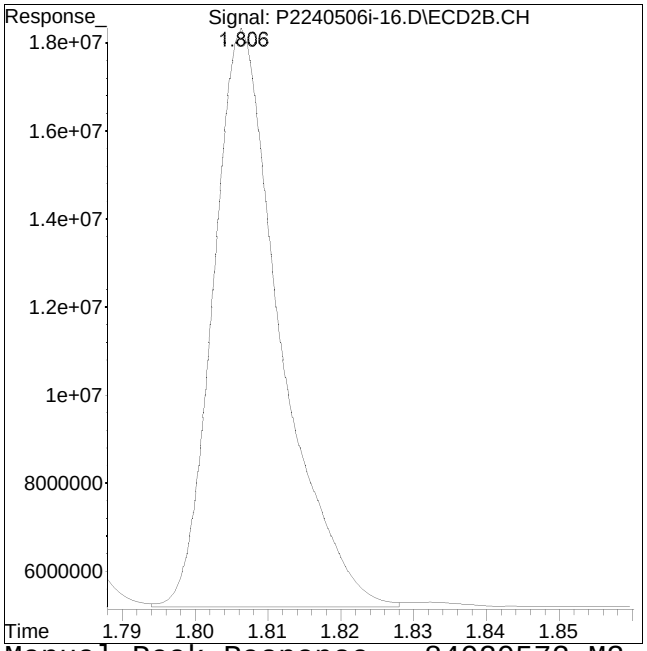
Original Peak Response = 120637590 Manual Peak Response = 116336439 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #68: 1221-4 #2



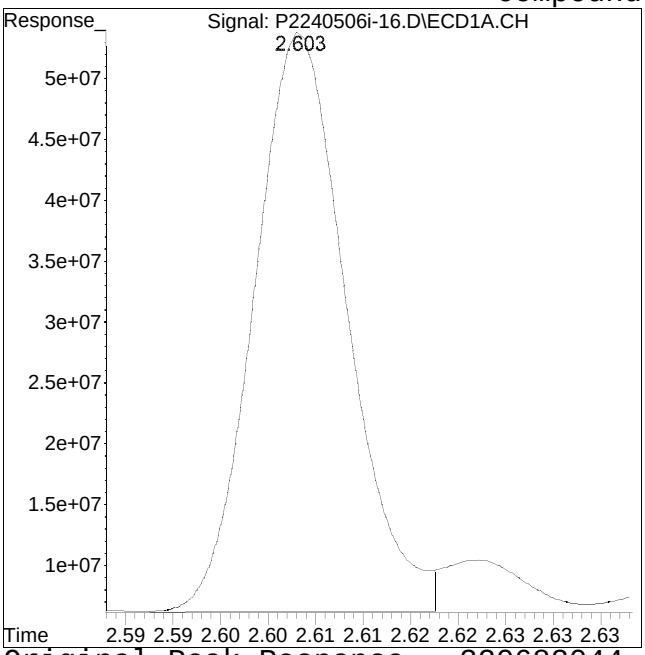


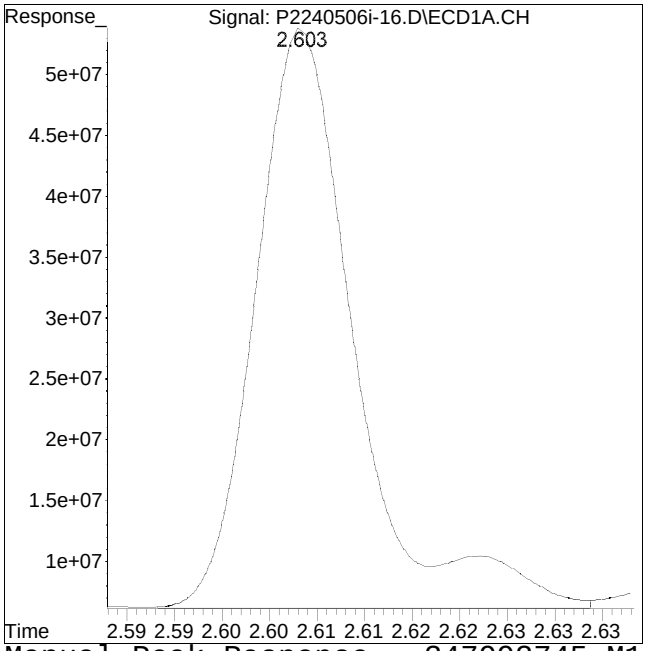
Original Peak Response = 84772550 Manual Peak Response = 84020572 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #20: 1254-3





Original Peak Response = 320682044 Manual Peak Response = 347993745 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:31 pm
Operator : pest2:rmp
Sample : il11660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:45:14 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.158	1.225	441.4E6	313.8E6	25.000	25.000M4
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.444	1.601	11388483	8343622	0.492	0.535
	Spiked Amount 20.000	Range 30 - 150		Recovery =		2.46%#	2.68%#
3) s	Decachlorobi	4.023	4.533	16750063	8510498	0.419M4	1.148M4
	Spiked Amount 20.000	Range 30 - 150		Recovery =		2.10%#	5.74%#
	Target Compounds						
4) l1	1016-1	1.584	1.803	3450981	2331136	8.405M4	8.707M5
5) l1	1016-2	1.726	1.975	6769076	5116199	7.846M4	8.669M4
6) l1	1016-3	1.916	2.176	13963884	10750016	7.759M4	9.175M4
7) l1	1016-4	1.971	2.236	5637064	3338891	7.770M3	7.351M4
8) l1	1016-5	2.142	2.447	6947810	3199324	8.725M4	8.197M4
	Sum 1016-1			36768814	24735565	40.505	42.098
	Average 1016-1					8.101	8.420
9) l2	1260-1	2.687	3.058	10067369	9159323	8.631M4	13.100M4
10) l2	1260-2	2.817	3.159	14349523	8268142	0.538M4	9.726M4

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:31 pm
Operator : pest2:rmp
Sample : il11660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:45:14 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
11) l2	1260-3	3.134	3.553	8892637	5160934	8.062M4	7.483M4
12) l2	1260-4	3.290	3.682	18580326	10937126	1.300M3	8.930M4
13) l2	1260-5	3.438	3.884	13302799	6780440	1.855M4	7.906M3
Sum	1260-1			65192654	40305965	N.D.	N.D. D
Average	1260-1					4.077	9.429 D
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:31 pm
Operator : pest2:rmp
Sample : il11660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:45:14 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:31 pm
Operator : pest2:rmp
Sample : il11660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:45:14 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1262-1					0.000	0.000

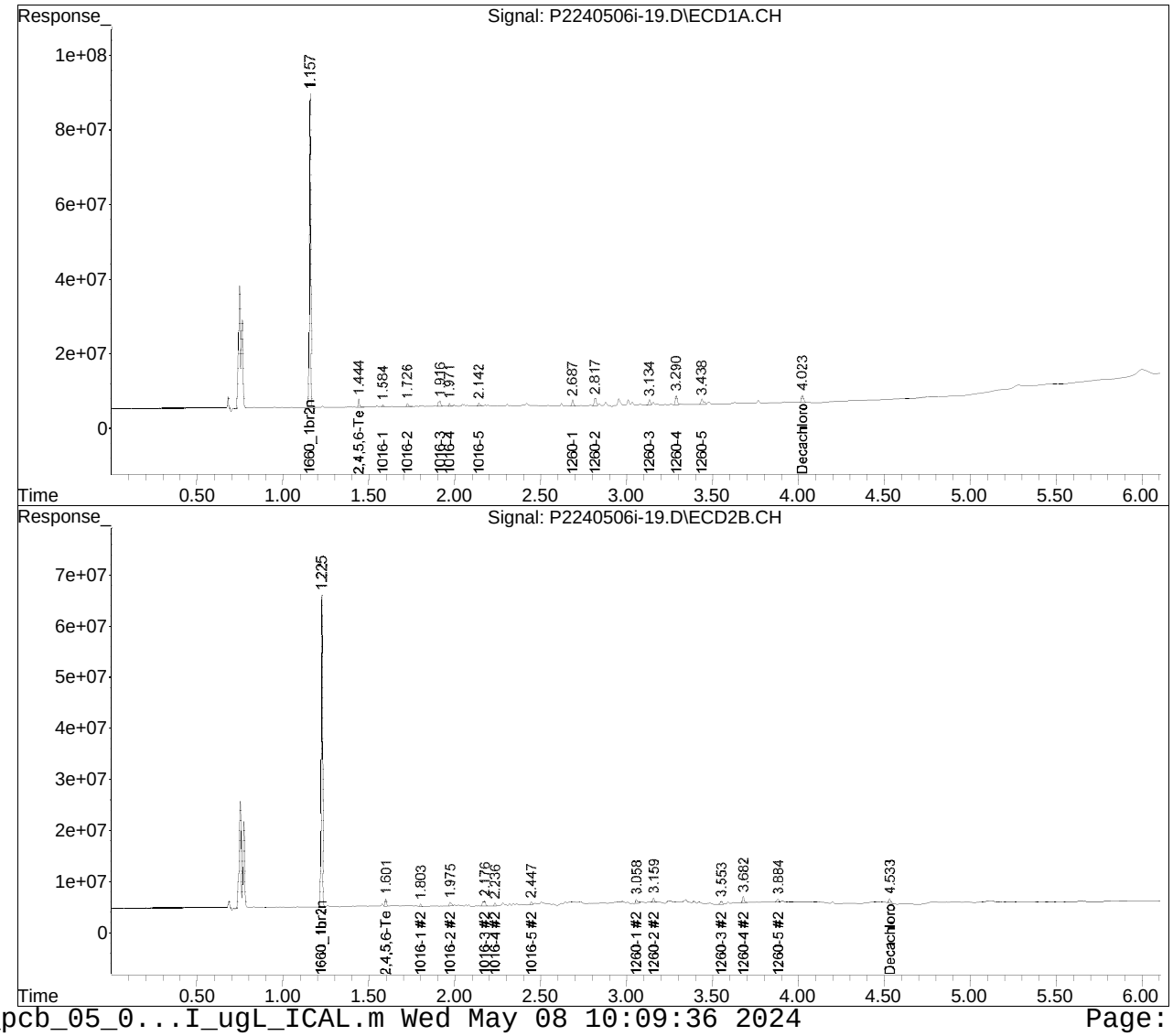
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:31 pm
Operator : pest2:rmp
Sample : il11660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:45:14 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

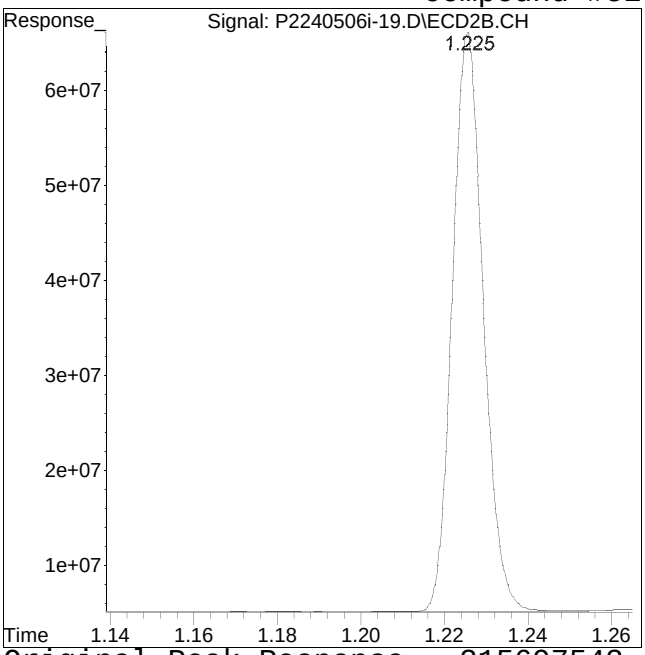
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



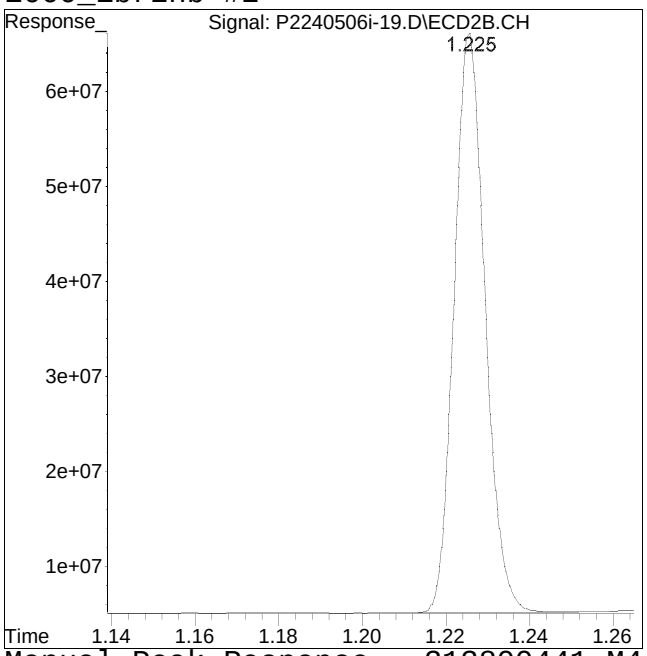
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #52: 1660_1br2nb #2



Original Peak Response = 315697543



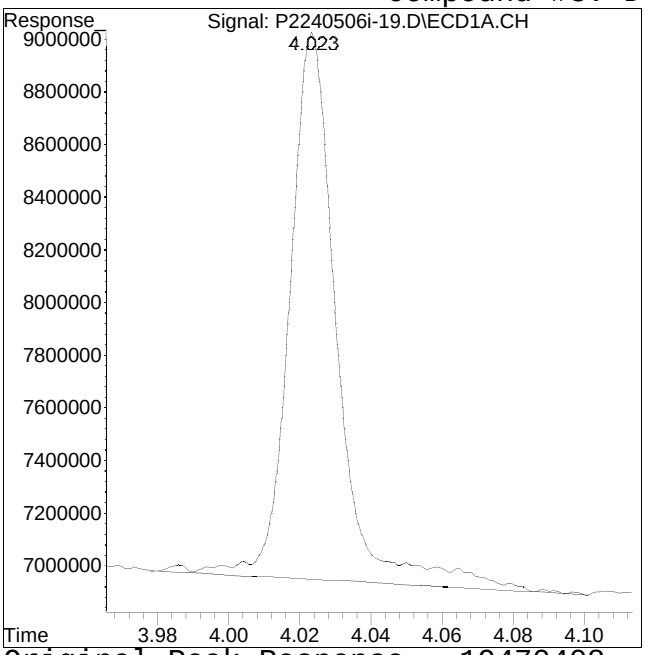
Manual Peak Response = 313800441 M4

M4 = Poor automated baseline construction.

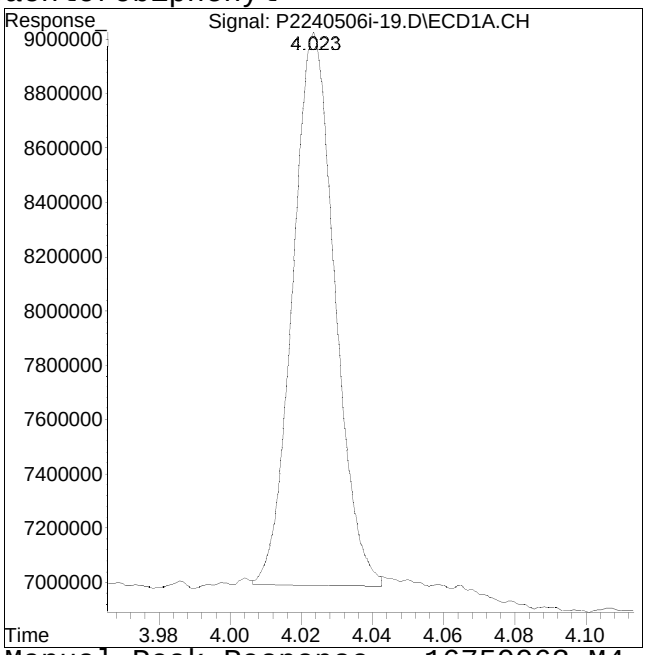
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #3: Decachlorobiphenyl



Original Peak Response = 19470408



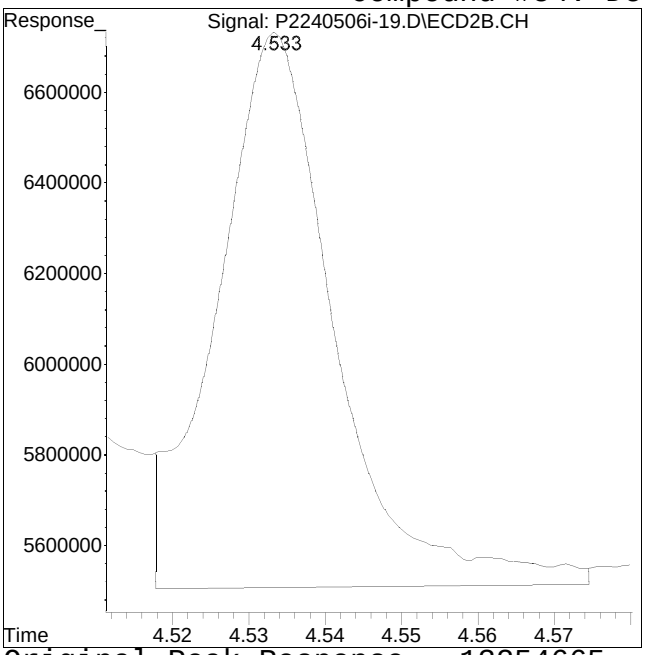
Manual Peak Response = 16750063 M4

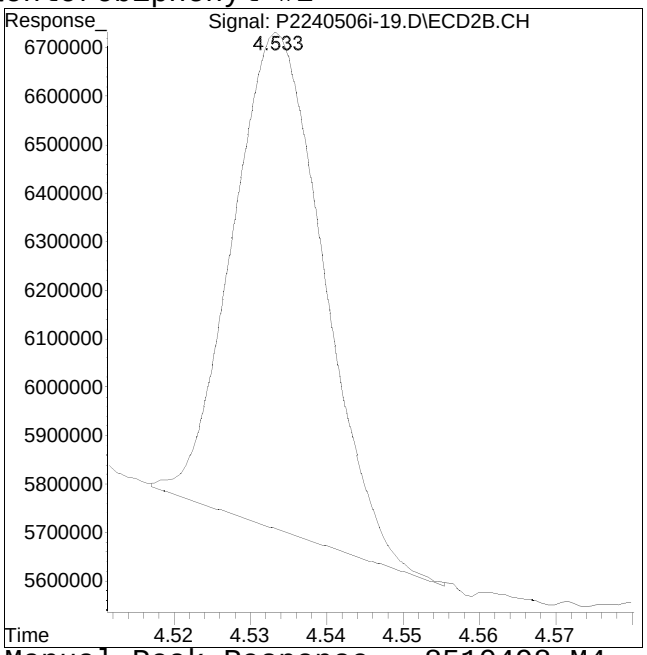
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #54: Decachlorobiphenyl #2



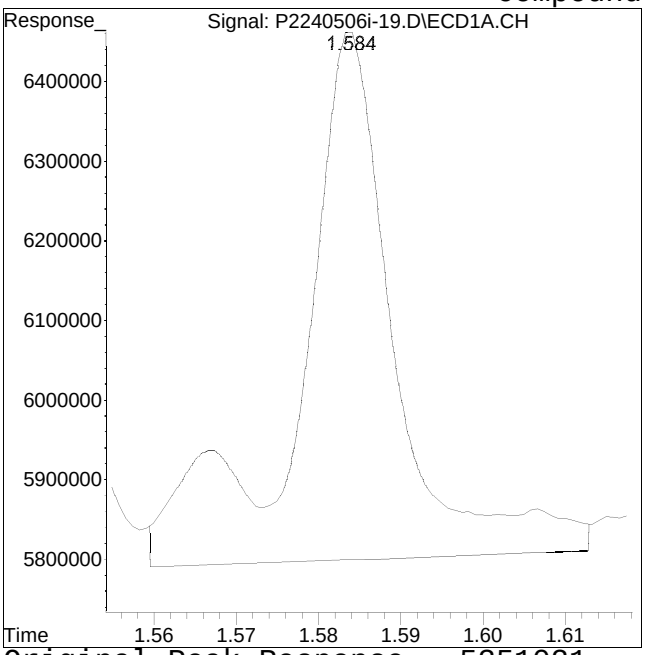


Original Peak Response = 13254665 Manual Peak Response = 8510498 M4
M4 = Poor automated baseline construction.

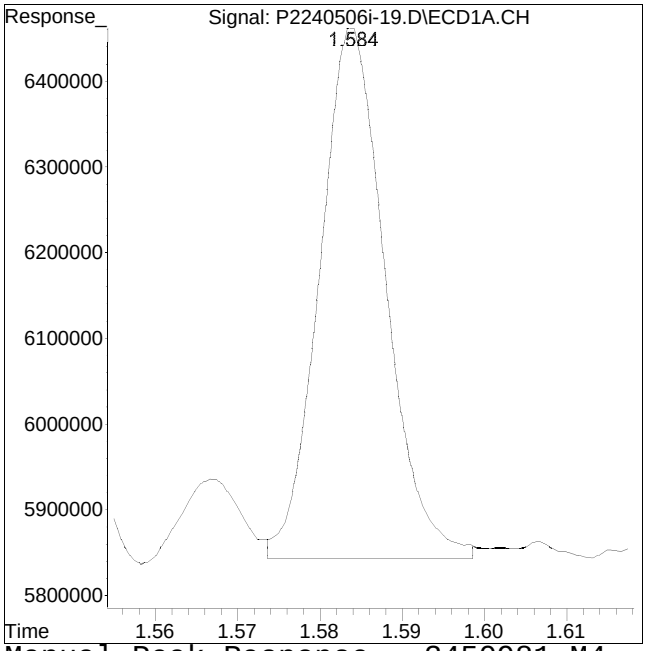
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #4: 1016-1



Original Peak Response = 5351021



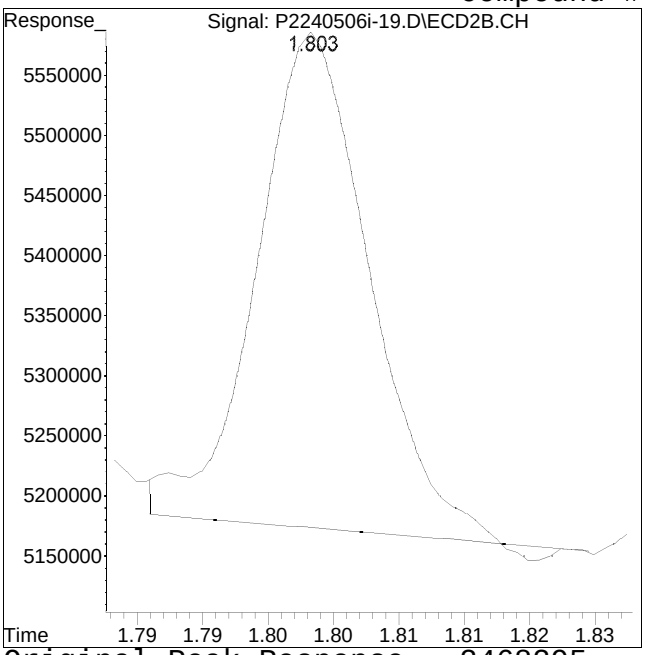
Manual Peak Response = 3450981 M4

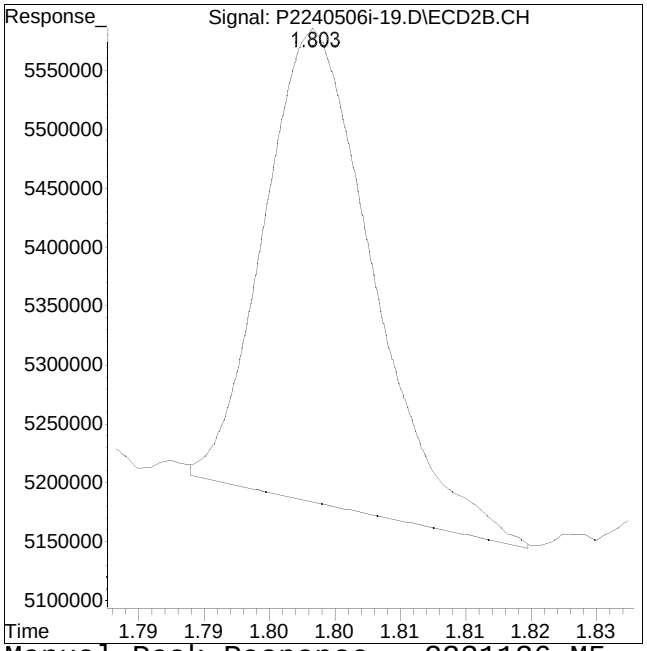
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #55: 1016-1 #2



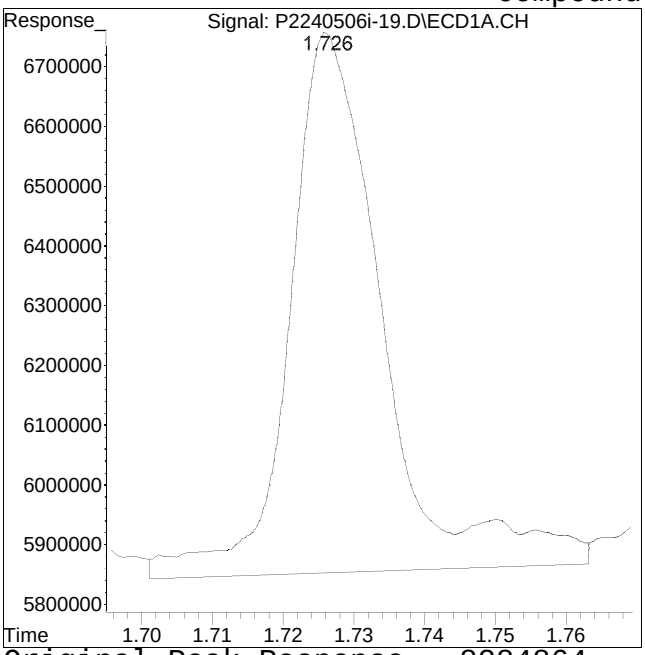


Original Peak Response = 2468295 Manual Peak Response = 2331136 M5
M5 = Manual integration over a retention time range required, i.e. for hydrocarbon range methods.

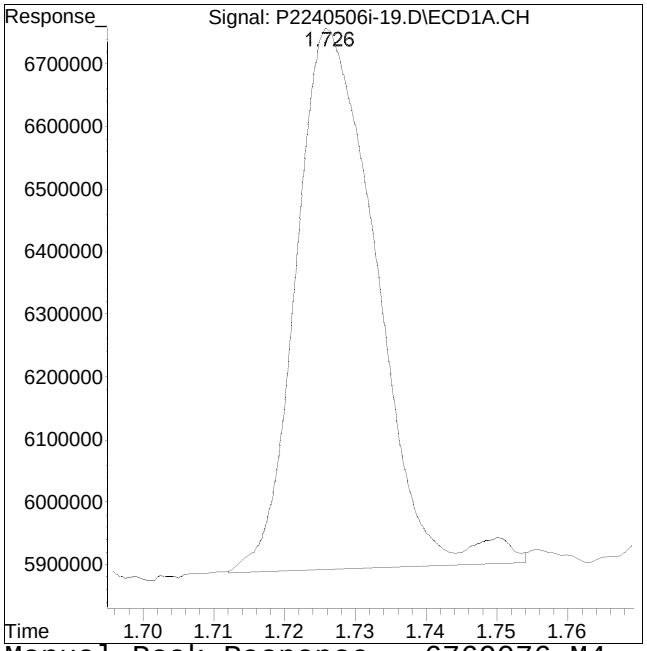
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #5: 1016-2



Original Peak Response = 8284864



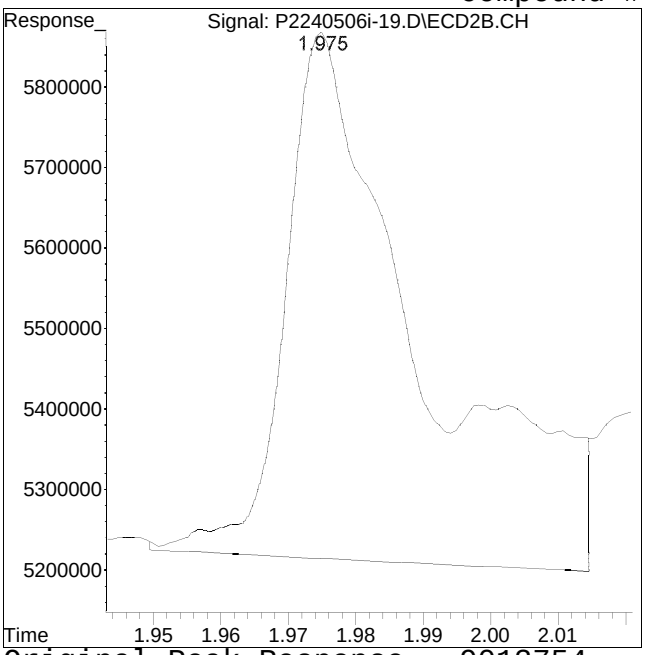
Manual Peak Response = 6769076 M4

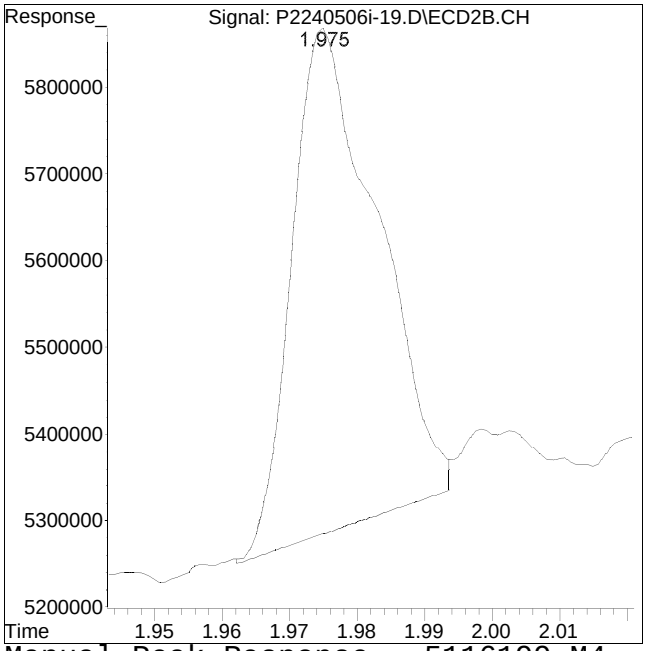
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #56: 1016-2 #2



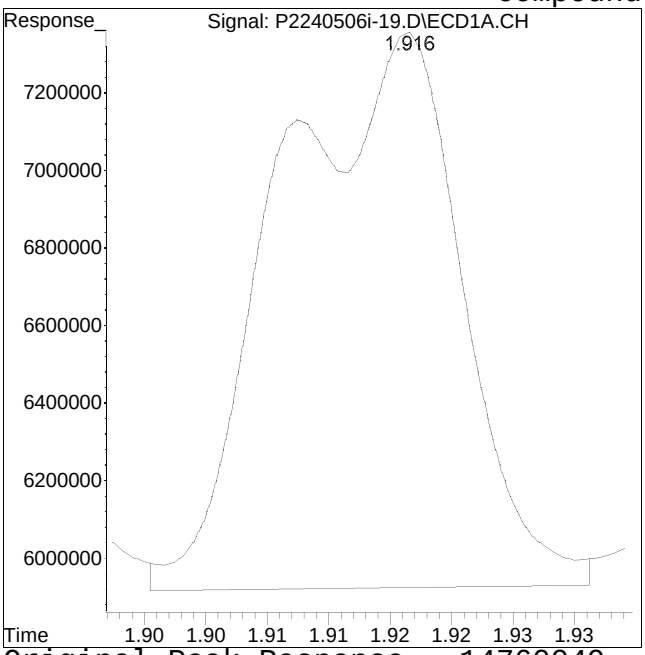


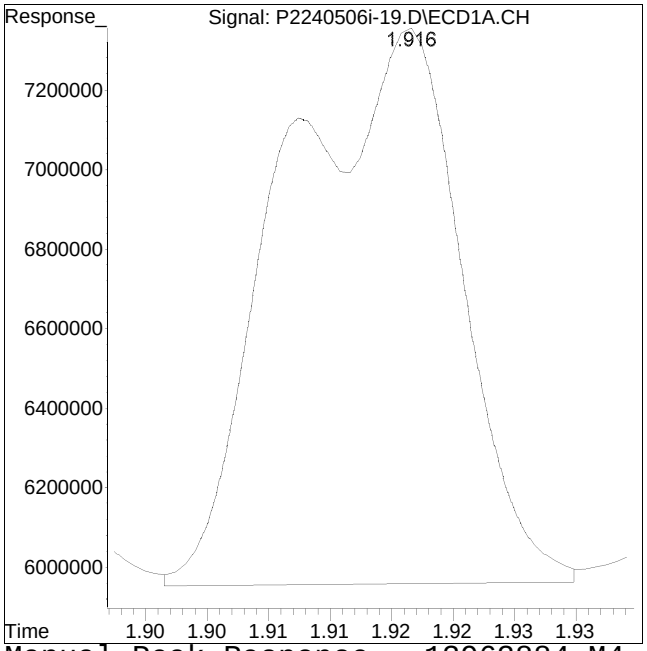
Original Peak Response = 9013754 Manual Peak Response = 5116199 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #6: 1016-3



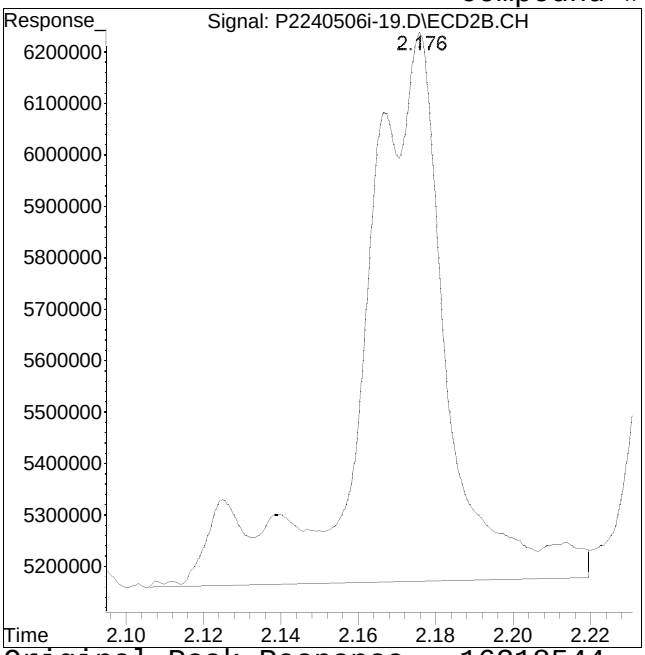


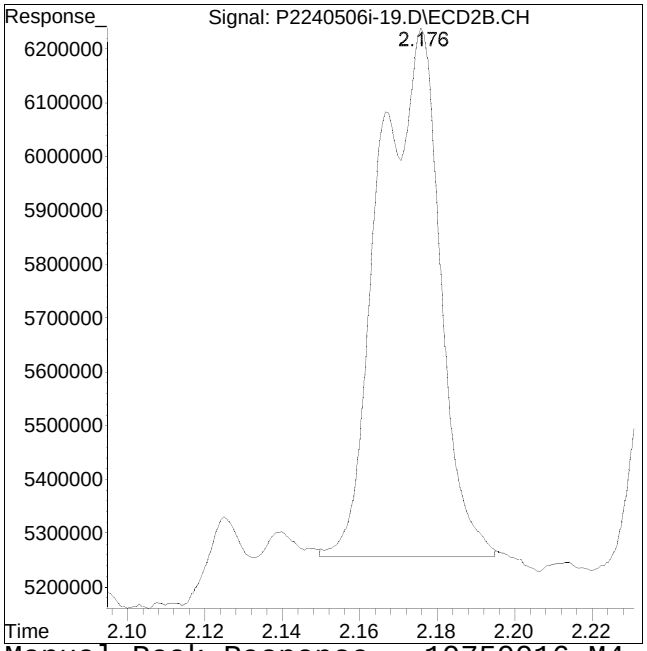
Original Peak Response = 14760049 Manual Peak Response = 13963884 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #57: 1016-3 #2



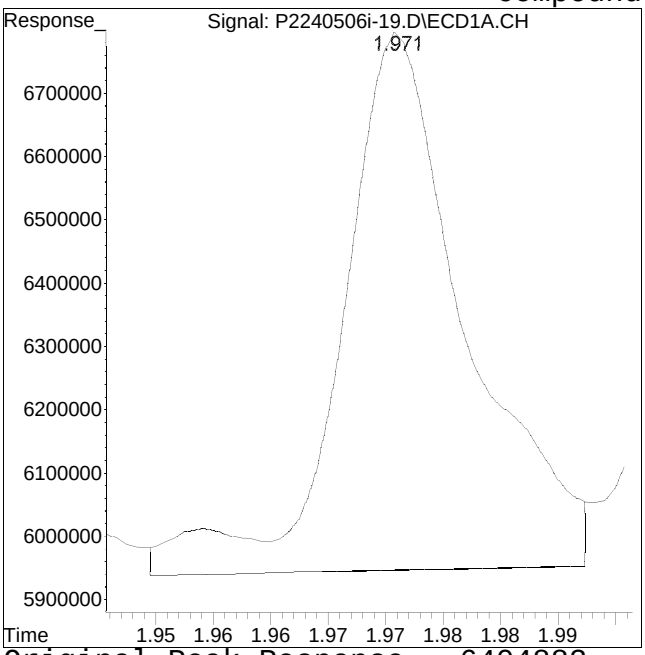


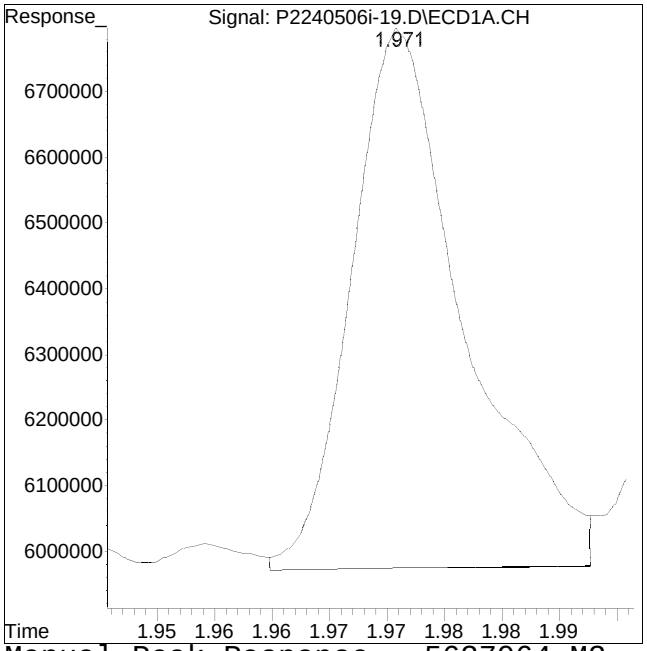
Original Peak Response = 16318544 Manual Peak Response = 10750016 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #7: 1016-4



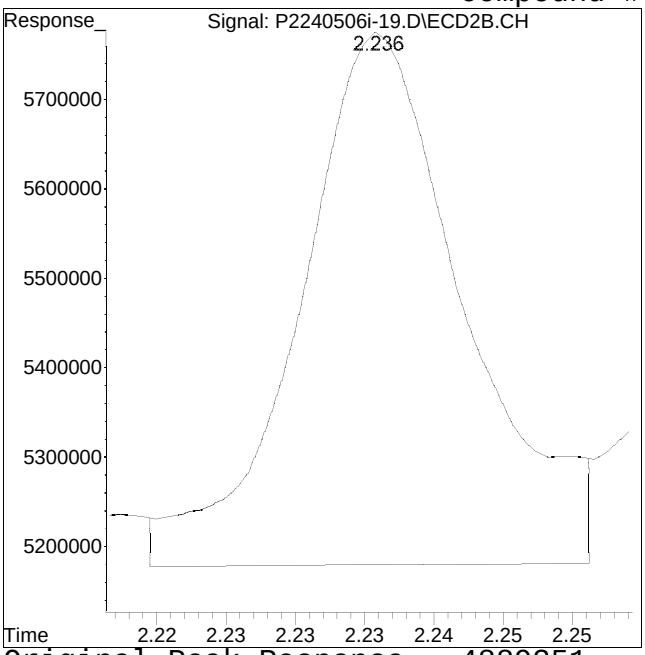


Original Peak Response = 6404883 Manual Peak Response = 5637064 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

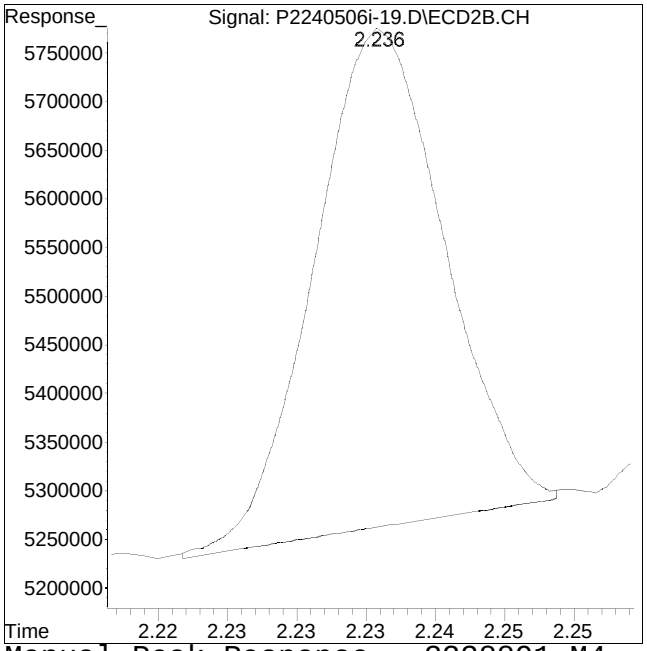
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #58: 1016-4 #2



Original Peak Response = 4889351



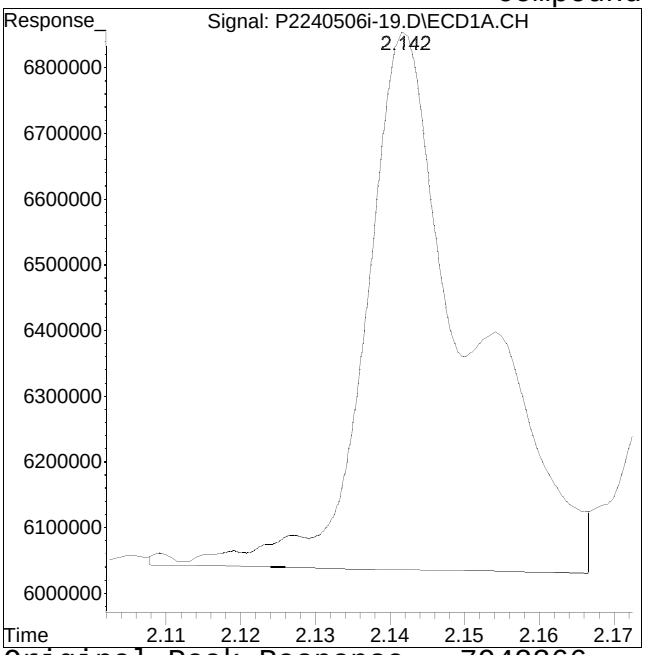
Manual Peak Response = 3338891 M4

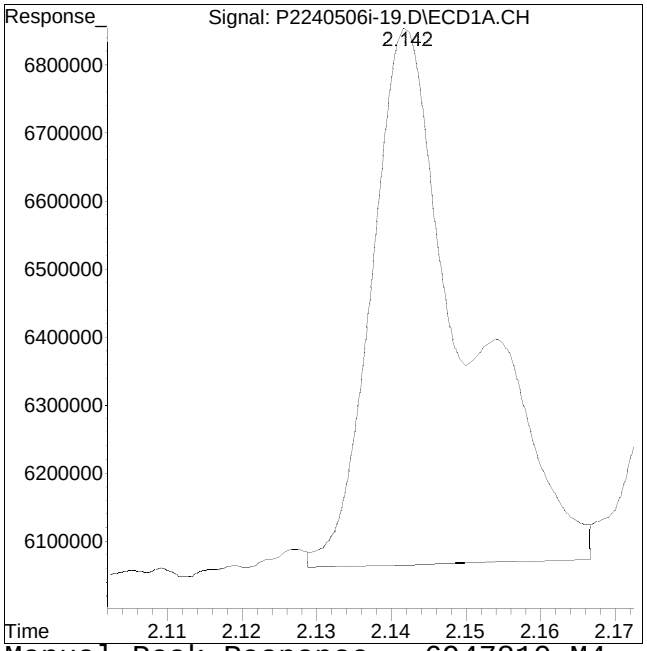
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #8: 1016-5



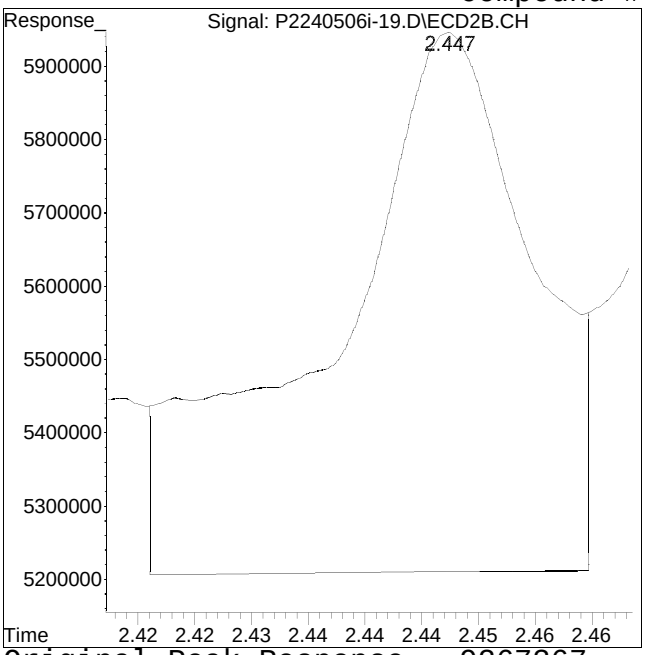


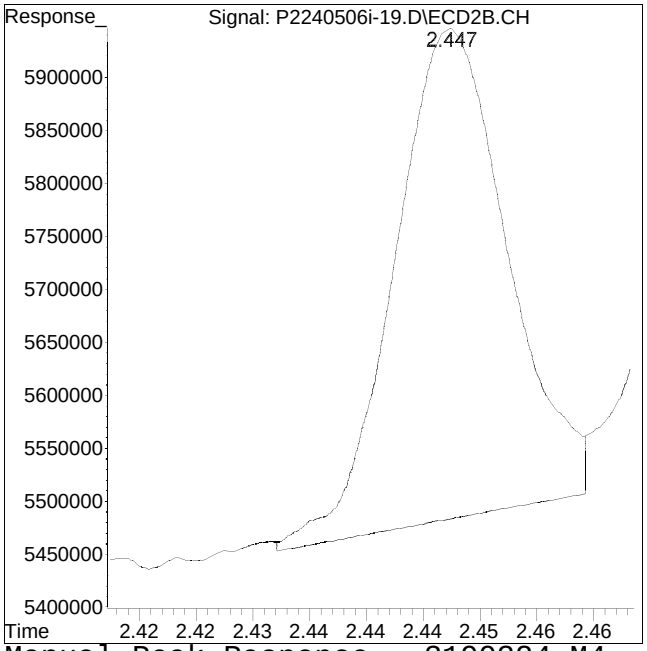
Original Peak Response = 7942366 Manual Peak Response = 6947810 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #59: 1016-5 #2



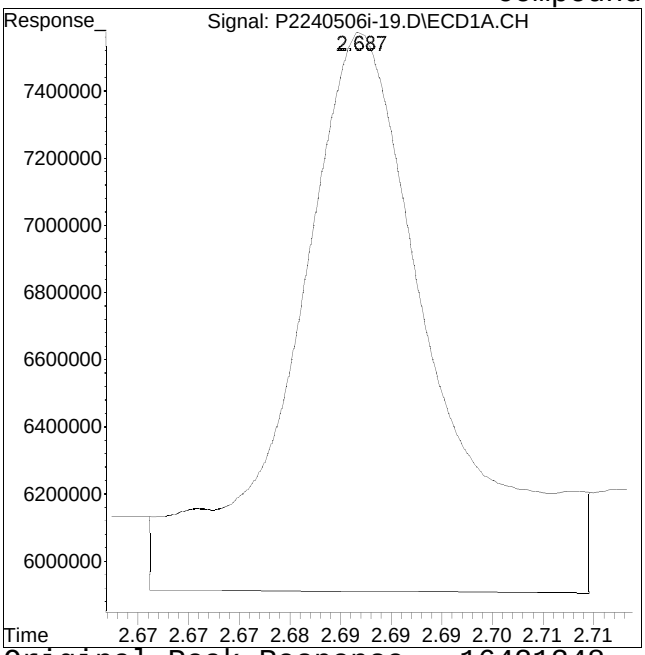


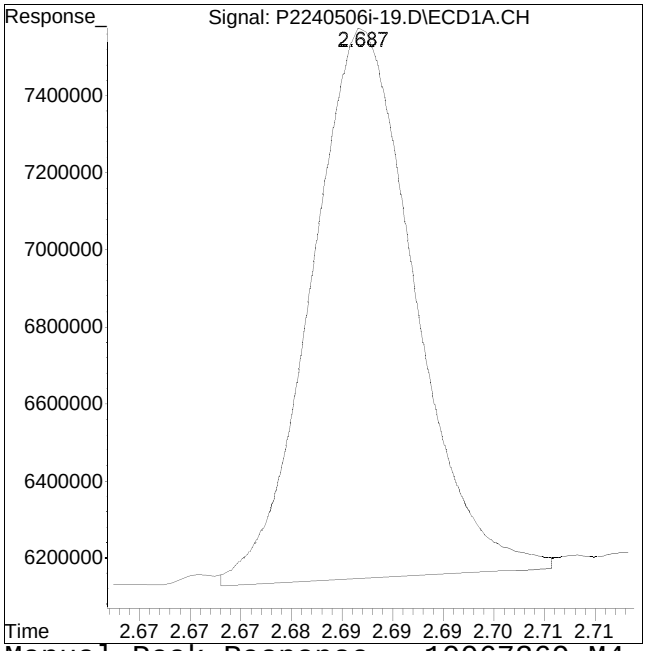
Original Peak Response = 9267367 Manual Peak Response = 3199324 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #9: 1260-1



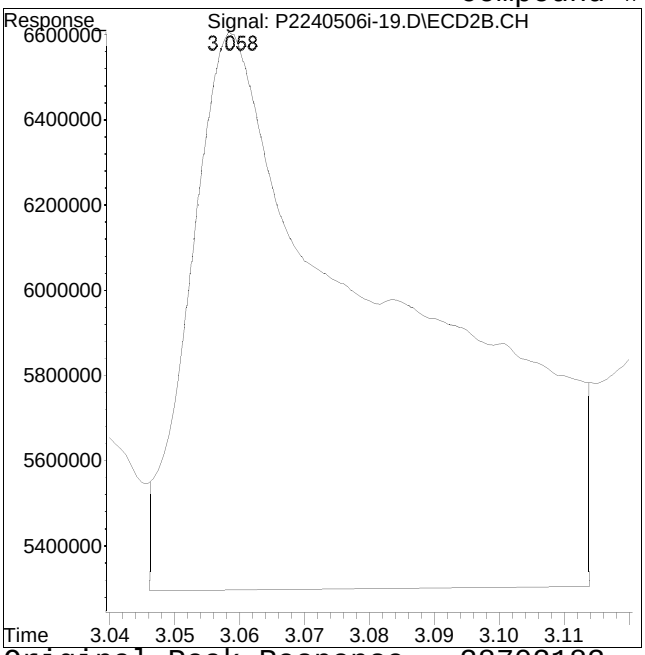


Original Peak Response = 16421248 Manual Peak Response = 10067369 M4
M4 = Poor automated baseline construction.

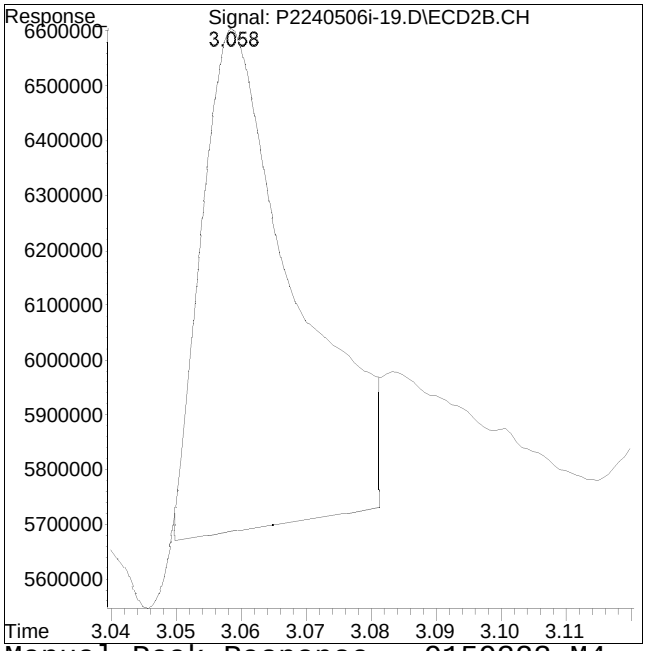
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #60: 1260-1 #2



Original Peak Response = 28702183



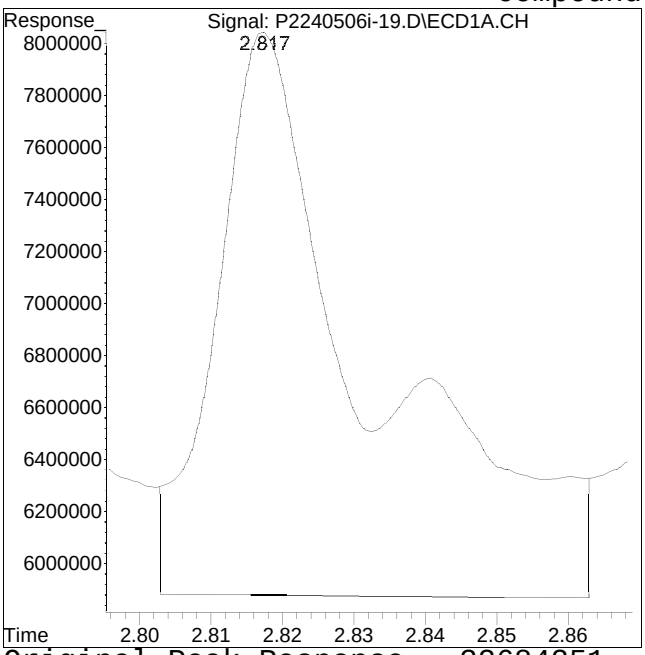
Manual Peak Response = 9159323 M4

M4 = Poor automated baseline construction.

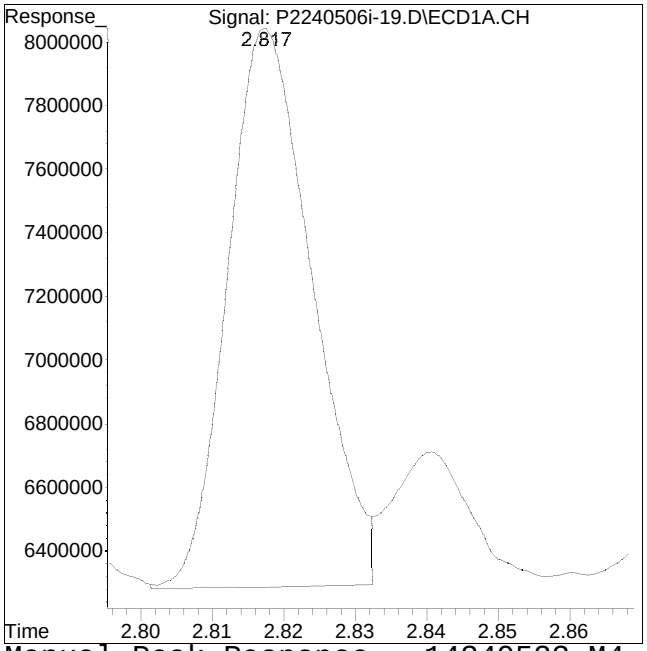
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #10: 1260-2



Original Peak Response = 32684251



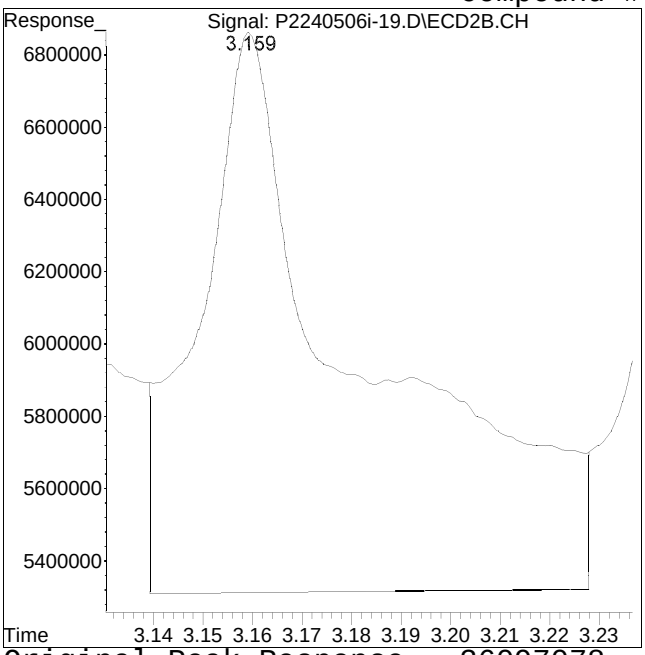
Manual Peak Response = 14349523 M4

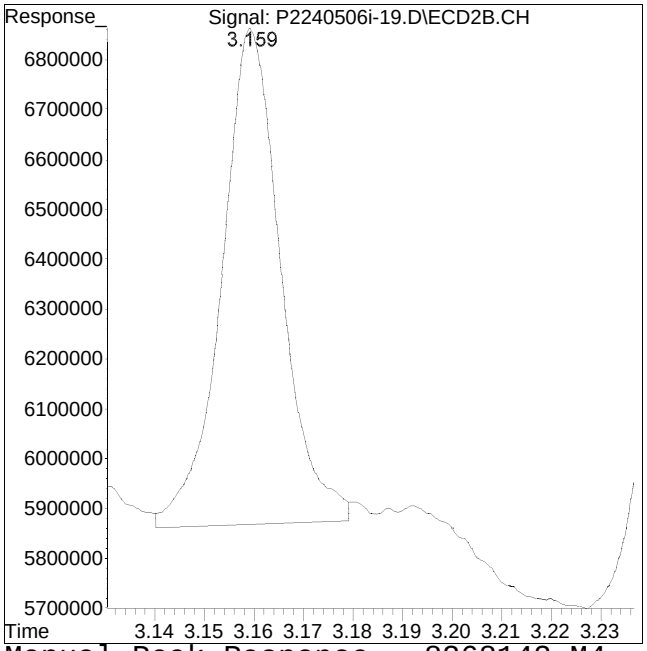
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #61: 1260-2 #2



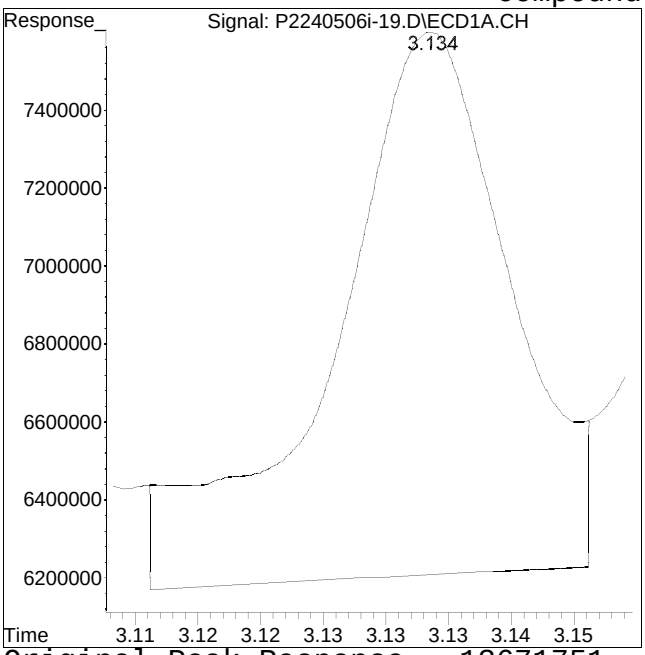


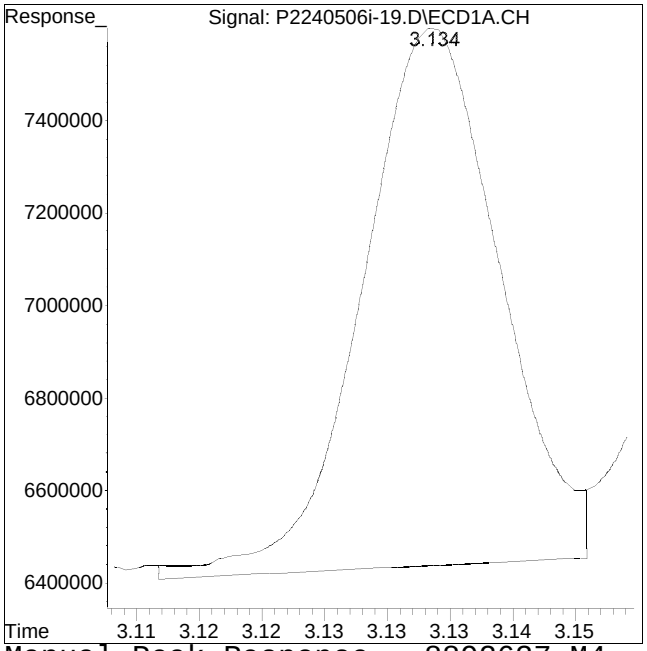
Original Peak Response = 36097078 Manual Peak Response = 8268142 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #11: 1260-3



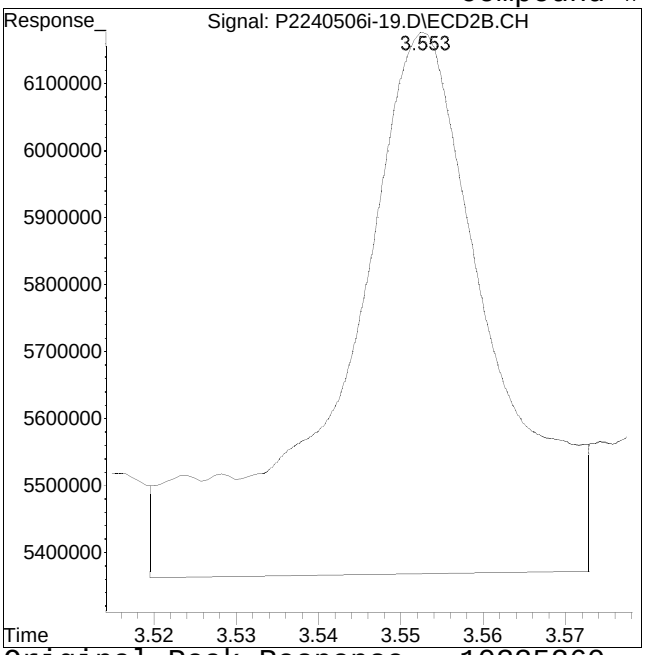


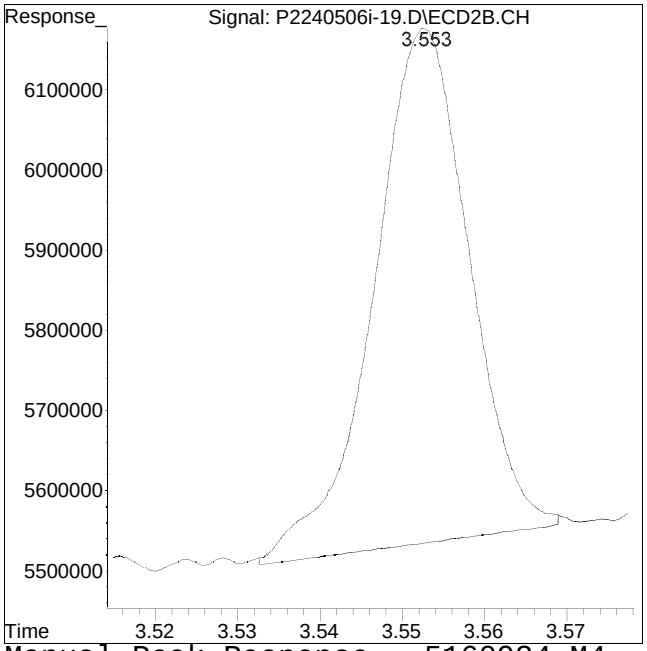
Original Peak Response = 13671751 Manual Peak Response = 8892637 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #62: 1260-3 #2



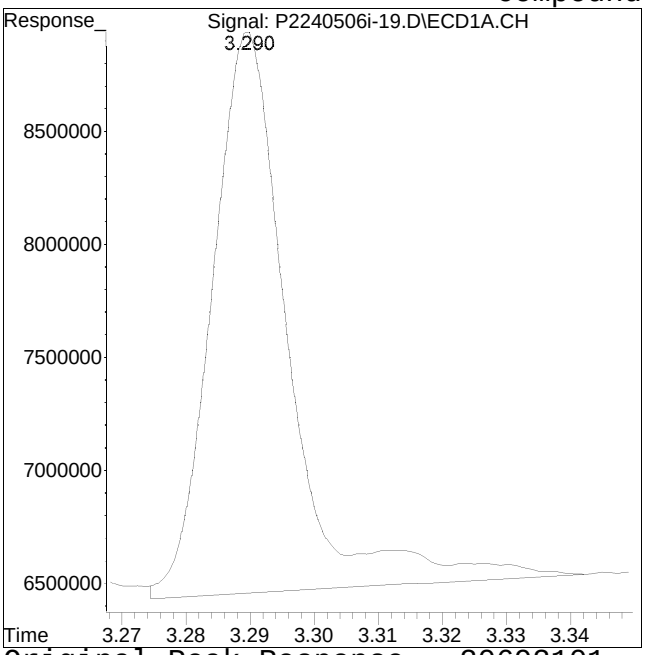


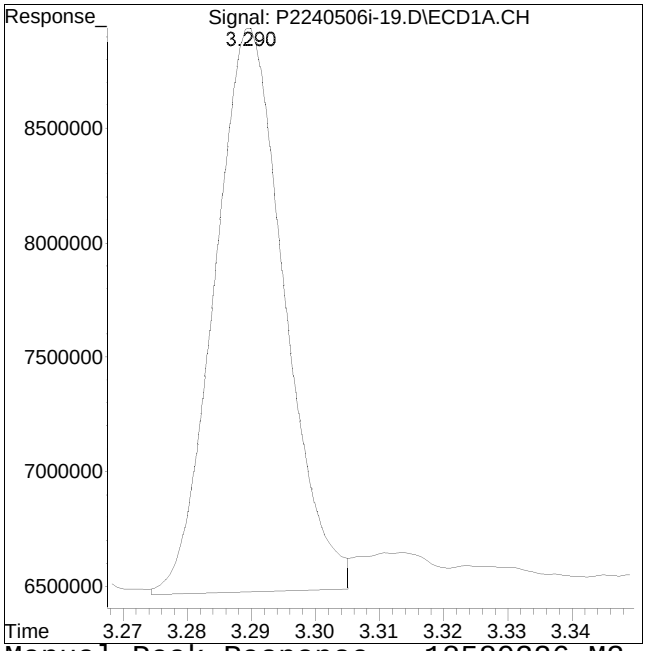
Original Peak Response = 10335260 Manual Peak Response = 5160934 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #12: 1260-4



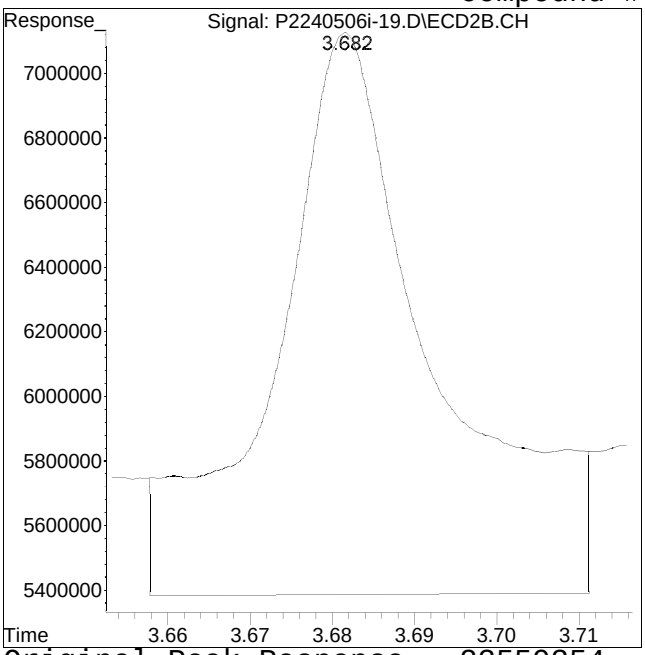


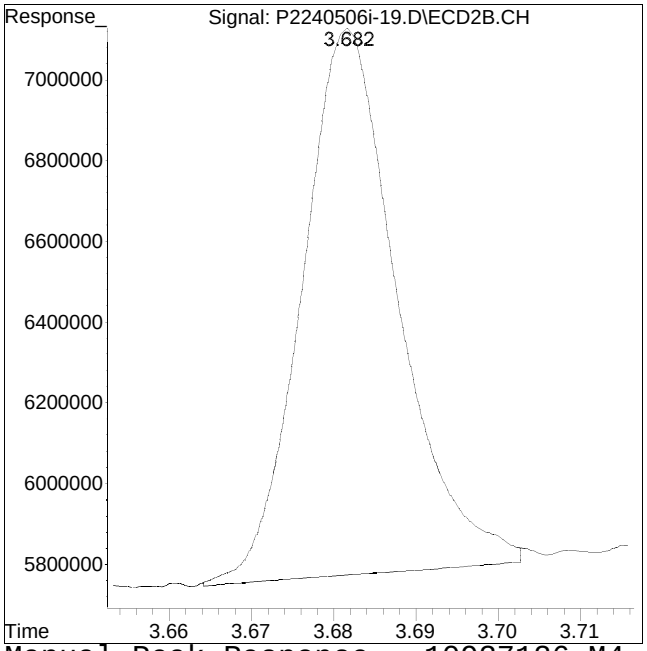
Original Peak Response = 20692101 Manual Peak Response = 18580326 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #63: 1260-4 #2



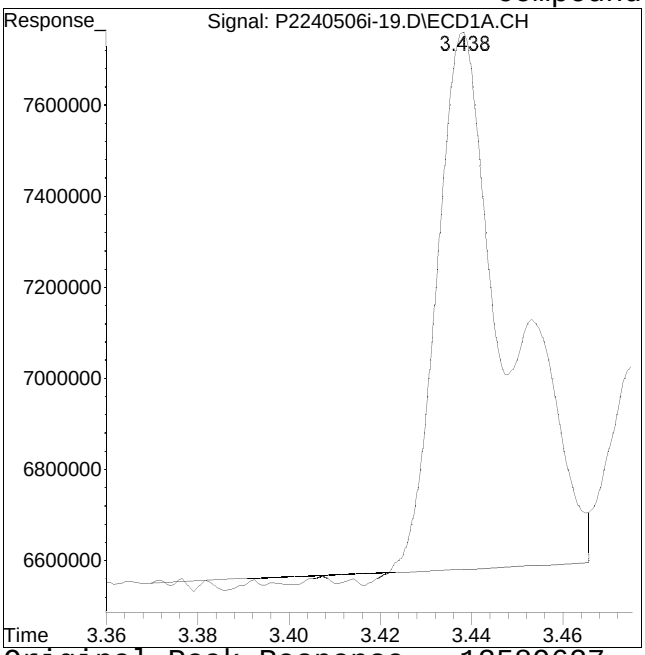


Original Peak Response = 23559354 Manual Peak Response = 10937126 M4
M4 = Poor automated baseline construction.

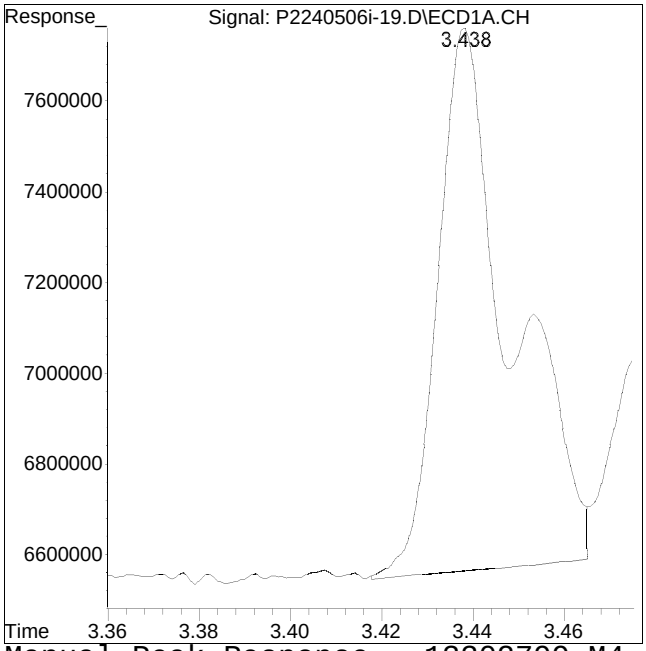
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #13: 1260-5



Original Peak Response = 12589627



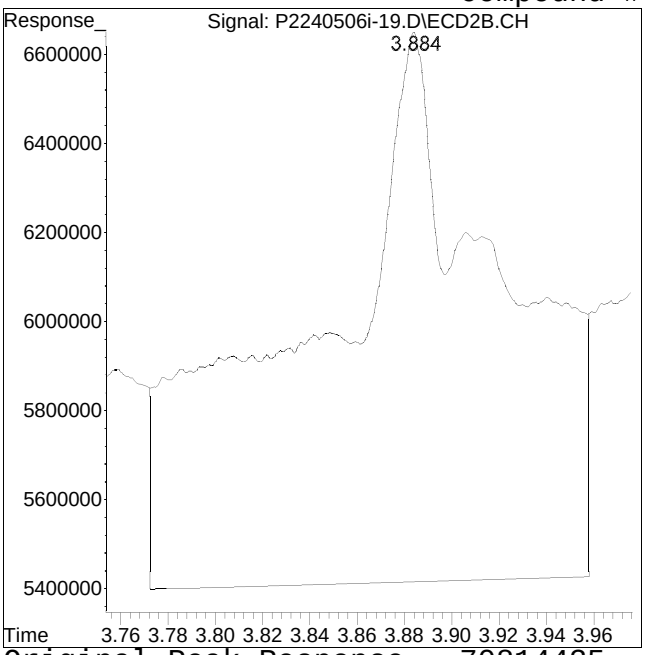
Manual Peak Response = 13302799 M4

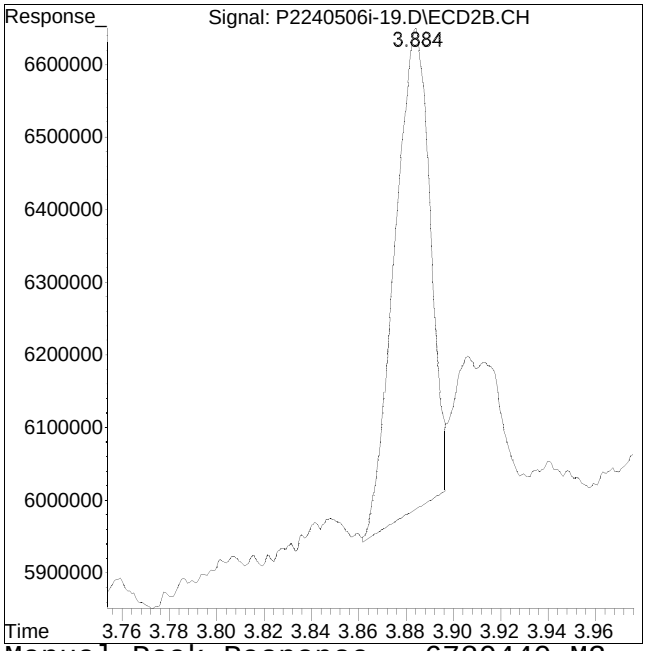
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #64: 1260-5 #2





Original Peak Response = 70814435 Manual Peak Response = 6780440 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 07 May 2024   3:41 pm
Operator : pest2:rmp
Sample   : cicv1660,42,,pp 11459
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	99	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.275	2.7	77	0.00
3	s	Decachlorobiphenyl		0.847	0.950	-12.2	91	0.00
4	l1	1016-1		0.022	0.021	4.5	78	0.00
5	l1	1016-2		0.049	0.048	2.0	79	0.00
6	l1	1016-3		0.101	0.107	-5.9	84	0.00
7	l1	1016-4		0.040	0.042	-5.0	85	0.00
8	l1	1016-5		0.045	0.044	2.2	80	0.00
9	l2	1260-1		0.065	0.067	-3.1	85	0.00
10	l2	1260-2		0.097	0.101	-4.1	84	0.00
11	l2	1260-3		0.060	0.052	13.3	70	0.00
12	l2	1260-4		0.130	0.113	13.1	70	0.00
13	l2	1260-5		0.091	0.082	9.9	73	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	109	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	110	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	105	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	109	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	98	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.232	1.161	5.8	74	0.00
3	s	Decachlorobiphenyl		0.580	0.641	-10.5	91	0.00
4	l1	1016-1		0.021	0.020	4.8	75	0.00
5	l1	1016-2		0.046	0.046	0.0	79	0.00
6	l1	1016-3		0.092	0.088	4.3	77	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 07 May 2024   3:41 pm
Operator : pest2:rmp
Sample   : cicv1660,42,,pp 11459
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
7	l1	1016-4		0.034	0.034	0.0	77	0.00
8	l1	1016-5		0.029	0.026	10.3	71	0.00
9	l2	1260-1		0.054	0.048	11.1	78	0.00
10	l2	1260-2		0.062	0.056	9.7	77	0.00
11	l2	1260-3		0.048	0.044	8.3	74	0.00
12	l2	1260-4		0.096	0.083	13.5	70	0.00
13	l2	1260-5		0.066	0.060	9.1	73	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	110	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	109	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	104	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	111	0.00

Evaluate Continuing Calibration Report - Not Founds

15	l3	1221-2		0.015	0.000	100.0#	0#	-1.51#
16	l3	1221-3		0.00895	0.00000	100.0#	0#	-1.57#
17	l3	1221-4		0.035	0.000	100.0#	0#	-1.58#
18	l4	1254-1		0.050	0.000	100.0#	0#	-2.31#
19	l4	1254-2		0.090	0.000	100.0#	0#	-2.42#
20	l4	1254-3		0.095	0.000	100.0#	0#	-2.60#
21	l4	1254-4		0.067	0.000	100.0#	0#	-2.73#
22	l4	1254-5		0.091	0.000	100.0#	0#	-2.95#
24	l6	1242-1		0.019	0.000	100.0#	0#	-1.58#
25	l6	1242-2		0.040	0.000	100.0#	0#	-1.73#
26	l6	1242-3		0.087	0.000	100.0#	0#	-1.91#
27	l6	1242-4		0.035	0.000	100.0#	0#	-1.97#
28	l6	1242-5		0.027	0.000	100.0#	0#	-2.32#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 07 May 2024   3:41 pm
Operator : pest2:rmp
Sample   : cicv1660,42,,pp 11459
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
29	l9	1268-1	0.181	0.000	100.0#	0#	-3.45#
30	l9	1268-2	0.167	0.000	100.0#	0#	-3.47#
31	l9	1268-3	0.133	0.000	100.0#	0#	-3.57#
32	l9	1268-4	0.058	0.000	100.0#	0#	-3.76#
33	l9	1268-5	0.392	0.000	100.0#	0#	-3.92#
35	l7	1248-1	0.057	0.000	100.0#	0#	-1.91#
36	l7	1248-2	0.074	0.000	100.0#	0#	-2.04#
37	l7	1248-3	0.065	0.000	100.0#	0#	-2.14#
38	l7	1248-4	0.058	0.000	100.0#	0#	-2.32#
39	l7	1248-5	0.050	0.000	100.0#	0#	-2.34#
41	l5	1232-1	0.026	0.000	100.0#	0#	-1.58#
42	l5	1232-2	0.024	0.000	100.0#	0#	-1.73#
43	l5	1232-3	0.050	0.000	100.0#	0#	-1.92#
44	l5	1232-4	0.020	0.000	100.0#	0#	-1.97#
45	l5	1232-5	0.015	0.000	100.0#	0#	-2.32#
46	l8	1262-1	0.070	0.000	100.0#	0#	-2.82#
47	l8	1262-2	0.091	0.000	100.0#	0#	-3.01#
48	l8	1262-3	0.079	0.000	100.0#	0#	-3.13#
49	l8	1262-4	0.160	0.000	100.0#	0#	-3.29#
50	l8	1262-5	0.050	0.000	100.0#	0#	-3.76#
Signal #2							
15	l3	1221-2	0.015	0.000	100.0#	0#	-1.72#
16	l3	1221-3	0.00933	0.00000	100.0#	0#	-1.78#
17	l3	1221-4	0.034	0.000	100.0#	0#	-1.81#
18	l4	1254-1	0.046	0.000	100.0#	0#	-2.65#
19	l4	1254-2	0.052	0.000	100.0#	0#	-2.73#
20	l4	1254-3	0.078	0.000	100.0#	0#	-2.96#
21	l4	1254-4	0.048	0.000	100.0#	0#	-3.07#
22	l4	1254-5	0.071	0.000	100.0#	0#	-3.35#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 07 May 2024   3:41 pm
Operator : pest2:rmp
Sample   : cicv1660,42,,pp 11459
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
24 l6	1242-1	0.017	0.000	100.0#	0#	-1.80#
25 l6	1242-2	0.038	0.000	100.0#	0#	-1.97#
26 l6	1242-3	0.073	0.000	100.0#	0#	-2.18#
27 l6	1242-4	0.029	0.000	100.0#	0#	-2.24#
28 l6	1242-5	0.022	0.000	100.0#	0#	-2.62#
29 l9	1268-1	0.119	0.000	100.0#	0#	-3.88#
30 l9	1268-2	0.110	0.000	100.0#	0#	-3.90#
31 l9	1268-3	0.090	0.000	100.0#	0#	-4.05#
32 l9	1268-4	0.039	0.000	100.0#	0#	-4.20#
33 l9	1268-5	0.245	0.000	100.0#	0#	-4.38#
35 l7	1248-1	0.052	0.000	100.0#	0#	-2.17#
36 l7	1248-2	0.034	0.000	100.0#	0#	-2.32#
37 l7	1248-3	0.043	0.000	100.0#	0#	-2.45#
38 l7	1248-4	0.048	0.000	100.0#	0#	-2.62#
39 l7	1248-5	0.054	0.000	100.0#	0#	-2.65#
41 l5	1232-1	0.025	0.000	100.0#	0#	-1.80#
42 l5	1232-2	0.025	0.000	100.0#	0#	-1.98#
43 l5	1232-3	0.045	0.000	100.0#	0#	-2.18#
44 l5	1232-4	0.018	0.000	100.0#	0#	-2.24#
45 l5	1232-5	0.013	0.000	100.0#	0#	-2.62#
46 l8	1262-1	0.049	0.000	100.0#	0#	-3.16#
47 l8	1262-2	0.065	0.000	100.0#	0#	-3.39#
48 l8	1262-3	0.059	0.000	100.0#	0#	-3.55#
49 l8	1262-4	0.110	0.000	100.0#	0#	-3.68#
50 l8	1262-5	0.039	0.000	100.0#	0#	-4.20#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:41 pm
Operator : pest2:rmp
Sample : cicv1660,42,,pp 11459
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.158	1.227	413.6E6	301.7E6	25.000	25.000
14) i	2154_1br2nb	1.158	1.227	413.6E6	301.7E6	25.000	25.000
23) i	4268_1br2nb	1.158	1.227	413.6E6	301.7E6	25.000	25.000
34) i	1248_1br2nb	1.158	1.227	413.6E6	301.7E6	25.000	25.000
40) i	3262_1br2nb	1.158	1.227	413.6E6	301.7E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.444	1.602	337.4E6	224.1E6	15.558M3	15.077
	Spiked Amount 20.000	Range 30 - 150		Recovery =		77.79%	75.39%
3) s	Decachlorobi	4.021	4.534	502.9E6	247.4E6	35.890	35.352
	Spiked Amount 20.000	Range 30 - 150		Recovery =		179.45%#	176.76%#
	Target Compounds						
4) l1	1016-1	1.583	1.804	87072990	59177890	234.537M3	233.086
5) l1	1016-2	1.725	1.975	199.6E6	137.4E6	245.326M3	246.318
6) l1	1016-3	1.915	2.176	442.9E6	266.4E6	264.722M4	238.852
7) l1	1016-4	1.970	2.236	175.5E6	101.6E6	263.118M3	246.165M3
8) l1	1016-5	2.141	2.447	180.9E6	78078033	244.472M4	223.279M4
	Sum 1016-1			1086.0E6	642.6E6	1252.176	1187.700
	Average 1016-1					250.435	237.540
9) l2	1260-1	2.686	3.058	275.6E6	143.8E6	258.098	220.798M4
10) l2	1260-2	2.816	3.159	415.7E6	168.9E6	258.251M3	226.712M4
11) l2	1260-3	3.132	3.553	213.9E6	132.2E6	213.888M4	228.710

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:41 pm
Operator : pest2:rmp
Sample : cicv1660,42,,pp 11459
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12) l2	1260-4	3.288	3.682	465.4E6	249.7E6	217.191M3	214.943
13) l2	1260-5	3.436	3.885	339.8E6	181.9E6	226.233M4	228.376
Sum	1260-1			1710.4E6	876.4E6	1173.661	1119.539
Average	1260-1					234.732	223.908
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:41 pm
Operator : pest2:rmp
Sample : cicv1660,42,,pp 11459
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:41 pm
Operator : pest2:rmp
Sample : cicv1660,42,,pp 11459
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

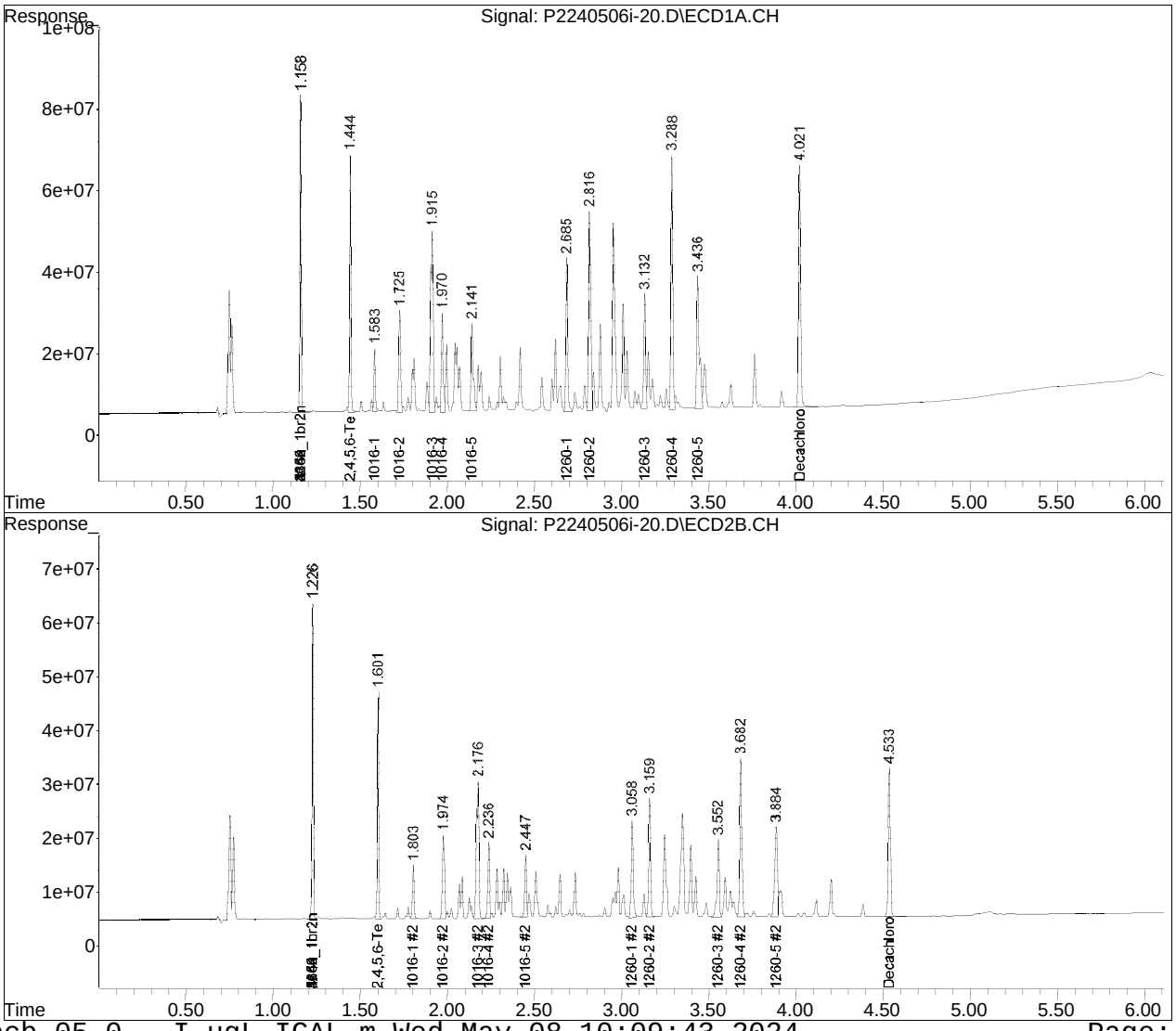
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:41 pm
Operator : pest2:rmp
Sample : cicv1660,42,,pp 11459
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

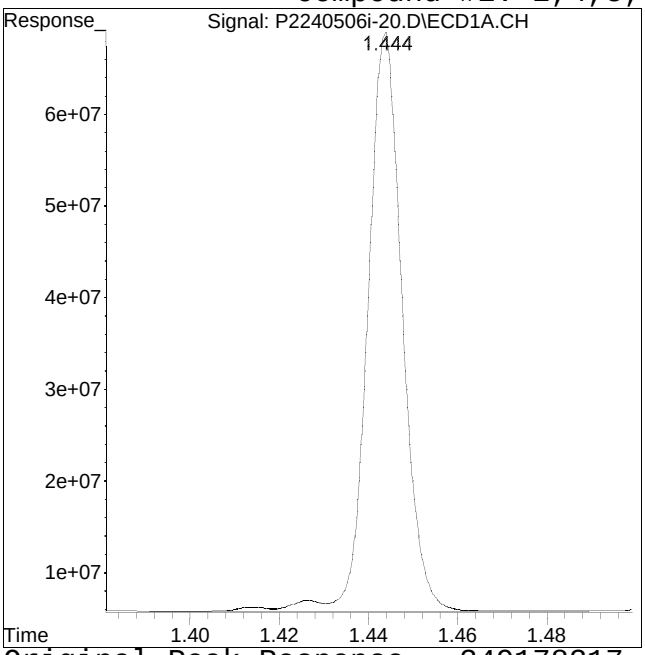
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

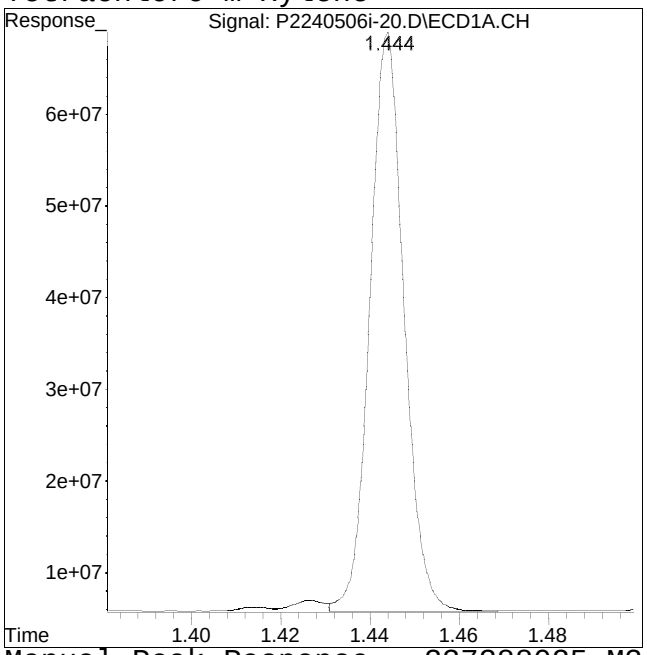


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



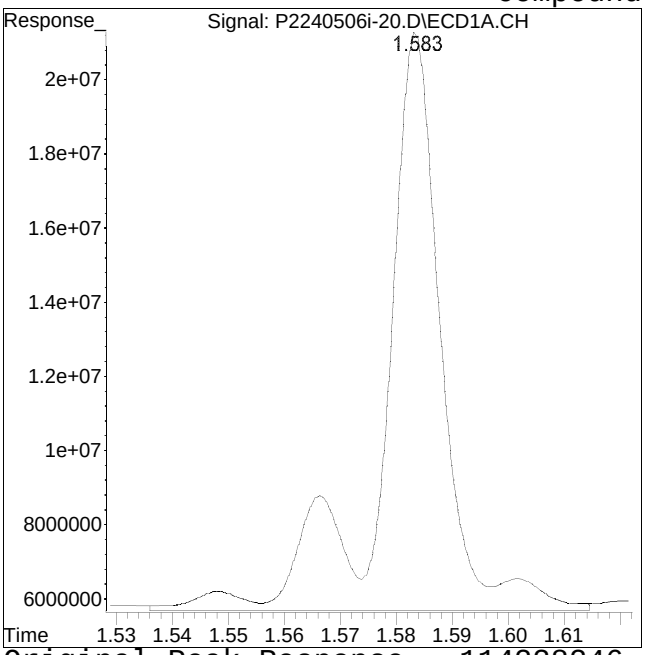


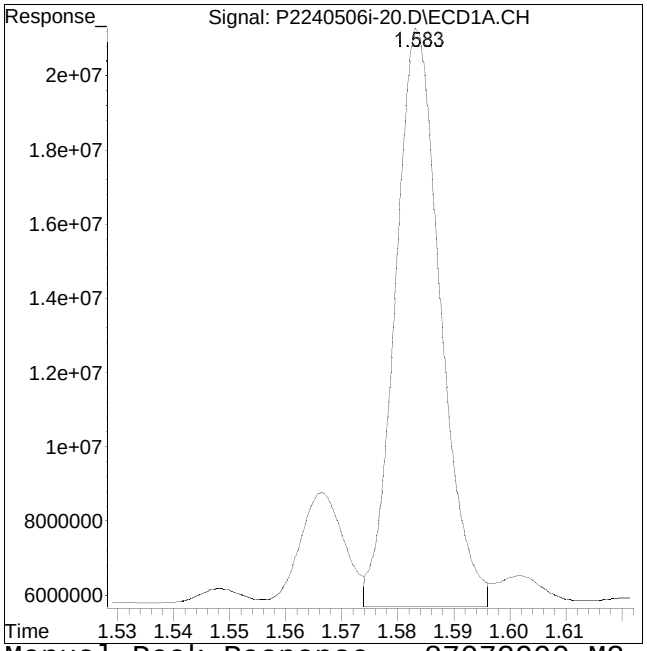
Original Peak Response = 349178317 Manual Peak Response = 337388025 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #4: 1016-1



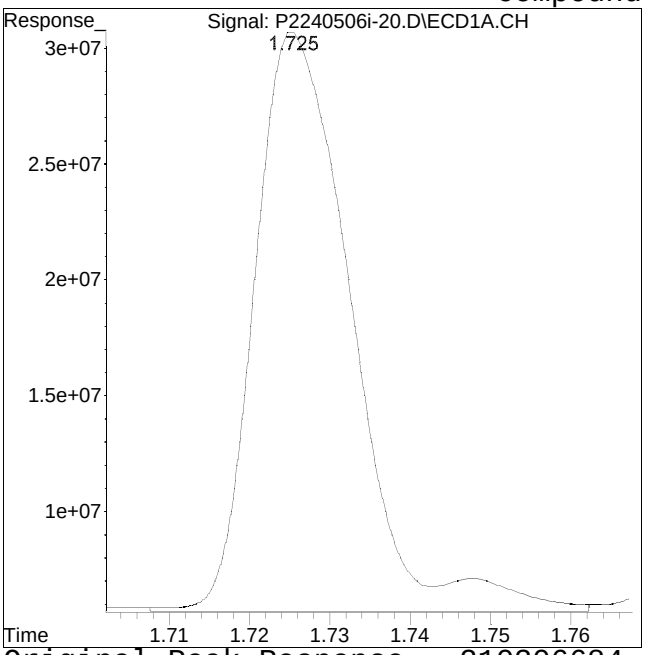


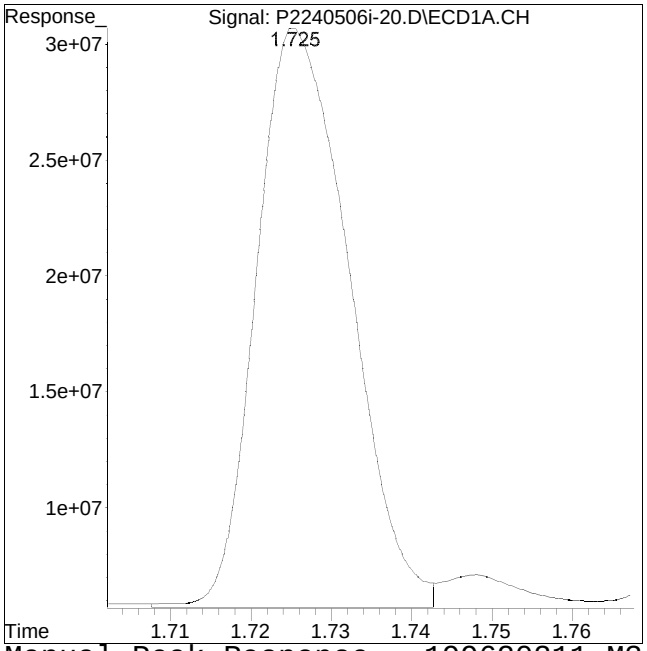
Original Peak Response = 114228246 Manual Peak Response = 87072990 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #5: 1016-2



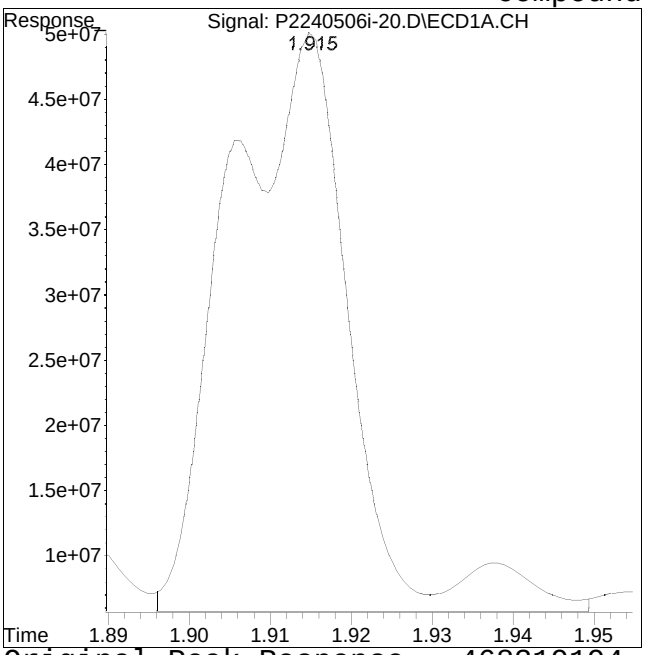


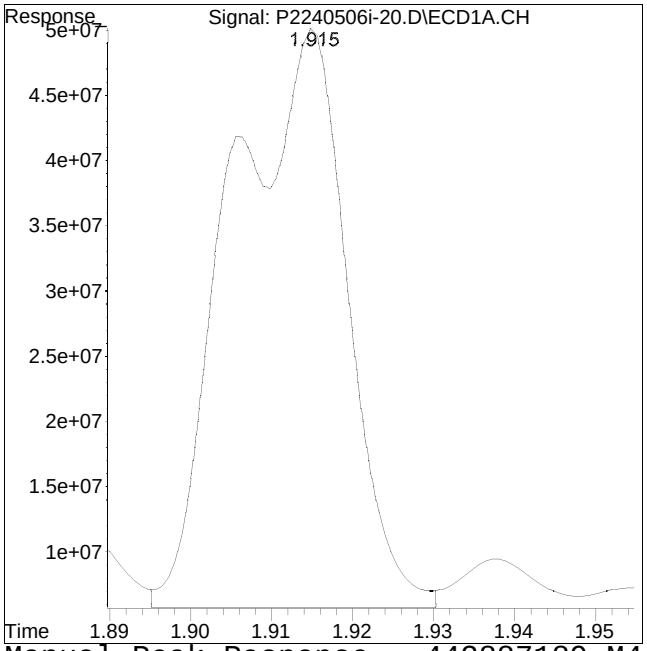
Original Peak Response = 210306684 Manual Peak Response = 199620211 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #6: 1016-3



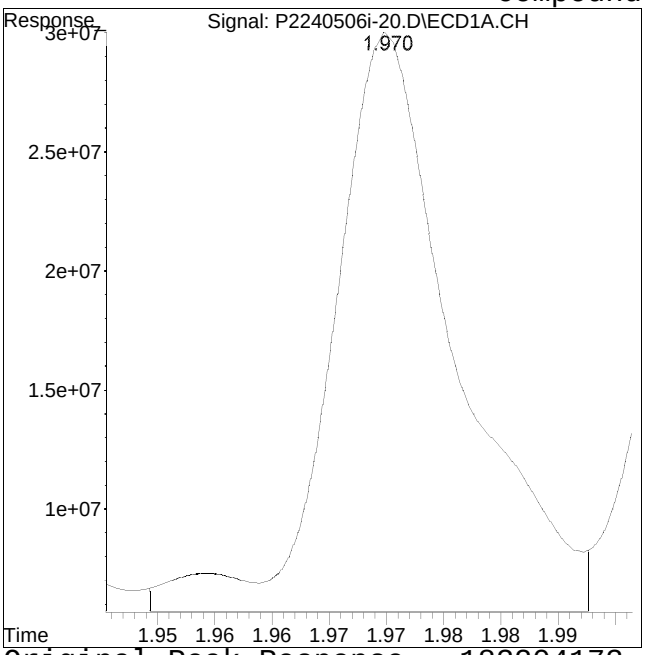


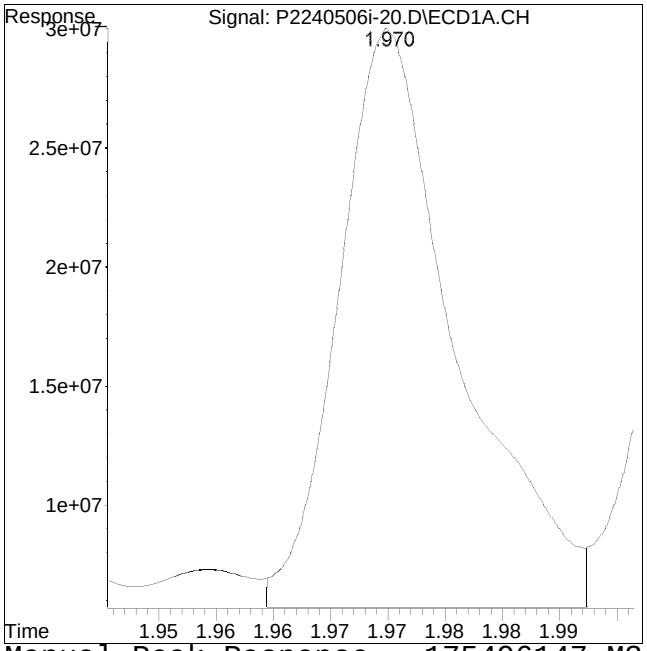
Original Peak Response = 468319194 Manual Peak Response = 442887189 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #7: 1016-4



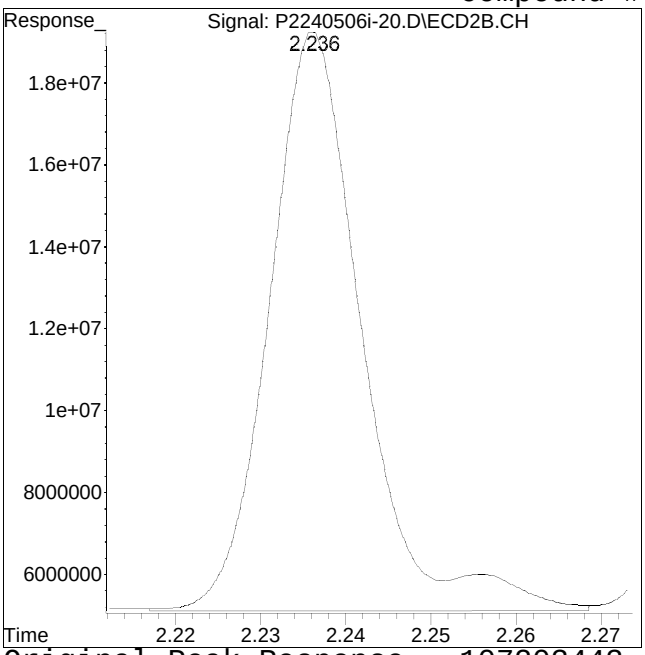


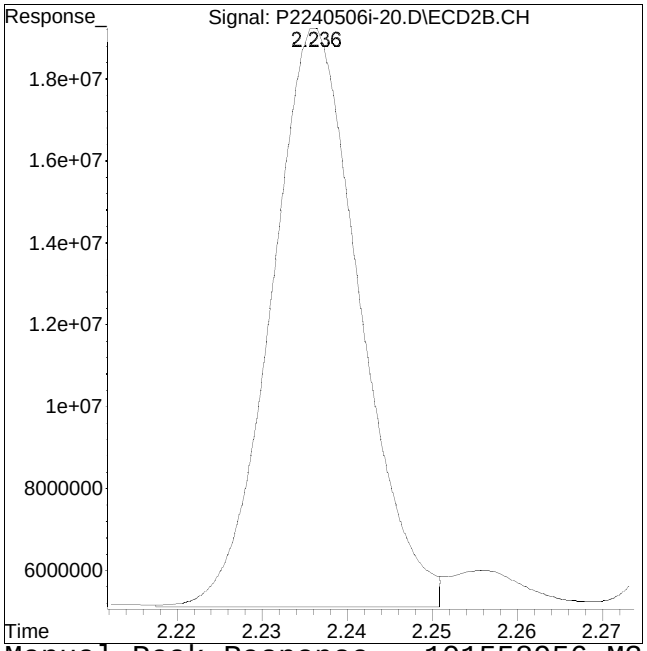
Original Peak Response = 183204173 Manual Peak Response = 175496147 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #58: 1016-4 #2



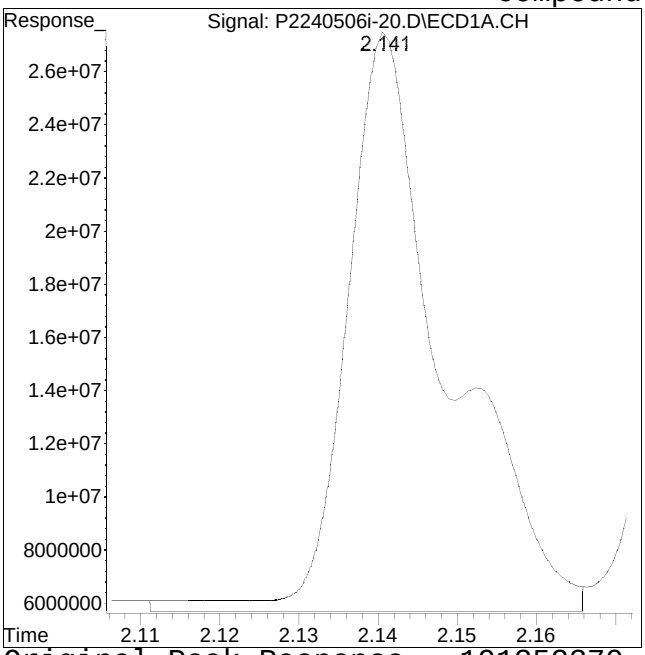


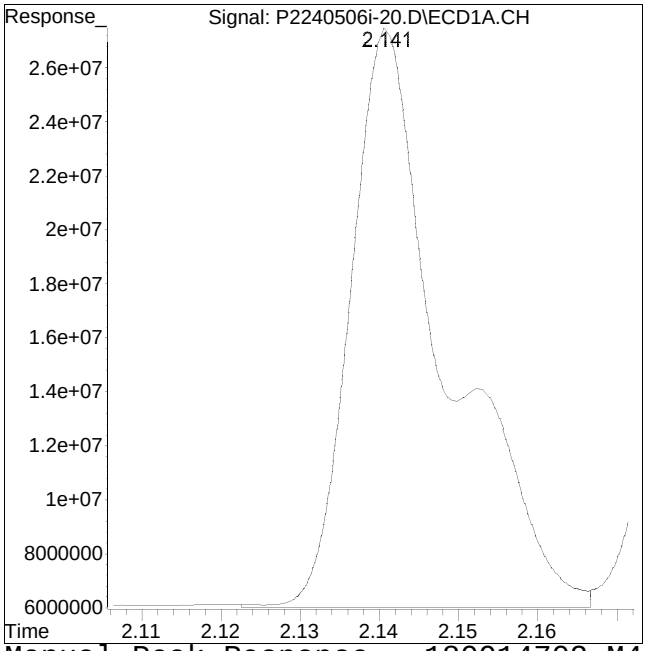
Original Peak Response = 107203443 Manual Peak Response = 101558956 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #8: 1016-5



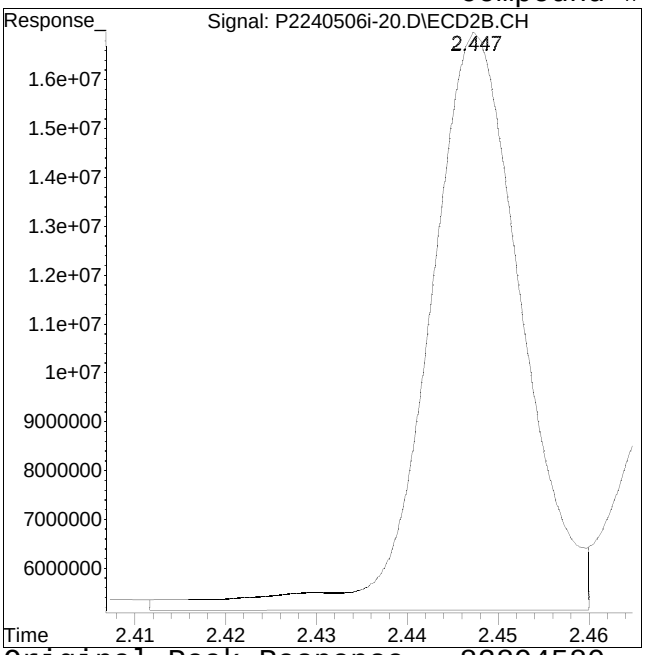


Original Peak Response = 191352370 Manual Peak Response = 180914702 M4
M4 = Poor automated baseline construction.

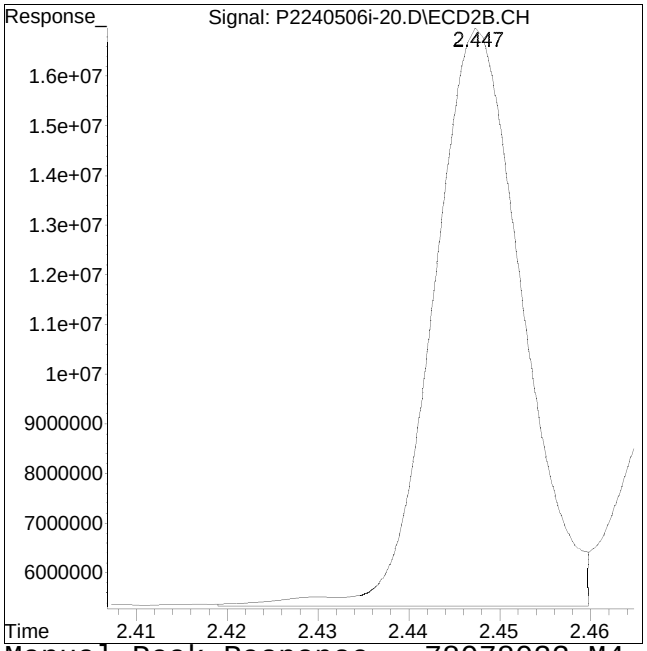
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #59: 1016-5 #2



Original Peak Response = 83894580



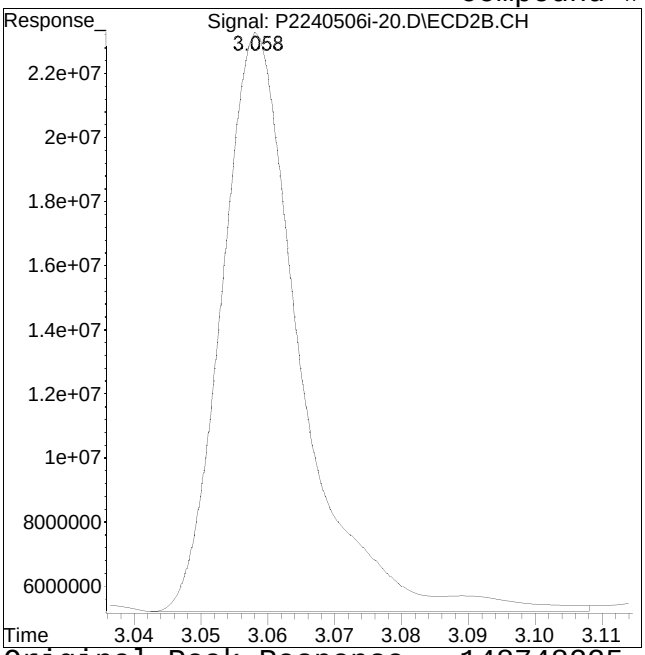
Manual Peak Response = 78078033 M4

M4 = Poor automated baseline construction.

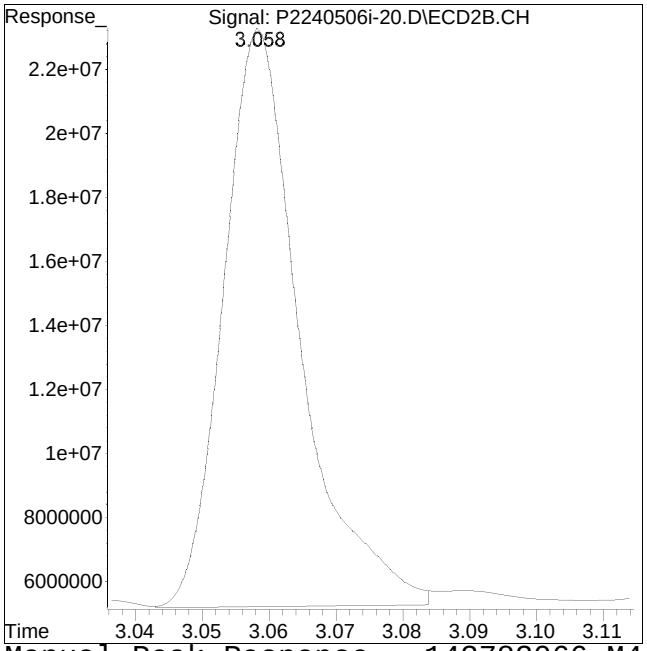
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #60: 1260-1 #2



Original Peak Response = 148748225



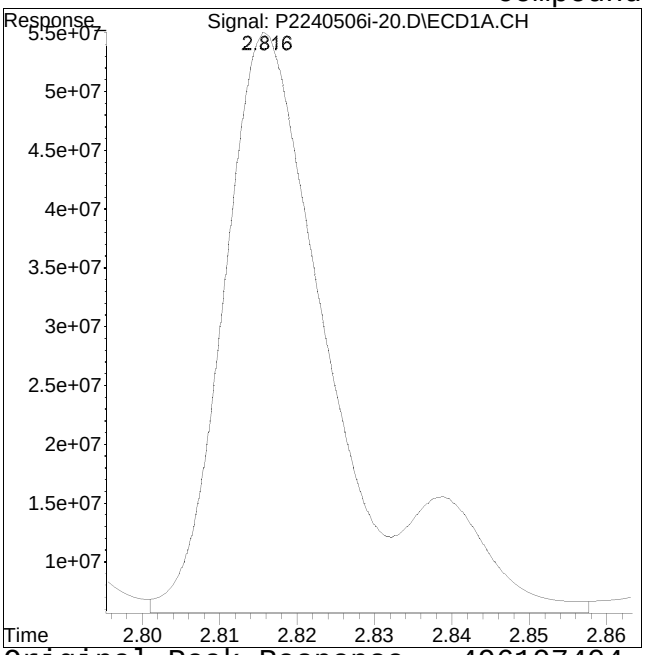
Manual Peak Response = 143783066 M4

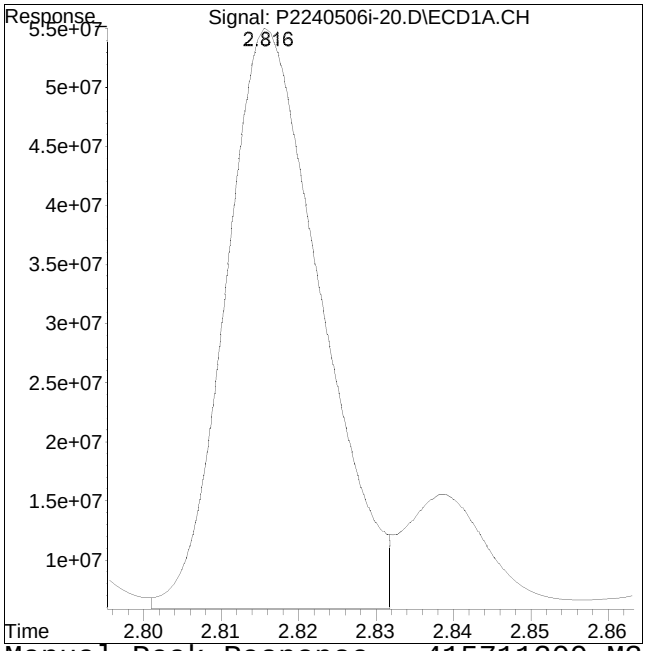
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #10: 1260-2



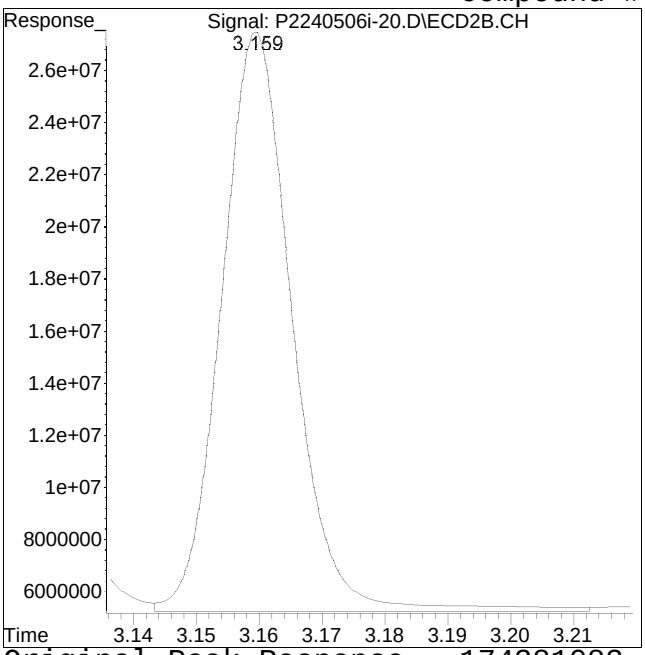


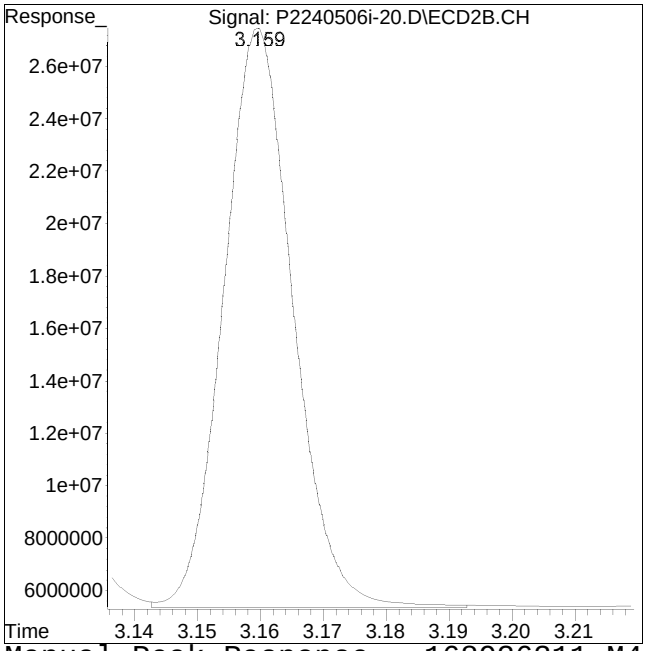
Original Peak Response = 496107404 Manual Peak Response = 415711200 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #61: 1260-2 #2



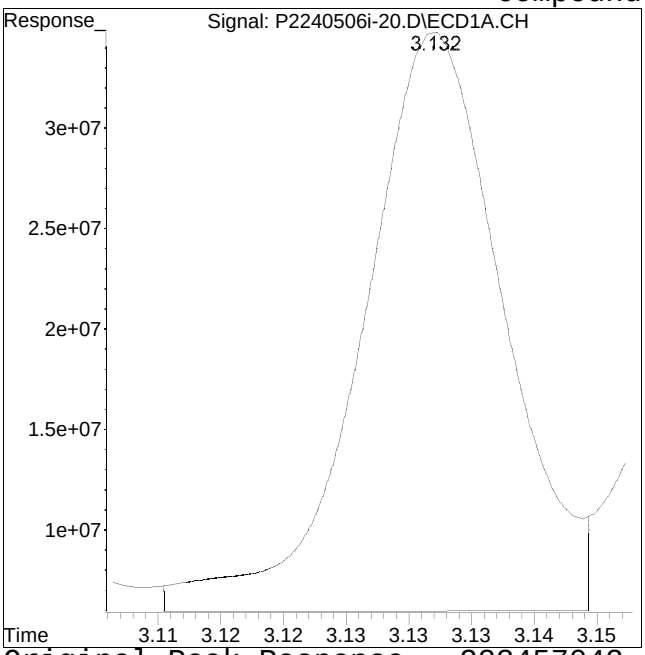


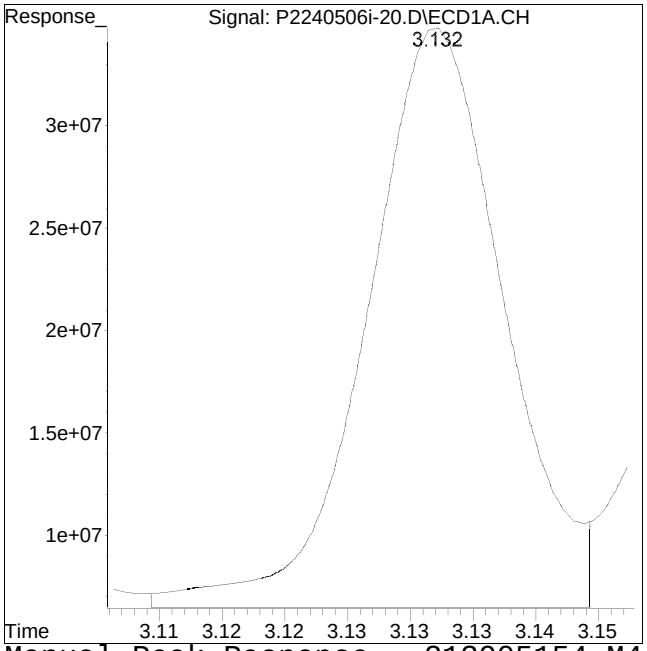
Original Peak Response = 174381083 Manual Peak Response = 168936311 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #11: 1260-3



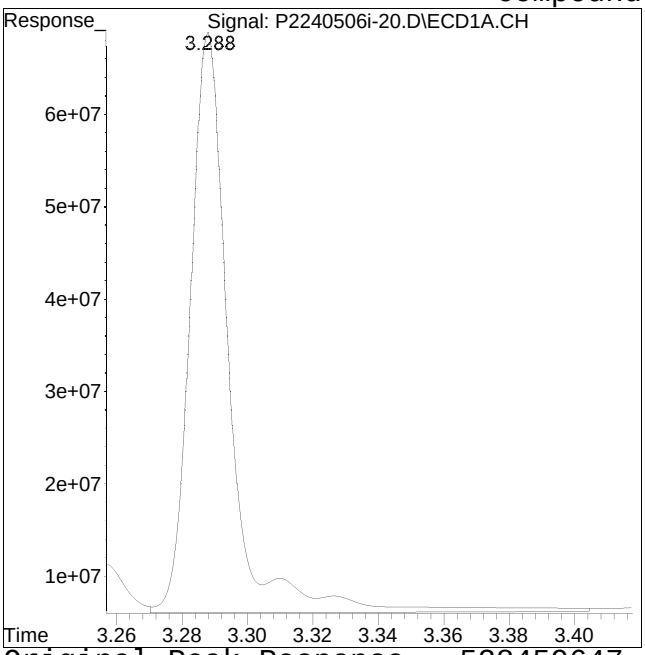


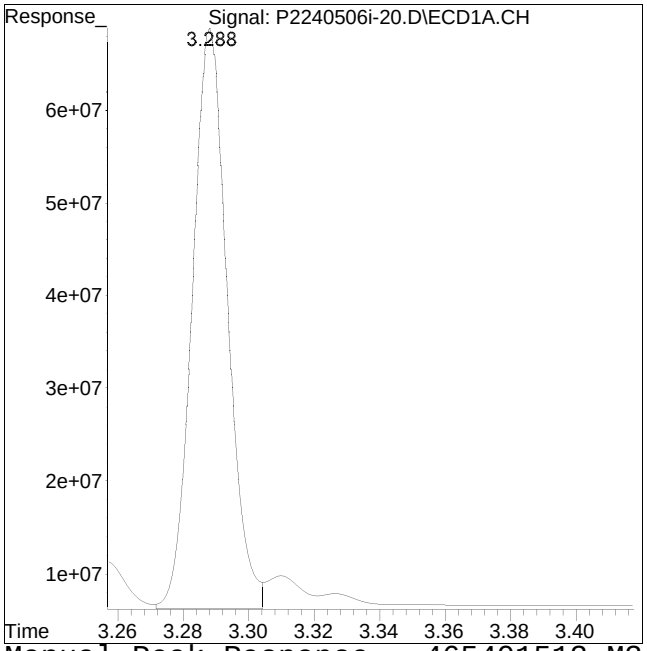
Original Peak Response = 223457042 Manual Peak Response = 213905154 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #12: 1260-4



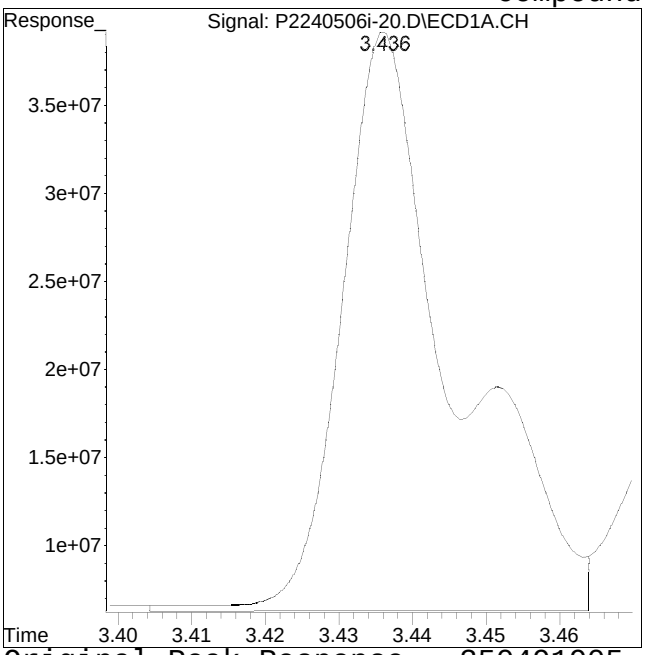


Original Peak Response = 528459647 Manual Peak Response = 465401513 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

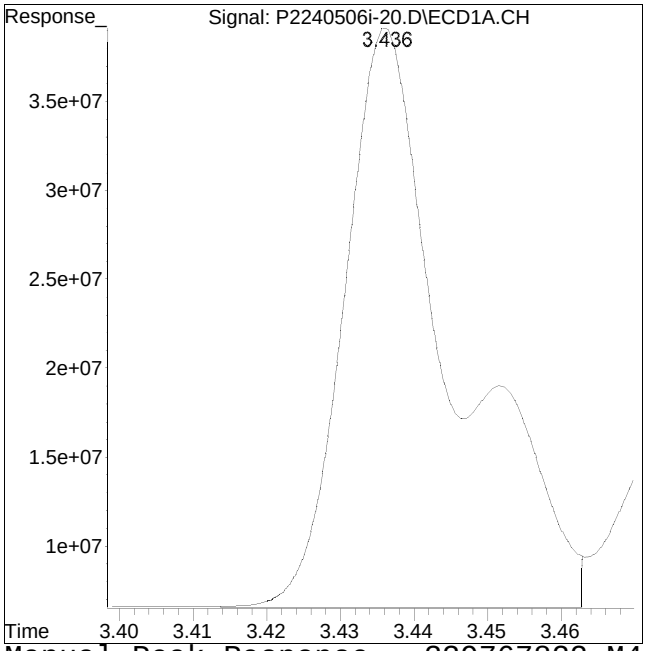
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #13: 1260-5



Original Peak Response = 350491905



Manual Peak Response = 339767822 M4
M4 = Poor automated baseline construction.

Continuing Calibration

Calibration Verification Summary
Form 7
PCBs

Client	: Alpha Geoscience		**Lab Number**	: L2430219	
Project Name	: HUNTINGTON READY MIXED		**Project Number**	: 20116	
Instrument ID	: PEST2		**Calibration Date**	: 06/06/24 23:14	
Lab File ID	: P2240606a-29		**Init. Calib. Date(s)**	: 05/06/24	05/07/24
Sample No	: WG1930475-5		**Init. Calib. Times**	: 20:49	15:31
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb	1	1	-	0	20	118	0
2,4,5,6-Tetrachloro-m-xylen	1.311	1.466	-	-11.8	20	105	0
Decachlorobiphenyl	0.847	0.816	-	3.7	20	93	0
1016-1	0.022	0.02	-	9.1	20	86	0
1016-2	0.049	0.046	-	6.1	20	89	0
1016-3	0.101	0.102	-	-1	20	95	0
1016-4	0.04	0.042	-	-5	20	100	0
1016-5	0.045	0.041	-	8.9	20	89	0
1260-1	0.065	0.059	-	9.2	20	90	0
1260-2	0.097	0.094	-	3.1	20	94	0
1260-3	0.06	0.048	-	20	20	77	0
1260-4	0.13	0.103	-	20.8*	20	76	0
1260-5	0.091	0.074	-	18.7	20	79	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
PCBs

Client	: Alpha Geoscience		**Lab Number**	: L2430219	
Project Name	: HUNTINGTON READY MIXED		**Project Number**	: 20116	
Instrument ID	: PEST2		**Calibration Date**	: 06/06/24 23:14	
Lab File ID	: P2240606a-29		**Init. Calib. Date(s)**	: 05/06/24	05/07/24
Sample No	: WG1930475-5		**Init. Calib. Times**	: 20:49	15:31
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb #2	1	1	-	0	20	103	0
2,4,5,6-Tetrachloro-m-xylen	1.232	1.147	-	6.9	20	76	0
Decachlorobiphenyl #2	0.58	0.729	-	-25.7*	20	109	0
1016-1 #2	0.021	0.02	-	4.8	20	79	0
1016-2 #2	0.046	0.046	-	0	20	84	0
1016-3 #2	0.092	0.092	-	0	20	84	0
1016-4 #2	0.034	0.035	-	-2.9	20	84	0
1016-5 #2	0.029	0.03	-	-3.4	20	86	0
1260-1 #2	0.054	0.052	-	3.7	20	89	0
1260-2 #2	0.062	0.065	-	-4.8	20	93	0
1260-3 #2	0.048	0.048	-	0	20	85	0
1260-4 #2	0.096	0.092	-	4.2	20	81	0
1260-5 #2	0.066	0.068	-	-3	20	86	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: PEST2	**Calibration Date**	: 06/07/24 07:03		
Lab File ID	: P2240607a-03	**Init. Calib. Date(s)**	: 05/06/24	05/07/24	
Sample No	: WG1931015-2	**Init. Calib. Times**	: 20:49	15:31	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb	1	1	-	0	20	118	0
2,4,5,6-Tetrachloro-m-xylen	1.311	1.191	-	9.2	20	85	0
Decachlorobiphenyl	0.847	0.819	-	3.3	20	94	.04
2154_1br2nb	1	1	-	0	20	129	0
1221-2	0.015	0.012	-	20	20	104	0
1221-3	0.00895	0.00722	-	19.3	20	104	.01
1221-4	0.035	0.026	-	25.7*	20	98	.01
1254-1	0.05	0.041	-	18	20	105	.04
1254-2	0.09	0.075	-	16.7	20	109	.04
1254-3	0.095	0.081	-	14.7	20	110	.04
1254-4	0.067	0.055	-	17.9	20	107	.04
1254-5	0.091	0.073	-	19.8	20	104	.04
4268_1br2nb	1	1	-	0	20	131	0
1248_1br2nb	1	1	-	0	20	124	0
3262_1br2nb	1	1	-	0	20	130	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: PEST2	**Calibration Date**	: 06/07/24 07:03		
Lab File ID	: P2240607a-03	**Init. Calib. Date(s)**	: 05/06/24	05/07/24	
Sample No	: WG1931015-2	**Init. Calib. Times**	: 20:49	15:31	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb	1	1	-	0	20	114	0
2,4,5,6-Tetrachloro-m-xyl	1.232	1.115	-	9.5	20	83	0
Decachlorobiphenyl	0.58	0.658	-	-13.4	20	109	.04
2154_1br2nb	1	1	-	0	20	129	0
1221-2	0.015	0.012	-	20	20	98	0
1221-3	0.00933	0.00717	-	23.2*	20	99	0
1221-4	0.034	0.027	-	20.6*	20	102	0
1254-1	0.046	0.04	-	13	20	112	.03
1254-2	0.052	0.044	-	15.4	20	108	.03
1254-3	0.078	0.07	-	10.3	20	116	.03
1254-4	0.048	0.044	-	8.3	20	119	.03
1254-5	0.071	0.059	-	16.9	20	107	.03
4268_1br2nb	1	1	-	0	20	127	0
1248_1br2nb	1	1	-	0	20	122	0
3262_1br2nb	1	1	-	0	20	130	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240606A\
Data File : P2240606a-29.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Jun 2024 23:14
Operator : pest2:mhg
Sample : WG1930475-5,42,,+1660 pp11459 lvi icv (Sig #1); +1660 pp11459 lvi icv (Sig #2)
Misc : WG1930475,,ical21102
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 23:34:45 2024
Quant Method : I:\PCB\Pest2\2024\240606A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	118	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.466	-11.8	105	0.00
3	s	Decachlorobiphenyl		0.847	0.816	3.7	93	0.00
4	l1	1016-1		0.022	0.020	9.1	86	0.00
5	l1	1016-2		0.049	0.046	6.1	89	0.00
6	l1	1016-3		0.101	0.102	-1.0	95	0.00
7	l1	1016-4		0.040	0.042	-5.0	100	0.00
8	l1	1016-5		0.045	0.041	8.9	89	0.00
9	l2	1260-1		0.065	0.059	9.2	90	0.00
10	l2	1260-2		0.097	0.094	3.1	94	0.00
11	l2	1260-3		0.060	0.048	20.0	77	0.00
12	l2	1260-4		0.130	0.103	20.8#	76	0.00
13	l2	1260-5		0.091	0.074	18.7	79	0.00
52	i	1660_1br2nb #2	^	1.000	1.000	0.0	103	0.00
53	s	2,4,5,6-Tetrachloro-m-xylen		1.232	1.147	6.9	76	0.00
54	s	Decachlorobiphenyl #2		0.580	0.729	-25.7#	109	0.00
55	l1	1016-1 #2		0.021	0.020	4.8	79	0.00
56	l1	1016-2 #2		0.046	0.046	0.0	84	0.00
57	l1	1016-3 #2		0.092	0.092	0.0	84	0.00
58	l1	1016-4 #2		0.034	0.035	-2.9	84	0.00
59	l1	1016-5 #2		0.029	0.030	-3.4	86	0.00
60	l2	1260-1 #2		0.054	0.052	3.7	89	0.00
61	l2	1260-2 #2		0.062	0.065	-4.8	93	0.00
62	l2	1260-3 #2		0.048	0.048	0.0	85	0.00
63	l2	1260-4 #2		0.096	0.092	4.2	81	0.00
64	l2	1260-5 #2		0.066	0.068	-3.0	86	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240606A\
Data File : P2240606a-29.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 Jun 2024 23:14
Operator : pest2:mhg
Sample   : WG1930475-5,42,,+1660 pp11459 lvi icv (Sig #1); +1660 pp11459 lvi icv (Sig #2)
Misc   : WG1930475,,ical21102
ALS Vial : 29 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 23:34:45 2024
Quant Method : I:\PCB\Pest2\2024\240606A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240606A\
Data File : P2240606a-29.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Jun 2024 23:14
Operator : pest2:mhg
Sample : WG1930475-5,42,,+1660 pp11459 lvi icv (Sig #1); +1660 pp11459 lvi icv (Sig #2)
Misc : WG1930475,,ical21102
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 23:34:45 2024
Quant Method : I:\PCB\Pest2\2024\240606A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.155	1.224	492.0E6	317.0E6	25.000M3	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.441	1.598	461.6E6	232.7E6	17.894	14.904
	Spiked Amount	20.000	Range 30 - 150		Recovery =	89.47%	74.52%
3) s	Decachlorobi	4.017	4.527	513.9E6	295.7E6	30.831	40.208
	Spiked Amount	20.000	Range 30 - 150		Recovery =	154.16%#	201.04%#
	Target Compounds						
4) l1	1016-1	1.580	1.800	96450788	62471831	218.411M4	234.184
5) l1	1016-2	1.722	1.971	224.1E6	146.8E6	231.519M4	250.496
6) l1	1016-3	1.911	2.172	500.1E6	291.9E6	251.280M3	249.064
7) l1	1016-4	1.966	2.231	207.4E6	111.5E6	261.368M4	257.163M3
8) l1	1016-5	2.137	2.443	201.7E6	94978804	229.175M4	258.500
	Sum 1016-1			1229.7E6	707.6E6	1191.754	1249.407
	Average 1016-1					238.351	249.881
9) l2	1260-1	2.681	3.052	292.4E6	163.9E6	230.187M3	239.578M4
10) l2	1260-2	2.812	3.153	460.9E6	206.4E6	240.711M3	263.662M3
11) l2	1260-3	3.128	3.546	236.1E6	150.7E6	198.446M3	248.191M4
12) l2	1260-4	3.284	3.675	505.4E6	292.4E6	198.293M3	239.617M3

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240606A\
Data File : P2240606a-29.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Jun 2024 23:14
Operator : pest2:mhg
Sample : WG1930475-5,42,,+1660 pp11459 lvi icv (Sig #1); +1660 pp11459 lvi icv (Sig #2)
Misc : WG1930475,,ical21102
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 23:34:45 2024
Quant Method : I:\PCB\Pest2\2024\240606A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13) l2 1260-5	3.432	3.878	365.8E6	216.1E6	204.781M3	258.301
Sum 1260-1			1860.6E6	1029.6E6	1072.417	1249.348
Average 1260-1					214.483	249.870
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240606A\
Data File : P2240606a-29.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Jun 2024 23:14
Operator : pest2:mhg
Sample : WG1930475-5,42,,+1660 pp11459 lvi icv (Sig #1); +1660 pp11459 lvi icv (Sig #2)
Misc : WG1930475,,ical21102
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 23:34:45 2024
Quant Method : I:\PCB\Pest2\2024\240606A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

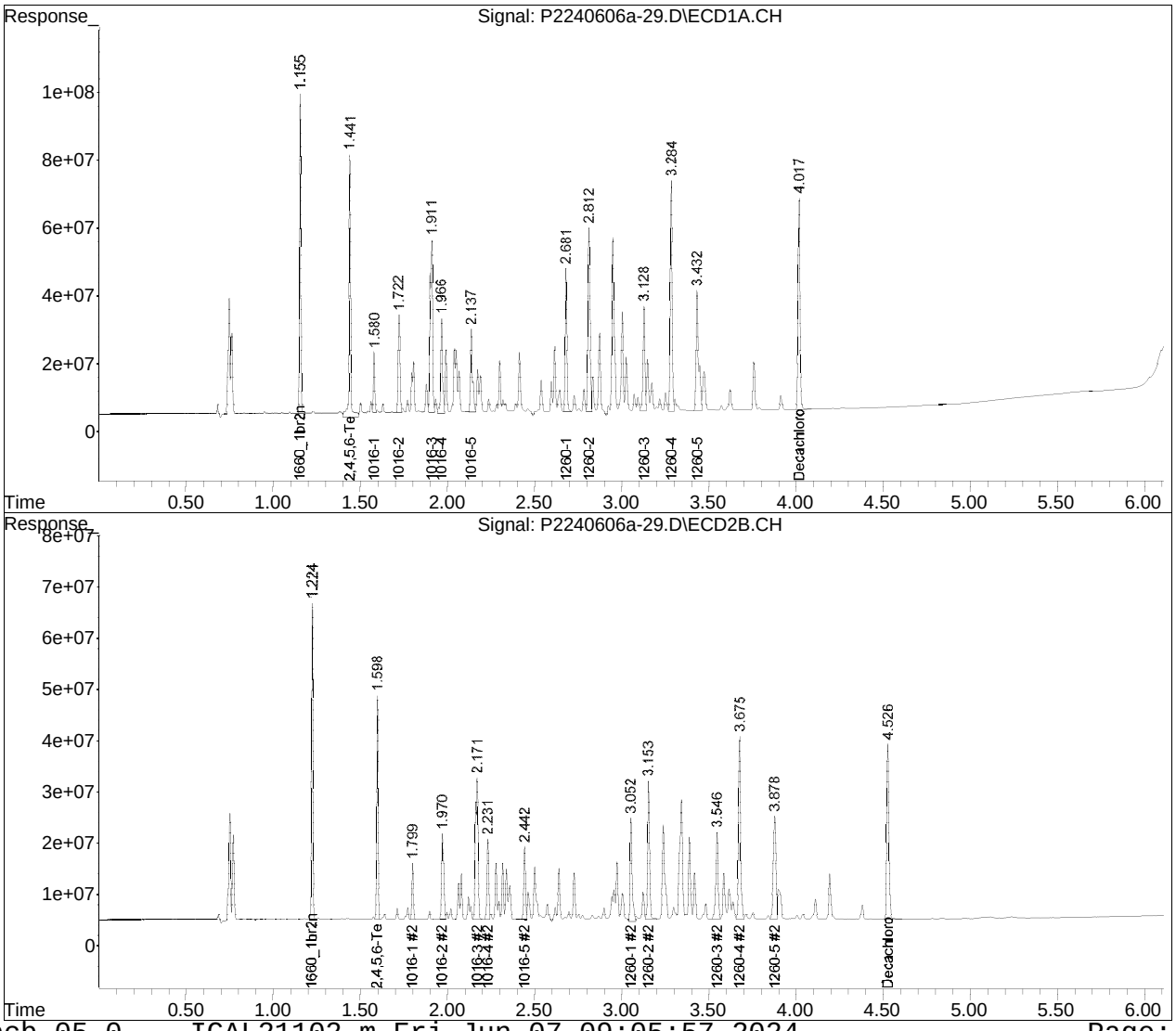
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660ation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240606A\
Data File : P2240606a-29.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Jun 2024 23:14
Operator : pest2:mhg
Sample : WG1930475-5,42,,+1660 pp11459 lvi icv (Sig #1); +1660 pp11459 lvi
Misc : WG1930475,,ical21102
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 23:34:45 2024
Quant Method : I:\PCB\Pest2\2024\240606A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

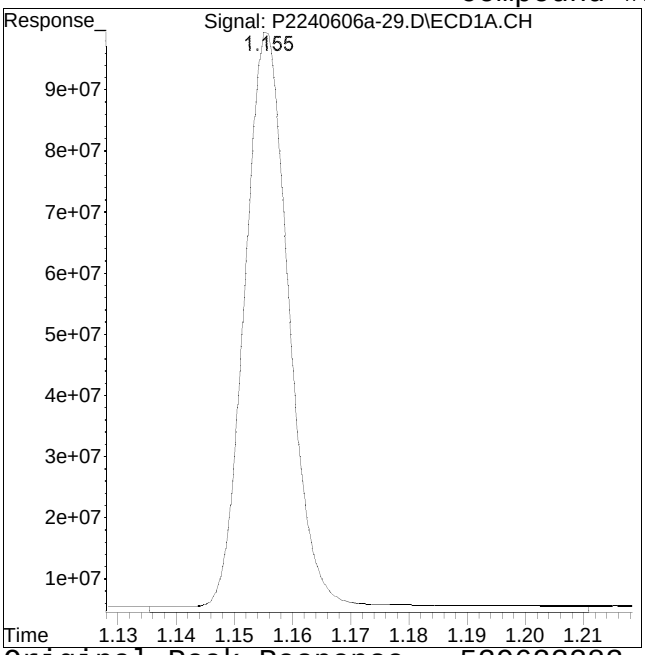
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

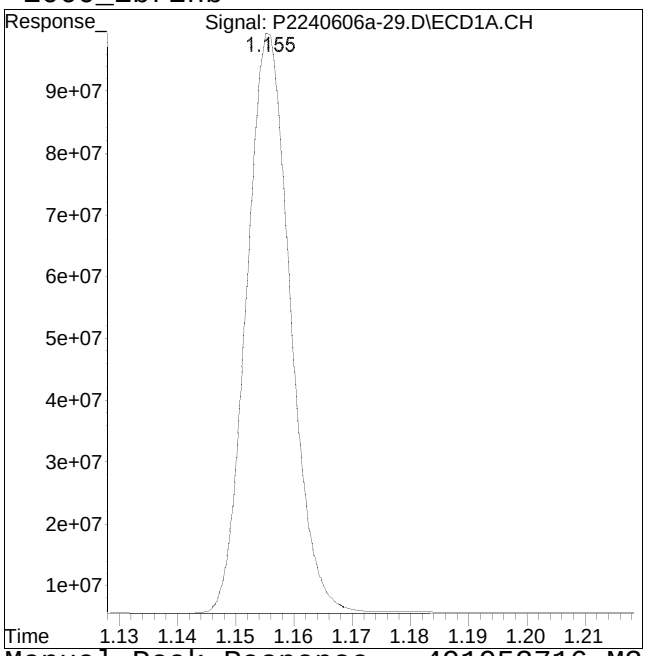


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-29.D Operator : pest2:mhg
Date Inj'd : 6/6/2024 23:14 Instrument : Pest 2
Sample : WG1930475-5,42,,+1660 pp11Quant Date : 6/6/2024 11:34 pm

Compound #1: 1660_1br2nb



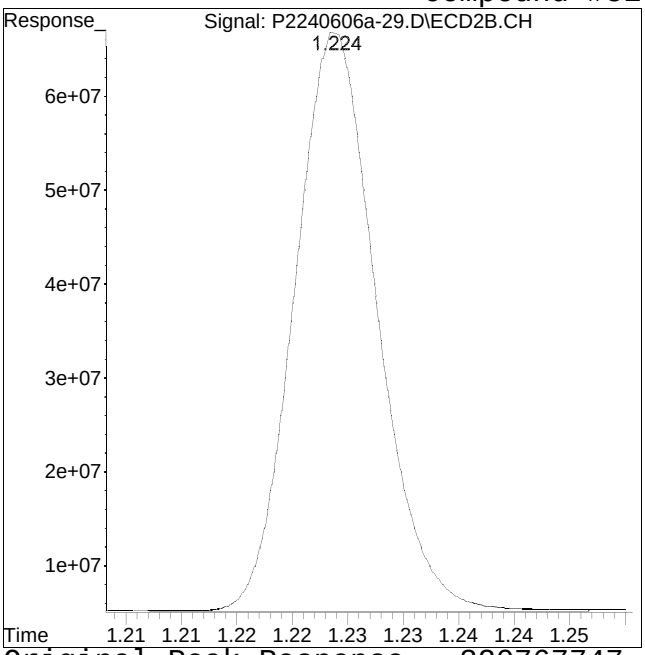


Original Peak Response = 539623383 Manual Peak Response = 491953716 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

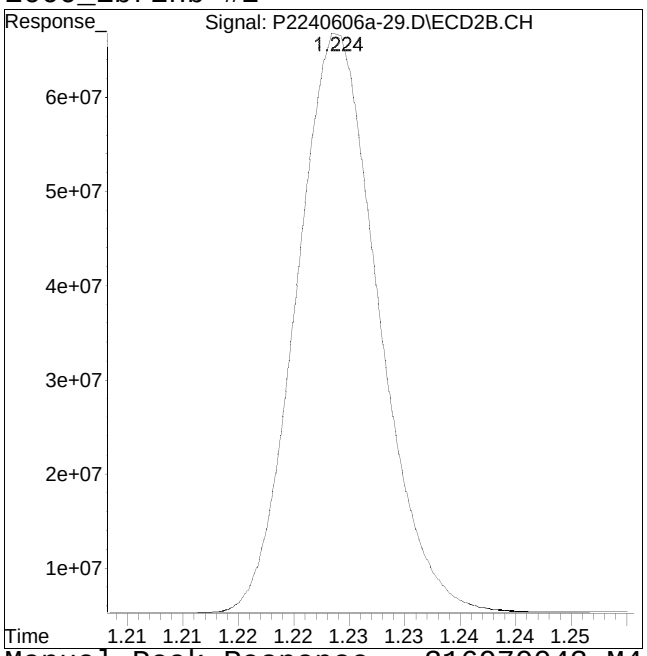
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-29.D Operator : pest2:mhg
Date Inj'd : 6/6/2024 23:14 Instrument : Pest 2
Sample : WG1930475-5,42,,+1660 pp11Quant Date : 6/6/2024 11:34 pm

Compound #52: 1660_1br2nb #2



Original Peak Response = 320767747



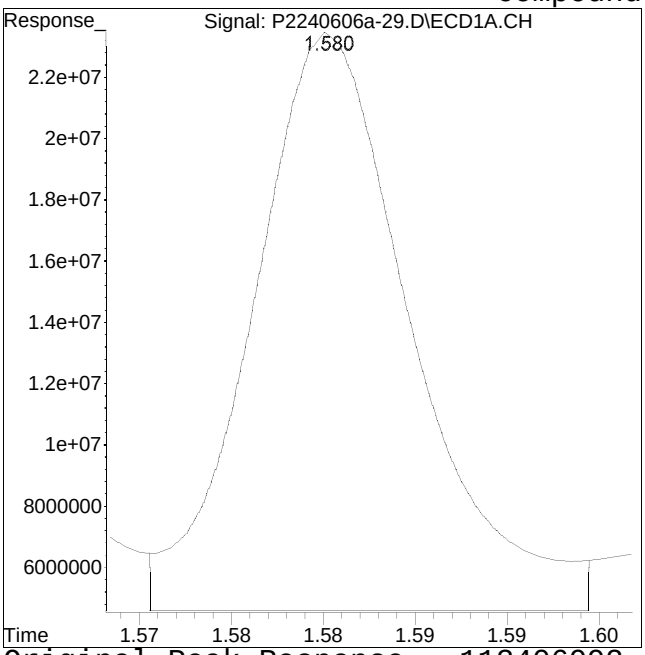
Manual Peak Response = 316970043 M4

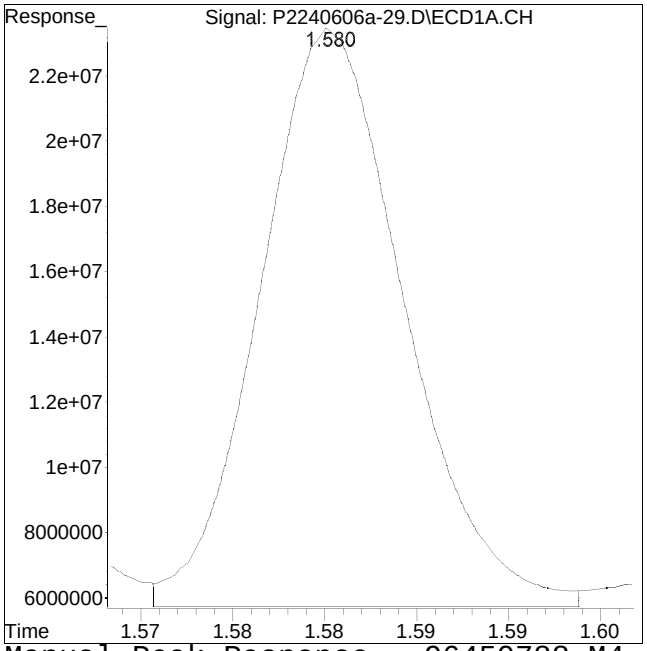
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-29.D Operator : pest2:mhg
Date Inj'd : 6/6/2024 23:14 Instrument : Pest 2
Sample : WG1930475-5,42,,+1660 pp11Quant Date : 6/6/2024 11:34 pm

Compound #4: 1016-1



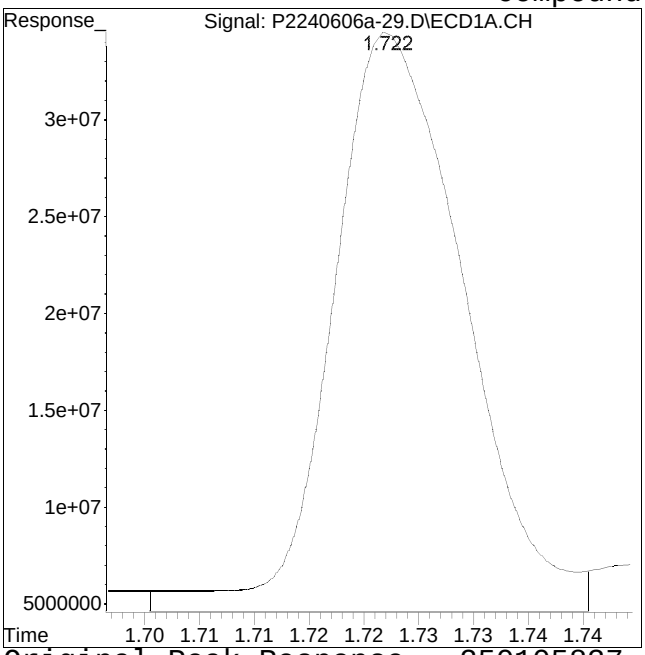


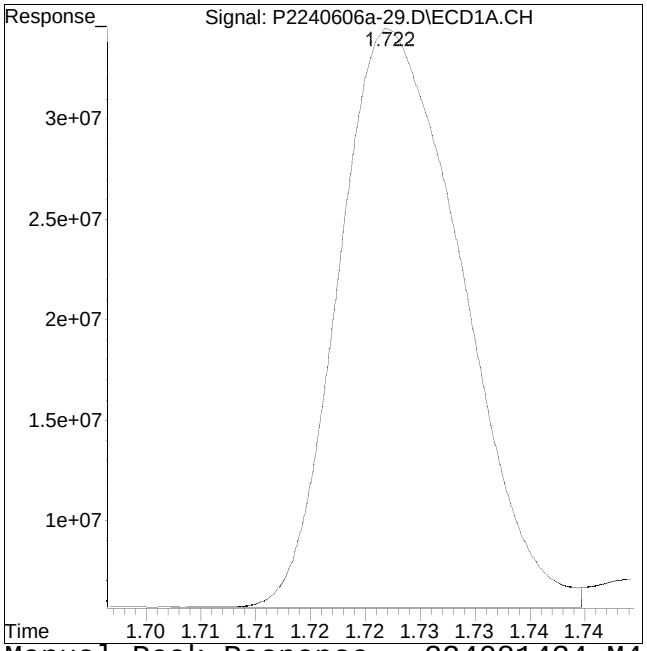
Original Peak Response = 113406992 Manual Peak Response = 96450788 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-29.D Operator : pest2:mhg
Date Inj'd : 6/6/2024 23:14 Instrument : Pest 2
Sample : WG1930475-5,42,,+1660 pp11Quant Date : 6/6/2024 11:34 pm

Compound #5: 1016-2



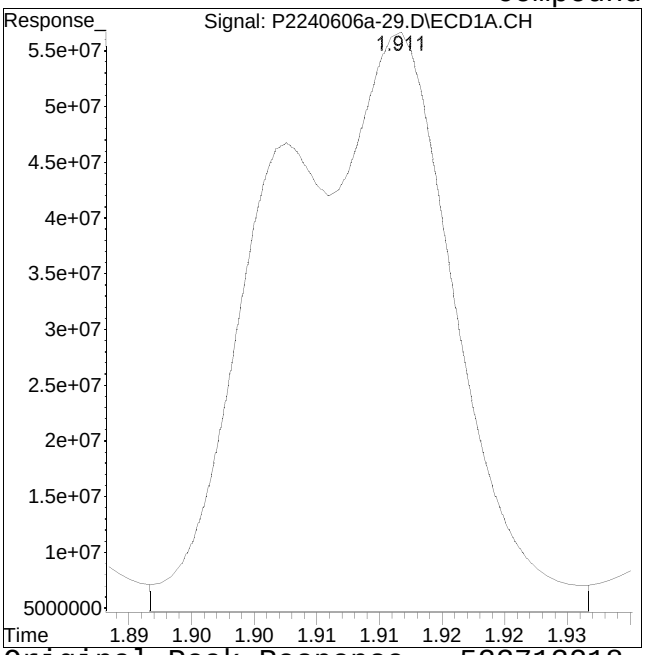


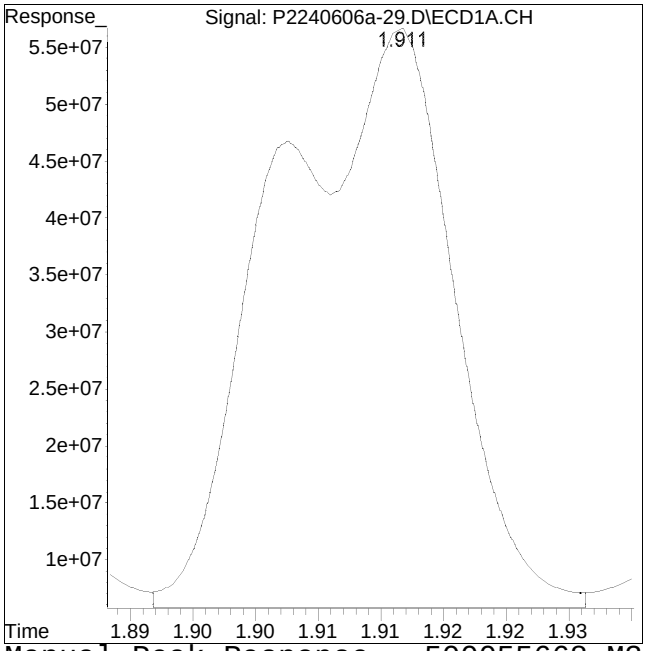
Original Peak Response = 250105837 Manual Peak Response = 224081434 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-29.D Operator : pest2:mhg
Date Inj'd : 6/6/2024 23:14 Instrument : Pest 2
Sample : WG1930475-5,42,,+1660 pp11Quant Date : 6/6/2024 11:34 pm

Compound #6: 1016-3



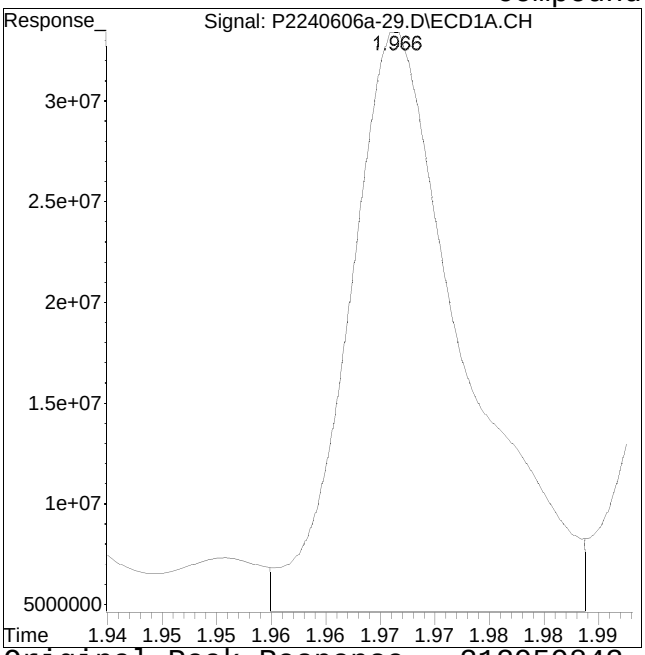


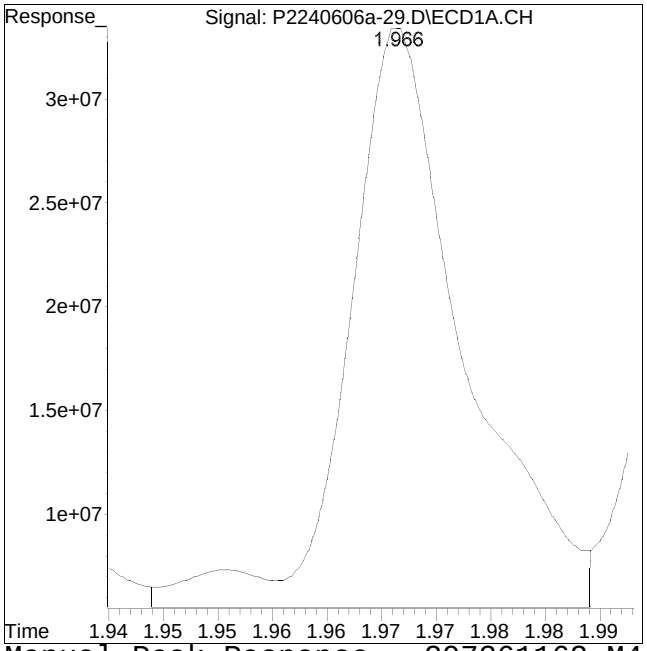
Original Peak Response = 523713218 Manual Peak Response = 500055668 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-29.D Operator : pest2:mhg
Date Inj'd : 6/6/2024 23:14 Instrument : Pest 2
Sample : WG1930475-5,42,,+1660 pp11Quant Date : 6/6/2024 11:34 pm

Compound #7: 1016-4



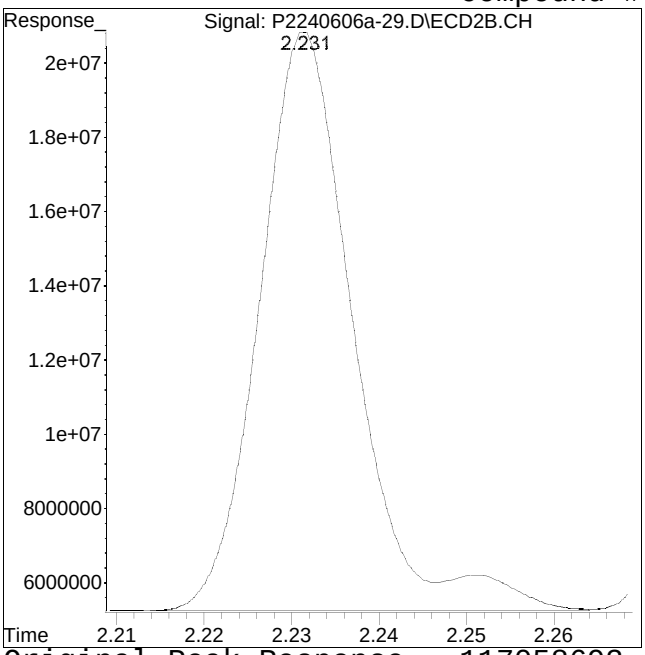


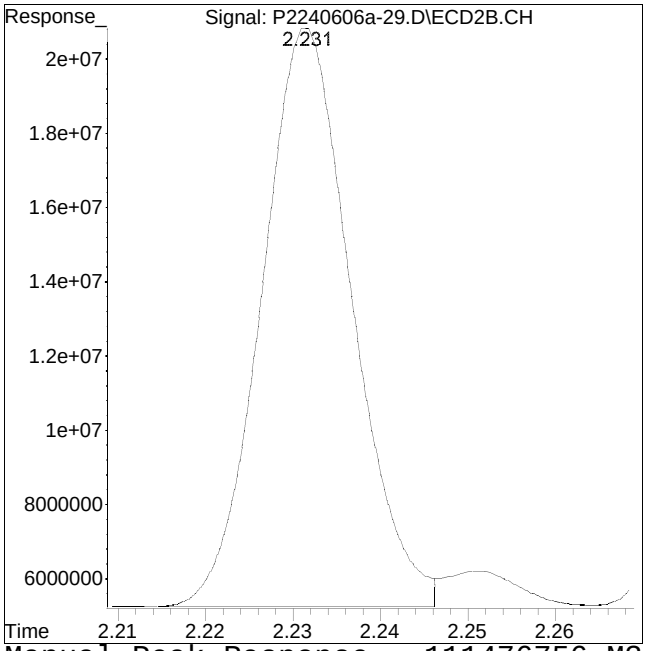
Original Peak Response = 212959843 Manual Peak Response = 207361162 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-29.D Operator : pest2:mhg
Date Inj'd : 6/6/2024 23:14 Instrument : Pest 2
Sample : WG1930475-5,42,,+1660 pp11Quant Date : 6/6/2024 11:34 pm

Compound #58: 1016-4 #2



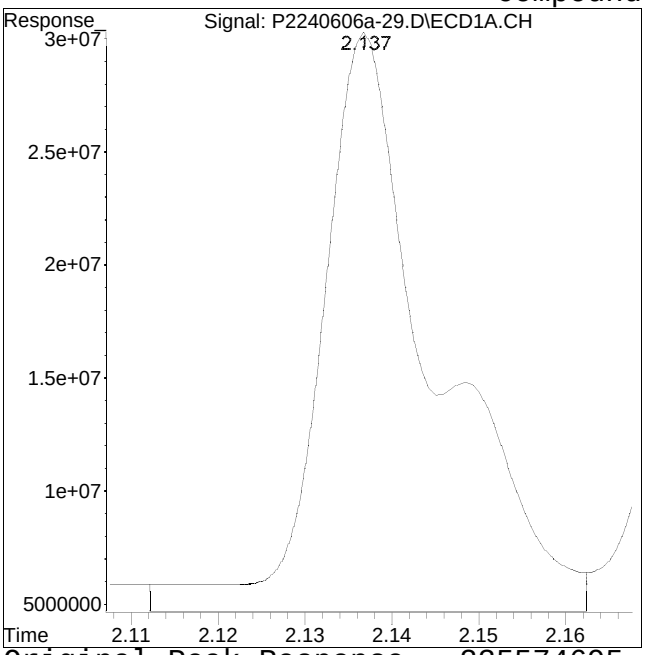


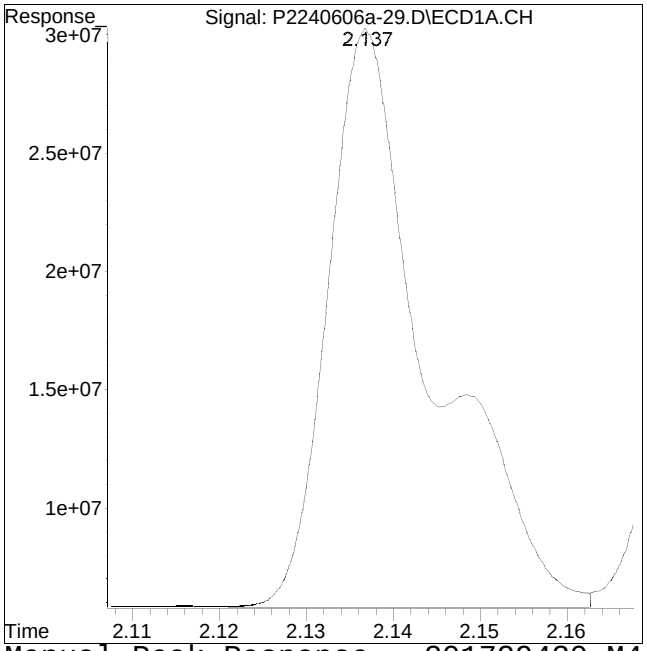
Original Peak Response = 117058693 Manual Peak Response = 111476756 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-29.D Operator : pest2:mhg
Date Inj'd : 6/6/2024 23:14 Instrument : Pest 2
Sample : WG1930475-5,42,,+1660 pp11Quant Date : 6/6/2024 11:34 pm

Compound #8: 1016-5



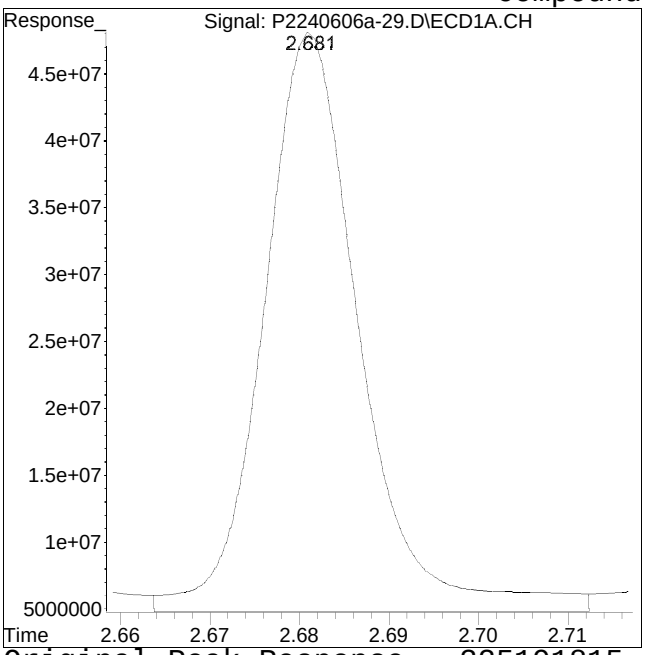


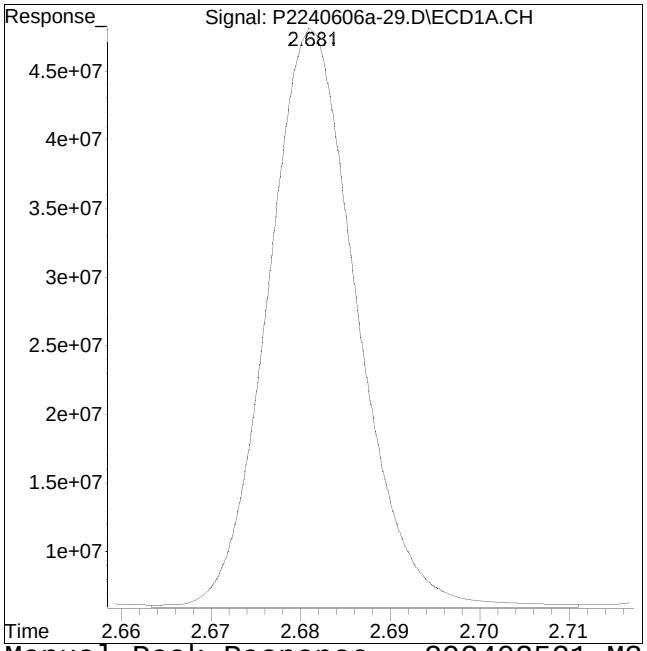
Original Peak Response = 235574695 Manual Peak Response = 201729430 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-29.D Operator : pest2:mhg
Date Inj'd : 6/6/2024 23:14 Instrument : Pest 2
Sample : WG1930475-5,42,,+1660 pp11Quant Date : 6/6/2024 11:34 pm

Compound #9: 1260-1



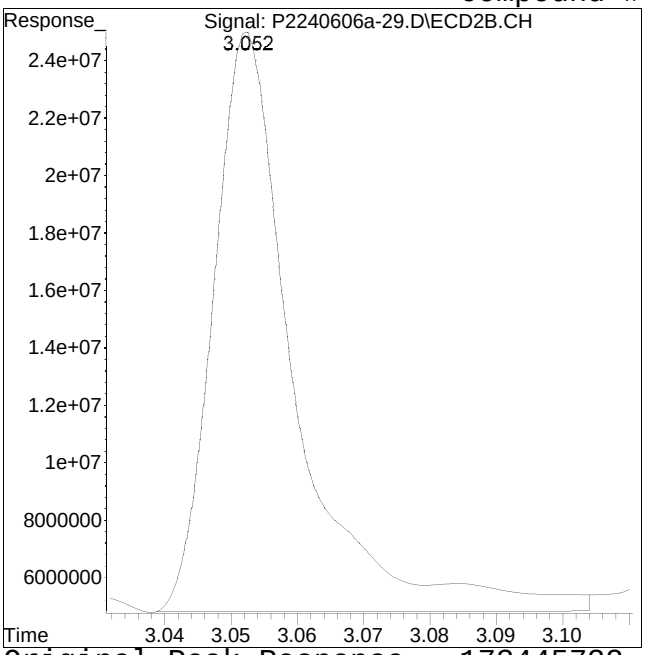


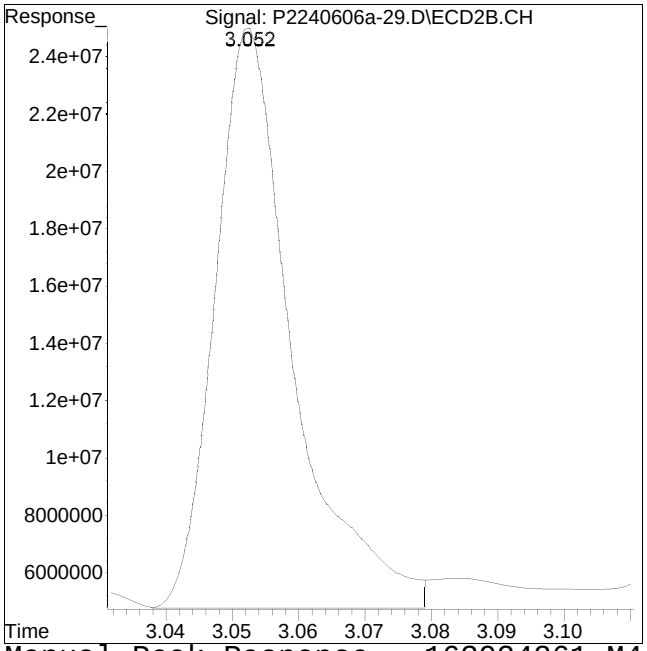
Original Peak Response = 325191815 Manual Peak Response = 292402521 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-29.D Operator : pest2:mhg
Date Inj'd : 6/6/2024 23:14 Instrument : Pest 2
Sample : WG1930475-5,42,,+1660 pp11Quant Date : 6/6/2024 11:34 pm

Compound #60: 1260-1 #2



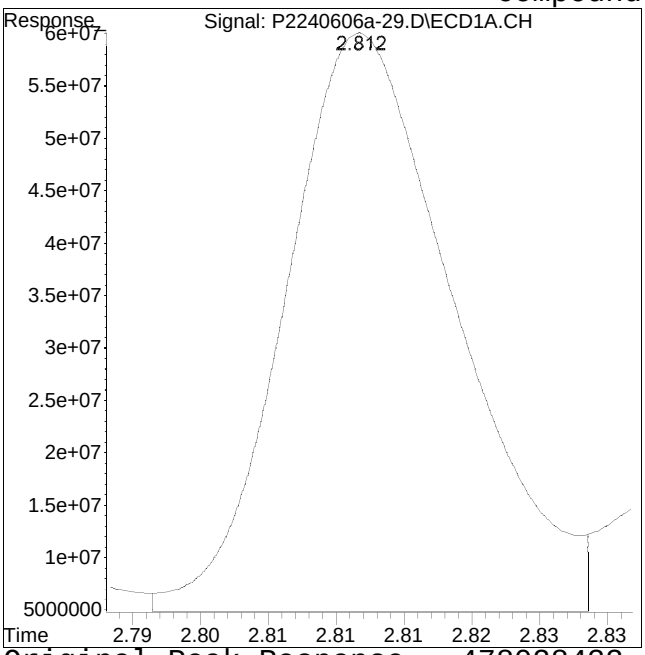


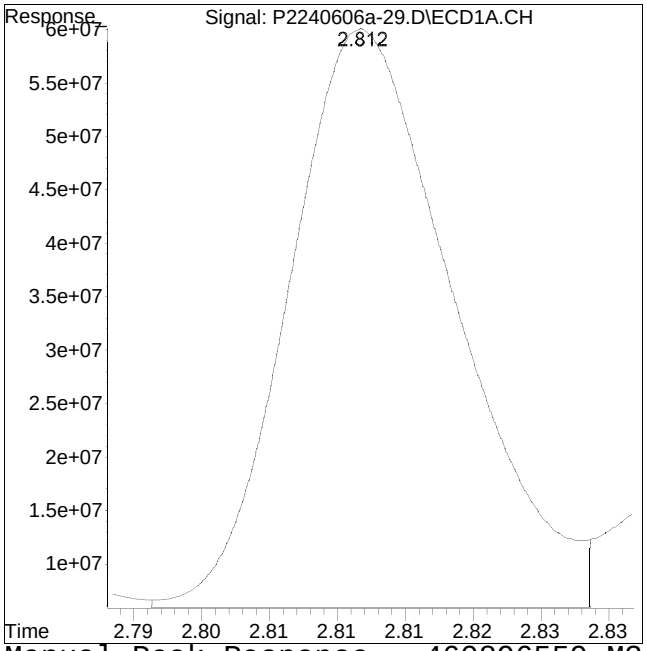
Original Peak Response = 173445732 Manual Peak Response = 163924261 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-29.D Operator : pest2:mhg
Date Inj'd : 6/6/2024 23:14 Instrument : Pest 2
Sample : WG1930475-5,42,,+1660 pp11Quant Date : 6/6/2024 11:34 pm

Compound #10: 1260-2



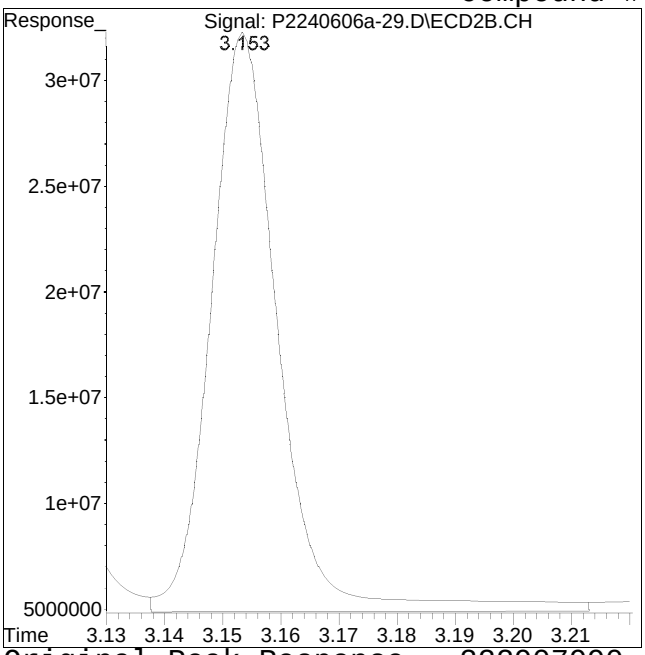


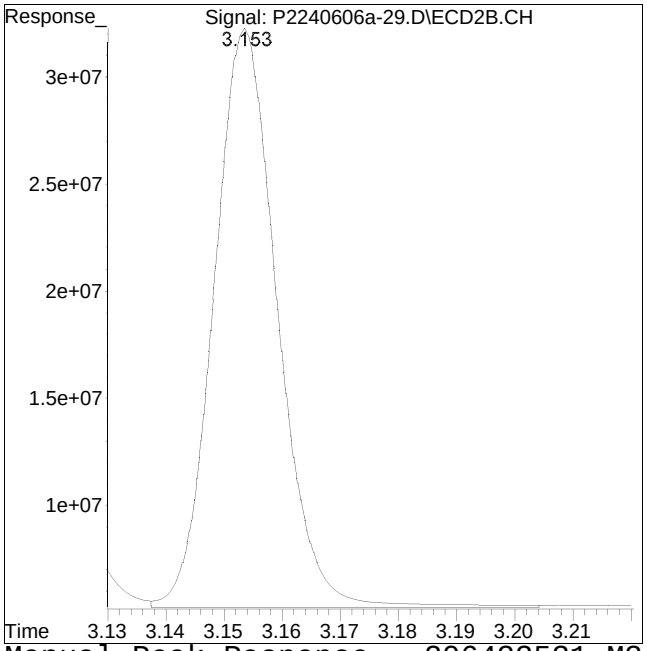
Original Peak Response = 478028433 Manual Peak Response = 460896559 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-29.D Operator : pest2:mhg
Date Inj'd : 6/6/2024 23:14 Instrument : Pest 2
Sample : WG1930475-5,42,,+1660 pp11Quant Date : 6/6/2024 11:34 pm

Compound #61: 1260-2 #2



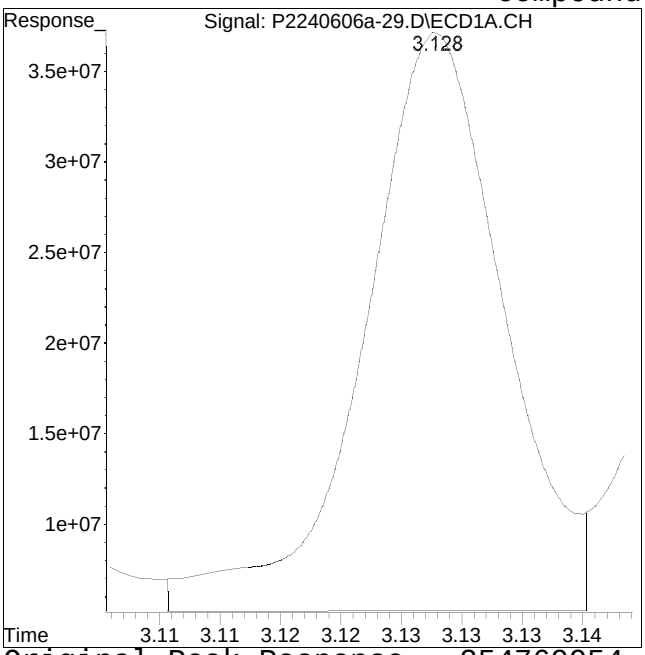


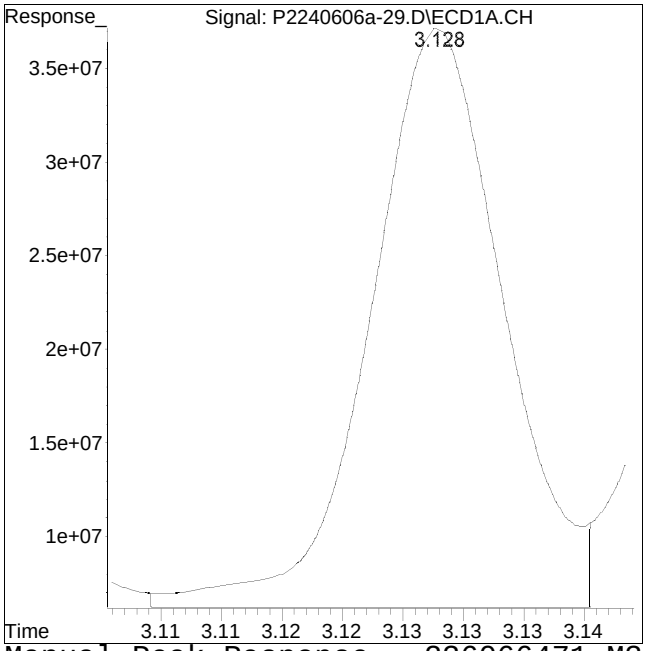
Original Peak Response = 222907990 Manual Peak Response = 206433531 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-29.D Operator : pest2:mhg
Date Inj'd : 6/6/2024 23:14 Instrument : Pest 2
Sample : WG1930475-5,42,,+1660 pp11Quant Date : 6/6/2024 11:34 pm

Compound #11: 1260-3



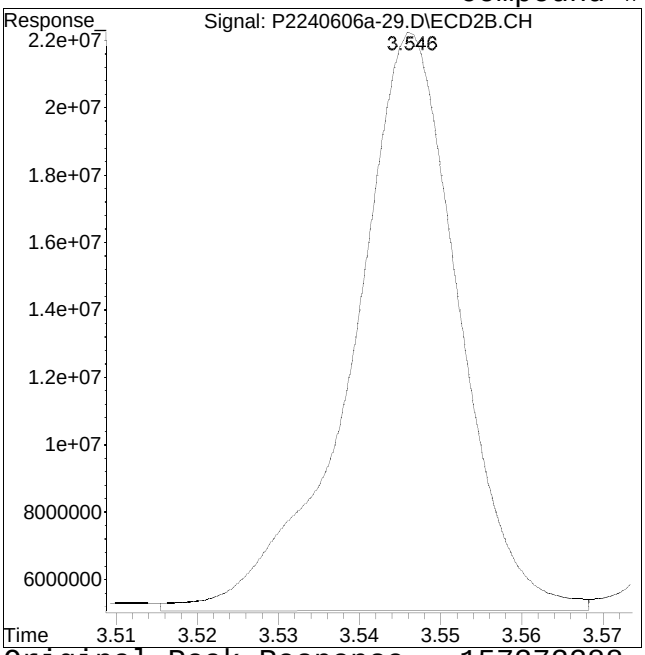


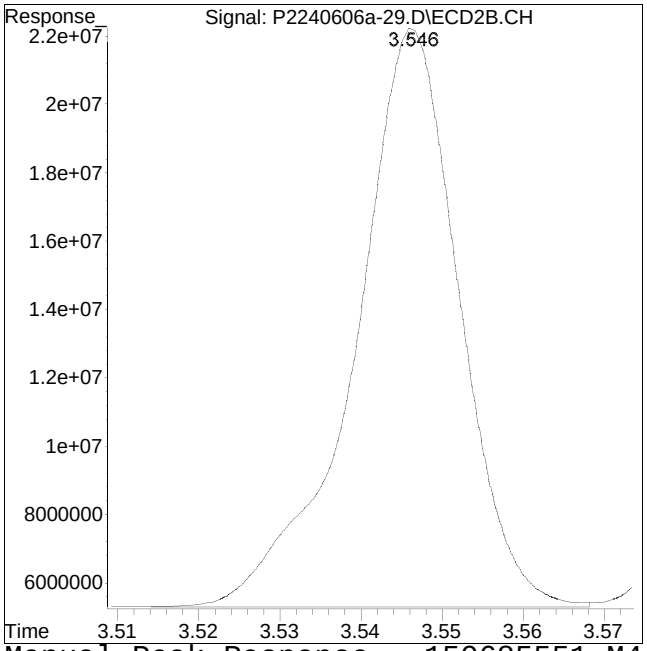
Original Peak Response = 254769954 Manual Peak Response = 236066471 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-29.D Operator : pest2:mhg
Date Inj'd : 6/6/2024 23:14 Instrument : Pest 2
Sample : WG1930475-5,42,,+1660 pp11Quant Date : 6/6/2024 11:34 pm

Compound #62: 1260-3 #2



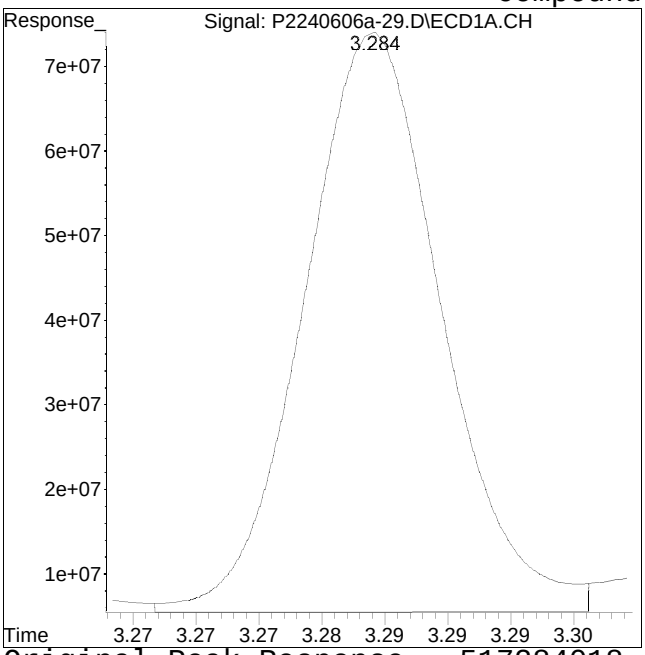


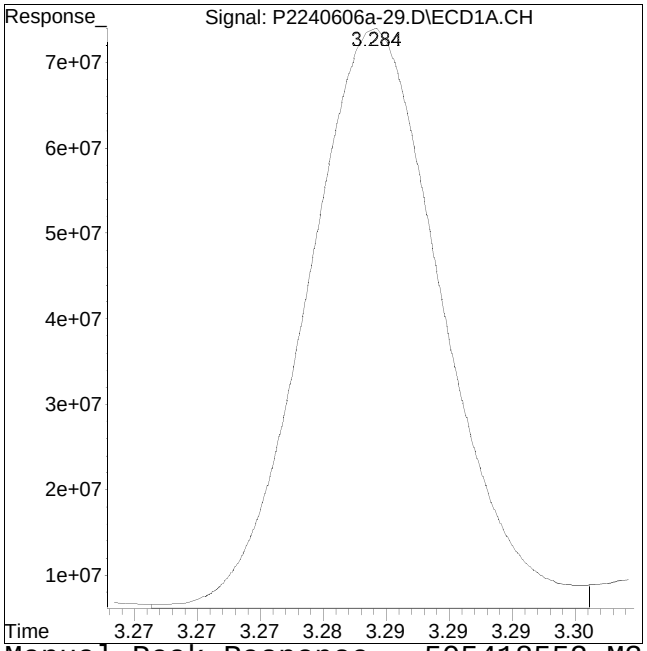
Original Peak Response = 157372388 Manual Peak Response = 150685551 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-29.D Operator : pest2:mhg
Date Inj'd : 6/6/2024 23:14 Instrument : Pest 2
Sample : WG1930475-5,42,,+1660 pp11Quant Date : 6/6/2024 11:34 pm

Compound #12: 1260-4



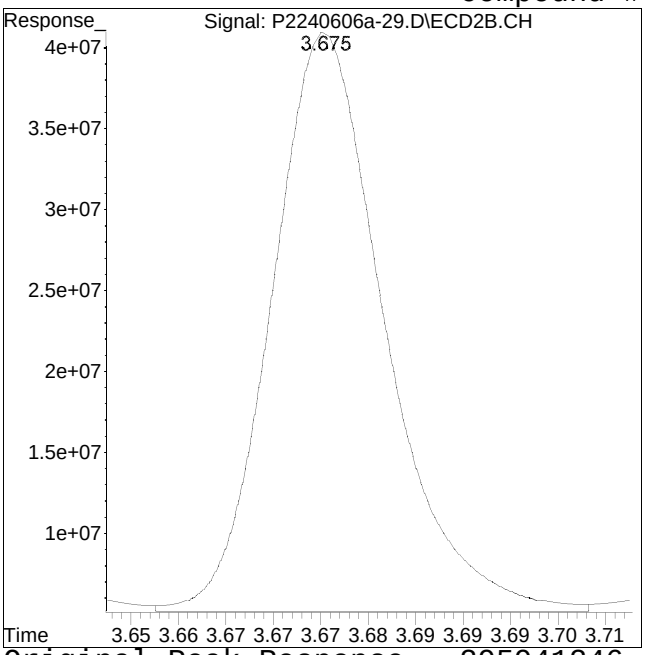


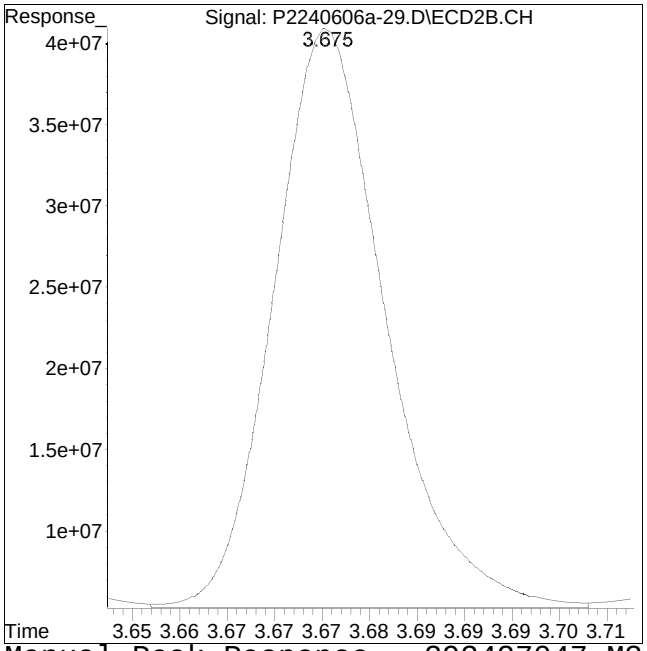
Original Peak Response = 517284018 Manual Peak Response = 505418552 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-29.D Operator : pest2:mhg
Date Inj'd : 6/6/2024 23:14 Instrument : Pest 2
Sample : WG1930475-5,42,,+1660 pp11Quant Date : 6/6/2024 11:34 pm

Compound #63: 1260-4 #2



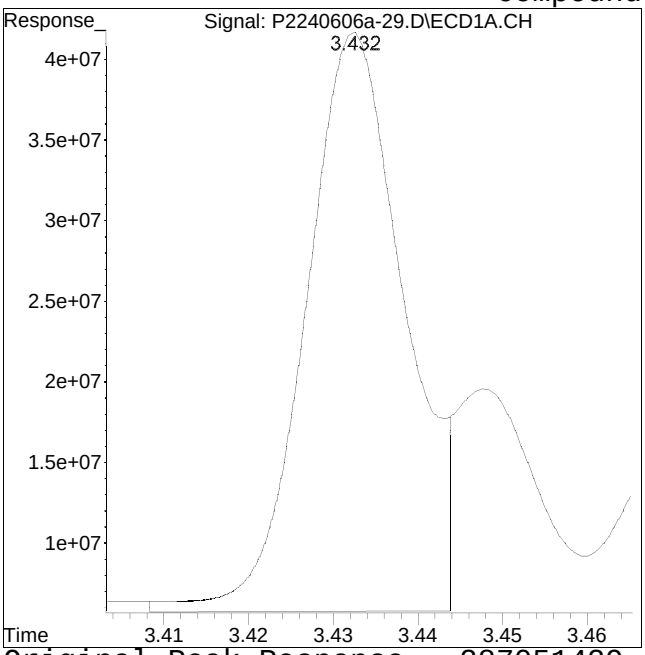


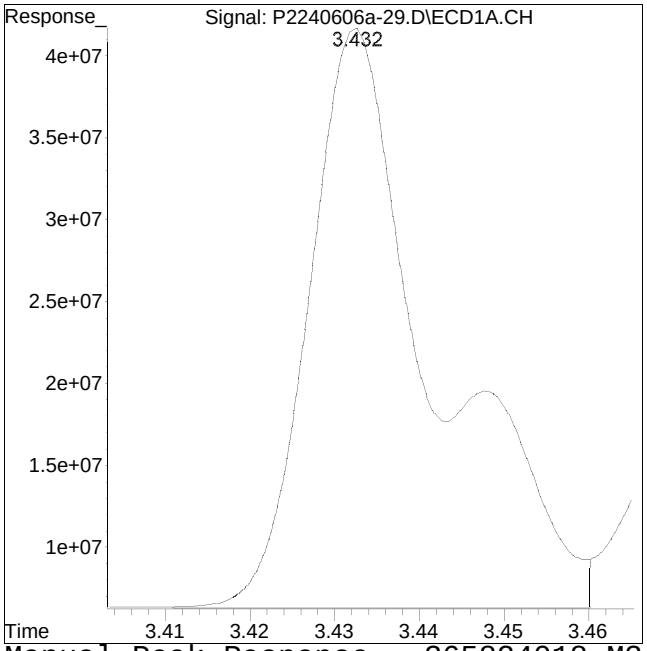
Original Peak Response = 295941246 Manual Peak Response = 292427047 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-29.D Operator : pest2:mhg
Date Inj'd : 6/6/2024 23:14 Instrument : Pest 2
Sample : WG1930475-5,42,,+1660 pp11Quant Date : 6/6/2024 11:34 pm

Compound #13: 1260-5





Original Peak Response = 287051429 Manual Peak Response = 365824018 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 7:03
Operator : pest2:mhg
Sample : WG1931015-2,42,,+2154 pp11460 lvi icv (Sig #1); +2154 pp11460 lvi icv (Sig #2)
Misc : WG1931015,,ical21102
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 07:31:56 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	118	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.191	9.2	85	0.00
3	s	Decachlorobiphenyl		0.847	0.819	3.3	94	0.04
14	i	2154_1br2nb	^	1.000	1.000	0.0	129	0.00
15	l3	1221-2		0.015	0.012	20.0	104	0.00
16	l3	1221-3		0.00895	0.00722	19.3	104	0.01
17	l3	1221-4		0.035	0.026	25.7#	98	0.01
18	l4	1254-1		0.050	0.041	18.0	105	0.04
19	l4	1254-2		0.090	0.075	16.7	109	0.04
20	l4	1254-3		0.095	0.081	14.7	110	0.04
21	l4	1254-4		0.067	0.055	17.9	107	0.04
22	l4	1254-5		0.091	0.073	19.8	104	0.04
23	i	4268_1br2nb	^	1.000	1.000	0.0	131	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	124	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	130	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	114	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.232	1.115	9.5	83	0.00
3	s	Decachlorobiphenyl		0.580	0.658	-13.4	109	0.04
14	i	2154_1br2nb	^	1.000	1.000	0.0	129	0.00
15	l3	1221-2		0.015	0.012	20.0	98	0.00
16	l3	1221-3		0.00933	0.00717	23.2#	99	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 7:03
Operator : pest2:mhg
Sample : WG1931015-2,42,,+2154 pp11460 lvi icv (Sig #1); +2154 pp11460 lvi icv (Sig #2)
Misc : WG1931015,,ical21102
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 07:31:56 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
17	l3	1221-4		0.034	0.027	20.6#	102	0.00
18	l4	1254-1		0.046	0.040	13.0	112	0.03
19	l4	1254-2		0.052	0.044	15.4	108	0.03
20	l4	1254-3		0.078	0.070	10.3	116	0.03
21	l4	1254-4		0.048	0.044	8.3	119	0.03
22	l4	1254-5		0.071	0.059	16.9	107	0.03
23	i	4268_1br2nb	^	1.000	1.000	0.0	127	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	122	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	130	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.022	0.000	100.0#	0#	-1.59#
5	l1	1016-2		0.049	0.000	100.0#	0#	-1.73#
6	l1	1016-3		0.101	0.000	100.0#	0#	-1.92#
7	l1	1016-4		0.040	0.000	100.0#	0#	-1.97#
8	l1	1016-5		0.045	0.000	100.0#	0#	-2.14#
9	l2	1260-1		0.065	0.000	100.0#	0#	-2.69#
10	l2	1260-2		0.097	0.000	100.0#	0#	-2.82#
11	l2	1260-3		0.060	0.000	100.0#	0#	-3.13#
12	l2	1260-4		0.130	0.000	100.0#	0#	-3.29#
13	l2	1260-5		0.091	0.000	100.0#	0#	-3.44#
24	l6	1242-1		0.019	0.000	100.0#	0#	-1.58#
25	l6	1242-2		0.040	0.000	100.0#	0#	-1.73#
26	l6	1242-3		0.087	0.000	100.0#	0#	-1.91#
27	l6	1242-4		0.035	0.000	100.0#	0#	-1.97#
28	l6	1242-5		0.027	0.000	100.0#	0#	-2.32#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 7:03
Operator : pest2:mhg
Sample : WG1931015-2,42,,+2154 pp11460 lvi icv (Sig #1); +2154 pp11460 lvi icv (Sig #2)
Misc : WG1931015,,ical21102
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 07:31:56 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
29 l9	1268-1	0.181	0.000	100.0#	0#	-3.45#
30 l9	1268-2	0.167	0.000	100.0#	0#	-3.47#
31 l9	1268-3	0.133	0.000	100.0#	0#	-3.57#
32 l9	1268-4	0.058	0.000	100.0#	0#	-3.76#
33 l9	1268-5	0.392	0.000	100.0#	0#	-3.92#
35 l7	1248-1	0.057	0.000	100.0#	0#	-1.91#
36 l7	1248-2	0.074	0.000	100.0#	0#	-2.04#
37 l7	1248-3	0.065	0.000	100.0#	0#	-2.14#
38 l7	1248-4	0.058	0.000	100.0#	0#	-2.32#
39 l7	1248-5	0.050	0.000	100.0#	0#	-2.34#
41 l5	1232-1	0.026	0.000	100.0#	0#	-1.58#
42 l5	1232-2	0.024	0.000	100.0#	0#	-1.73#
43 l5	1232-3	0.050	0.000	100.0#	0#	-1.92#
44 l5	1232-4	0.020	0.000	100.0#	0#	-1.97#
45 l5	1232-5	0.015	0.000	100.0#	0#	-2.32#
46 l8	1262-1	0.070	0.000	100.0#	0#	-2.82#
47 l8	1262-2	0.091	0.000	100.0#	0#	-3.01#
48 l8	1262-3	0.079	0.000	100.0#	0#	-3.13#
49 l8	1262-4	0.160	0.000	100.0#	0#	-3.29#
50 l8	1262-5	0.050	0.000	100.0#	0#	-3.76#
Signal #2						
4 l1	1016-1	0.021	0.000	100.0#	0#	-1.81#
5 l1	1016-2	0.046	0.000	100.0#	0#	-1.98#
6 l1	1016-3	0.092	0.000	100.0#	0#	-2.18#
7 l1	1016-4	0.034	0.000	100.0#	0#	-2.24#
8 l1	1016-5	0.029	0.000	100.0#	0#	-2.45#
9 l2	1260-1	0.054	0.000	100.0#	0#	-3.06#
10 l2	1260-2	0.062	0.000	100.0#	0#	-3.16#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 7:03
Operator : pest2:mhg
Sample : WG1931015-2,42,,+2154 pp11460 lvi icv (Sig #1); +2154 pp11460 lvi icv (Sig #2)
Misc : WG1931015,,ical21102
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 07:31:56 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
11 l2	1260-3	0.048	0.000	100.0#	0#	-3.56#
12 l2	1260-4	0.096	0.000	100.0#	0#	-3.68#
13 l2	1260-5	0.066	0.000	100.0#	0#	-3.89#
24 l6	1242-1	0.017	0.000	100.0#	0#	-1.80#
25 l6	1242-2	0.038	0.000	100.0#	0#	-1.97#
26 l6	1242-3	0.073	0.000	100.0#	0#	-2.18#
27 l6	1242-4	0.029	0.000	100.0#	0#	-2.24#
28 l6	1242-5	0.022	0.000	100.0#	0#	-2.62#
29 l9	1268-1	0.119	0.000	100.0#	0#	-3.88#
30 l9	1268-2	0.110	0.000	100.0#	0#	-3.90#
31 l9	1268-3	0.090	0.000	100.0#	0#	-4.05#
32 l9	1268-4	0.039	0.000	100.0#	0#	-4.20#
33 l9	1268-5	0.245	0.000	100.0#	0#	-4.38#
35 l7	1248-1	0.052	0.000	100.0#	0#	-2.17#
36 l7	1248-2	0.034	0.000	100.0#	0#	-2.32#
37 l7	1248-3	0.043	0.000	100.0#	0#	-2.45#
38 l7	1248-4	0.048	0.000	100.0#	0#	-2.62#
39 l7	1248-5	0.054	0.000	100.0#	0#	-2.65#
41 l5	1232-1	0.025	0.000	100.0#	0#	-1.80#
42 l5	1232-2	0.025	0.000	100.0#	0#	-1.98#
43 l5	1232-3	0.045	0.000	100.0#	0#	-2.18#
44 l5	1232-4	0.018	0.000	100.0#	0#	-2.24#
45 l5	1232-5	0.013	0.000	100.0#	0#	-2.62#
46 l8	1262-1	0.049	0.000	100.0#	0#	-3.16#
47 l8	1262-2	0.065	0.000	100.0#	0#	-3.39#
48 l8	1262-3	0.059	0.000	100.0#	0#	-3.55#
49 l8	1262-4	0.110	0.000	100.0#	0#	-3.68#
50 l8	1262-5	0.039	0.000	100.0#	0#	-4.20#

* Evaluation of CC level amount vs concentration.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 07 Jun 2024   7:03
Operator : pest2:mhg
Sample   : WG1931015-2,42,,+2154 pp11460 lvi icv (Sig #1); +2154 pp11460 lvi icv (Sig #2)
Misc   : WG1931015,,ical21102
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 07:31:56 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 7:03
Operator : pest2:mhg
Sample : WG1931015-2,42,,+2154 pp11460 lvi icv (Sig #1); +2154 pp11460 lvi icv (Sig #2)
Misc : WG1931015,,ical21102
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 07:31:56 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.161	1.224	492.6E6	352.7E6	25.000M4	25.000M4
14) i	2154_1br2nb	1.161	1.224	492.6E6	352.7E6	25.000M4	25.000M4
23) i	4268_1br2nb	1.161	1.224	492.6E6	352.7E6	25.000M4	25.000M4
34) i	1248_1br2nb	1.161	1.224	492.6E6	352.7E6	25.000M4	25.000M4
40) i	3262_1br2nb	1.161	1.224	492.6E6	352.7E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.452	1.605	375.5E6	251.6E6	14.538M4	14.478M4
	Spiked Amount 20.000	Range 30 - 150		Recovery =		72.69%	72.39%
3) s	Decachlorobi	4.062f	4.573f	516.5E6	296.9E6	30.946	36.284
	Spiked Amount 20.000	Range 30 - 150		Recovery =		154.73%#	181.42%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1016-1			0	0	N.D.	N.D.
Average 1016-1						0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 7:03
Operator : pest2:mhg
Sample : WG1931015-2,42,,+2154 pp11460 lvi icv (Sig #1); +2154 pp11460 lvi icv (Sig #2)
Misc : WG1931015,,ical21102
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 07:31:56 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13) l2	1260-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
15) l3	1221-2	1.516	1.724	57725336	40751397	201.263M4	191.080M2
16) l3	1221-3	1.578	1.787	35563929	25280514	201.755M4	192.153M2
17) l3	1221-4	1.595	1.814	130.5E6	93920443	189.041M4	197.423M2
Sum	1221-2			223.7E6	160.0E6	592.059	580.656
Average	1221-2					197.353	193.552
18) l4	1254-1	2.346f	2.678f	201.3E6	141.8E6	203.392M2	218.452M2
19) l4	1254-2	2.461f	2.765f	370.6E6	155.2E6	210.043M2	209.689M2
20) l4	1254-3	2.647f	2.994f	398.1E6	247.4E6	212.477M2	226.288M2
21) l4	1254-4	2.777f	3.104f	271.8E6	156.0E6	207.290M2	230.740M2
22) l4	1254-5	2.998f	3.377f	359.9E6	207.9E6	200.080M2	208.702M2
Sum	1254-1			1601.8E6	908.4E6	1033.283	1093.870
Average	1254-1					206.657	218.774
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 7:03
Operator : pest2:mhg
Sample : WG1931015-2,42,,+2154 pp11460 lvi icv (Sig #1); +2154 pp11460 lvi icv (Sig #2)
Misc : WG1931015,,ical21102
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 07:31:56 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D.	N.D.
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 7:03
Operator : pest2:mhg
Sample : WG1931015-2,42,,+2154 pp11460 lvi icv (Sig #1); +2154 pp11460 lvi icv (Sig #2)
Misc : WG1931015,,ical21102
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 07:31:56 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

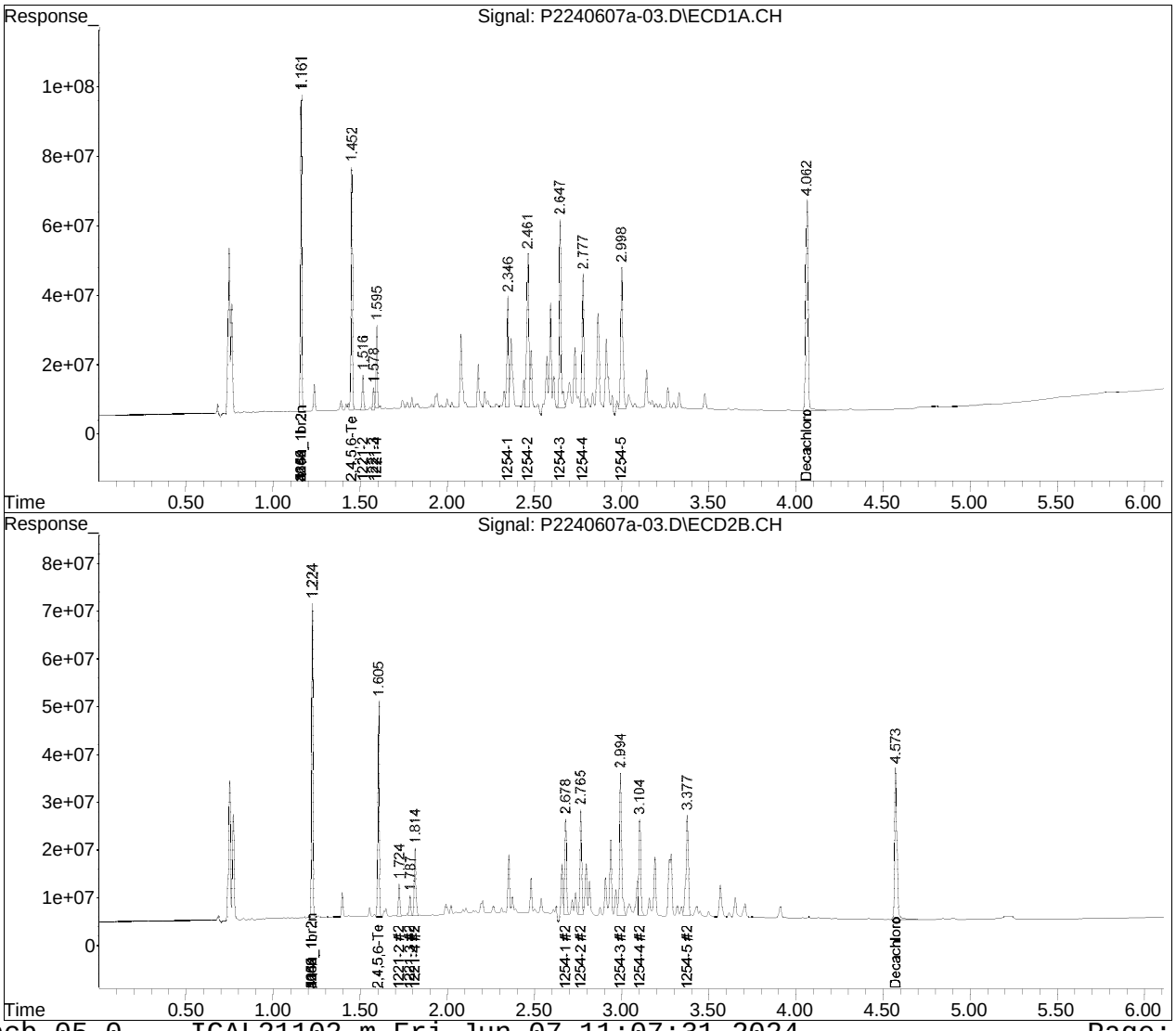
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 7:03
Operator : pest2:mhg
Sample : WG1931015-2,42,,+2154 pp11460 lvi icv (Sig #1); +2154 pp11460 lvi
Misc : WG1931015,,ical21102
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 07:31:56 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

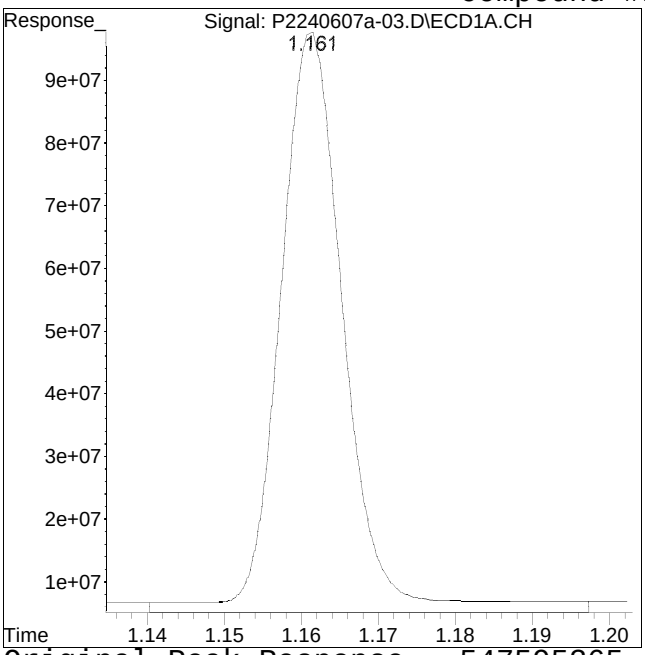
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

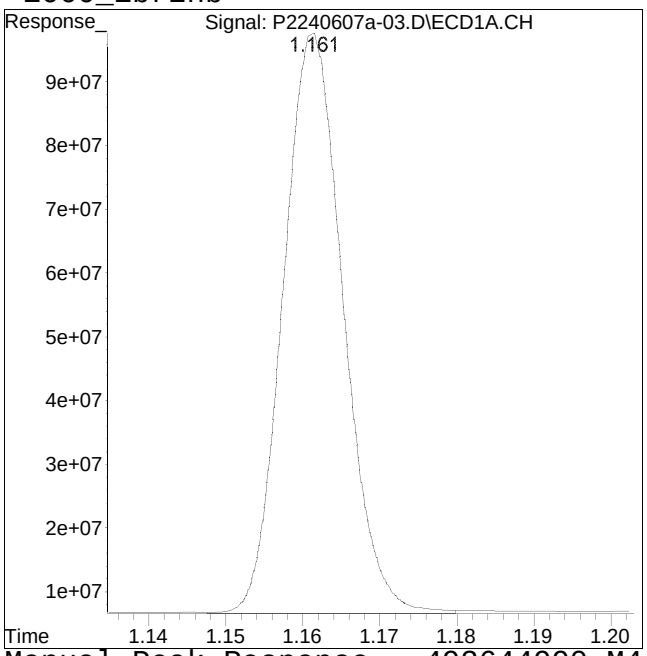


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-03.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 7:03 Instrument : Pest 2
Sample : WG1931015-2,42,,+2154 pp11Quant Date : 6/7/2024 7:31 am

Compound #1: 1660_1br2nb



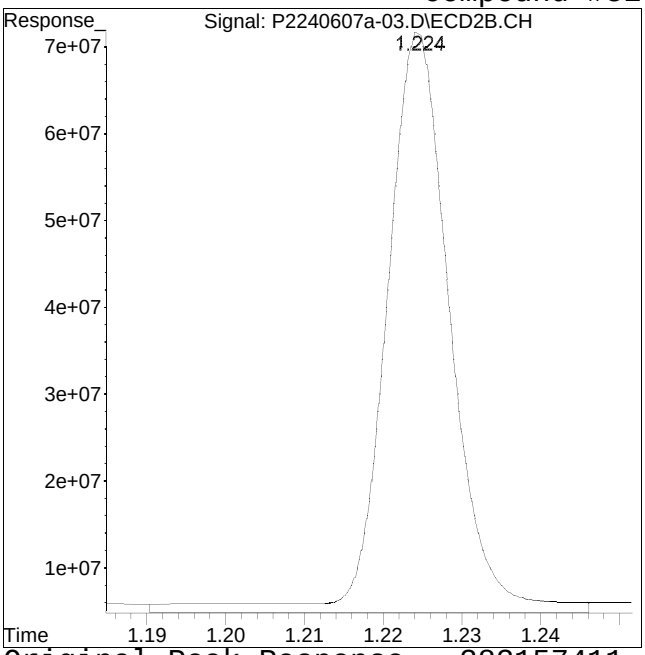


Original Peak Response = 547595365 Manual Peak Response = 492644990 M4
M4 = Poor automated baseline construction.

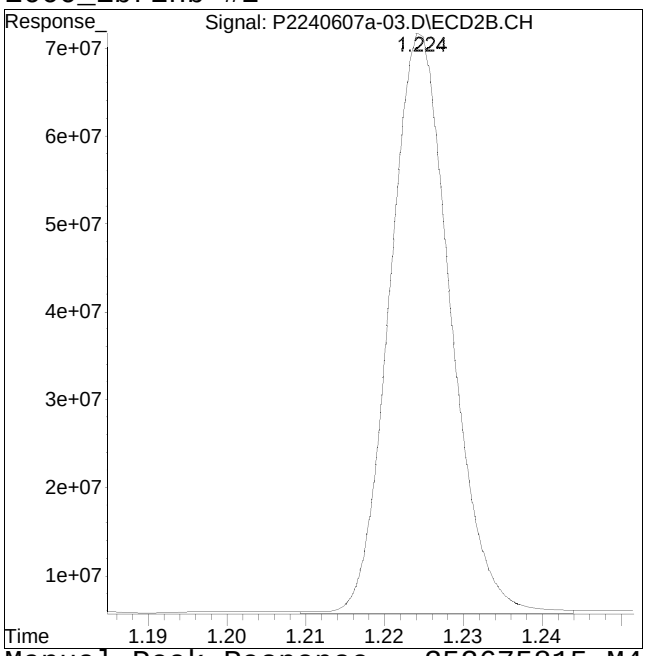
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-03.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 7:03 Instrument : Pest 2
Sample : WG1931015-2,42,,+2154 pp11Quant Date : 6/7/2024 7:31 am

Compound #52: 1660_1br2nb #2



Original Peak Response = 383157411



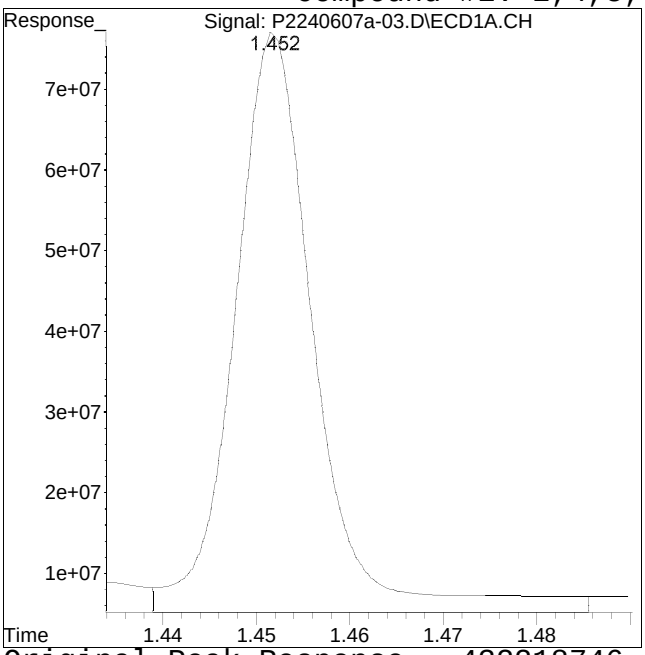
Manual Peak Response = 352675815 M4

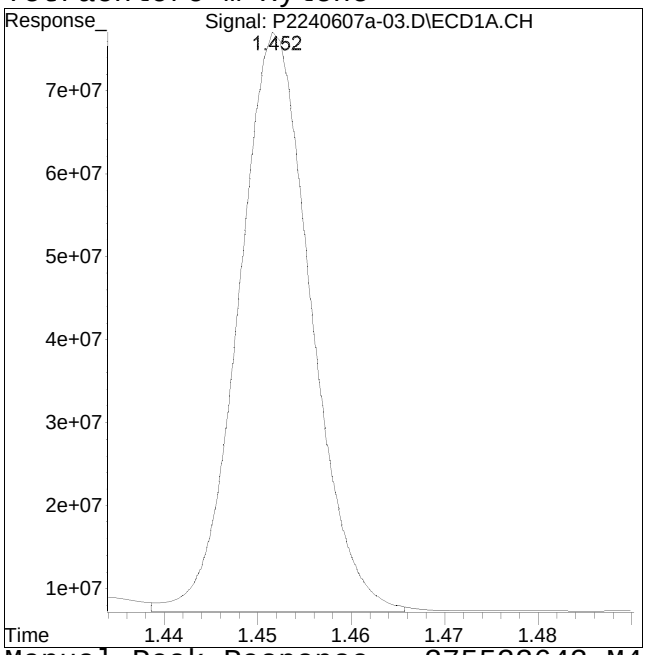
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-03.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 7:03 Instrument : Pest 2
Sample : WG1931015-2,42,,+2154 pp11Quant Date : 6/7/2024 7:31 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



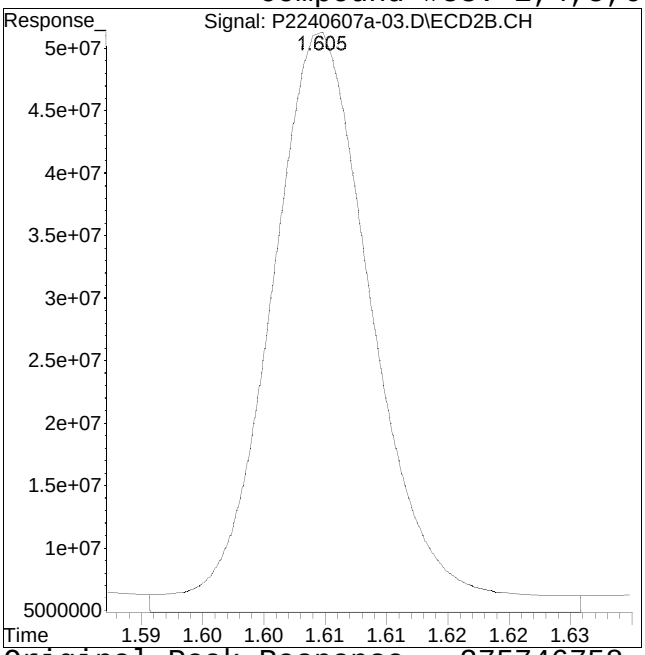


Original Peak Response = 432218746 Manual Peak Response = 375533643 M4
M4 = Poor automated baseline construction.

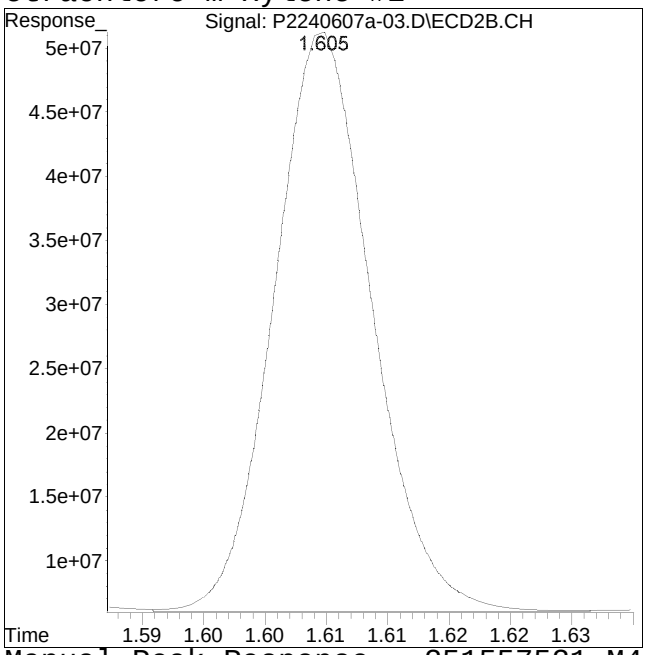
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-03.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 7:03 Instrument : Pest 2
Sample : WG1931015-2,42,,+2154 pp11Quant Date : 6/7/2024 7:31 am

Compound #53: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 275746758



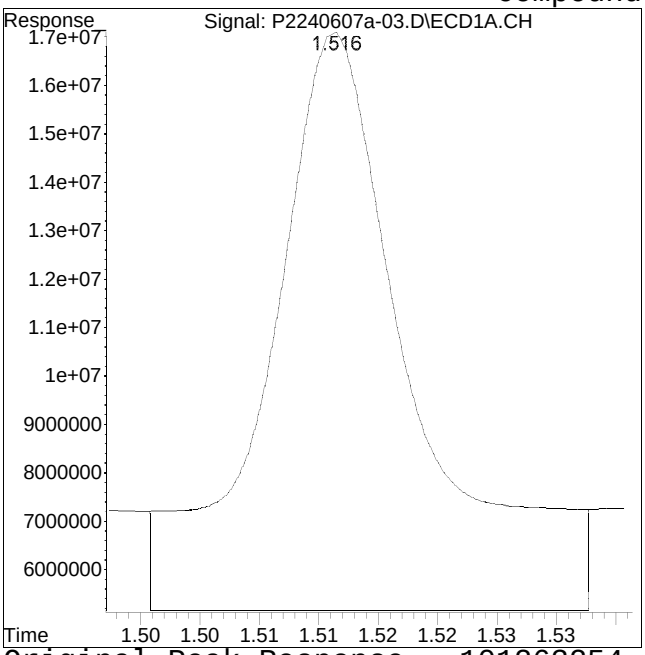
Manual Peak Response = 251557521 M4

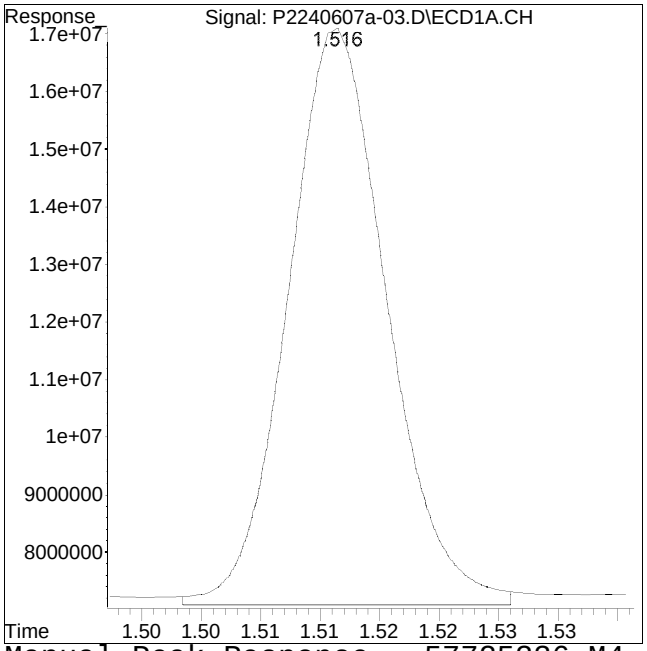
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-03.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 7:03 Instrument : Pest 2
Sample : WG1931015-2,42,,+2154 pp11Quant Date : 6/7/2024 7:31 am

Compound #15: 1221-2



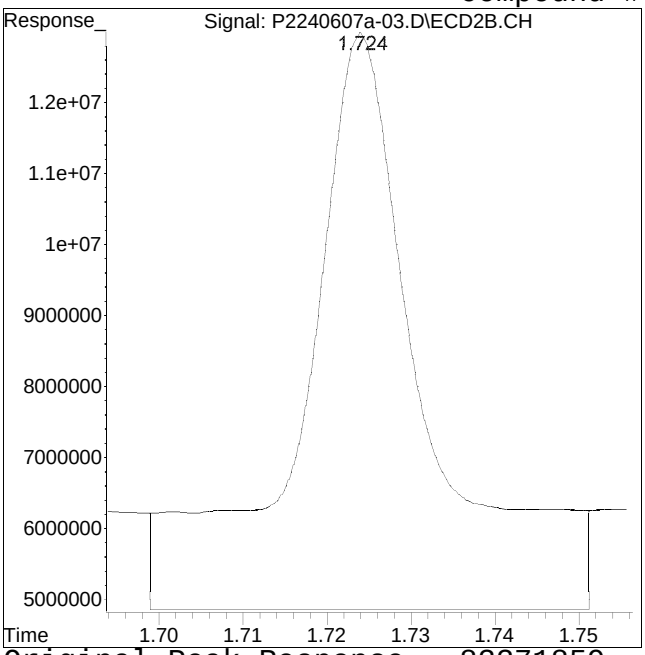


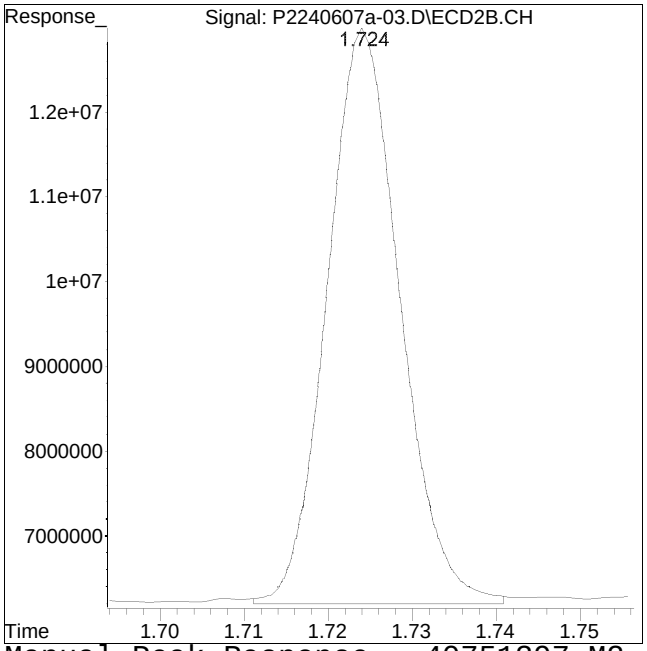
Original Peak Response = 101263254 Manual Peak Response = 57725336 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-03.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 7:03 Instrument : Pest 2
Sample : WG1931015-2,42,,+2154 pp11Quant Date : 6/7/2024 7:31 am

Compound #66: 1221-2 #2



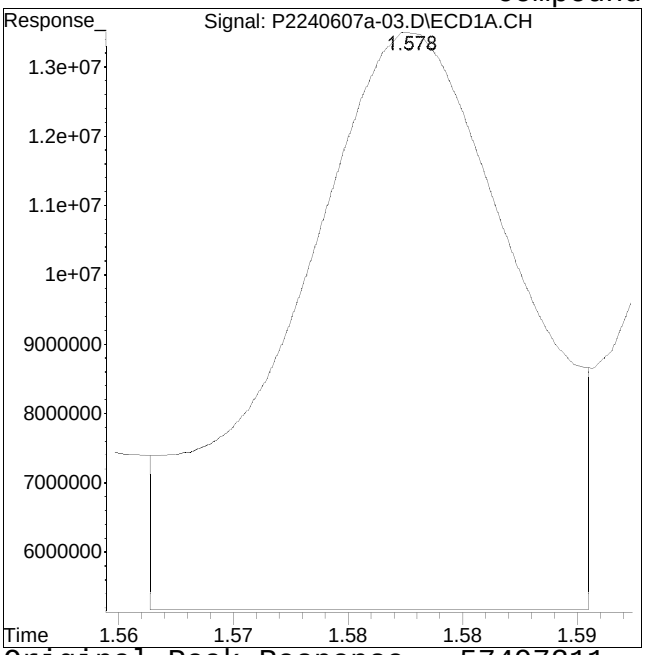


Original Peak Response = 83371859 Manual Peak Response = 40751397 M2
M2 = Peak not found by automatic integration algorithm.

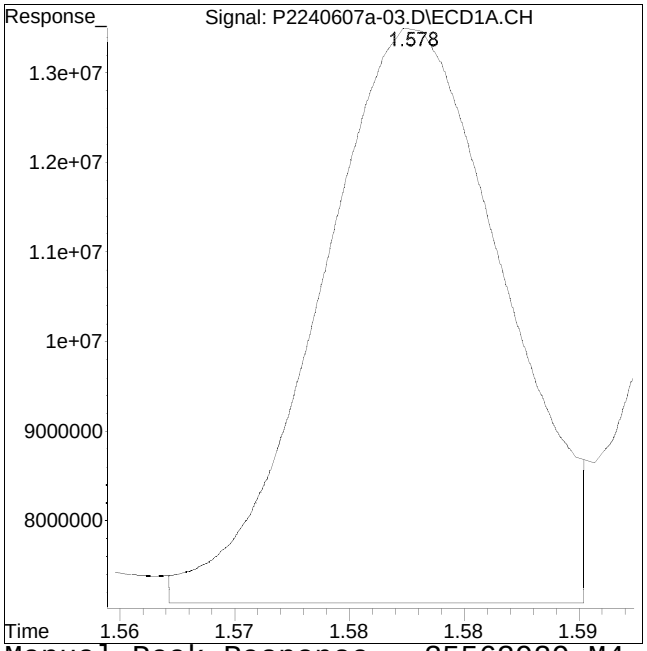
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-03.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 7:03 Instrument : Pest 2
Sample : WG1931015-2,42,,+2154 pp11Quant Date : 6/7/2024 7:31 am

Compound #16: 1221-3



Original Peak Response = 57497211



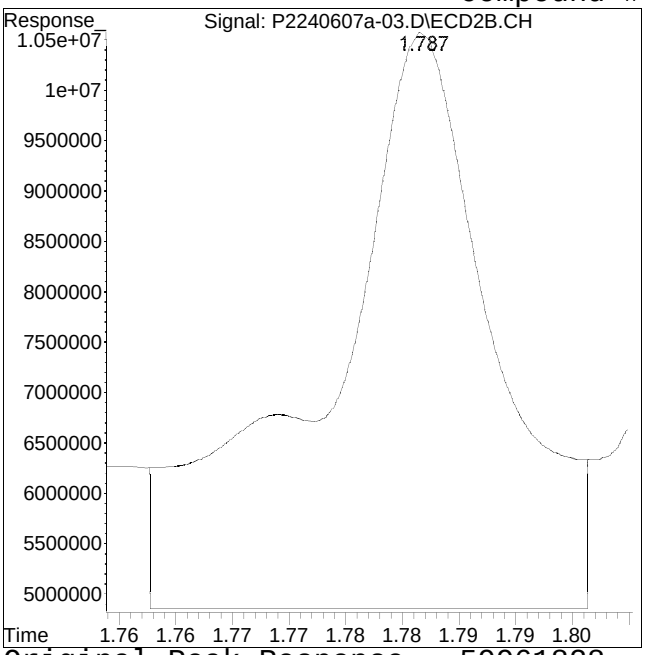
Manual Peak Response = 35563929 M4

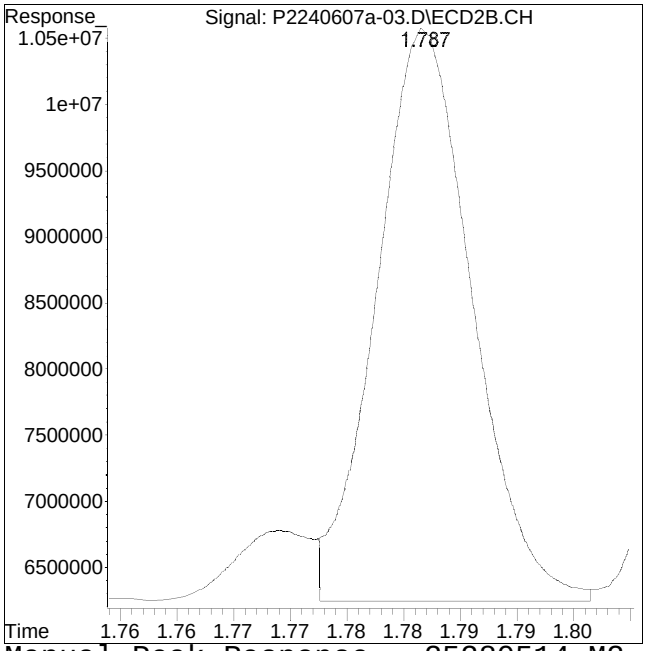
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-03.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 7:03 Instrument : Pest 2
Sample : WG1931015-2,42,,+2154 pp11Quant Date : 6/7/2024 7:31 am

Compound #67: 1221-3 #2



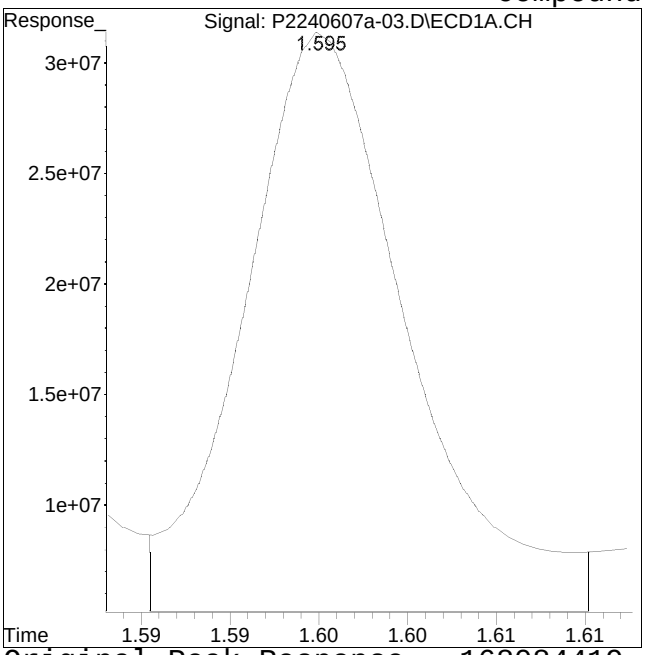


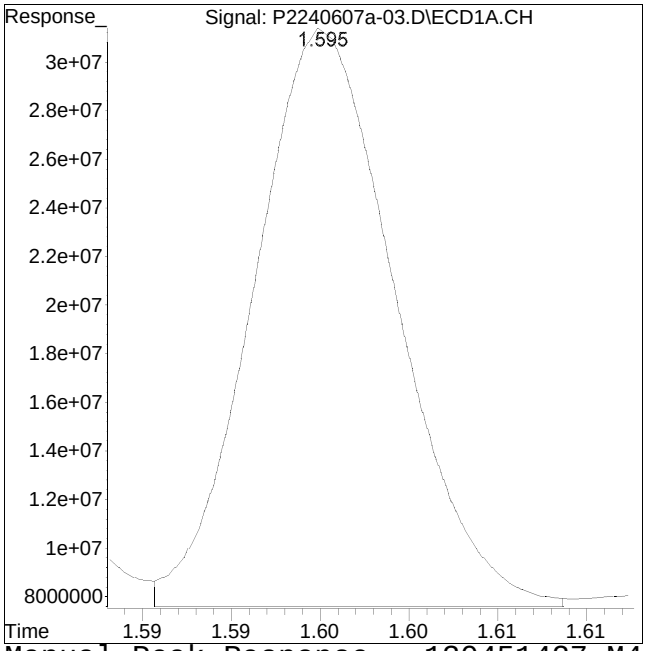
Original Peak Response = 59961828 Manual Peak Response = 25280514 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-03.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 7:03 Instrument : Pest 2
Sample : WG1931015-2,42,,+2154 pp11Quant Date : 6/7/2024 7:31 am

Compound #17: 1221-4



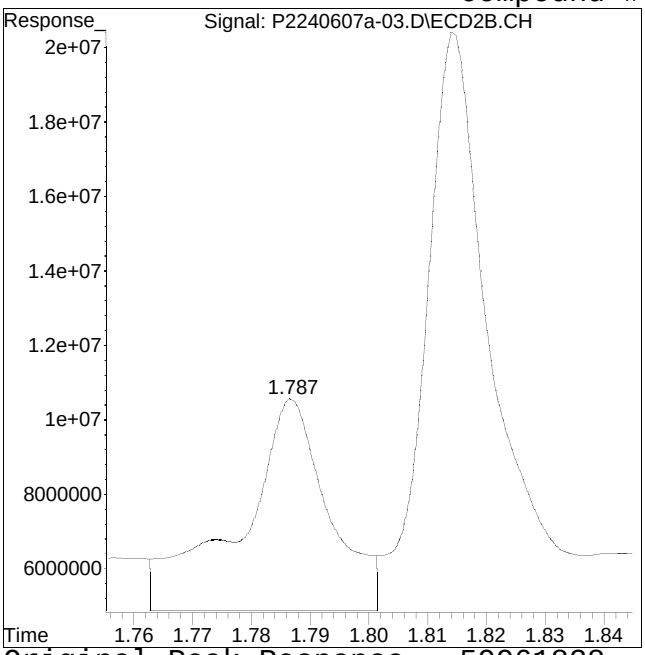


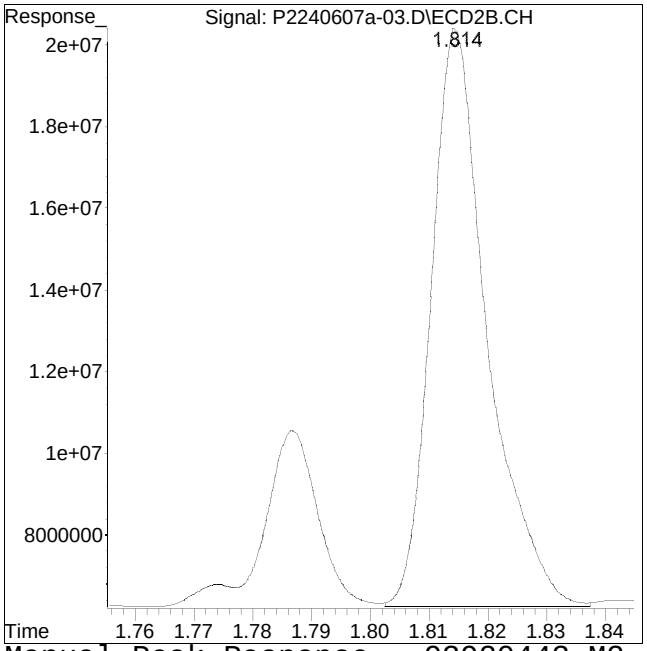
Original Peak Response = 168084419 Manual Peak Response = 130451427 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-03.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 7:03 Instrument : Pest 2
Sample : WG1931015-2,42,,+2154 pp11Quant Date : 6/7/2024 7:31 am

Compound #68: 1221-4 #2



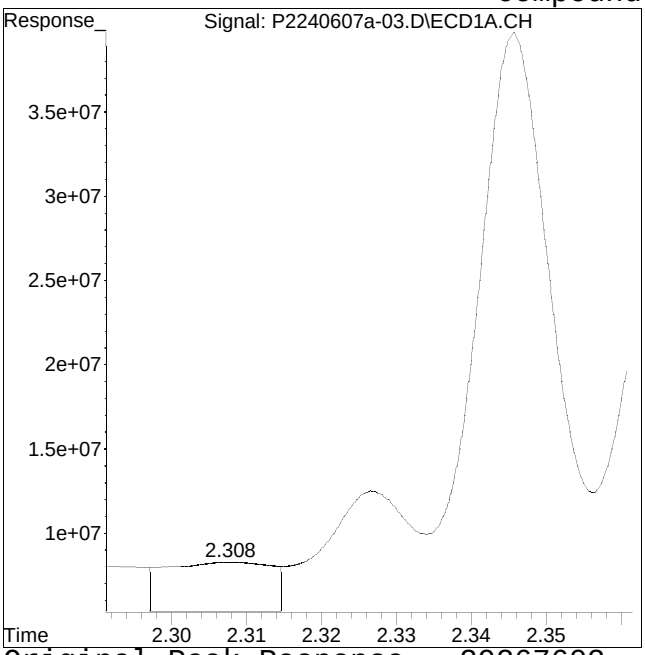


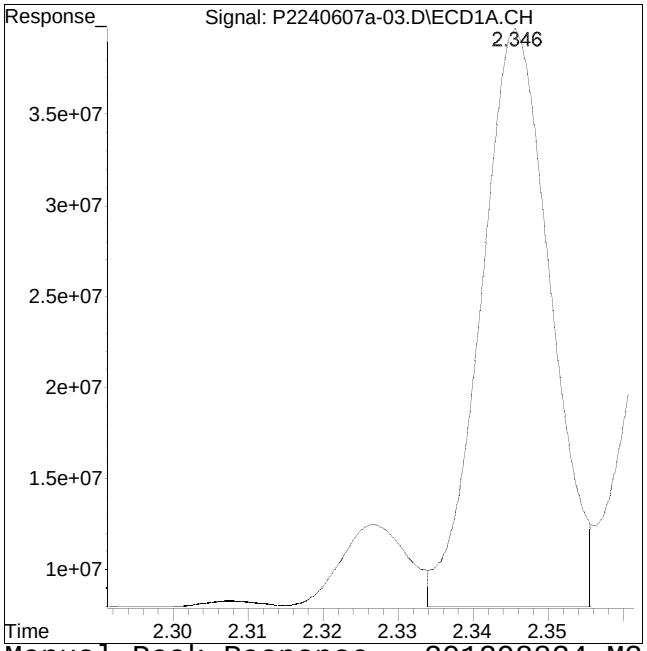
Original Peak Response = 59961828 Manual Peak Response = 93920443 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-03.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 7:03 Instrument : Pest 2
Sample : WG1931015-2,42,,+2154 pp11Quant Date : 6/7/2024 7:31 am

Compound #18: 1254-1



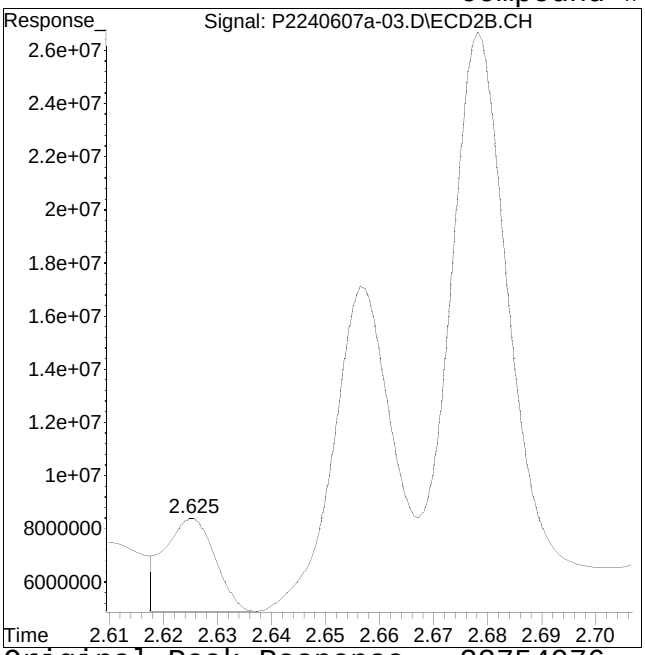


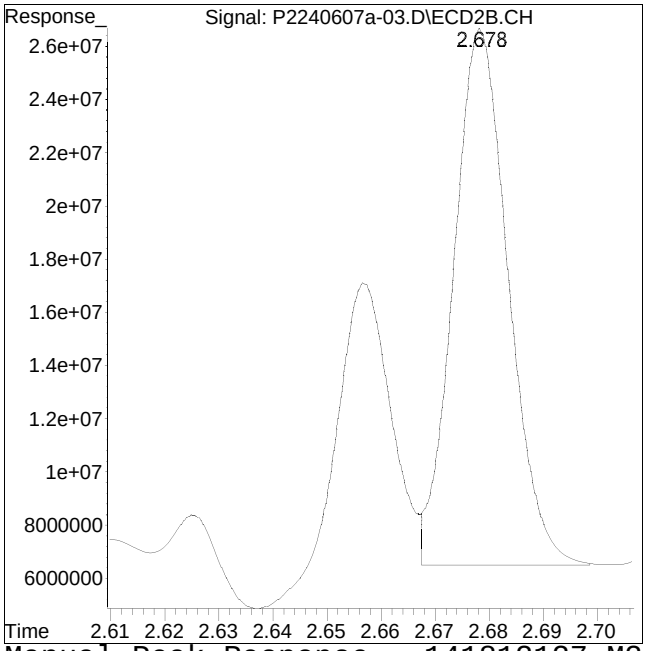
Original Peak Response = 29267602 Manual Peak Response = 201298824 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-03.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 7:03 Instrument : Pest 2
Sample : WG1931015-2,42,,+2154 pp11Quant Date : 6/7/2024 7:31 am

Compound #69: 1254-1 #2



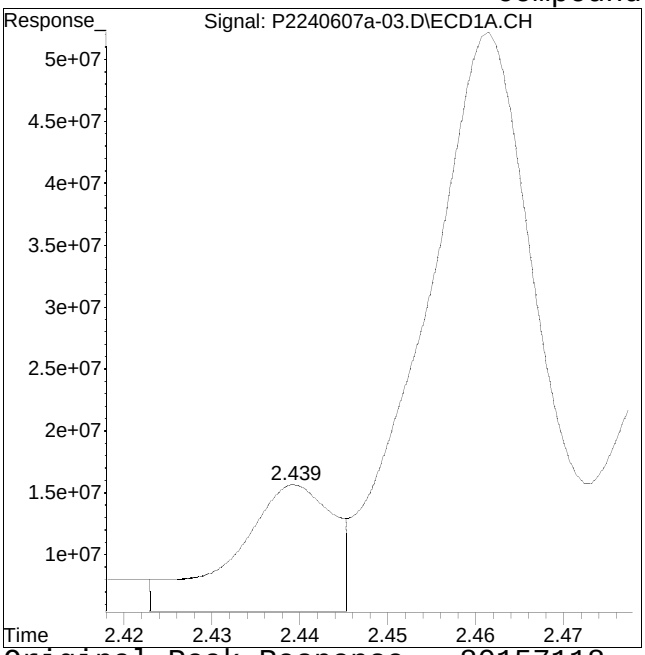


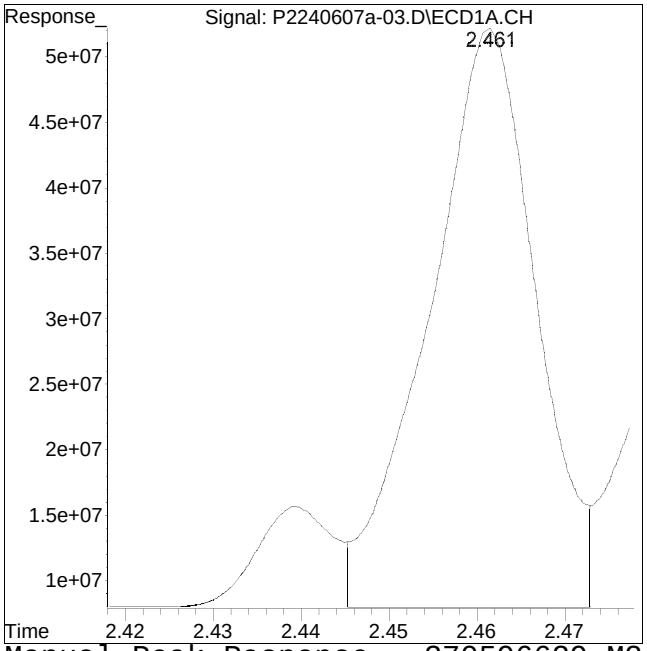
Original Peak Response = 23754976 Manual Peak Response = 141812127 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-03.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 7:03 Instrument : Pest 2
Sample : WG1931015-2,42,,+2154 pp11Quant Date : 6/7/2024 7:31 am

Compound #19: 1254-2



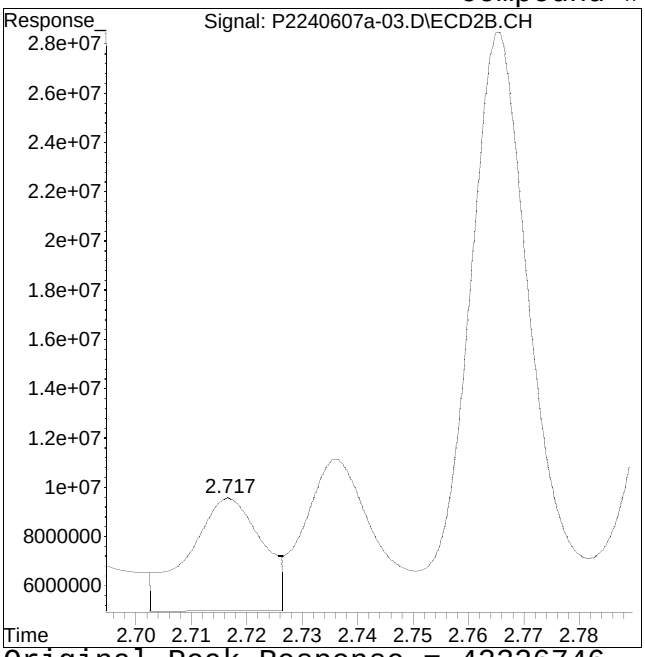


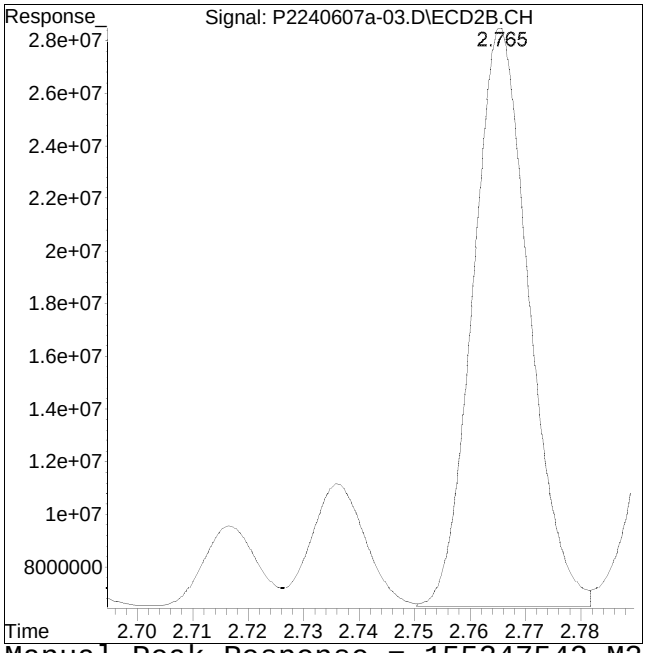
Original Peak Response = 80157118 Manual Peak Response = 370596629 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-03.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 7:03 Instrument : Pest 2
Sample : WG1931015-2,42,,+2154 pp11Quant Date : 6/7/2024 7:31 am

Compound #70: 1254-2 #2



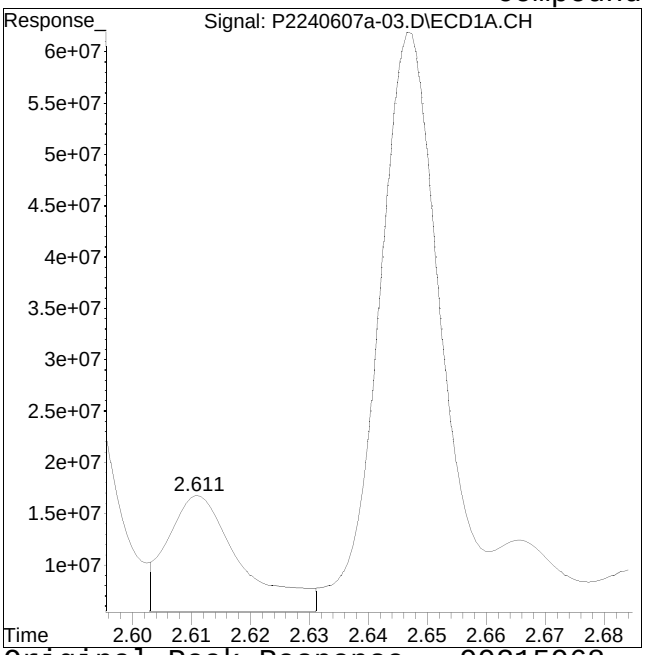


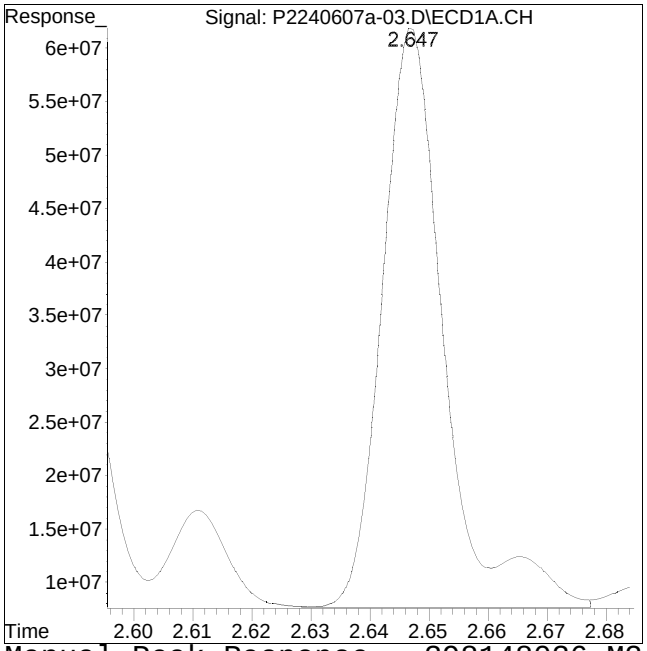
Original Peak Response = 42326746 Manual Peak Response = 155247542 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-03.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 7:03 Instrument : Pest 2
Sample : WG1931015-2,42,,+2154 pp11Quant Date : 6/7/2024 7:31 am

Compound #20: 1254-3



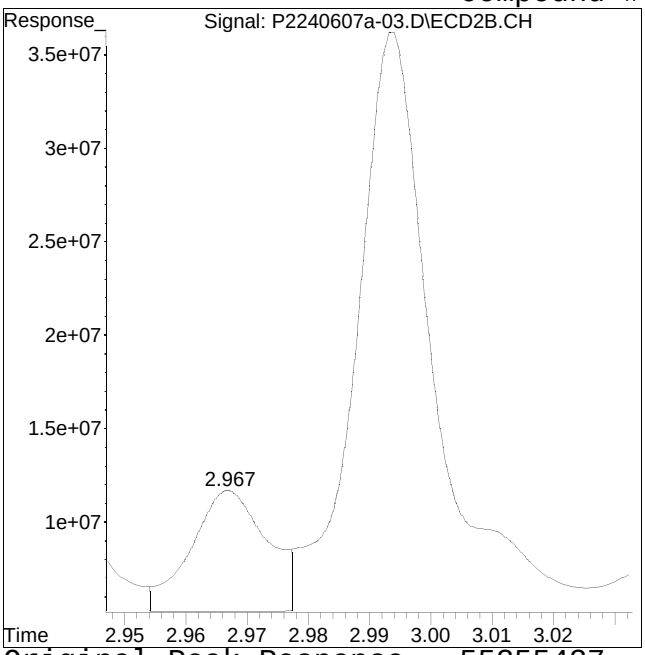


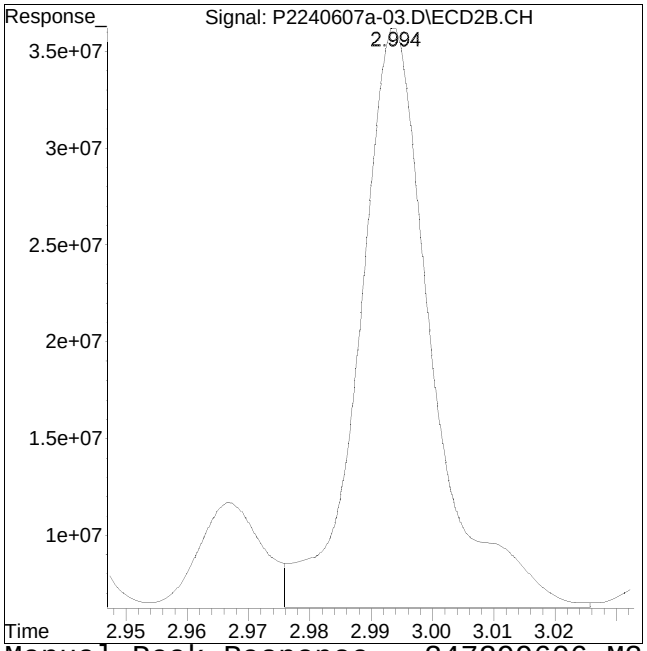
Original Peak Response = 99215968 Manual Peak Response = 398148036 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-03.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 7:03 Instrument : Pest 2
Sample : WG1931015-2,42,,+2154 pp11Quant Date : 6/7/2024 7:31 am

Compound #71: 1254-3 #2



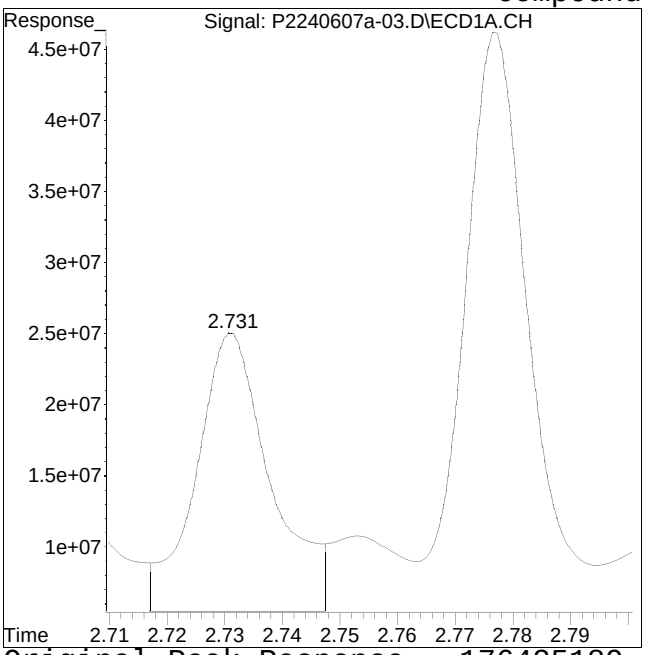


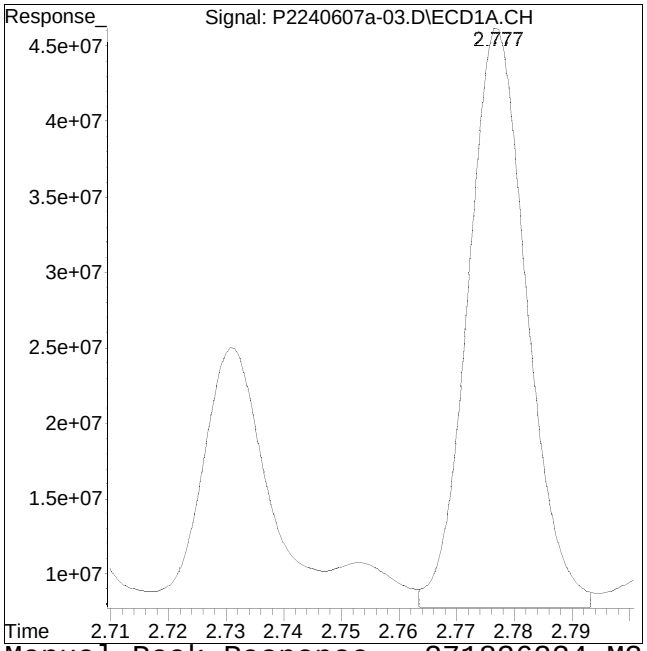
Original Peak Response = 55355437 Manual Peak Response = 247399606 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-03.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 7:03 Instrument : Pest 2
Sample : WG1931015-2,42,,+2154 pp11Quant Date : 6/7/2024 7:31 am

Compound #21: 1254-4



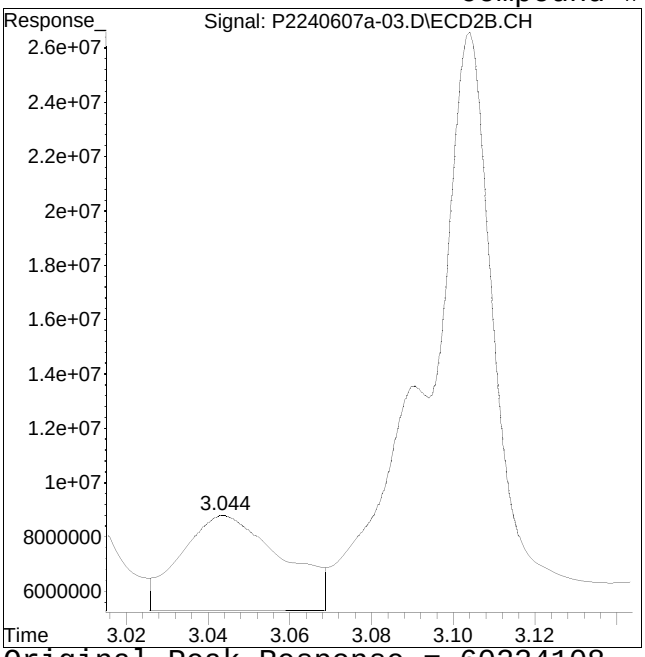


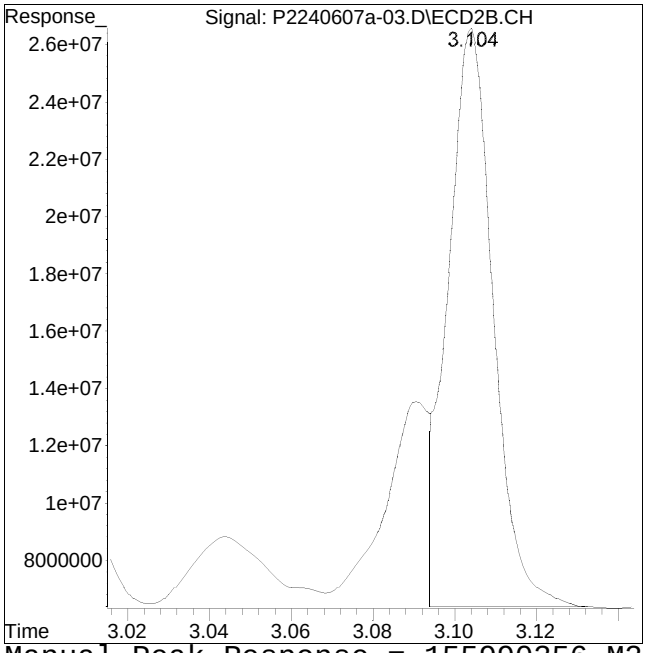
Original Peak Response = 176425189 Manual Peak Response = 271836224 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-03.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 7:03 Instrument : Pest 2
Sample : WG1931015-2,42,,+2154 pp11Quant Date : 6/7/2024 7:31 am

Compound #72: 1254-4 #2



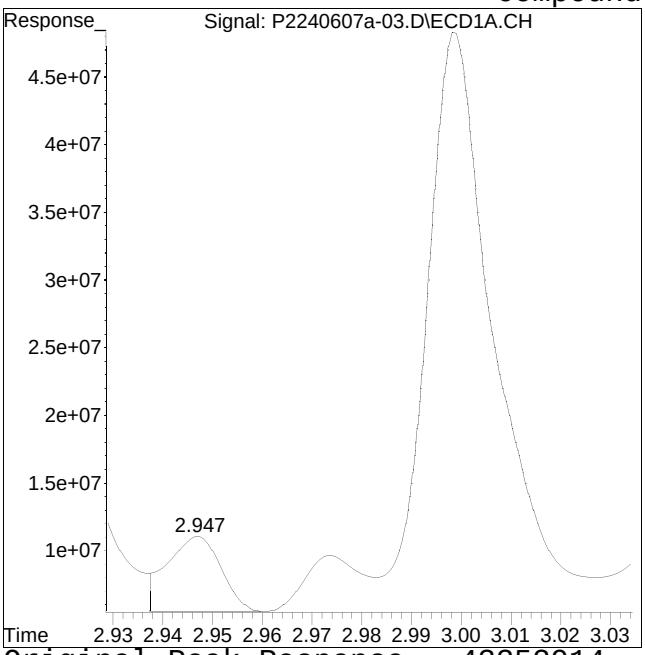


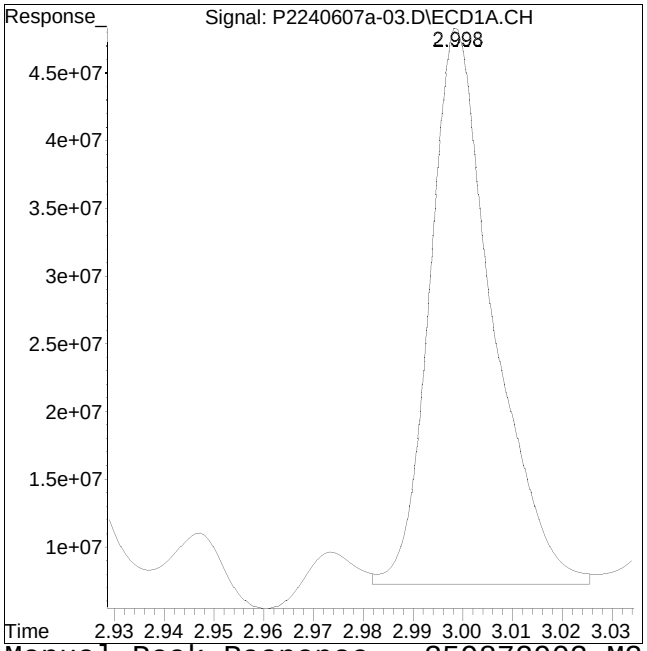
Original Peak Response = 60234108 Manual Peak Response = 155990356 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-03.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 7:03 Instrument : Pest 2
Sample : WG1931015-2,42,,+2154 pp11Quant Date : 6/7/2024 7:31 am

Compound #22: 1254-5



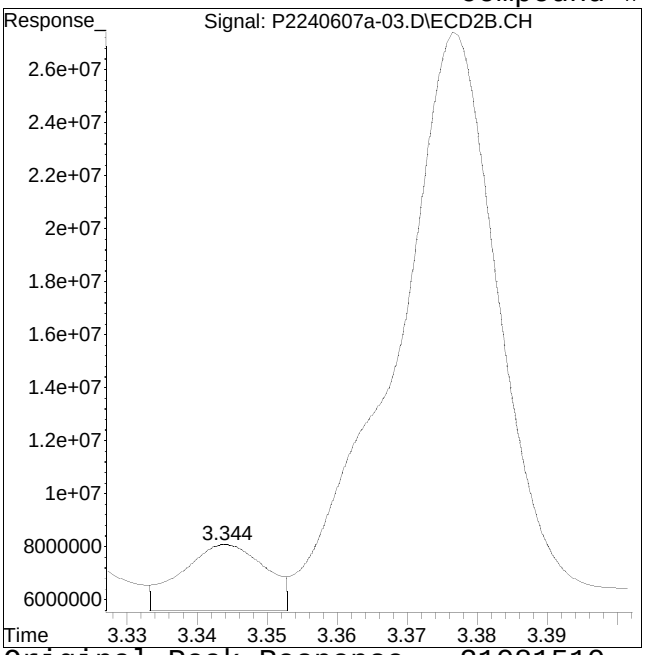


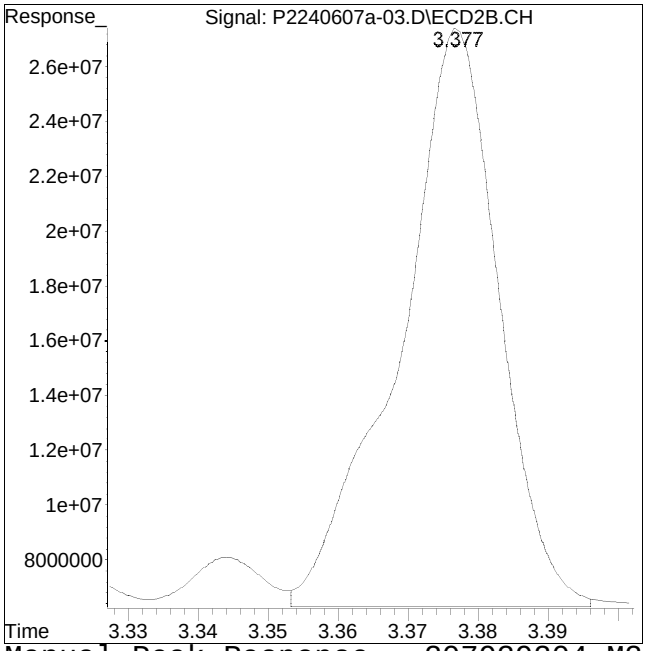
Original Peak Response = 43352914 Manual Peak Response = 359872903 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-03.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 7:03 Instrument : Pest 2
Sample : WG1931015-2,42,,+2154 pp11Quant Date : 6/7/2024 7:31 am

Compound #73: 1254-5 #2





Original Peak Response = 21081510 Manual Peak Response = 207939204 M2
M2 = Peak not found by automatic integration algorithm.

RT Shift Summary

Identification Summary
Form 10
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab Sample ID	: L2430219-01		
Client ID	: MW-1S		
Date Analyzed (1)	: 06/07/24 08:34	**Date Analyzed (2)**	: 06/07/24 08:34
Instrument ID (1)	: PEST2	**Instrument ID (2)**	: PEST2
GC Column (1)	: CLP-Pesticide	**GC Column (2)**	: CLP-PesticideII

Analyte	Peak	RT	RT Window From	RT Window To	Concentration	Mean Concentration	%RPD
AROCLOR 1254	1	2.30	2.30	2.40	9.84		
	2	2.41	2.41	2.51	8.53		
COLUMN 1	3	2.60	2.60	2.70	7.86		
	4	2.73	2.73	2.83	9.14		
	5	0.00	2.95	3.05	0.	0.0632J	
	1	2.64	2.63	2.73	7.		
	2	2.73	2.72	2.82	9.65		
COLUMN 2	3	0.00	2.94	3.04	0.		
	4	3.07	3.05	3.15	11.6		
	5	0.00	3.33	3.43	0.	0.0673J	NC
AROCLOR 1260	1	2.68	2.63	2.73	17.4		
	2	2.81	2.76	2.86	19.2		
COLUMN 1	3	3.13	3.08	3.18	9.18		
	4	3.28	3.23	3.33	14.1		
	5	3.43	3.38	3.48	16.7	0.109	
	1	3.05	3.00	3.10	18.7		
	2	3.15	3.10	3.20	22.2		
COLUMN 2	3	3.55	3.50	3.60	18.2		
	4	3.68	3.63	3.73	18.4		
	5	3.88	3.83	3.93	20.7	0.14	25

Identification Summary
Form 10
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab Sample ID	: L2430219-02		
Client ID	: MW-2S		
Date Analyzed (1)	: 06/07/24 08:43	**Date Analyzed (2)**	: 06/07/24 08:43
Instrument ID (1)	: PEST2	**Instrument ID (2)**	: PEST2
GC Column (1)	: CLP-Pesticide	**GC Column (2)**	: CLP-PesticideII

Analyte	Peak	RT	RT Window From	RT Window To	Concentration	Mean Concentration	%RPD
AROCLOR 1254	1	2.30	2.30	2.40	8.71		
	2	2.41	2.41	2.51	7.32		
COLUMN 1	3	2.60	2.60	2.70	6.92		
	4	2.73	2.73	2.83	9.07		
	5	0.00	2.95	3.05	0.	0.0572	
	1	2.64	2.63	2.73	6.9		
	2	2.73	2.72	2.82	11.2		
COLUMN 2	3	0.00	2.94	3.04	0.		
	4	3.07	3.05	3.15	11.5		
	5	0.00	3.33	3.43	0.	0.0705J	NC
AROCLOR 1260	1	2.68	2.63	2.73	16.3		
	2	2.81	2.76	2.86	19.1		
COLUMN 1	3	3.13	3.08	3.18	8.94		
	4	3.28	3.23	3.33	14.1		
	5	3.43	3.38	3.48	16.3	0.107	
	1	3.05	3.00	3.10	19.2		
	2	3.15	3.10	3.20	23.9		
COLUMN 2	3	3.55	3.50	3.60	17.3		
	4	3.68	3.63	3.73	19.3		
	5	3.88	3.83	3.93	20.8	0.144	30

Identification Summary
Form 10
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab Sample ID	: L2430219-03		
Client ID	: MW-3S		
Date Analyzed (1)	: 06/07/24 08:51	**Date Analyzed (2)**	: 06/07/24 08:51
Instrument ID (1)	: PEST2	**Instrument ID (2)**	: PEST2
GC Column (1)	: CLP-Pesticide	**GC Column (2)**	: CLP-PesticideII

Analyte	Peak	RT	RT Window From	RT Window To	Concentration	Mean Concentration	%RPD
AROCLOR 1254	1	2.30	2.30	2.40	9.08		
	2	2.41	2.41	2.51	8.38		
COLUMN 1	3	2.59	2.60	2.70	6.45		
	4	2.72	2.73	2.83	9.07		
	5	0.00	2.95	3.05	0.	0.0589	
	1	2.64	2.63	2.73	8.28		
	2	2.73	2.72	2.82	10.5		
COLUMN 2	3	2.96	2.94	3.04	8.41		
	4	3.07	3.05	3.15	8.66		
	5	0.00	3.33	3.43	0.	0.0641J	NC
AROCLOR 1260	1	2.68	2.63	2.73	16.4		
	2	2.81	2.76	2.86	18.6		
COLUMN 1	3	3.13	3.08	3.18	7.92		
	4	3.28	3.23	3.33	13.5		
	5	3.43	3.38	3.48	15.4	0.102	
	1	0.00	3.00	3.10	0.		
	2	0.00	3.10	3.20	0.		
COLUMN 2	3	3.55	3.50	3.60	16.4		
	4	3.68	3.63	3.73	18.4		
	5	3.88	3.83	3.93	20	0.13	24

Identification Summary
Form 10
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab Sample ID	: L2430219-04		
Client ID	: MW-4D		
Date Analyzed (1)	: 06/07/24 09:00	**Date Analyzed (2)**	: 06/07/24 09:00
Instrument ID (1)	: PEST2	**Instrument ID (2)**	: PEST2
GC Column (1)	: CLP-Pesticide	**GC Column (2)**	: CLP-PesticideII

Analyte	Peak	RT	RT Window From	RT Window To	Concentration	Mean Concentration	%RPD
AROCLOR 1254	1	2.30	2.30	2.40	9.91		
	2	2.41	2.41	2.51	9.48		
COLUMN 1	3	2.60	2.60	2.70	7.62		
	4	2.73	2.73	2.83	9.81		
	5	0.00	2.95	3.05	0.	0.0658J	
	1	2.64	2.63	2.73	8.95		
	2	2.73	2.72	2.82	12.4		
COLUMN 2	3	2.96	2.94	3.04	10.2		
	4	3.07	3.05	3.15	10.9		
	5	0.00	3.33	3.43	0.	0.0758	NC
AROCLOR 1260	1	2.68	2.63	2.73	16.5		
	2	2.81	2.76	2.86	19.8		
COLUMN 1	3	3.13	3.08	3.18	9.77		
	4	3.28	3.23	3.33	14.4		
	5	3.43	3.38	3.48	17.2	0.111	
	1	3.05	3.00	3.10	22.3		
	2	3.16	3.10	3.20	25.7		
COLUMN 2	3	3.55	3.50	3.60	18.5		
	4	3.68	3.63	3.73	20.6		
	5	3.88	3.83	3.93	22.6	0.157	34

Identification Summary
Form 10
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab Sample ID	: L2430219-05		
Client ID	: MW-5S		
Date Analyzed (1)	: 06/07/24 09:26	**Date Analyzed (2)**	: 06/07/24 09:26
Instrument ID (1)	: PEST2	**Instrument ID (2)**	: PEST2
GC Column (1)	: CLP-Pesticide	**GC Column (2)**	: CLP-PesticideII

Analyte	Peak	RT	RT Window From	RT Window To	Concentration	Mean Concentration	%RPD
AROCLOR 1254	1	2.30	2.30	2.40	7.24		
	2	2.41	2.41	2.51	7.53		
COLUMN 1	3	2.60	2.60	2.70	5.94		
	4	2.73	2.73	2.83	7.8		
	5	0.00	2.95	3.05	0.	0.0509	
	1	2.64	2.63	2.73	8.27		
	2	2.73	2.72	2.82	11.8		
COLUMN 2	3	2.96	2.94	3.04	9.37		
	4	3.07	3.05	3.15	9.02		
	5	0.00	3.33	3.43	0.	0.0687J	NC
AROCLOR 1260	1	2.68	2.63	2.73	13.2		
	2	2.81	2.76	2.86	15.4		
COLUMN 1	3	3.13	3.08	3.18	8.65		
	4	3.28	3.23	3.33	11.5		
	5	3.43	3.38	3.48	13.6	0.0892	
	1	3.05	3.00	3.10	17.9		
	2	0.00	3.10	3.20	0.		
COLUMN 2	3	3.55	3.50	3.60	17.		
	4	3.68	3.63	3.73	18.4		
	5	3.88	3.83	3.93	19.7	0.13	37

Identification Summary
Form 10
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab Sample ID	: L2430219-06		
Client ID	: MW-6D		
Date Analyzed (1)	: 06/07/24 09:35	**Date Analyzed (2)**	: 06/07/24 09:35
Instrument ID (1)	: PEST2	**Instrument ID (2)**	: PEST2
GC Column (1)	: CLP-Pesticide	**GC Column (2)**	: CLP-PesticideII

Analyte	Peak	RT	RT Window From	RT Window To	Concentration	Mean Concentration	%RPD
AROCLOR 1254	1	2.30	2.30	2.40	8.97		
	2	2.42	2.41	2.51	9.04		
COLUMN 1	3	2.60	2.60	2.70	6.29		
	4	2.73	2.73	2.83	8.27		
	5	0.00	2.95	3.05	0.	0.0582	
	1	2.64	2.63	2.73	13.2		
	2	2.73	2.72	2.82	12.8		
COLUMN 2	3	2.96	2.94	3.04	10.7		
	4	3.07	3.05	3.15	11.5		
	5	0.00	3.33	3.43	0.	0.0861	39
AROCLOR 1260	1	2.68	2.63	2.73	15.7		
	2	2.81	2.76	2.86	18.7		
COLUMN 1	3	3.13	3.08	3.18	9.45		
	4	3.28	3.23	3.33	13.7		
	5	3.43	3.38	3.48	16.	0.105	
	1	3.05	3.00	3.10	21.3		
	2	3.16	3.10	3.20	26.		
COLUMN 2	3	3.55	3.50	3.60	18.7		
	4	3.68	3.63	3.73	21.9		
	5	3.88	3.83	3.93	23.1	0.159	41

Identification Summary
Form 10
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab Sample ID	: L2430219-07		
Client ID	: MW-7S		
Date Analyzed (1)	: 06/07/24 09:43	**Date Analyzed (2)**	: 06/07/24 09:43
Instrument ID (1)	: PEST2	**Instrument ID (2)**	: PEST2
GC Column (1)	: CLP-Pesticide	**GC Column (2)**	: CLP-PesticideII

			RT Window			Mean	
Analyte	**Peak**	**RT**	**From**	**To**	**Concentration**	**Concentration**	**%RPD**
AROCLOR 1254	1	2.30	2.30	2.40	9.13		
	2	2.41	2.41	2.51	8.23		
COLUMN 1	3	2.60	2.60	2.70	5.98		
	4	2.73	2.73	2.83	7.97		
	5	0.00	2.95	3.05	0.	0.0559	
	1	0.00	2.63	2.73	0.		
	2	2.73	2.72	2.82	10.4		
COLUMN 2	3	2.96	2.94	3.04	8.96		
	4	3.07	3.05	3.15	9.61		
	5	0.00	3.33	3.43	0.	0.069J	NC
AROCLOR 1260	1	2.68	2.63	2.73	14.2		
	2	2.81	2.76	2.86	17.6		
COLUMN 1	3	3.13	3.08	3.18	8.53		
	4	3.28	3.23	3.33	12.2		
	5	3.43	3.38	3.48	14.7	0.096	
	1	3.06	3.00	3.10	18.3		
	2	3.16	3.10	3.20	23.6		
COLUMN 2	3	3.55	3.50	3.60	17.5		
	4	3.68	3.63	3.73	20.1		
	5	3.88	3.83	3.93	20.8	0.143	39

Identification Summary
Form 10
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab Sample ID	: L2430219-08		
Client ID	: MW-8S		
Date Analyzed (1)	: 06/07/24 09:52	**Date Analyzed (2)**	: 06/07/24 09:52
Instrument ID (1)	: PEST2	**Instrument ID (2)**	: PEST2
GC Column (1)	: CLP-Pesticide	**GC Column (2)**	: CLP-PesticideII

Analyte	Peak	RT	RT Window From	RT Window To	Concentration	Mean Concentration	%RPD
AROCLOR 1254	1	2.30	2.30	2.40	9.19		
	2	2.41	2.41	2.51	8.9		
COLUMN 1	3	2.60	2.60	2.70	6.44		
	4	2.73	2.73	2.83	9.48		
	5	0.00	2.95	3.05	0.	0.0607	
	1	2.64	2.63	2.73	9.11		
	2	2.73	2.72	2.82	10.1		
COLUMN 2	3	2.96	2.94	3.04	9.24		
	4	3.07	3.05	3.15	10.4		
	5	0.00	3.33	3.43	0.	0.0694J	NC
AROCLOR 1260	1	2.68	2.63	2.73	14.2		
	2	2.81	2.76	2.86	16.5		
COLUMN 1	3	3.13	3.08	3.18	8.35		
	4	3.28	3.23	3.33	12.2		
	5	3.43	3.38	3.48	14.7	0.0942	
	1	3.06	3.00	3.10	18.2		
	2	3.16	3.10	3.20	21.4		
COLUMN 2	3	3.55	3.50	3.60	16.8		
	4	3.68	3.63	3.73	18.1		
	5	3.88	3.83	3.93	19.6	0.134	35

Identification Summary
Form 10
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab Sample ID	: L2430219-09		
Client ID	: DUP		
Date Analyzed (1)	: 06/07/24 10:01	**Date Analyzed (2)**	: 06/07/24 10:01
Instrument ID (1)	: PEST2	**Instrument ID (2)**	: PEST2
GC Column (1)	: CLP-Pesticide	**GC Column (2)**	: CLP-PesticideII

Analyte	Peak	RT	RT Window From	RT Window To	Concentration	Mean Concentration	%RPD
AROCLOR 1254	1	2.30	2.30	2.40	11.7		
	2	2.41	2.41	2.51	9.77		
COLUMN 1	3	2.60	2.60	2.70	8.24		
	4	2.73	2.73	2.83	11.7		
	5	0.00	2.95	3.05	0.	0.074	
	1	0.00	2.63	2.73	0.		
	2	2.73	2.72	2.82	11.		
COLUMN 2	3	2.96	2.94	3.04	10.2		
	4	3.07	3.05	3.15	11.8		
	5	0.00	3.33	3.43	0.	0.0784	6
AROCLOR 1260	1	2.68	2.63	2.73	16.7		
	2	2.81	2.76	2.86	19.7		
COLUMN 1	3	3.13	3.08	3.18	11.2		
	4	3.28	3.23	3.33	14.7		
	5	3.43	3.38	3.48	20.3	0.118	
	1	3.06	3.00	3.10	21.6		
	2	3.16	3.10	3.20	25.5		
COLUMN 2	3	3.55	3.50	3.60	19.1		
	4	3.68	3.63	3.73	22.4		
	5	3.88	3.83	3.93	23.6	0.16	30

Identification Summary
Form 10
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab Sample ID	: L2430219-10		
Client ID	: FB		
Date Analyzed (1)	: 06/07/24 10:10	**Date Analyzed (2)**	: 06/07/24 10:10
Instrument ID (1)	: PEST2	**Instrument ID (2)**	: PEST2
GC Column (1)	: CLP-Pesticide	**GC Column (2)**	: CLP-PesticideII

Analyte	Peak	RT	RT Window From	RT Window To	Concentration	Mean Concentration	%RPD
AROCLOR 1254	1	2.30	2.30	2.40	10.9		
	2	2.42	2.41	2.51	8.69		
COLUMN 1	3	2.60	2.60	2.70	7.46		
	4	2.73	2.73	2.83	10.1		
	5	0.00	2.95	3.05	0.	0.0664J	
	1	2.64	2.63	2.73	10.8		
	2	2.73	2.72	2.82	12.5		
COLUMN 2	3	2.96	2.94	3.04	11.		
	4	3.07	3.05	3.15	10.4		
	5	0.00	3.33	3.43	0.	0.08	NC
AROCLOR 1260	1	2.68	2.63	2.73	15.9		
	2	2.81	2.76	2.86	20.8		
COLUMN 1	3	3.13	3.08	3.18	9.6		
	4	3.28	3.23	3.33	14.6		
	5	3.43	3.38	3.48	16.8	0.111	
	1	3.06	3.00	3.10	24.6		
	2	3.16	3.10	3.20	27.6		
COLUMN 2	3	3.55	3.50	3.60	21.1		
	4	3.68	3.63	3.73	22.3		
	5	3.88	3.83	3.93	23.8	0.171	43

Aroclor Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240606A\
Data File : P2240606a-46.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 2:06
Operator : pest2:mhg
Sample : WG1930604-1,42,,
Misc : wg1930475,WG1930604,ical21102
ALS Vial : 46 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 05:12:00 2024
Quant Method : I:\PCB\Pest2\2024\240606A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240606A\P2240606a-29.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.159	1.229	471.4E6	299.7E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 491953716				Recovery =	95.81%	
	Standard Area 1 : #2 = 316970043				Recovery =	94.57%	
14) i	2154_1br2nb	1.159	1.229	471.4E6	299.7E6	25.000M4	25.000M4
23) i	4268_1br2nb	1.159	1.229	471.4E6	299.7E6	25.000M4	25.000M4
34) i	1248_1br2nb	1.159	1.229	471.4E6	299.7E6	25.000M4	25.000M4
40) i	3262_1br2nb	1.159	1.229	471.4E6	299.7E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.443	1.603	313.3E6	194.2E6	12.678M4	13.152M4
	Spiked Amount 20.000	Range 30 - 150			Recovery =	63.39%	65.76%
3) s	Decachlorobi	4.016	4.529	257.9E6	146.4E6	16.147	21.057M3
	Spiked Amount 20.000	Range 30 - 150			Recovery =	80.73%	105.28%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240606A\
Data File : P2240606a-46.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 2:06
Operator : pest2:mhg
Sample : WG1930604-1,42,,
Misc : wg1930475,WG1930604,ical21102
ALS Vial : 46 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 05:12:00 2024
Quant Method : I:\PCB\Pest2\2024\240606A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240606A\P2240606a-29.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
10) l2 1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2 1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240606A\
Data File : P2240606a-46.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 2:06
Operator : pest2:mhg
Sample : WG1930604-1,42,,
Misc : wg1930475,WG1930604,ical21102
ALS Vial : 46 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 05:12:00 2024
Quant Method : I:\PCB\Pest2\2024\240606A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240606A\P2240606a-29.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240606A\
Data File : P2240606a-46.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 2:06
Operator : pest2:mhg
Sample : WG1930604-1,42,,
Misc : wg1930475,WG1930604,ical21102
ALS Vial : 46 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 05:12:00 2024
Quant Method : I:\PCB\Pest2\2024\240606A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240606A\P2240606a-29.D
Sub List : Default - All compounds listed

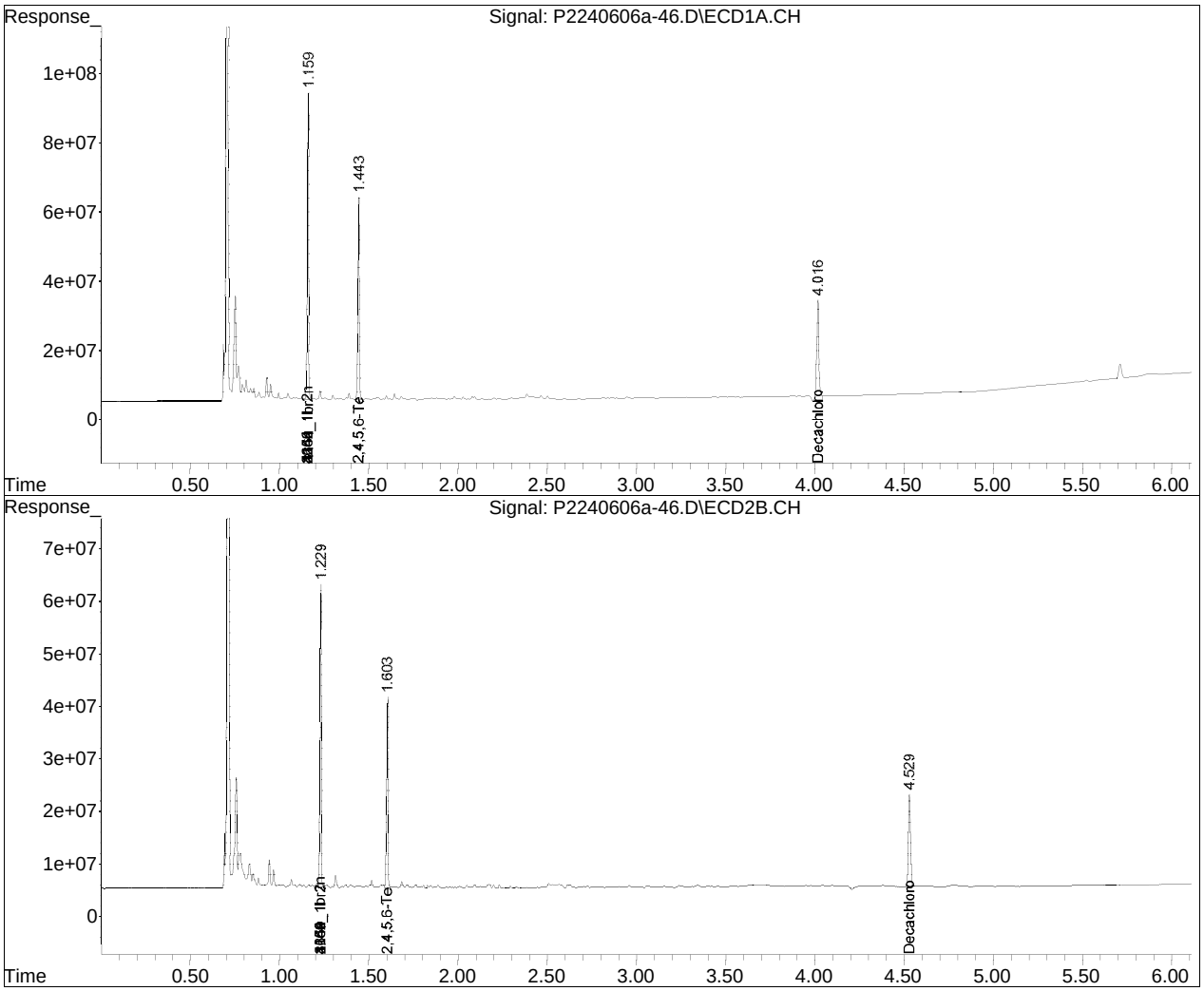
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

Sub List : Default - All compounds listedP2240606a-29.D•

Data Path : I:\PCB\Pest2\2024\240606A\
Data File : P2240606a-46.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 2:06
Operator : pest2:mhg
Sample : WG1930604-1,42,,
Misc : wg1930475,WG1930604,ical21102
ALS Vial : 46 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 05:12:00 2024
Quant Method : I:\PCB\Pest2\2024\240606A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

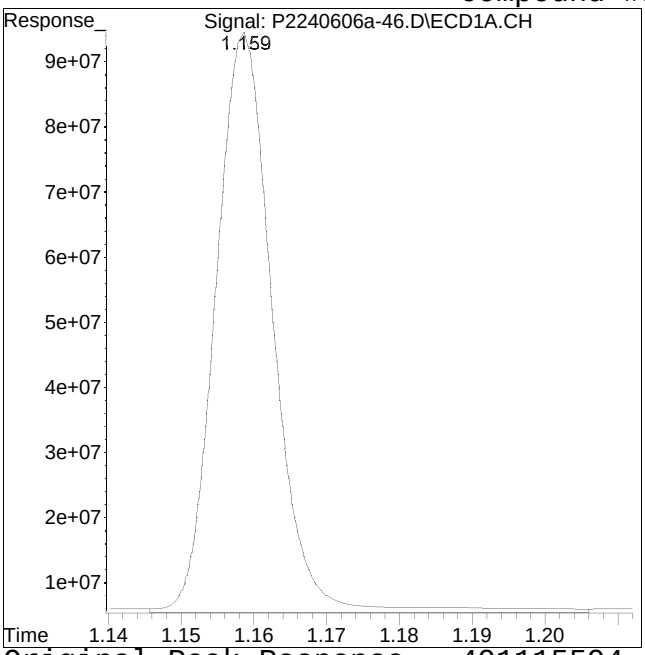
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

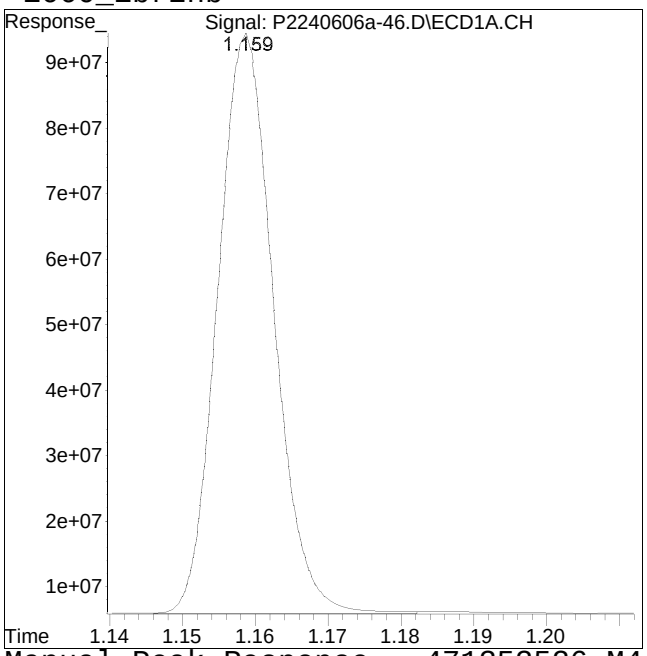


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-46.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:06 Instrument : Pest 2
Sample : WG1930604-1,42,, Quant Date : 6/7/2024 5:12 am

Compound #1: 1660_1br2nb



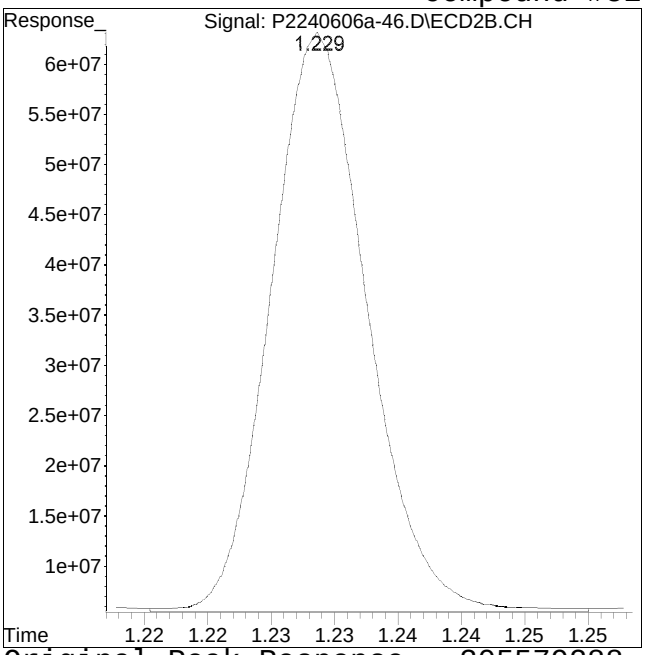


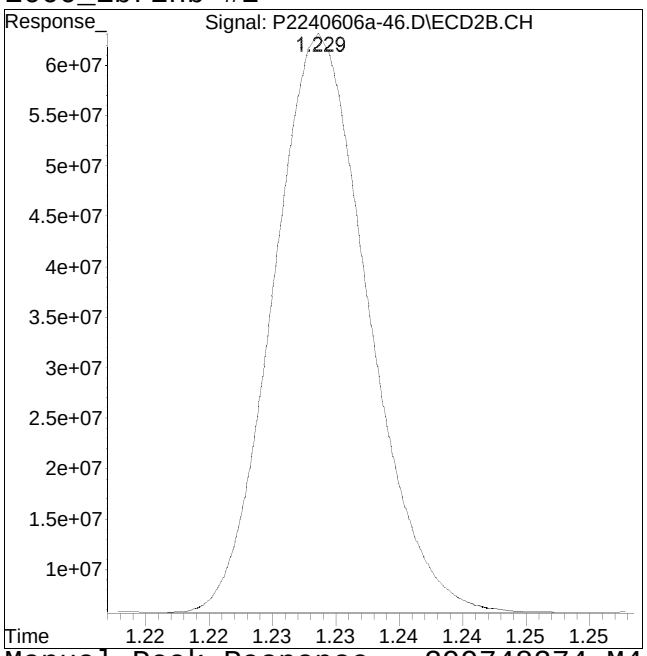
Original Peak Response = 491115594 Manual Peak Response = 471353526 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-46.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:06 Instrument : Pest 2
Sample : WG1930604-1,42,, Quant Date : 6/7/2024 5:12 am

Compound #52: 1660_1br2nb #2



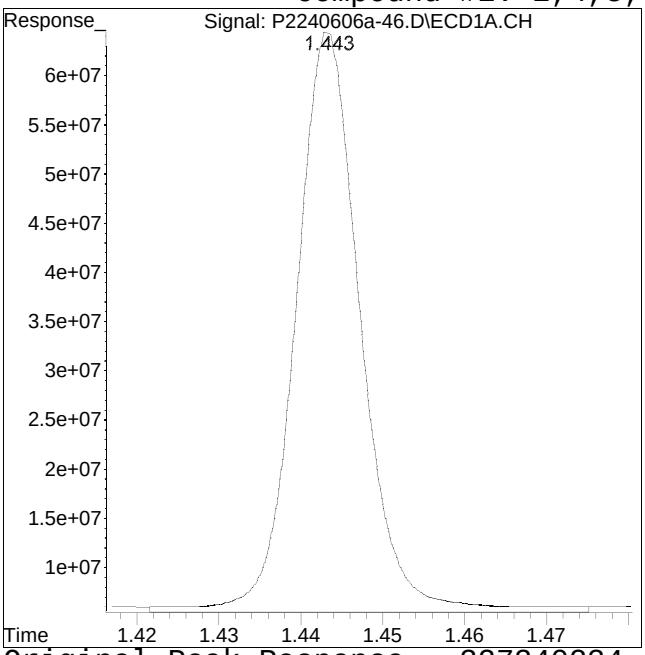


Original Peak Response = 305579288 Manual Peak Response = 299748274 M4
M4 = Poor automated baseline construction.

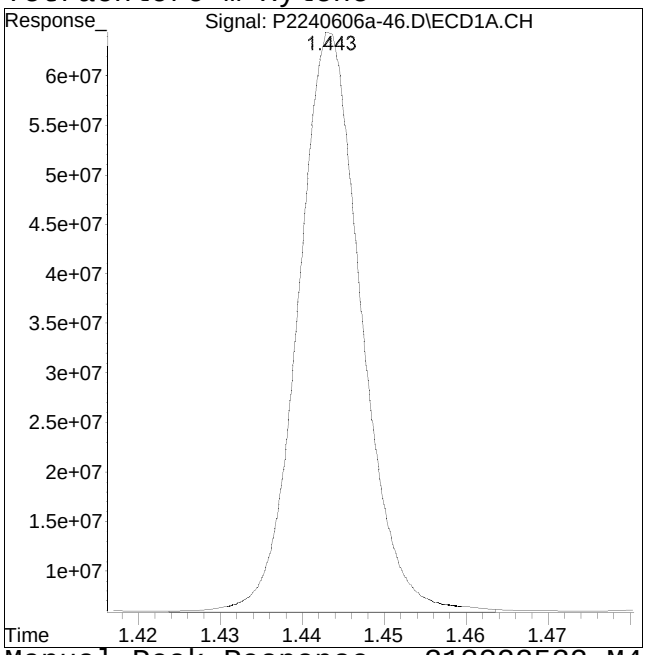
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-46.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:06 Instrument : Pest 2
Sample : WG1930604-1,42,, Quant Date : 6/7/2024 5:12 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 327340234



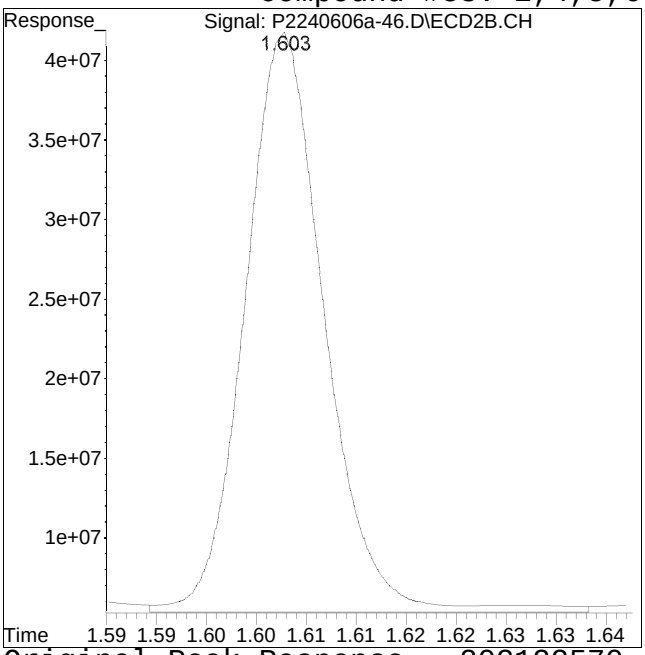
Manual Peak Response = 313322532 M4

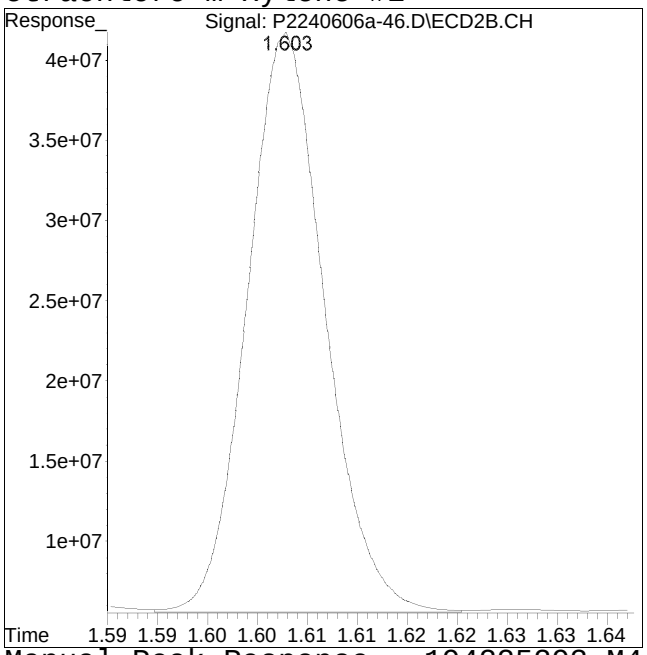
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-46.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:06 Instrument : Pest 2
Sample : WG1930604-1,42,, Quant Date : 6/7/2024 5:12 am

Compound #53: 2,4,5,6-Tetrachloro-m-xylene #2



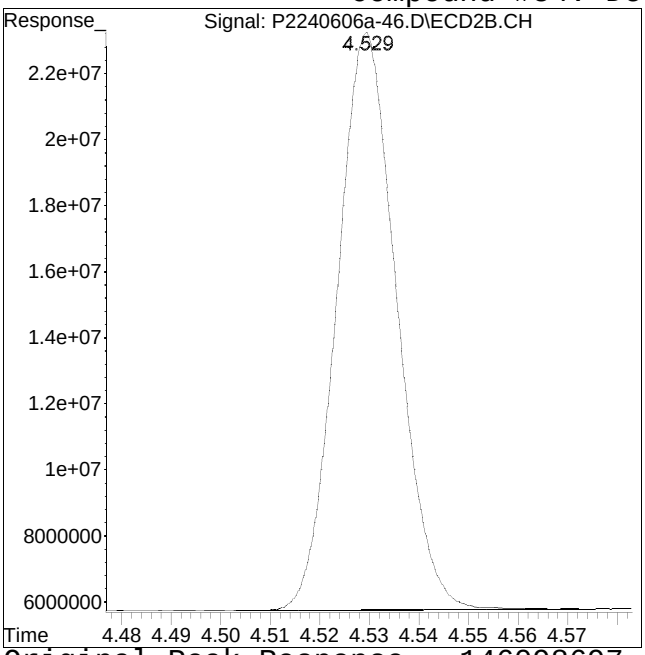


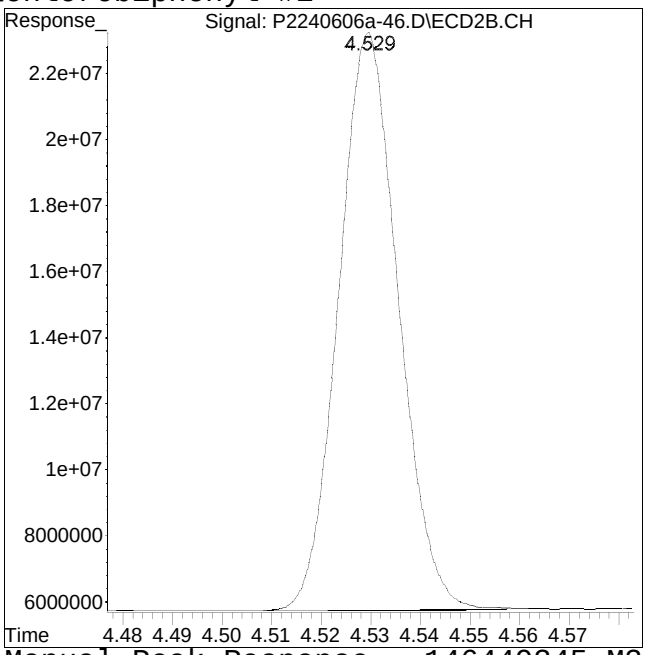
Original Peak Response = 202122570 Manual Peak Response = 194225293 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-46.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:06 Instrument : Pest 2
Sample : WG1930604-1,42,, Quant Date : 6/7/2024 5:12 am

Compound #54: Decachlorobiphenyl #2





Original Peak Response = 146098697 Manual Peak Response = 146449345 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240606A\
Data File : P2240606a-47.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 2:15
Operator : pest2:mhg
Sample : WG1930604-2,42,,
Misc : wg1930475,WG1930604,ical21102
ALS Vial : 47 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 05:12:04 2024
Quant Method : I:\PCB\Pest2\2024\240606A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240606A\P2240606a-29.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.159	1.229	455.4E6	276.1E6	25.000M4	25.000
Standard Area 1 : #1 = 491953716				Recovery =	92.57%	
Standard Area 1 : #2 = 316970043				Recovery =	87.11%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.445	1.603	285.4E6	172.0E6	11.954M4	12.646
Spiked Amount 20.000	Range 30 - 150		Recovery =	59.77%	63.23%	
3) s Decachlorobi	4.018	4.530	248.7E6	140.9E6	16.122	21.992
Spiked Amount 20.000	Range 30 - 150		Recovery =	80.61%	109.96%	
Target Compounds						
4) l1 1016-1	1.584	1.804	64950779	48723043	158.887M4	209.669
5) l1 1016-2	1.725	1.975	157.7E6	98133889	175.963M4	192.274M3
6) l1 1016-3	1.914	2.176	312.3E6	198.9E6	169.550M4	194.797M4
7) l1 1016-4	1.969	2.236	129.0E6	77264789	175.704M3	204.613M3
8) l1 1016-5	2.139	2.447	136.8E6	71437280	167.842M4	223.196
Sum 1016-1			800.7E6	494.4E6	847.945	1024.548
Average 1016-1					169.589	204.910
9) l2 1260-1	2.683	3.056	187.4E6	134.4E6	159.338M3	225.503M4
10) l2 1260-2	2.813	3.158	292.5E6	142.0E6	165.011M4	208.174M3
11) l2 1260-3	3.129	3.550	167.0E6	123.9E6	151.643M4	234.226M4
12) l2 1260-4	3.285	3.680	379.3E6	241.9E6	160.771M4	227.515M4
13) l2 1260-5	3.433	3.881	275.8E6	175.0E6	166.756M1	240.156M4
Sum 1260-1			1301.9E6	817.2E6	803.518	1135.574
Average 1260-1					160.704	227.115
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240606A\
Data File : P2240606a-47.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 2:15
Operator : pest2:mhg
Sample : WG1930604-2,42,,
Misc : wg1930475,WG1930604,ical21102
ALS Vial : 47 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 05:12:04 2024
Quant Method : I:\PCB\Pest2\2024\240606A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240606A\P2240606a-29.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

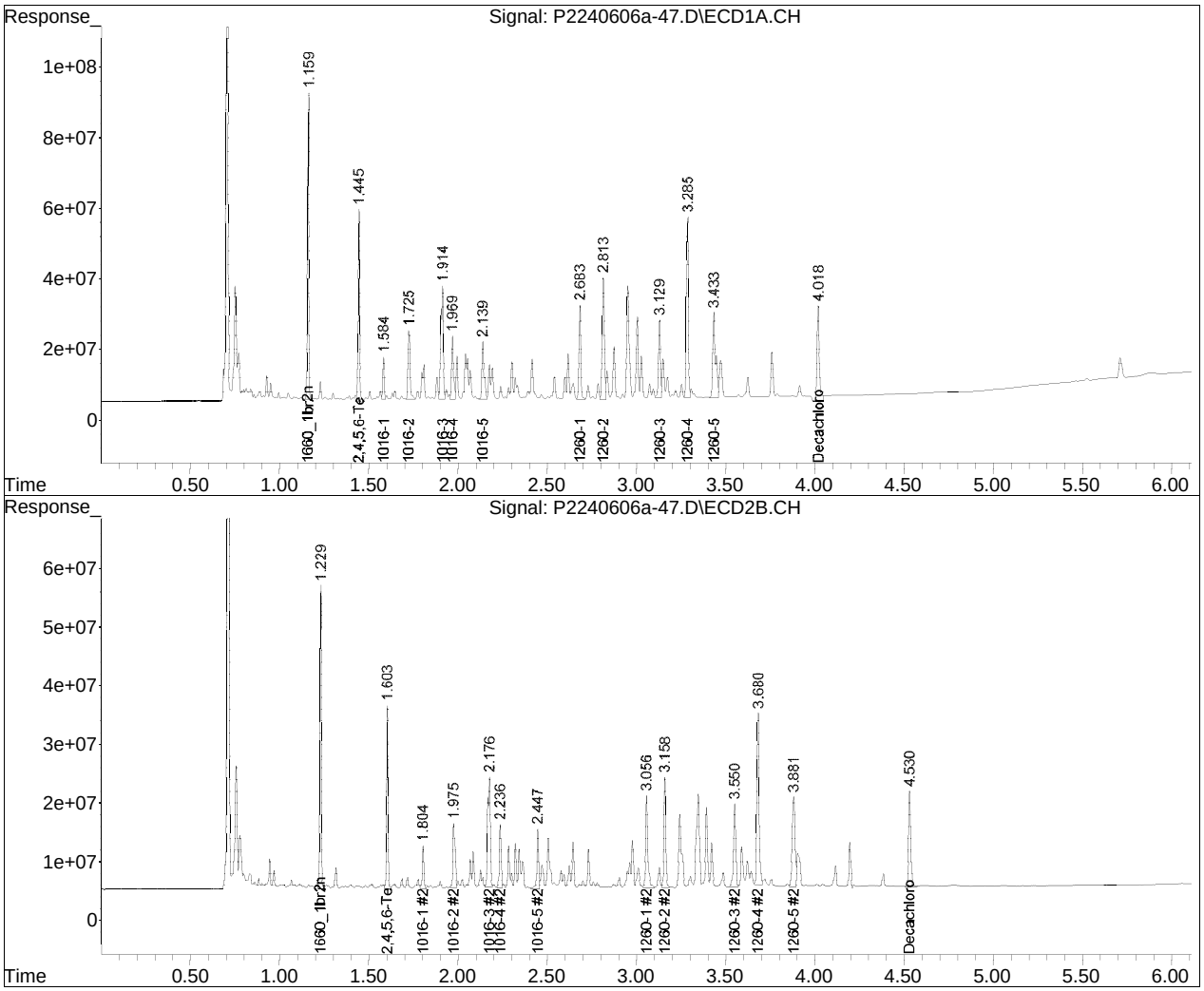
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2024\240606A\P2240606a-29.D•

Data Path : I:\PCB\Pest2\2024\240606A\
Data File : P2240606a-47.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 2:15
Operator : pest2:mhg
Sample : WG1930604-2,42,,
Misc : wg1930475,WG1930604,ical21102
ALS Vial : 47 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 05:12:04 2024
Quant Method : I:\PCB\Pest2\2024\240606A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

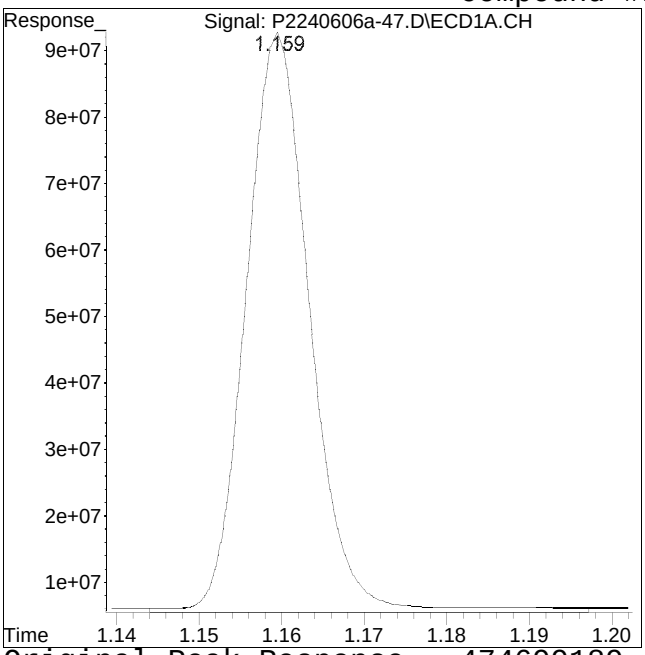
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

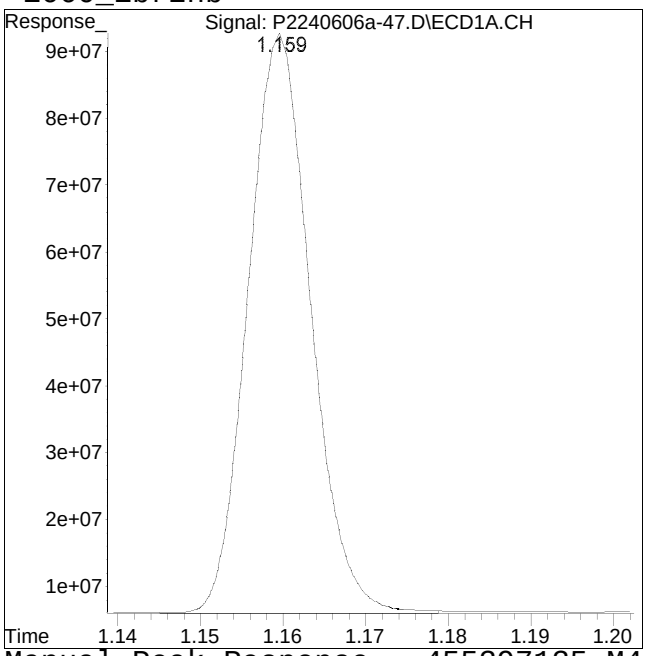


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-47.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:15 Instrument : Pest 2
Sample : WG1930604-2,42,, Quant Date : 6/7/2024 5:12 am

Compound #1: 1660_1br2nb



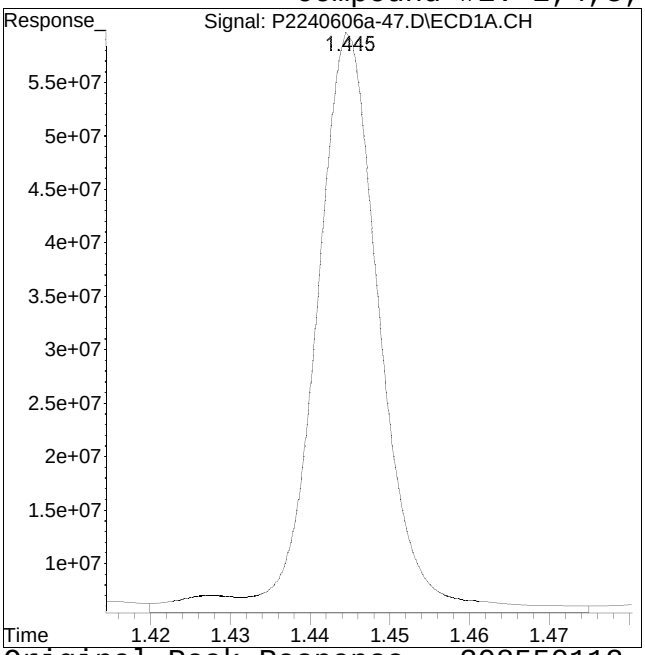


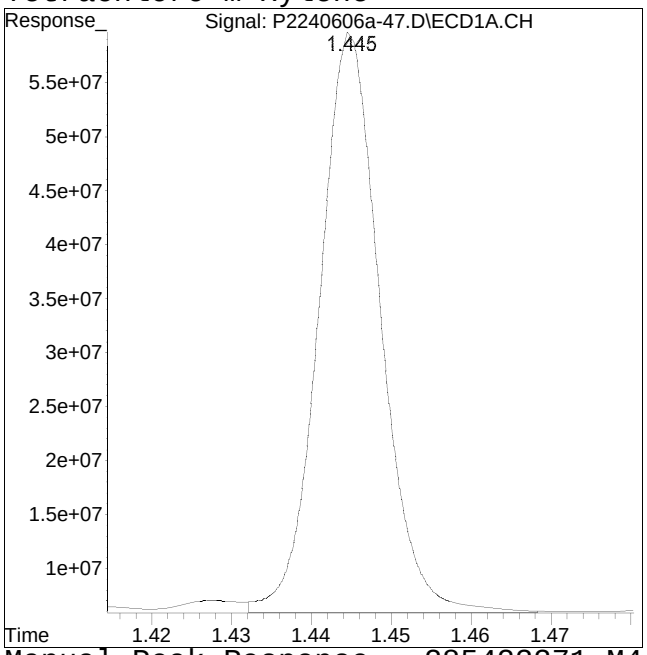
Original Peak Response = 474699189 Manual Peak Response = 455397135 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-47.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:15 Instrument : Pest 2
Sample : WG1930604-2,42,, Quant Date : 6/7/2024 5:12 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



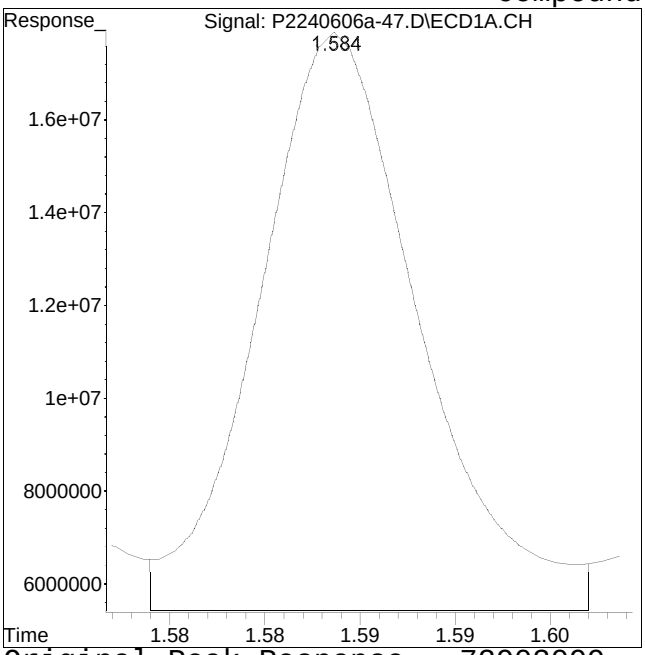


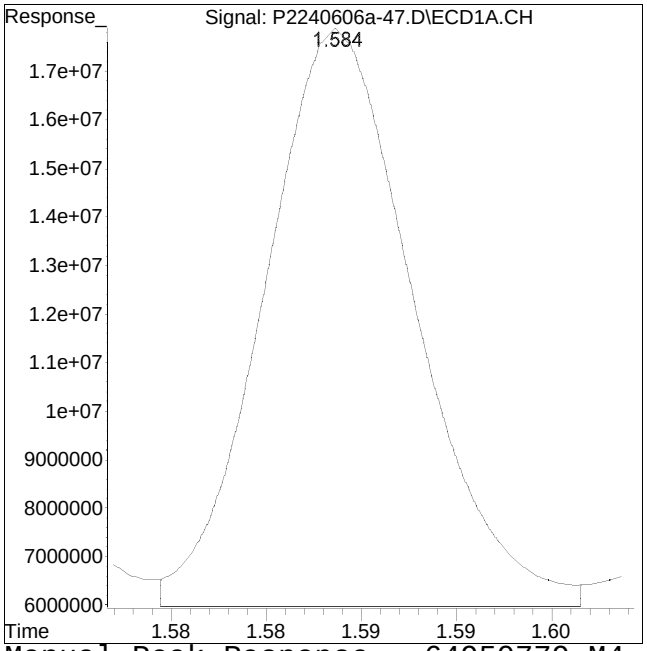
Original Peak Response = 308550112 Manual Peak Response = 285423371 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-47.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:15 Instrument : Pest 2
Sample : WG1930604-2,42,, Quant Date : 6/7/2024 5:12 am

Compound #4: 1016-1



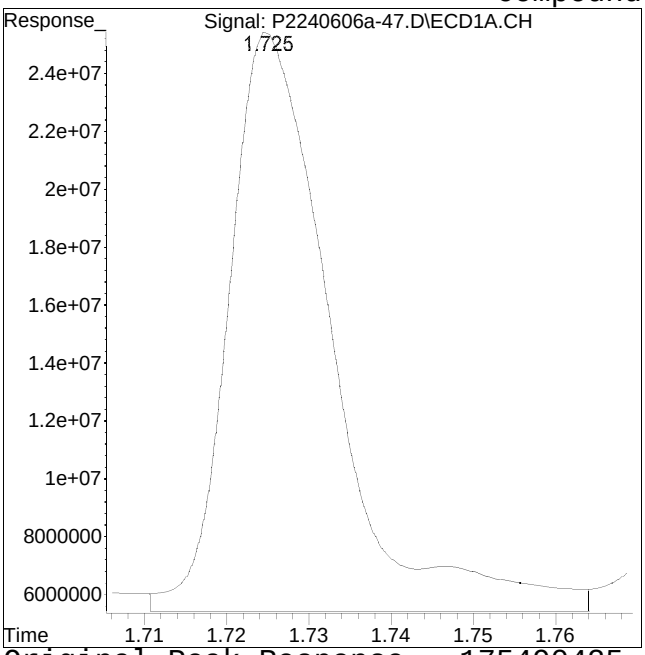


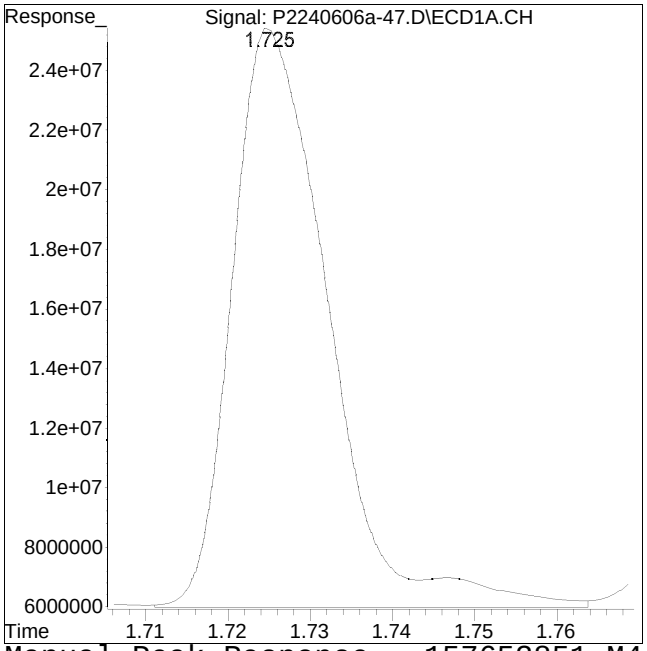
Original Peak Response = 72903099 Manual Peak Response = 64950779 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-47.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:15 Instrument : Pest 2
Sample : WG1930604-2,42,, Quant Date : 6/7/2024 5:12 am

Compound #5: 1016-2



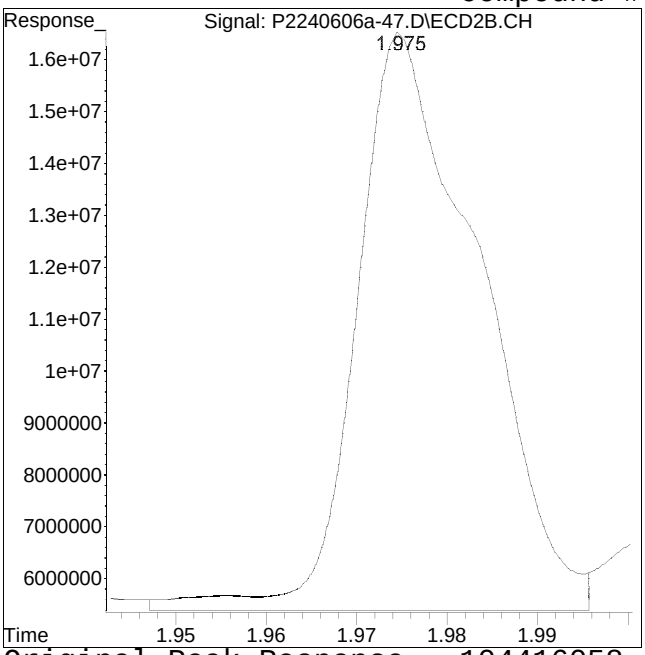


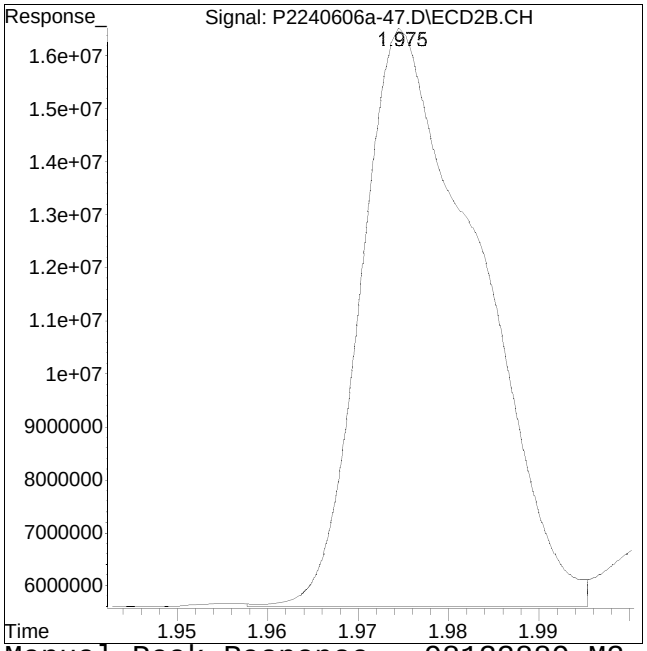
Original Peak Response = 175490425 Manual Peak Response = 157653851 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-47.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:15 Instrument : Pest 2
Sample : WG1930604-2,42,, Quant Date : 6/7/2024 5:12 am

Compound #56: 1016-2 #2



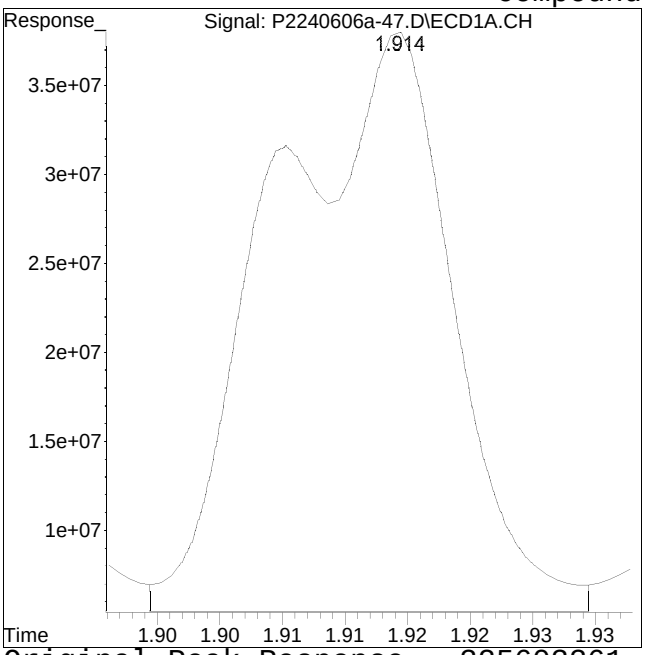


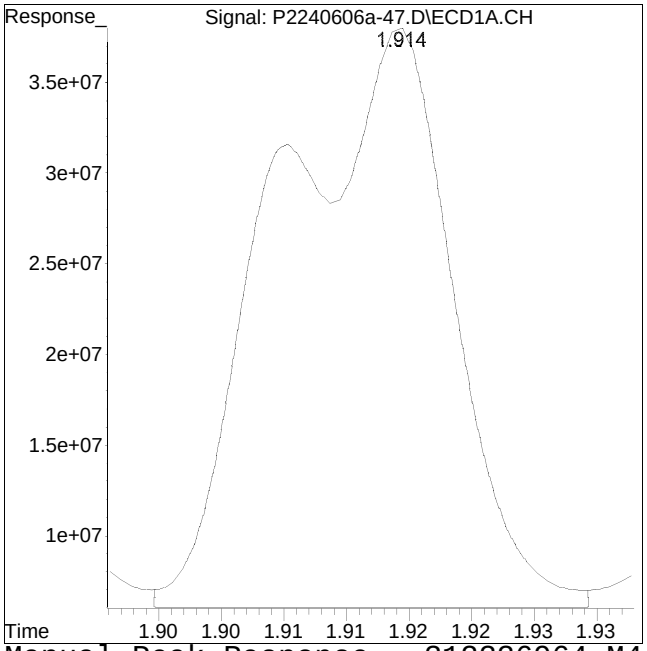
Original Peak Response = 104416058 Manual Peak Response = 98133889 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-47.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:15 Instrument : Pest 2
Sample : WG1930604-2,42,, Quant Date : 6/7/2024 5:12 am

Compound #6: 1016-3



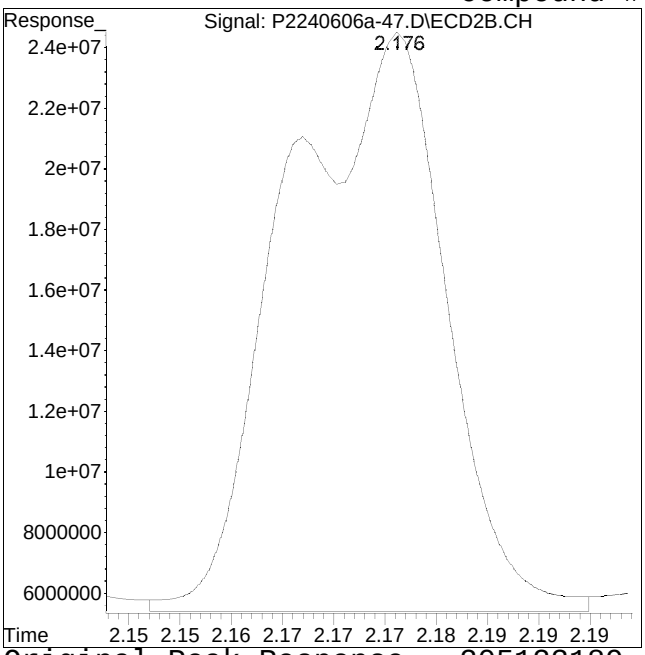


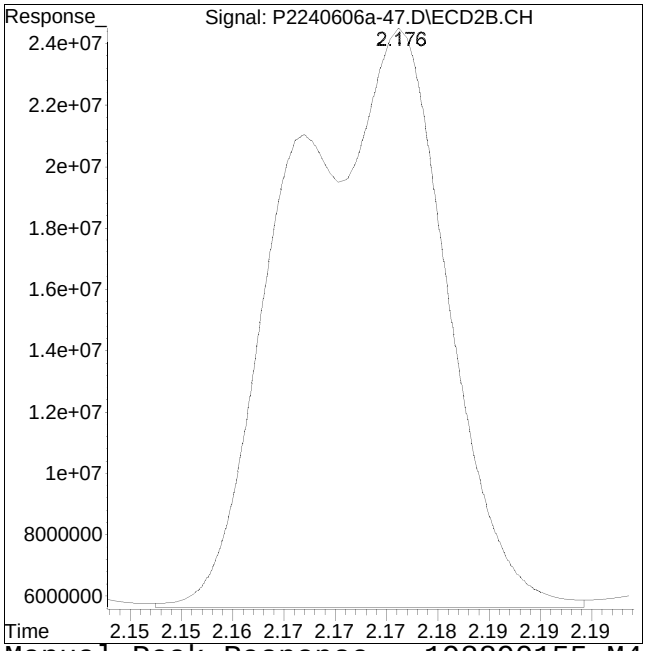
Original Peak Response = 325603361 Manual Peak Response = 312336964 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-47.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:15 Instrument : Pest 2
Sample : WG1930604-2,42,, Quant Date : 6/7/2024 5:12 am

Compound #57: 1016-3 #2



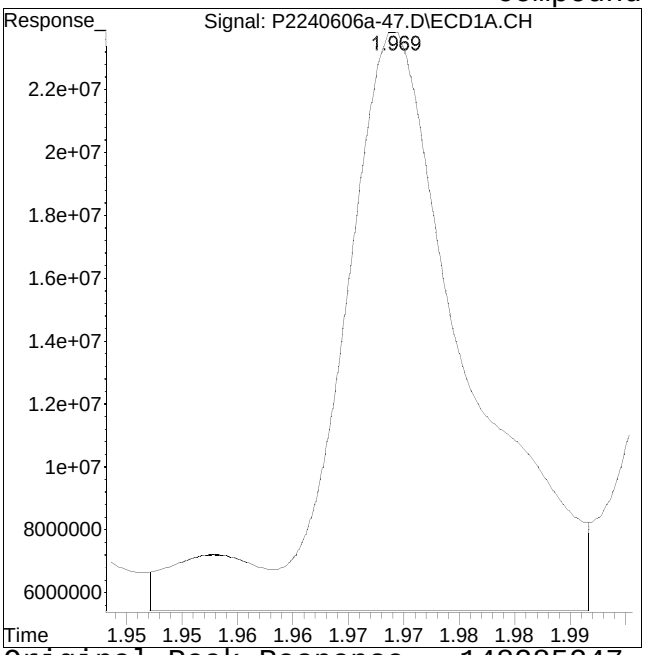


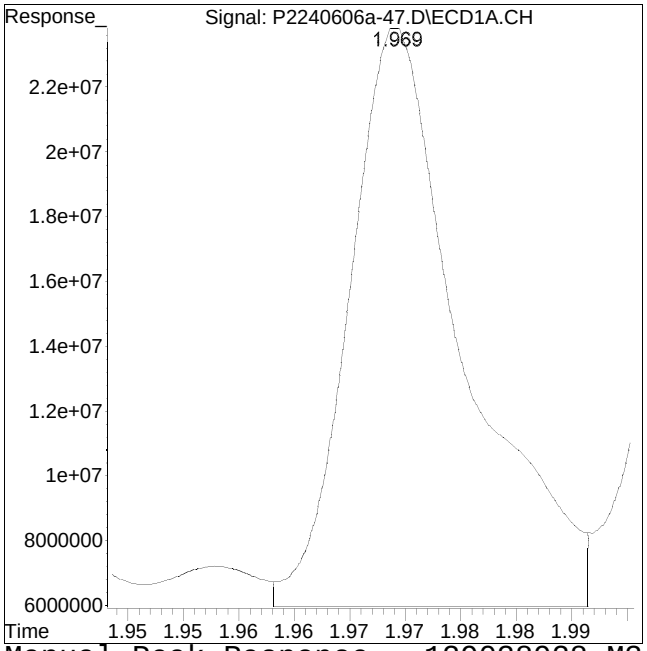
Original Peak Response = 205123189 Manual Peak Response = 198890155 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-47.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:15 Instrument : Pest 2
Sample : WG1930604-2,42,, Quant Date : 6/7/2024 5:12 am

Compound #7: 1016-4



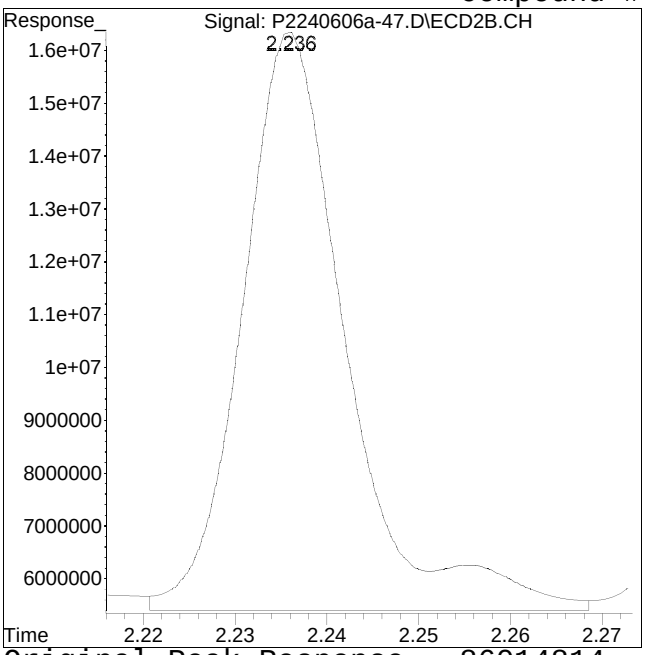


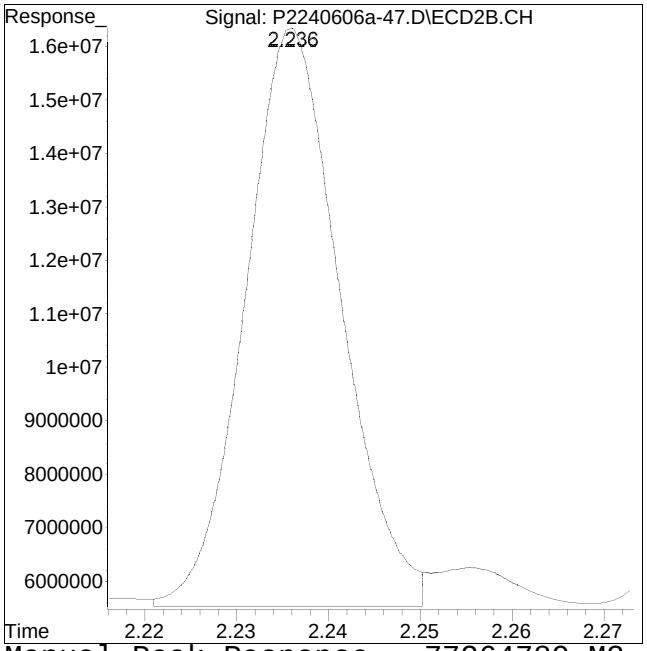
Original Peak Response = 148285247 Manual Peak Response = 129038928 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-47.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:15 Instrument : Pest 2
Sample : WG1930604-2,42,, Quant Date : 6/7/2024 5:12 am

Compound #58: 1016-4 #2



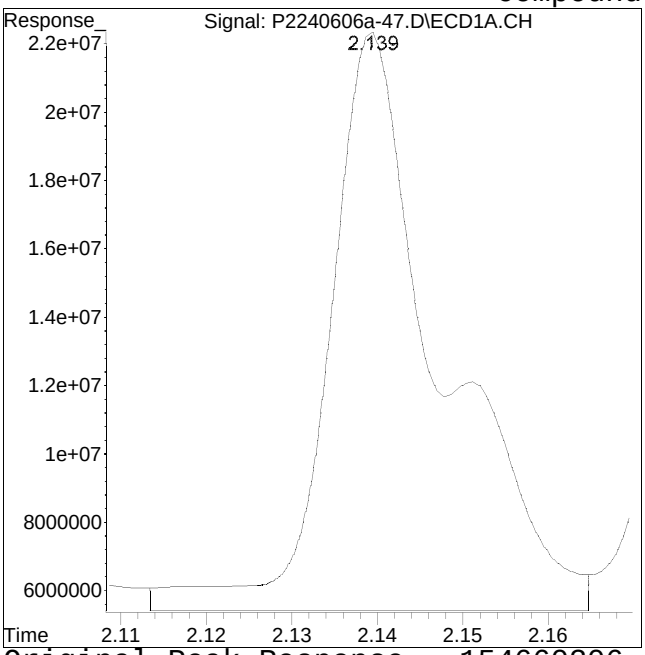


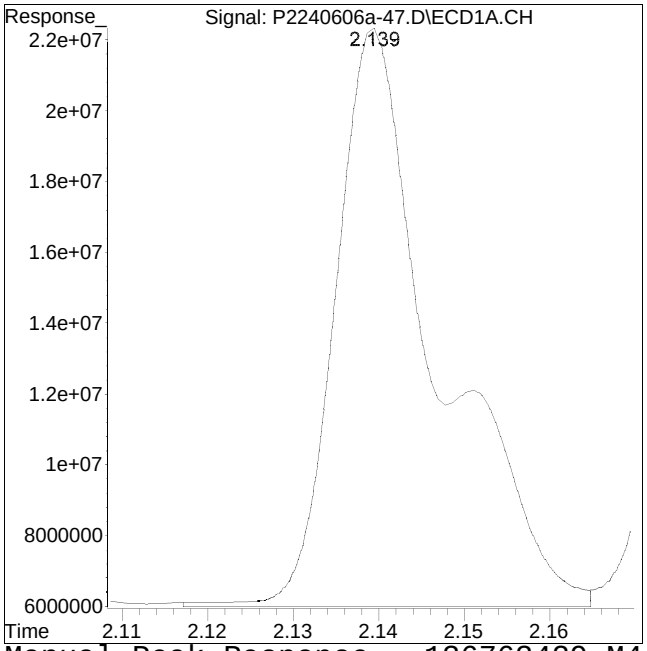
Original Peak Response = 86014814 Manual Peak Response = 77264789 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-47.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:15 Instrument : Pest 2
Sample : WG1930604-2,42,, Quant Date : 6/7/2024 5:12 am

Compound #8: 1016-5



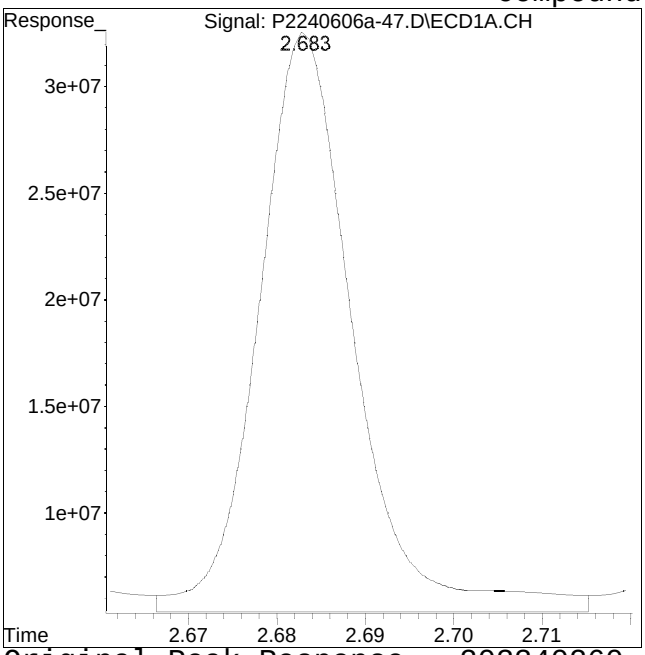


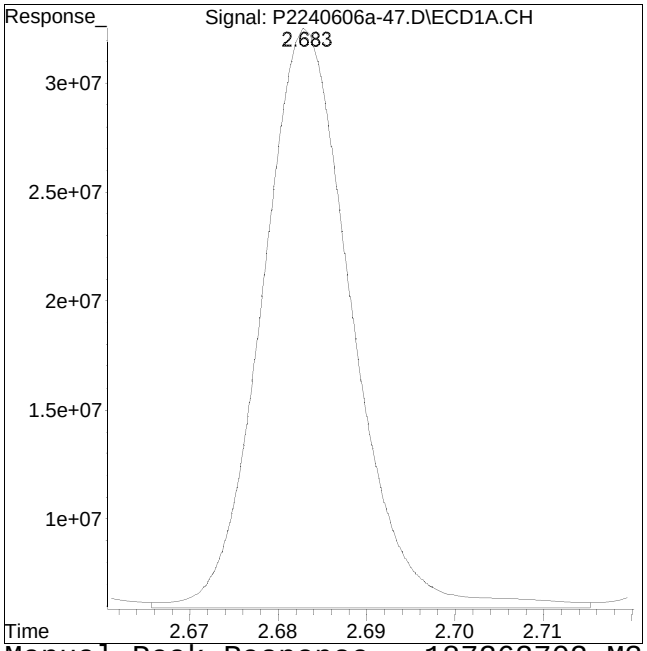
Original Peak Response = 154660306 Manual Peak Response = 136763429 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-47.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:15 Instrument : Pest 2
Sample : WG1930604-2,42,, Quant Date : 6/7/2024 5:12 am

Compound #9: 1260-1



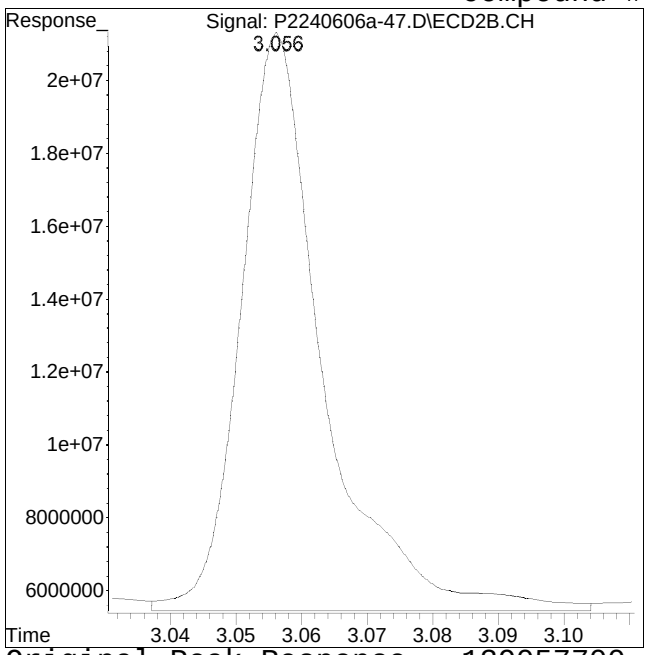


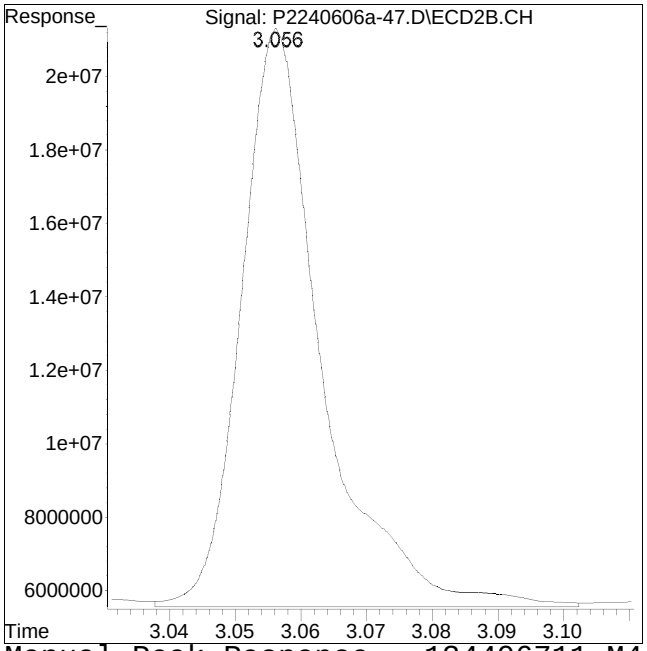
Original Peak Response = 203340260 Manual Peak Response = 187363702 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-47.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:15 Instrument : Pest 2
Sample : WG1930604-2,42,, Quant Date : 6/7/2024 5:12 am

Compound #60: 1260-1 #2



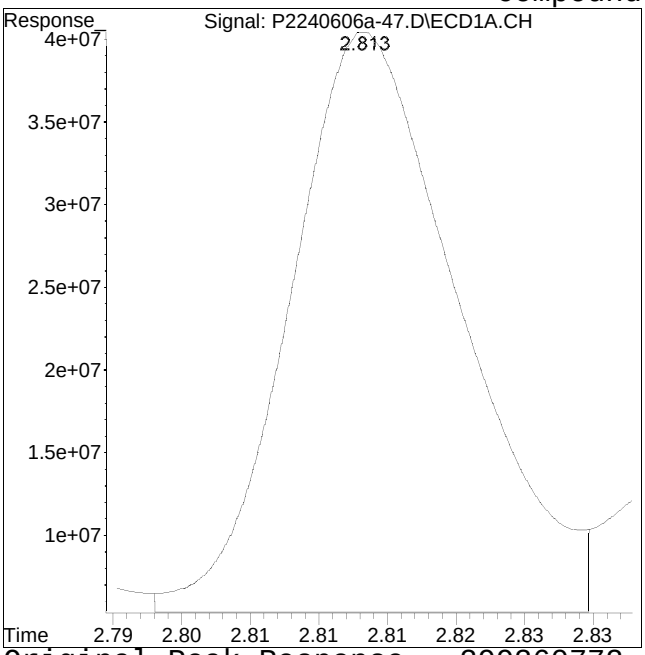


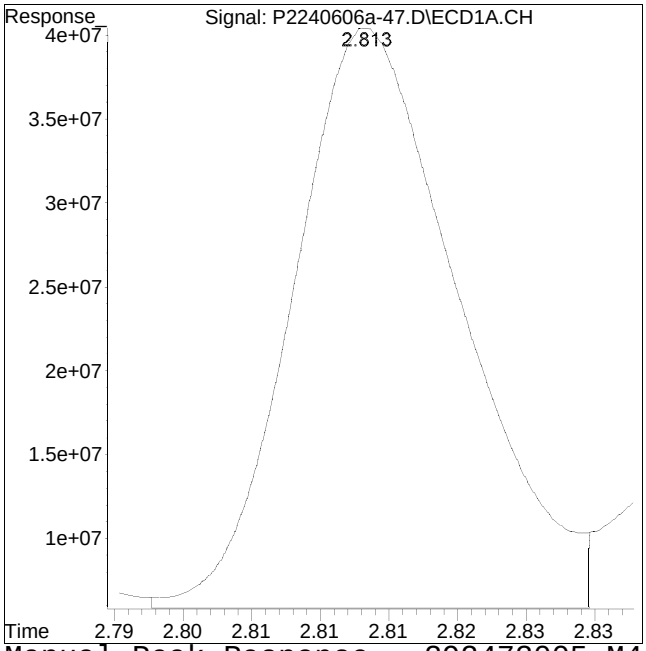
Original Peak Response = 139057700 Manual Peak Response = 134406711 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-47.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:15 Instrument : Pest 2
Sample : WG1930604-2,42,, Quant Date : 6/7/2024 5:12 am

Compound #10: 1260-2



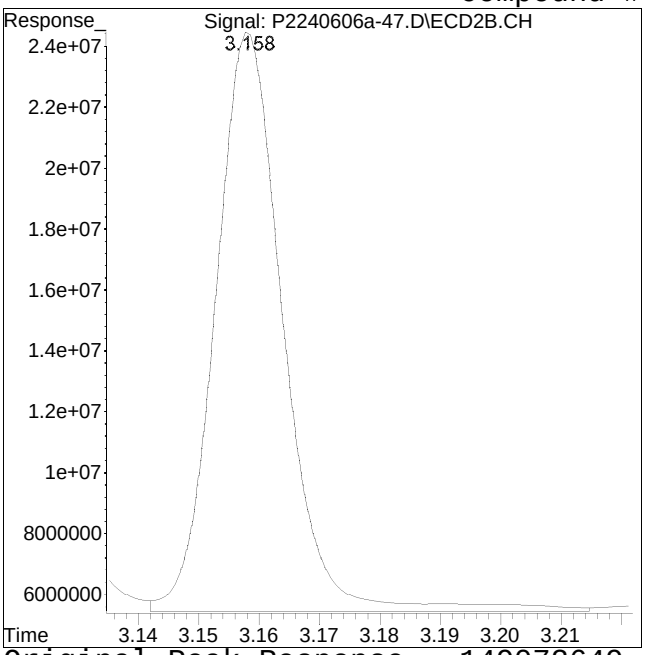


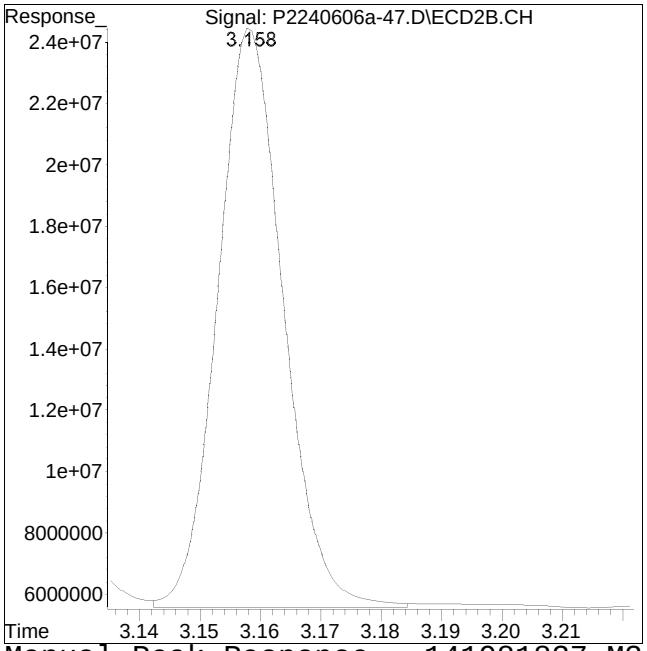
Original Peak Response = 299360772 Manual Peak Response = 292473005 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-47.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:15 Instrument : Pest 2
Sample : WG1930604-2,42,, Quant Date : 6/7/2024 5:12 am

Compound #61: 1260-2 #2



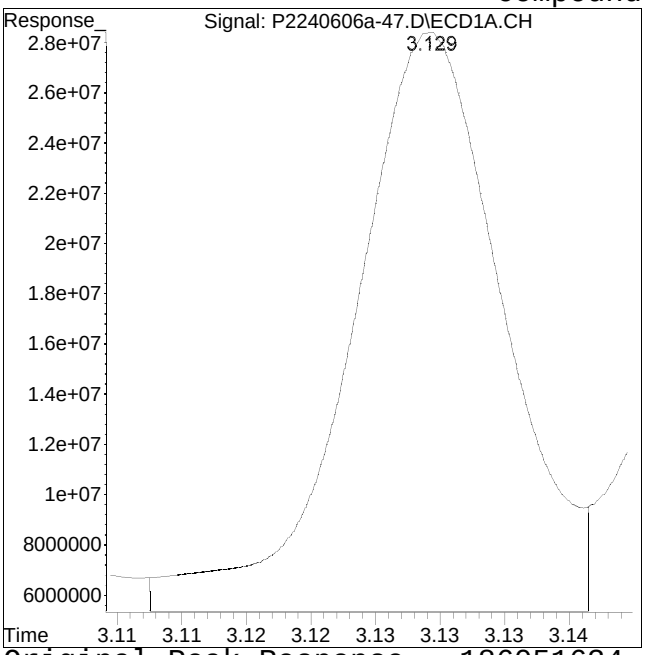


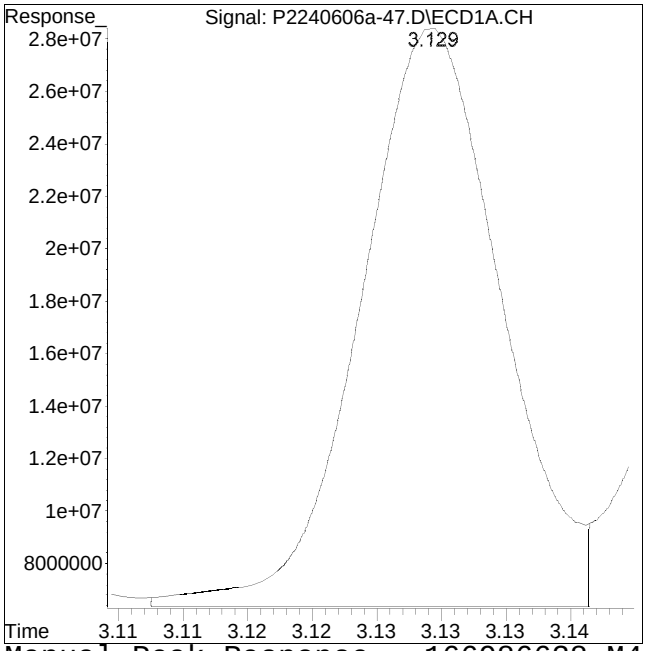
Original Peak Response = 149072649 Manual Peak Response = 141981837 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-47.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:15 Instrument : Pest 2
Sample : WG1930604-2,42,, Quant Date : 6/7/2024 5:12 am

Compound #11: 1260-3



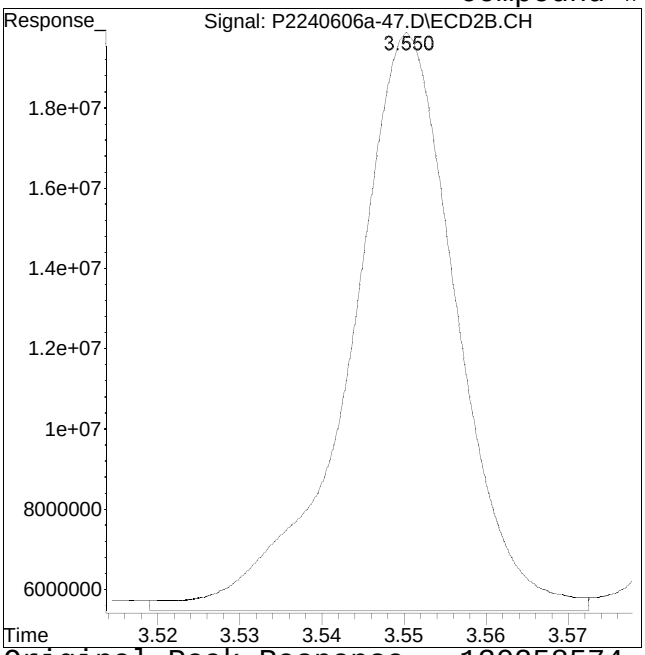


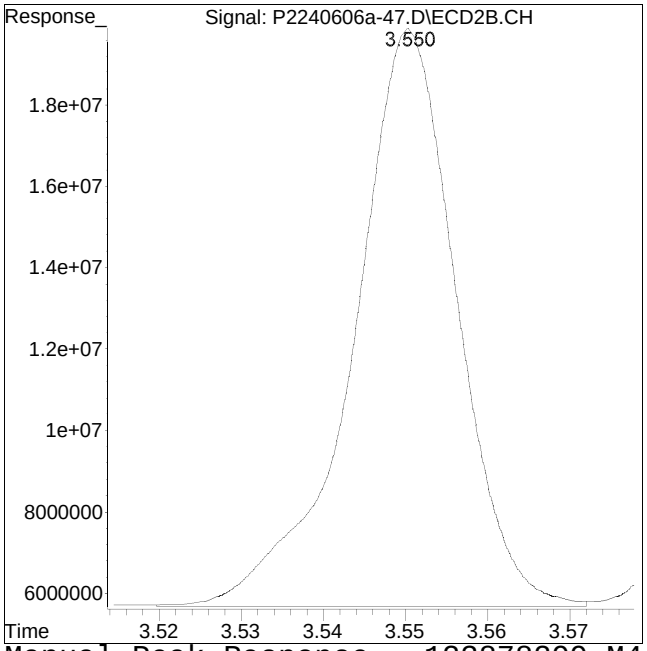
Original Peak Response = 186051634 Manual Peak Response = 166986638 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-47.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:15 Instrument : Pest 2
Sample : WG1930604-2,42,, Quant Date : 6/7/2024 5:12 am

Compound #62: 1260-3 #2



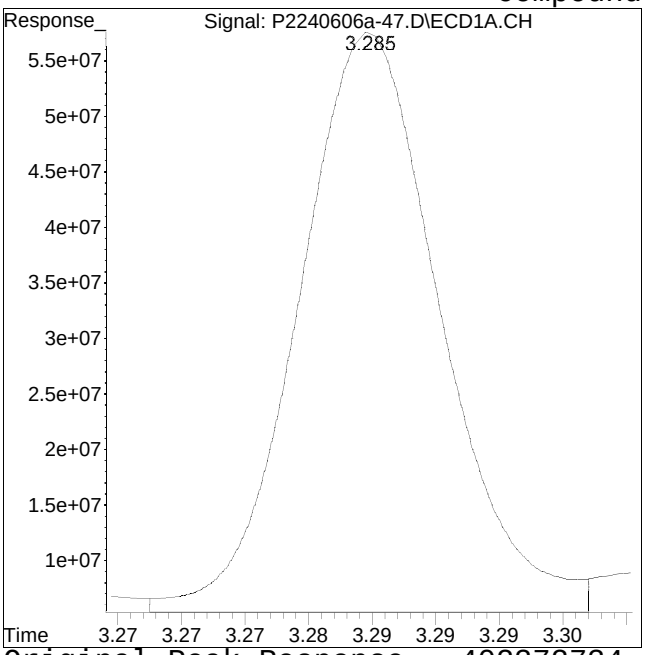


Original Peak Response = 130258574 Manual Peak Response = 123878299 M4
M4 = Poor automated baseline construction.

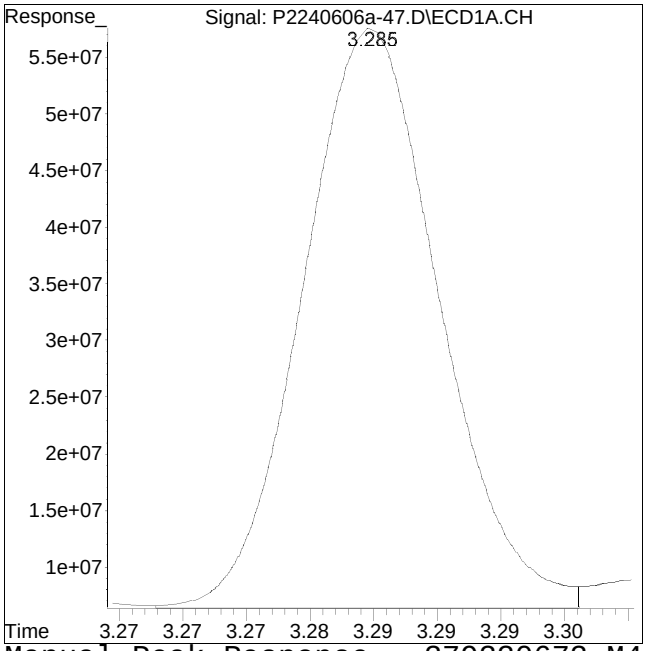
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-47.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:15 Instrument : Pest 2
Sample : WG1930604-2,42,, Quant Date : 6/7/2024 5:12 am

Compound #12: 1260-4



Original Peak Response = 402372734



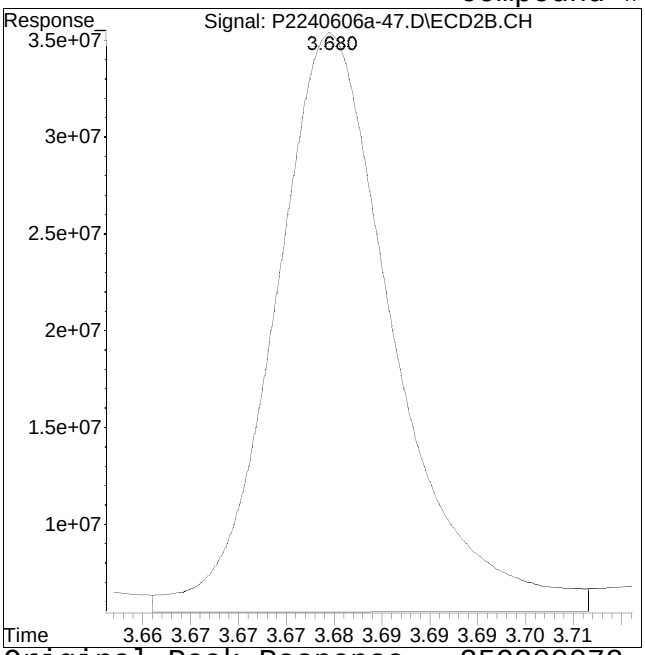
Manual Peak Response = 379330673 M4

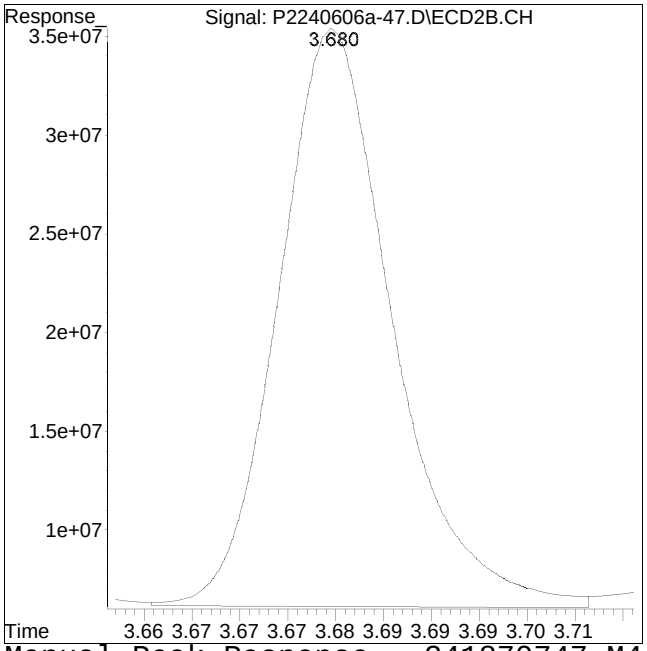
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-47.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:15 Instrument : Pest 2
Sample : WG1930604-2,42,, Quant Date : 6/7/2024 5:12 am

Compound #63: 1260-4 #2



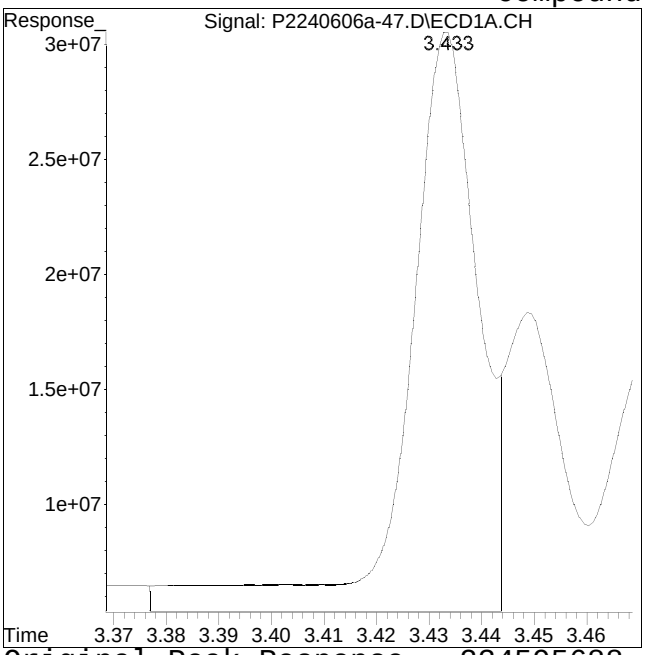


Original Peak Response = 259309972 Manual Peak Response = 241870747 M4
M4 = Poor automated baseline construction.

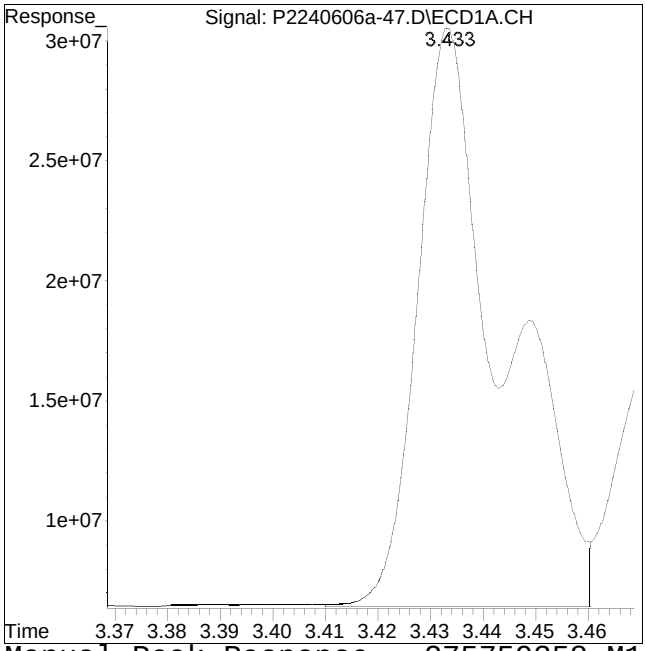
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-47.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:15 Instrument : Pest 2
Sample : WG1930604-2,42,, Quant Date : 6/7/2024 5:12 am

Compound #13: 1260-5



Original Peak Response = 234595688



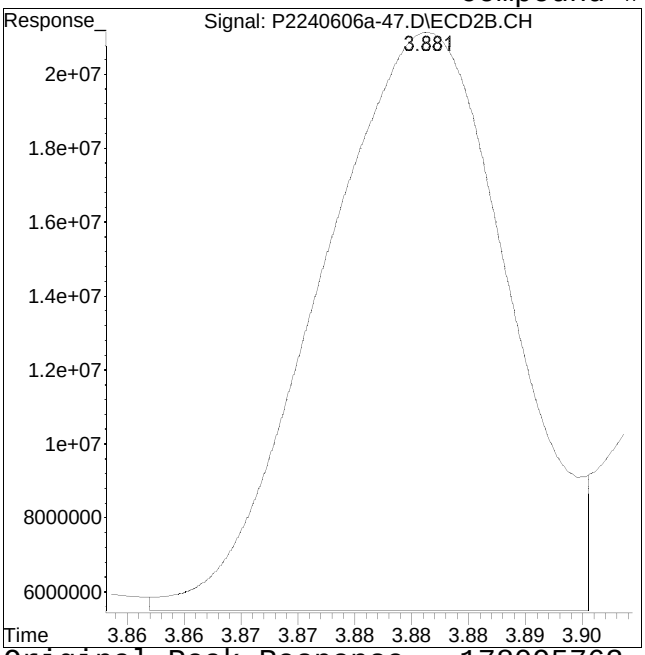
Manual Peak Response = 275759358 M1

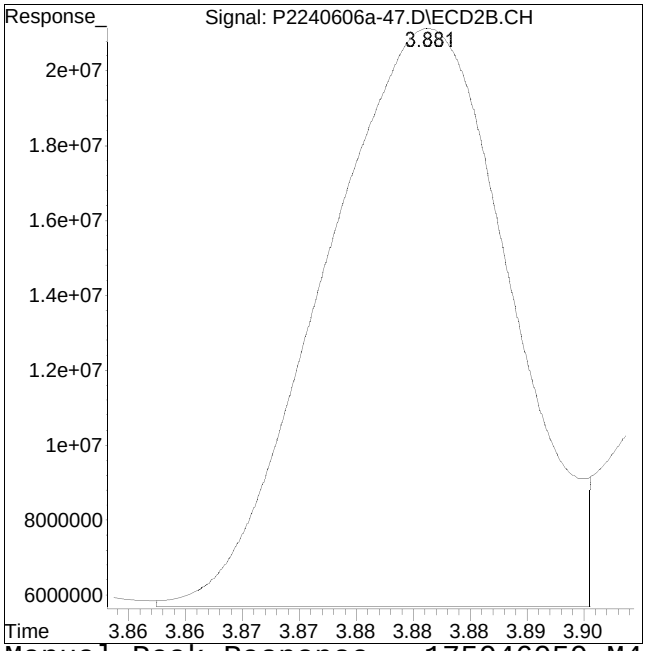
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-47.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:15 Instrument : Pest 2
Sample : WG1930604-2,42,, Quant Date : 6/7/2024 5:12 am

Compound #64: 1260-5 #2





Original Peak Response = 178095763 Manual Peak Response = 175046050 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240606A\
Data File : P2240606a-48.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 2:23
Operator : pest2:mhg
Sample : WG1930604-3,42,,
Misc : wg1930475,WG1930604,ical21102
ALS Vial : 48 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 05:12:08 2024
Quant Method : I:\PCB\Pest2\2024\240606A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240606A\P2240606a-29.D
Sub List : 1660 - 1660

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.159	1.229	429.7E6	262.7E6	25.000M4	25.000
	Standard Area 1 : #1 = 491953716				Recovery =	87.35%	
	Standard Area 1 : #2 = 316970043				Recovery =	82.88%	
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.443	1.603	303.8E6	179.6E6	13.485M3	13.878M4
	Spiked Amount 20.000	Range 30 - 150		Recovery =	67.42%	69.39%	
3) s	Decachlorobi	4.017	4.529	263.3E6	143.0E6	18.085	23.466
	Spiked Amount 20.000	Range 30 - 150		Recovery =	90.42%	117.33%	
Target Compounds							
4) l1	1016-1	1.582	1.804	68248037	51824796	176.934M4	234.399
5) l1	1016-2	1.723	1.975	169.0E6	108.2E6	199.903M1	222.755
6) l1	1016-3	1.912	2.176	324.3E6	207.3E6	186.551M4	213.446
7) l1	1016-4	1.967	2.236	136.5E6	80888333	196.951M3	225.142M3
8) l1	1016-5	2.138	2.447	136.5E6	70889894	177.578M3	232.790
	Sum 1016-1			834.5E6	519.1E6	937.917	1128.532
Average	1016-1					187.583	225.706
9) l2	1260-1	2.681	3.056	209.1E6	139.6E6	188.419	246.234
10) l2	1260-2	2.812	3.158	310.3E6	152.9E6	185.560	235.681
11) l2	1260-3	3.128	3.550	194.8E6	129.7E6	187.464	257.782
12) l2	1260-4	3.283	3.680	419.6E6	269.1E6	188.465	266.071
13) l2	1260-5	3.432	3.881	224.7E6	183.3E6	144.033	264.383
	Sum 1260-1			1358.5E6	874.8E6	893.940	1270.151
Average	1260-1					178.788	254.030
	Sum 1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
	Sum 1254-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240606A\
Data File : P2240606a-48.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 2:23
Operator : pest2:mhg
Sample : WG1930604-3,42,,
Misc : wg1930475,WG1930604,ical21102
ALS Vial : 48 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 05:12:08 2024
Quant Method : I:\PCB\Pest2\2024\240606A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240606A\P2240606a-29.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

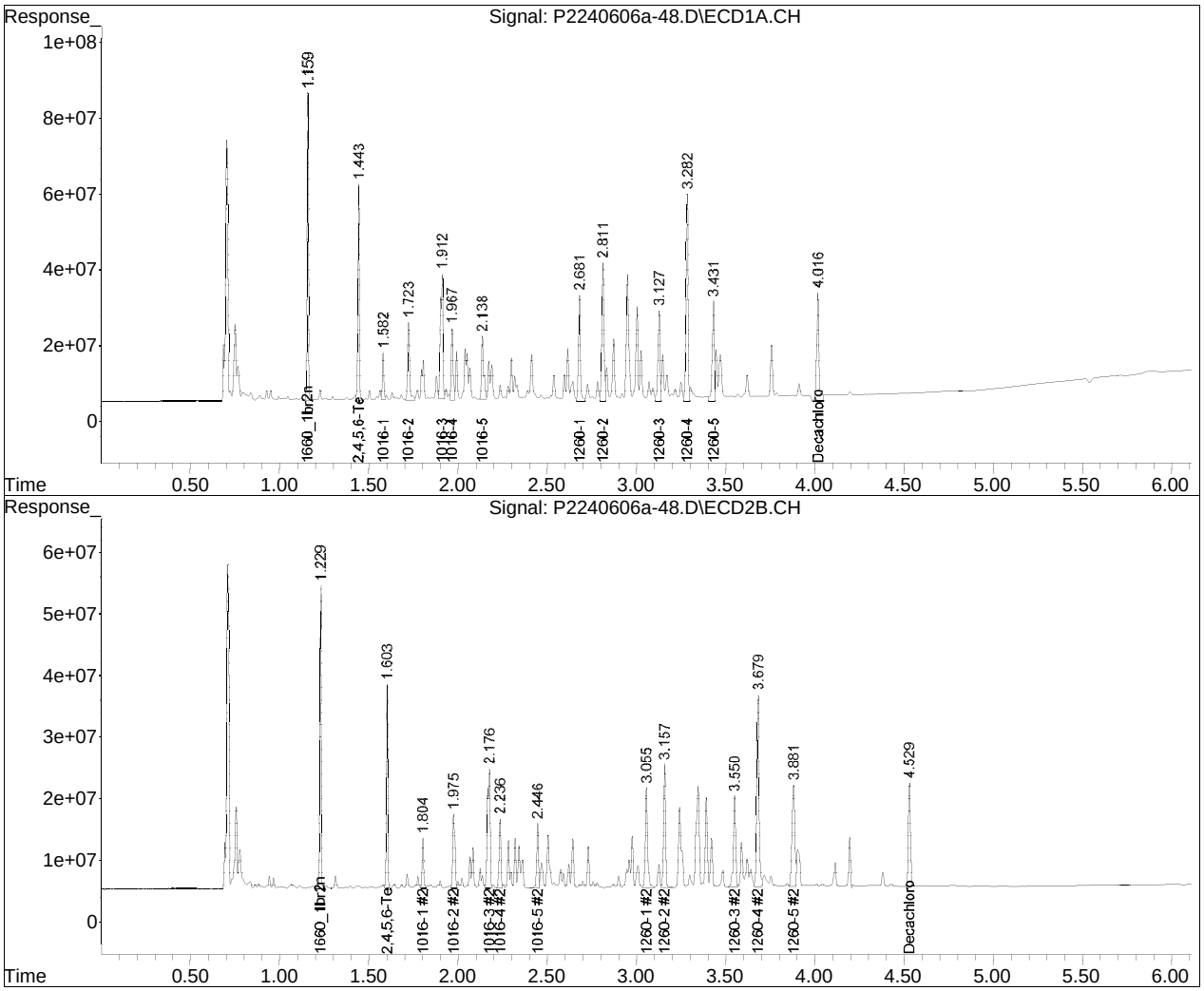
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.

Sub List : 1660 - 1660Pest2\2024\240606A\P2240606a-29.D•

Data Path : I:\PCB\Pest2\2024\240606A\
Data File : P2240606a-48.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 2:23
Operator : pest2:mhg
Sample : WG1930604-3,42,,
Misc : wg1930475,WG1930604,ical21102
ALS Vial : 48 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 05:12:08 2024
Quant Method : I:\PCB\Pest2\2024\240606A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

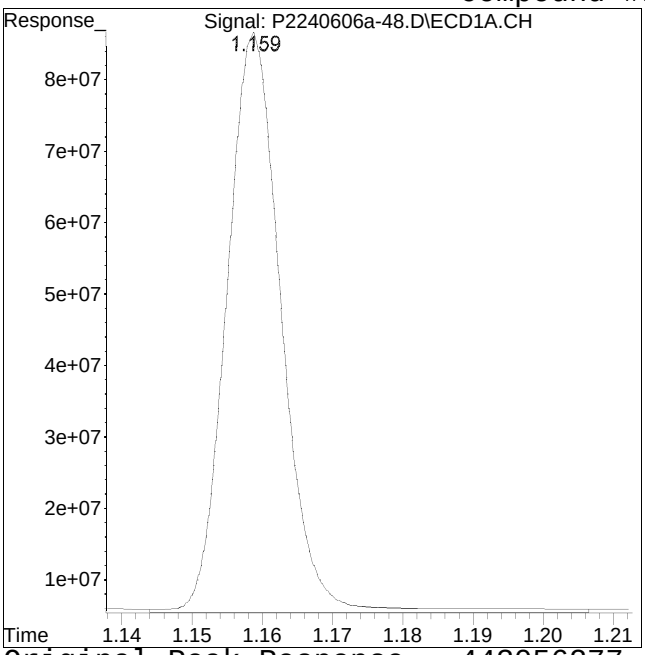
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

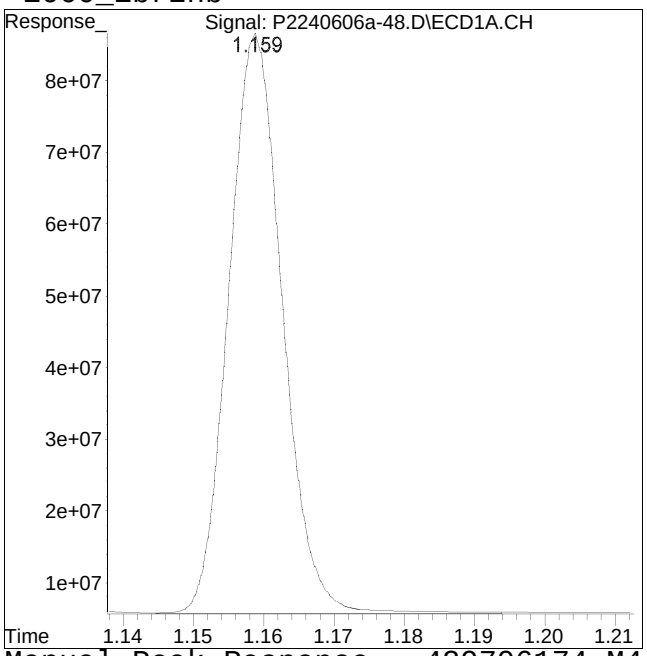


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-48.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:23 Instrument : Pest 2
Sample : WG1930604-3,42,, Quant Date : 6/7/2024 5:12 am

Compound #1: 1660_1br2nb



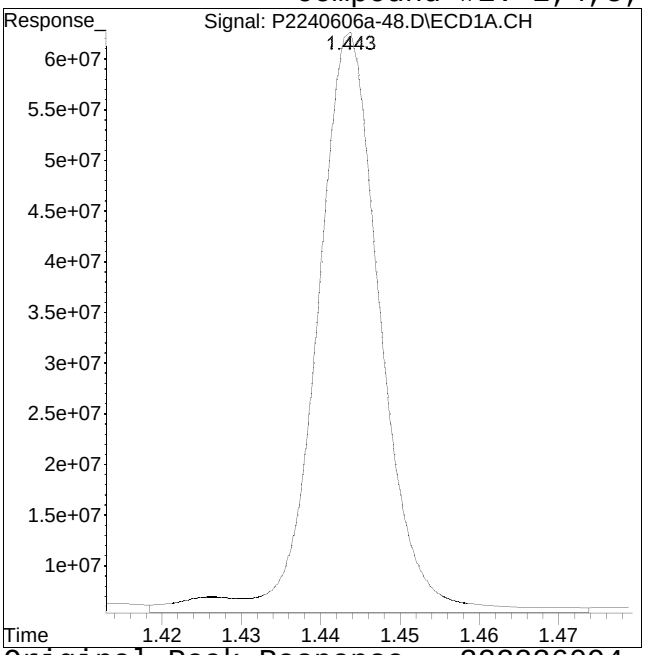


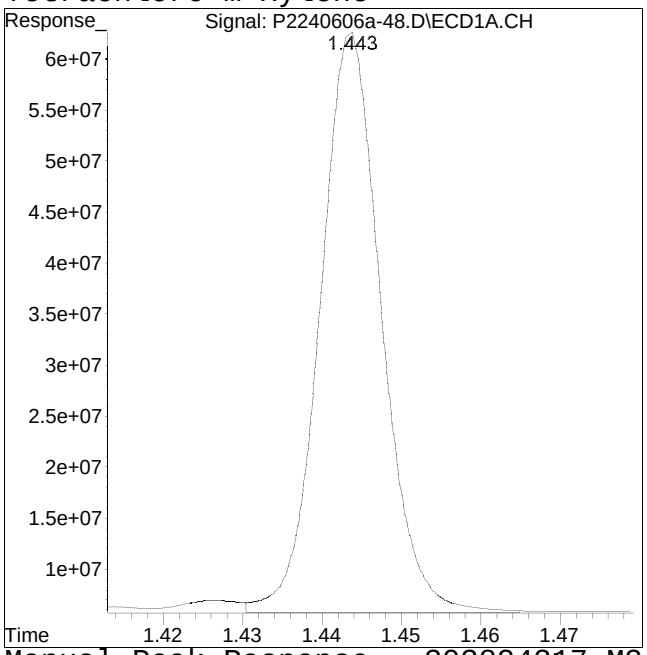
Original Peak Response = 443056277 Manual Peak Response = 429706174 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-48.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:23 Instrument : Pest 2
Sample : WG1930604-3,42,, Quant Date : 6/7/2024 5:12 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



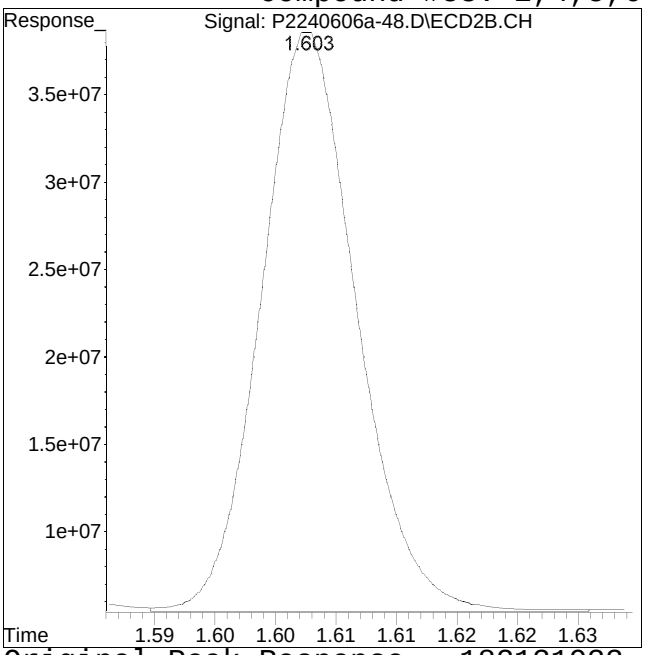


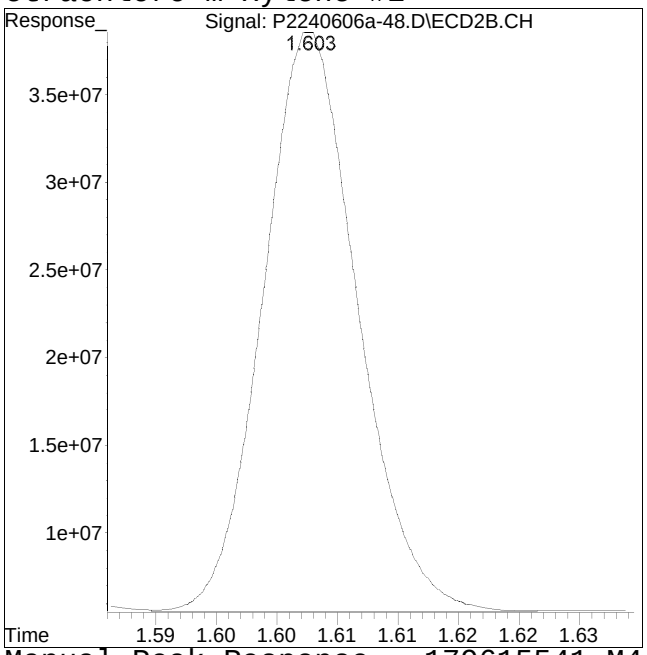
Original Peak Response = 322236094 Manual Peak Response = 303824317 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-48.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:23 Instrument : Pest 2
Sample : WG1930604-3,42,, Quant Date : 6/7/2024 5:12 am

Compound #53: 2,4,5,6-Tetrachloro-m-xylene #2



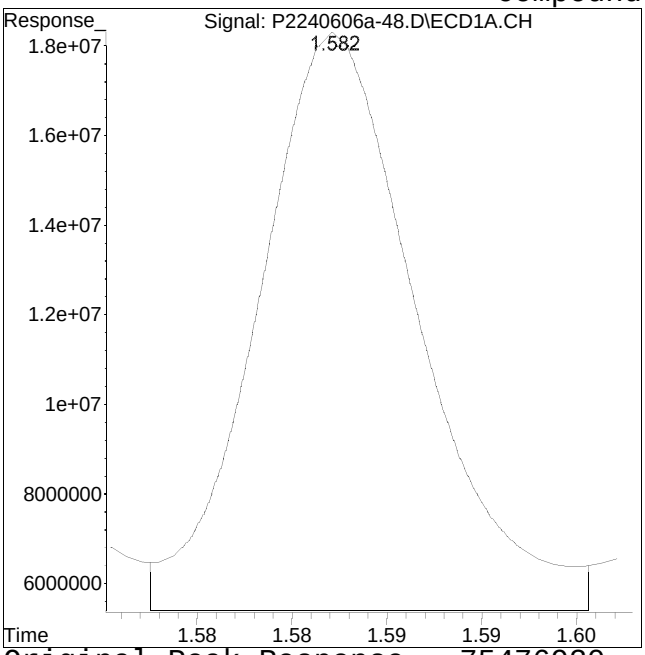


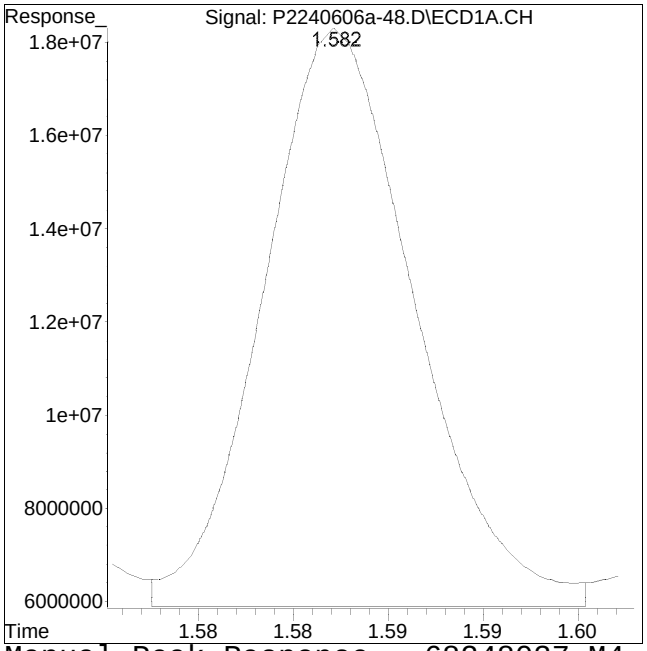
Original Peak Response = 182131933 Manual Peak Response = 179615541 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-48.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:23 Instrument : Pest 2
Sample : WG1930604-3,42,, Quant Date : 6/7/2024 5:12 am

Compound #4: 1016-1



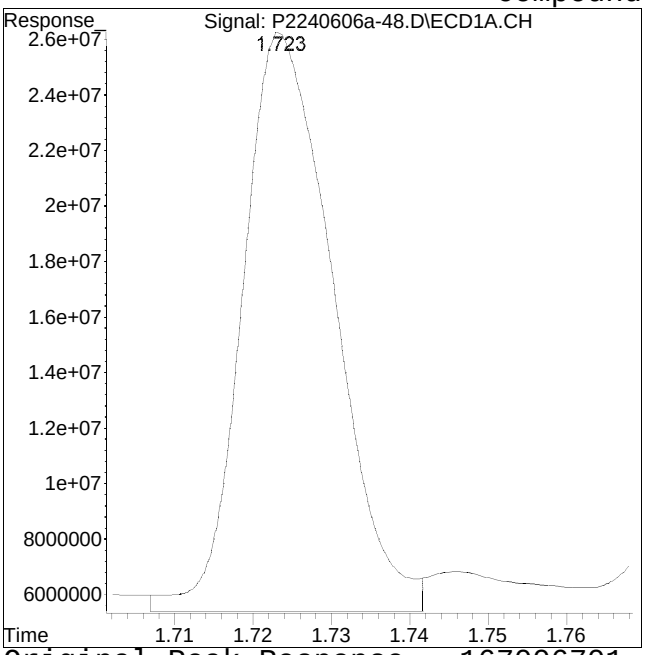


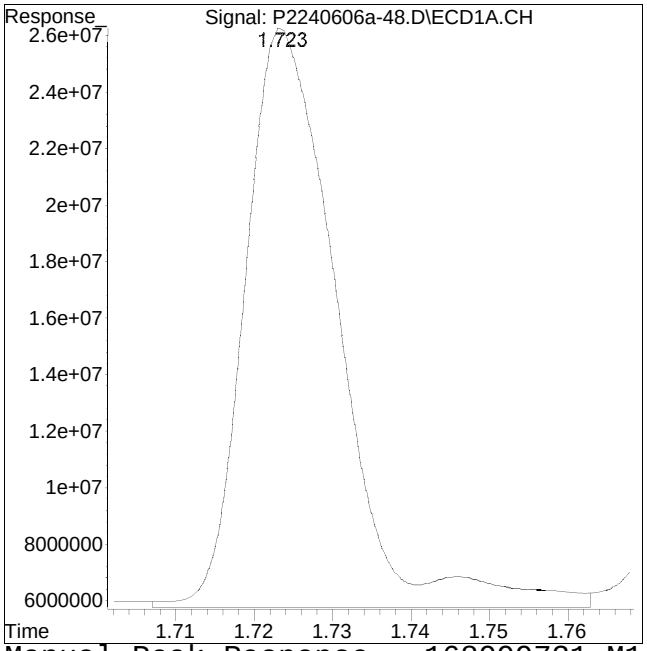
Original Peak Response = 75476930 Manual Peak Response = 68248037 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-48.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:23 Instrument : Pest 2
Sample : WG1930604-3,42,, Quant Date : 6/7/2024 5:12 am

Compound #5: 1016-2



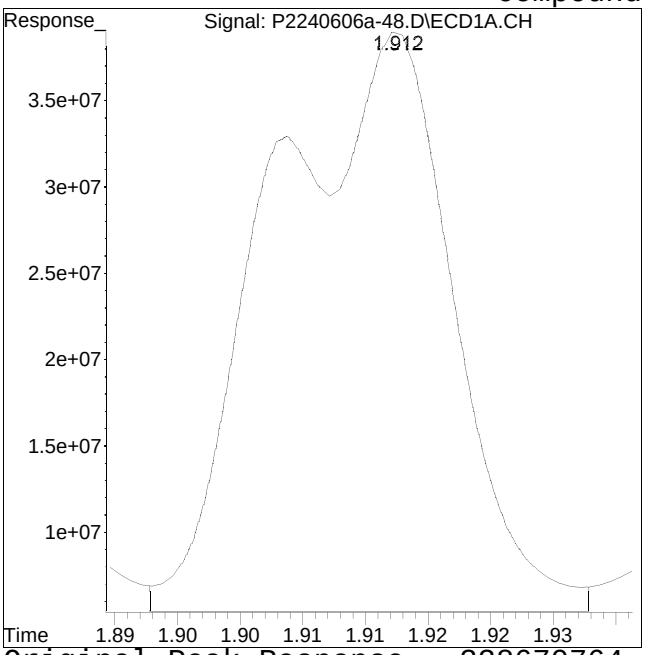


Original Peak Response = 167006701 Manual Peak Response = 168999731 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

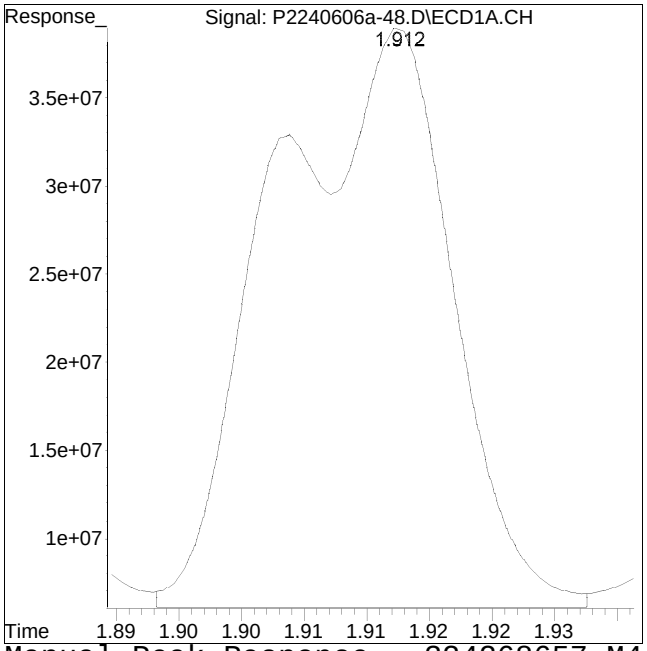
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-48.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:23 Instrument : Pest 2
Sample : WG1930604-3,42,, Quant Date : 6/7/2024 5:12 am

Compound #6: 1016-3



Original Peak Response = 338670764



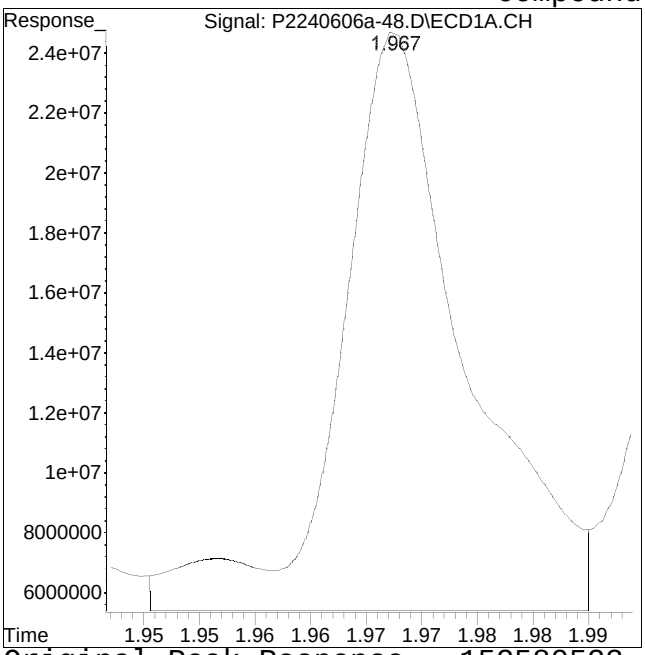
Manual Peak Response = 324268657 M4

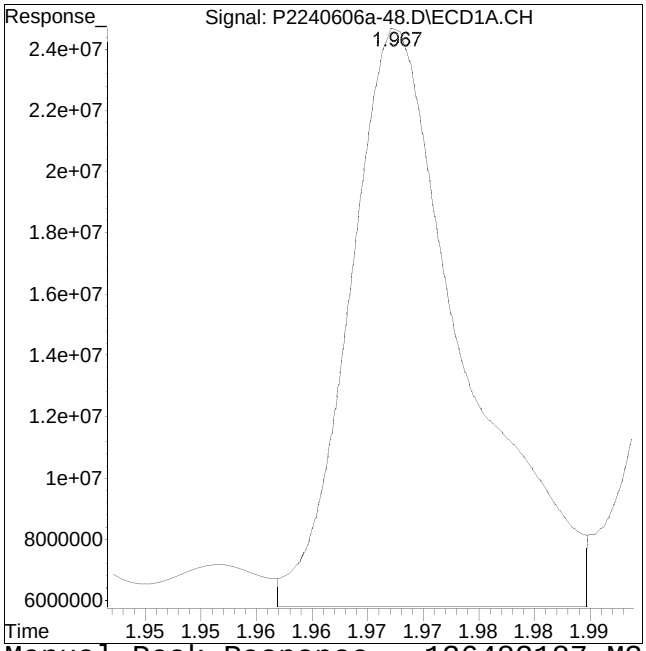
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-48.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:23 Instrument : Pest 2
Sample : WG1930604-3,42,, Quant Date : 6/7/2024 5:12 am

Compound #7: 1016-4



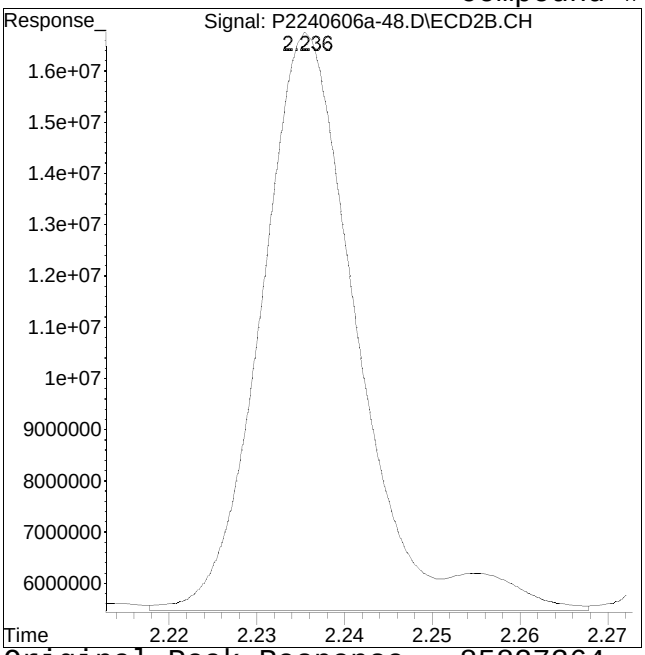


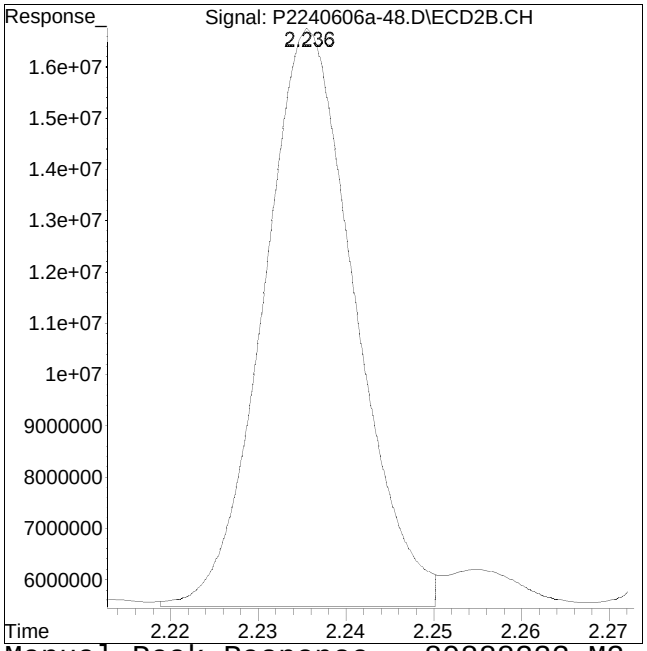
Original Peak Response = 152580523 Manual Peak Response = 136483187 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-48.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:23 Instrument : Pest 2
Sample : WG1930604-3,42,, Quant Date : 6/7/2024 5:12 am

Compound #58: 1016-4 #2



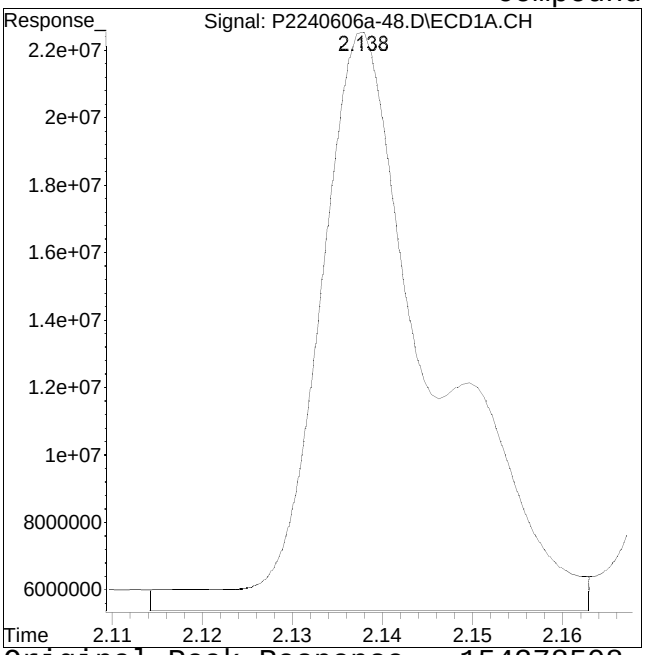


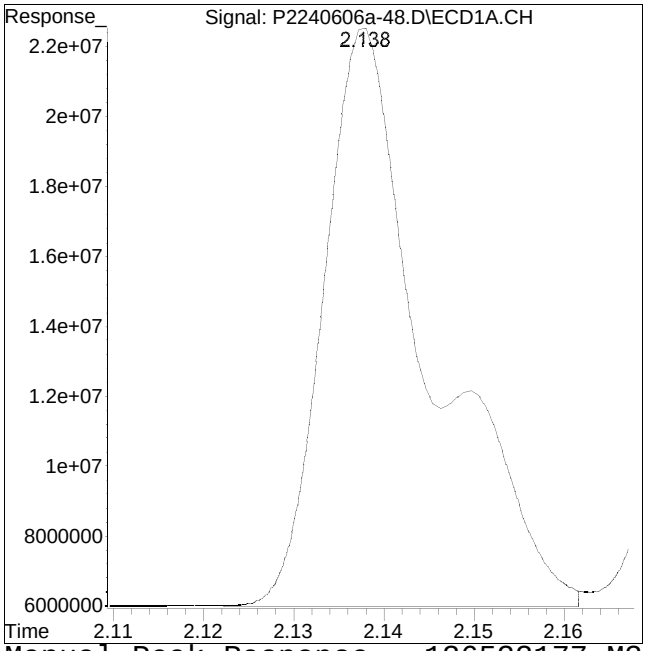
Original Peak Response = 85827364 Manual Peak Response = 80888333 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240606A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240606a-48.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 2:23 Instrument : Pest 2
Sample : WG1930604-3,42,, Quant Date : 6/7/2024 5:12 am

Compound #8: 1016-5





Original Peak Response = 154378508 Manual Peak Response = 136533177 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 9:09
Operator : pest2:mhg
Sample : WG1930604-6,42,, ms
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 09:35:47 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.158	1.227	395.7E6	234.2E6	25.000M3	25.000M3
Standard Area 1 : #1 = 477774528				Recovery =	82.82%	
Standard Area 1 : #2 = 323810098				Recovery =	72.32%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.443	1.601	396.4E6	208.6E6	19.107	18.082
Spiked Amount	20.000	Range 30 - 150		Recovery =	95.53%	90.41%
3) s Decachlorobi	4.015	4.528	287.0E6	147.4E6	21.406	27.126
Spiked Amount	20.000	Range 30 - 150		Recovery =	107.03%	135.63%
Target Compounds						
4) l1 1016-1	1.581	1.802	77630244	56575151	218.554M3	287.067
5) l1 1016-2	1.722	1.973	181.1E6	120.7E6	232.606M4	278.873
6) l1 1016-3	1.912	2.174	376.1E6	224.0E6	234.995M3	258.665M4
7) l1 1016-4	1.966	2.234	147.5E6	89293801	231.151M3	278.824M3
8) l1 1016-5	2.136	2.445	155.3E6	79101068	219.364M4	291.408
Sum 1016-1			937.7E6	569.7E6	1136.668	1394.837
Average 1016-1					227.334	278.967
9) l2 1260-1	2.680	3.054	227.9E6	159.5E6	223.090M4	315.617M4
10) l2 1260-2	2.810	3.156	348.4E6	172.2E6	226.245M3	297.784M4
11) l2 1260-3	3.126	3.548	201.4E6	145.3E6	210.519M4	323.911M4
12) l2 1260-4	3.282	3.677	467.5E6	277.7E6	228.025M4	308.023M4
13) l2 1260-5	3.430	3.879	337.5E6	203.3E6	234.899M4	328.894M4
Sum 1260-1			1582.8E6	958.1E6	1122.779	1574.229
Average 1260-1					224.556	314.846
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 9:09
Operator : pest2:mhg
Sample : WG1930604-6,42,, ms
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 09:35:47 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

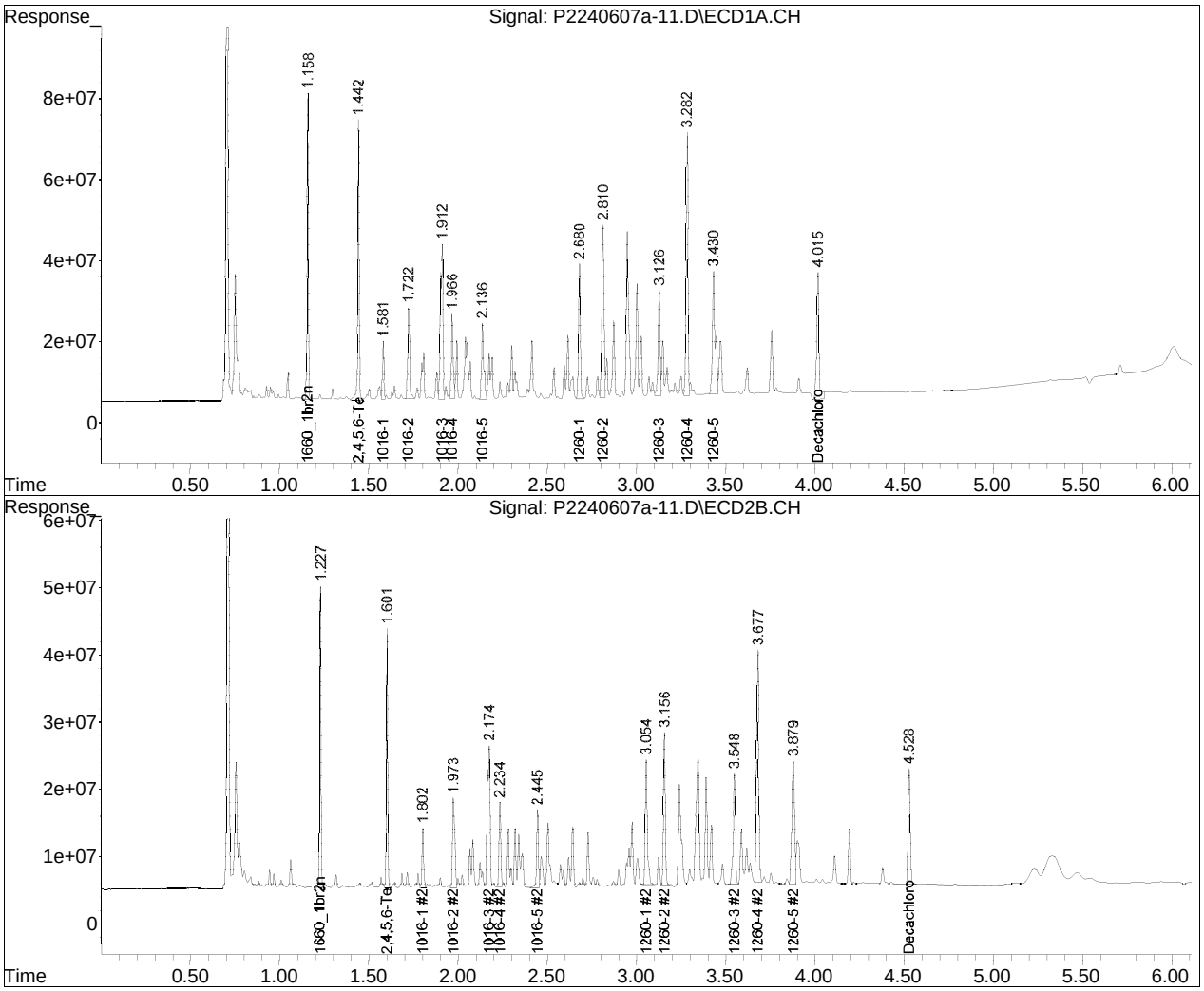
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2024\240607A\P2240607a-02.D•

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 9:09
Operator : pest2:mhg
Sample : WG1930604-6,42,, ms
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 09:35:47 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

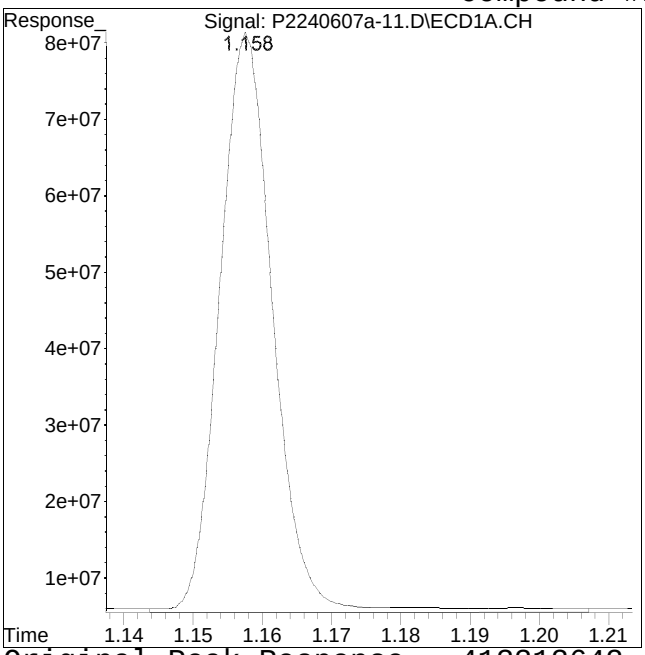
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

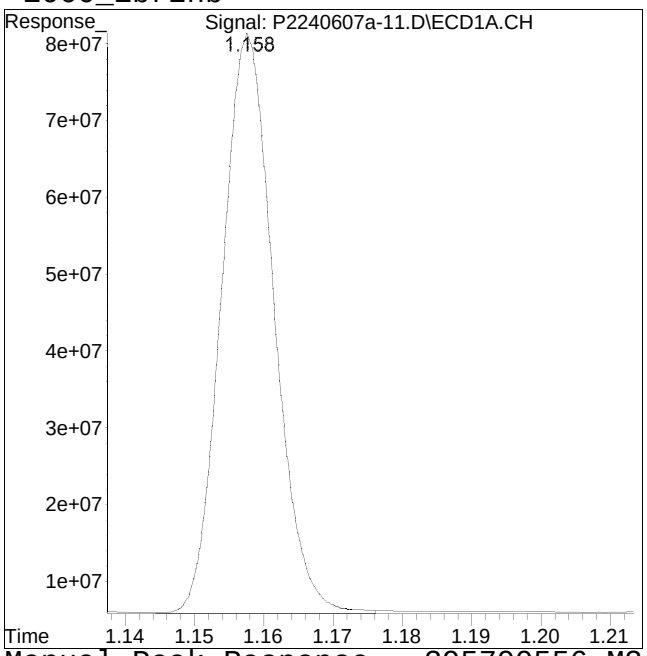


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-11.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:09 Instrument : Pest 2
Sample : WG1930604-6,42,, ms Quant Date : 6/7/2024 9:35 am

Compound #1: 1660_1br2nb



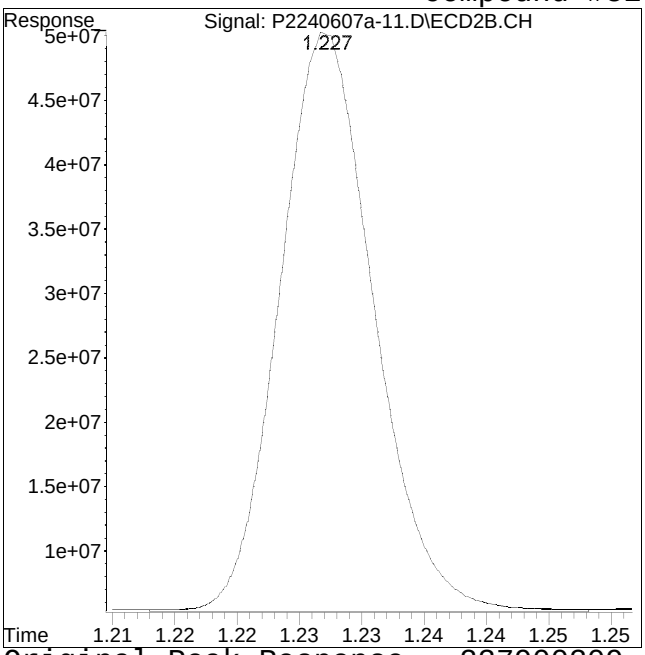


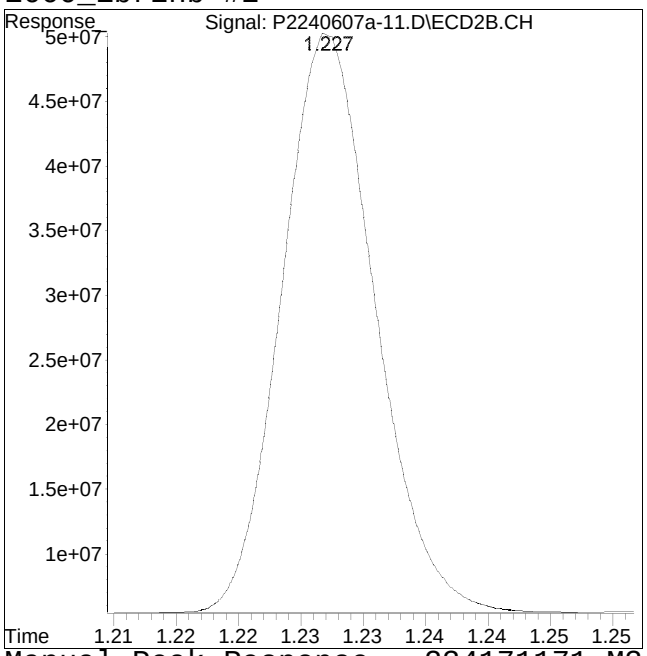
Original Peak Response = 413312642 Manual Peak Response = 395700556 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-11.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:09 Instrument : Pest 2
Sample : WG1930604-6,42,, ms Quant Date : 6/7/2024 9:35 am

Compound #52: 1660_1br2nb #2



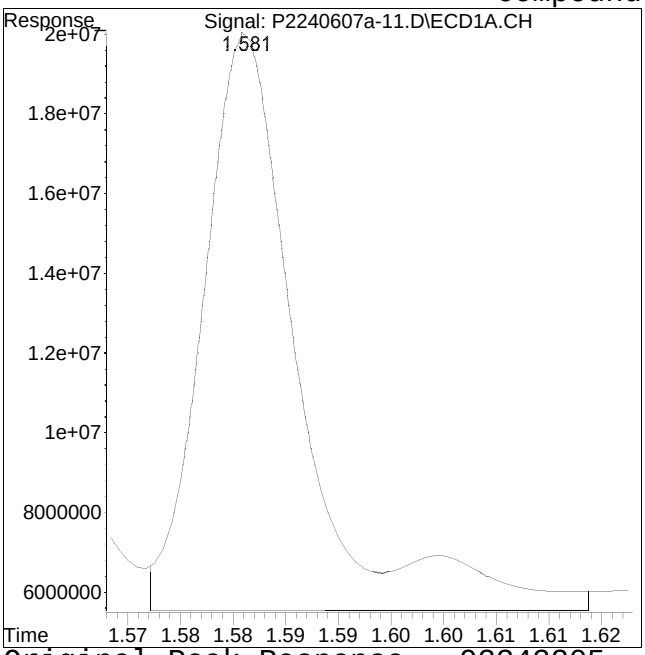


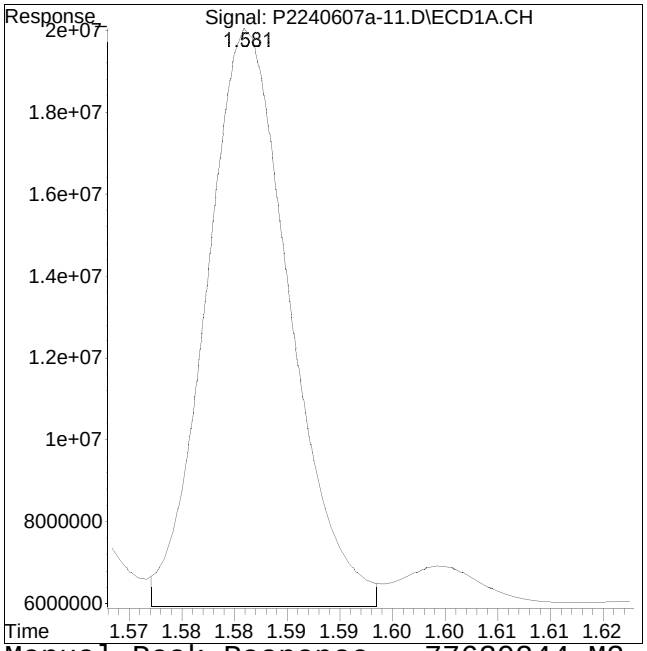
Original Peak Response = 237900309 Manual Peak Response = 234171171 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-11.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:09 Instrument : Pest 2
Sample : WG1930604-6,42,, ms Quant Date : 6/7/2024 9:35 am

Compound #4: 1016-1



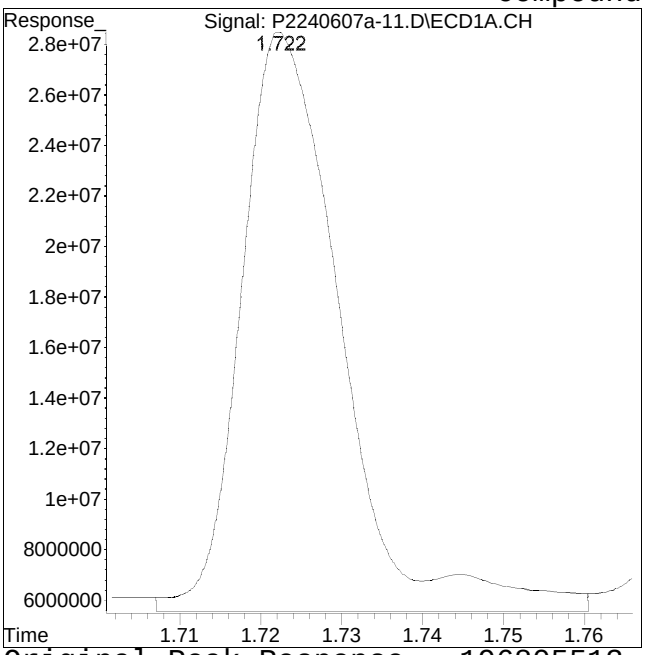


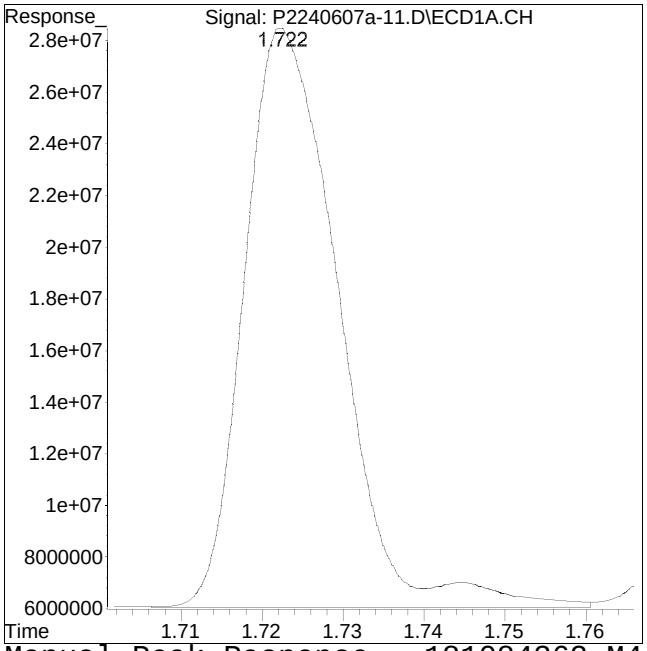
Original Peak Response = 93343205 Manual Peak Response = 77630244 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-11.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:09 Instrument : Pest 2
Sample : WG1930604-6,42,, ms Quant Date : 6/7/2024 9:35 am

Compound #5: 1016-2



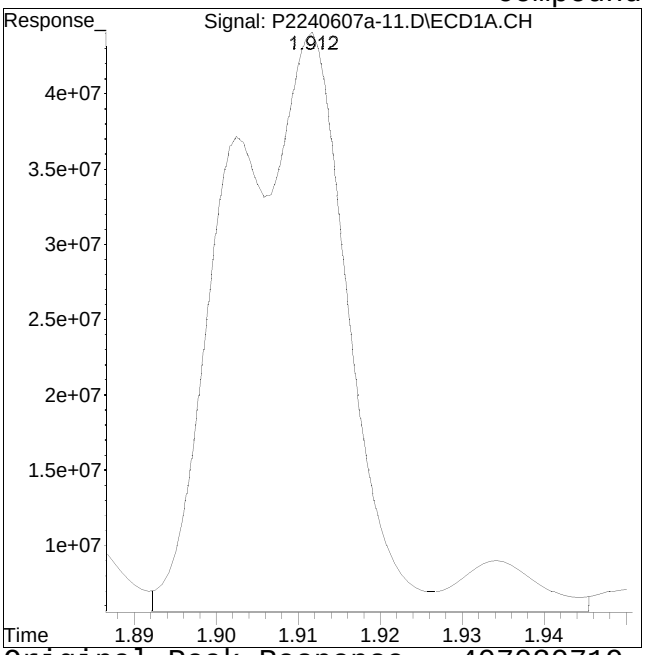


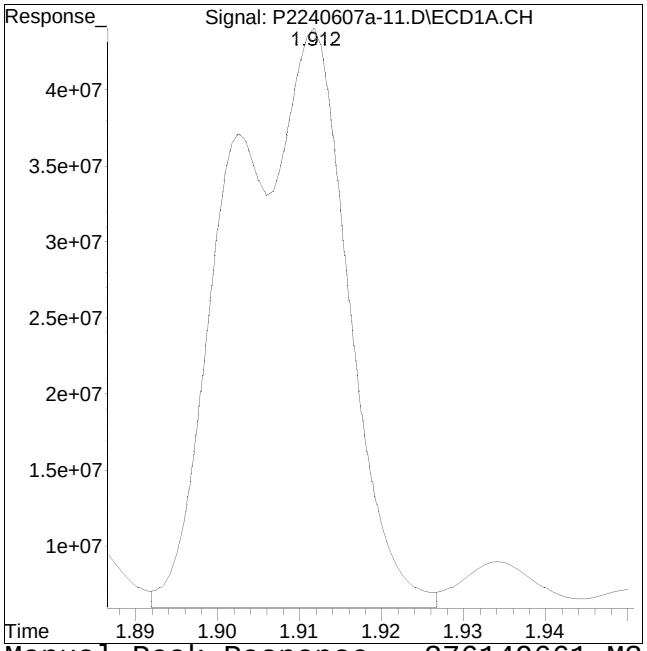
Original Peak Response = 196805513 Manual Peak Response = 181084362 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-11.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:09 Instrument : Pest 2
Sample : WG1930604-6,42,, ms Quant Date : 6/7/2024 9:35 am

Compound #6: 1016-3



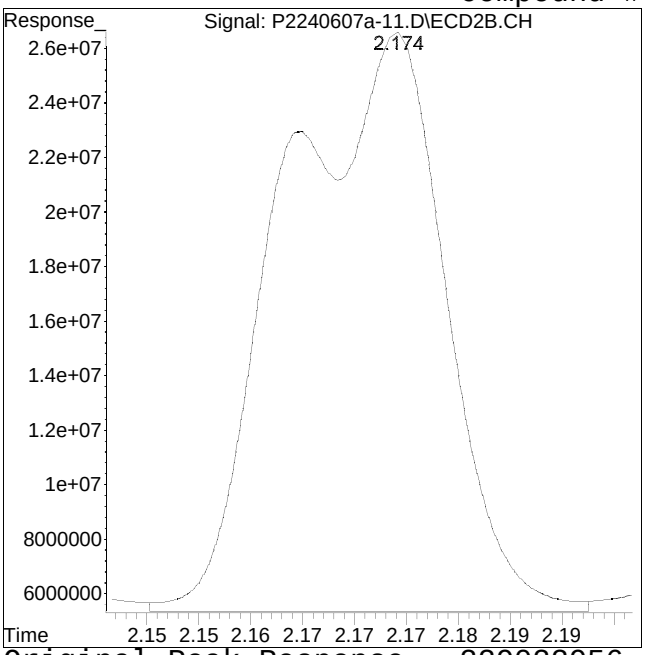


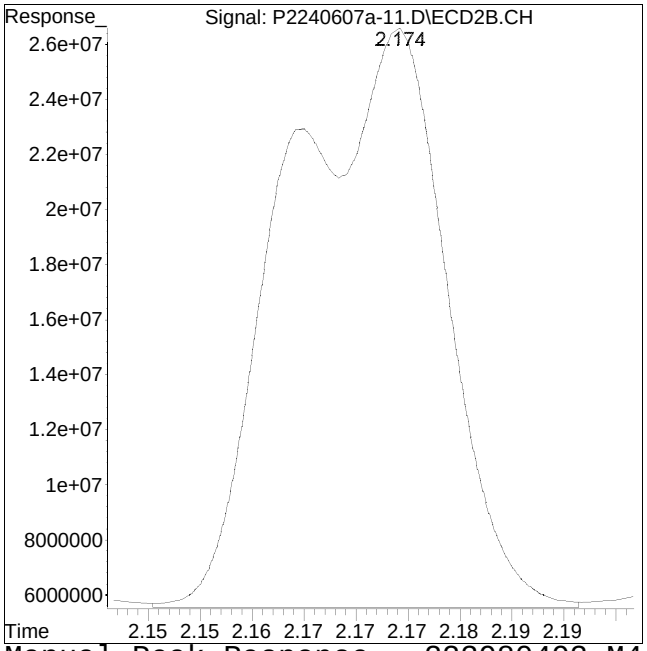
Original Peak Response = 407030719 Manual Peak Response = 376149661 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-11.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:09 Instrument : Pest 2
Sample : WG1930604-6,42,, ms Quant Date : 6/7/2024 9:35 am

Compound #57: 1016-3 #2



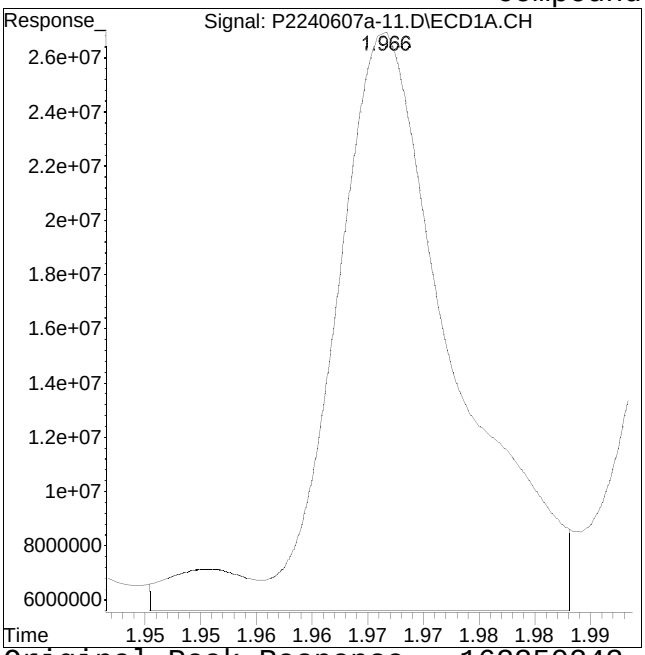


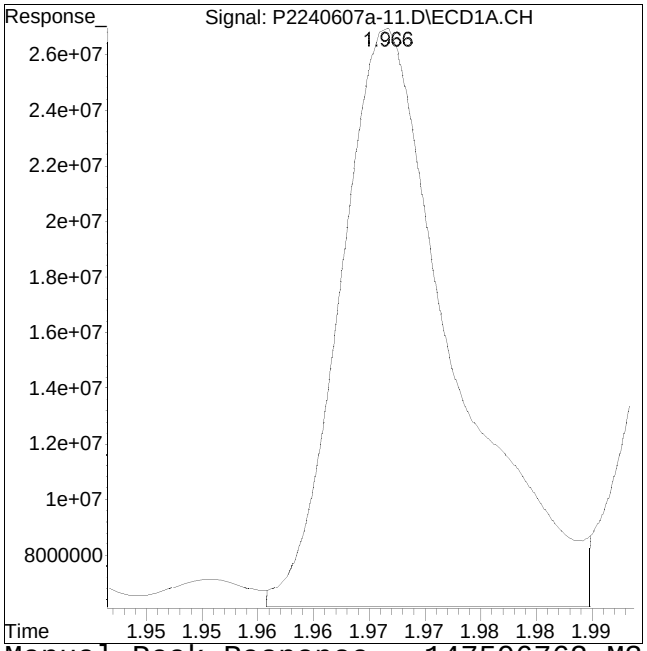
Original Peak Response = 229022956 Manual Peak Response = 223980493 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-11.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:09 Instrument : Pest 2
Sample : WG1930604-6,42,, ms Quant Date : 6/7/2024 9:35 am

Compound #7: 1016-4



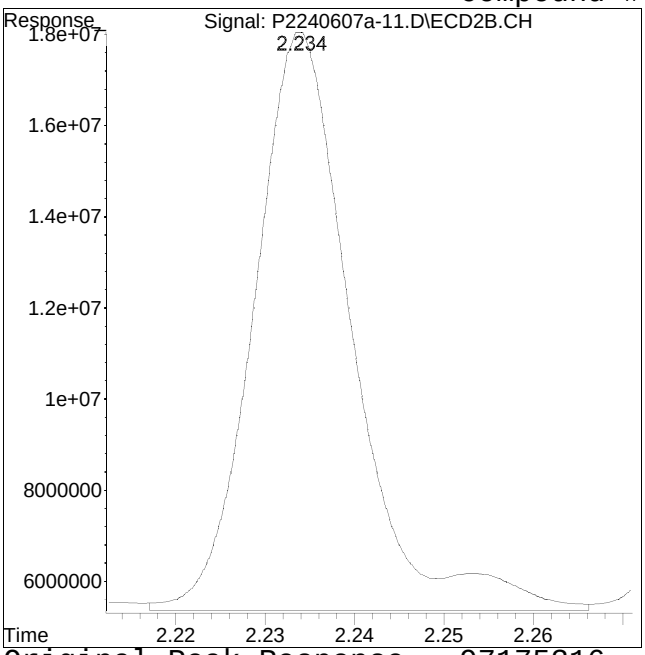


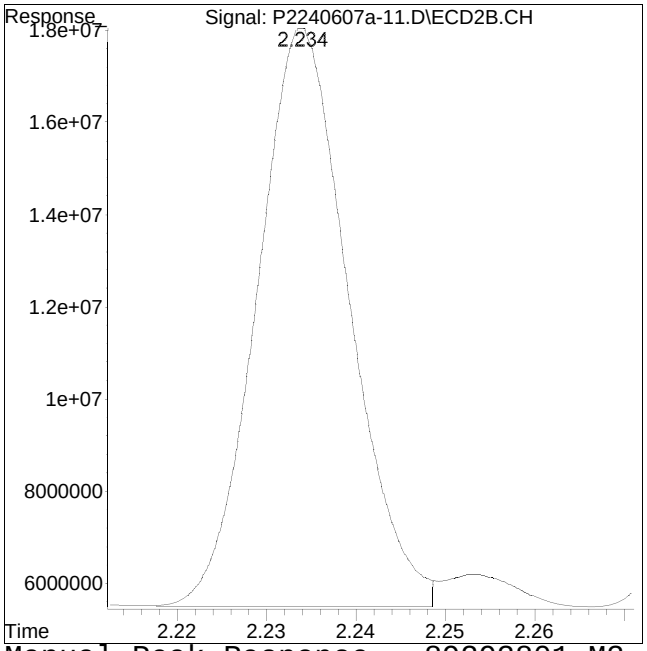
Original Peak Response = 162350243 Manual Peak Response = 147506762 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-11.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:09 Instrument : Pest 2
Sample : WG1930604-6,42,, ms Quant Date : 6/7/2024 9:35 am

Compound #58: 1016-4 #2



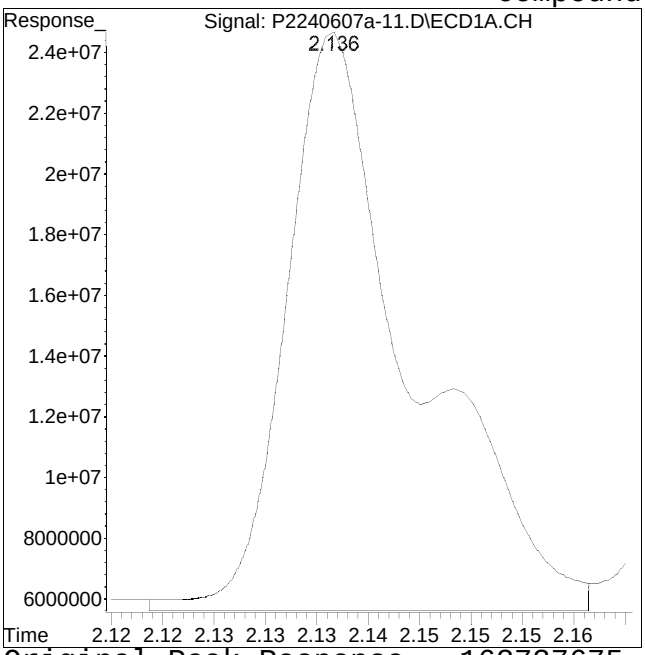


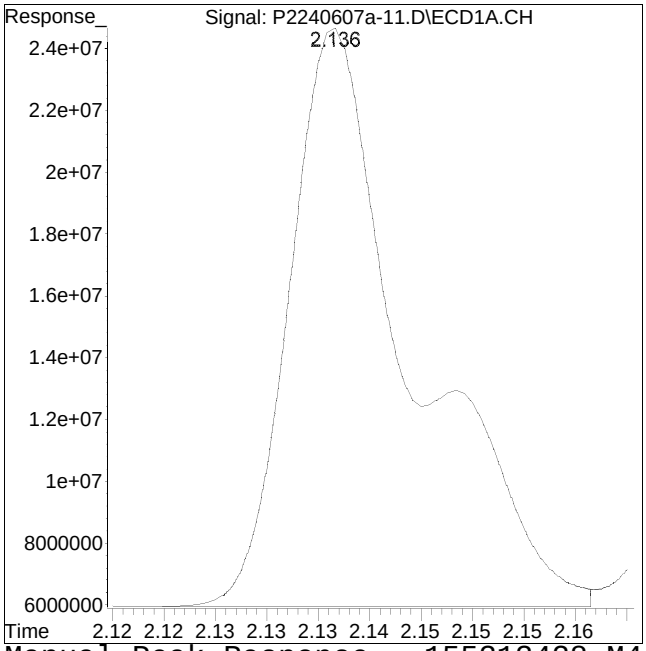
Original Peak Response = 97175316 Manual Peak Response = 89293801 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-11.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:09 Instrument : Pest 2
Sample : WG1930604-6,42,, ms Quant Date : 6/7/2024 9:35 am

Compound #8: 1016-5



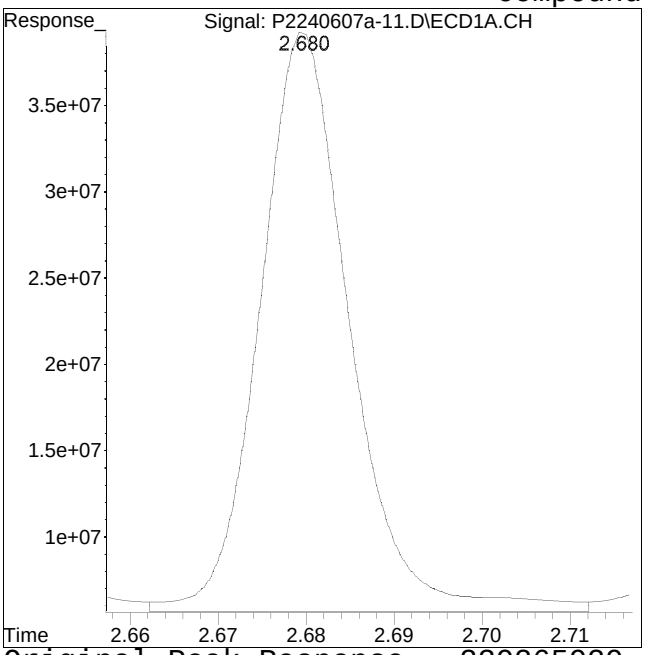


Original Peak Response = 163737675 Manual Peak Response = 155313428 M4
M4 = Poor automated baseline construction.

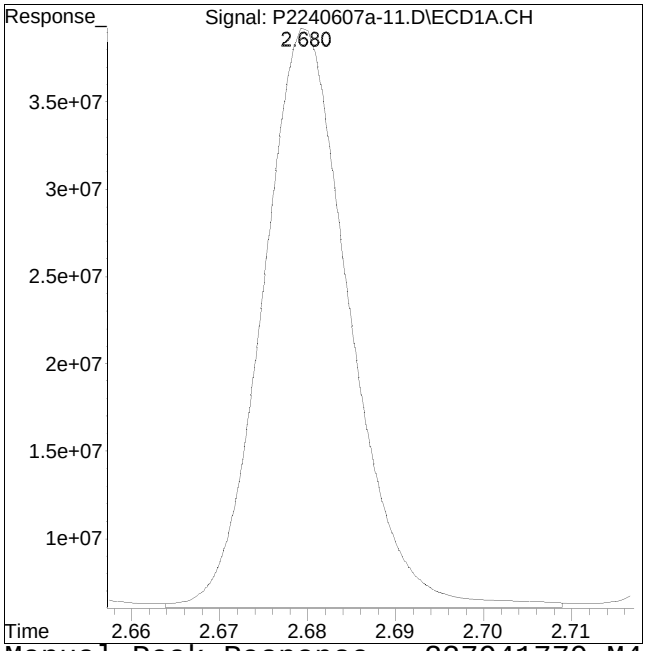
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-11.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:09 Instrument : Pest 2
Sample : WG1930604-6,42,, ms Quant Date : 6/7/2024 9:35 am

Compound #9: 1260-1



Original Peak Response = 239265929



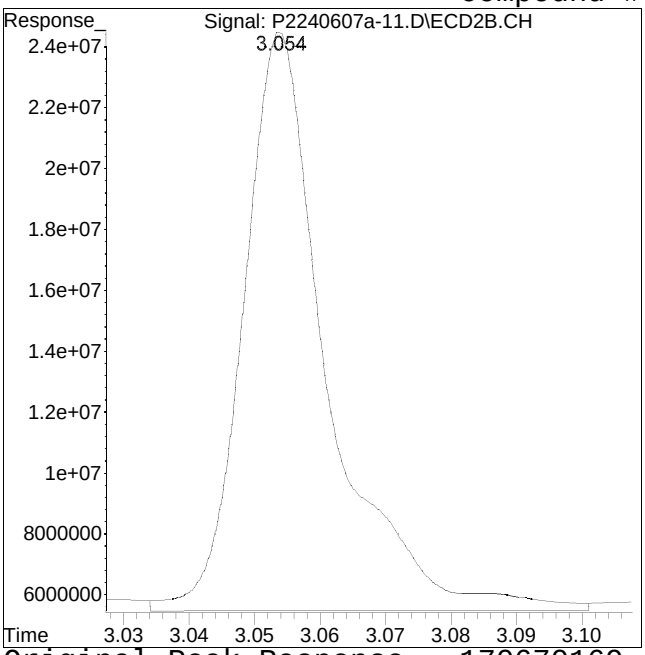
Manual Peak Response = 227941770 M4

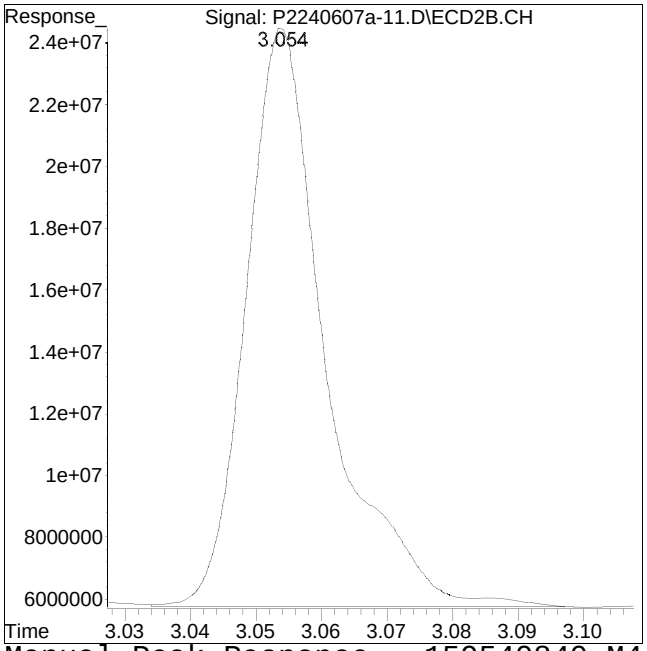
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-11.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:09 Instrument : Pest 2
Sample : WG1930604-6,42,, ms Quant Date : 6/7/2024 9:35 am

Compound #60: 1260-1 #2



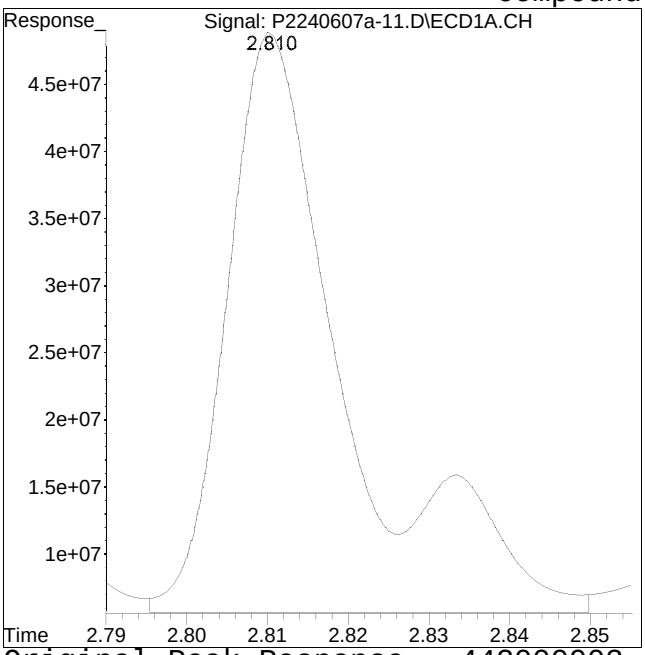


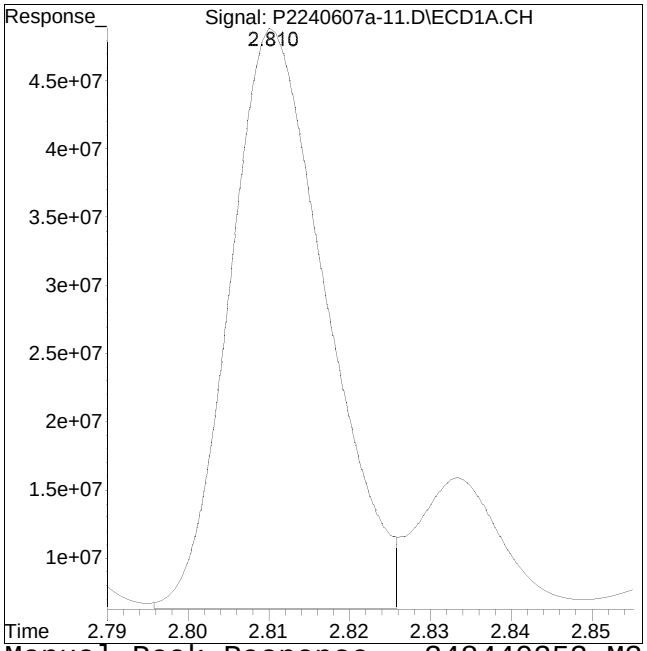
Original Peak Response = 170670169 Manual Peak Response = 159540840 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-11.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:09 Instrument : Pest 2
Sample : WG1930604-6,42,, ms Quant Date : 6/7/2024 9:35 am

Compound #10: 1260-2



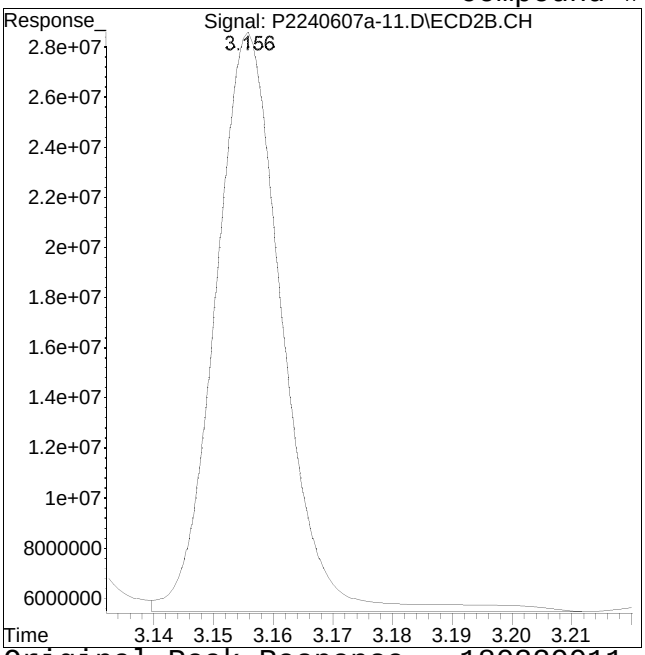


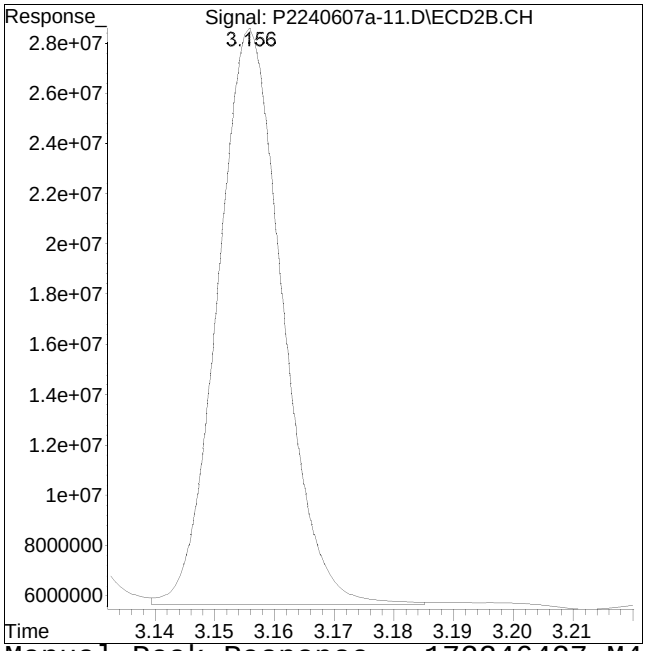
Original Peak Response = 442000903 Manual Peak Response = 348440353 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-11.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:09 Instrument : Pest 2
Sample : WG1930604-6,42,, ms Quant Date : 6/7/2024 9:35 am

Compound #61: 1260-2 #2



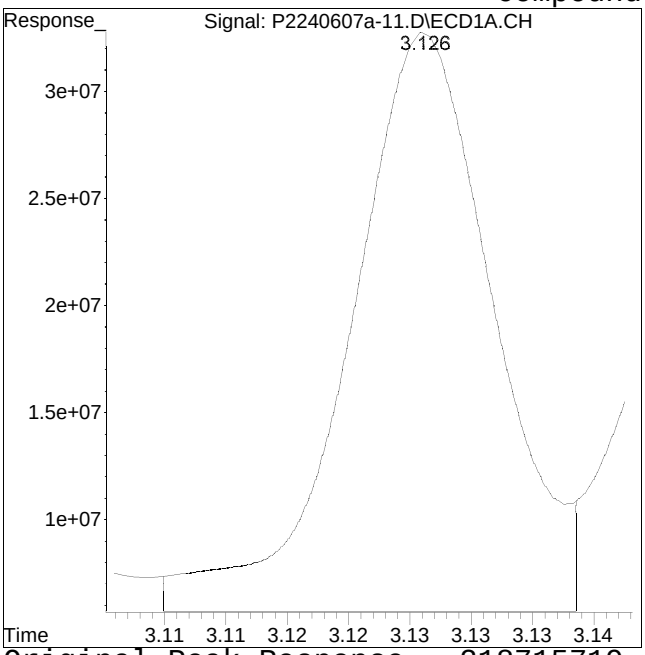


Original Peak Response = 180329911 Manual Peak Response = 172246427 M4
M4 = Poor automated baseline construction.

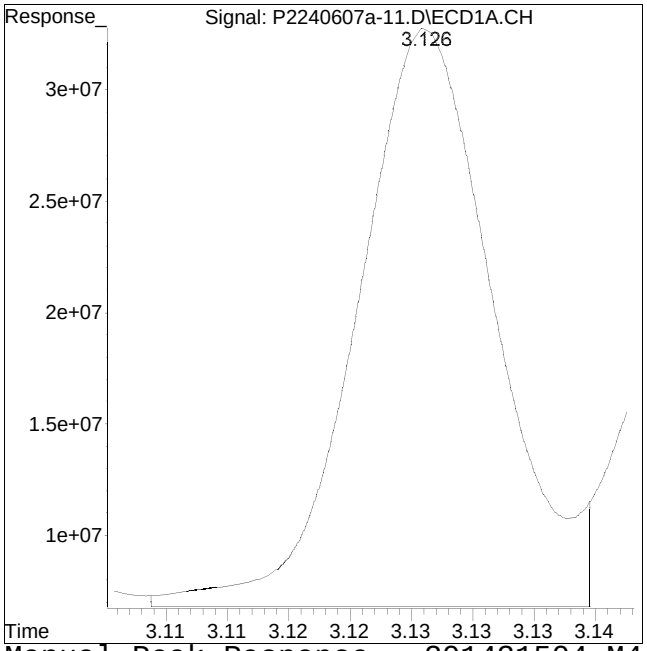
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-11.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:09 Instrument : Pest 2
Sample : WG1930604-6,42,, ms Quant Date : 6/7/2024 9:35 am

Compound #11: 1260-3



Original Peak Response = 218715719



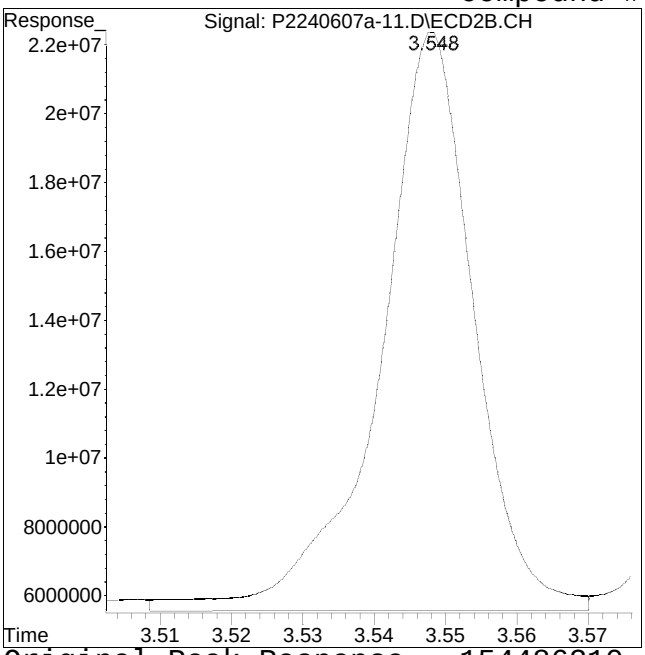
Manual Peak Response = 201431504 M4

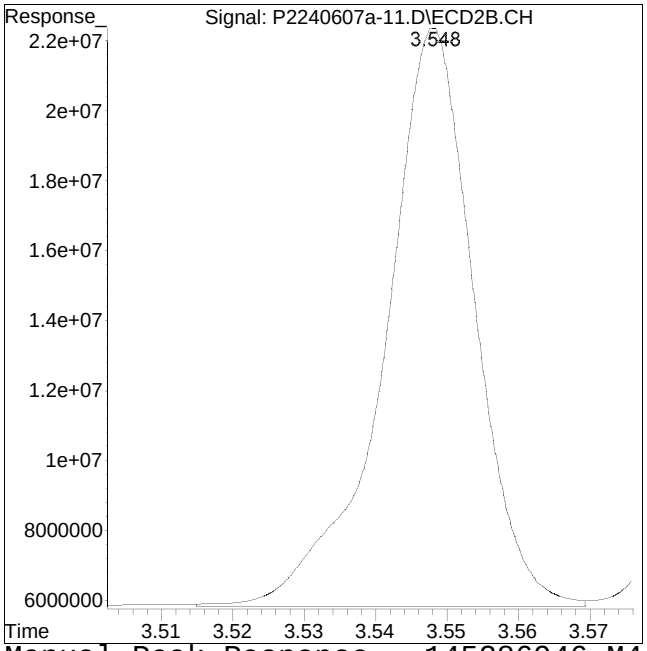
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-11.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:09 Instrument : Pest 2
Sample : WG1930604-6,42,, ms Quant Date : 6/7/2024 9:35 am

Compound #62: 1260-3 #2



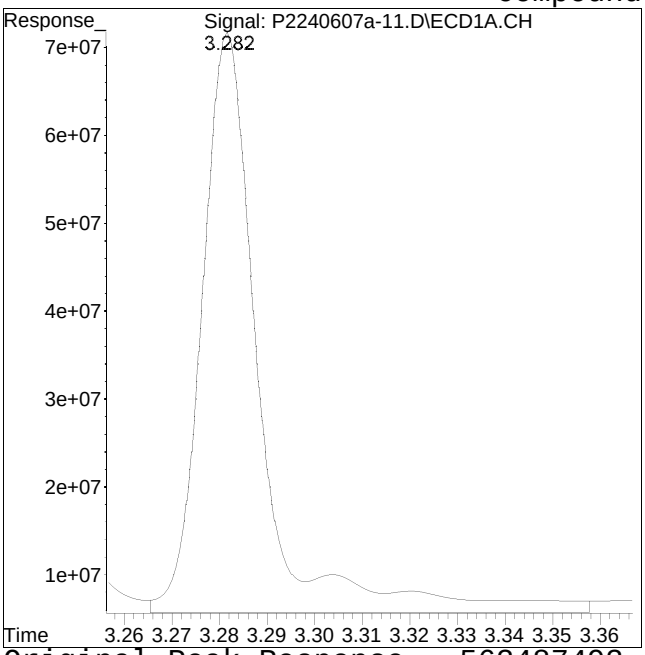


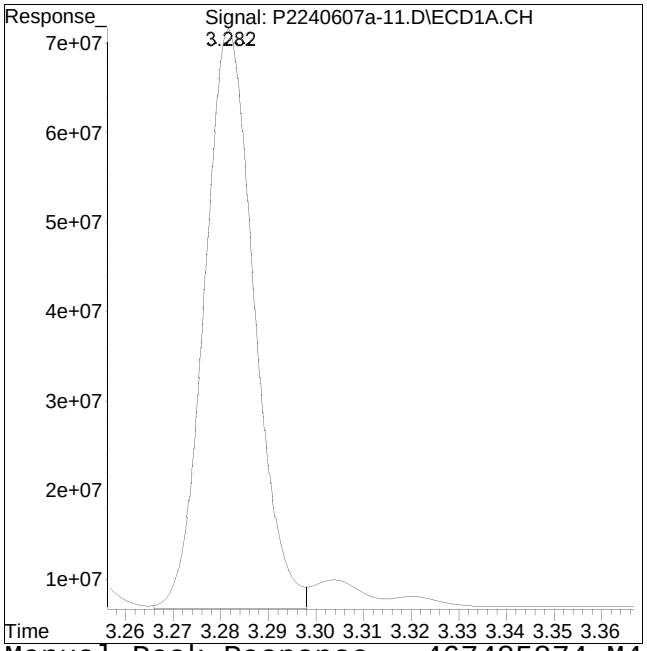
Original Peak Response = 154486310 Manual Peak Response = 145286946 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-11.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:09 Instrument : Pest 2
Sample : WG1930604-6,42,, ms Quant Date : 6/7/2024 9:35 am

Compound #12: 1260-4



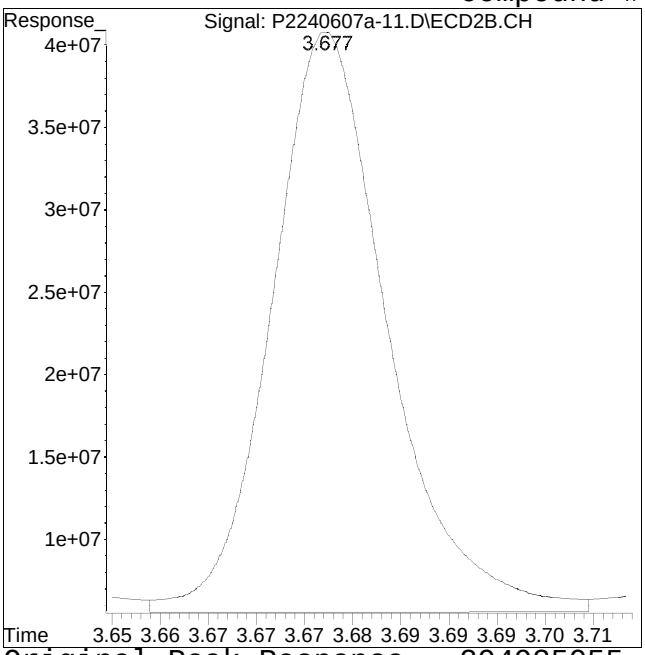


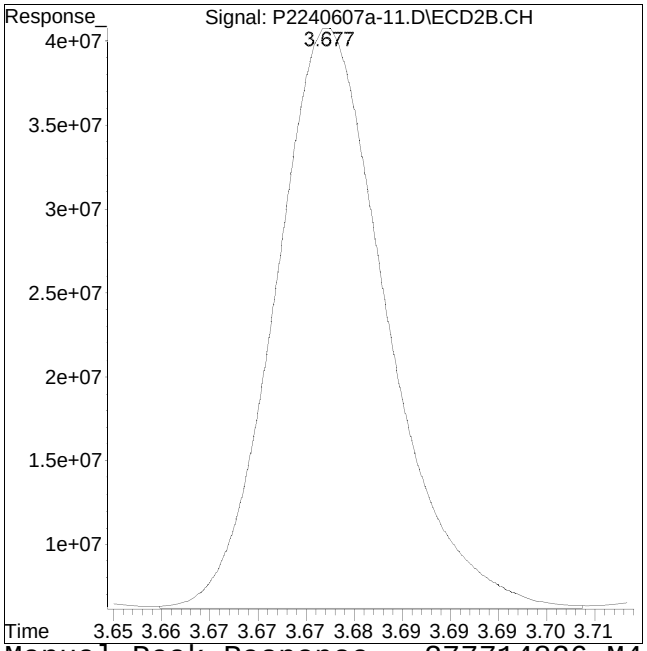
Original Peak Response = 563487493 Manual Peak Response = 467485874 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-11.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:09 Instrument : Pest 2
Sample : WG1930604-6,42,, ms Quant Date : 6/7/2024 9:35 am

Compound #63: 1260-4 #2



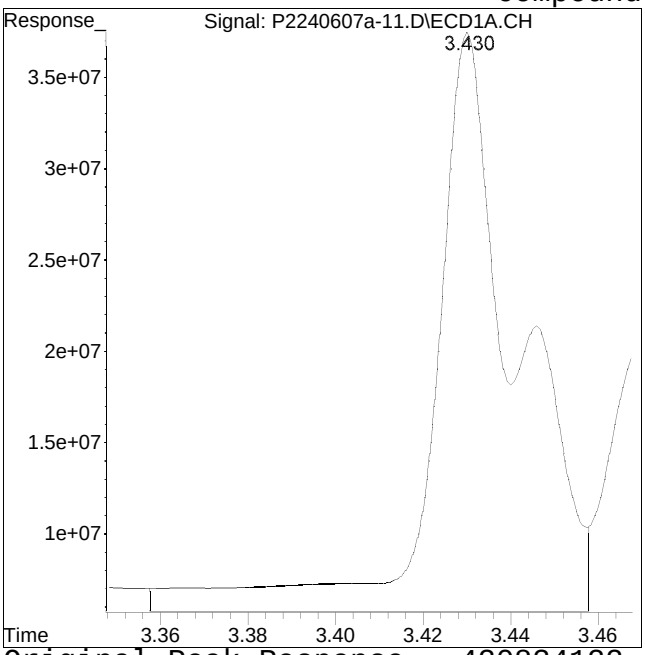


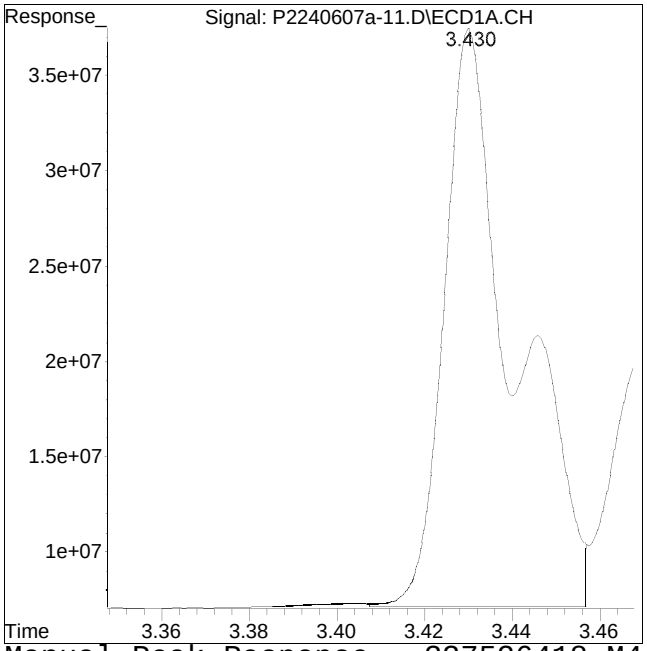
Original Peak Response = 294935955 Manual Peak Response = 277714826 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-11.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:09 Instrument : Pest 2
Sample : WG1930604-6,42,, ms Quant Date : 6/7/2024 9:35 am

Compound #13: 1260-5



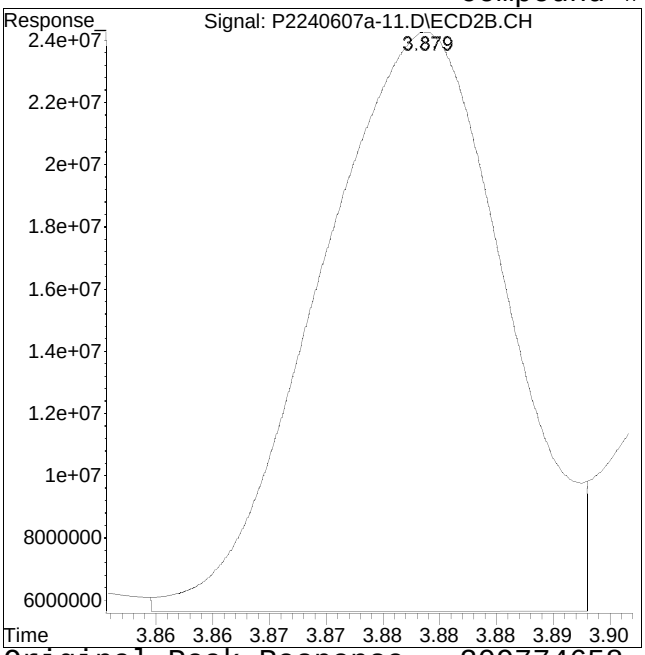


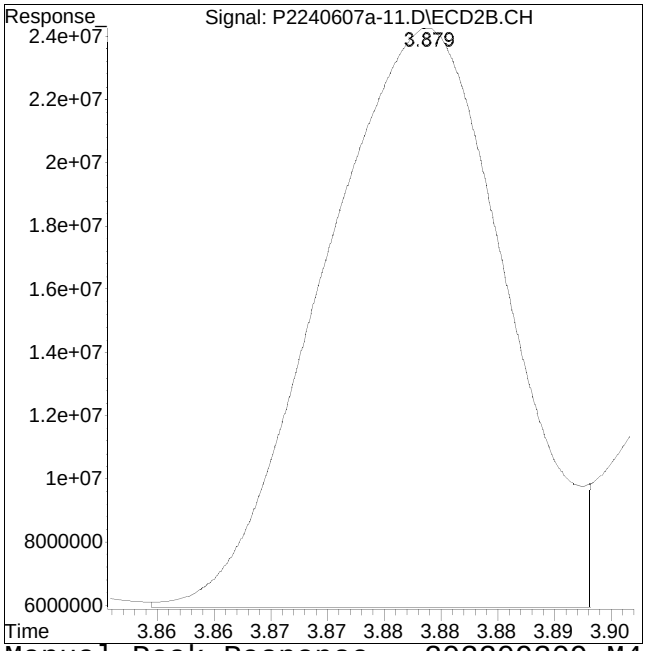
Original Peak Response = 420834122 Manual Peak Response = 337526418 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-11.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:09 Instrument : Pest 2
Sample : WG1930604-6,42,, ms Quant Date : 6/7/2024 9:35 am

Compound #64: 1260-5 #2





Original Peak Response = 209774658 Manual Peak Response = 203309309 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 9:17
Operator : pest2:mhg
Sample : WG1930604-7,42,, msd
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 09:35:50 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.158	1.228	389.6E6	258.7E6	25.000M3	25.000M4
Standard Area 1 : #1 = 477774528				Recovery =	81.56%	
Standard Area 1 : #2 = 323810098				Recovery =	79.89%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.442	1.602	370.5E6	226.6E6	18.134M3	17.785
Spiked Amount 20.000	Range 30 - 150		Recovery =	90.67%	88.92%	
3) s Decachlorobi	4.015	4.529	294.7E6	150.0E6	22.326	24.991
Spiked Amount 20.000	Range 30 - 150		Recovery =	111.63%	124.96%	
Target Compounds						
4) l1 1016-1	1.581	1.802	75222666	55622823	215.064M4	255.496M4
5) l1 1016-2	1.722	1.973	181.8E6	117.4E6	237.209M4	245.621M4
6) l1 1016-3	1.911	2.174	374.5E6	232.9E6	237.608M4	243.501M4
7) l1 1016-4	1.966	2.234	149.2E6	92089957	237.464M3	260.313M3
8) l1 1016-5	2.137	2.446	160.4E6	81425089	230.085	271.551
Sum 1016-1			941.2E6	579.5E6	1157.430	1276.482
Average 1016-1					231.486	255.296
9) l2 1260-1	2.679	3.054	226.6E6	165.5E6	225.266M4	296.468M4
10) l2 1260-2	2.810	3.156	352.3E6	174.1E6	232.289M4	272.541M3
11) l2 1260-3	3.126	3.549	197.8E6	146.4E6	209.892M4	295.484M4
12) l2 1260-4	3.281	3.678	467.2E6	283.7E6	231.417M4	284.852M4
13) l2 1260-5	3.430	3.879	342.0E6	212.2E6	241.715M1	310.737M4
Sum 1260-1			1585.9E6	982.0E6	1140.580	1460.081
Average 1260-1					228.116	292.016
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 9:17
Operator : pest2:mhg
Sample : WG1930604-7,42,, msd
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 09:35:50 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240607A\P2240607a-02.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

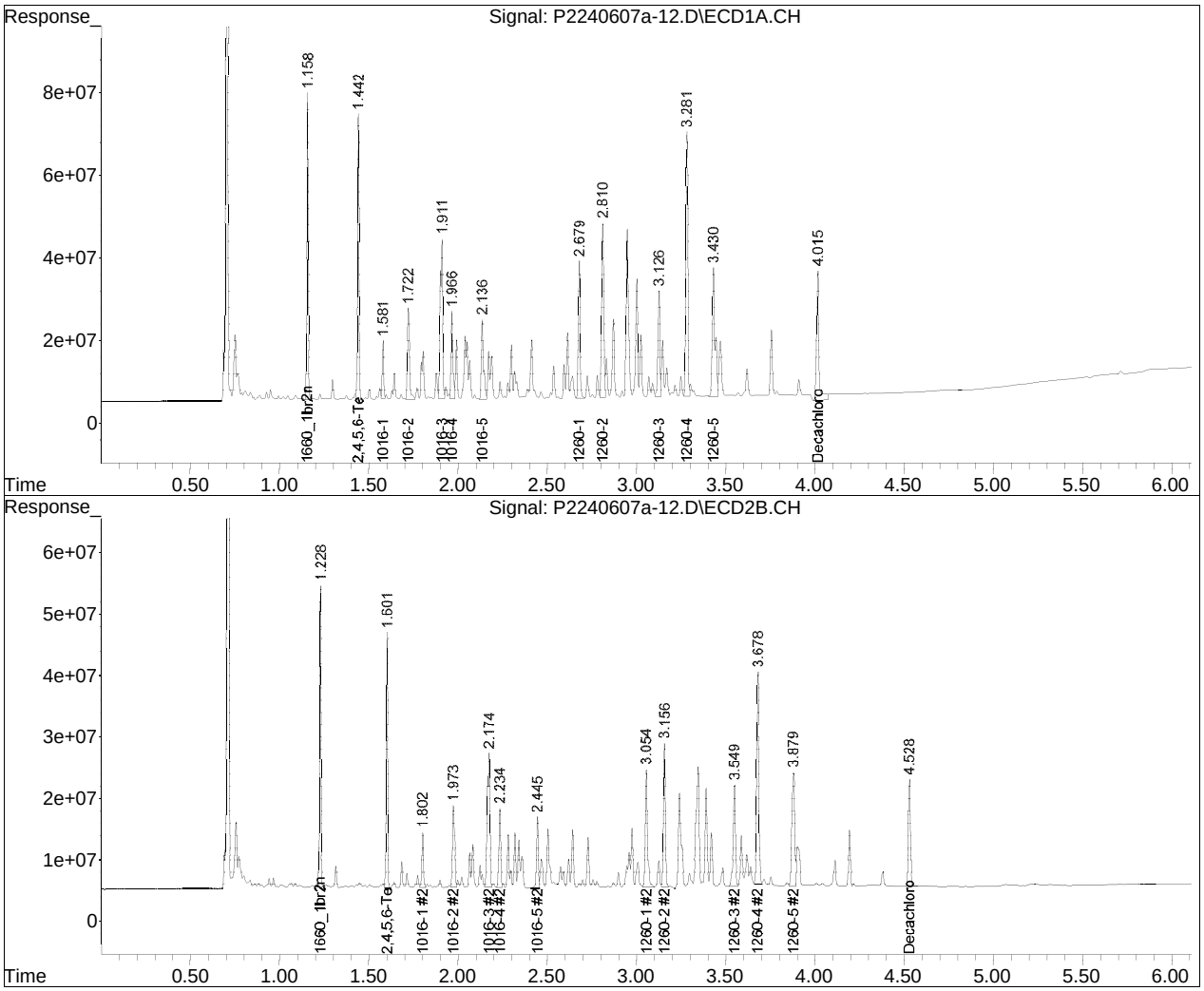
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2024\240607A\P2240607a-02.D•

Data Path : I:\PCB\Pest2\2024\240607A\
Data File : P2240607a-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jun 2024 9:17
Operator : pest2:mhg
Sample : WG1930604-7,42,, msd
Misc : WG1931015,WG1930604,ical21102
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 07 09:35:50 2024
Quant Method : I:\PCB\Pest2\2024\240607A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

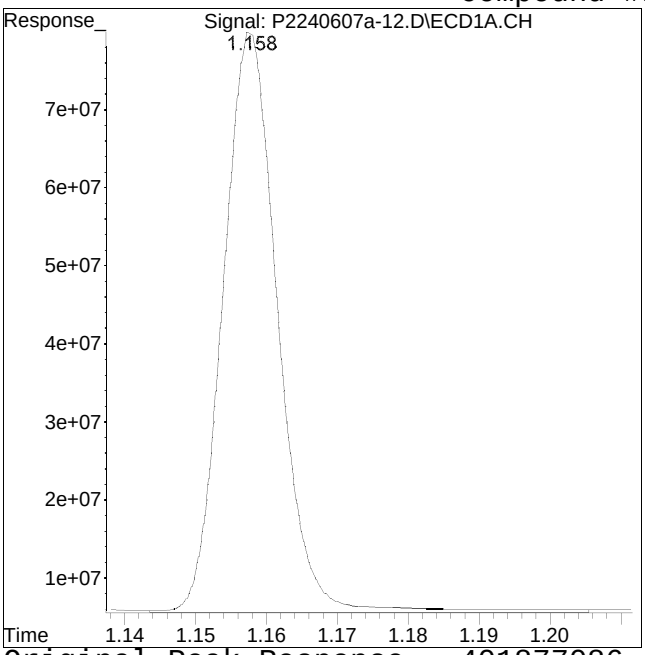
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

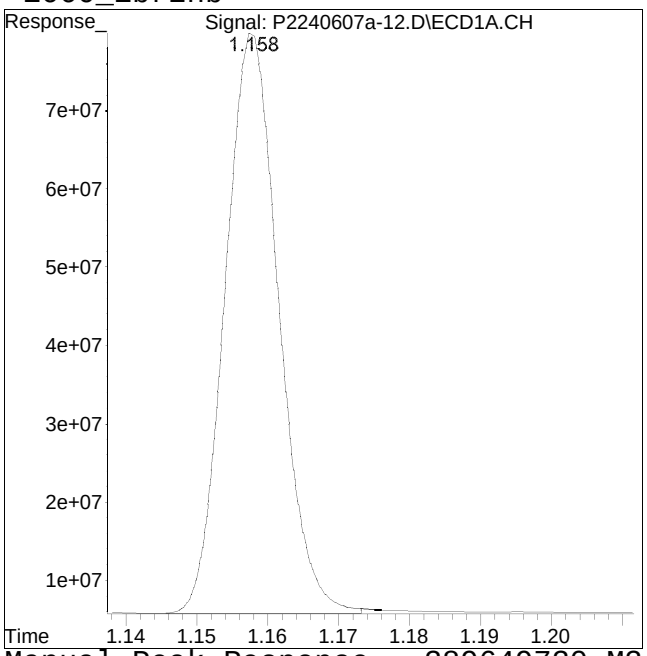


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-12.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:17 Instrument : Pest 2
Sample : WG1930604-7,42,, msd Quant Date : 6/7/2024 9:35 am

Compound #1: 1660_1br2nb



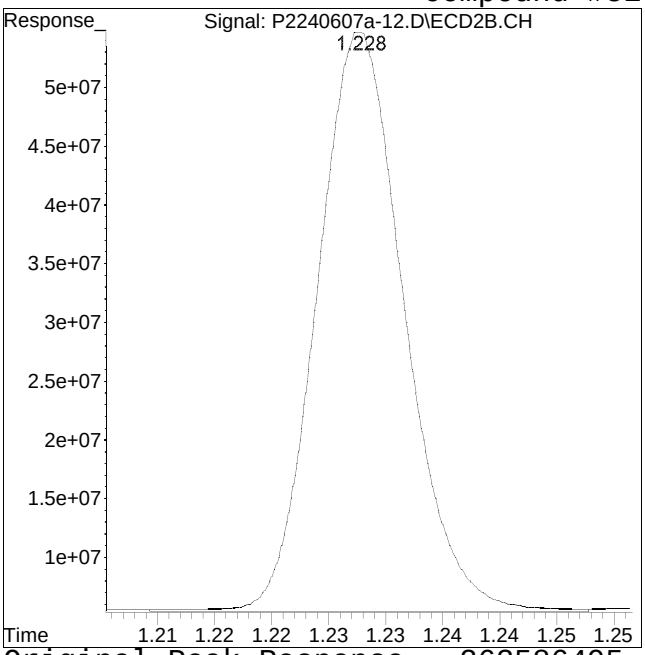


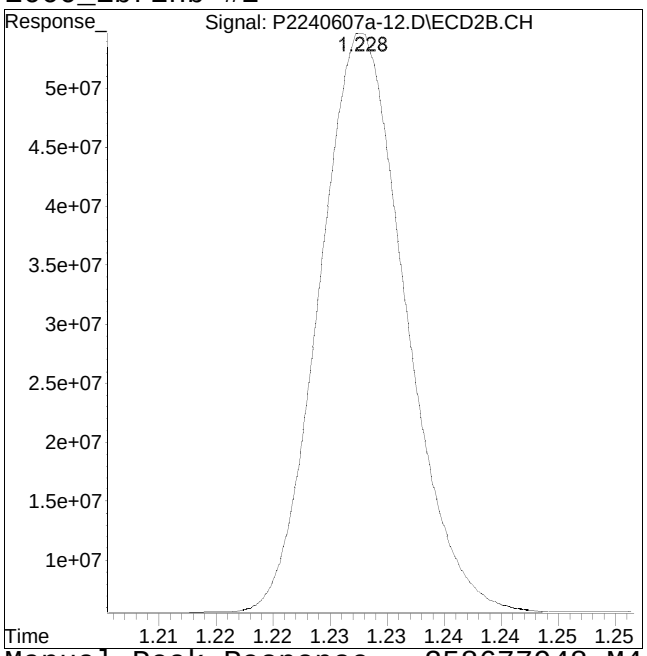
Original Peak Response = 401877086 Manual Peak Response = 389649730 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-12.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:17 Instrument : Pest 2
Sample : WG1930604-7,42,, msd Quant Date : 6/7/2024 9:35 am

Compound #52: 1660_1br2nb #2



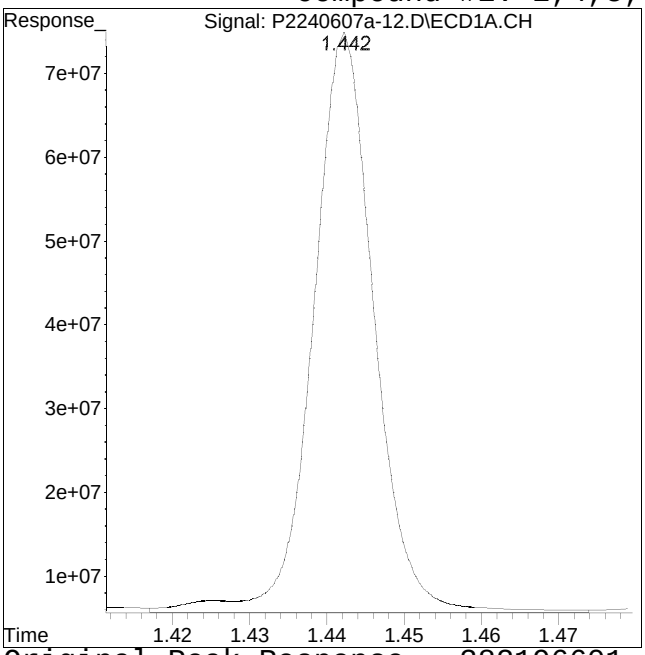


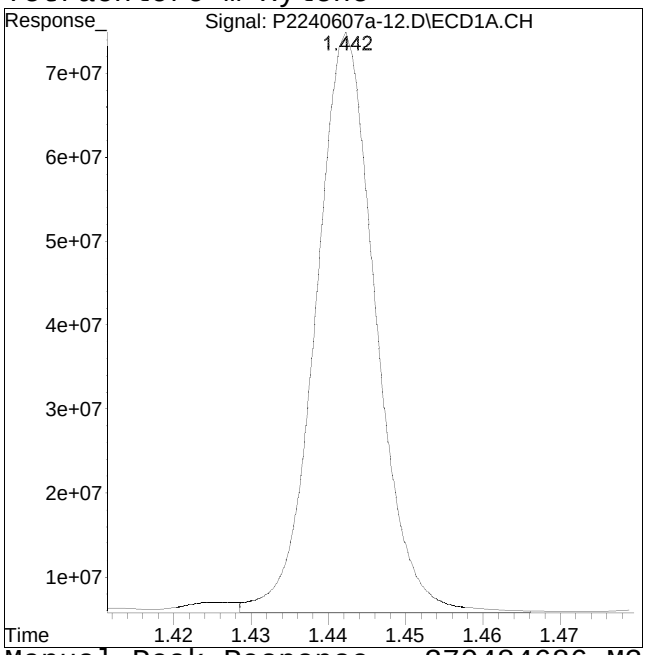
Original Peak Response = 263586495 Manual Peak Response = 258677948 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-12.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:17 Instrument : Pest 2
Sample : WG1930604-7,42,, msd Quant Date : 6/7/2024 9:35 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



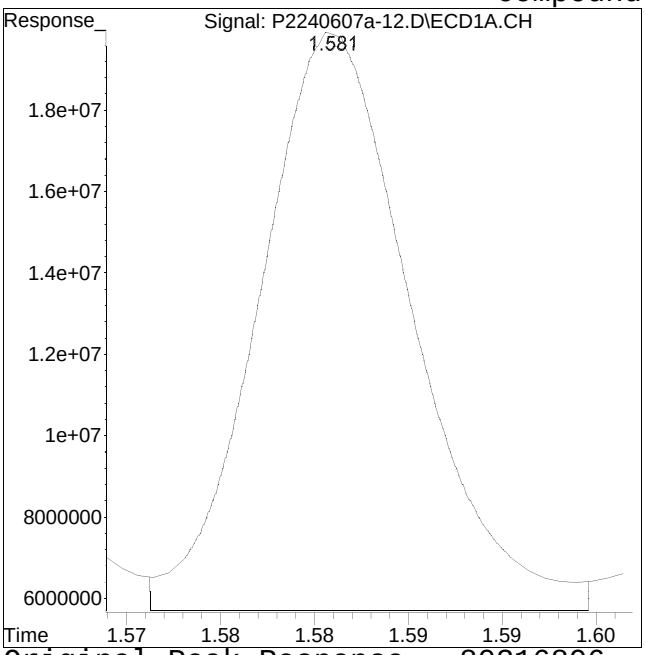


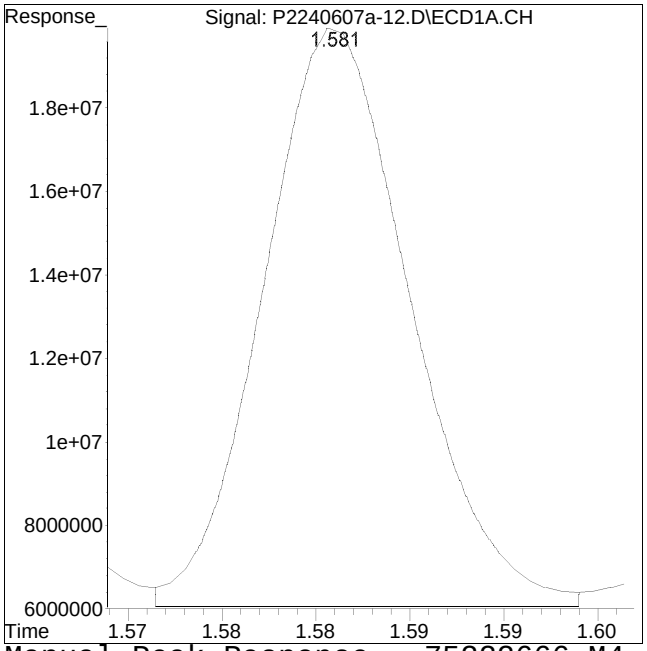
Original Peak Response = 382196601 Manual Peak Response = 370484686 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-12.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:17 Instrument : Pest 2
Sample : WG1930604-7,42,, msd Quant Date : 6/7/2024 9:35 am

Compound #4: 1016-1



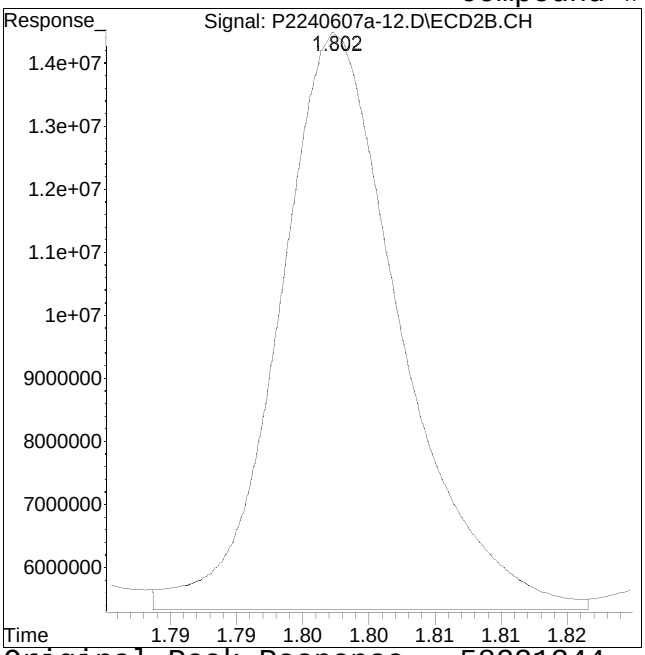


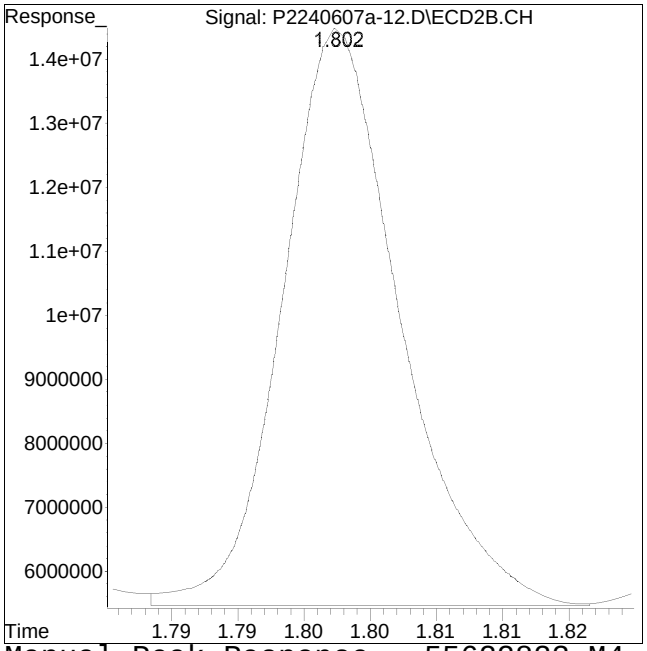
Original Peak Response = 80316896 Manual Peak Response = 75222666 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-12.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:17 Instrument : Pest 2
Sample : WG1930604-7,42,, msd Quant Date : 6/7/2024 9:35 am

Compound #55: 1016-1 #2



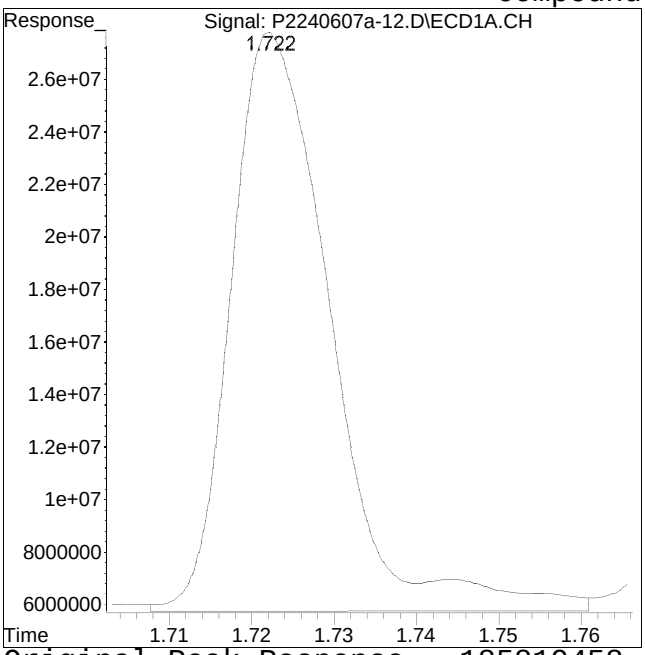


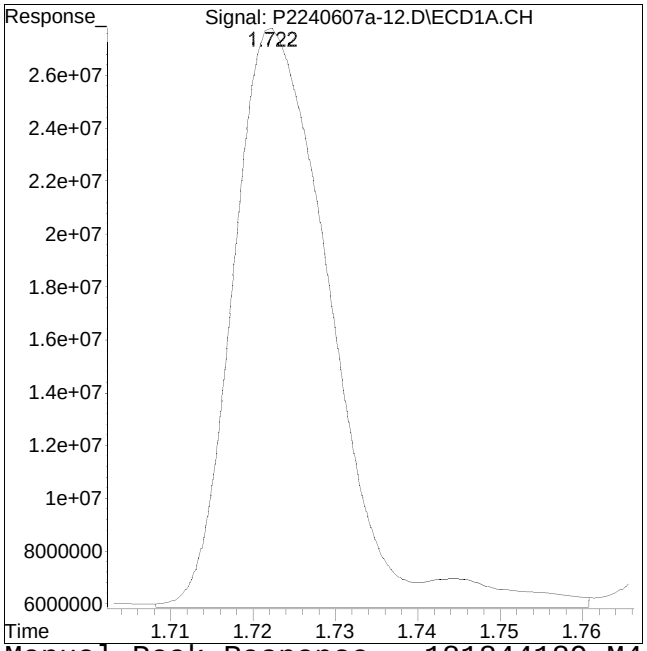
Original Peak Response = 58231244 Manual Peak Response = 55622823 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-12.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:17 Instrument : Pest 2
Sample : WG1930604-7,42,, msd Quant Date : 6/7/2024 9:35 am

Compound #5: 1016-2



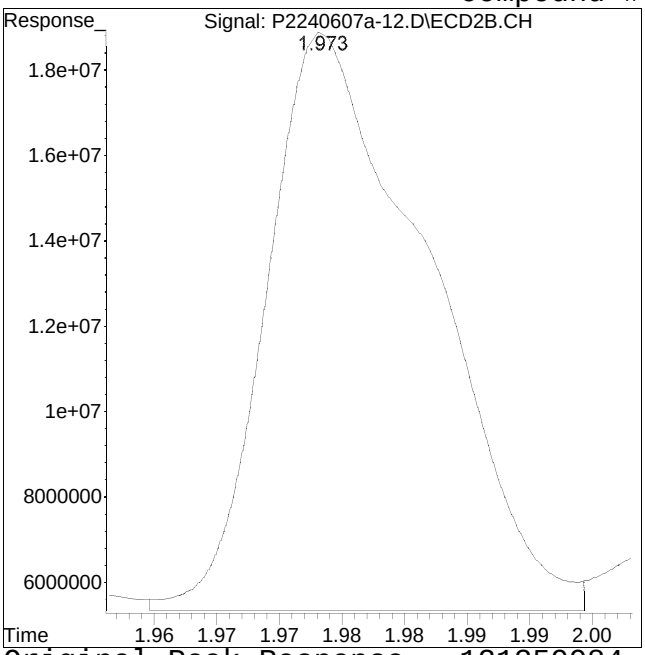


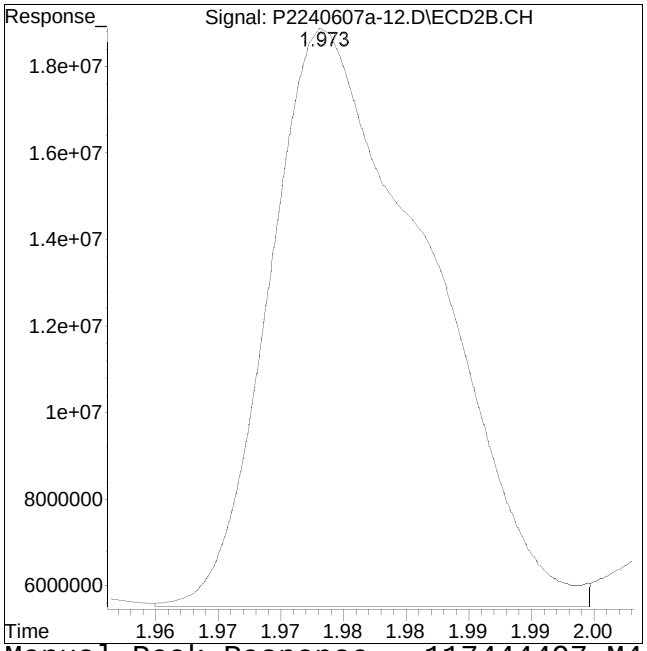
Original Peak Response = 185819458 Manual Peak Response = 181844189 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-12.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:17 Instrument : Pest 2
Sample : WG1930604-7,42,, msd Quant Date : 6/7/2024 9:35 am

Compound #56: 1016-2 #2



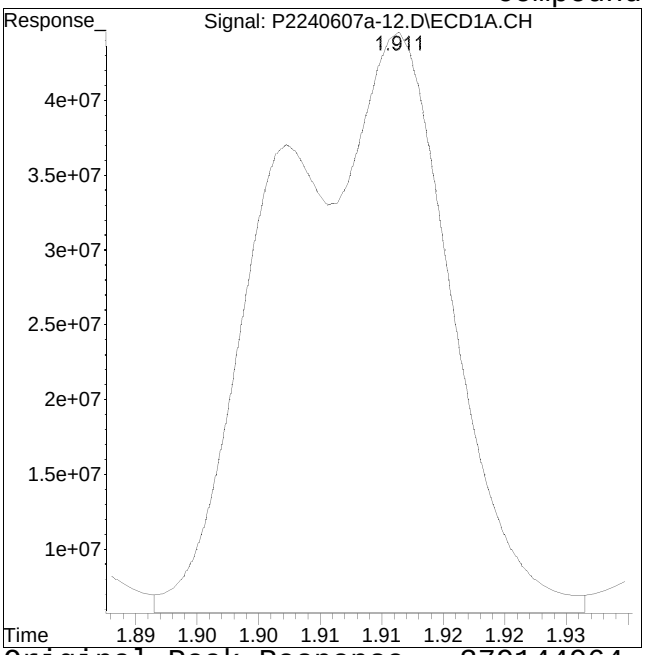


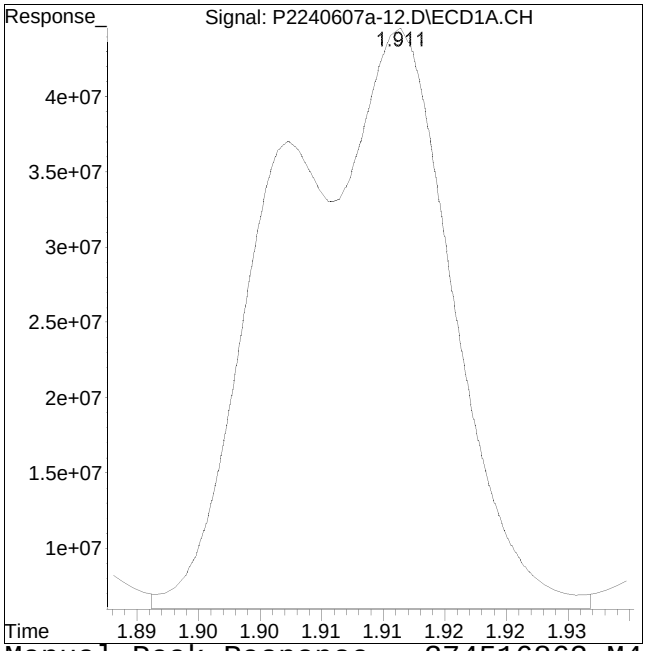
Original Peak Response = 121359984 Manual Peak Response = 117444497 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-12.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:17 Instrument : Pest 2
Sample : WG1930604-7,42,, msd Quant Date : 6/7/2024 9:35 am

Compound #6: 1016-3



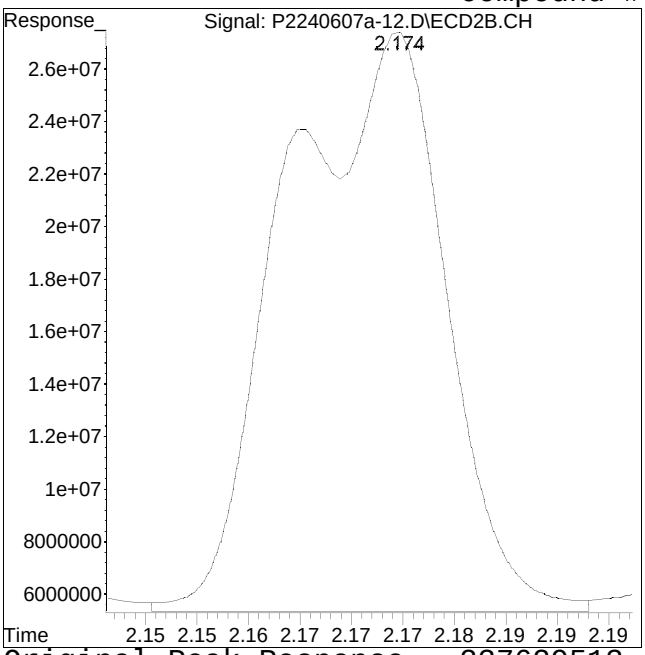


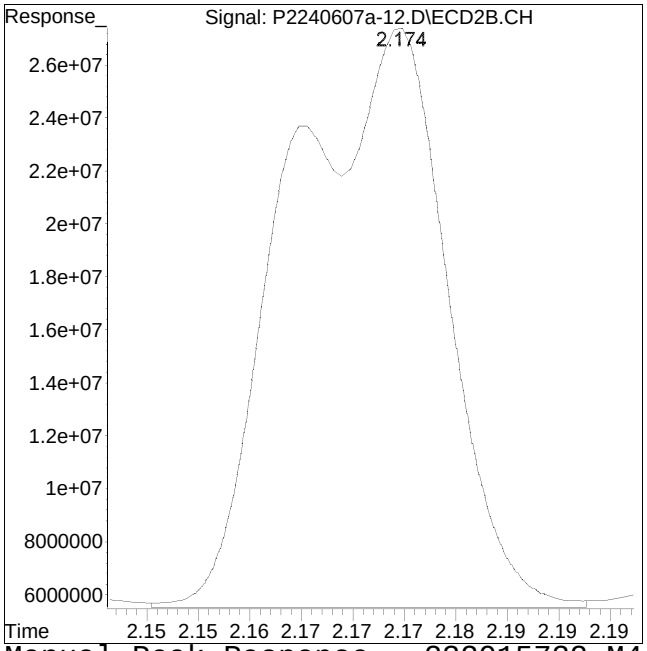
Original Peak Response = 379144964 Manual Peak Response = 374516863 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-12.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:17 Instrument : Pest 2
Sample : WG1930604-7,42,, msd Quant Date : 6/7/2024 9:35 am

Compound #57: 1016-3 #2



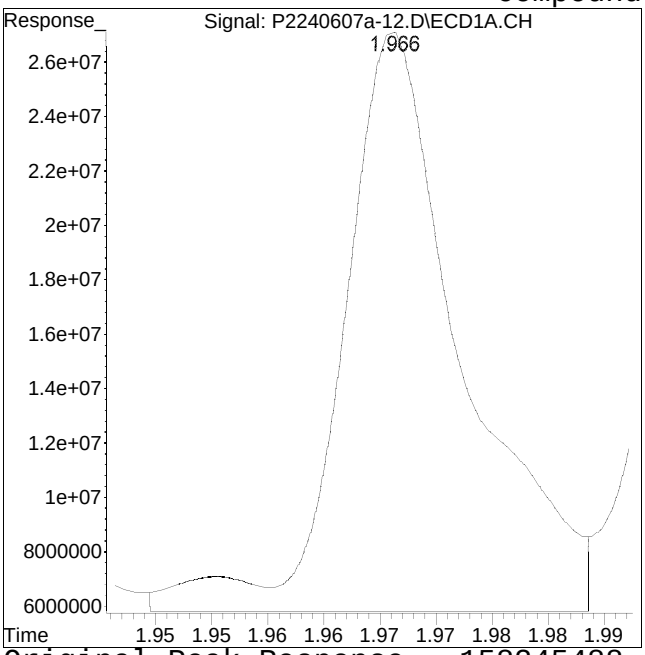


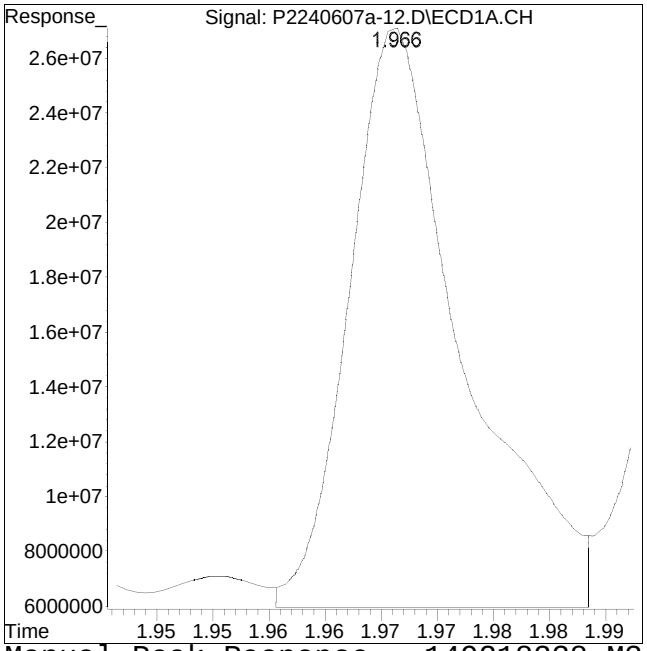
Original Peak Response = 237629513 Manual Peak Response = 232915732 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-12.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:17 Instrument : Pest 2
Sample : WG1930604-7,42,, msd Quant Date : 6/7/2024 9:35 am

Compound #7: 1016-4



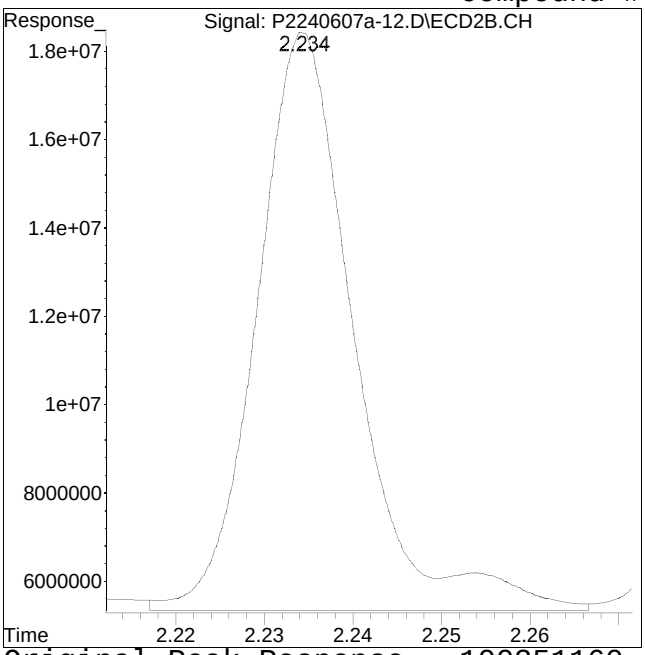


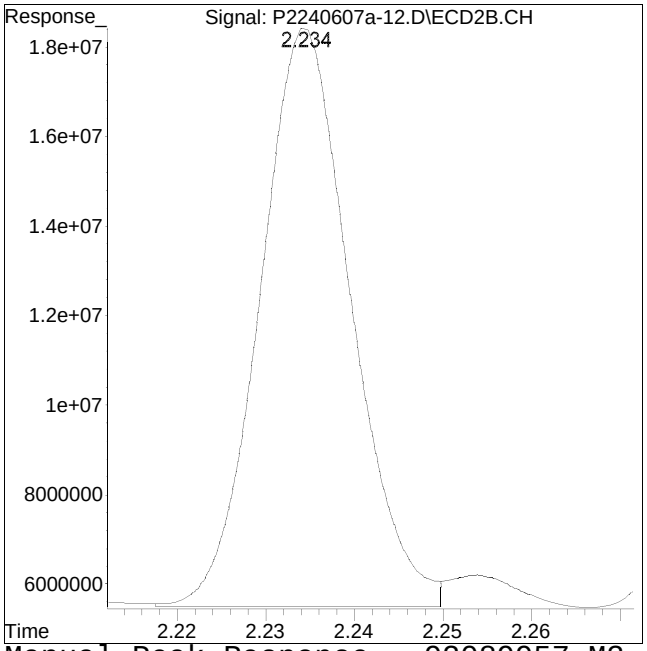
Original Peak Response = 158245488 Manual Peak Response = 149218238 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-12.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:17 Instrument : Pest 2
Sample : WG1930604-7,42,, msd Quant Date : 6/7/2024 9:35 am

Compound #58: 1016-4 #2



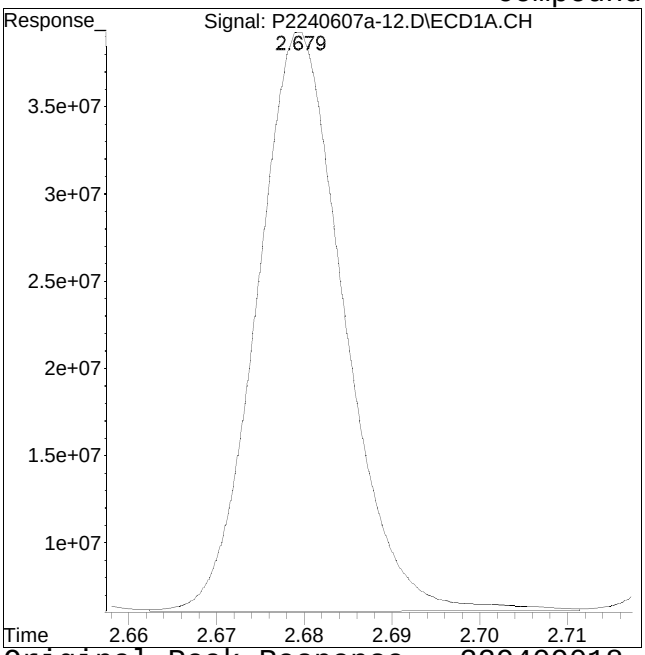


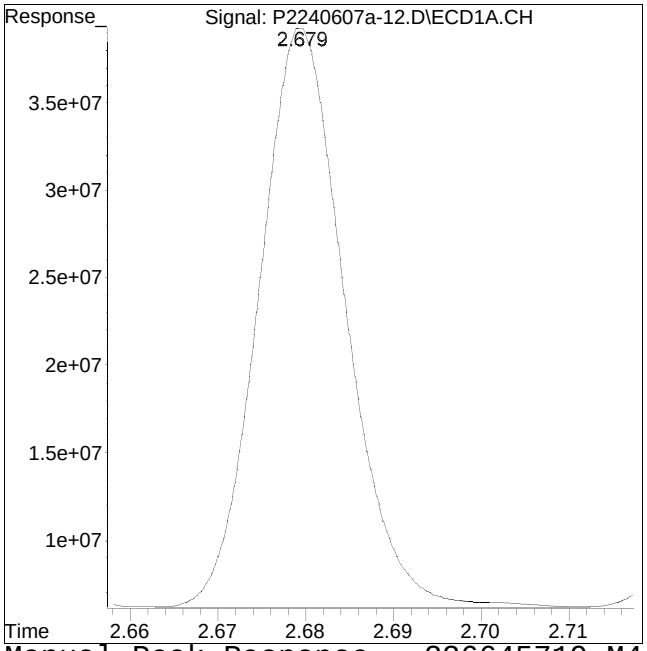
Original Peak Response = 100351160 Manual Peak Response = 92089957 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-12.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:17 Instrument : Pest 2
Sample : WG1930604-7,42,, msd Quant Date : 6/7/2024 9:35 am

Compound #9: 1260-1



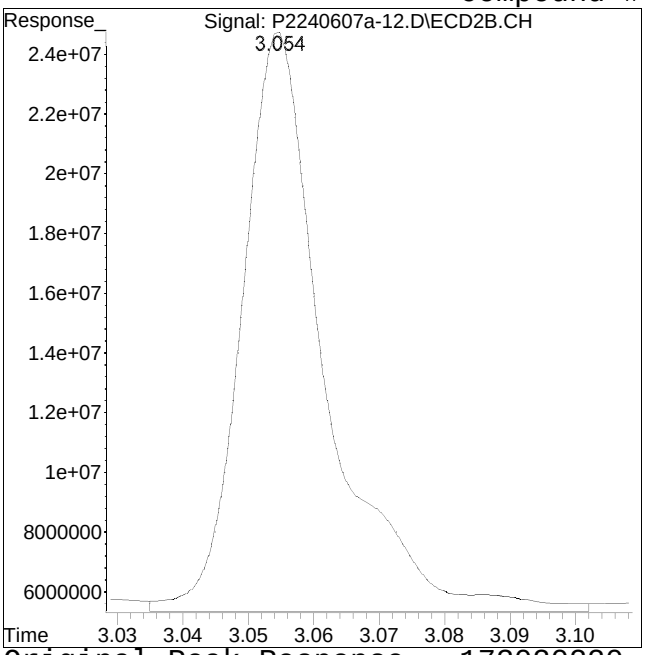


Original Peak Response = 229409018 Manual Peak Response = 226645719 M4
M4 = Poor automated baseline construction.

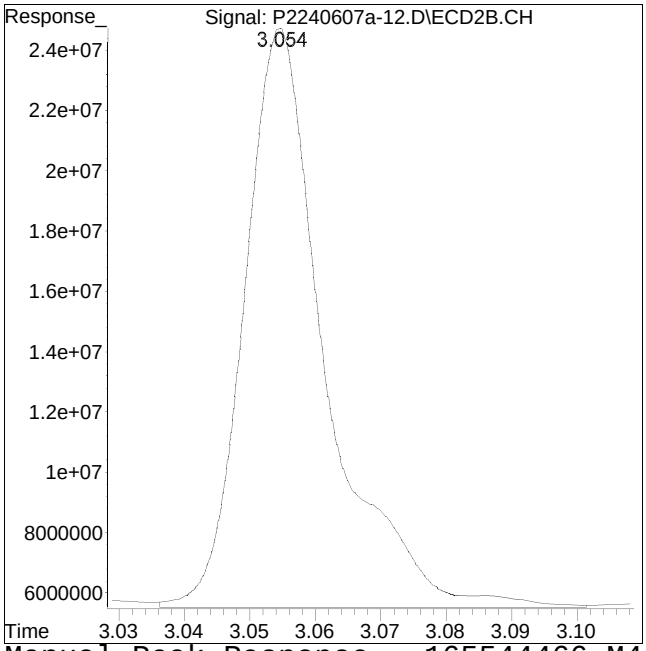
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-12.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:17 Instrument : Pest 2
Sample : WG1930604-7,42,, msd Quant Date : 6/7/2024 9:35 am

Compound #60: 1260-1 #2



Original Peak Response = 173020220



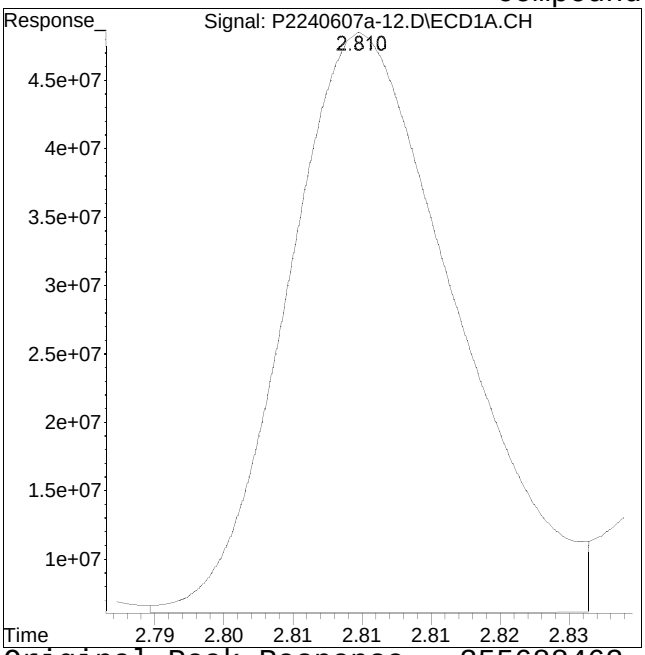
Manual Peak Response = 165544466 M4

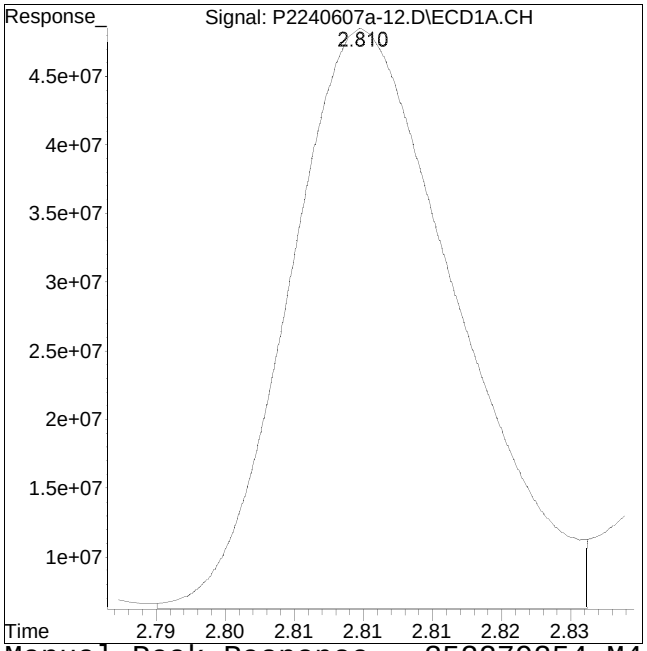
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-12.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:17 Instrument : Pest 2
Sample : WG1930604-7,42,, msd Quant Date : 6/7/2024 9:35 am

Compound #10: 1260-2



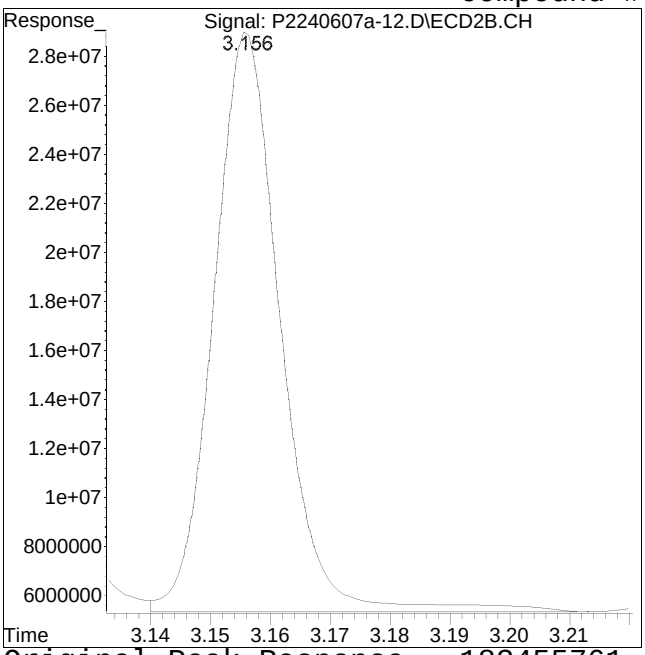


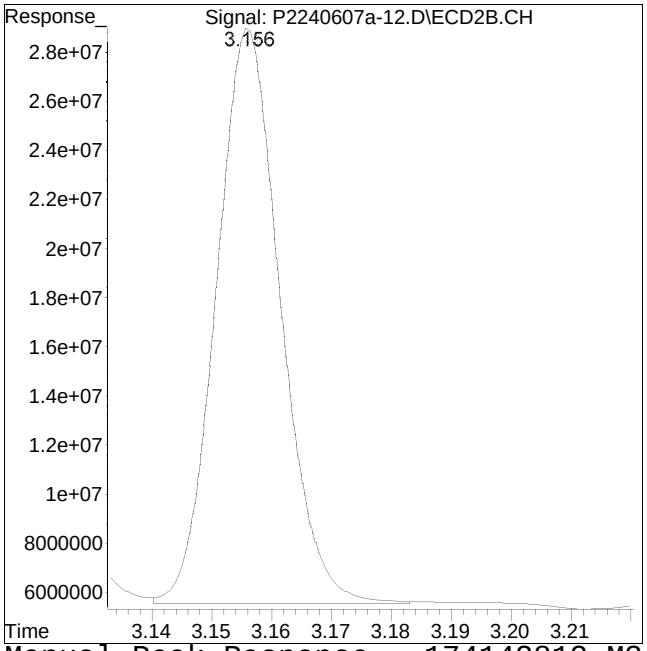
Original Peak Response = 355688463 Manual Peak Response = 352279254 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-12.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:17 Instrument : Pest 2
Sample : WG1930604-7,42,, msd Quant Date : 6/7/2024 9:35 am

Compound #61: 1260-2 #2



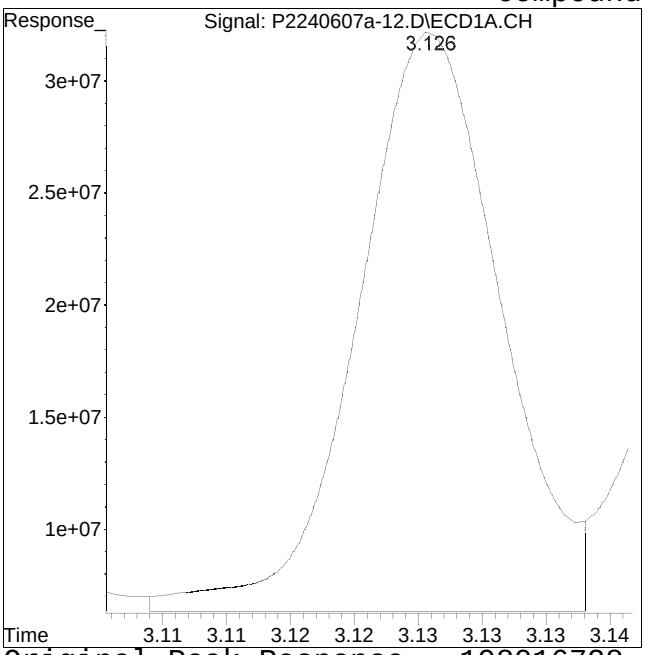


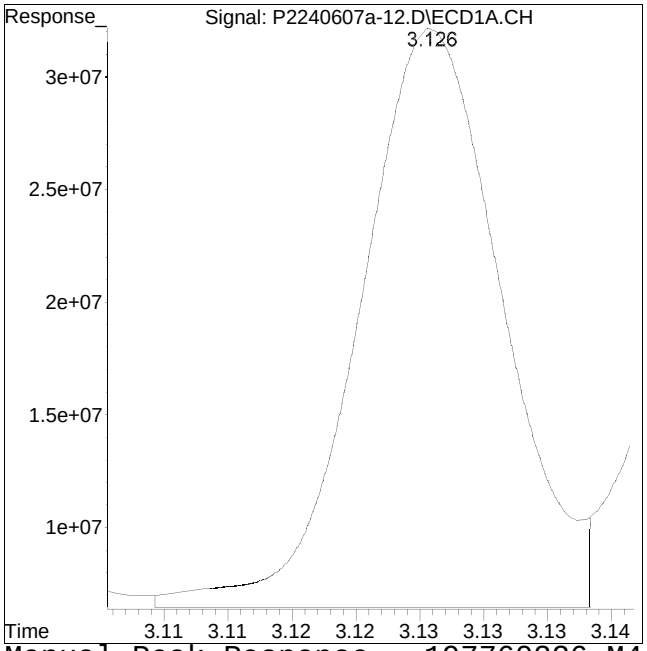
Original Peak Response = 183455761 Manual Peak Response = 174142812 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-12.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:17 Instrument : Pest 2
Sample : WG1930604-7,42,, msd Quant Date : 6/7/2024 9:35 am

Compound #11: 1260-3



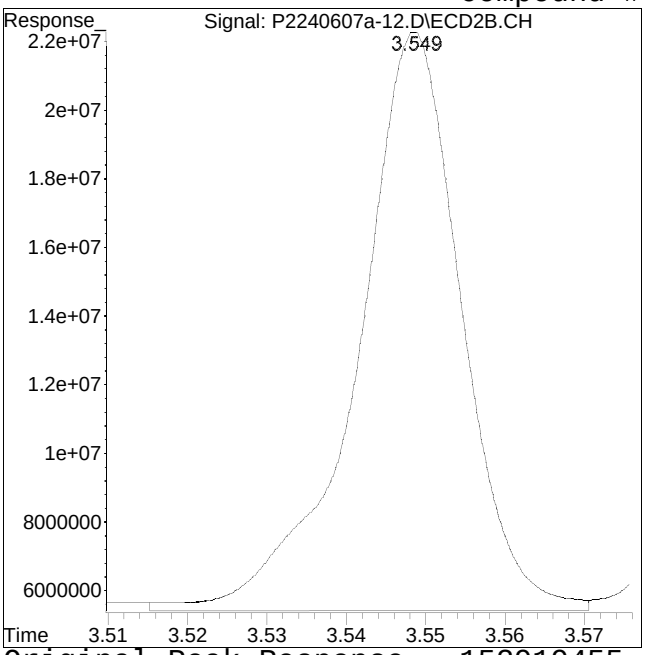


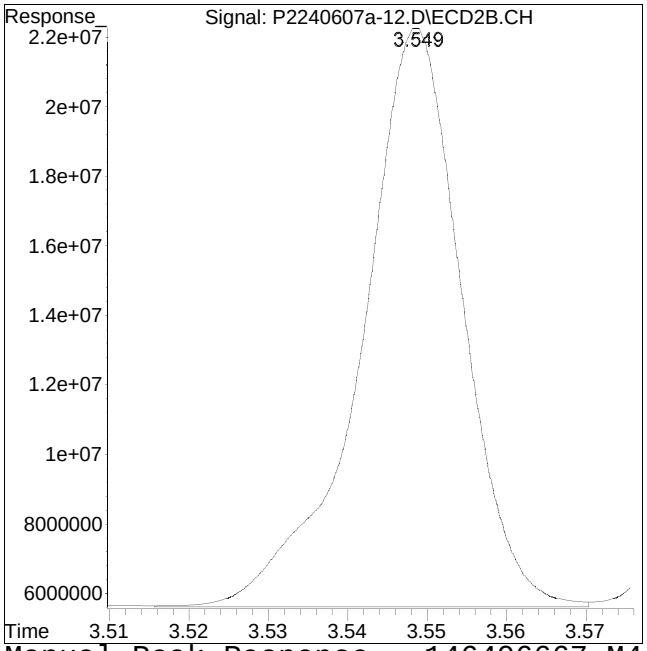
Original Peak Response = 198016728 Manual Peak Response = 197760226 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-12.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:17 Instrument : Pest 2
Sample : WG1930604-7,42,, msd Quant Date : 6/7/2024 9:35 am

Compound #62: 1260-3 #2



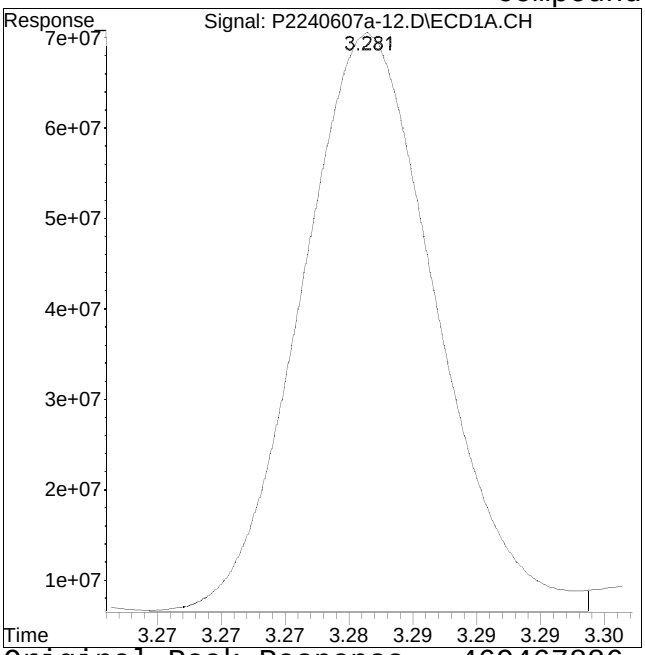


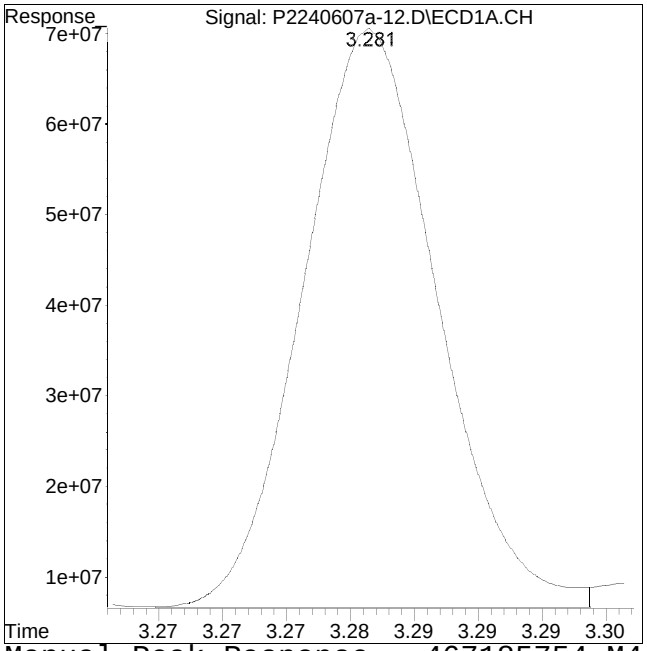
Original Peak Response = 152919455 Manual Peak Response = 146406667 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-12.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:17 Instrument : Pest 2
Sample : WG1930604-7,42,, msd Quant Date : 6/7/2024 9:35 am

Compound #12: 1260-4



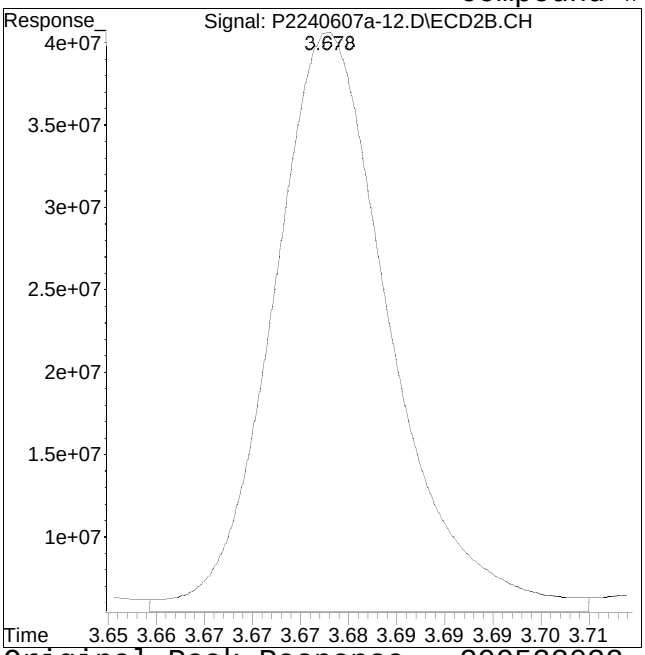


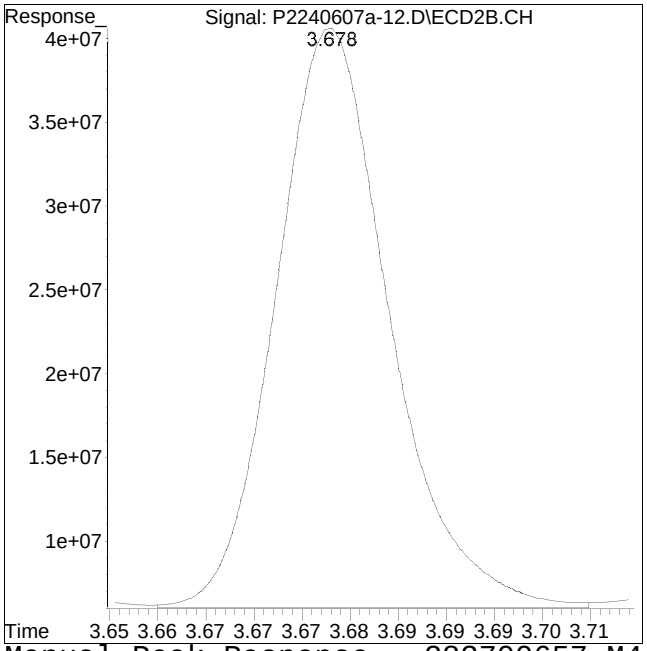
Original Peak Response = 469467886 Manual Peak Response = 467185754 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-12.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:17 Instrument : Pest 2
Sample : WG1930604-7,42,, msd Quant Date : 6/7/2024 9:35 am

Compound #63: 1260-4 #2



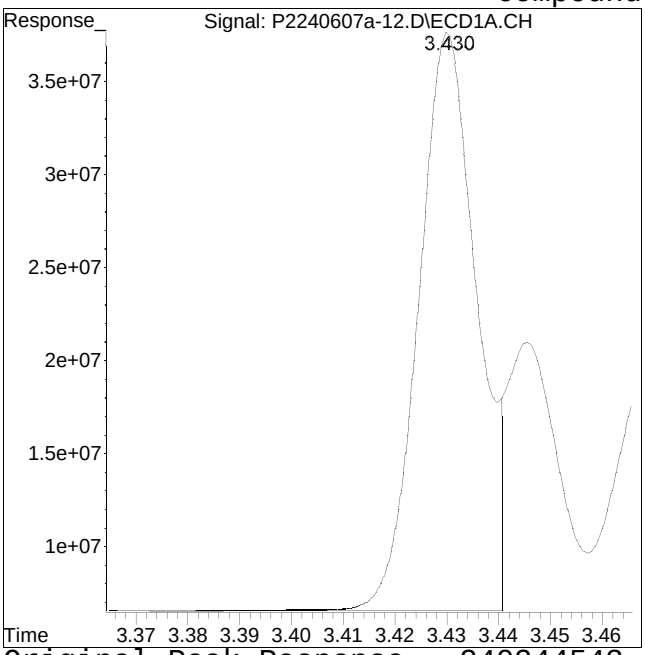


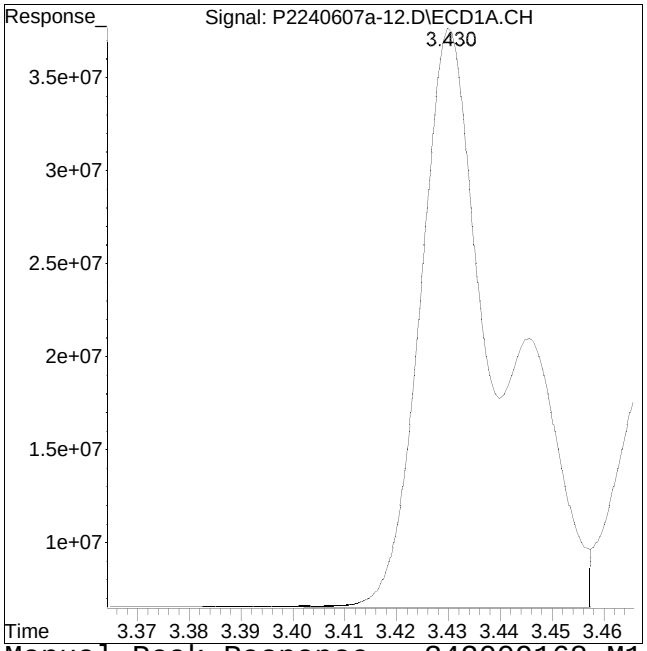
Original Peak Response = 299522032 Manual Peak Response = 283700657 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-12.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:17 Instrument : Pest 2
Sample : WG1930604-7,42,, msd Quant Date : 6/7/2024 9:35 am

Compound #13: 1260-5



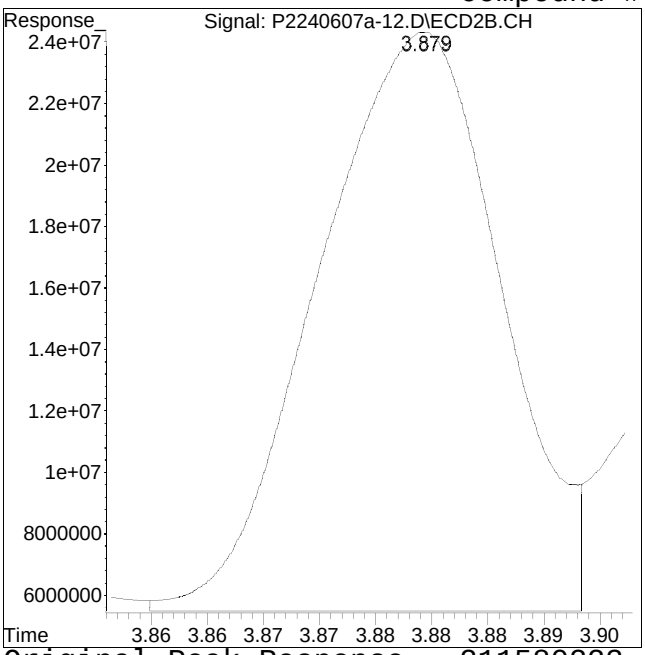


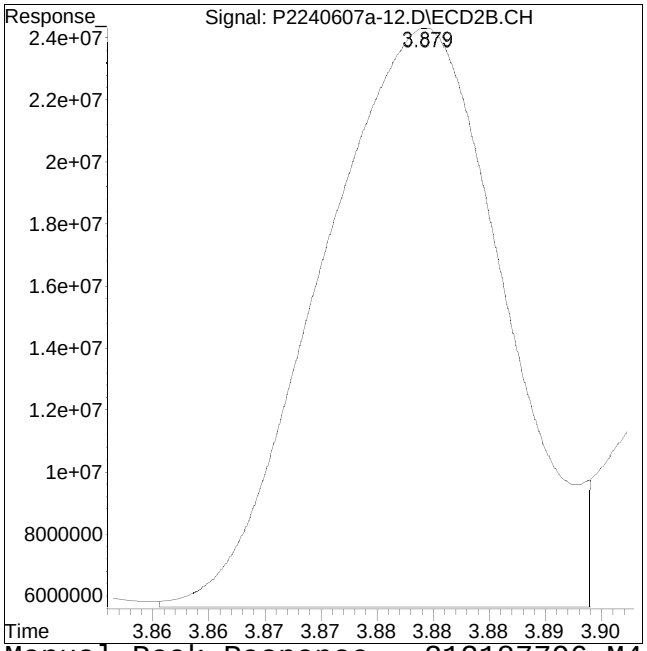
Original Peak Response = 240244543 Manual Peak Response = 342009168 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240607A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240607a-12.D Operator : pest2:mhg
Date Inj'd : 6/7/2024 9:17 Instrument : Pest 2
Sample : WG1930604-7,42,, msd Quant Date : 6/7/2024 9:35 am

Compound #64: 1260-5 #2





Original Peak Response = 211580223 Manual Peak Response = 212187796 M4
M4 = Poor automated baseline construction.

Calculation of PCB Aroclors & Pesticides

Aqueous Concentration Formula:
Amt * DF*(Vt/Vp)*(1000/Vo)*(Ve/1000)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Vo = Volume of Sample (mL)
Ve = Extraction Lab Final Volume (mL)

Soil Concentration Formula:
Amt * DF * (Vt/Vp)*(1000/Wt)*(Ve/1000)* (100/TS)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Wt = Weight of Sample (g)
Ve = Extraction Lab Final Volume (mL)
TS = Total Solids

Dep.: PCB
Inst: Pest_2
Date: **05/06/24**
Run: **I**

Method
GC: lvi

Seq: WG1918477
IS: pp11528
ICAL21102

Vial	Data File	Sample	CCAL	notes	initials
1	P2240506i-01	blank			
2	P2240506i-02	+1660 ccal pp11545 lvi icv			
3	P2240506i-03	il44268,42e,,pp 11454			RMP 5/7
4	P2240506i-04	il43262,42e,,pp 11457			RMP 5/7
5	P2240506i-05	il41248,42e,,pp 11452			RMP 5/7
6	P2240506i-06	il42154,42e,,pp 11449			RMP 5/7
7	P2240506i-07	il11660,42e,,pp 11447	Interference		
8	P2240506i-08	il21660,42e,,pp 11447			RMP 5/7
9	P2240506i-09	il31660,42e,,pp 11447			RMP 5/7
10	P2240506i-10	il41660,42e,,pp 11447			RMP 5/7
11	P2240506i-11	il51660,42e,,pp 11447			RMP 5/7
12	P2240506i-12	il61660,42e,,pp 11447			RMP 5/7
13	P2240506i-13	cicv4268,42,,pp 11468			RMP 5/7
14	P2240506i-14	cicv3262,42,,pp 11467			RMP 5/7
15	P2240506i-15	cicv1248,42,,pp 11461			RMP 5/7
16	P2240506i-16	cicv2154,42,,pp 11460			RMP 5/7
17	P2240506i-17	cicv1660,42,,pp 11459	RR L1	V to F17 rmp	
18	P2240506i-18	blank			
19	P2240506i-19	il11660,42e,,pp 11447			RMP 5/7
20	P2240506i-20	cicv1660,42,,pp 11459		V to F20 rmp	RMP 5/7

Dep.: PCB
Inst: Pest_2
Date: **06/06/24**
Run: a

Method
GC: PCB

Seq: WG1930475
IS: pp11530
LVI

Vial	Data File	Sample	CCAL	notes	screen	initials
1	P2240606a-01	blank				
2	P2240606a-02	+1660 pp11459 lvi icv	15% 5:34 akm 475-1			mhg 6/6
3	P2240606a-03	+2154 pp11460 lvi icv	fail, rr			
4	P2240606a-04	+1248 pp11461 lvi icv	pass			
5	P2240606a-05	+4268 pp11468 lvi icv	pass			
6	P2240606a-06	blank				
7	P2240606a-07	+2154 pp11460 lvi icv rr	pass			
8	P2240606a-08	blank				
9	P2240606a-09	WG1930390-1,42,,			mhg	mhg 6/6
10	P2240606a-10	WG1930390-2,42,,				mhg 6/6
11	P2240606a-11	WG1930390-3,42,,				mhg 6/6
12	P2240606a-12	L2431277-21,42,,,R3A				mhg 6/6
13	P2240606a-13	WG1930179-1,42,,				mhg 6/6
14	P2240606a-14	WG1930179-2,42,,				mhg 6/6
15	P2240606a-15	WG1930179-3,42,,				mhg 6/6
16	P2240606a-16	L2429958-03,42,,				mhg 6/6
17	P2240606a-17	WG1930348-1,42,,				
18	P2240606a-18	WG1930348-2,42,,				
19	P2240606a-19	WG1930348-3,42,,				
20	P2240606a-20	L2430075-09,42,, re				
21	P2240606a-21	L2422662-42,42,,				
22	P2240606a-22	WG1930390-4,42,,				
23	P2240606a-23	WG1930390-5,42,,		V to F23 meo		

Dep.: PCB
Inst: Pest_2
Date: **06/07/24**
Run: a

Method
GC: PCB

Seq: WG1931015
IS: pp11530
LVI

Vial	Data File	Sample	CCAL	notes	screen	initials
1	P2240607a-01	blank				
2	P2240607a-02	+1660 pp11459 lvi icv	15% 5:39 akm			mhg 6/7
3	P2240607a-03	+2154 pp11460 lvi icv				mhg 6/7
4	P2240607a-04	+1248 pp11461 lvi icv				
5	P2240607a-05	+4268 pp11468 lvi icv				
6	P2240607a-06	blank				
7	P2240607a-07	L2430219-01,42,,			mhg	mhg 6/7
8	P2240607a-08	L2430219-02,42,,				mhg 6/7
9	P2240607a-09	L2430219-03,42,,				mhg 6/7
10	P2240607a-10	L2430219-04,42,, p				mhg 6/7
11	P2240607a-11	WG1930604-6,42,, ms				mhg 6/7
12	P2240607a-12	WG1930604-7,42,, msd				mhg 6/7
13	P2240607a-13	L2430219-05,42,,				mhg 6/7
14	P2240607a-14	L2430219-06,42,,				mhg 6/7
15	P2240607a-15	L2430219-07,42,,				mhg 6/7
16	P2240607a-16	L2430219-08,42,,				mhg 6/7
17	P2240607a-17	L2430219-09,42,,				mhg 6/7
18	P2240607a-18	L2430219-10,42,,		V to F18 mhg		mhg 6/7
19	P2240607a-19	WG1930906-1,42,,				mhg 6/7
20	P2240607a-20	WG1930906-2,42,,				mhg 6/7
21	P2240607a-21	WG1930906-3,42,,				mhg 6/7
22	P2240607a-22	L2430308-02,42,,				mhg 6/7
23	P2240607a-23	L2428908-04,42,,				mhg 6/7
24	P2240607a-24	L2428908-05,42,,				mhg 6/7
25	P2240607a-25	L2428908-06,42,,				mhg 6/7
26	P2240607a-26	L2428908-07,42,,				mhg 6/7
27	P2240607a-27	L2428908-08,42,,	low IS rex	V to F27 rmp		

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 18 2024, 03:20 pm

Work Group: WG1930604 for Department: 2 Organic Preparation

Created: 06-JUN-24 Due: Operator: JRS

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2430117-01	MW-1	S	NYTCL-8082-LVI	WATER	DONE	U	0529	0607	S0	Amber-A.120
L2430117-02	MW-2	S	NYTCL-8082-LVI	WATER	DONE	U	0529	0607	S0	Amber-A.120
L2430117-04	MW-4	S	NYTCL-8082-LVI	WATER	DONE	U	0529	0607	S0	Amber-A.120
L2430117-05	DUP	S	NYTCL-8082-LVI	WATER	DONE	U	0529	0607	S0	Amber-A.120
L2430117-06	EB	S	NYTCL-8082-LVI	WATER	DONE	U	0529	0607	S0	Amber-A.120
L2430219-01	MW-1S	S	NYTCL-8082-LVI	WATER	DONE	U	0530	0607	S0	Amber-A.120
L2430219-02	MW-2S	S	NYTCL-8082-LVI	WATER	DONE	U	0530	0607	S0	Amber-A.120
L2430219-03	MW-3S	S	NYTCL-8082-LVI	WATER	DONE	U	0530	0607	S0	Amber-A.120
L2430219-04	MW-4D	S	NYTCL-8082-LVI	WATER	DONE	U	0530	0607	S0	Amber-A.120
L2430219-05	MW-5S	S	NYTCL-8082-LVI	WATER	DONE	U	0530	0607	S0	Amber-A.120
L2430219-06	MW-6D	S	NYTCL-8082-LVI	WATER	DONE	U	0530	0607	S0	Amber-A.120
L2430219-07	MW-7S	S	NYTCL-8082-LVI	WATER	DONE	U	0530	0607	S0	Amber-A.120
L2430219-08	MW-8S	S	NYTCL-8082-LVI	WATER	DONE	U	0530	0607	S0	Amber-A.120
L2430219-09	DUP	S	NYTCL-8082-LVI	WATER	DONE	U	0530	0607	S0	Amber-A.120
L2430219-10	FB	S	NYTCL-8082-LVI	WATER	DONE	U	0530	0607	S0	Amber-A.120
L2430572-01	FIELD BLANK SEABURY	S	NYTCL-8082-LVI	WATER	DONE	U	0603	0610	S0	Amber-A.120
L2430960-07	FB-01_20240604	S	NYTCL-8082-LVI	WATER	DONE	U	0604	0610	S0	Amber-A.120
WG1930604-1	Laboratory Method Bl	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1930604-2	Laboratory Control S	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1930604-3	LCS Duplicate	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1930604-4	Matrix Spike	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1930604-5	Matrix Spike Duplica	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1930604-6	Matrix Spike	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1930604-7	Matrix Spike Duplica	S	NYTCL-8082-LVI	WATER	DONE	U				

Comments:

WG1930604-3	WG1930604-2
WG1930604-4	L2430117-03
WG1930604-5	L2430117-03
WG1930604-6	L2430219-04
WG1930604-7	L2430219-04

ORGANIC ELN REPORT

Workgroup: WG1930604

Prep Method: EPA 3510C
Solvent Type: DCM — **Lot #:** EI560
Surrogate Type: Pesticide/PCB — **Lot #:** pp11564ad,10/30/2024,7c,6,1
Spike Type: PCB — **Lot #:** PP11557ad,09/11/2024,6l,5,1
Spike Verify by: MAD/JRS
Lims Spikelot: PCB-LVI

Additional Reagents/Stds

Na2SO4	23L0461008

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Hexane
Lot #: EI042

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1: EPA 3665A
Cleanup Method 2:
Solvent Type: Hexane — **Lot #:** EI042

Additional Reagents/Stds

H2SO4	20240305087

Cleanup 2

Cleanup Method 1: EPA 3660B
Cleanup Method 2:
Solvent Type: Hexane — **Lot #:** EI042

Additional Reagents/Stds

Copper	2401CPG001

Cleanup 3

Cleanup Method 1:
Solvent Type: — **Lot #:**

Additional Reagents/Stds

Cleanup 4

Cleanup Method 1:
Solvent Type: — **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2430117-01 SAMP	06/06/24 10:25	Michael Daring	140	>5,<9	.1		06/06/24 14:49	Kwame Mensah	5	D / A / #1
L2430117-02 SAMP	06/06/24 10:25	Michael Daring	140	>5,<9	.1		06/06/24 14:49	Kwame Mensah	5	D / A / #1
L2430117-03 SAMP	06/06/24 10:25	Michael Daring	140	>5,<9	.1		06/06/24 14:49	Kwame Mensah	5	D / A / #1
L2430117-04 SAMP	06/06/24 10:25	Michael Daring	140	>5,<9	.1		06/06/24 14:49	Kwame Mensah	5	D / A / #1
L2430117-05 SAMP	06/06/24 10:25	Michael Daring	140	>5,<9	.1		06/06/24 14:49	Kwame Mensah	5	D / A / #1

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ORGANIC ELN REPORT

Workgroup: WG1930604

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2430117-06 SAMP	06/06/24 10:25	Michael Daring	140	>5,<9	.1		06/06/24 14:49	Kwame Mensah	5	D / A / #1
L2430219-01 SAMP	06/06/24 14:02	Amanda Patterson	140	>5, <9	.1		06/07/24 01:20	Michael Ampaabeng	5	D / A / #1
L2430219-02 SAMP	06/06/24 14:02	Amanda Patterson	140	>5, <9	.1		06/07/24 01:20	Michael Ampaabeng	5	D / A / #1
L2430219-03 SAMP	06/06/24 14:02	Amanda Patterson	140	>5, <9	.1		06/07/24 01:20	Michael Ampaabeng	5	D / A / #1
L2430219-04 SAMP	06/06/24 14:02	Amanda Patterson	140	>5, <9	.1		06/07/24 01:20	Michael Ampaabeng	5	D / A / #1
L2430219-05 SAMP	06/06/24 14:02	Amanda Patterson	140	>5, <9	.1		06/07/24 01:20	Michael Ampaabeng	5	D / A / #1
L2430219-06 SAMP	06/06/24 14:02	Amanda Patterson	140	>5, <9	.1		06/07/24 01:20	Michael Ampaabeng	5	D / A / #1
L2430219-07 SAMP	06/06/24 14:02	Amanda Patterson	140	>5, <9	.1		06/07/24 01:20	Michael Ampaabeng	5	D / A / #1

ORGANIC ELN REPORT

Workgroup: WG1930604

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2430219-08 SAMP	06/06/24 14:02	Amanda Patterson	140	>5, <9	.1		06/07/24 01:20	Michael Ampaabeng	5	D / A / #1
L2430219-09 SAMP	06/06/24 14:02	Amanda Patterson	140	>5, <9	.1		06/07/24 01:20	Michael Ampaabeng	5	D / A / #1
L2430219-10 SAMP	06/06/24 14:02	Amanda Patterson	140	>5, <9	.1		06/07/24 01:20	Michael Ampaabeng	5	D / A / #1
L2430572-01 SAMP	06/07/24 04:48	Francis Mbro-Menyah	140	>5, <9	.1		06/07/24 10:24	Kristina Arsenault	5	H / K / #3
L2430960-07 WATER	06/07/24 04:48	Francis Mbro-Menyah	140	>5, <9	.1		06/07/24 10:24	Kristina Arsenault	5	H / K / #3
WG1930604-1 BLANK	06/06/24 10:25	Michael Daring	140	>5,<9	.1		06/06/24 14:49	Kwame Mensah	5	D / A / #1
WG1930604-2 LCS	06/06/24 10:25	Michael Daring	140	>5,<9	.1	.1	06/06/24 14:49	Kwame Mensah	5	D / A / #1
WG1930604-3 LCSD	06/06/24 10:25	Michael Daring	140	>5,<9	.1	.1	06/06/24 16:54	Kwasi Siriboe	5	H&K,N #3
WG1930604-4 MS	06/06/24 10:25	Michael Daring	140	>5,<9	.1	.1	06/06/24 14:49	Kwame Mensah	5	D / A / #1

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ORGANIC ELN REPORT

Workgroup: WG1930604

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1930604-5 MSD	06/06/24 10:25	Michael Daring	140	>5,<9	.1	.1	06/06/24 16:54	Kwasi Siriboe	5	H&K,N #3
	SAMPLE LOST IN EXTRACTION 2ND AMBER USED									
WG1930604-6 MS	06/06/24 14:02	Amanda Patterson	140	>5, <9	.1	.1	06/07/24 01:20	Michael Ampaabeng	5	D / A / #1
WG1930604-7 MSD	06/06/24 14:02	Amanda Patterson	140	>5, <9	.1	.1	06/07/24 01:20	Michael Ampaabeng	5	D / A / #1

ORGANIC ELN REPORT

Workgroup: WG1930604

Sample/ Type	Cleanup 1				Cleanup 2	
	Cleanup Date	Analyst	Pest Aliquot **ml**	Pest Final **ml**	Cleanup Date	Analyst
L2430117-01 SAMP	06/06/24 19:15	Daniel Erhagbai	5	1	06/06/24 22:57	Emelia Asabere
L2430117-02 SAMP	06/06/24 19:15	Daniel Erhagbai	5	1	06/06/24 22:57	Emelia Asabere
L2430117-03 SAMP	06/06/24 19:15	Daniel Erhagbai	5	1	06/06/24 22:57	Emelia Asabere
L2430117-04 SAMP	06/06/24 19:15	Daniel Erhagbai	5	1	06/06/24 22:57	Emelia Asabere
L2430117-05 SAMP	06/06/24 19:15	Daniel Erhagbai	5	1	06/06/24 22:57	Emelia Asabere
L2430117-06 SAMP	06/06/24 19:15	Daniel Erhagbai	5	1	06/06/24 22:57	Emelia Asabere
L2430219-01 SAMP	06/07/24 02:07	Annabella Sarfo	5	1	06/07/24 07:54	Helen Amankwah
L2430219-02 SAMP	06/07/24 02:07	Annabella Sarfo	5	1	06/07/24 07:54	Helen Amankwah
L2430219-03 SAMP	06/07/24 02:07	Annabella Sarfo	5	1	06/07/24 07:54	Helen Amankwah
L2430219-04 SAMP	06/07/24 02:07	Annabella Sarfo	5	1	06/07/24 07:54	Helen Amankwah
L2430219-05 SAMP	06/07/24 02:07	Annabella Sarfo	5	1	06/07/24 07:54	Helen Amankwah

ORGANIC ELN REPORT

Workgroup: WG1930604

Sample/ Type	Cleanup 1				Cleanup 2	
	Cleanup Date	Analyst	Pest Aliquot **ml**	Pest Final **ml**	Cleanup Date	Analyst
L2430219-06 SAMP	06/07/24 02:07	Annabella Sarfo	5	1	06/07/24 07:54	Helen Amankwah
L2430219-07 SAMP	06/07/24 02:07	Annabella Sarfo	5	1	06/07/24 07:54	Helen Amankwah
L2430219-08 SAMP	06/07/24 02:07	Annabella Sarfo	5	1	06/07/24 07:54	Helen Amankwah
L2430219-09 SAMP	06/07/24 02:07	Annabella Sarfo	5	1	06/07/24 07:54	Helen Amankwah
L2430219-10 SAMP	06/07/24 02:07	Annabella Sarfo	5	1	06/07/24 07:54	Helen Amankwah
L2430572-01 SAMP	06/07/24 10:38	Georgia Mckinstry	5	1	06/07/24 12:49	Kristina Arsenault
L2430960-07 WATER	06/07/24 10:38	Georgia Mckinstry	5	1	06/07/24 12:49	Kristina Arsenault
WG1930604-1 BLANK	06/06/24 19:15	Daniel Erhagbai	5	1	06/06/24 22:57	Emelia Asabere
WG1930604-2 LCS	06/06/24 19:15	Daniel Erhagbai	5	1	06/06/24 22:57	Emelia Asabere
WG1930604-3 LCSD	06/06/24 19:15	Daniel Erhagbai	5	1	06/06/24 22:57	Emelia Asabere
WG1930604-4 MS	06/06/24 19:15	Daniel Erhagbai	5	1	06/06/24 22:57	Emelia Asabere

ORGANIC ELN REPORT

Workgroup: WG1930604

Sample/ Type	Cleanup 1				Cleanup 2	
	Cleanup Date	Analyst	Pest Aliquot **ml**	Pest Final **ml**	Cleanup Date	Analyst
WG1930604-5 MSD	06/06/24 19:15	Daniel Erhagbai	5	1	06/06/24 22:57	Emelia Asabere
WG1930604-6 MS	06/07/24 02:07	Annabella Sarfo	5	1	06/07/24 07:54	Helen Amankwah
WG1930604-7 MSD	06/07/24 02:07	Annabella Sarfo	5	1	06/07/24 07:54	Helen Amankwah

GC Extractable Analysis
Pesticides

Pesticide QC Summary

Surrogate Recovery Summary
Form 2
Pesticides

Client: Alpha Geoscience
Project Name: HUNTINGTON READY MIXED

Lab Number: L2430219
Project Number: 20116
Matrix: Water

GC Column 1: CLPPesticides
GC Column 2: CLPPesticidesII

CLIENT ID (LAB SAMPLE NO.)	TCX 1 %REC	TCX 2 %REC	DCB 1 %REC	DCB 2 %REC	OTHER (1)	OTHER (2)	TOT OUT
MW-1S (L2430219-01)	56	53	53	54			0
MW-2S (L2430219-02)	72	70	75	73			0
MW-3S (L2430219-03)	72	66	77	69			0
MW-4D (L2430219-04)	67	67	77	73			0
MW-5S (L2430219-05)	65	63	71	69			0
MW-6D (L2430219-06)	66	64	62	64			0
MW-7S (L2430219-07)	74	74	80	80			0
MW-8S (L2430219-08)	61	59	61	64			0
DUP (L2430219-09)	79	77	78	83			0
FB (L2430219-10)	68	65	51	48			0
WG1929733-1BLANK	71	68	79	72			0
WG1929733-2LCS	65	65	70	67			0
WG1929733-3LCSD	65	65	77	74			0
MW-4DMS	61	62	72	69			0
MW-4DMSD	63	65	69	69			0

QC LIMITS
(30-150) TCX = 2,4,5,6-TETRACHLORO-M-XYLENE
(30-150) DCBP = DECACHLOROBIPHENYL

*** Values outside of QC limits**

Laboratory Control Sample Summary
Form 3
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1929733-2 **Analysis Date** : 06/05/24 22:27	**File ID**	: 20240605b-17
LCSD Sample ID	: WG1929733-3 **Analysis Date** : 06/05/24 22:40	**File ID**	: 20240605b-18

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Delta-BHC	0.357	0.285	80	0.357	0.272	76	5	30-150	20
Lindane	0.357	0.248	69	0.357	0.246	69	1	30-150	20
Alpha-BHC	0.357	0.257	72	0.357	0.259	73	1	30-150	20
Beta-BHC	0.357	0.298	83	0.357	0.294	82	1	30-150	20
Heptachlor	0.357	0.235	66	0.357	0.232	65	1	30-150	20
Aldrin	0.357	0.232	65	0.357	0.230	64	1	30-150	20
Heptachlor epoxide	0.357	0.229	64	0.357	0.232	65	1	30-150	20
Endrin	0.357	0.242	68	0.357	0.246	69	2	30-150	20
Endrin aldehyde	0.357	0.244	68	0.357	0.219	61	11	30-150	20
Endrin ketone	0.357	0.221	62	0.357	0.311	87	34 Q	30-150	20
Dieldrin	0.357	0.255	71	0.357	0.261	73	2	30-150	20
4,4'-DDE	0.357	0.240	67	0.357	0.249	70	4	30-150	20
4,4'-DDD	0.357	0.275	77	0.357	0.302	85	9	30-150	20
4,4'-DDT	0.357	0.265	74	0.357	0.274	77	3	30-150	20
Endosulfan I	0.357	0.226	63	0.357	0.230	64	2	30-150	20
Endosulfan II	0.357	0.218	61	0.357	0.254	71	15	30-150	20
Endosulfan sulfate	0.357	0.326	91	0.357	0.285	80	13	30-150	20
Methoxychlor	0.357	0.295	83	0.357	0.314	88	6	30-150	20
cis-Chlordane	0.357	0.209	59	0.357	0.224	63	7	30-150	20
trans-Chlordane	0.357	0.274	77	0.357	0.269	75	2	30-150	20

Matrix Spike Sample Summary
Form 3
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2430219-04	**Analysis Date**	: 06/05/24 23:04
Matrix Spike	: WG1929733-4	**MS Analysis Date**	: 06/05/24 23:17
Matrix Spike Dup	: WG1929733-5	**MSD Analysis Date**	: 06/05/24 23:29

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
trans-Chlordane	ND	0.357	0.261	73	0.357	0.265	74	2	30-150	30

Matrix Spike Sample Summary
Form 3
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2430219-04	**Analysis Date**	: 06/05/24 23:04
Matrix Spike	: WG1929733-4	**MS Analysis Date**	: 06/05/24 23:17
Matrix Spike Dup	: WG1929733-5	**MSD Analysis Date**	: 06/05/24 23:29

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Delta-BHC	ND	0.357	0.260	73	0.357	0.270	76	4	30-150	30
Lindane	ND	0.357	0.240	67	0.357	0.243	68	1	30-150	30
Alpha-BHC	ND	0.357	0.255	71	0.357	0.256	72	0	30-150	30
Beta-BHC	ND	0.357	0.289	81	0.357	0.284	80	2	30-150	30
Heptachlor	ND	0.357	0.228	64	0.357	0.229	64	0	30-150	30
Aldrin	ND	0.357	0.223	62	0.357	0.225	63	1	30-150	30
Heptachlor epoxide	ND	0.357	0.228	64	0.357	0.228	64	0	30-150	30
Endrin	ND	0.357	0.239	67	0.357	0.240	67	0	30-150	30
Endrin aldehyde	ND	0.357	0.235	66	0.357	0.233	65	1	30-150	30
Endrin ketone	ND	0.357	0.312	87	0.357	0.302	85	3	30-150	30
Dieldrin	ND	0.357	0.255	71	0.357	0.253	71	1	30-150	30
4,4'-DDE	ND	0.357	0.245	69	0.357	0.244	68	0	30-150	30
4,4'-DDD	ND	0.357	0.291	82	0.357	0.293	82	1	30-150	30
4,4'-DDT	ND	0.357	0.266	74	0.357	0.267	75	0	30-150	30
Endosulfan I	ND	0.357	0.226	63	0.357	0.225	63	0	30-150	30
Endosulfan II	ND	0.357	0.251	70	0.357	0.252	71	0	30-150	30
Endosulfan sulfate	ND	0.357	0.278	78	0.357	0.281	79	1	30-150	30
Methoxychlor	ND	0.357	0.305	85	0.357	0.310	87	2	30-150	30
cis-Chlordane	ND	0.357	0.213	60	0.357	0.216	60	1	30-150	30

Method Blank Summary
Form 4
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab Sample ID	: WG1929733-1	**Lab File ID**	: 20240605b-16
Matrix	: WATER	**Extraction Date**	: 06/05/24
Analysis Date (1)	: 06/05/24 22:15	**Analysis Date (2)**	: 06/05/24 22:15
Instrument ID (1)	: PEST20	**Instrument ID (2)**	: PEST20

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1929733-2LCS	WG1929733-2	06/05/24 22:27	06/05/24 22:27
WG1929733-3LCSD	WG1929733-3	06/05/24 22:40	06/05/24 22:40
MW-4D	L2430219-04	06/05/24 23:04	06/05/24 23:04
MW-4DMS	WG1929733-4	06/05/24 23:17	06/05/24 23:17
MW-4DMSD	WG1929733-5	06/05/24 23:29	06/05/24 23:29
MW-1S	L2430219-01	06/05/24 23:42	06/05/24 23:42
MW-2S	L2430219-02	06/05/24 23:54	06/05/24 23:54
MW-3S	L2430219-03	06/06/24 00:07	06/06/24 00:07
MW-5S	L2430219-05	06/06/24 00:19	06/06/24 00:19
MW-6D	L2430219-06	06/06/24 00:31	06/06/24 00:31
MW-7S	L2430219-07	06/06/24 00:44	06/06/24 00:44
MW-8S	L2430219-08	06/06/24 00:56	06/06/24 00:56
DUP	L2430219-09	06/06/24 01:09	06/06/24 01:09
FB	L2430219-10	06/06/24 01:21	06/06/24 01:21

Analytical Sequence
Form 8b
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: PEST20	**Initial Calib. Date(s)**	: 05/14/24 05/14/24

Client ID	Lab ID	Date/Time Analyzed
R1830037-1 PEM	R1830037-1	05/14/24 16:45
Pesticides L1 (0.5ug/L)	R1830037-2	05/14/24 16:57
Pesticides L2 (1.0ug/L)	R1830037-3	05/14/24 17:10
Pesticides L3 (2.0ug/L)	R1830037-4	05/14/24 17:22
Pesticides L4 (3.0ug/L)	R1830037-5	05/14/24 17:35
Pesticides L5 (4.0ug/L)	R1830037-6	05/14/24 17:47
Pesticides L7 (10.0ug/L)	R1830037-7	05/14/24 17:59
Pesticides L8 (50.0ug/L)	R1830037-8	05/14/24 18:12
Pesticides L9 (100ug/L)	R1830037-9	05/14/24 18:24
Pesticides L10 (200ug/L)	R1830037-10	05/14/24 18:37
Pesticides L11 (400ug/L)	R1830037-11	05/14/24 18:49
R1830037-12 ICV	R1830037-12	05/14/24 19:02
Chlordane L3 (10ug/L)	R1830037-13	05/14/24 19:14
Chlordane L4 (20ug/L)	R1830037-14	05/14/24 19:26
Chlordane L5 (100ug/L)	R1830037-15	05/14/24 19:39
Chlordane L7 (500ug/L)	R1830037-16	05/14/24 19:51
Chlordane L8 (1000ug/L)	R1830037-17	05/14/24 20:04
Chlordane L9 (2000ug/L)	R1830037-18	05/14/24 20:16
Chlordane L10 (5000ug/L)	R1830037-19	05/14/24 20:29
R1830037-20 ICV	R1830037-20	05/14/24 20:41
Toxaphene L3 (20.0ug/L)	R1830037-21	05/14/24 20:53
Toxaphene L4 (100ug/L)	R1830037-22	05/14/24 21:06
Toxaphene L7 (1000ug/L)	R1830037-23	05/14/24 21:18
Toxaphene L8 (2000ug/L)	R1830037-24	05/14/24 21:31
Toxaphene L9 (5000ug/L)	R1830037-25	05/14/24 21:43
R1830037-26 ICV	R1830037-26	05/14/24 21:56
R1837623-1 PEM	R1837623-1	06/05/24 18:45
WG1930283-1 CCAL	WG1930283-1	06/05/24 18:58
WG1930283-2 CCAL	WG1930283-2	06/05/24 19:10
WG1930283-3 CCAL	WG1930283-3	06/05/24 19:23
WG1929733-1 BLANK	WG1929733-1	06/05/24 22:15
WG1929733-2 LCS	WG1929733-2	06/05/24 22:27
WG1929733-3 LCSD	WG1929733-3	06/05/24 22:40
MW-4D	L2430219-04	06/05/24 23:04
MW-4D MS	WG1929733-4	06/05/24 23:17
MW-4D MSD	WG1929733-5	06/05/24 23:29
MW-1S	L2430219-01	06/05/24 23:42
MW-2S	L2430219-02	06/05/24 23:54
MW-3S	L2430219-03	06/06/24 00:07
MW-5S	L2430219-05	06/06/24 00:19
MW-6D	L2430219-06	06/06/24 00:31
MW-7S	L2430219-07	06/06/24 00:44

Analytical Sequence
Form 8b
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: PEST20	**Initial Calib. Date(s)**	: 05/14/24 05/14/24

Client ID	Lab ID	Date/Time Analyzed
MW-8S	L2430219-08	06/06/24 00:56
DUP	L2430219-09	06/06/24 01:09
FB	L2430219-10	06/06/24 01:21

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

Pesticides - EPA 8081B (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	1.6008	0.31349	ug/kg	30-150	30	30-150	50	50			
Lindane	58-89-9	0.667	0.298149	ug/kg	30-150	30	30-150	50	50			
Alpha-BHC	319-84-6	0.667	0.189428	ug/kg	30-150	30	30-150	50	50			
Beta-BHC	319-85-7	1.6008	0.60697	ug/kg	30-150	30	30-150	50	50			
Heptachlor	76-44-8	0.8004	0.358846	ug/kg	30-150	30	30-150	50	50			
Aldrin	309-00-2	1.6008	0.563615	ug/kg	30-150	30	30-150	50	50			
Heptachlor epoxide	1024-57-3	3.0015	0.90045	ug/kg	30-150	30	30-150	50	50			
Endrin	72-20-8	0.667	0.27347	ug/kg	30-150	30	30-150	50	50			
Endrin aldehyde	7421-93-4	2.001	0.70035	ug/kg	30-150	30	30-150	50	50			
Endrin ketone	53494-70-5	1.6008	0.412206	ug/kg	30-150	30	30-150	50	50			
Dieldrin	60-57-1	1.0005	0.50025	ug/kg	30-150	30	30-150	50	50			
4,4'-DDE	72-55-9	1.6008	0.370185	ug/kg	30-150	30	30-150	50	50			
4,4'-DDD	72-54-8	1.6008	0.570952	ug/kg	30-150	30	30-150	50	50			
4,4'-DDT	50-29-3	3.0015	1.28731	ug/kg	30-150	30	30-150	50	50			
Endosulfan I	959-98-8	1.6008	0.378189	ug/kg	30-150	30	30-150	50	50			
Endosulfan II	33213-65-9	1.6008	0.534934	ug/kg	30-150	30	30-150	50	50			
Endosulfan sulfate	1031-07-8	0.667	0.317492	ug/kg	30-150	30	30-150	50	50			
Methoxychlor	72-43-5	3.0015	0.9338	ug/kg	30-150	30	30-150	50	50			
Toxaphene	8001-35-2	30.015	8.4042	ug/kg	30-150	30	30-150	50	50			
Chlordane	57-74-9	13.34	5.30265	ug/kg	30-150	30	30-150	50	50			
cis-Chlordane	5103-71-9	2.001	0.557612	ug/kg	30-150	30	30-150	50	50			
trans-Chlordane	5103-74-2	2.001	0.528264	ug/kg	30-150	30	30-150	50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

Pesticides - EPA 8081B (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 120ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	0.02	0.00467	ug/l	30-150	20	30-150	30	30			
Lindane	58-89-9	0.02	0.00434	ug/l	30-150	20	30-150	30	30			
Alpha-BHC	319-84-6	0.02	0.00439	ug/l	30-150	20	30-150	30	30			
Beta-BHC	319-85-7	0.02	0.0056	ug/l	30-150	20	30-150	30	30			
Heptachlor	76-44-8	0.02	0.0031	ug/l	30-150	20	30-150	30	30			
Aldrin	309-00-2	0.02	0.00216	ug/l	30-150	20	30-150	30	30			
Heptachlor epoxide	1024-57-3	0.02	0.00415	ug/l	30-150	20	30-150	30	30			
Endrin	72-20-8	0.04	0.00429	ug/l	30-150	20	30-150	30	30			
Endrin aldehyde	7421-93-4	0.04	0.0081	ug/l	30-150	20	30-150	30	30			
Endrin ketone	53494-70-5	0.04	0.00477	ug/l	30-150	20	30-150	30	30			
Dieldrin	60-57-1	0.04	0.00429	ug/l	30-150	20	30-150	30	30			
4,4'-DDE	72-55-9	0.04	0.00381	ug/l	30-150	20	30-150	30	30			
4,4'-DDD	72-54-8	0.04	0.00464	ug/l	30-150	20	30-150	30	30			
4,4'-DDT	50-29-3	0.04	0.00432	ug/l	30-150	20	30-150	30	30			
Endosulfan I	959-98-8	0.02	0.00345	ug/l	30-150	20	30-150	30	30			
Endosulfan II	33213-65-9	0.04	0.00519	ug/l	30-150	20	30-150	30	30			
Endosulfan sulfate	1031-07-8	0.04	0.00481	ug/l	30-150	20	30-150	30	30			
Methoxychlor	72-43-5	0.2	0.00684	ug/l	30-150	20	30-150	30	30			
Toxaphene	8001-35-2	0.2	0.0627	ug/l	30-150	20	30-150	30	30			
Chlordane	57-74-9	0.2	0.0463	ug/l	40-140	20	30-150	30	30			
cis-Chlordane	5103-71-9	0.02	0.00666	ug/l	30-150	20	30-150	30	30			
trans-Chlordane	5103-74-2	0.02	0.00627	ug/l	30-150	20	30-150	30	30			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Pesticide Sample Data

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 23:42
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-23	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 23:42
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-23	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 23:54
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-24	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 23:54
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-24	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 00:07
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-25	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 00:07
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-25	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 23:04
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-20	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 23:04
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-20	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticidesII
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 00:19
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-26	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 00:19
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-26	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 00:31
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-27	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 00:31
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-27	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 00:44
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-28	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 00:44
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-28	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 00:56
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-29	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 00:56
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-29	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 01:09
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-30	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 01:09
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-30	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-10	**Date Collected**	: 05/30/24 14:25
Client ID	: FB	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 01:21
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-31	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-10	**Date Collected**	: 05/30/24 14:25
Client ID	: FB	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 01:21
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-31	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1929733-1	**Date Collected**	: NA
Client ID	: WG1929733-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/05/24 22:15
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-16	**Analyst**	: EJL
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1929733-1	**Date Collected**	: NA
Client ID	: WG1929733-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/05/24 22:15
Sample Matrix	: WATER	**Date Extracted**	: 06/05/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 20240605b-16	**Analyst**	: EJL
Sample Amount	: 140 ml	**Instrument ID**	: PEST20
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-20.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 23:04
Operator : pest20:jag
Sample : L2430219-04,42,, p
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:50:33 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240605b\20240605b-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.883	1.925	60519887	94091666	25.000M4	25.000M4
	Standard Area 1 : #1 = 60467879				Recovery = 100.09%		
	Standard Area 1 : #2 = 94939114				Recovery = 99.11%		
28) i	1-br-2-nb_Ch	1.883	1.925	60519887	94091666	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.883	1.925	60519887	94091666	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.348	2.519	93541017	139.7E6	33.589M4	33.463M3
	Spiked Amount 50.000	Range 30 - 150			Recovery = 67.18%		66.93%
27) s	Decachlorobi	7.222	7.777	93666675	121.7E6	38.601M3	36.628
	Spiked Amount 50.000	Range 30 - 150			Recovery = 77.20%		73.26%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-20.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 23:04
Operator : pest20:jag
Sample : L2430219-04,42,, p
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:50:33 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240605b\20240605b-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

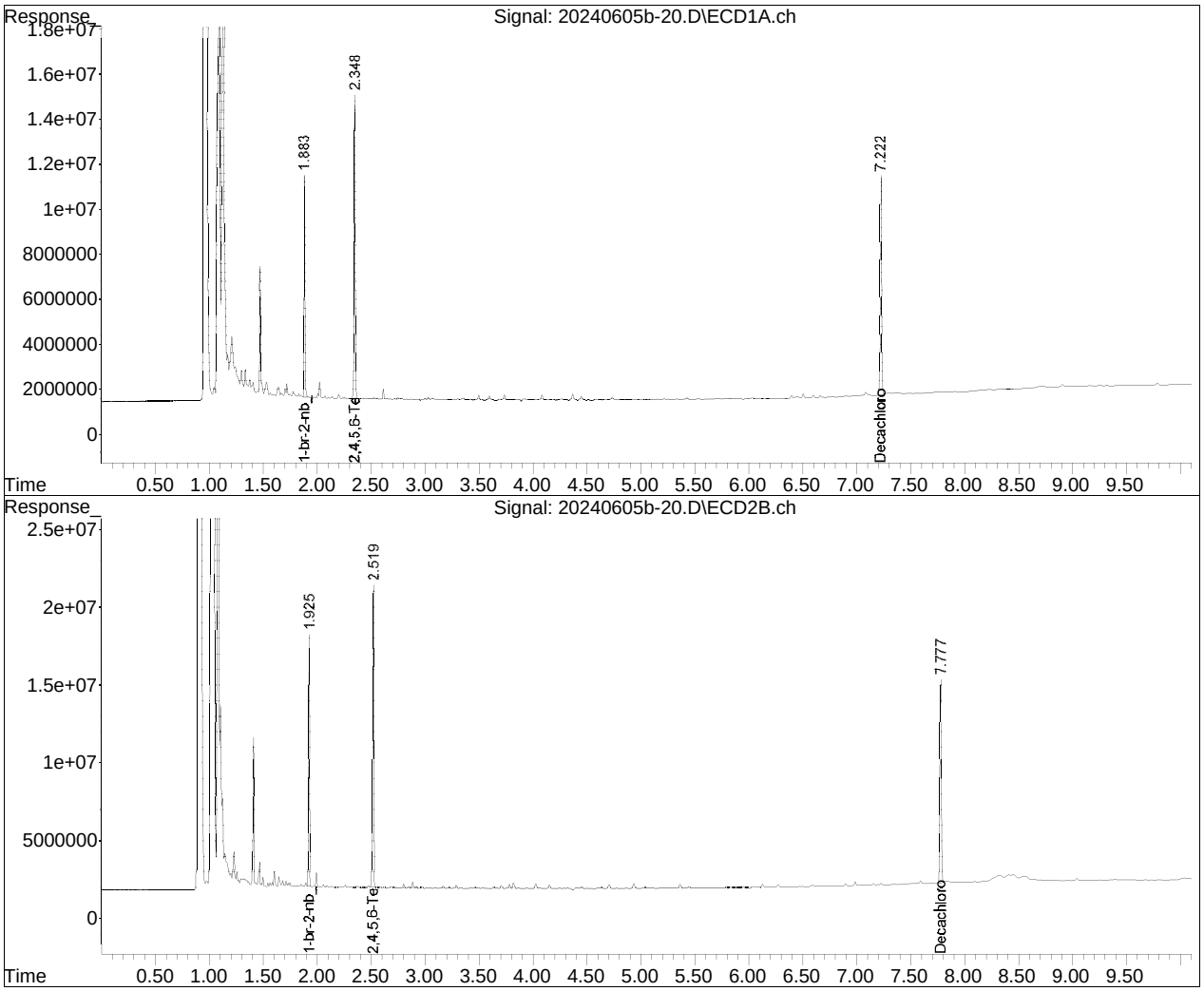
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedb\20240605b-03.D•

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-20.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 23:04
Operator : pest20:jag
Sample : L2430219-04,42,, p
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:50:33 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

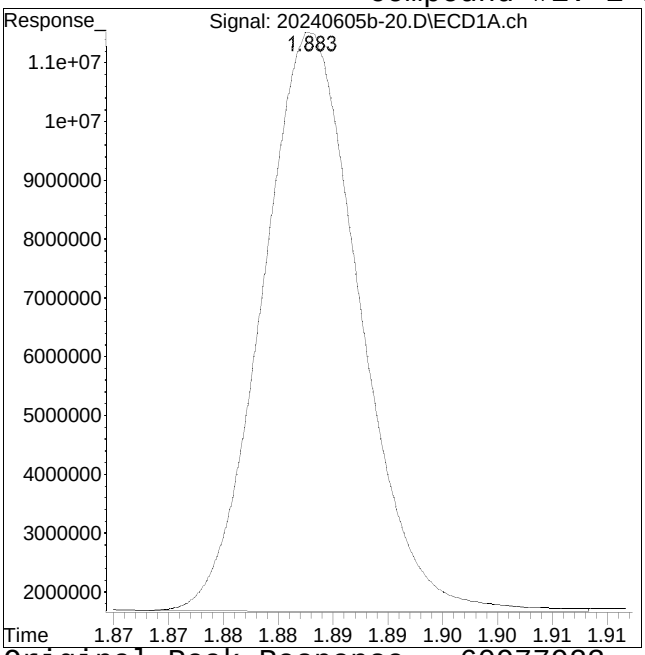
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



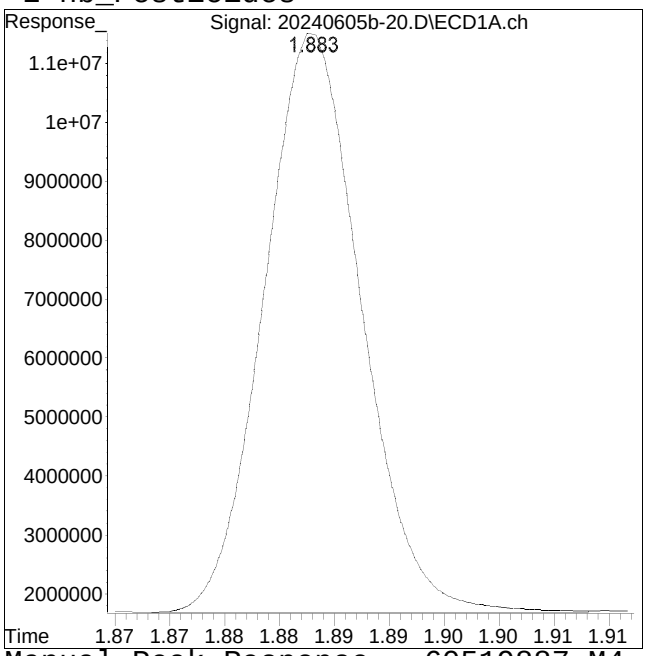
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-20.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:04 Instrument : PEST 20
Sample : L2430219-04,42,, p Quant Date : 6/6/2024 5:50 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 60977923



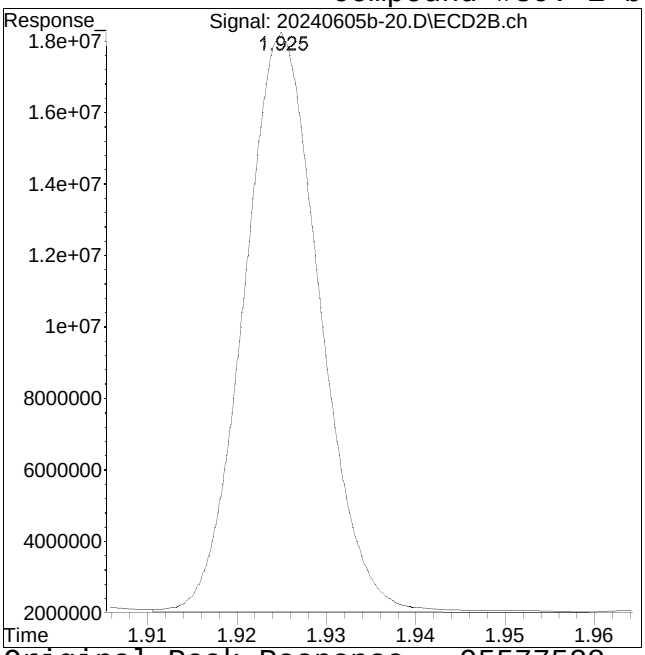
Manual Peak Response = 60519887 M4

M4 = Poor automated baseline construction.

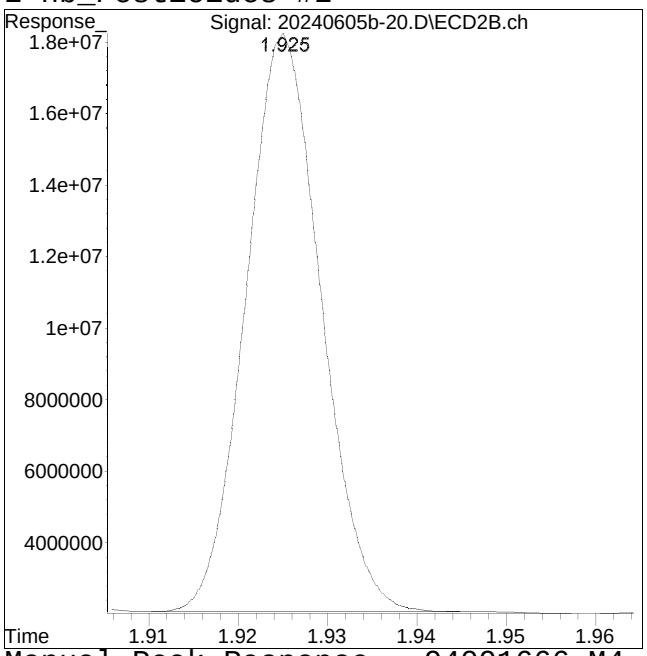
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-20.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:04 Instrument : PEST 20
Sample : L2430219-04,42,, p Quant Date : 6/6/2024 5:50 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 95577528



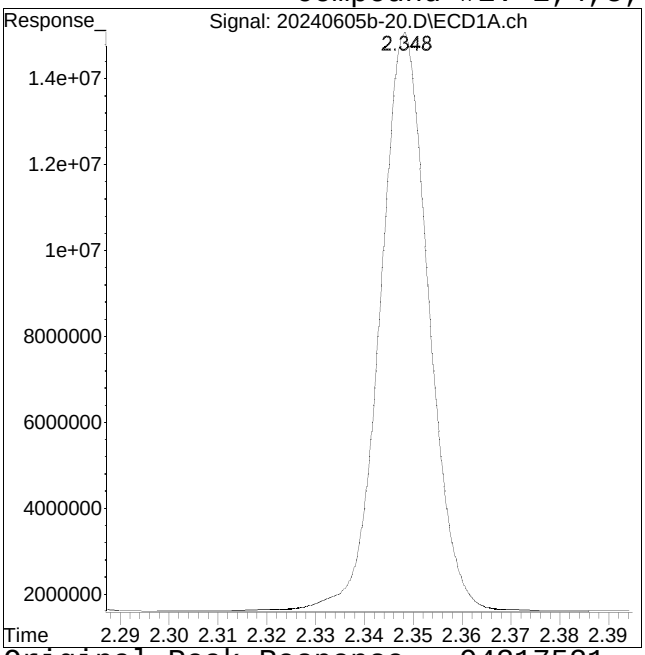
Manual Peak Response = 94091666 M4

M4 = Poor automated baseline construction.

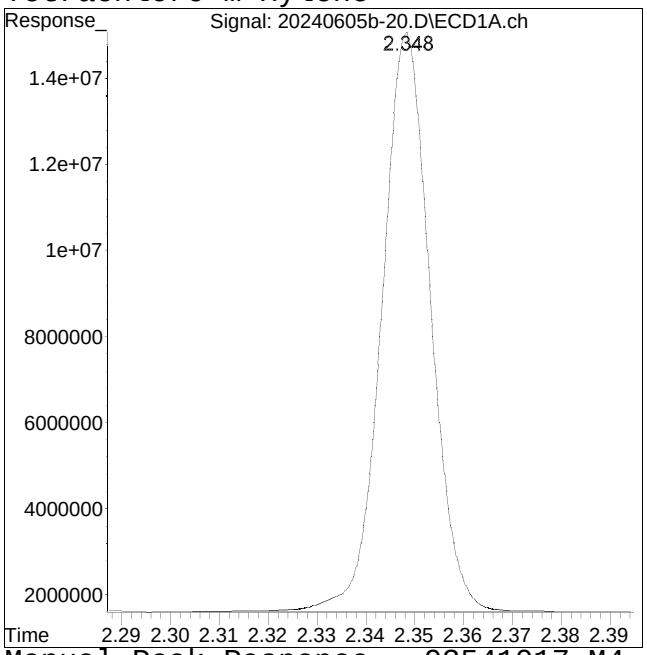
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-20.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:04 Instrument : PEST 20
Sample : L2430219-04,42,, p Quant Date : 6/6/2024 5:50 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 94317521



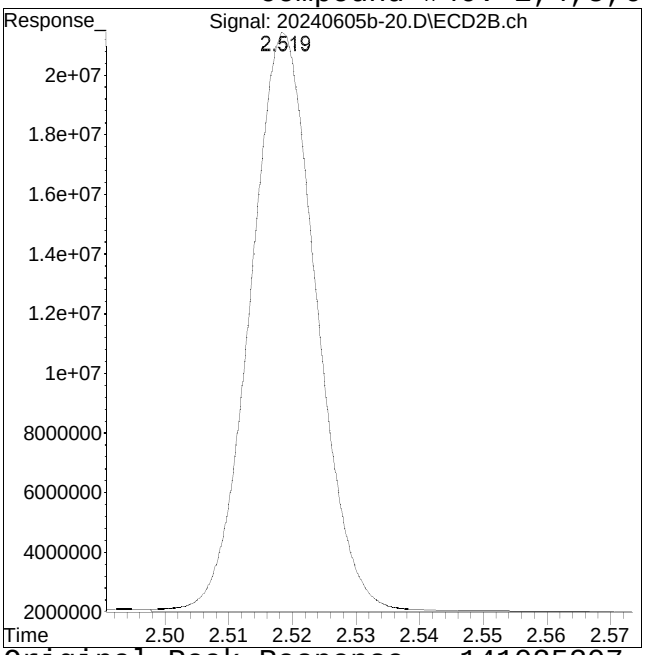
Manual Peak Response = 93541017 M4

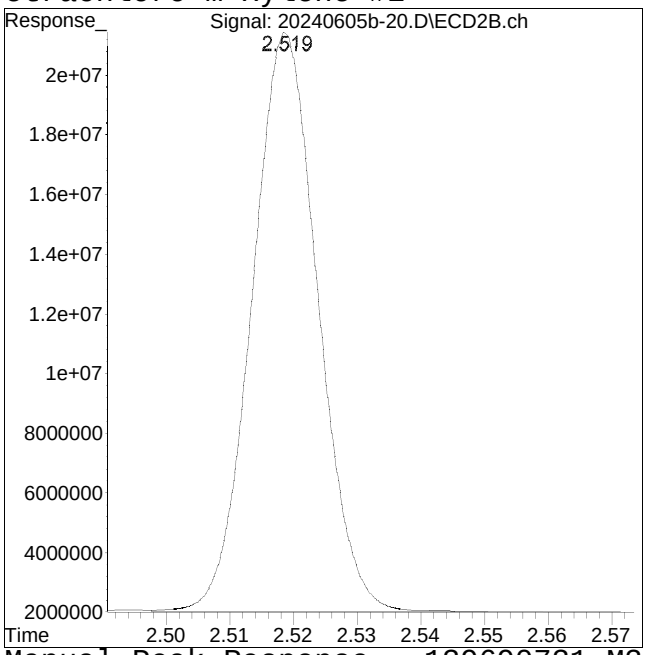
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-20.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:04 Instrument : PEST 20
Sample : L2430219-04,42,, p Quant Date : 6/6/2024 5:50 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



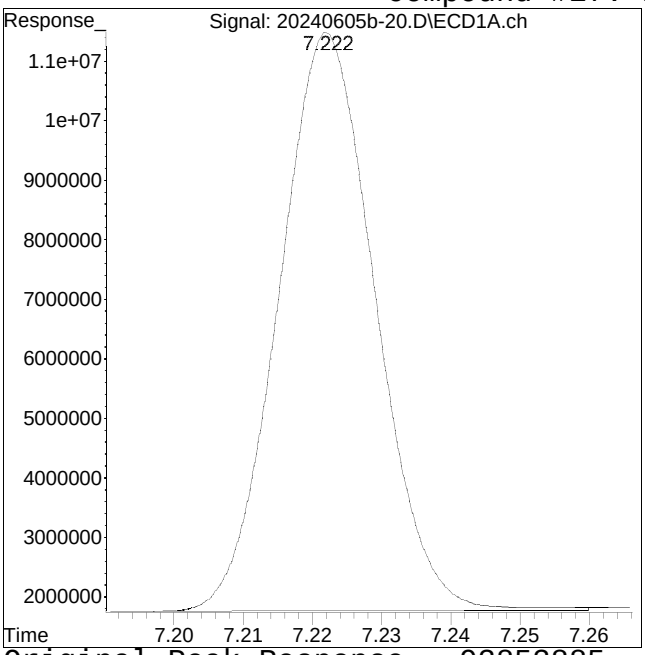


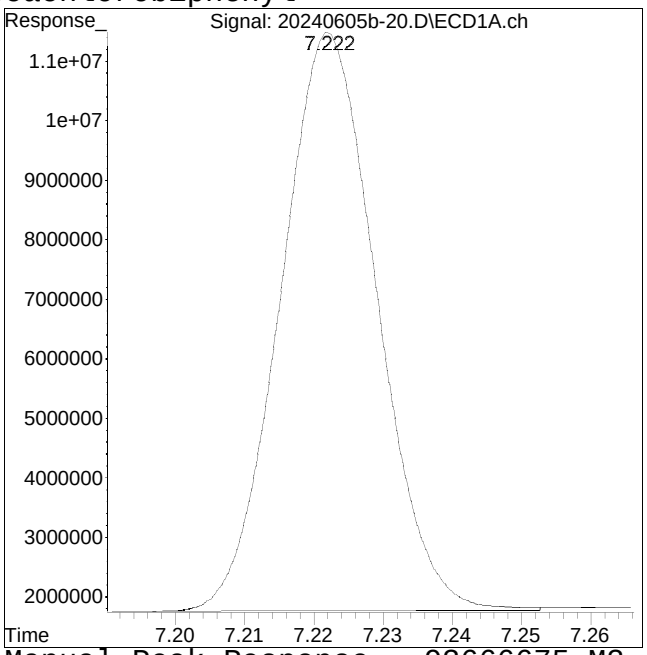
Original Peak Response = 141025307 Manual Peak Response = 139690731 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-20.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:04 Instrument : PEST 20
Sample : L2430219-04,42,, p Quant Date : 6/6/2024 5:50 am

Compound #27: Decachlorobiphenyl



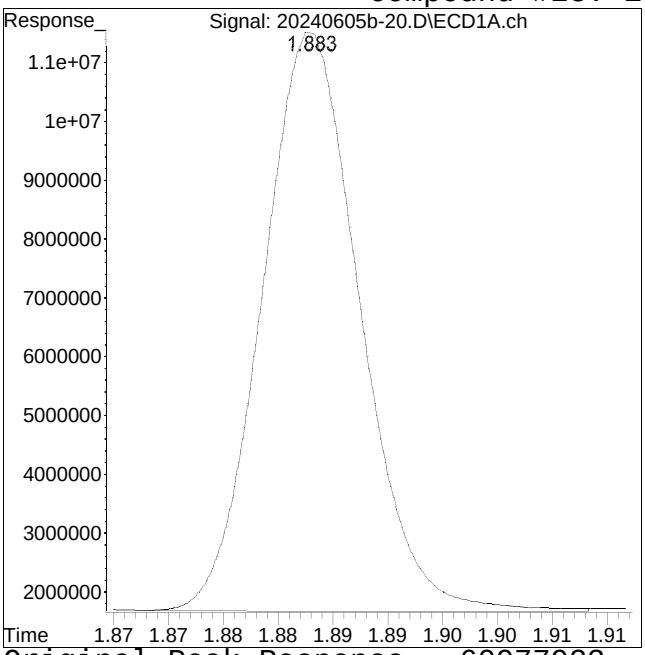


Original Peak Response = 93853885 Manual Peak Response = 93666675 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

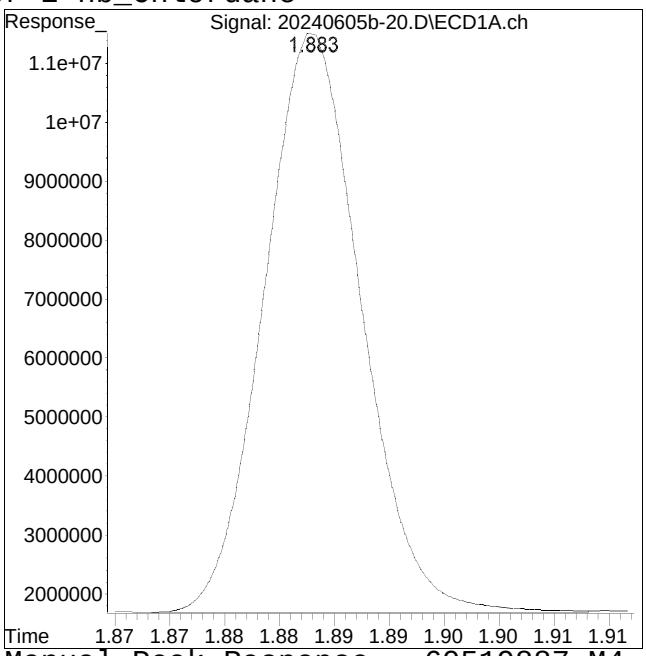
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-20.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:04 Instrument : PEST 20
Sample : L2430219-04,42,, p Quant Date : 6/6/2024 5:50 am

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 60977923



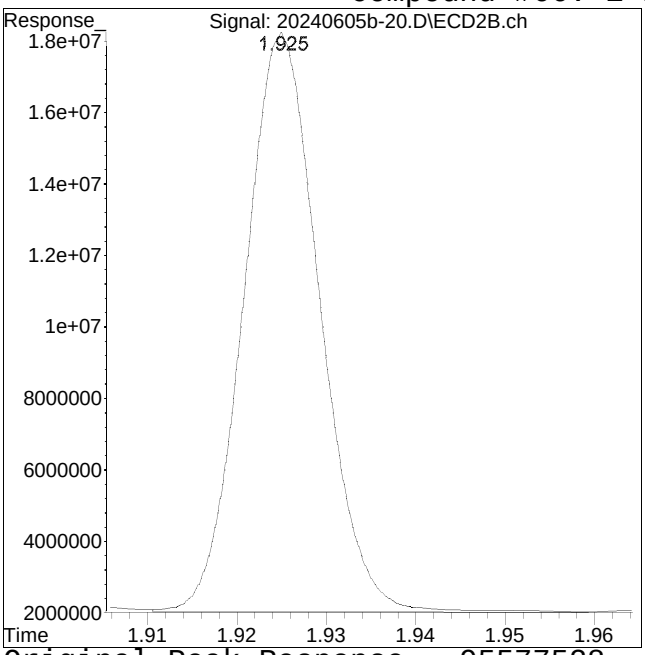
Manual Peak Response = 60519887 M4

M4 = Poor automated baseline construction.

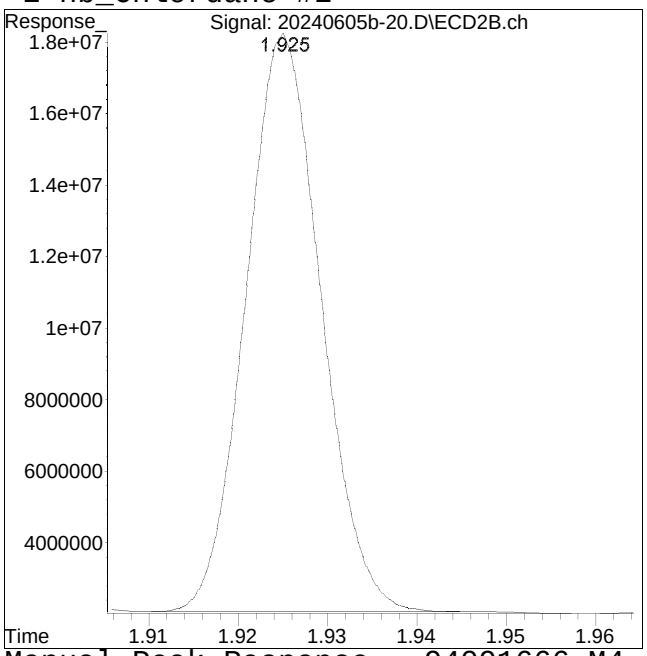
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-20.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:04 Instrument : PEST 20
Sample : L2430219-04,42,, p Quant Date : 6/6/2024 5:50 am

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 95577528



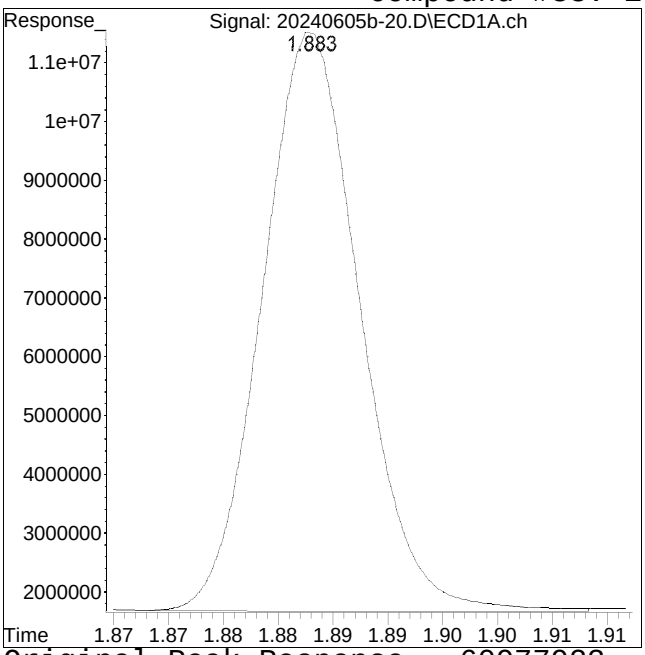
Manual Peak Response = 94091666 M4

M4 = Poor automated baseline construction.

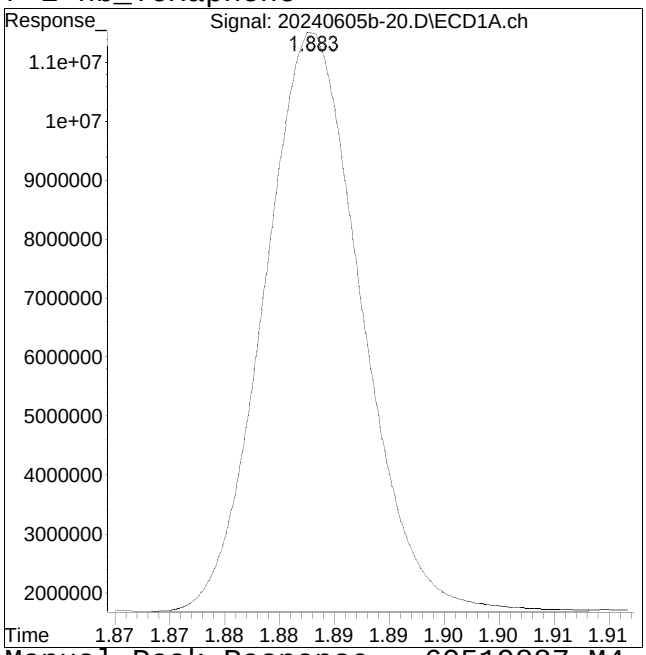
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-20.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:04 Instrument : PEST 20
Sample : L2430219-04,42,, p Quant Date : 6/6/2024 5:50 am

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 60977923



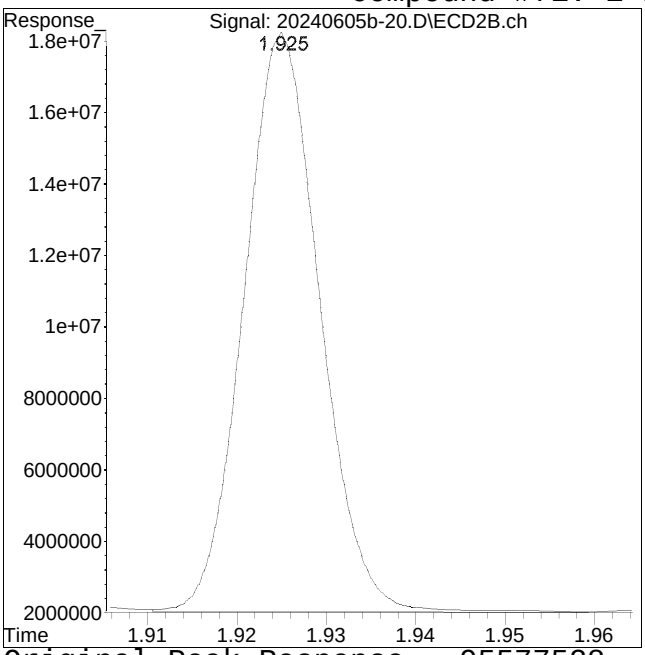
Manual Peak Response = 60519887 M4

M4 = Poor automated baseline construction.

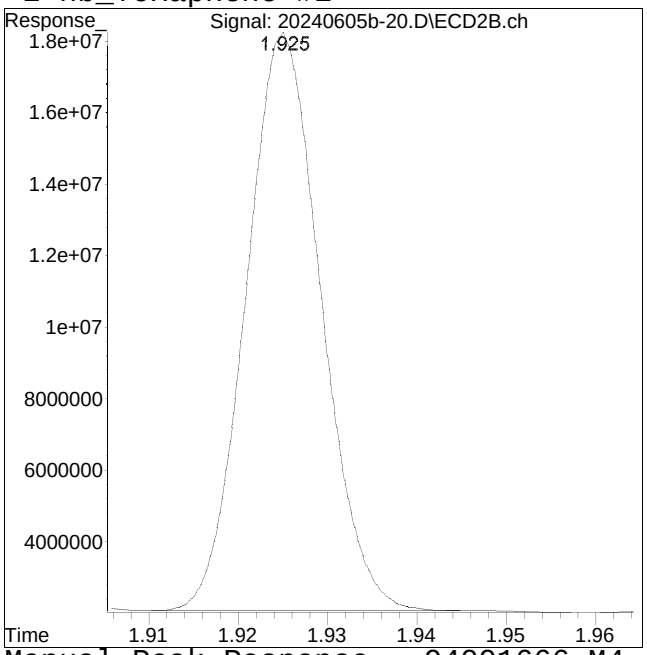
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-20.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:04 Instrument : PEST 20
Sample : L2430219-04,42,, p Quant Date : 6/6/2024 5:50 am

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 95577528



Manual Peak Response = 94091666 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 23:42
Operator : pest20:jag
Sample : L2430219-01,42,,
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:51:20 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240605b\20240605b-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.884	1.926	61315540	100.0E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 60467879				Recovery = 101.40%		
	Standard Area 1 : #2 = 94939114				Recovery = 105.35%		
28) i	1-br-2-nb_Ch	1.884	1.926	61315540	100.0E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.884	1.926	61315540	100.0E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.349	2.519	78468045	117.9E6	27.811M4	26.562M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 55.62%		53.12%
27) s	Decachlorobi	7.221	7.775	65618372	97215138	26.301M4	27.214M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 52.60%		54.43%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 23:42
Operator : pest20:jag
Sample : L2430219-01,42,,
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:51:20 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240605b\20240605b-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

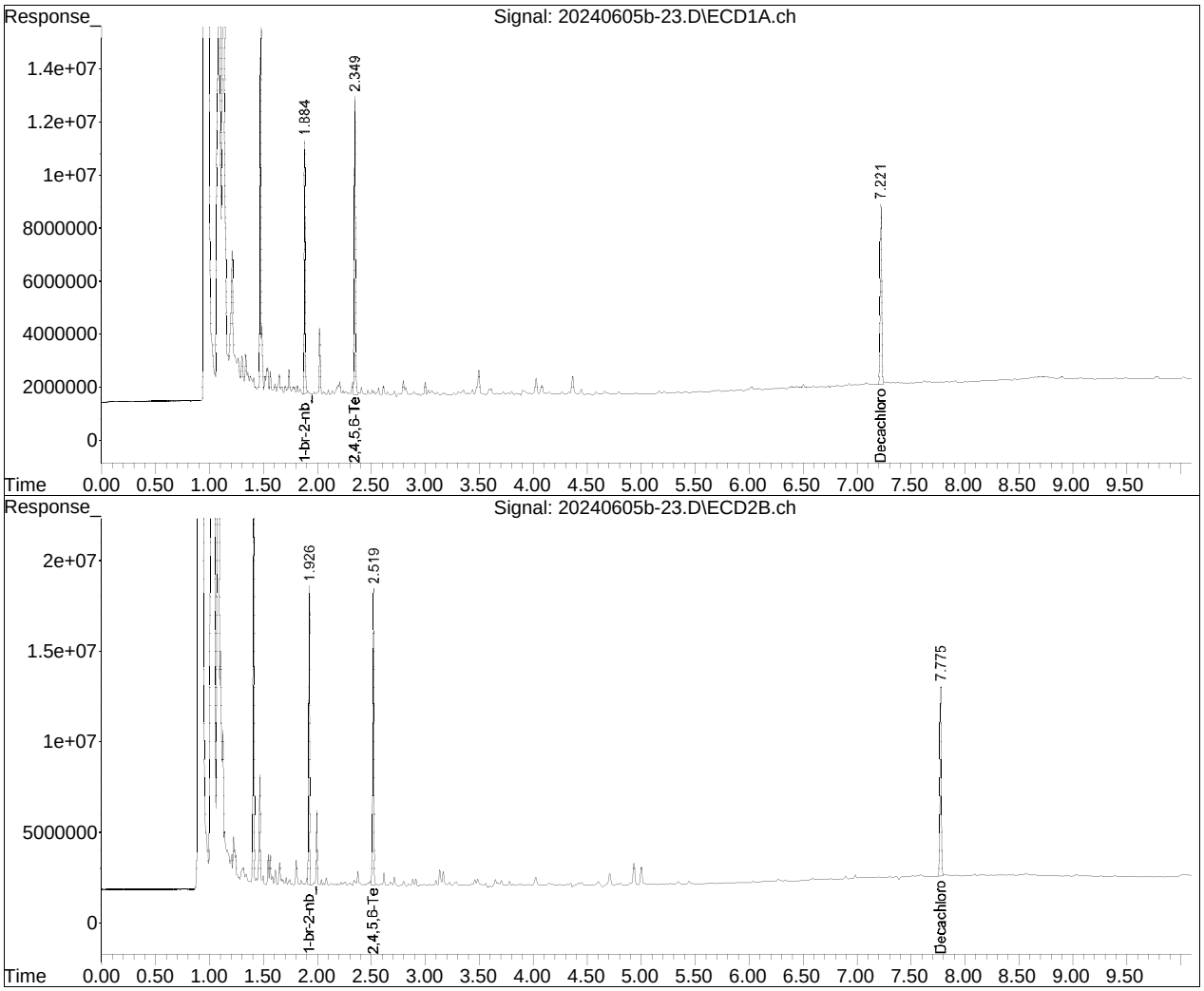
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedb\20240605b-03.D•

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 23:42
Operator : pest20:jag
Sample : L2430219-01,42,,
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:51:20 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

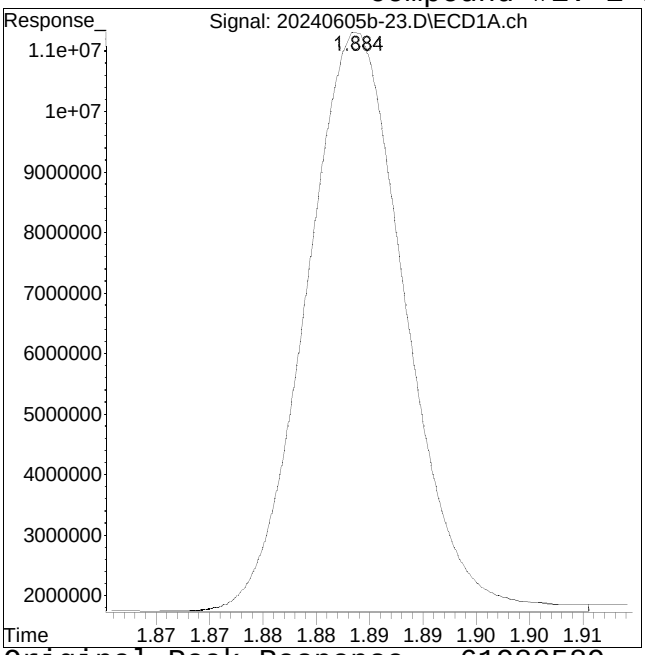
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



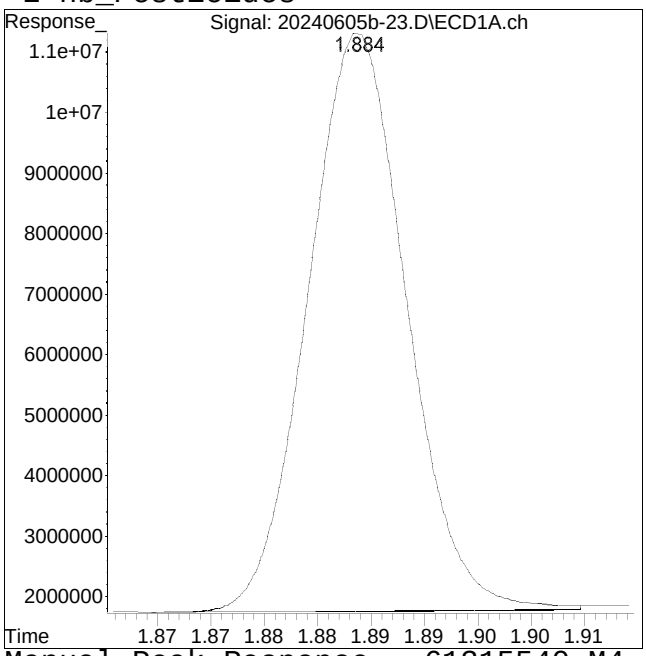
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-23.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:42 Instrument : PEST 20
Sample : L2430219-01,42,, Quant Date : 6/6/2024 5:51 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 61980589



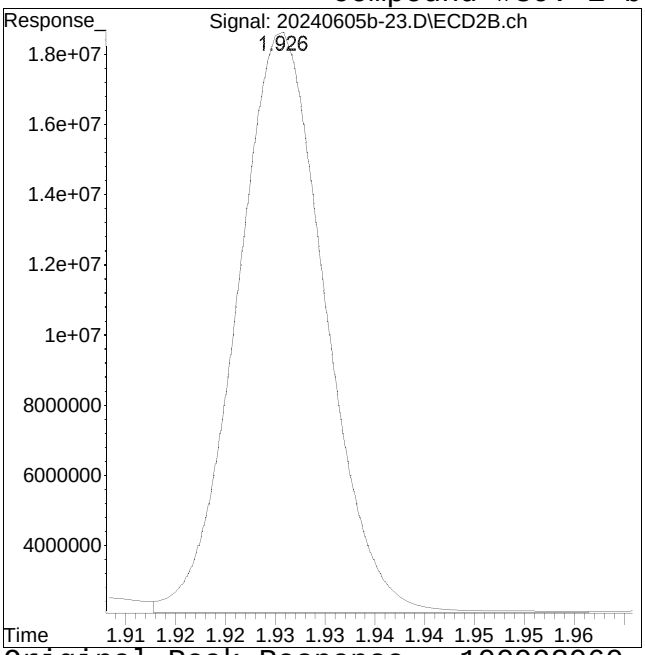
Manual Peak Response = 61315540 M4

M4 = Poor automated baseline construction.

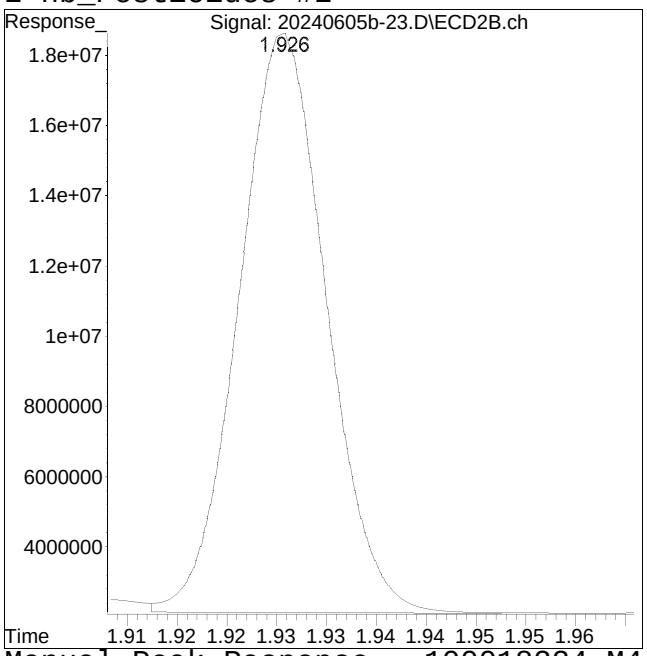
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-23.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:42 Instrument : PEST 20
Sample : L2430219-01,42,, Quant Date : 6/6/2024 5:51 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 100993960



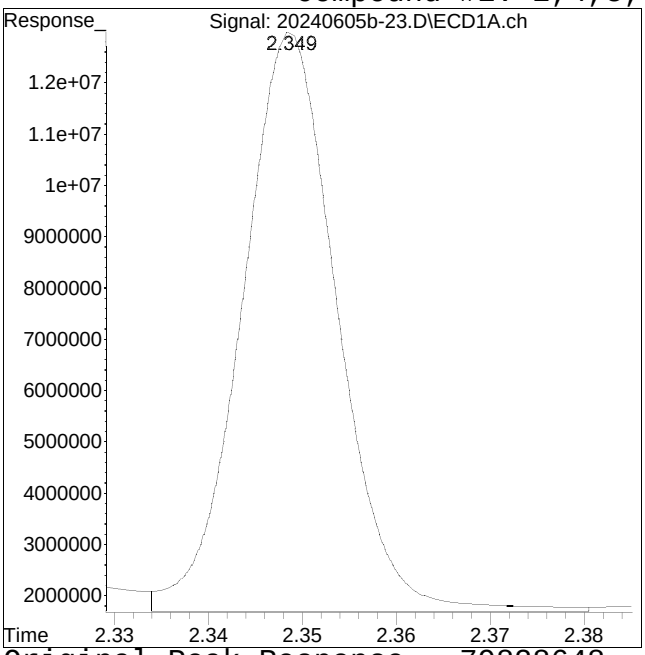
Manual Peak Response = 100018224 M4

M4 = Poor automated baseline construction.

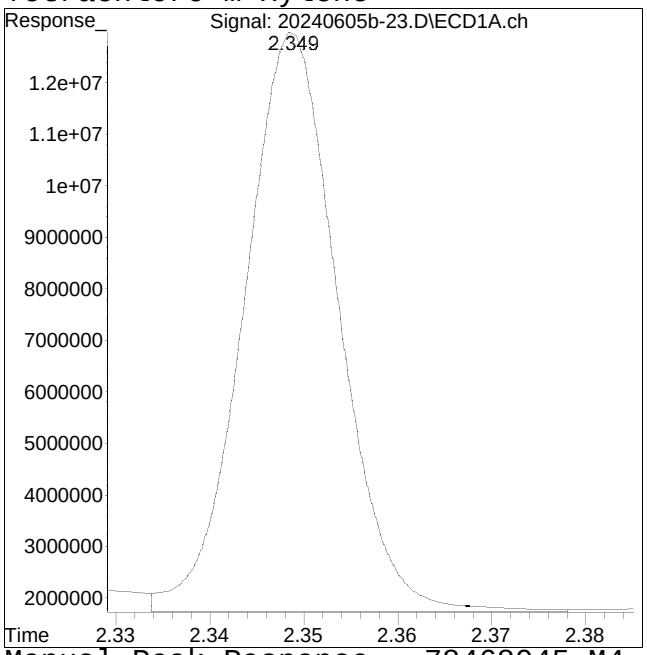
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-23.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:42 Instrument : PEST 20
Sample : L2430219-01,42,, Quant Date : 6/6/2024 5:51 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 79828648



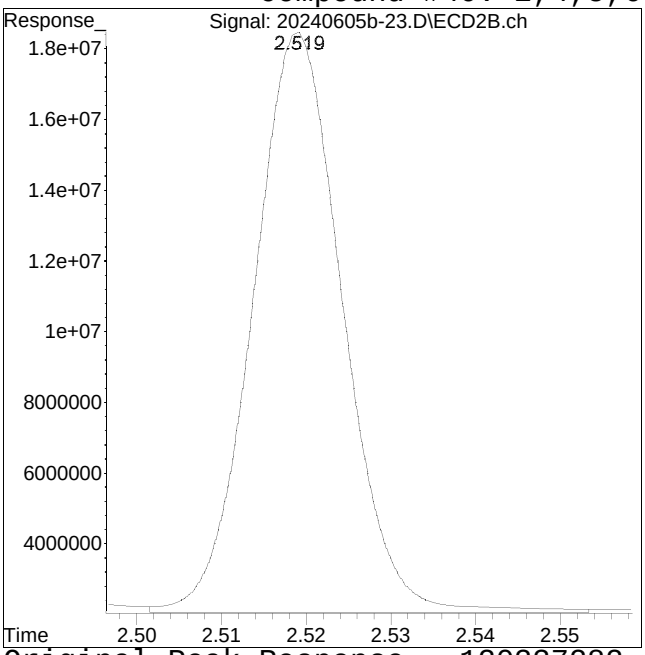
Manual Peak Response = 78468045 M4

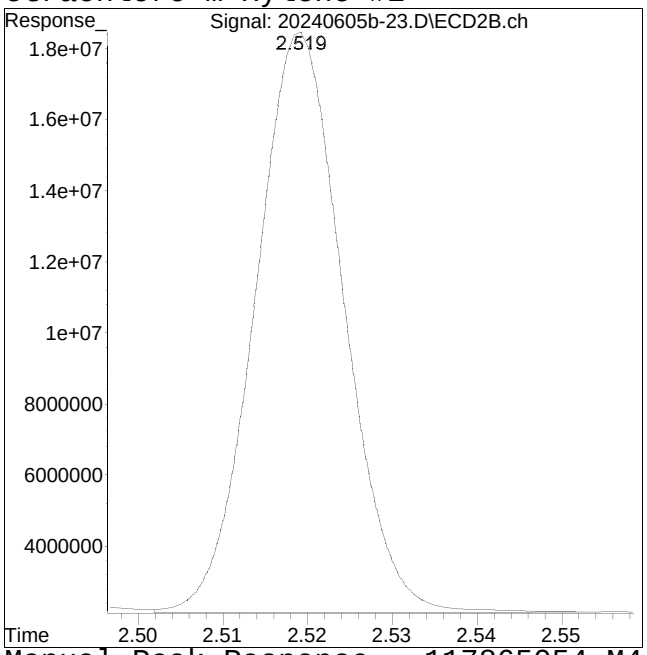
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-23.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:42 Instrument : PEST 20
Sample : L2430219-01,42,, Quant Date : 6/6/2024 5:51 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



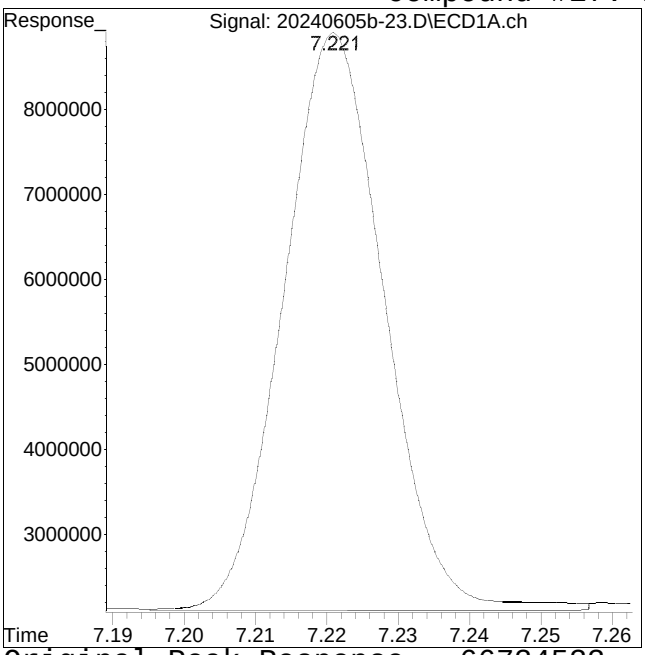


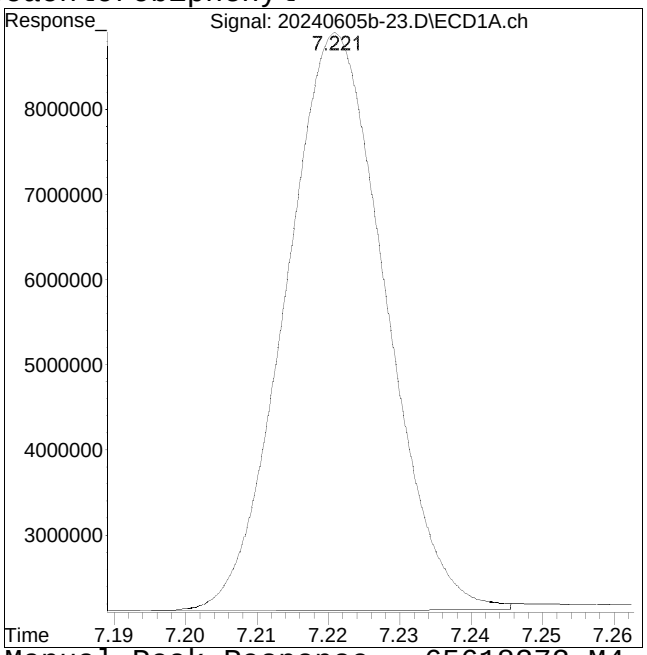
Original Peak Response = 120337282 Manual Peak Response = 117865054 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-23.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:42 Instrument : PEST 20
Sample : L2430219-01,42,, Quant Date : 6/6/2024 5:51 am

Compound #27: Decachlorobiphenyl



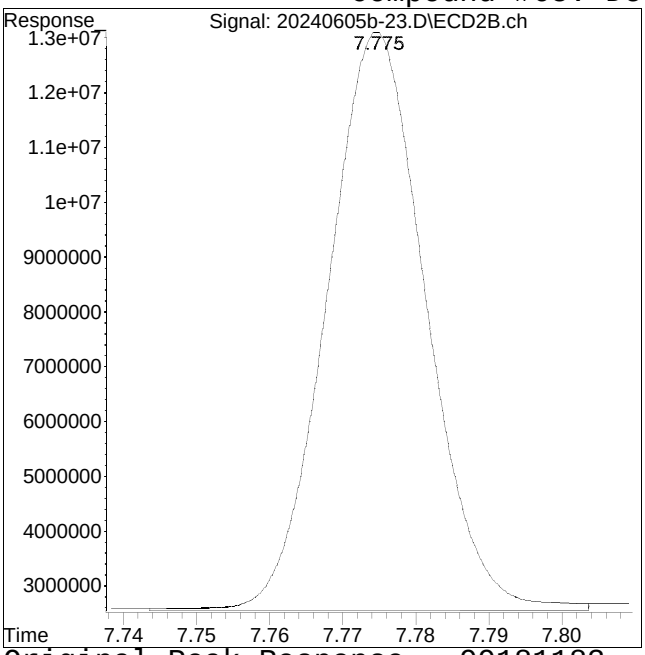


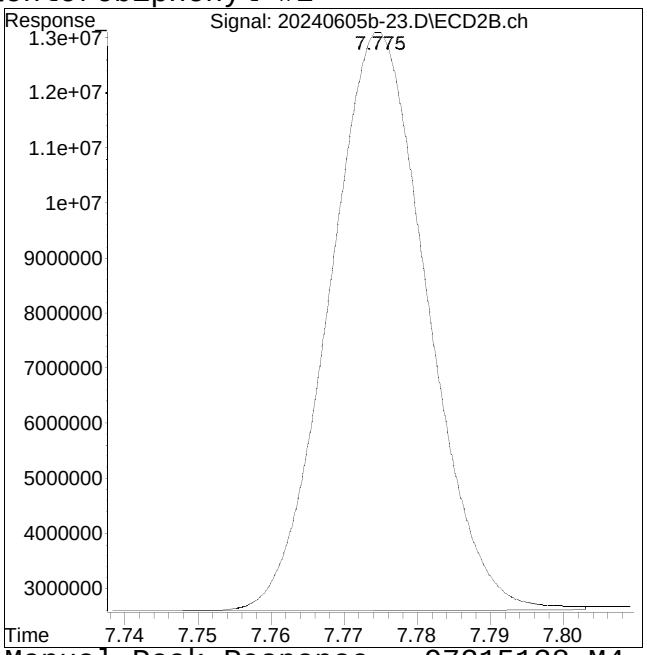
Original Peak Response = 66734533 Manual Peak Response = 65618372 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-23.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:42 Instrument : PEST 20
Sample : L2430219-01,42,, Quant Date : 6/6/2024 5:51 am

Compound #65: Decachlorobiphenyl #2



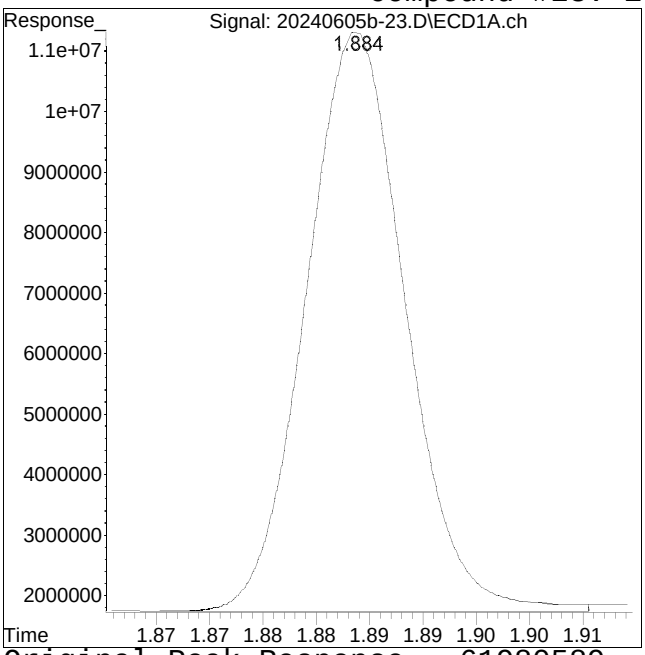


Original Peak Response = 99181183 Manual Peak Response = 97215138 M4
M4 = Poor automated baseline construction.

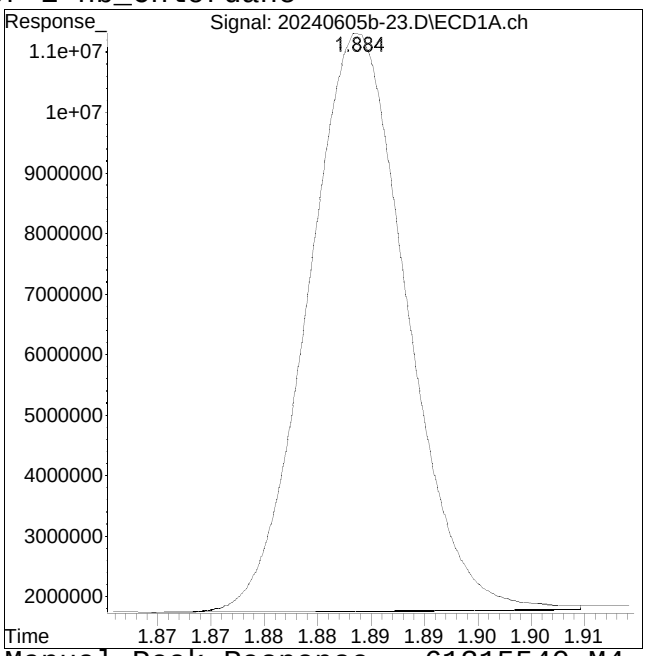
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-23.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:42 Instrument : PEST 20
Sample : L2430219-01,42,, Quant Date : 6/6/2024 5:51 am

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 61980589



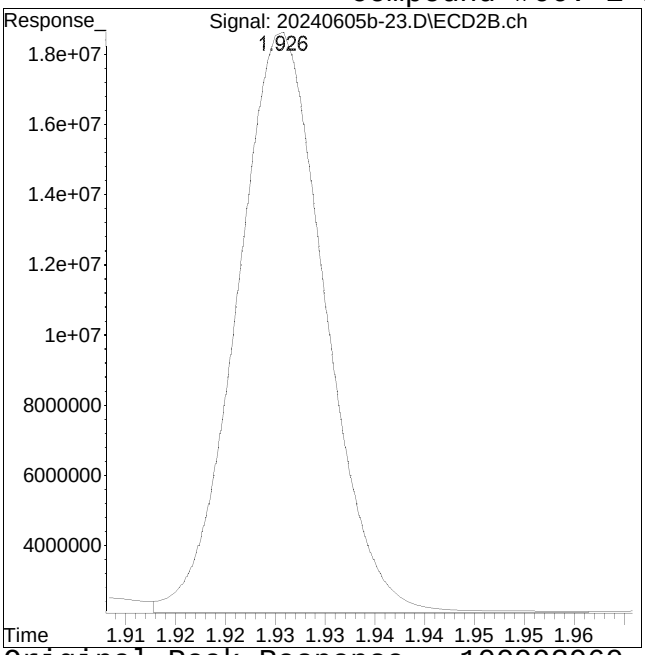
Manual Peak Response = 61315540 M4

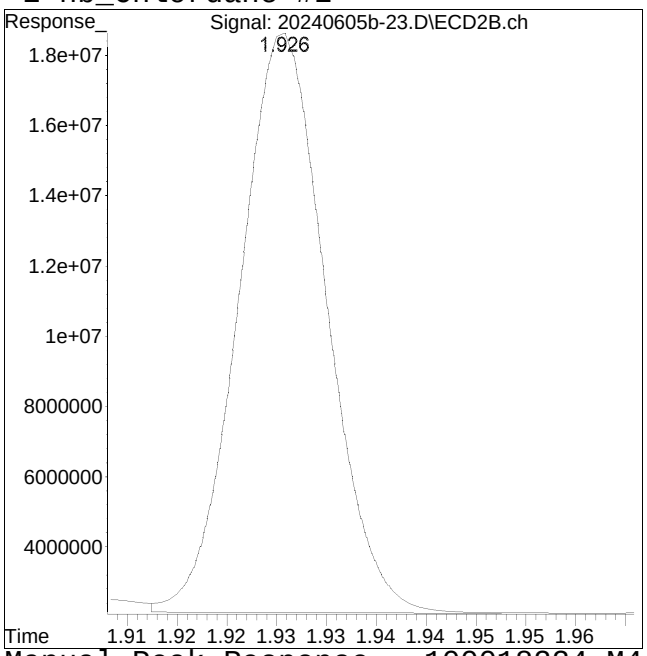
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-23.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:42 Instrument : PEST 20
Sample : L2430219-01,42,, Quant Date : 6/6/2024 5:51 am

Compound #66: 1-br-2-nb_Chlordane #2



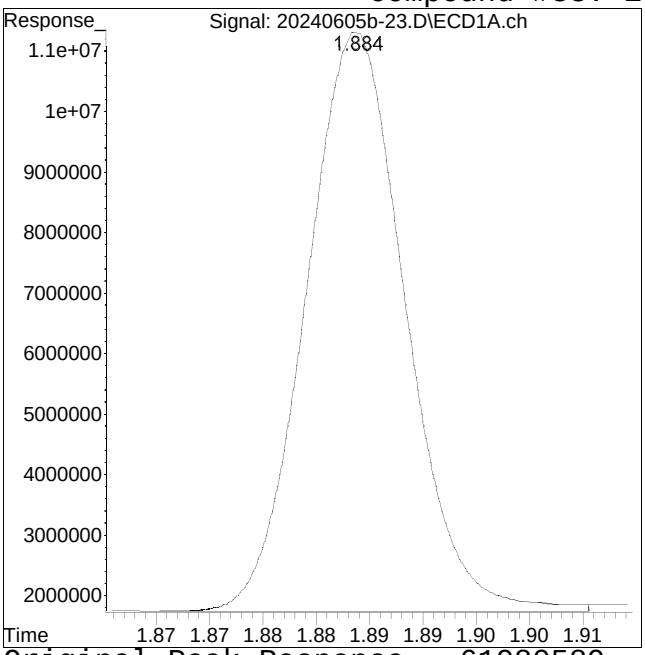


Original Peak Response = 100993960 Manual Peak Response = 100018224 M4
M4 = Poor automated baseline construction.

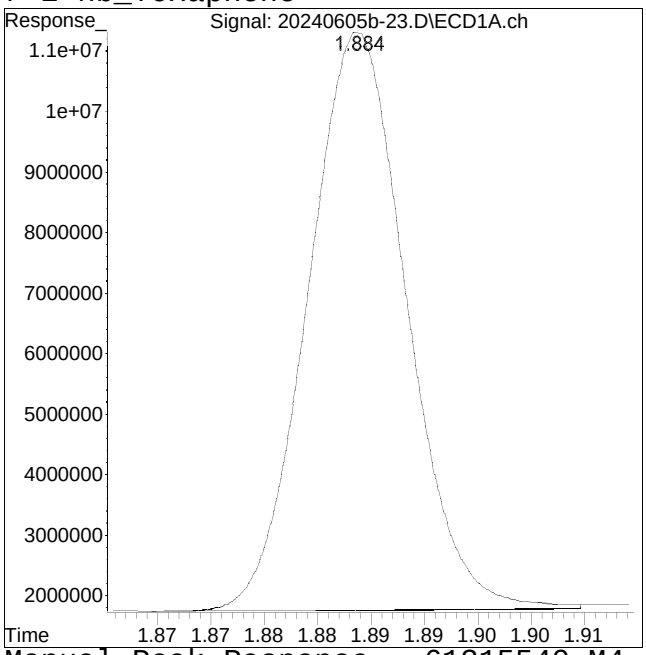
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-23.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:42 Instrument : PEST 20
Sample : L2430219-01,42,, Quant Date : 6/6/2024 5:51 am

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 61980589



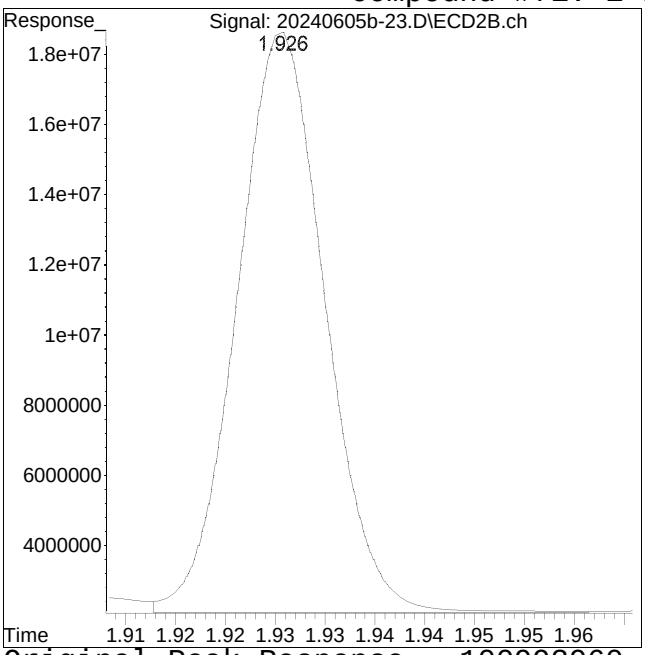
Manual Peak Response = 61315540 M4

M4 = Poor automated baseline construction.

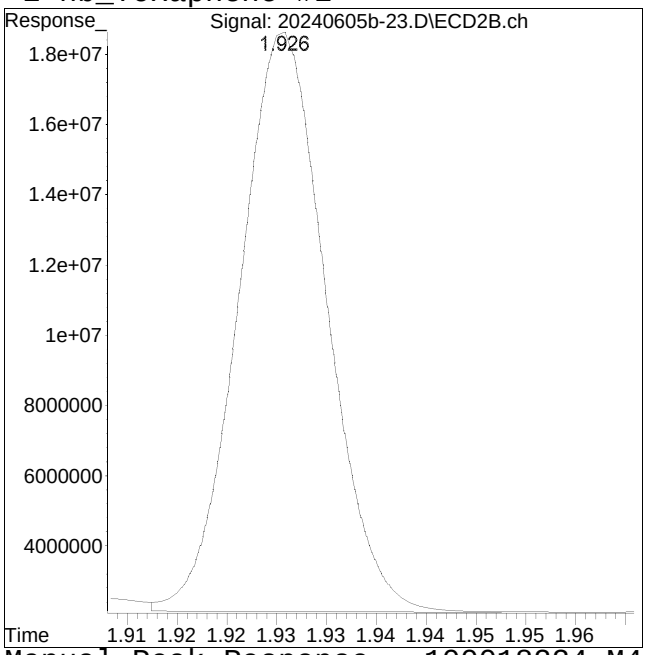
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-23.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:42 Instrument : PEST 20
Sample : L2430219-01,42,, Quant Date : 6/6/2024 5:51 am

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 100993960



Manual Peak Response = 100018224 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-24.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 23:54
Operator : pest20:jag
Sample : L2430219-02,42,,
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:51:24 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240605b\20240605b-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.883	1.925	60138719	98165955	25.000M4	25.000M4
	Standard Area 1 : #1 = 60467879				Recovery = 99.46%		
	Standard Area 1 : #2 = 94939114				Recovery = 103.40%		
28) i	1-br-2-nb_Ch	1.883	1.925	60138719	98165955	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.883	1.925	60138719	98165955	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.348	2.519	100.1E6	153.3E6	36.181M4	35.204M4
	Spiked Amount	50.000	Range 30 - 150		Recovery = 72.36%		70.41%
27) s	Decachlorobi	7.220	7.773	90343843	126.0E6	37.431M4	36.332M4
	Spiked Amount	50.000	Range 30 - 150		Recovery = 74.86%		72.66%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-24.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 23:54
Operator : pest20:jag
Sample : L2430219-02,42,,
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:51:24 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240605b\20240605b-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

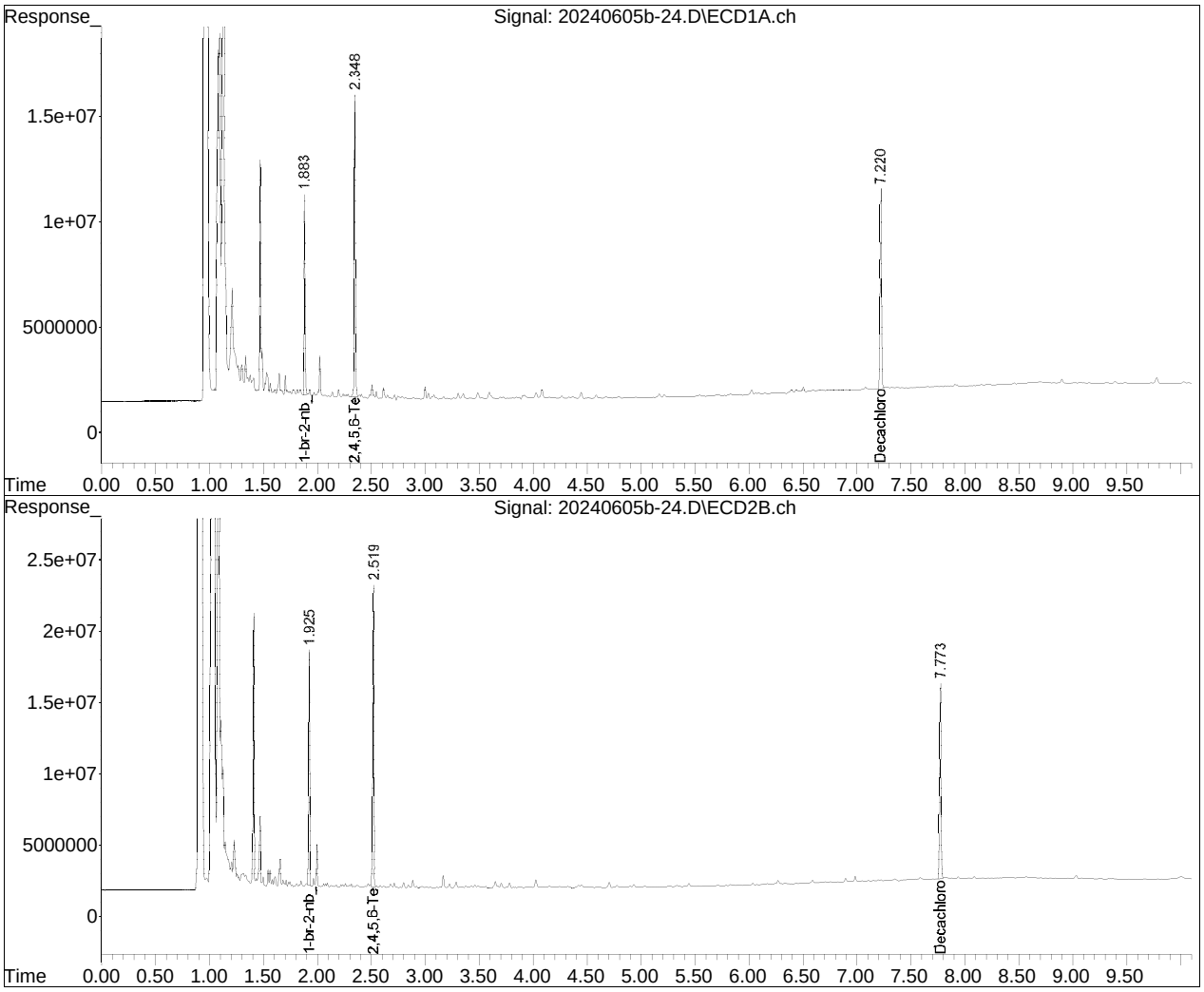
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedb\20240605b-03.D•

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-24.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 23:54
Operator : pest20:jag
Sample : L2430219-02,42,,
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:51:24 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

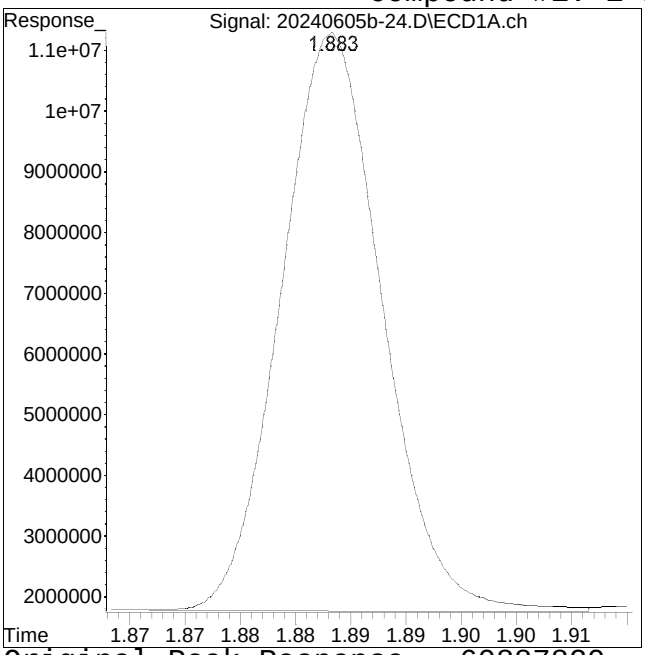
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



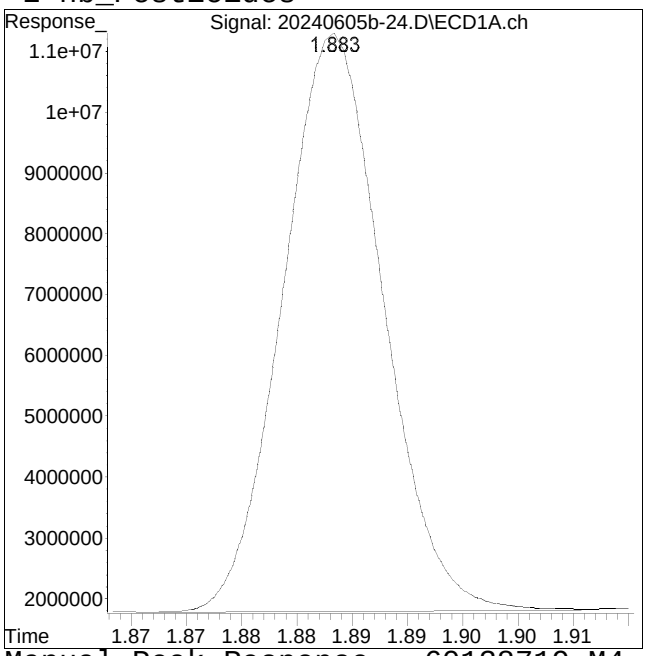
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-24.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:54 Instrument : PEST 20
Sample : L2430219-02,42,, Quant Date : 6/6/2024 5:51 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 60887820



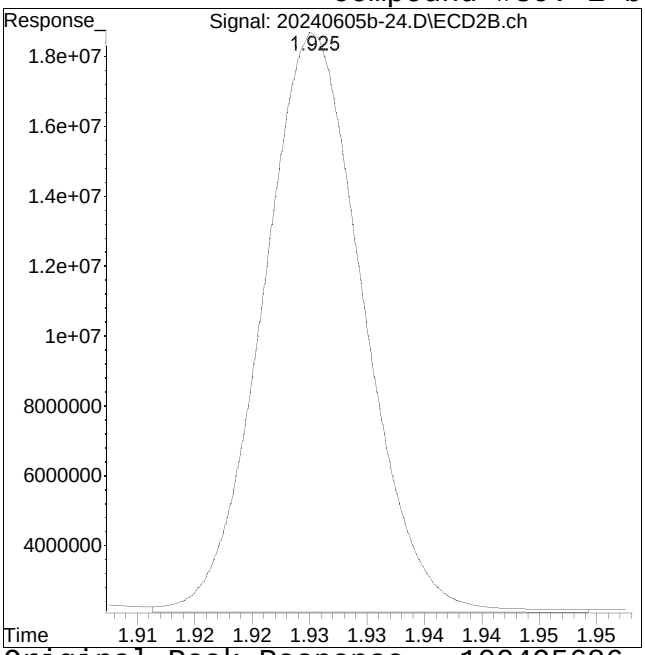
Manual Peak Response = 60138719 M4

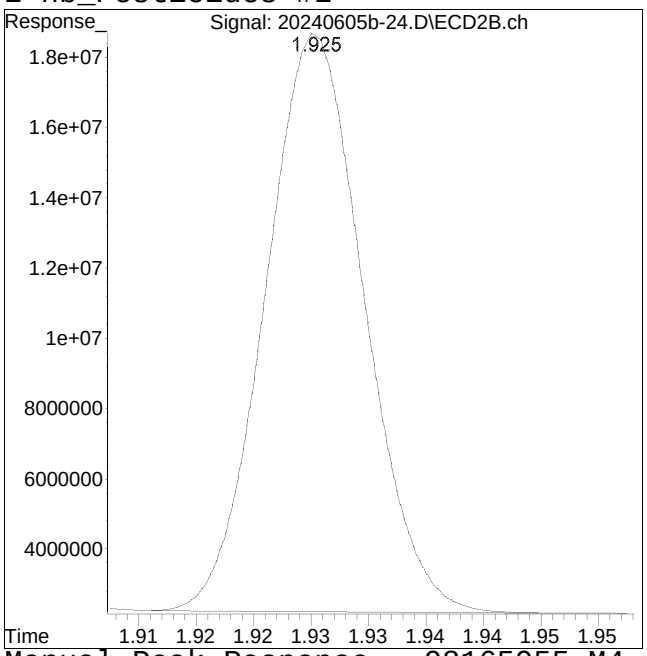
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-24.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:54 Instrument : PEST 20
Sample : L2430219-02,42,, Quant Date : 6/6/2024 5:51 am

Compound #39: 1-br-2-nb_Pesticides #2



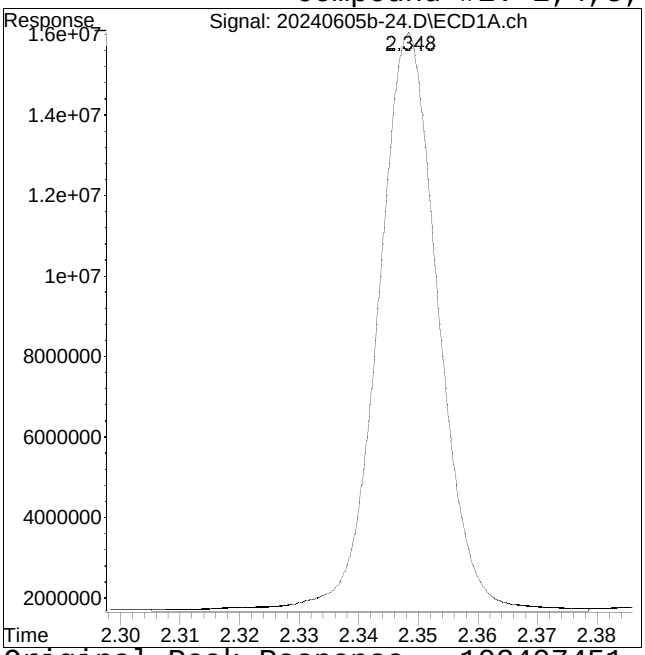


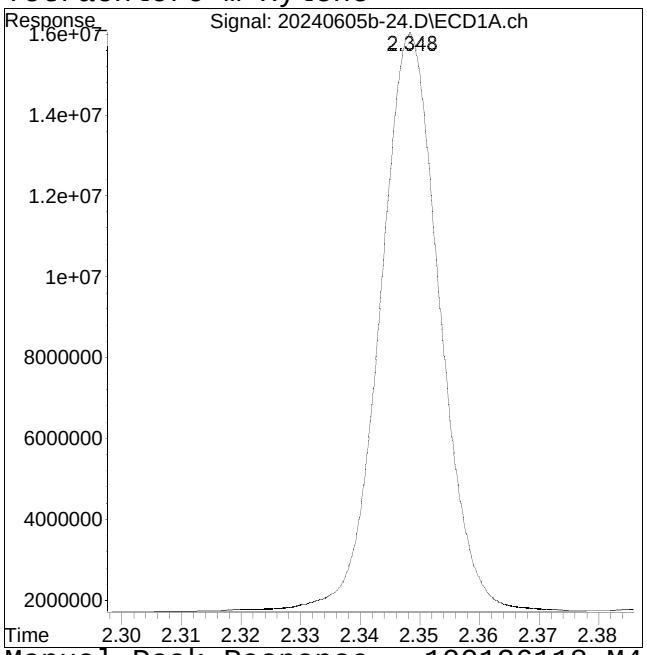
Original Peak Response = 100495686 Manual Peak Response = 98165955 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-24.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:54 Instrument : PEST 20
Sample : L2430219-02,42,, Quant Date : 6/6/2024 5:51 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



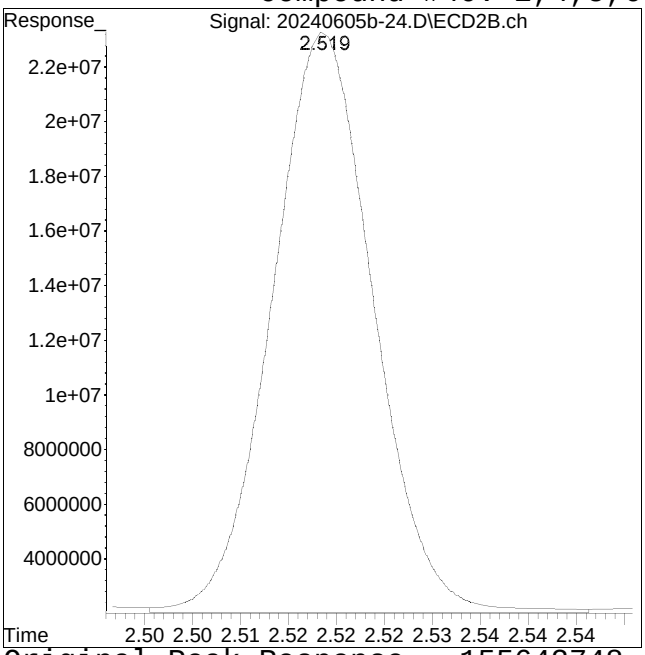


Original Peak Response = 102407451 Manual Peak Response = 100126118 M4
M4 = Poor automated baseline construction.

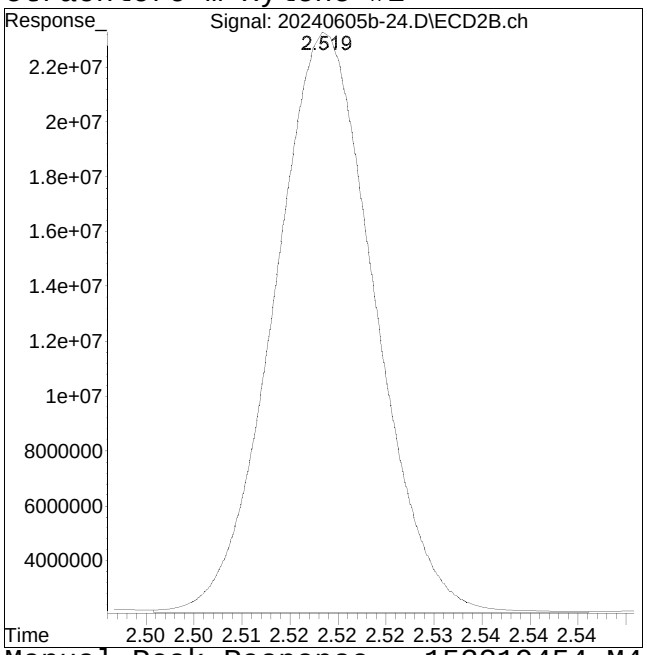
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-24.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:54 Instrument : PEST 20
Sample : L2430219-02,42,, Quant Date : 6/6/2024 5:51 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 155642748



Manual Peak Response = 153319454 M4

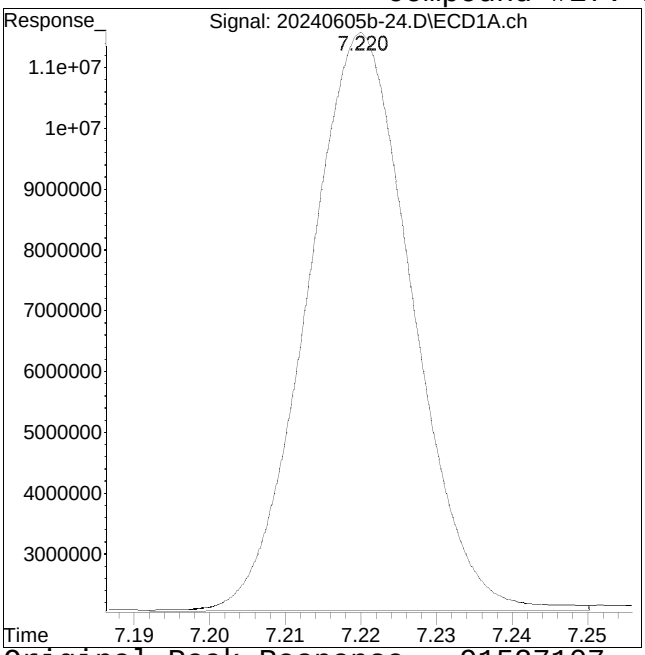
M4 = Poor automated baseline construction.

Manual Integration Report

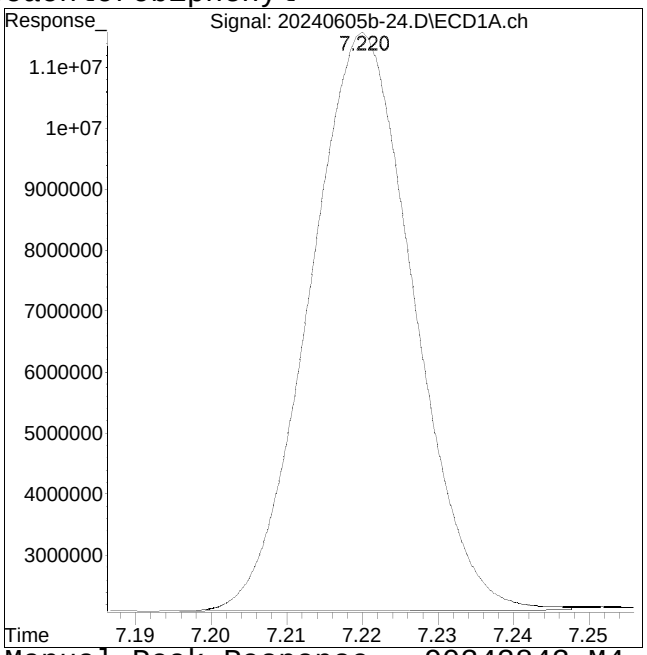
Data Path : I:\PEST\Pest20\2024\240605Q
Data File : 20240605b-24.D
Date Inj'd : 6/5/2024 23:54
Sample : L2430219-02,42,,

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:jag
Instrument : PEST 20
Quant Date : 6/6/2024 5:51 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 91527107



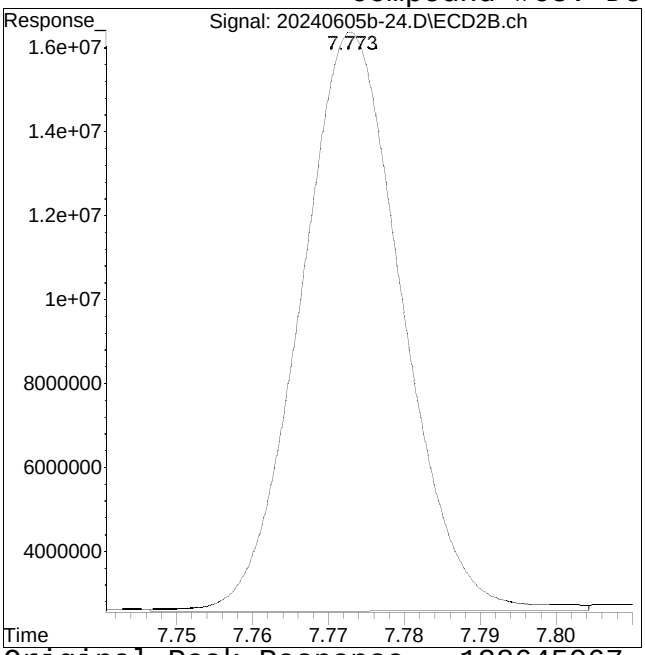
Manual Peak Response = 90343843 M4

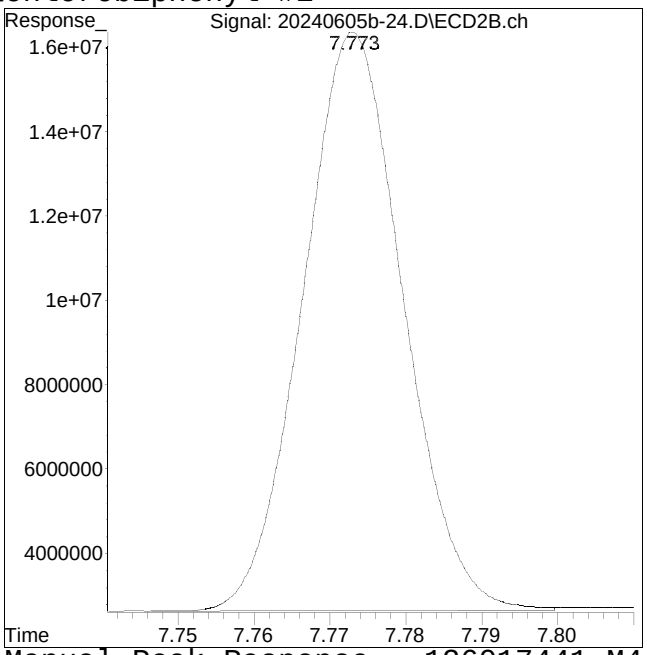
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-24.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:54 Instrument : PEST 20
Sample : L2430219-02,42,, Quant Date : 6/6/2024 5:51 am

Compound #65: Decachlorobiphenyl #2



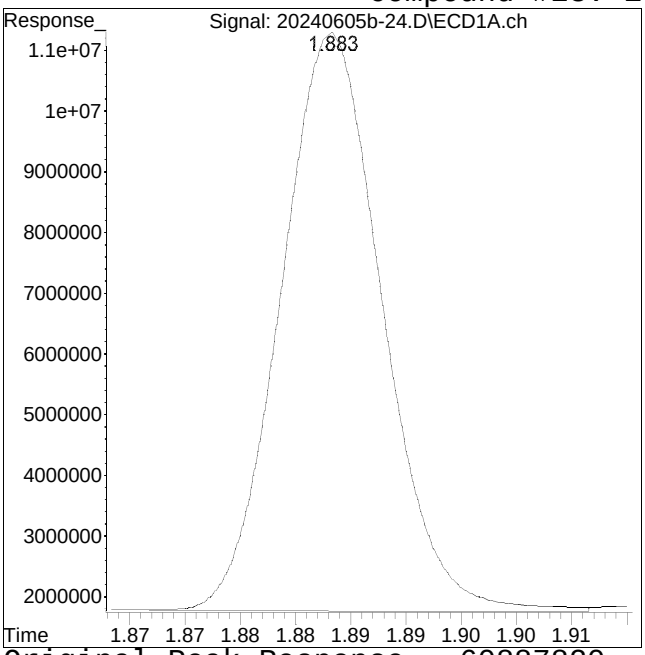


Original Peak Response = 128645967 Manual Peak Response = 126017441 M4
M4 = Poor automated baseline construction.

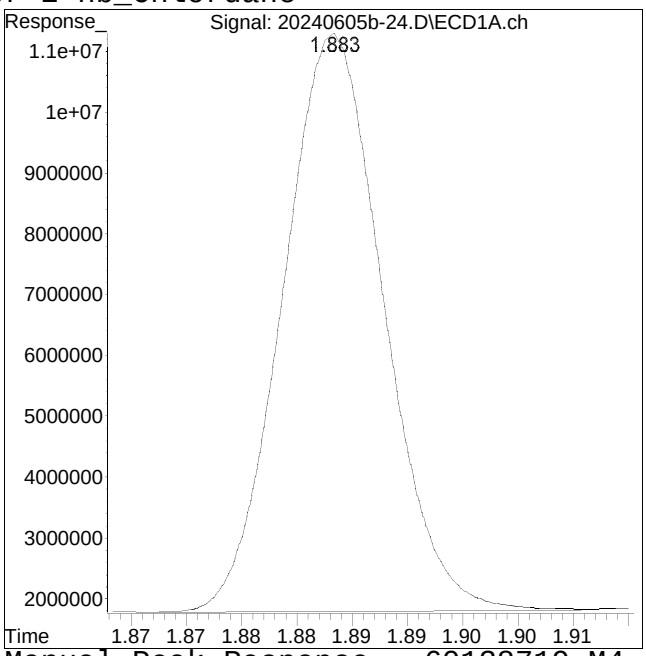
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-24.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:54 Instrument : PEST 20
Sample : L2430219-02,42,, Quant Date : 6/6/2024 5:51 am

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 60887820



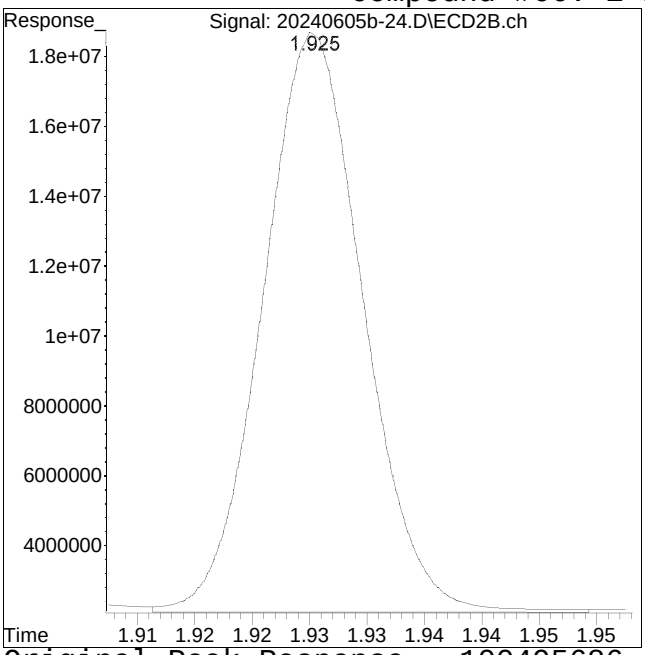
Manual Peak Response = 60138719 M4

M4 = Poor automated baseline construction.

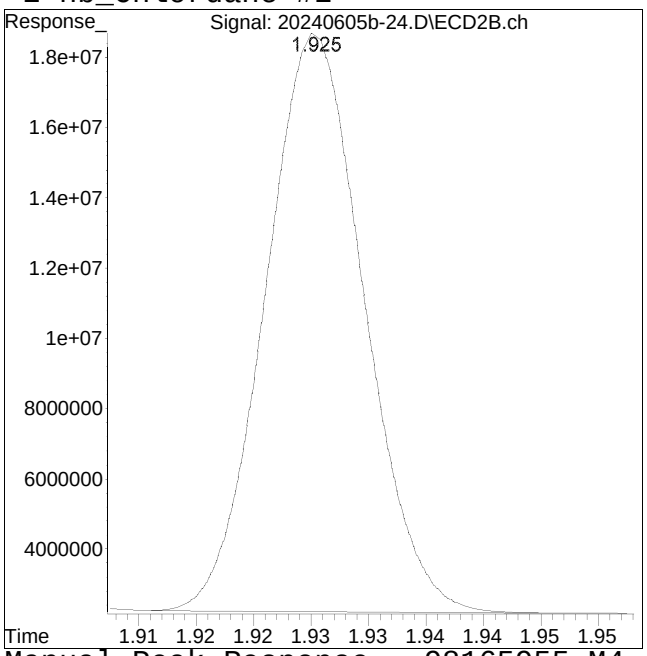
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-24.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:54 Instrument : PEST 20
Sample : L2430219-02,42,, Quant Date : 6/6/2024 5:51 am

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 100495686



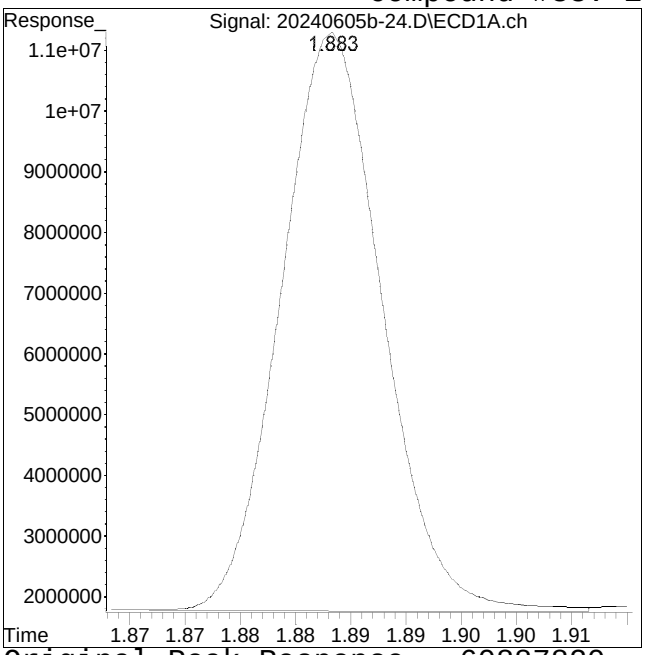
Manual Peak Response = 98165955 M4

M4 = Poor automated baseline construction.

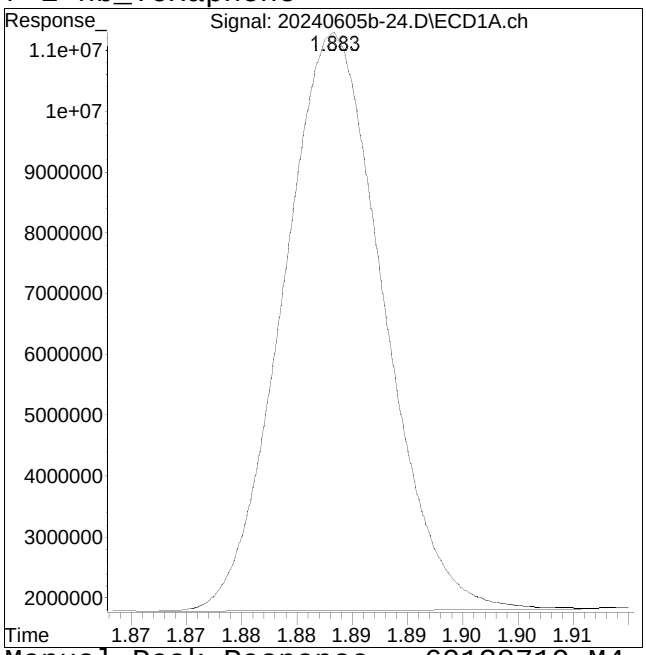
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-24.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:54 Instrument : PEST 20
Sample : L2430219-02,42,, Quant Date : 6/6/2024 5:51 am

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 60887820



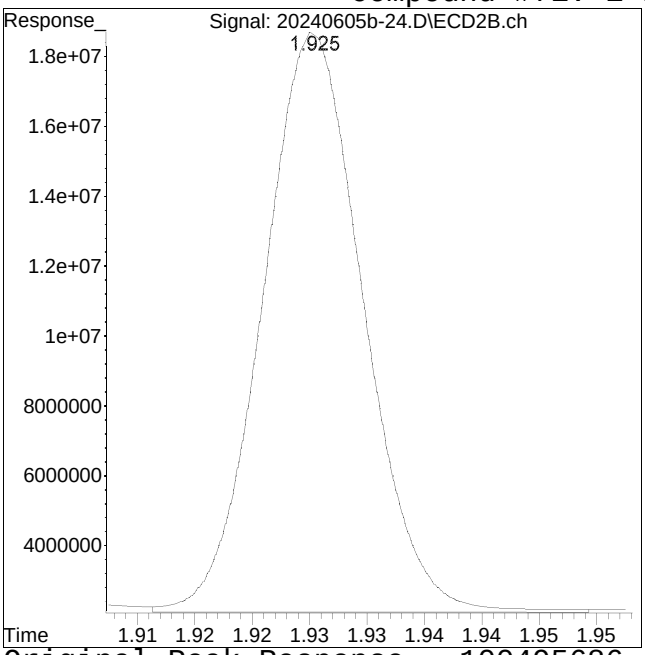
Manual Peak Response = 60138719 M4

M4 = Poor automated baseline construction.

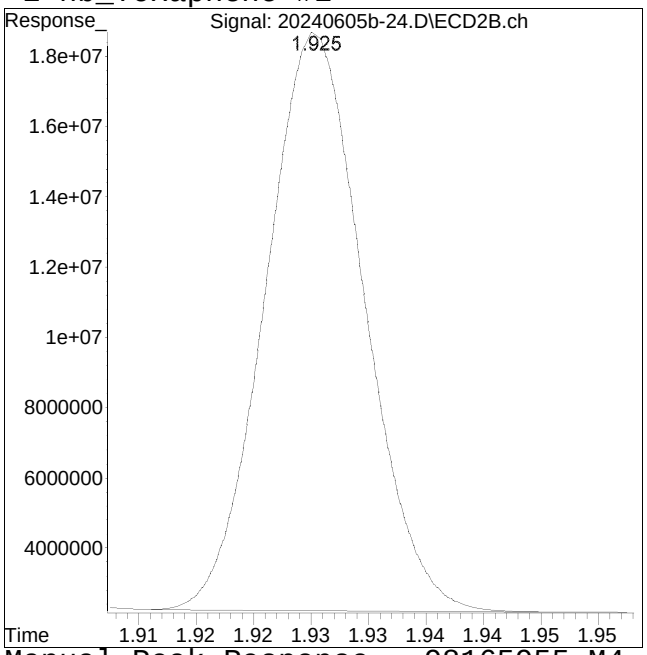
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-24.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:54 Instrument : PEST 20
Sample : L2430219-02,42,, Quant Date : 6/6/2024 5:51 am

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 100495686



Manual Peak Response = 98165955 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jun 2024 00:07
Operator : pest20:jag
Sample : L2430219-03,42,,
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:51:27 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240605b\20240605b-03.D
Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	1.883	1.925	56783341	96109241	25.000M4	25.000M4
		Standard Area 1 : #1 = 60467879				Recovery = 93.91%		
		Standard Area 1 : #2 = 94939114				Recovery = 101.23%		
28)	i	1-br-2-nb_Ch	1.883	1.925	56783341	96109241	25.000M4	25.000M4
33)	i	1-br-2-nb_To	1.883	1.925	56783341	96109241	25.000M4	25.000M4
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	2.348	2.518	93461075	139.8E6	35.768M4	32.776M4
		Spiked Amount 50.000	Range 30 - 150			Recovery = 71.54%		65.55%
27)	s	Decachlorobi	7.220	7.773	87133858	117.9E6	38.261M4	34.675M4
		Spiked Amount 50.000	Range 30 - 150			Recovery = 76.52%		69.35%
		Target Compounds						
4)		alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)		gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)		beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)		delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)		Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)		Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)		Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)		gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)		alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)		4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)		Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)		Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jun 2024 00:07
Operator : pest20:jag
Sample : L2430219-03,42,,
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:51:27 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240605b\20240605b-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

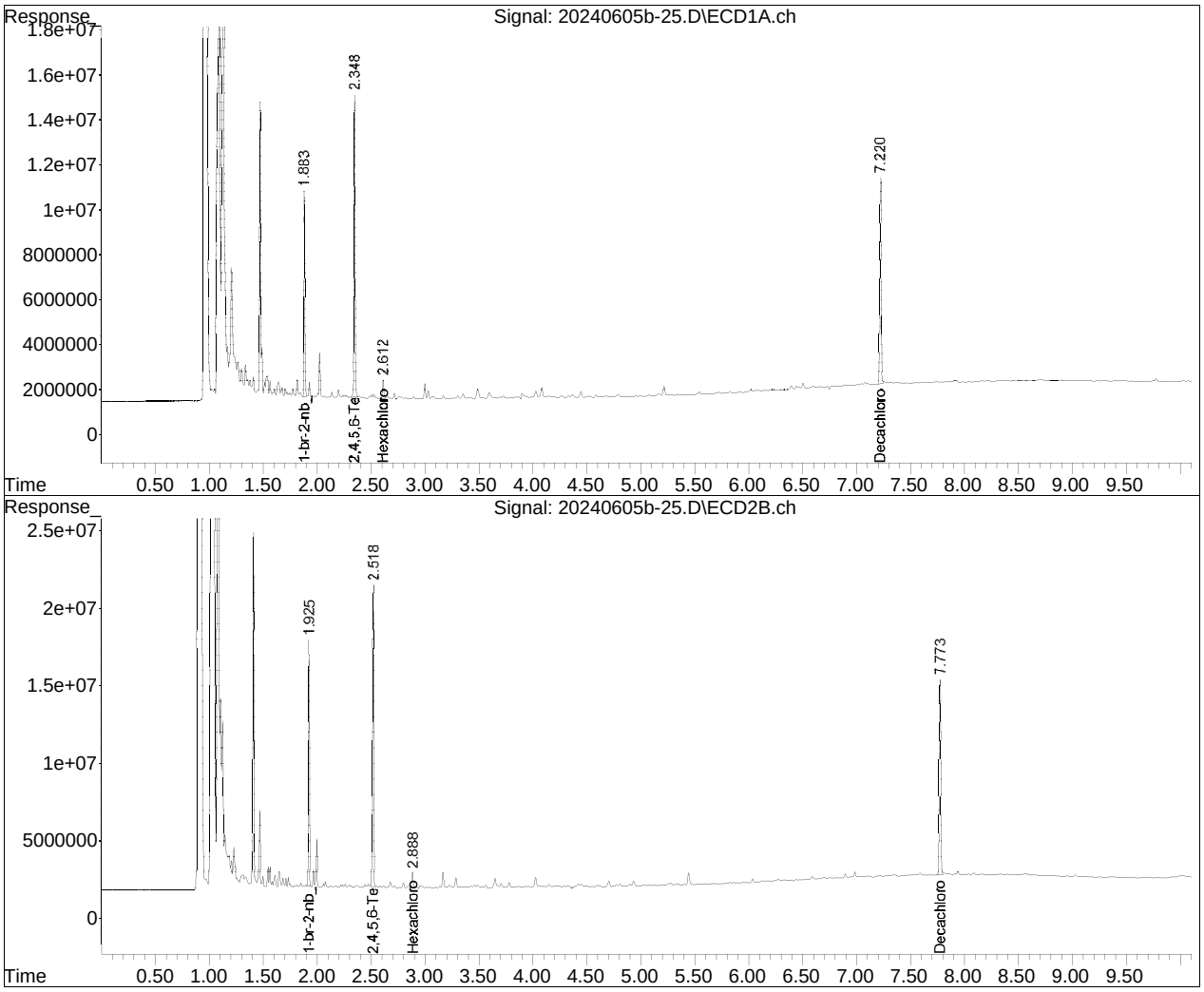
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedb\20240605b-03.D•

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jun 2024 00:07
Operator : pest20:jag
Sample : L2430219-03,42,,
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:51:27 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

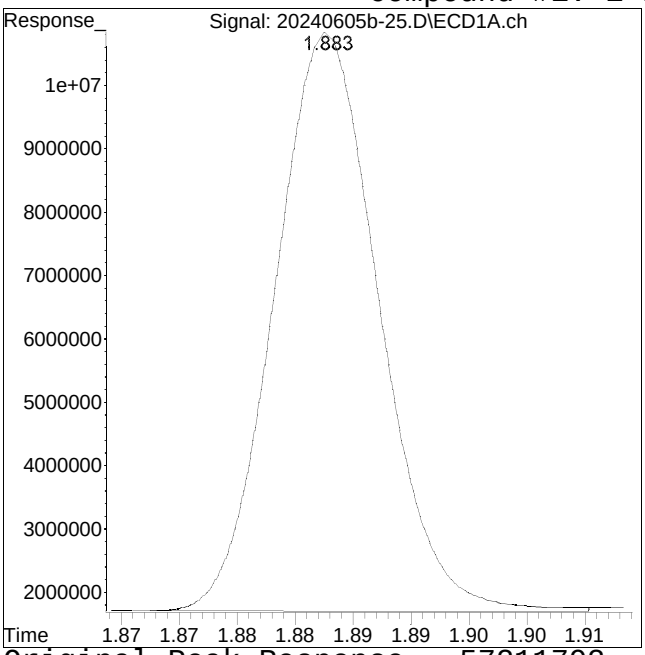
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



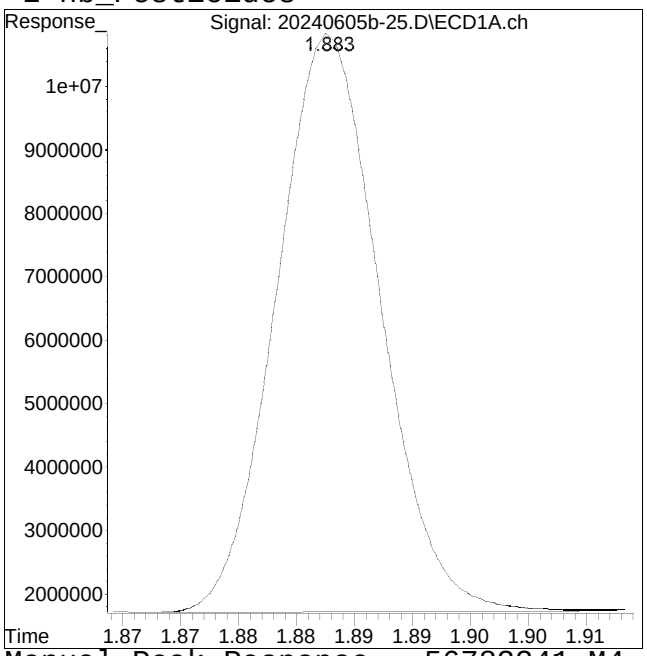
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-25.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:07 Instrument : PEST 20
Sample : L2430219-03,42,, Quant Date : 6/6/2024 5:51 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 57211792



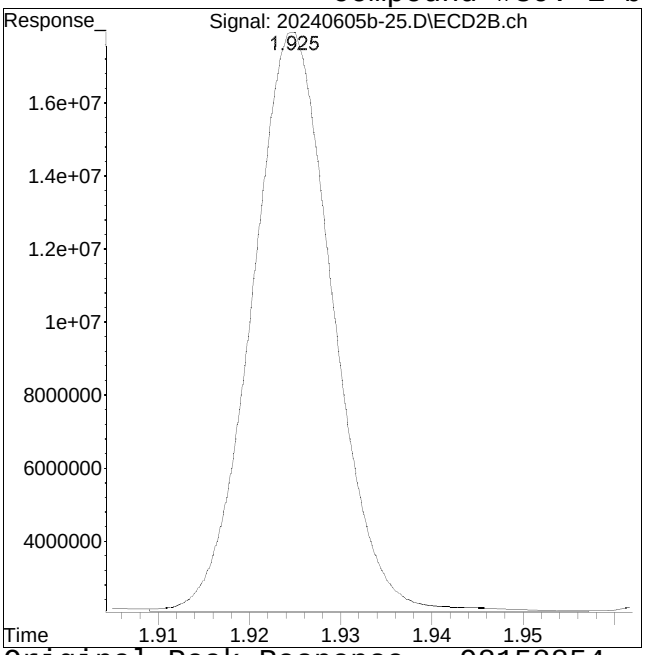
Manual Peak Response = 56783341 M4

M4 = Poor automated baseline construction.

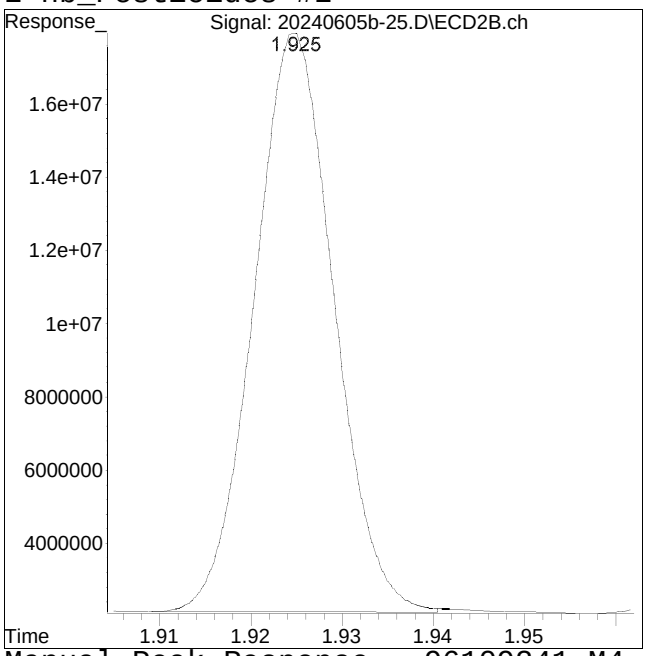
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-25.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:07 Instrument : PEST 20
Sample : L2430219-03,42,, Quant Date : 6/6/2024 5:51 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 98158854



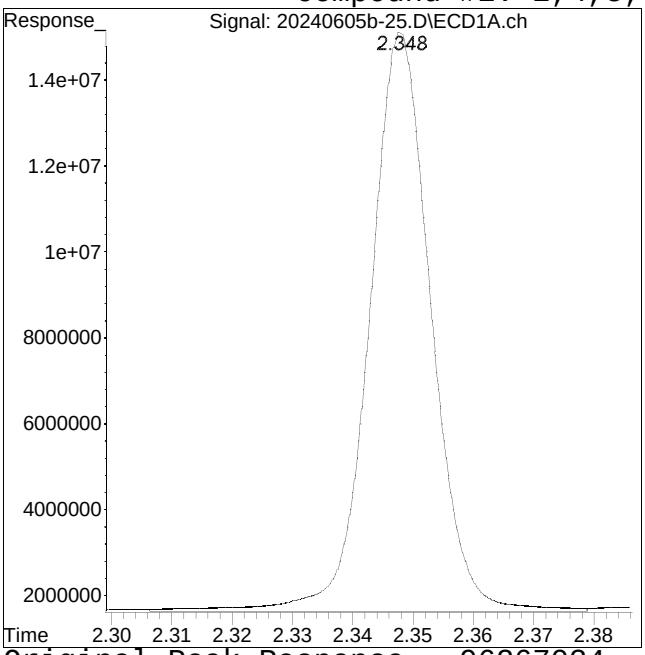
Manual Peak Response = 96109241 M4

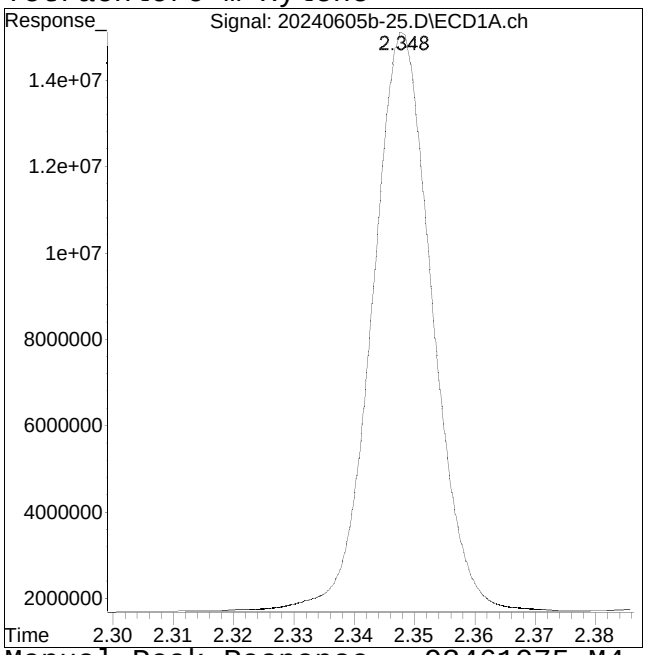
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-25.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:07 Instrument : PEST 20
Sample : L2430219-03,42,, Quant Date : 6/6/2024 5:51 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



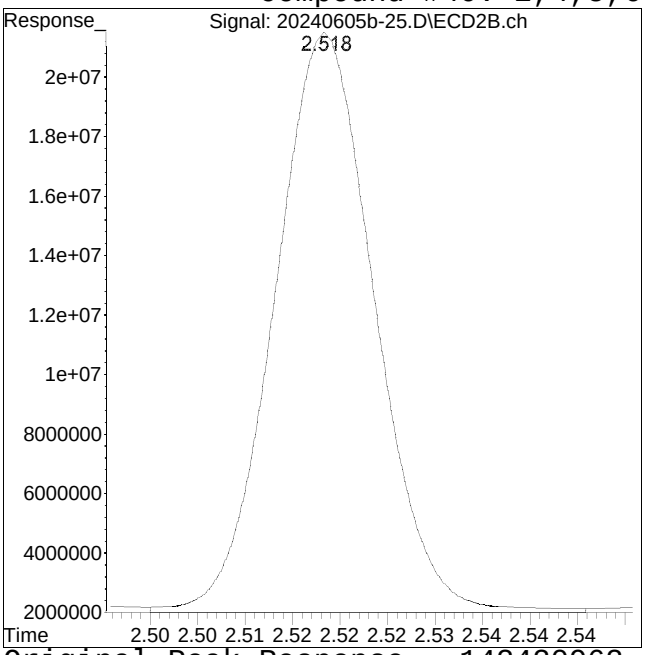


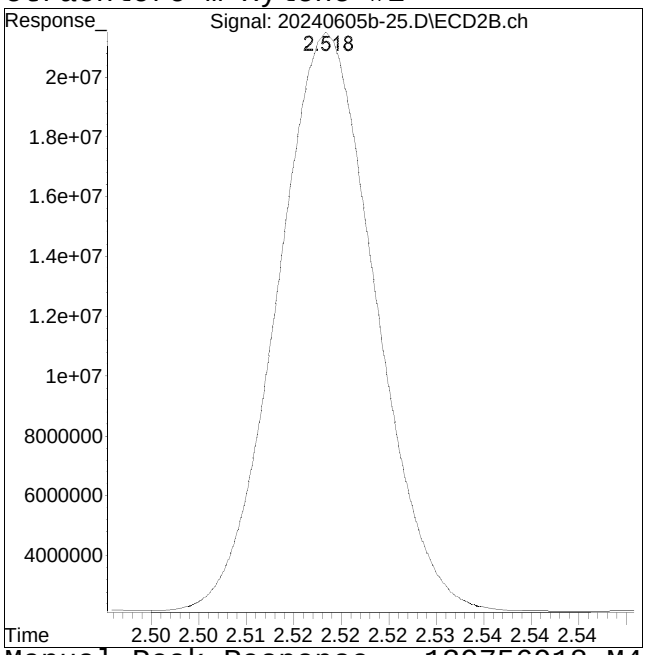
Original Peak Response = 96267034 Manual Peak Response = 93461075 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-25.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:07 Instrument : PEST 20
Sample : L2430219-03,42,, Quant Date : 6/6/2024 5:51 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



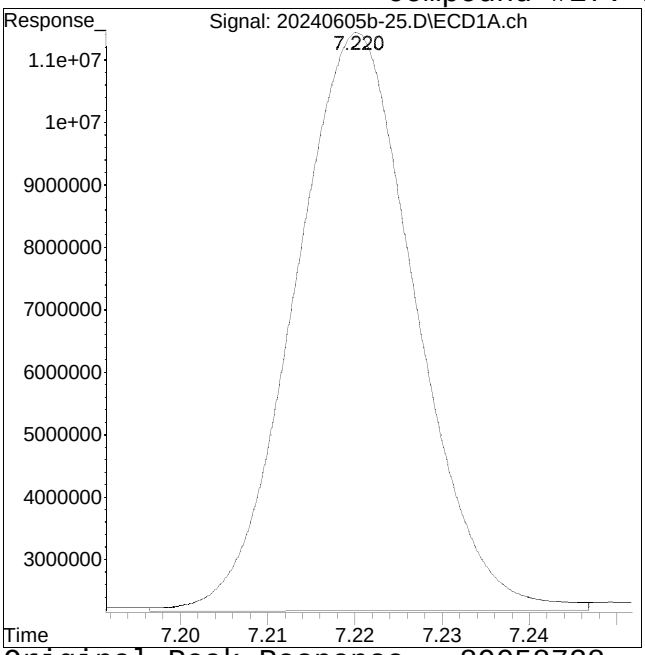


Original Peak Response = 142420962 Manual Peak Response = 139756918 M4
M4 = Poor automated baseline construction.

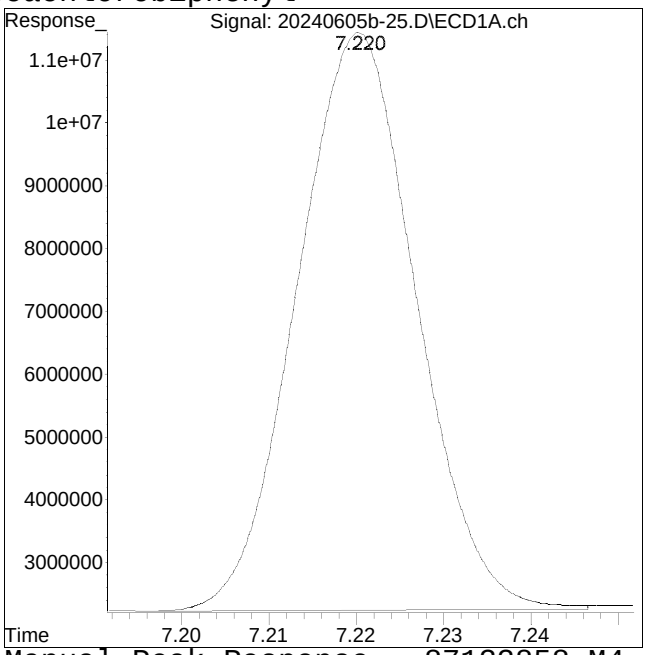
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-25.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:07 Instrument : PEST 20
Sample : L2430219-03,42,, Quant Date : 6/6/2024 5:51 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 89058738



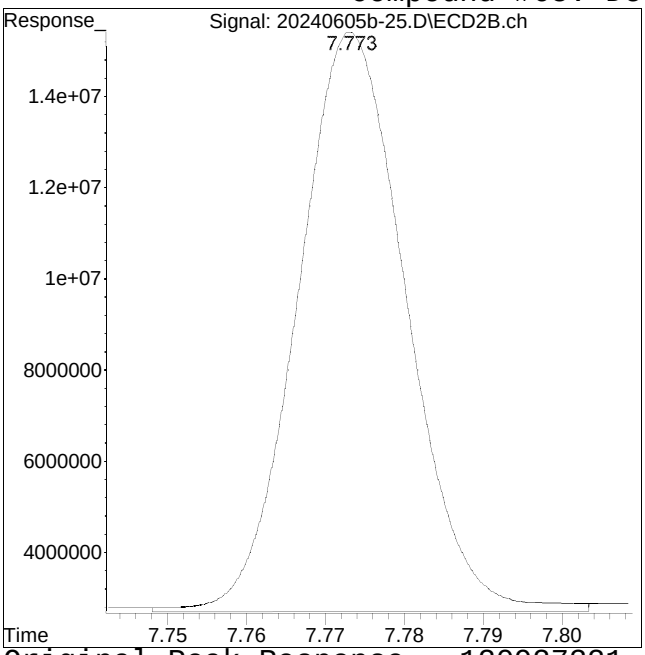
Manual Peak Response = 87133858 M4

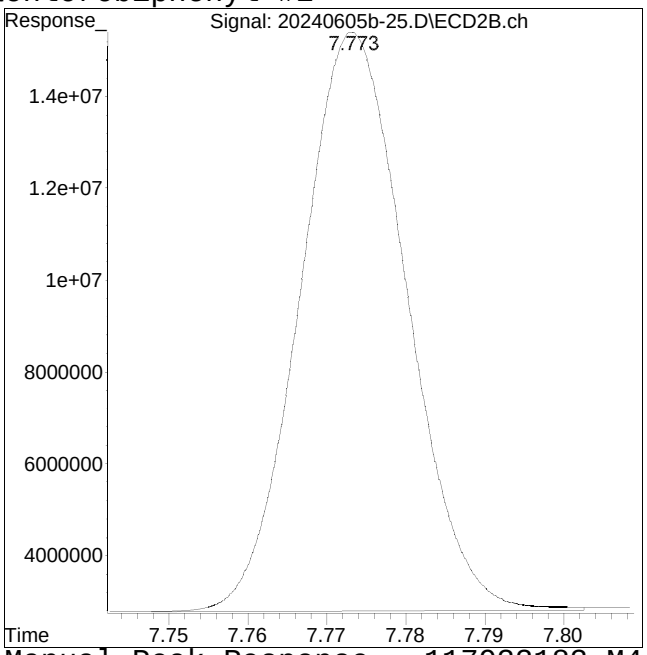
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-25.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:07 Instrument : PEST 20
Sample : L2430219-03,42,, Quant Date : 6/6/2024 5:51 am

Compound #65: Decachlorobiphenyl #2



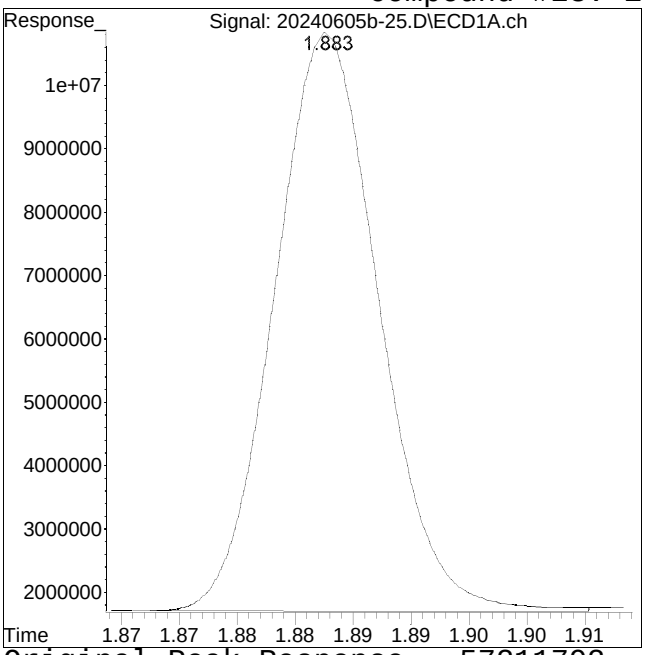


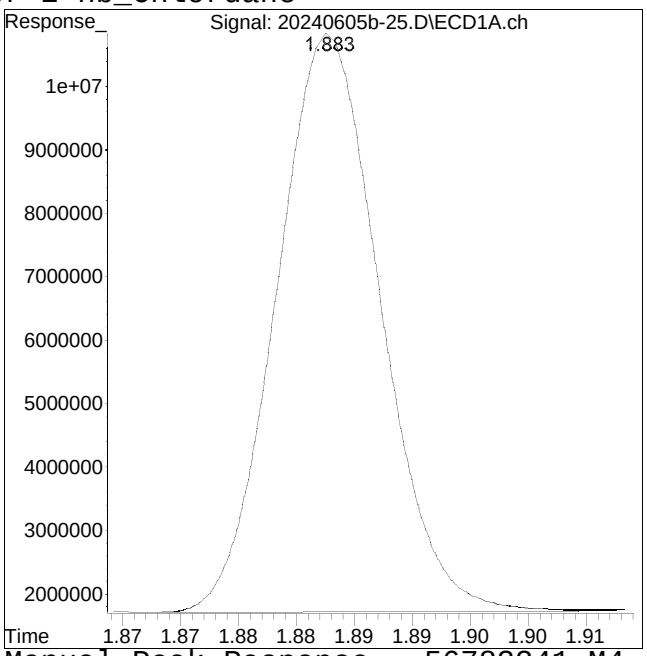
Original Peak Response = 120927321 Manual Peak Response = 117933183 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-25.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:07 Instrument : PEST 20
Sample : L2430219-03,42,, Quant Date : 6/6/2024 5:51 am

Compound #28: 1-br-2-nb_Chlordane



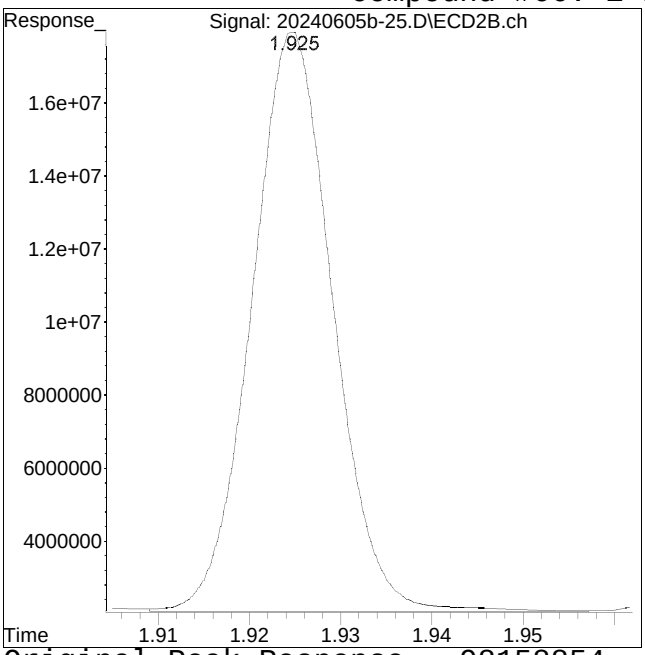


Original Peak Response = 57211792 Manual Peak Response = 56783341 M4
M4 = Poor automated baseline construction.

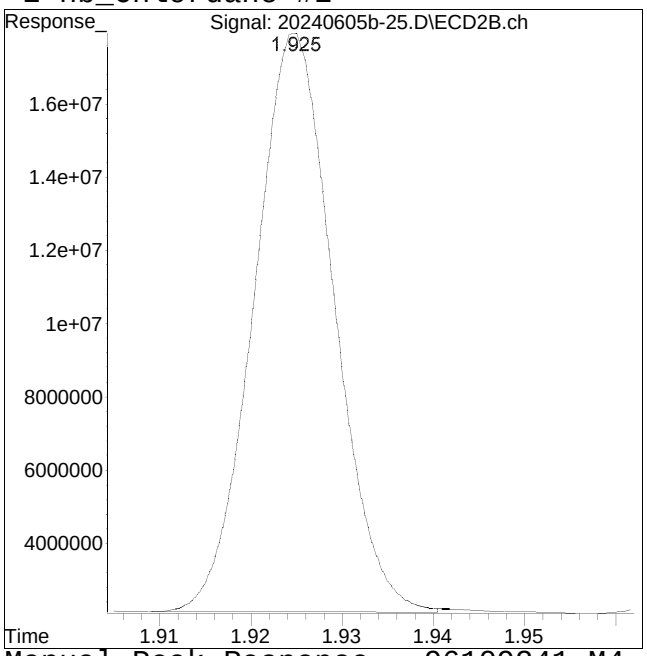
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-25.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:07 Instrument : PEST 20
Sample : L2430219-03,42,, Quant Date : 6/6/2024 5:51 am

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 98158854



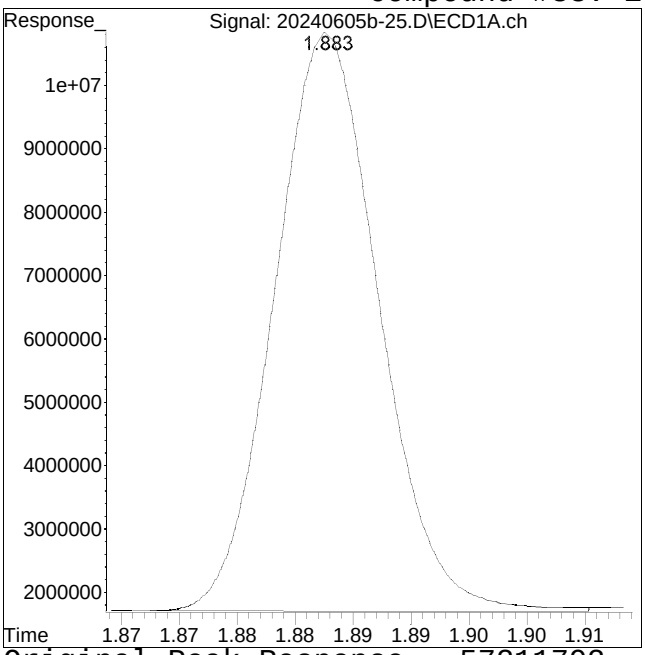
Manual Peak Response = 96109241 M4

M4 = Poor automated baseline construction.

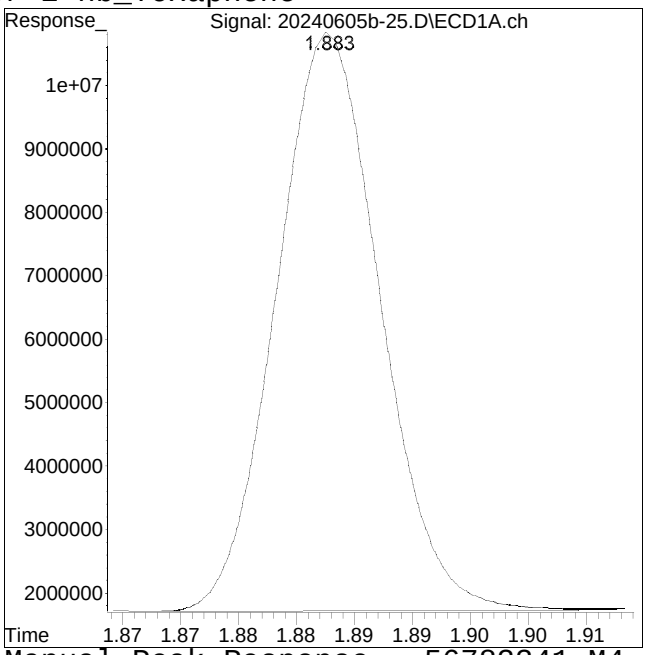
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-25.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:07 Instrument : PEST 20
Sample : L2430219-03,42,, Quant Date : 6/6/2024 5:51 am

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 57211792



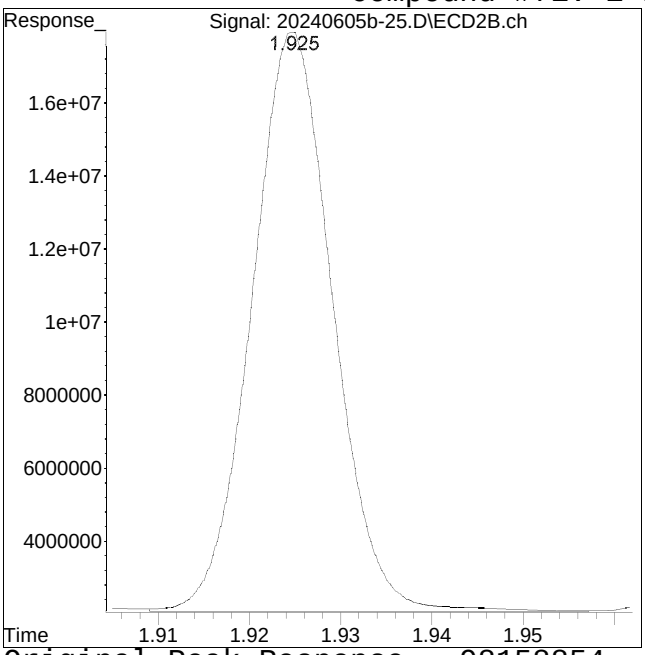
Manual Peak Response = 56783341 M4

M4 = Poor automated baseline construction.

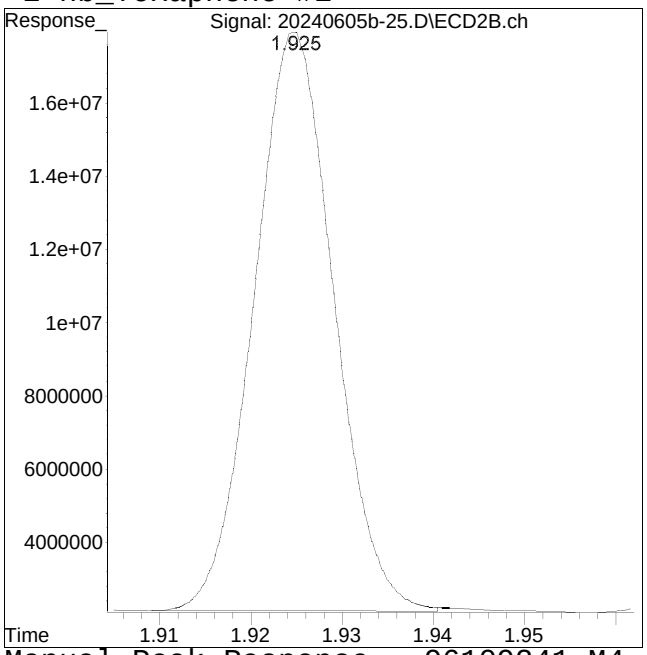
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-25.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:07 Instrument : PEST 20
Sample : L2430219-03,42,, Quant Date : 6/6/2024 5:51 am

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 98158854



Manual Peak Response = 96109241 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-26.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jun 2024 00:19
Operator : pest20:jag
Sample : L2430219-05,42,,
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:51:30 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240605b\20240605b-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.883	1.925	58415599	92175163	25.000M4	25.000M4
	Standard Area 1 : #1 = 60467879				Recovery =	96.61%	
	Standard Area 1 : #2 = 94939114				Recovery =	97.09%	
28) i	1-br-2-nb_Ch	1.883	1.925	58415599	92175163	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.883	1.925	58415599	92175163	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.349	2.519	87073363	128.9E6	32.393M4	31.525M4
	Spiked Amount 50.000	Range 30 - 150			Recovery =	64.79%	63.05%
27) s	Decachlorobi	7.221	7.774	83197539	112.3E6	35.421M4	34.423M4
	Spiked Amount 50.000	Range 30 - 150			Recovery =	70.84%	68.85%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-26.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jun 2024 00:19
Operator : pest20:jag
Sample : L2430219-05,42,,
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:51:30 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240605b\20240605b-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

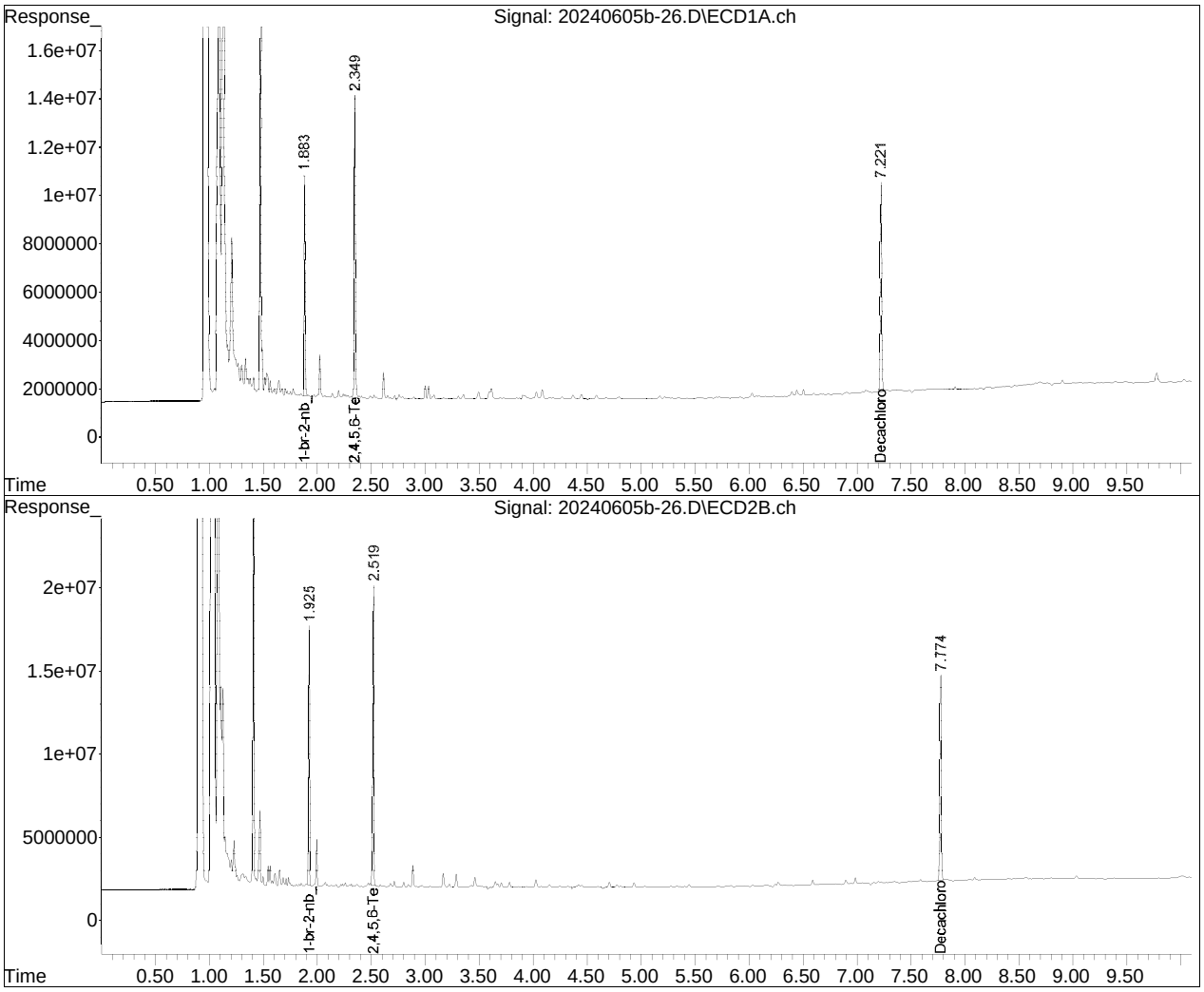
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedb\20240605b-03.D•

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-26.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jun 2024 00:19
Operator : pest20:jag
Sample : L2430219-05,42,,
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:51:30 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

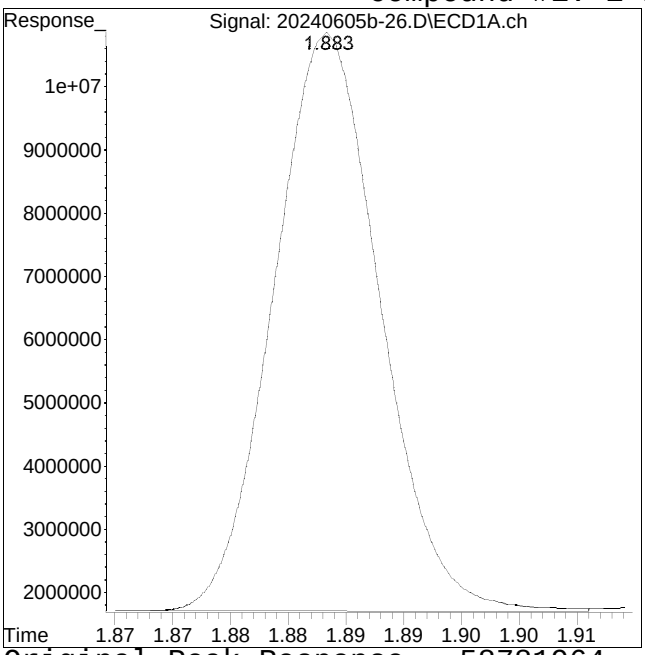
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



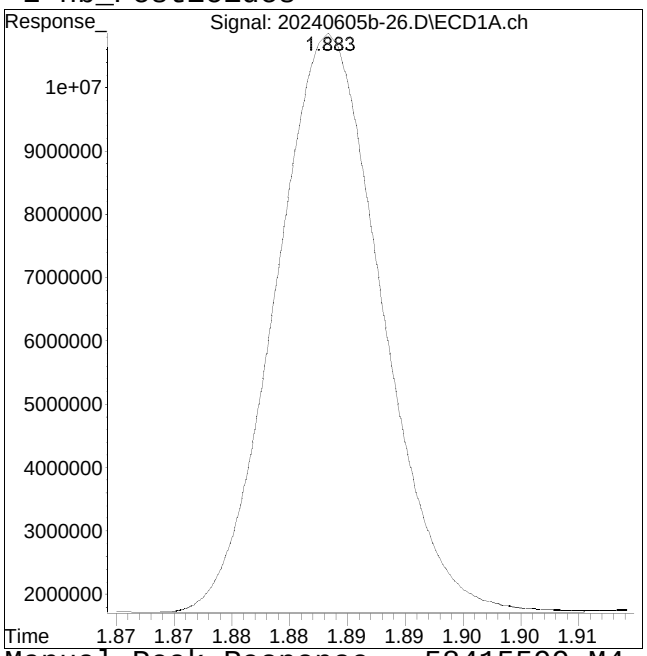
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-26.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:19 Instrument : PEST 20
Sample : L2430219-05,42,, Quant Date : 6/6/2024 5:51 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 58781964



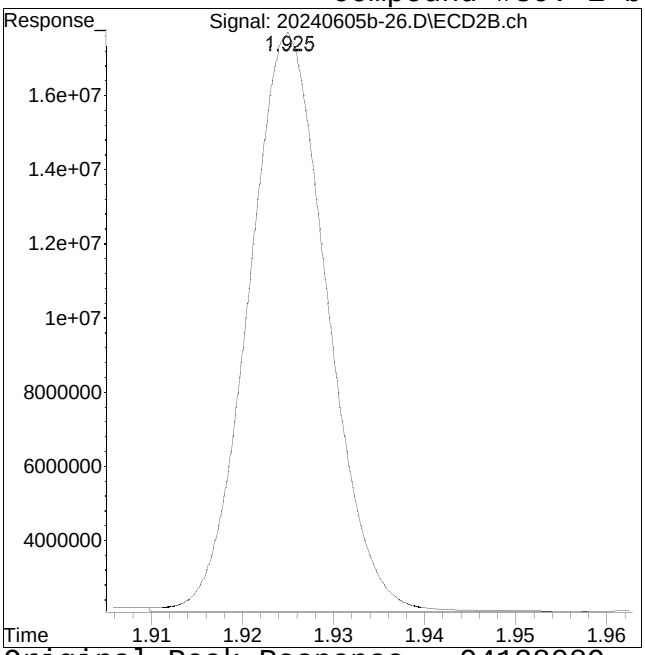
Manual Peak Response = 58415599 M4

M4 = Poor automated baseline construction.

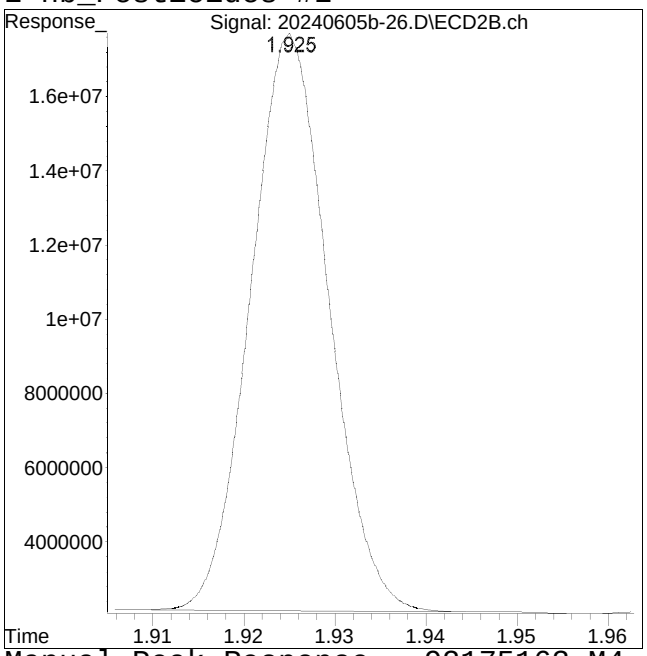
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-26.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:19 Instrument : PEST 20
Sample : L2430219-05,42,, Quant Date : 6/6/2024 5:51 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 94128089



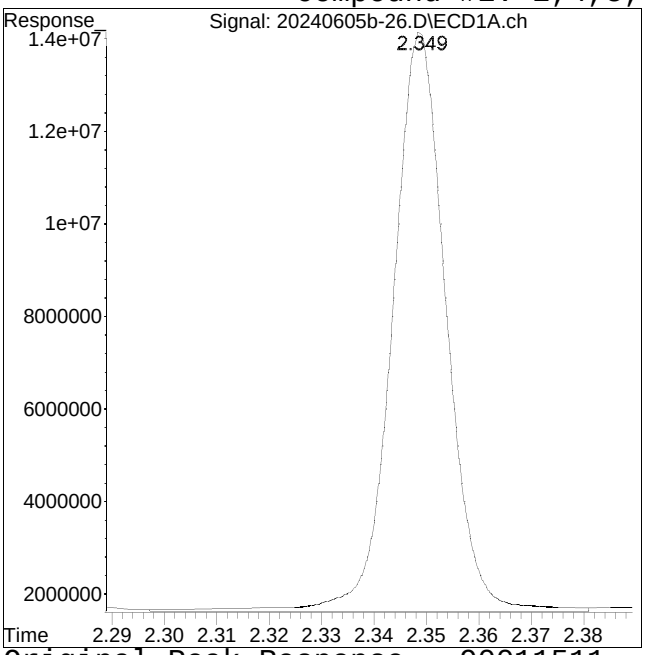
Manual Peak Response = 92175163 M4

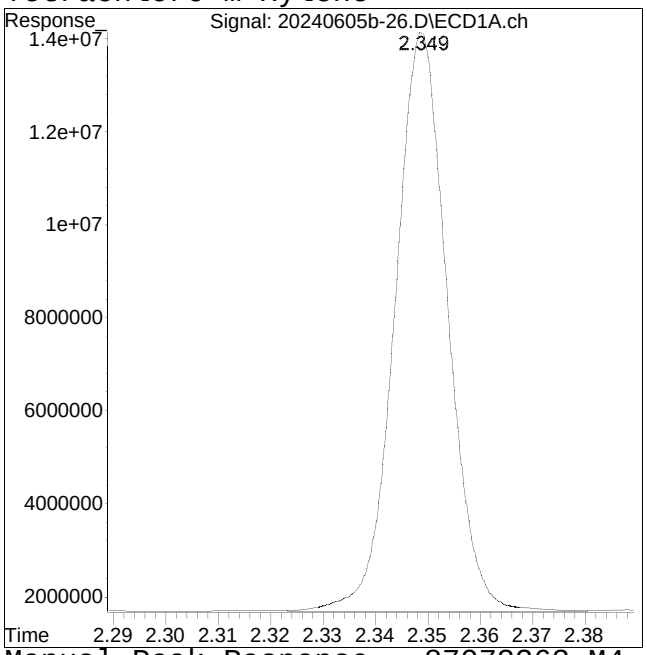
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-26.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:19 Instrument : PEST 20
Sample : L2430219-05,42,, Quant Date : 6/6/2024 5:51 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



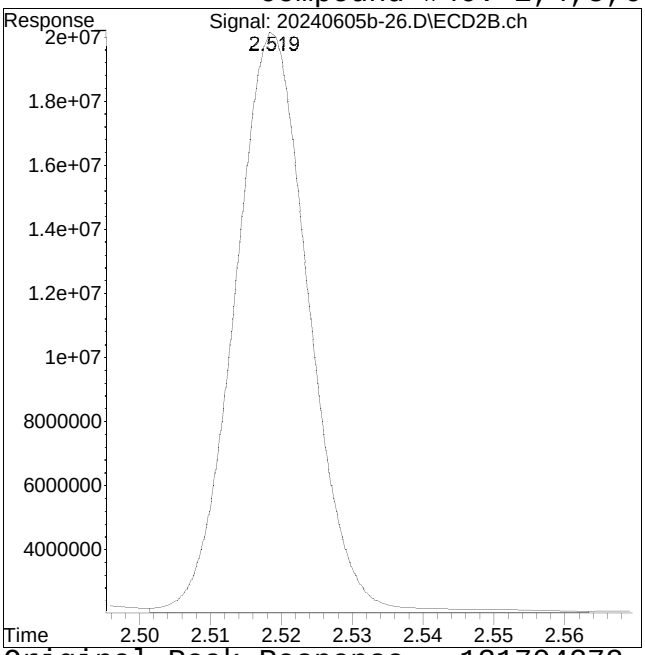


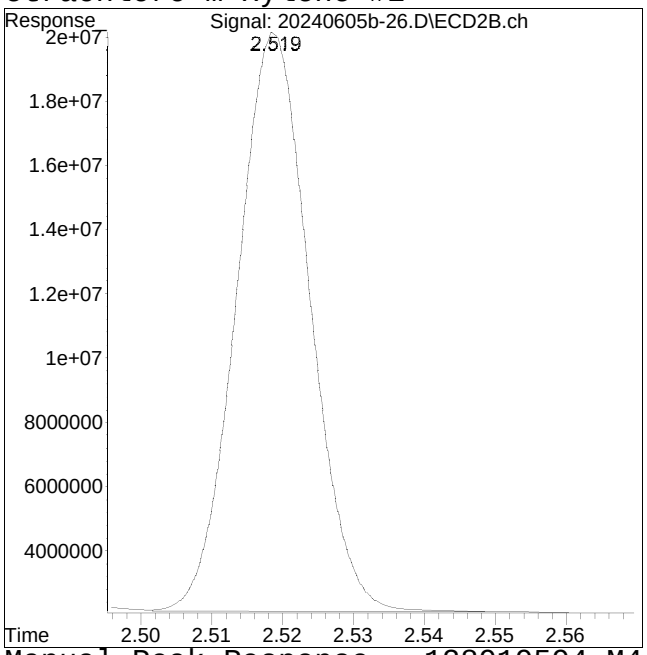
Original Peak Response = 90011511 Manual Peak Response = 87073363 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-26.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:19 Instrument : PEST 20
Sample : L2430219-05,42,, Quant Date : 6/6/2024 5:51 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



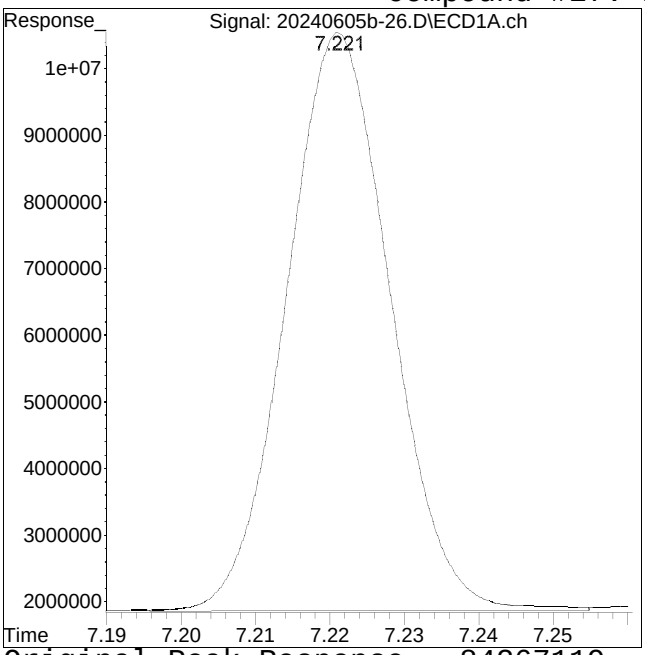


Original Peak Response = 131704272 Manual Peak Response = 128919594 M4
M4 = Poor automated baseline construction.

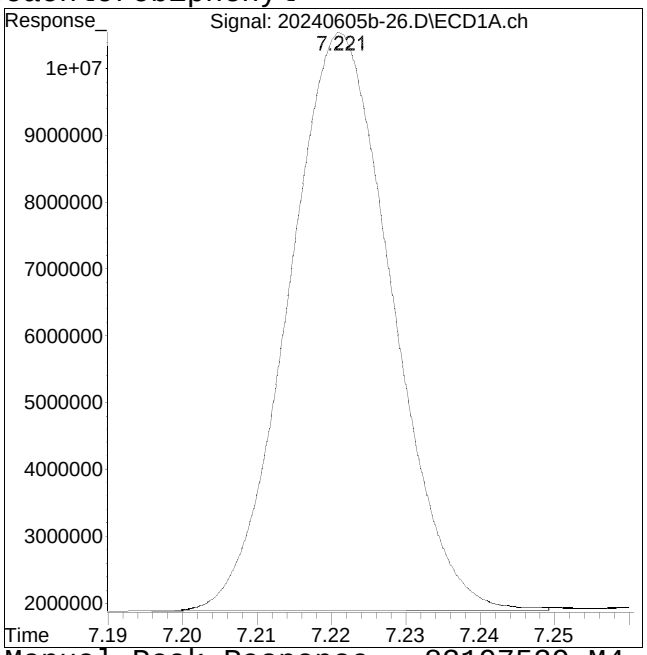
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-26.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:19 Instrument : PEST 20
Sample : L2430219-05,42,, Quant Date : 6/6/2024 5:51 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 84267119



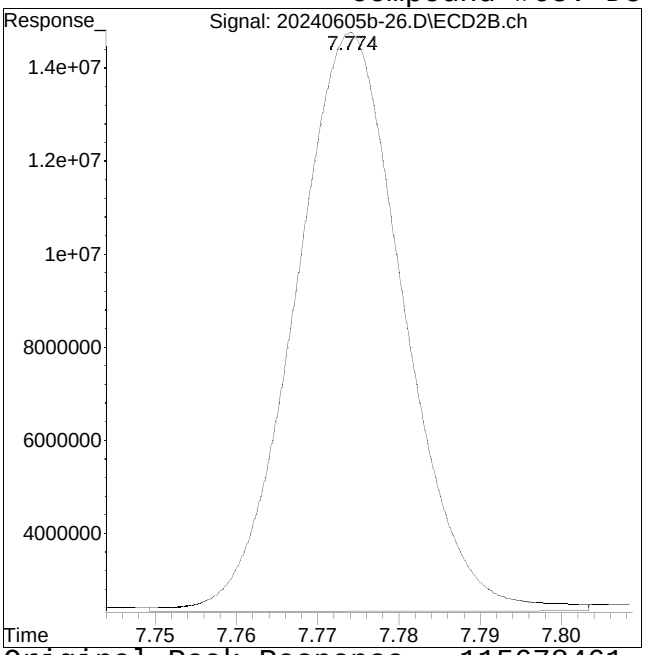
Manual Peak Response = 83197539 M4

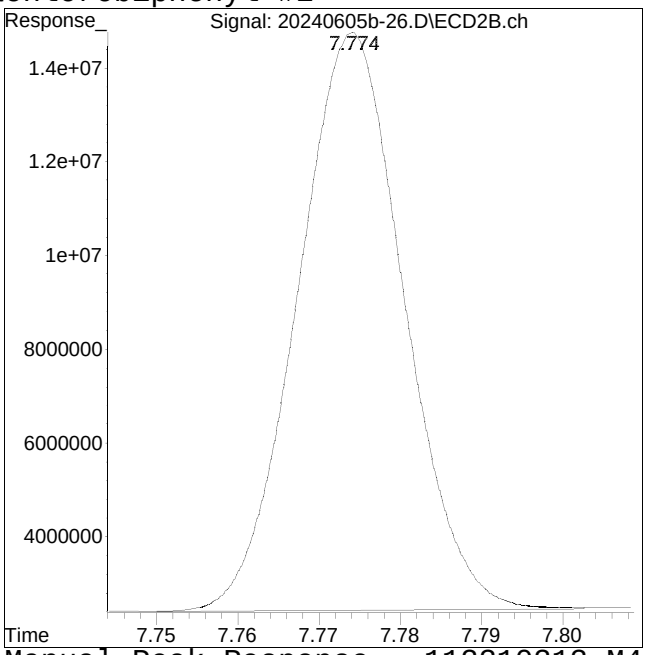
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-26.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:19 Instrument : PEST 20
Sample : L2430219-05,42,, Quant Date : 6/6/2024 5:51 am

Compound #65: Decachlorobiphenyl #2



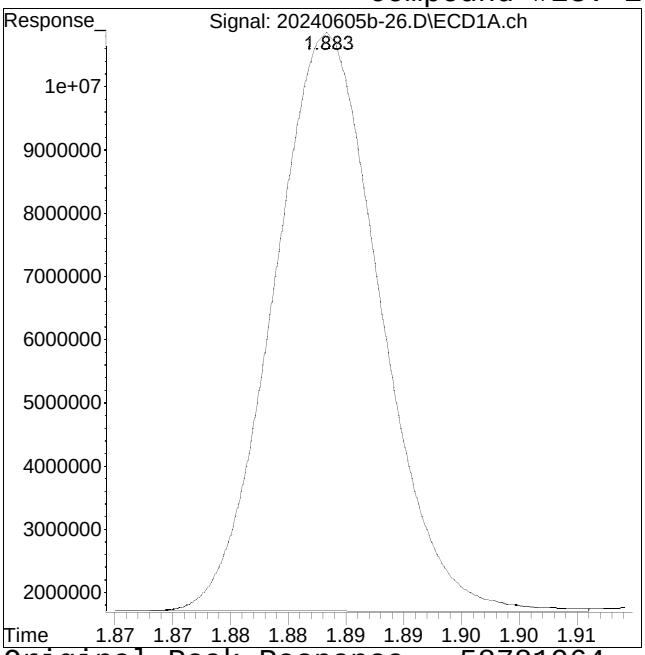


Original Peak Response = 115678461 Manual Peak Response = 112310313 M4
M4 = Poor automated baseline construction.

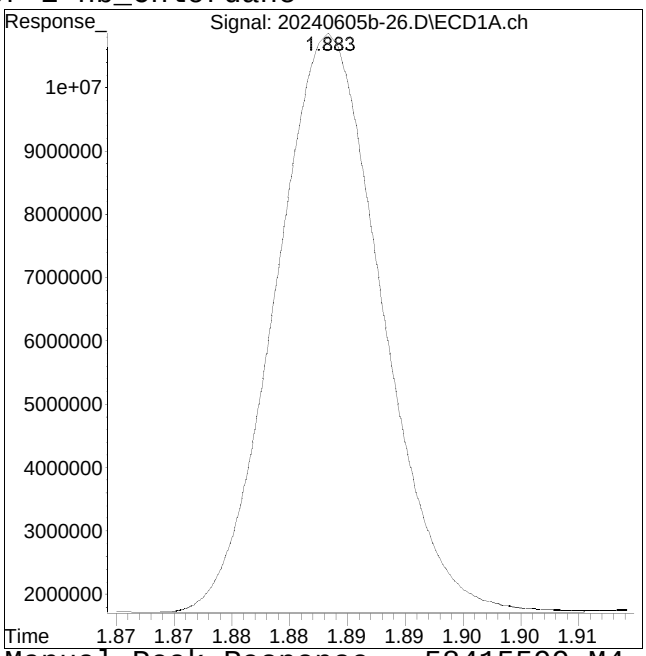
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-26.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:19 Instrument : PEST 20
Sample : L2430219-05,42,, Quant Date : 6/6/2024 5:51 am

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 58781964



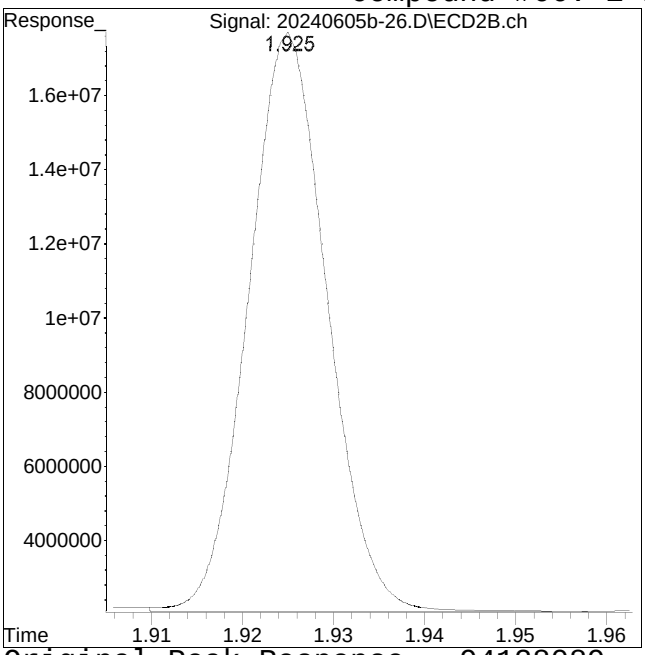
Manual Peak Response = 58415599 M4

M4 = Poor automated baseline construction.

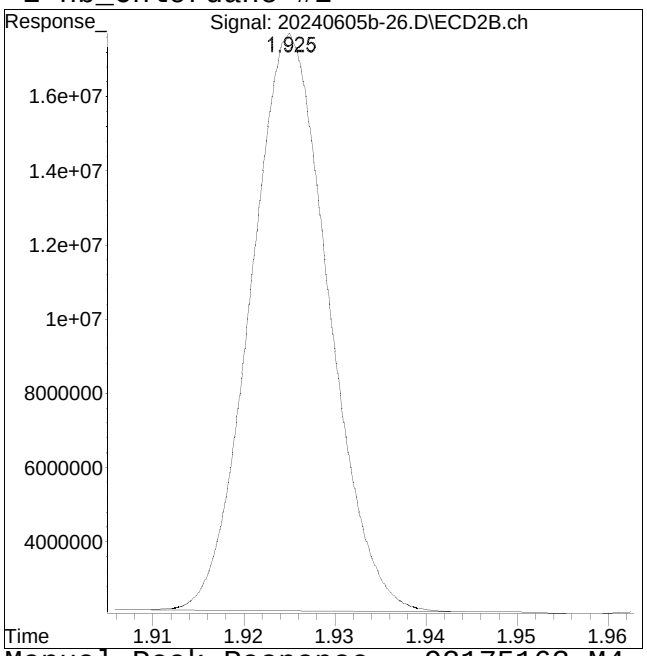
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-26.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:19 Instrument : PEST 20
Sample : L2430219-05,42,, Quant Date : 6/6/2024 5:51 am

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 94128089



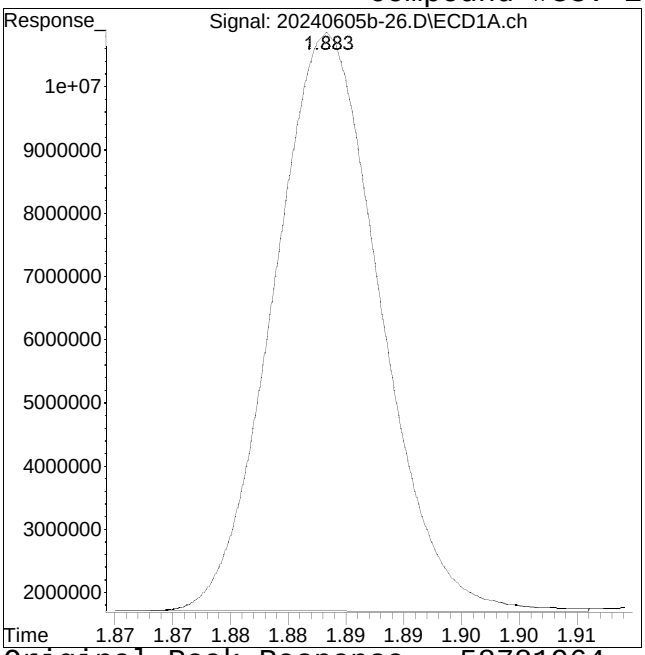
Manual Peak Response = 92175163 M4

M4 = Poor automated baseline construction.

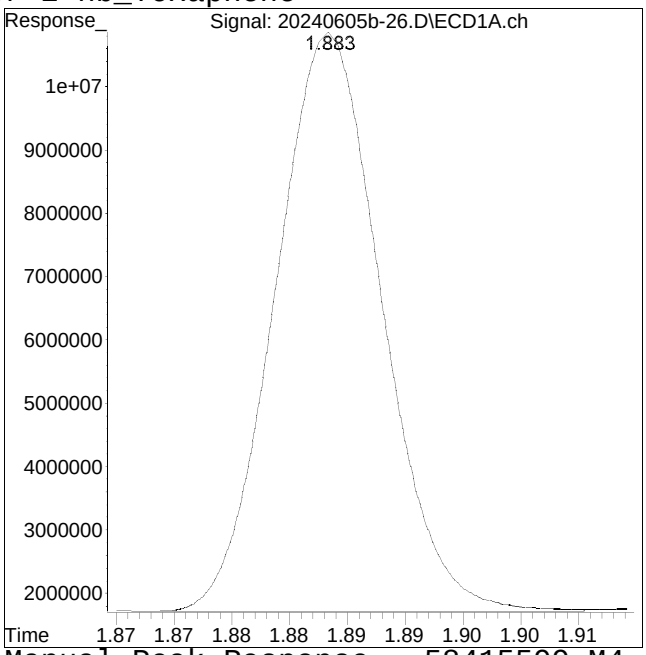
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-26.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:19 Instrument : PEST 20
Sample : L2430219-05,42,, Quant Date : 6/6/2024 5:51 am

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 58781964



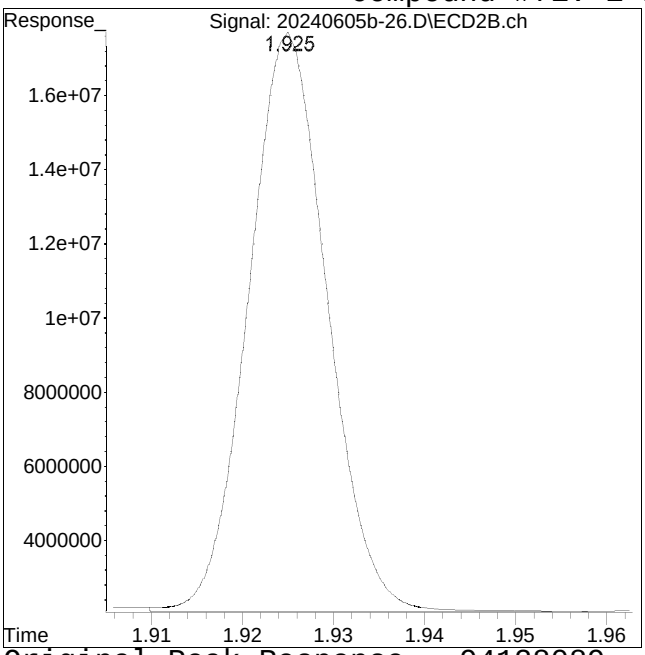
Manual Peak Response = 58415599 M4

M4 = Poor automated baseline construction.

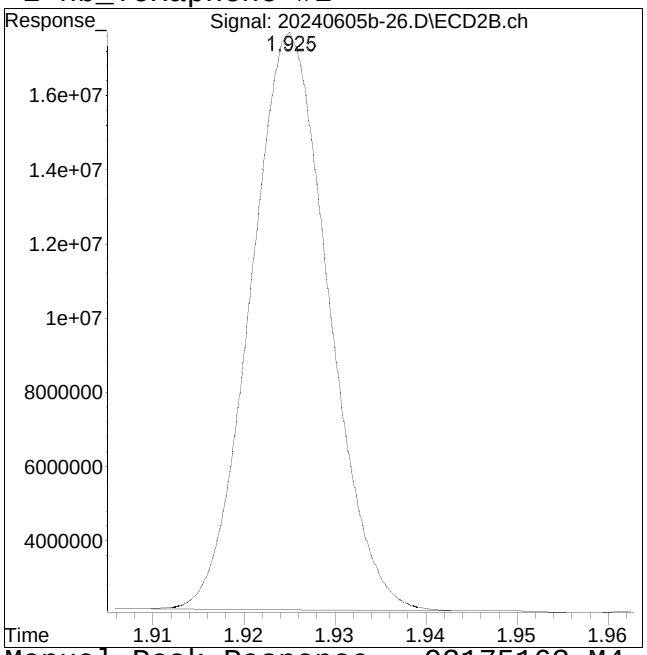
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-26.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:19 Instrument : PEST 20
Sample : L2430219-05,42,, Quant Date : 6/6/2024 5:51 am

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 94128089



Manual Peak Response = 92175163 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-27.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jun 2024 00:31
Operator : pest20:jag
Sample : L2430219-06,42,,
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:51:33 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240605b\20240605b-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.883	1.925	63285999	101.5E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 60467879				Recovery = 104.66%		
	Standard Area 1 : #2 = 94939114				Recovery = 106.87%		
28) i	1-br-2-nb_Ch	1.883	1.925	63285999	101.5E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.883	1.925	63285999	101.5E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.348	2.518	95953455	143.9E6	32.949M4	31.974M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 65.90%		63.95%
27) s	Decachlorobi	7.221	7.774	79474424	115.5E6	31.082M4	32.076M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 62.16%		64.15%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-27.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jun 2024 00:31
Operator : pest20:jag
Sample : L2430219-06,42,,
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:51:33 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240605b\20240605b-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

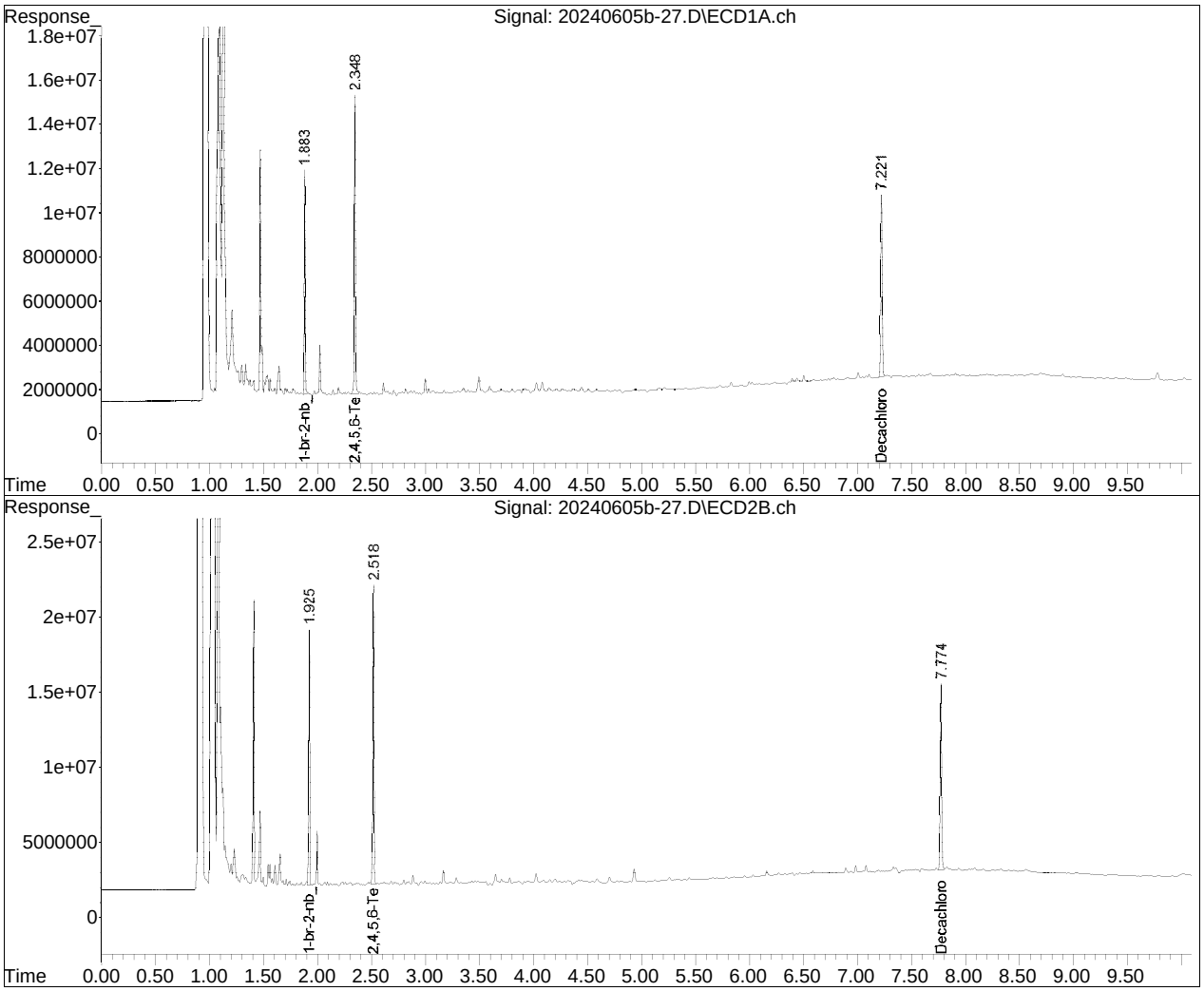
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedb\20240605b-03.D•

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-27.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jun 2024 00:31
Operator : pest20:jag
Sample : L2430219-06,42,,
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:51:33 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

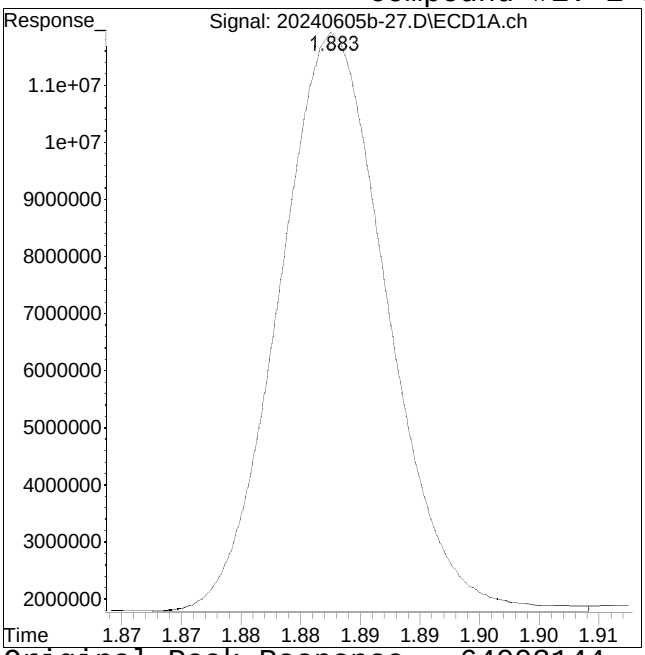
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



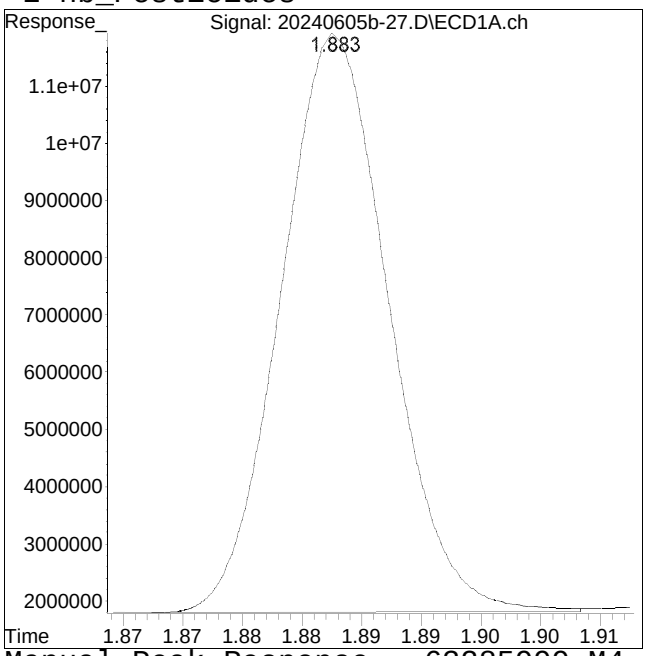
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-27.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:31 Instrument : PEST 20
Sample : L2430219-06,42,, Quant Date : 6/6/2024 5:51 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 64003144



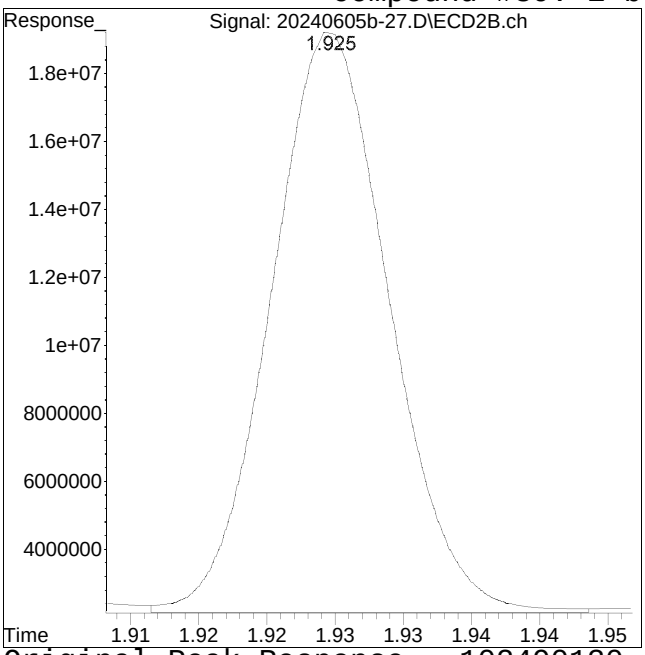
Manual Peak Response = 63285999 M4

M4 = Poor automated baseline construction.

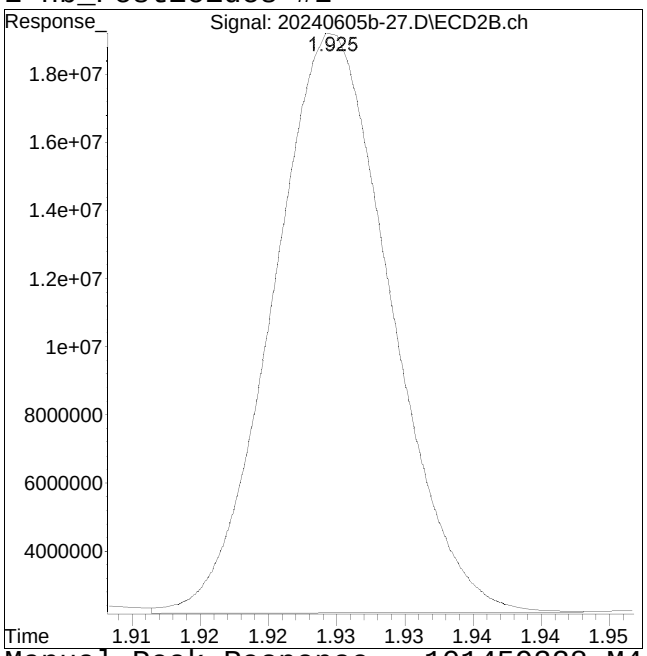
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-27.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:31 Instrument : PEST 20
Sample : L2430219-06,42,, Quant Date : 6/6/2024 5:51 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 102490130



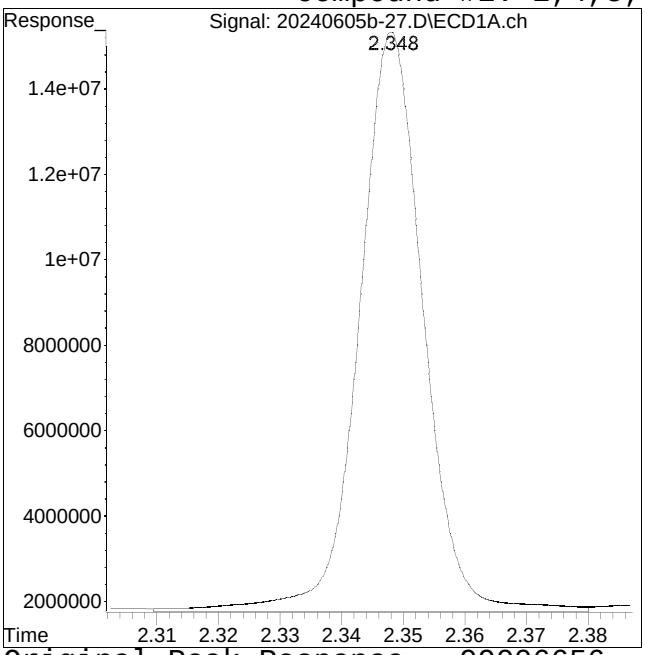
Manual Peak Response = 101459328 M4

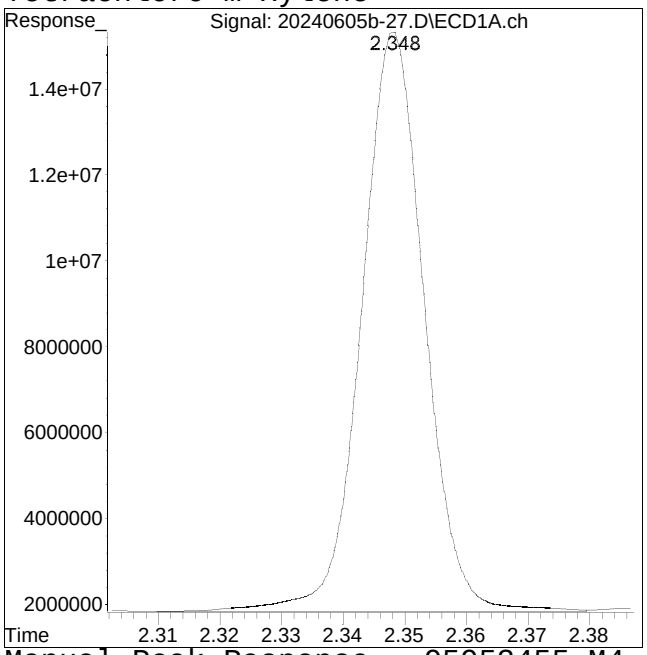
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-27.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:31 Instrument : PEST 20
Sample : L2430219-06,42,, Quant Date : 6/6/2024 5:51 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



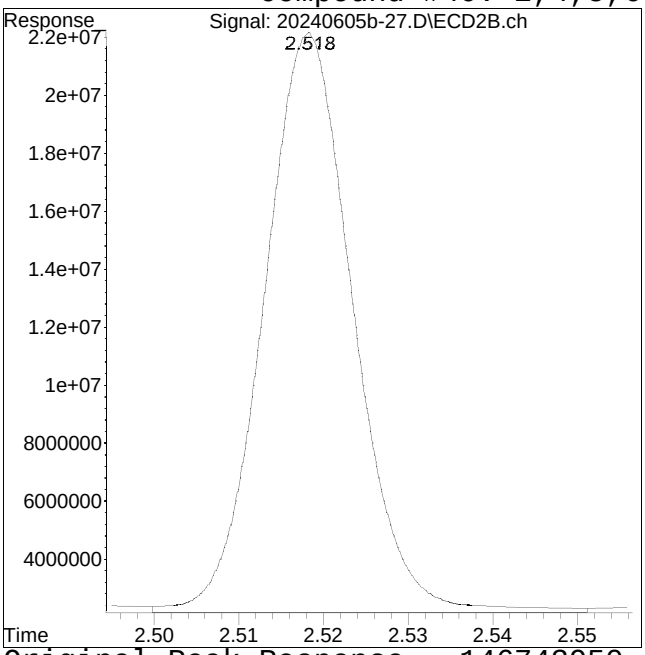


Original Peak Response = 99006656 Manual Peak Response = 95953455 M4
M4 = Poor automated baseline construction.

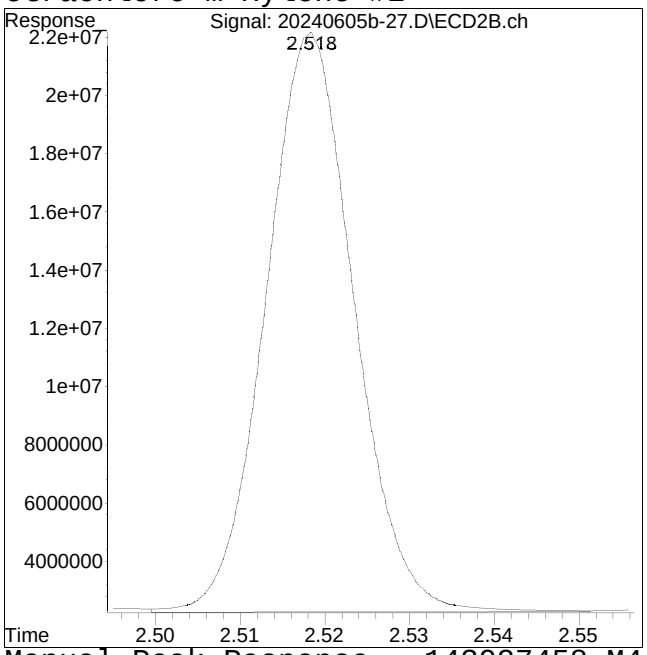
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-27.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:31 Instrument : PEST 20
Sample : L2430219-06,42,, Quant Date : 6/6/2024 5:51 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 146743950



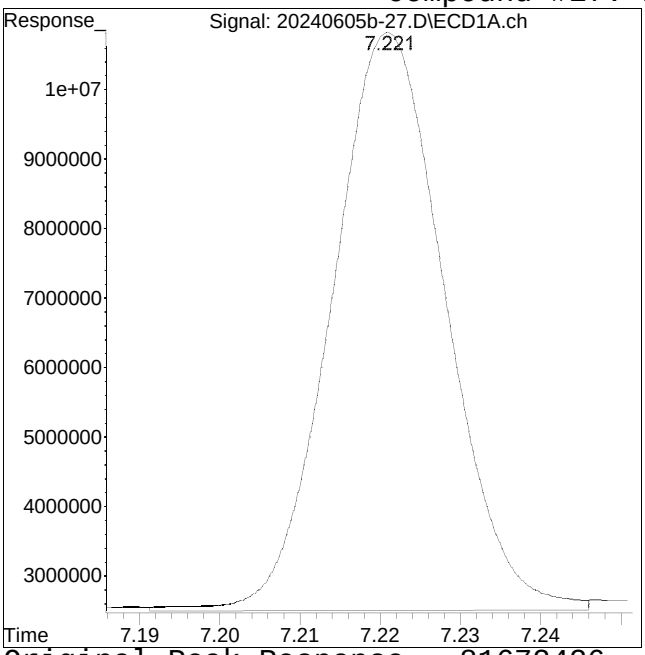
Manual Peak Response = 143927458 M4

M4 = Poor automated baseline construction.

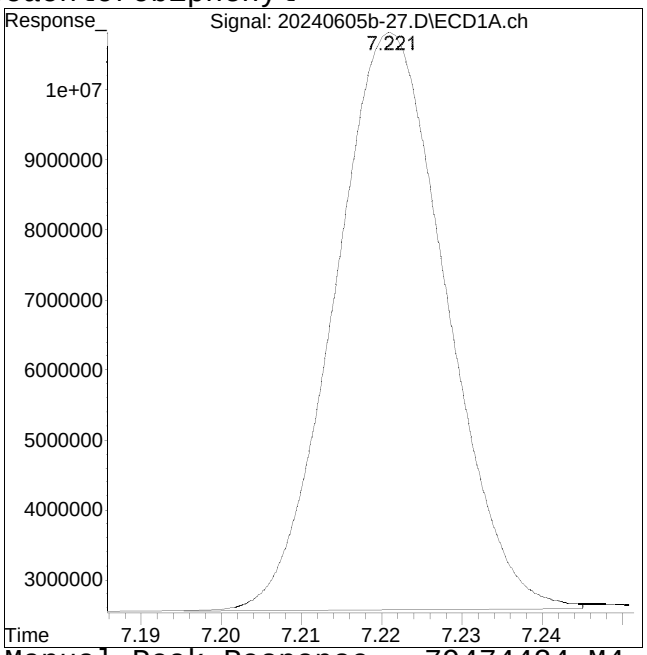
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-27.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:31 Instrument : PEST 20
Sample : L2430219-06,42,, Quant Date : 6/6/2024 5:51 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 81672426



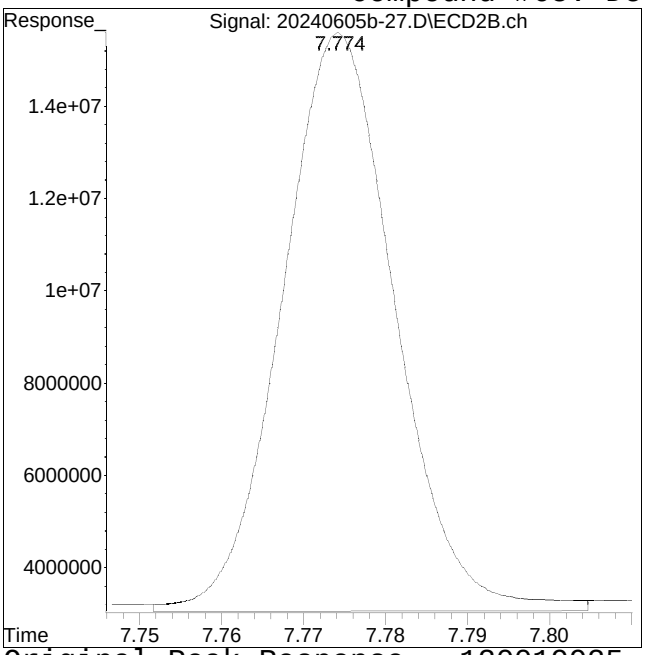
Manual Peak Response = 79474424 M4

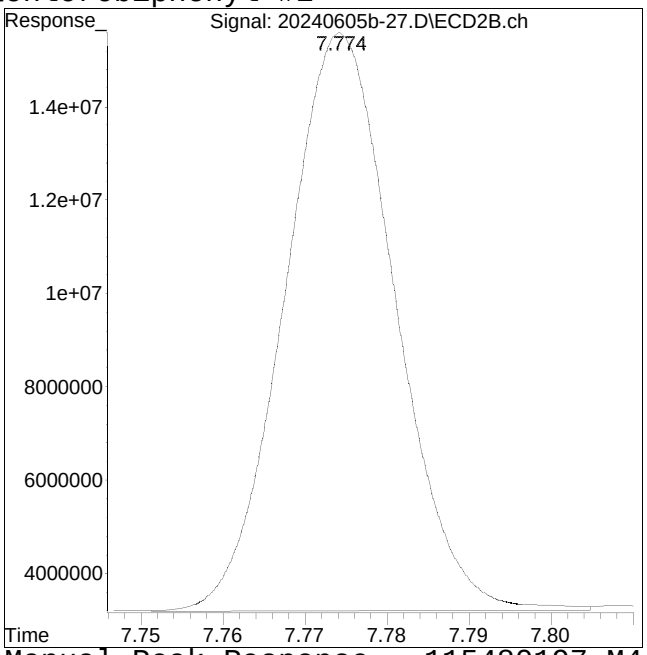
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-27.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:31 Instrument : PEST 20
Sample : L2430219-06,42,, Quant Date : 6/6/2024 5:51 am

Compound #65: Decachlorobiphenyl #2



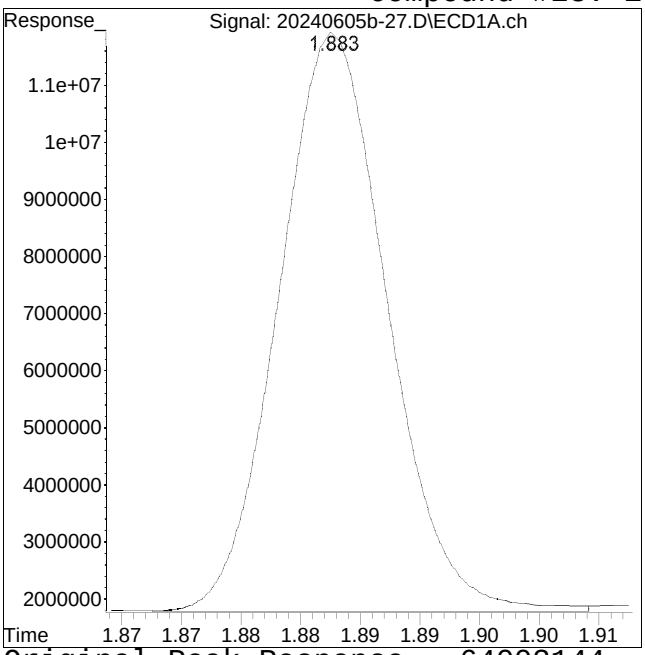


Original Peak Response = 120019925 Manual Peak Response = 115480197 M4
M4 = Poor automated baseline construction.

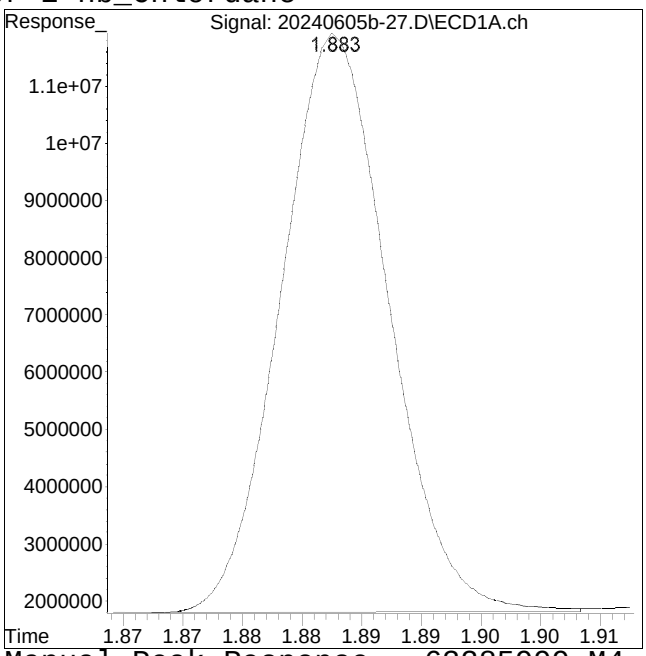
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-27.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:31 Instrument : PEST 20
Sample : L2430219-06,42,, Quant Date : 6/6/2024 5:51 am

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 64003144



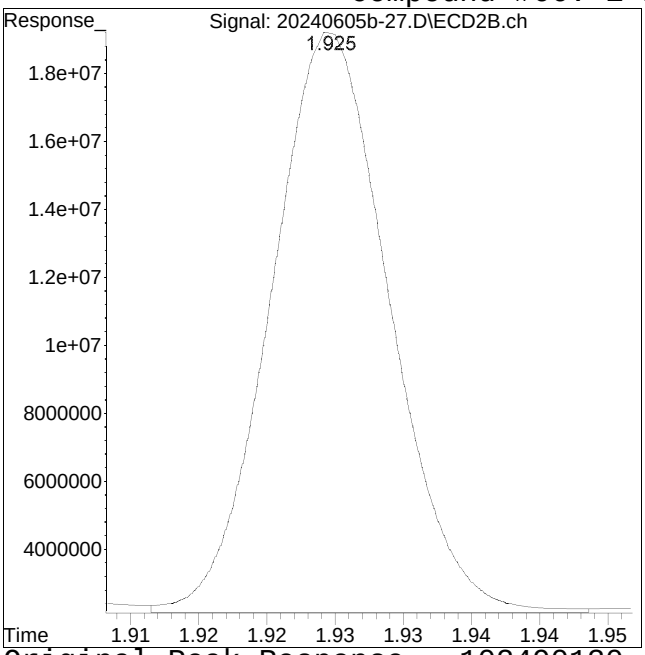
Manual Peak Response = 63285999 M4

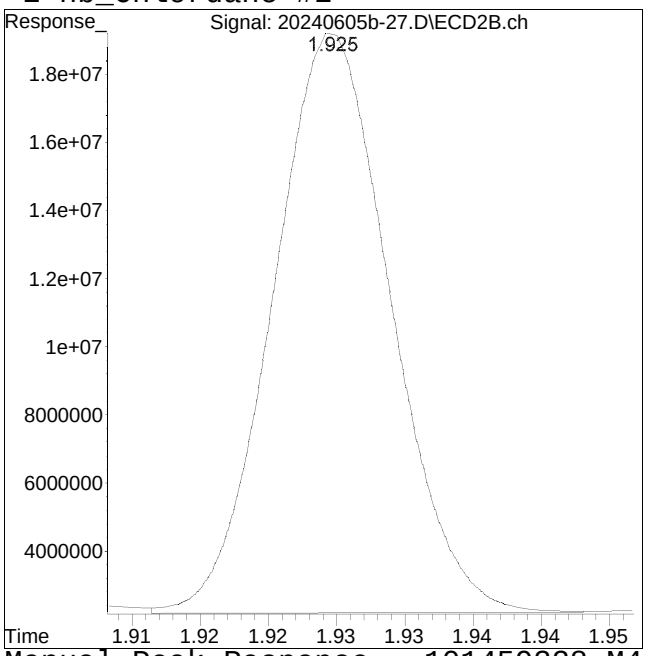
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-27.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:31 Instrument : PEST 20
Sample : L2430219-06,42,, Quant Date : 6/6/2024 5:51 am

Compound #66: 1-br-2-nb_Chlordane #2



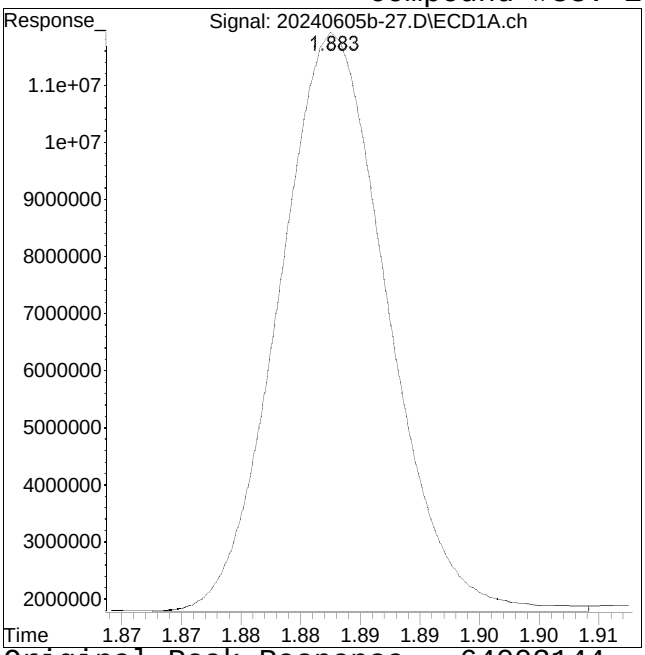


Original Peak Response = 102490130 Manual Peak Response = 101459328 M4
M4 = Poor automated baseline construction.

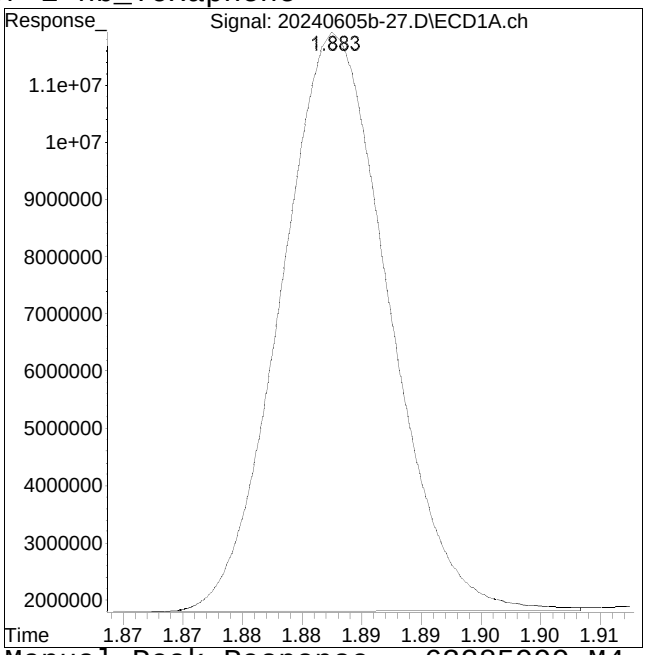
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-27.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:31 Instrument : PEST 20
Sample : L2430219-06,42,, Quant Date : 6/6/2024 5:51 am

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 64003144



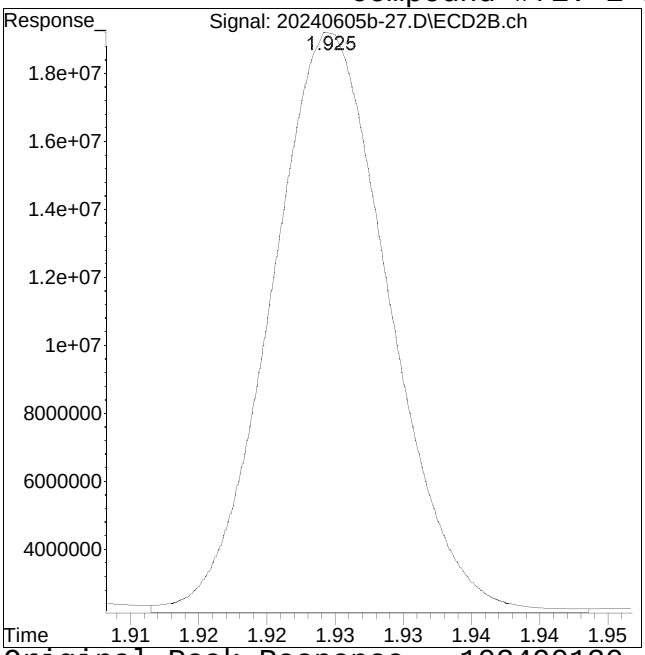
Manual Peak Response = 63285999 M4

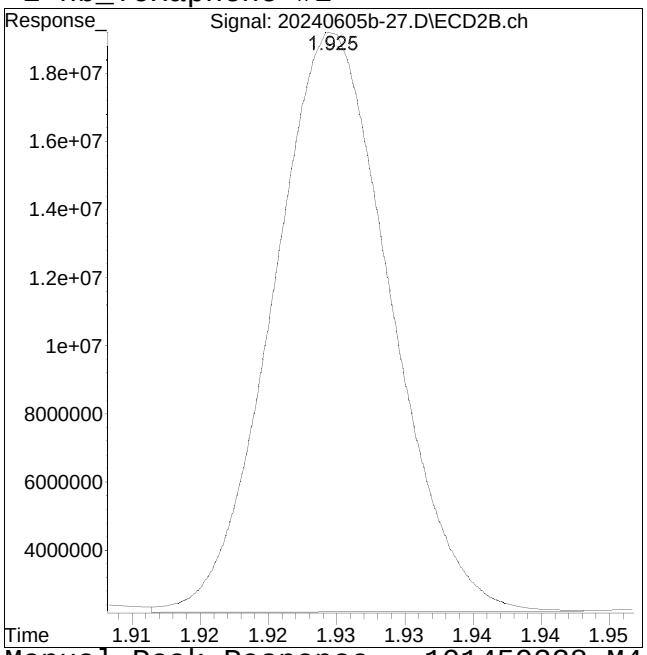
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-27.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:31 Instrument : PEST 20
Sample : L2430219-06,42,, Quant Date : 6/6/2024 5:51 am

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 102490130 Manual Peak Response = 101459328 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-28.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jun 2024 00:44
Operator : pest20:jag
Sample : L2430219-07,42,,
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:51:36 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240605b\20240605b-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.883	1.925	59665141	93839493	25.000M4	25.000M4
	Standard Area 1 : #1 = 60467879				Recovery =	98.67%	
	Standard Area 1 : #2 = 94939114				Recovery =	98.84%	
28) i	1-br-2-nb_Ch	1.883	1.925	59665141	93839493	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.883	1.925	59665141	93839493	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.348	2.519	102.2E6	153.5E6	37.214M4	36.860M4
	Spiked Amount	50.000	Range 30 - 150		Recovery =	74.43%	73.72%
27) s	Decachlorobi	7.223	7.778	95128217	131.8E6	39.804M4	39.873M4
	Spiked Amount	50.000	Range 30 - 150		Recovery =	79.61%	79.75%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-28.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jun 2024 00:44
Operator : pest20:jag
Sample : L2430219-07,42,,
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:51:36 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240605b\20240605b-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

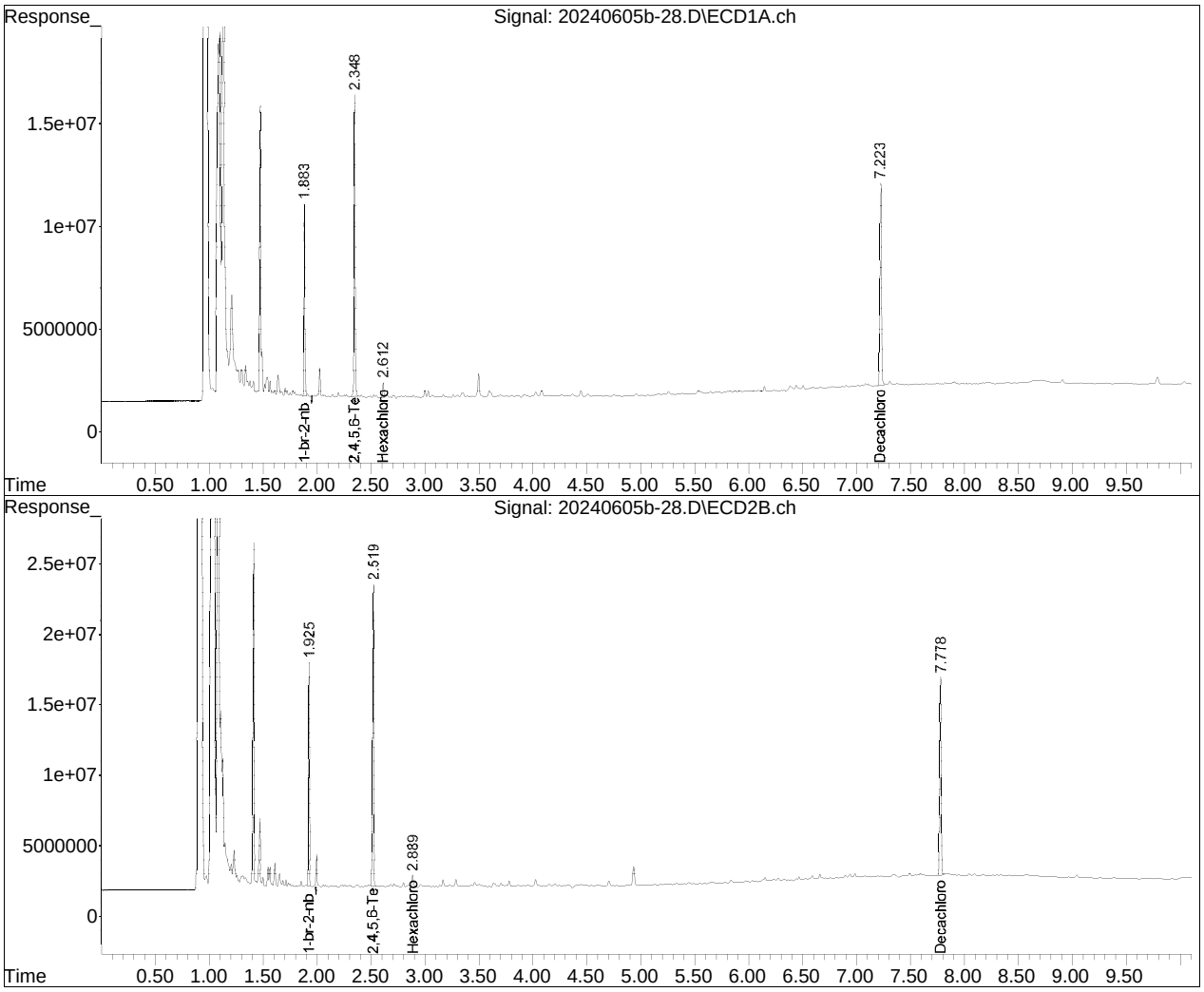
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedb\20240605b-03.D•

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-28.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jun 2024 00:44
Operator : pest20:jag
Sample : L2430219-07,42,,
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:51:36 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

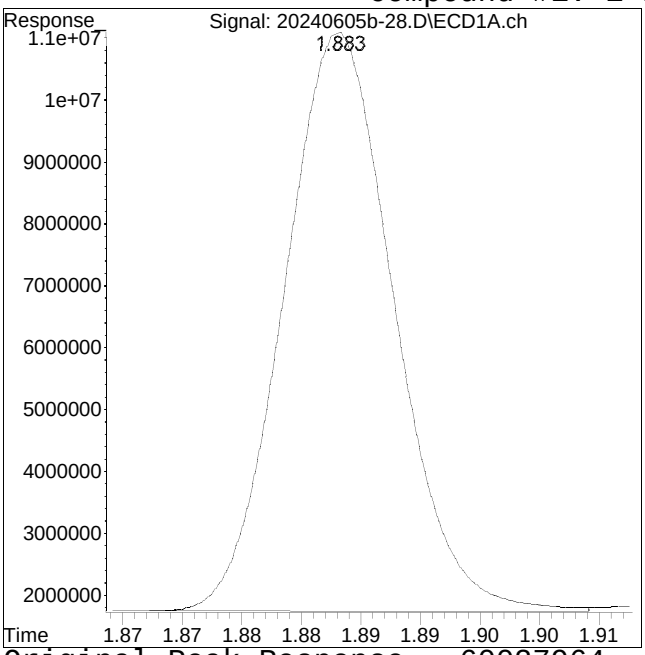
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



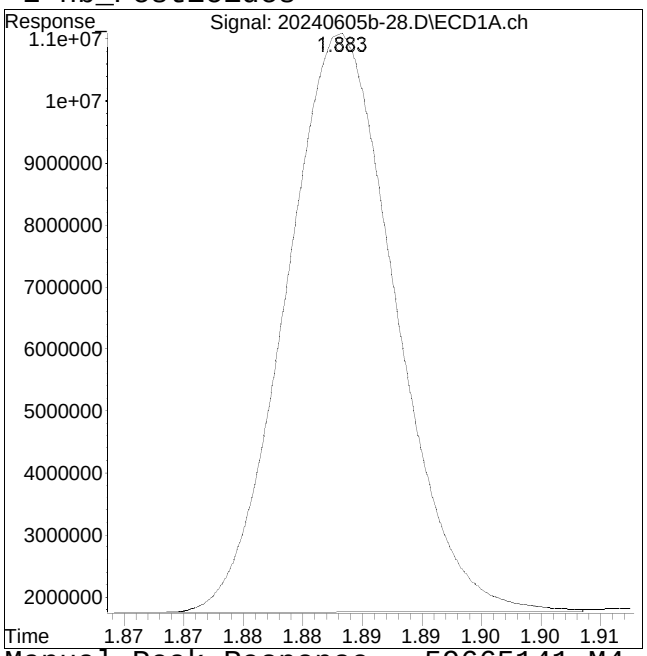
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-28.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:44 Instrument : PEST 20
Sample : L2430219-07,42,, Quant Date : 6/6/2024 5:51 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 60027964



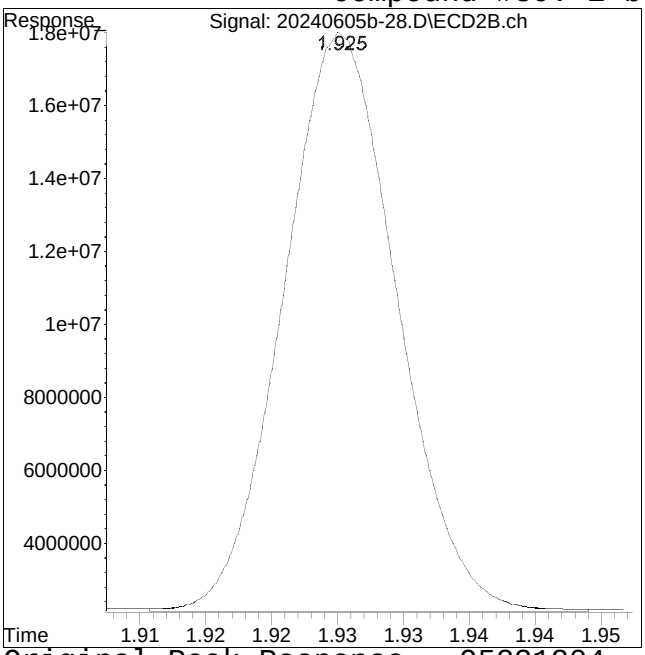
Manual Peak Response = 59665141 M4

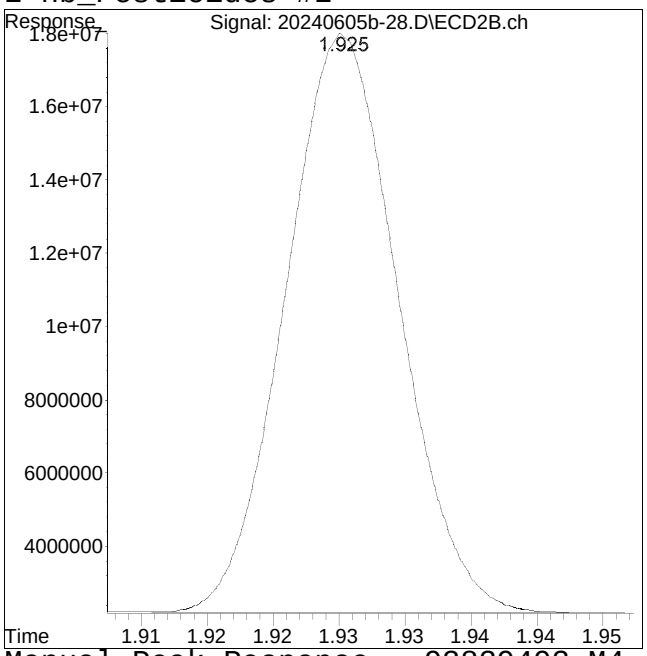
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-28.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:44 Instrument : PEST 20
Sample : L2430219-07,42,, Quant Date : 6/6/2024 5:51 am

Compound #39: 1-br-2-nb_Pesticides #2



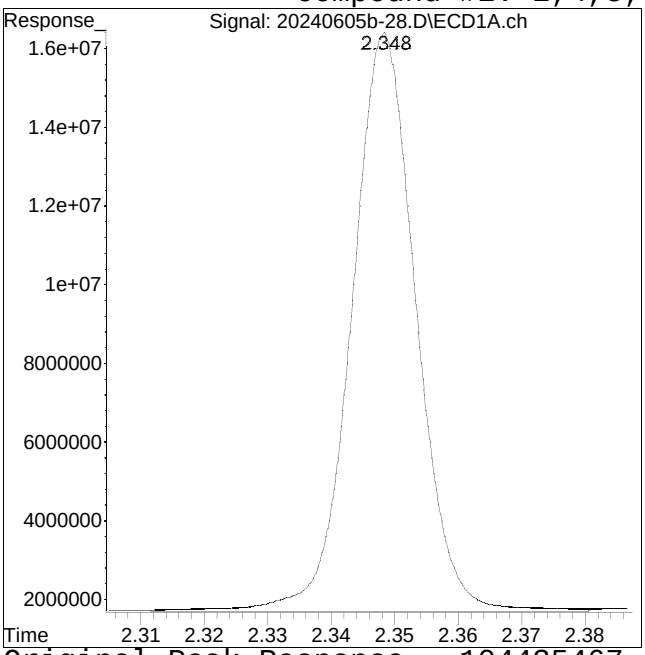


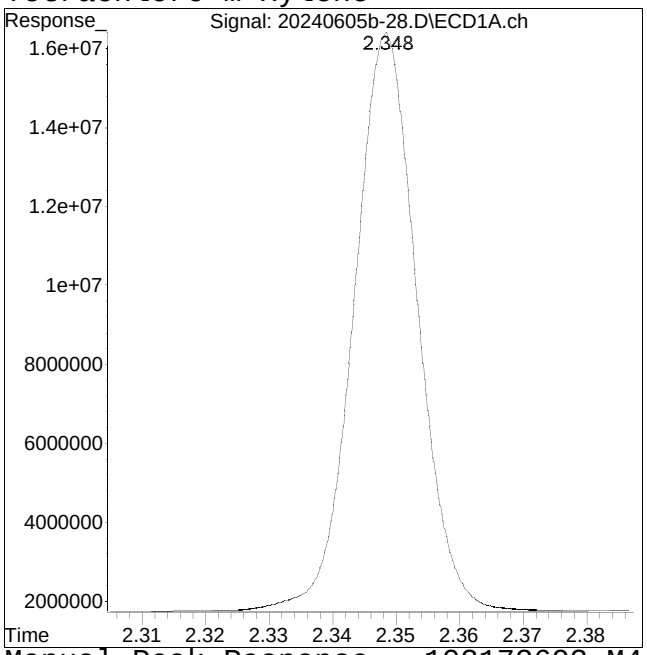
Original Peak Response = 95231204 Manual Peak Response = 93839493 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-28.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:44 Instrument : PEST 20
Sample : L2430219-07,42,, Quant Date : 6/6/2024 5:51 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



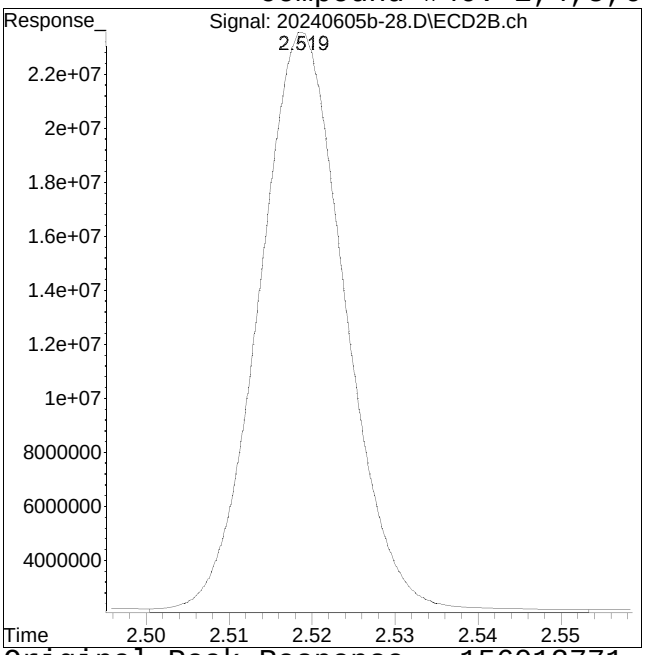


Original Peak Response = 104435467 Manual Peak Response = 102172693 M4
M4 = Poor automated baseline construction.

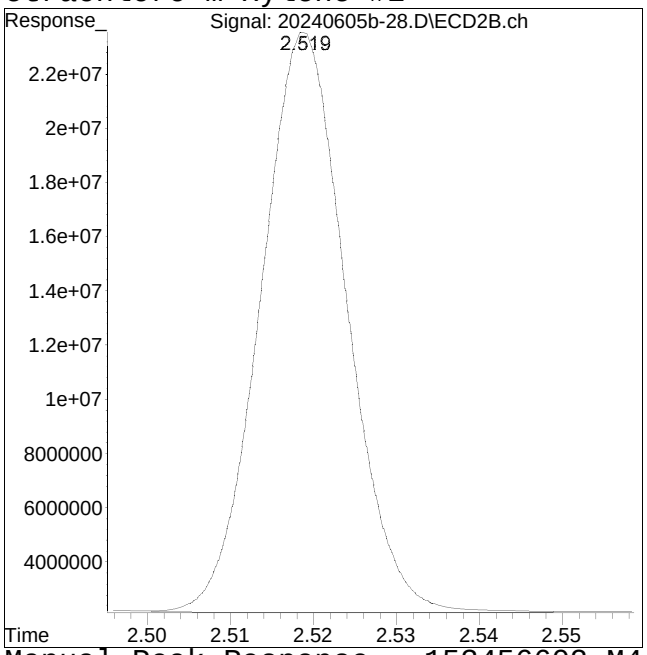
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-28.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:44 Instrument : PEST 20
Sample : L2430219-07,42,, Quant Date : 6/6/2024 5:51 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 156012771



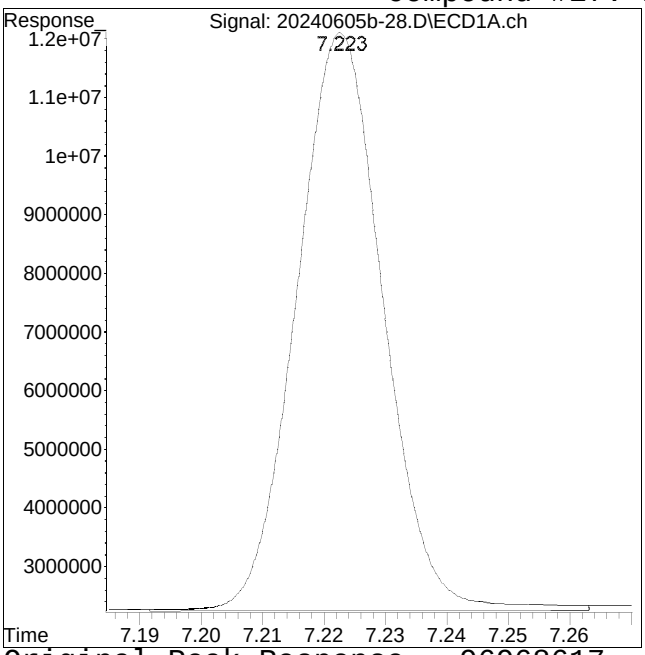
Manual Peak Response = 153456602 M4

M4 = Poor automated baseline construction.

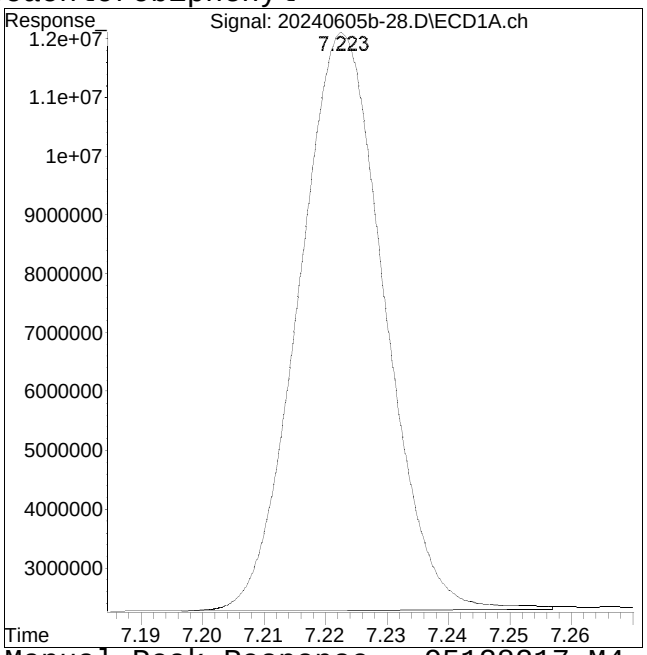
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-28.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:44 Instrument : PEST 20
Sample : L2430219-07,42,, Quant Date : 6/6/2024 5:51 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 96968617



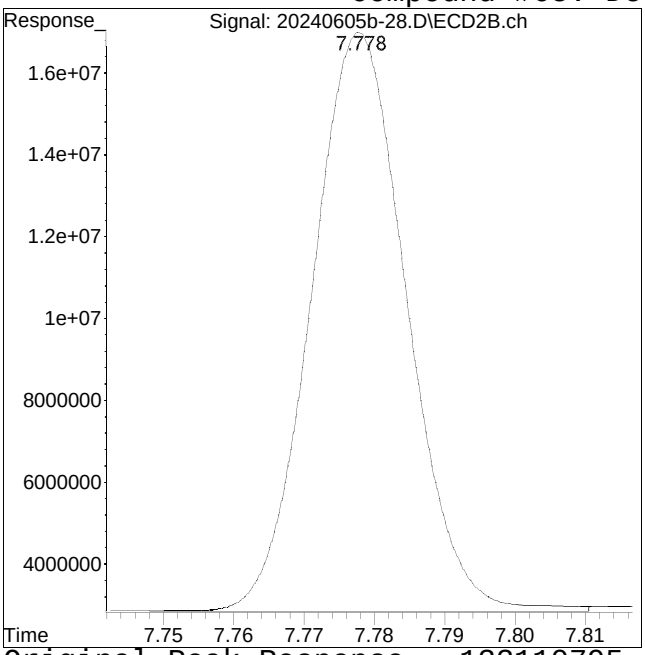
Manual Peak Response = 95128217 M4

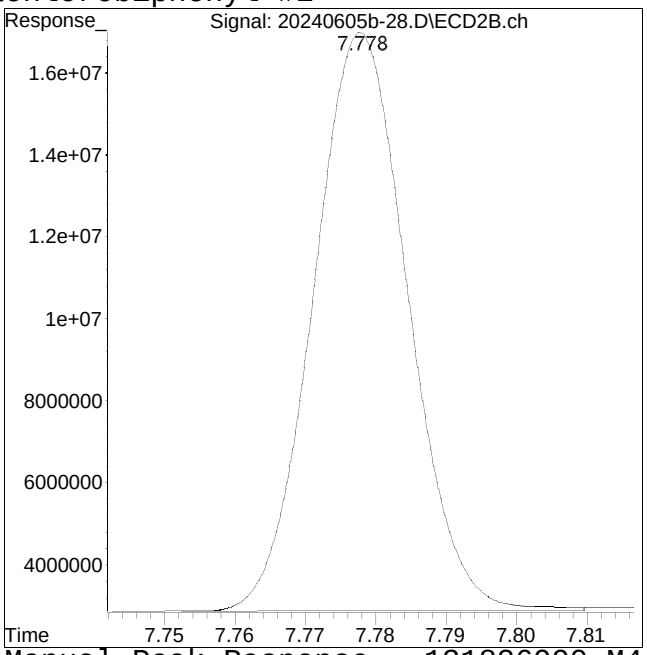
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-28.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:44 Instrument : PEST 20
Sample : L2430219-07,42,, Quant Date : 6/6/2024 5:51 am

Compound #65: Decachlorobiphenyl #2



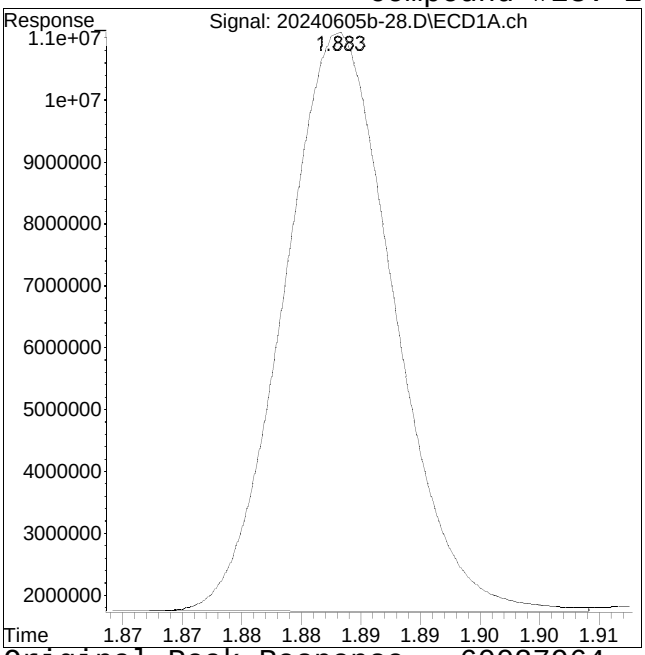


Original Peak Response = 133110795 Manual Peak Response = 131826990 M4
M4 = Poor automated baseline construction.

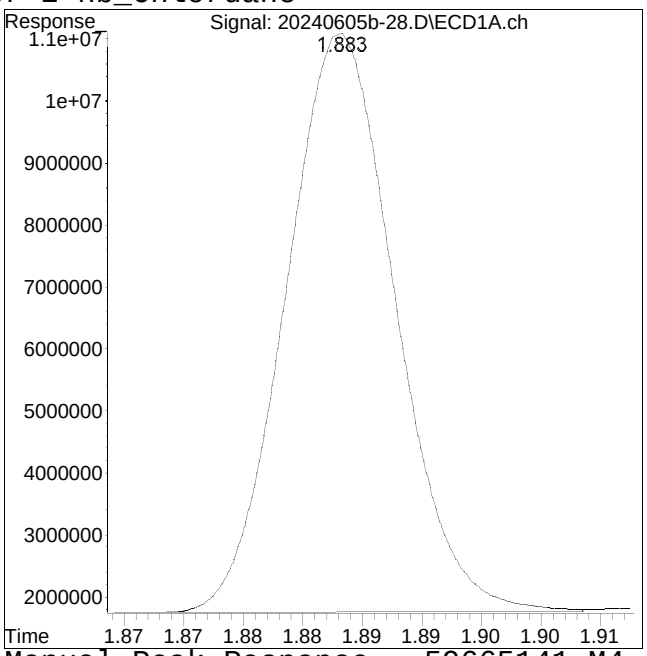
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-28.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:44 Instrument : PEST 20
Sample : L2430219-07,42,, Quant Date : 6/6/2024 5:51 am

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 60027964



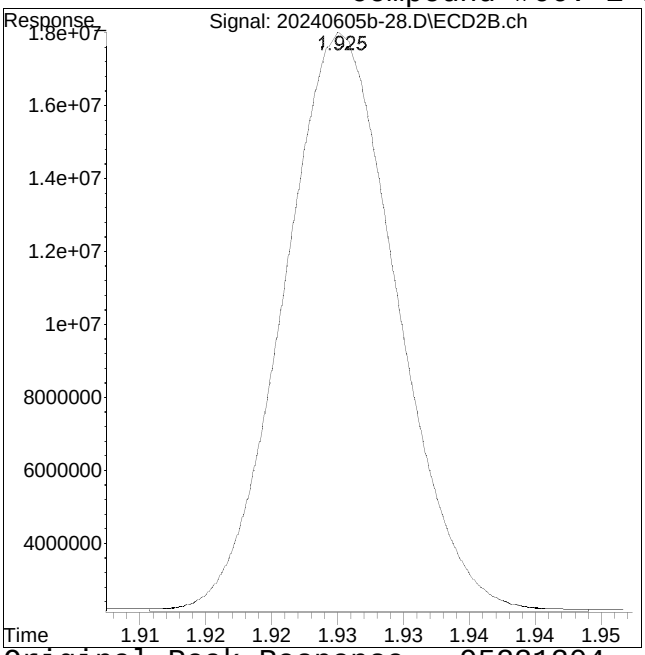
Manual Peak Response = 59665141 M4

M4 = Poor automated baseline construction.

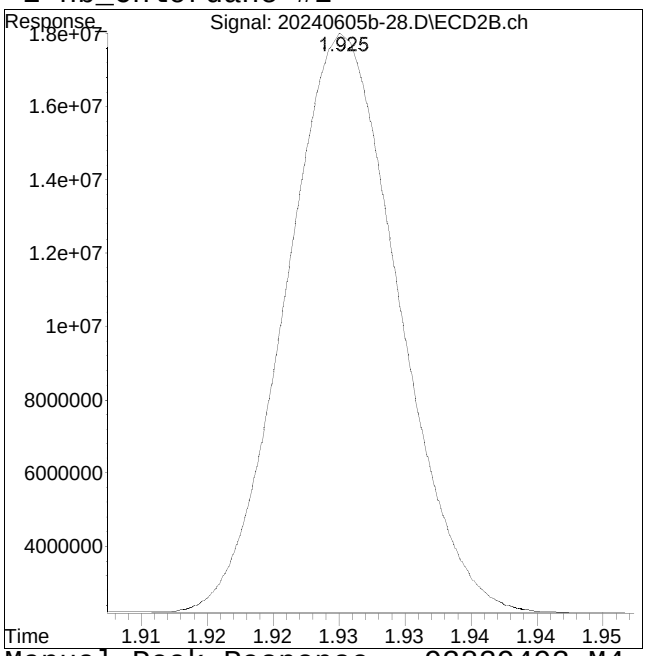
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-28.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:44 Instrument : PEST 20
Sample : L2430219-07,42,, Quant Date : 6/6/2024 5:51 am

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 95231204

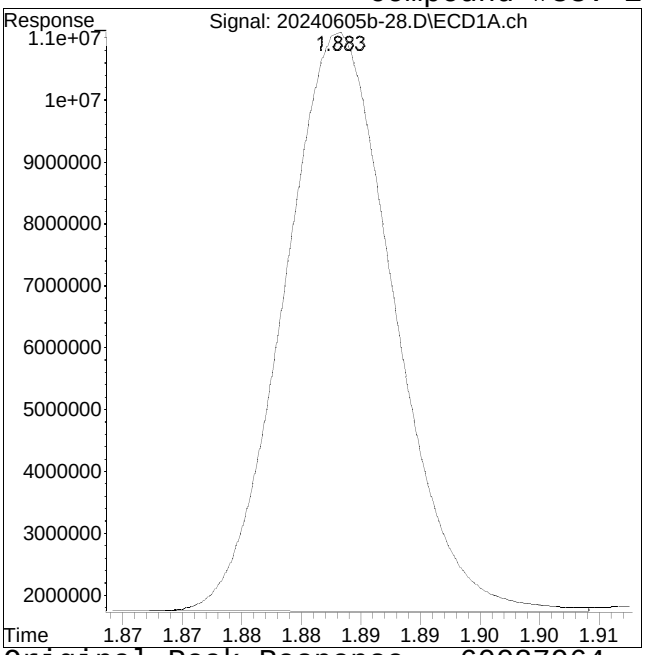


Manual Peak Response = 93839493 M4
M4 = Poor automated baseline construction.

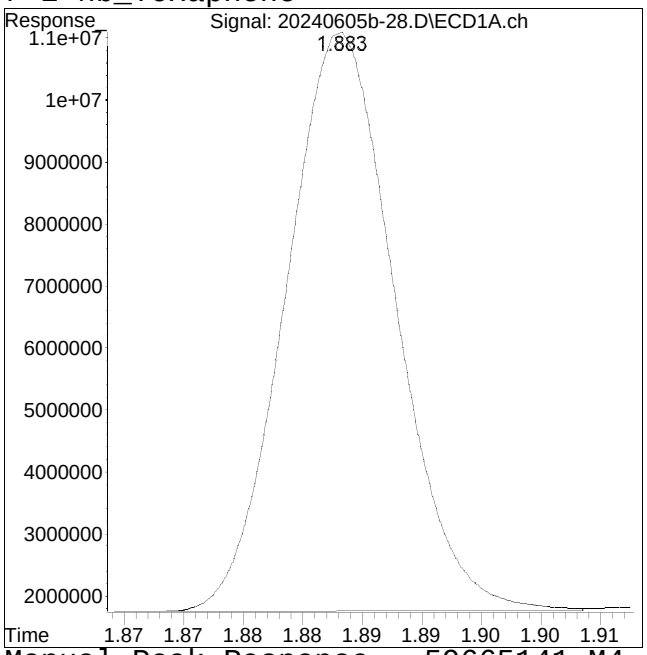
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-28.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:44 Instrument : PEST 20
Sample : L2430219-07,42,, Quant Date : 6/6/2024 5:51 am

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 60027964



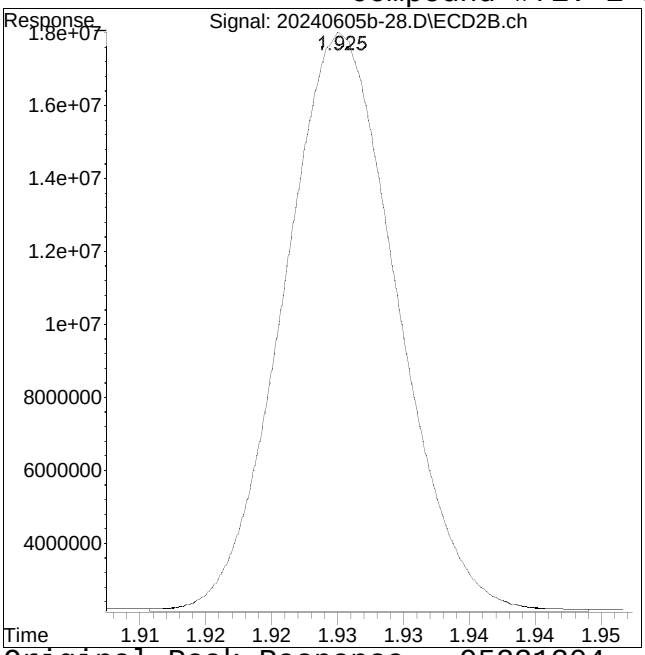
Manual Peak Response = 59665141 M4

M4 = Poor automated baseline construction.

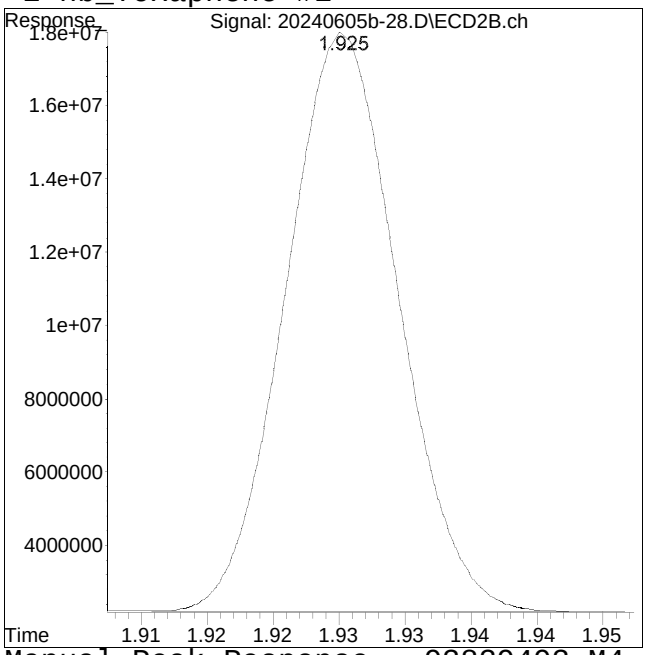
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-28.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:44 Instrument : PEST 20
Sample : L2430219-07,42,, Quant Date : 6/6/2024 5:51 am

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 95231204



Manual Peak Response = 93839493 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-29.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jun 2024 00:56
Operator : pest20:jag
Sample : L2430219-08,42,,
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:51:39 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240605b\20240605b-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.883	1.925	60478512	96736803	25.000M4	25.000M4
	Standard Area 1 : #1 = 60467879				Recovery = 100.02%		
	Standard Area 1 : #2 = 94939114				Recovery = 101.89%		
28) i	1-br-2-nb_Ch	1.883	1.925	60478512	96736803	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.883	1.925	60478512	96736803	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.348	2.518	85200346	127.0E6	30.615M4	29.580M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 61.23%		59.16%
27) s	Decachlorobi	7.223	7.777	74555575	110.0E6	30.489M4	32.047M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 60.98%		64.09%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-29.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jun 2024 00:56
Operator : pest20:jag
Sample : L2430219-08,42,,
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:51:39 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240605b\20240605b-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

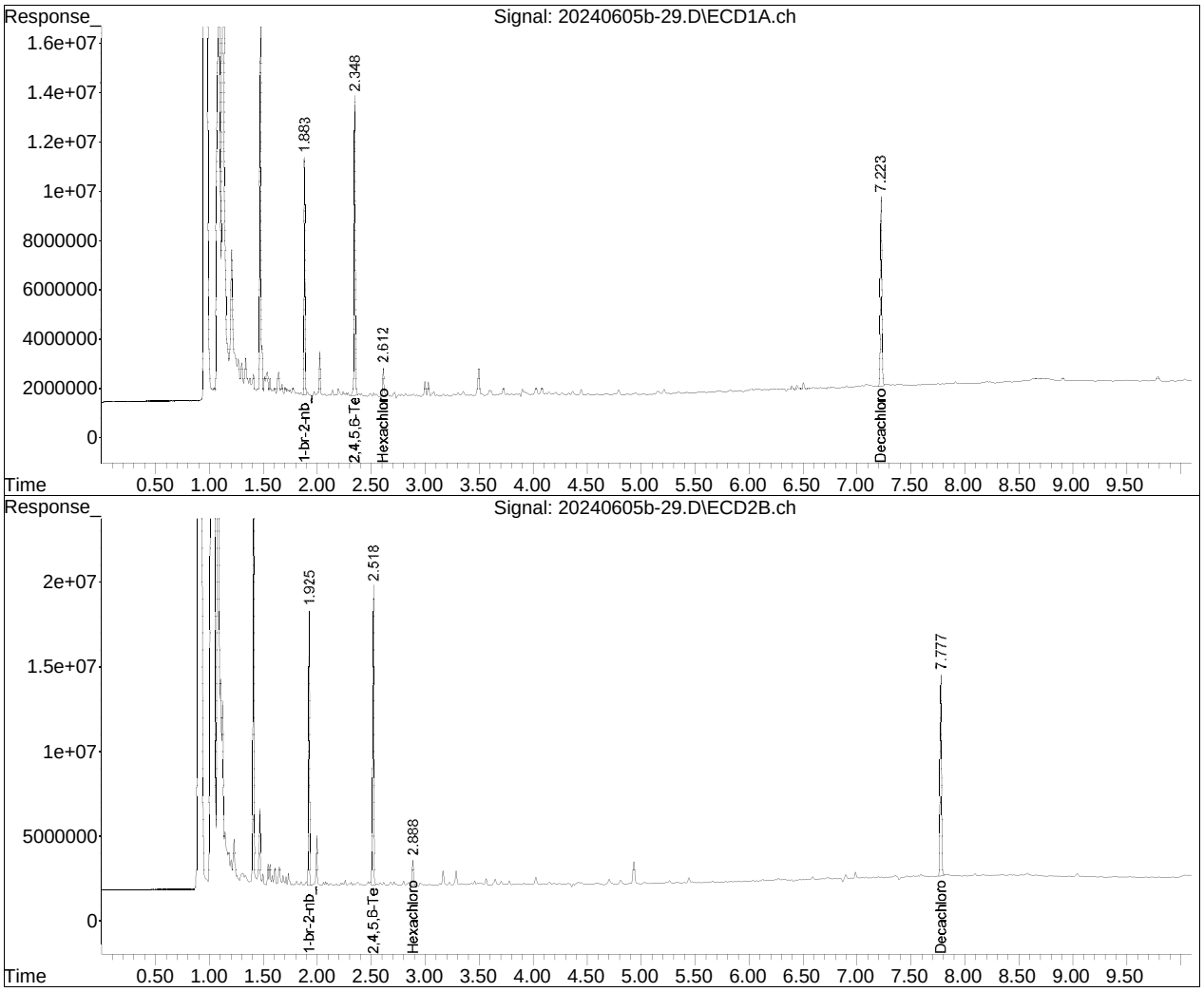
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedb\20240605b-03.D•

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-29.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jun 2024 00:56
Operator : pest20:jag
Sample : L2430219-08,42,,
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:51:39 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

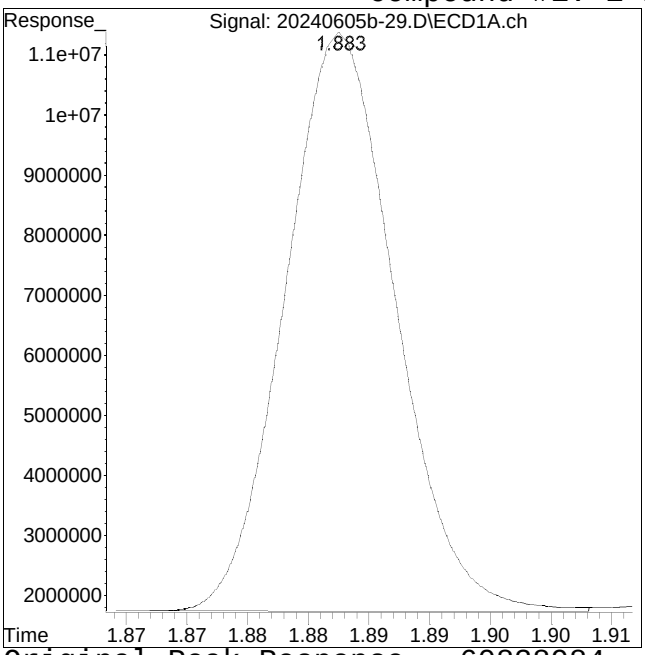
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



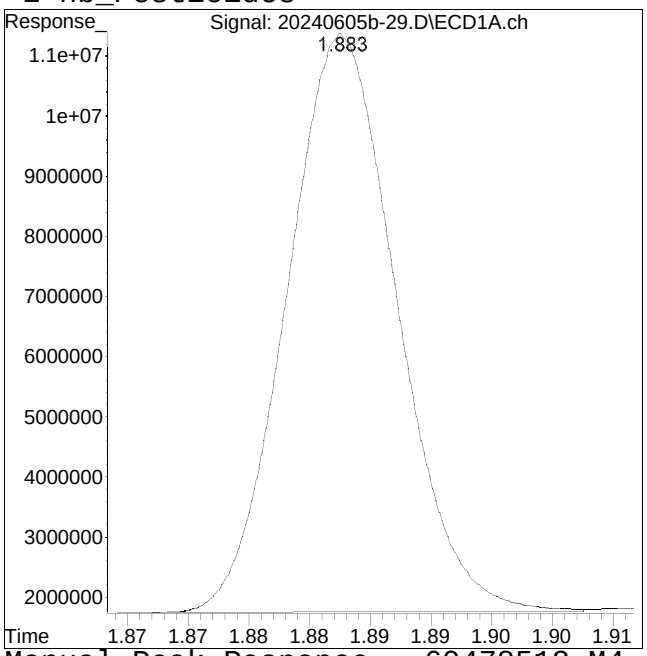
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-29.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:56 Instrument : PEST 20
Sample : L2430219-08,42,, Quant Date : 6/6/2024 5:51 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 60838984



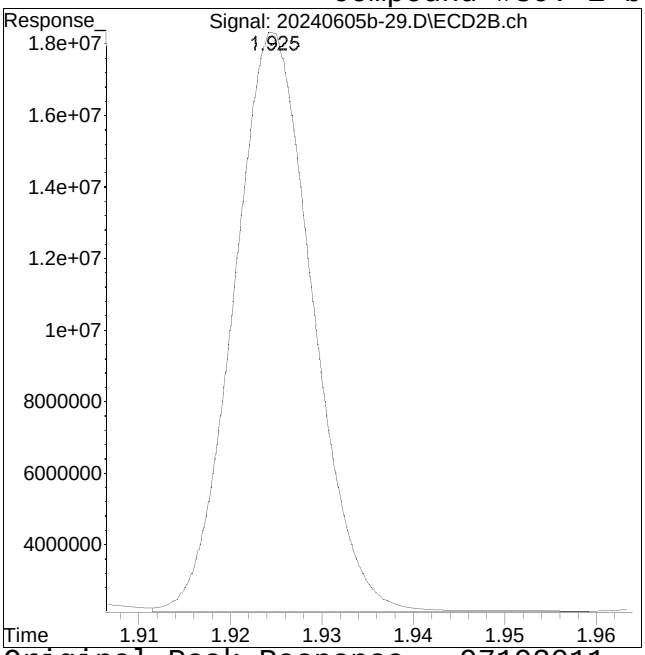
Manual Peak Response = 60478512 M4

M4 = Poor automated baseline construction.

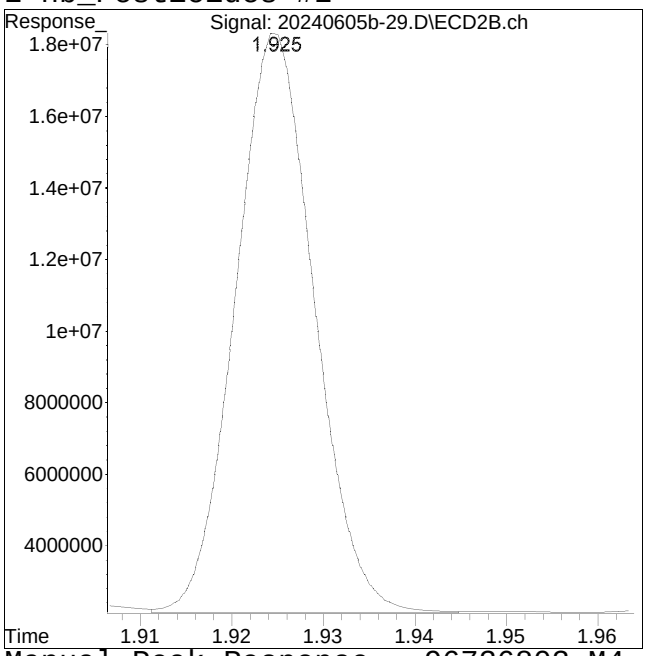
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-29.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:56 Instrument : PEST 20
Sample : L2430219-08,42,, Quant Date : 6/6/2024 5:51 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 97192011



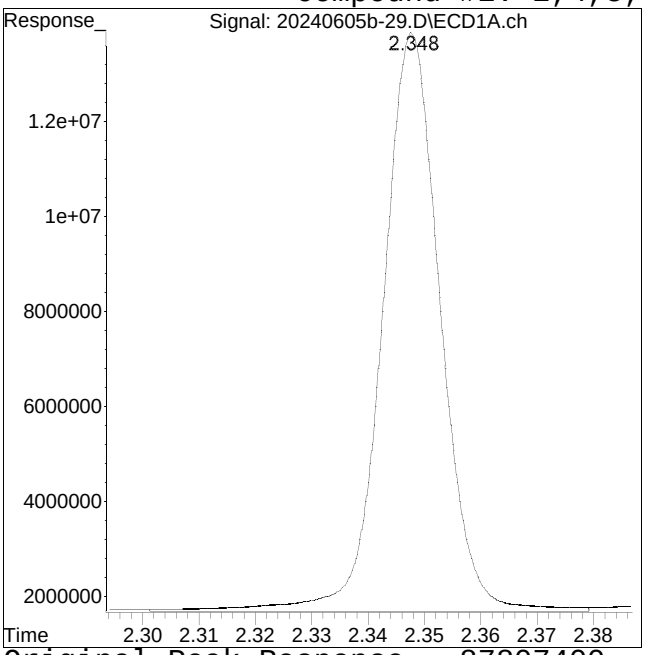
Manual Peak Response = 96736803 M4

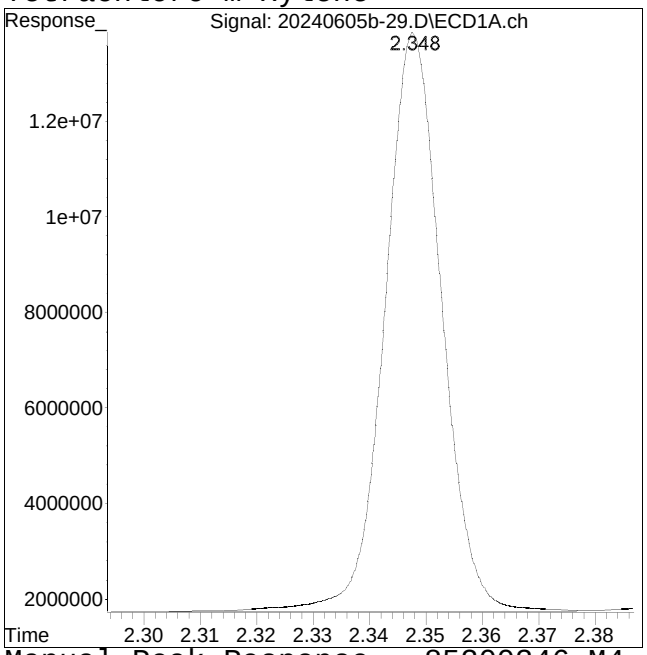
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-29.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:56 Instrument : PEST 20
Sample : L2430219-08,42,, Quant Date : 6/6/2024 5:51 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



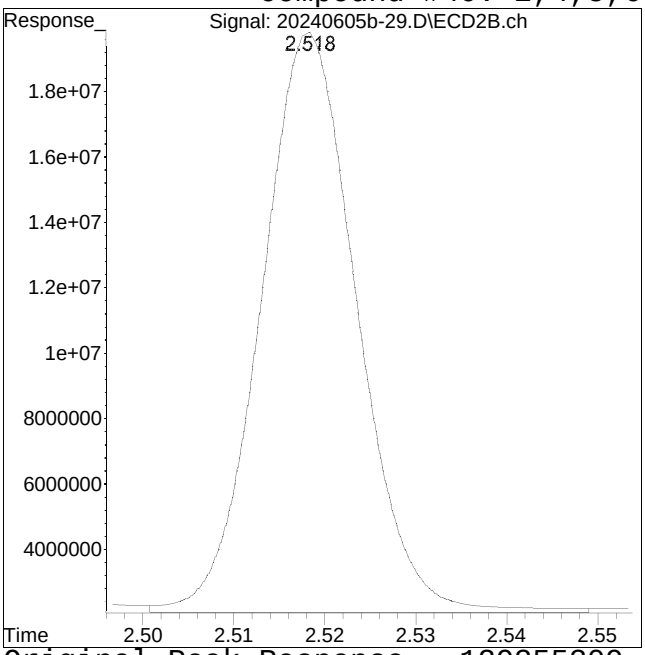


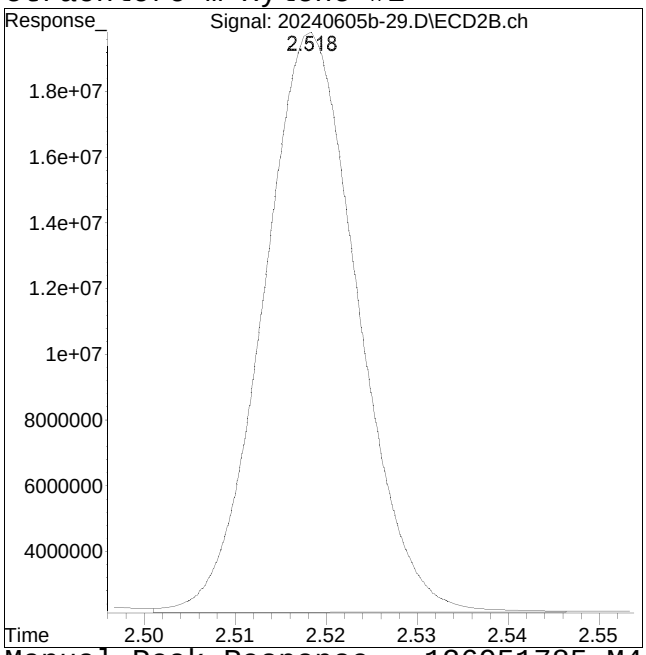
Original Peak Response = 87807400 Manual Peak Response = 85200346 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-29.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:56 Instrument : PEST 20
Sample : L2430219-08,42,, Quant Date : 6/6/2024 5:51 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



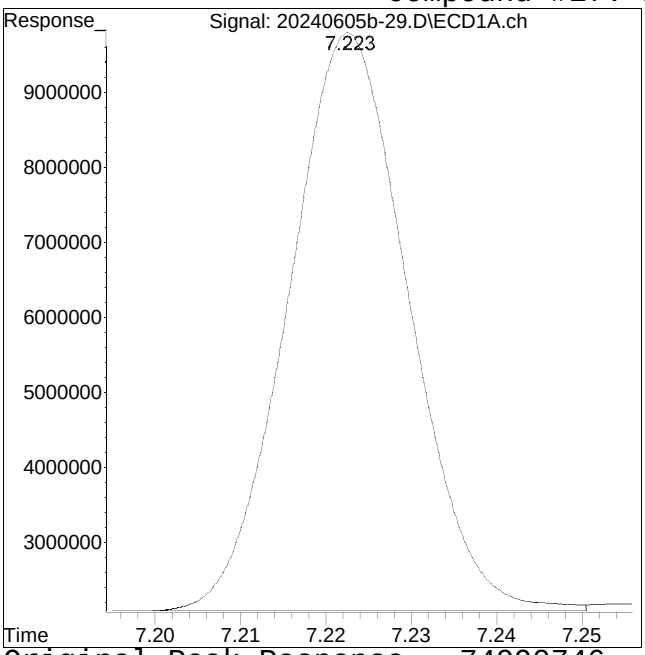


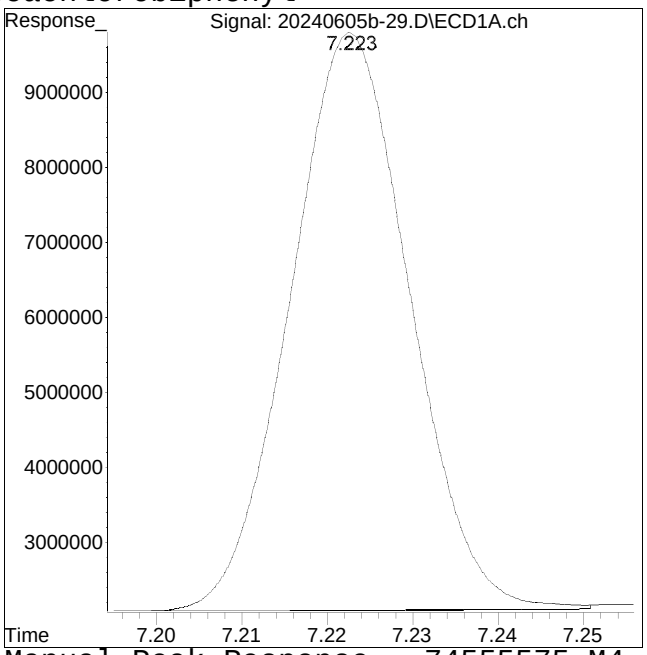
Original Peak Response = 129355309 Manual Peak Response = 126951785 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-29.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:56 Instrument : PEST 20
Sample : L2430219-08,42,, Quant Date : 6/6/2024 5:51 am

Compound #27: Decachlorobiphenyl



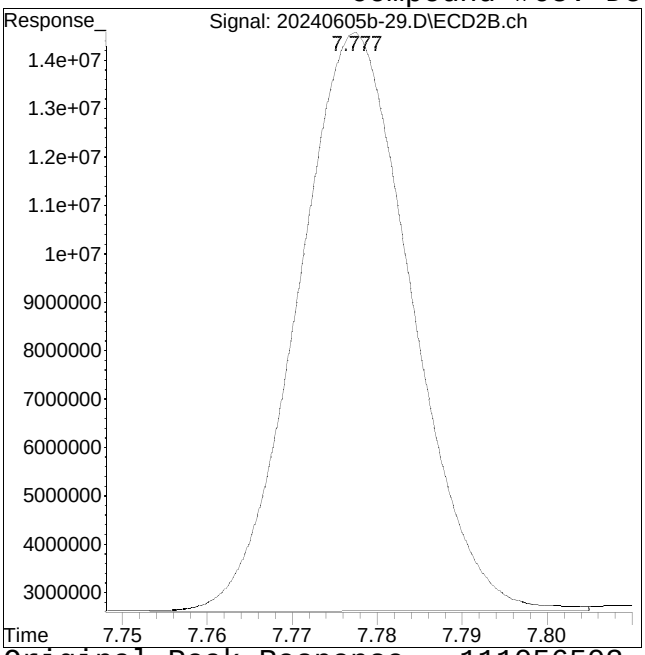


Original Peak Response = 74990746 Manual Peak Response = 74555575 M4
M4 = Poor automated baseline construction.

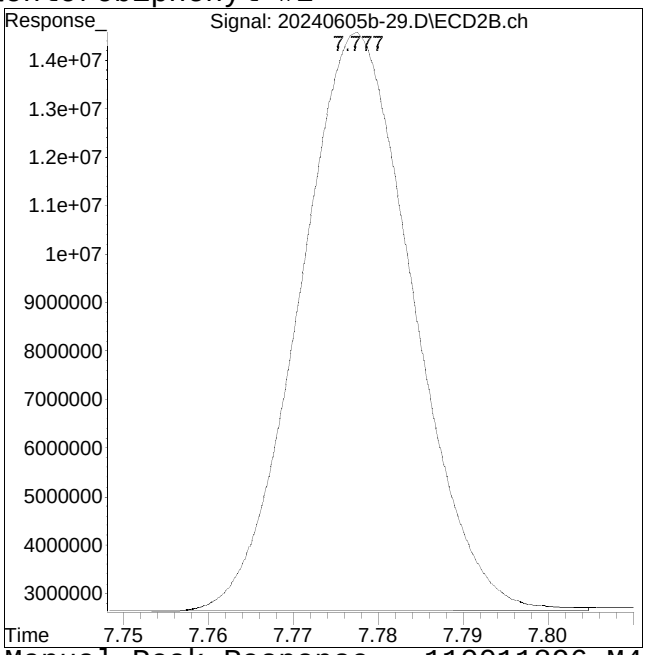
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-29.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:56 Instrument : PEST 20
Sample : L2430219-08,42,, Quant Date : 6/6/2024 5:51 am

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 111056503



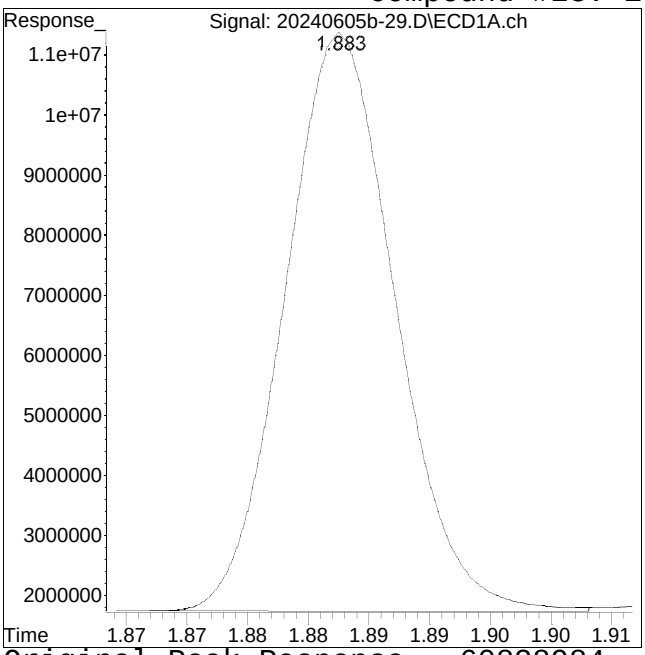
Manual Peak Response = 110011896 M4

M4 = Poor automated baseline construction.

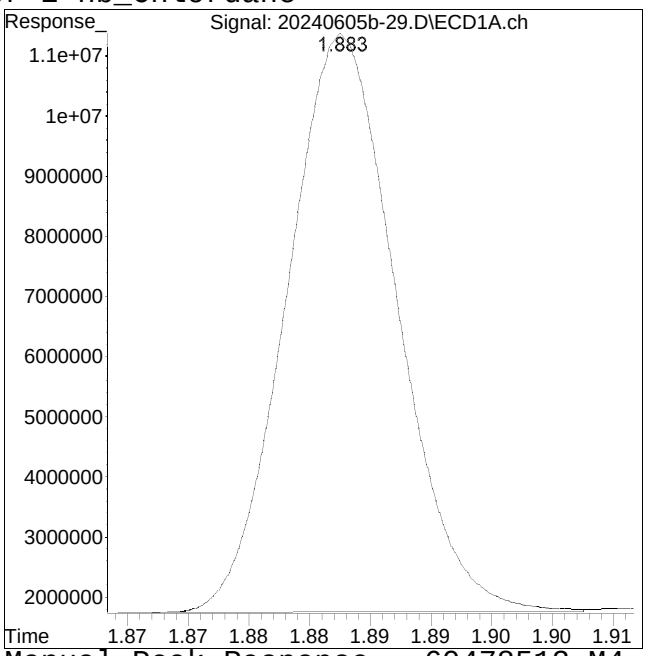
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-29.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:56 Instrument : PEST 20
Sample : L2430219-08,42,, Quant Date : 6/6/2024 5:51 am

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 60838984



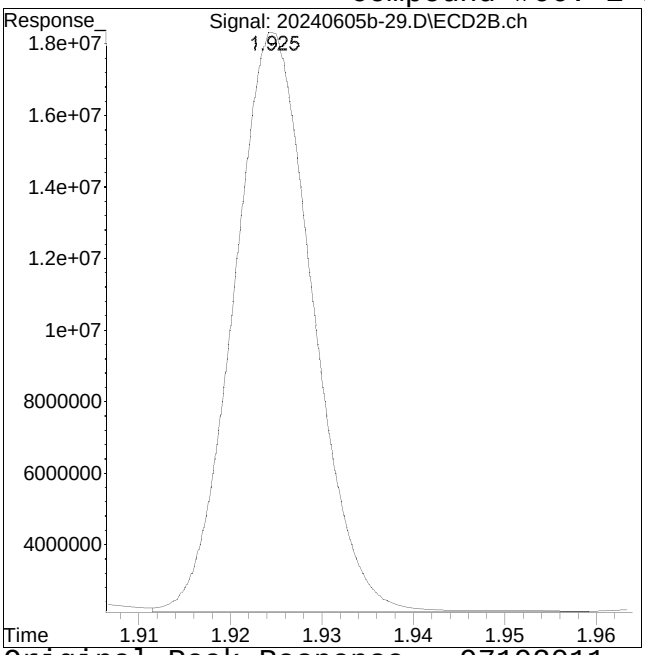
Manual Peak Response = 60478512 M4

M4 = Poor automated baseline construction.

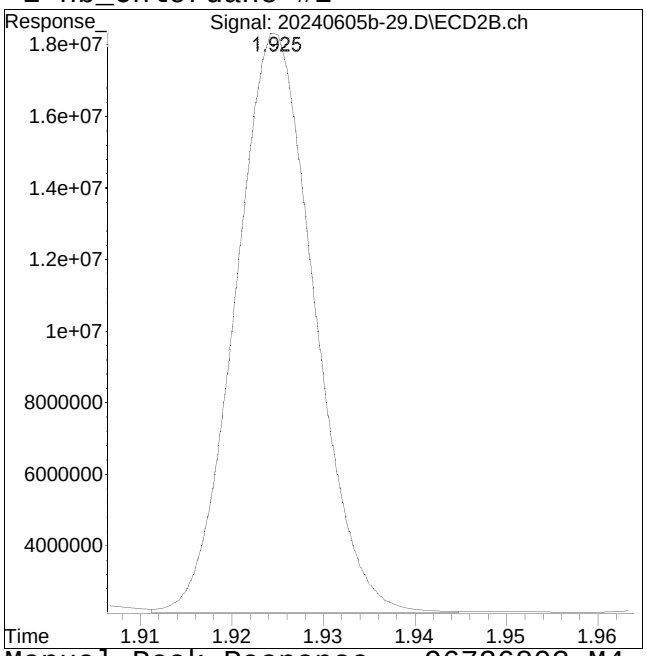
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-29.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:56 Instrument : PEST 20
Sample : L2430219-08,42,, Quant Date : 6/6/2024 5:51 am

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 97192011



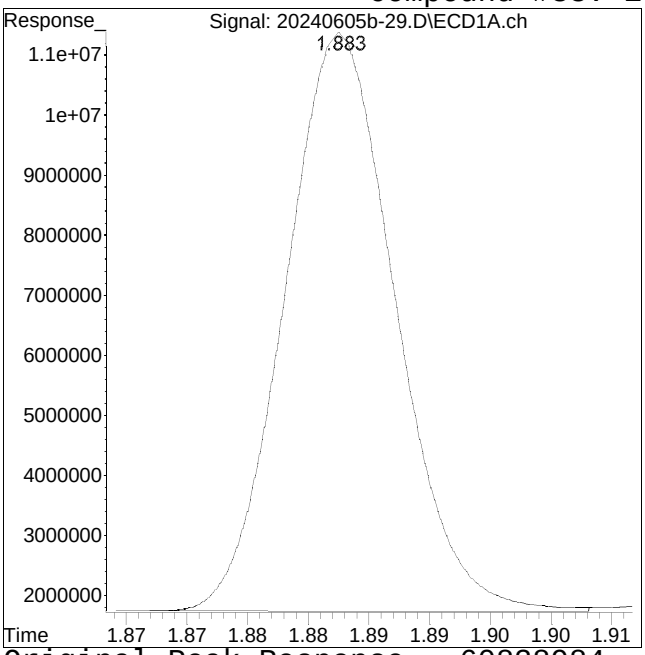
Manual Peak Response = 96736803 M4

M4 = Poor automated baseline construction.

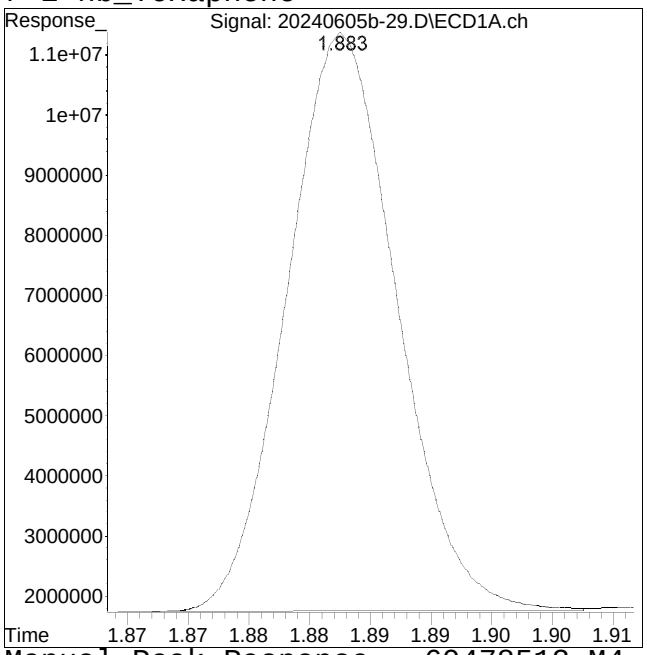
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-29.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:56 Instrument : PEST 20
Sample : L2430219-08,42,, Quant Date : 6/6/2024 5:51 am

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 60838984



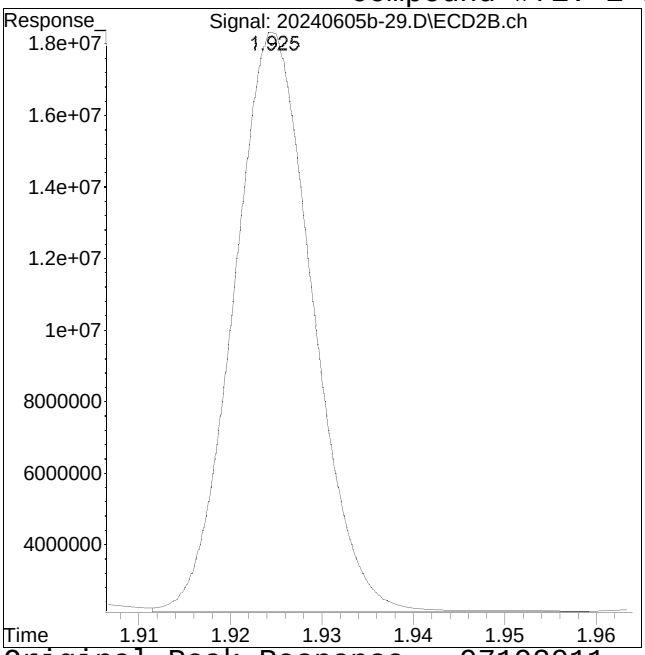
Manual Peak Response = 60478512 M4

M4 = Poor automated baseline construction.

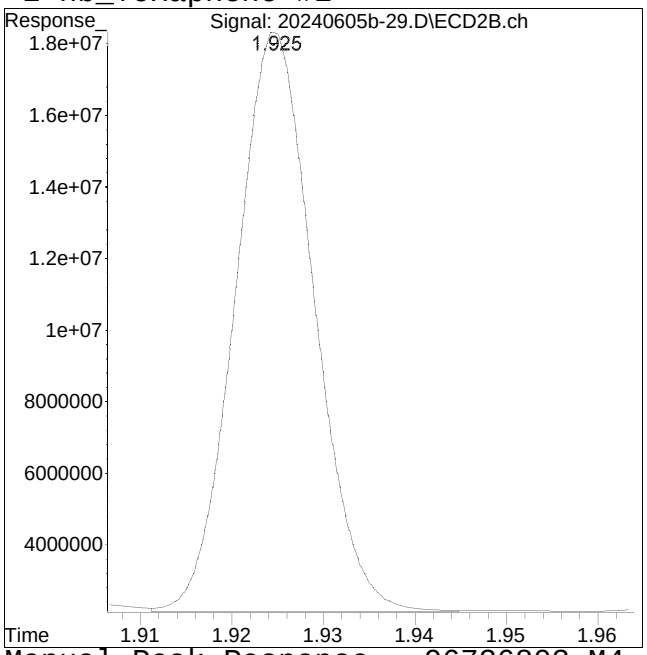
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-29.D Operator : pest20:jag
Date Inj'd : 6/6/2024 0:56 Instrument : PEST 20
Sample : L2430219-08,42,, Quant Date : 6/6/2024 5:51 am

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 97192011



Manual Peak Response = 96736803 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-30.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jun 2024 01:09
Operator : pest20:jag
Sample : L2430219-09,42,,
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:51:42 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240605b\20240605b-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.882	1.924	57598345	91062471	25.000M4	25.000M4
	Standard Area 1 : #1 = 60467879				Recovery =	95.25%	
	Standard Area 1 : #2 = 94939114				Recovery =	95.92%	
28) i	1-br-2-nb_Ch	1.882	1.924	57598345	91062471	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.882	1.924	57598345	91062471	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.348	2.518	105.0E6	155.7E6	39.604M4	38.528M4
	Spiked Amount	50.000	Range 30 - 150		Recovery =	79.21%	77.06%
27) s	Decachlorobi	7.223	7.777	90358634	133.2E6	39.144M4	41.557M4
	Spiked Amount	50.000	Range 30 - 150		Recovery =	78.29%	83.11%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-30.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jun 2024 01:09
Operator : pest20:jag
Sample : L2430219-09,42,,
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:51:42 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240605b\20240605b-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

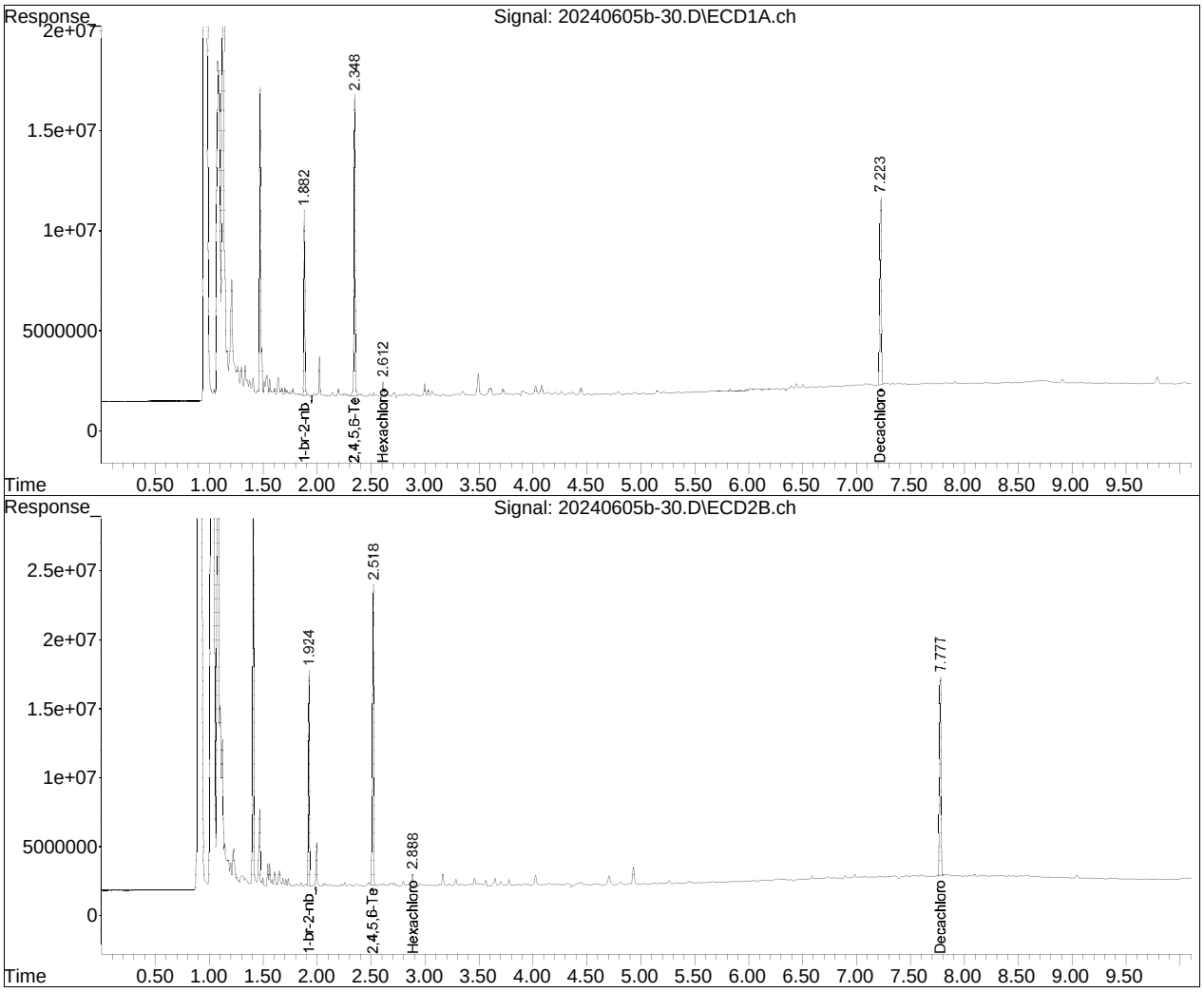
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedb\20240605b-03.D•

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-30.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jun 2024 01:09
Operator : pest20:jag
Sample : L2430219-09,42,,
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:51:42 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

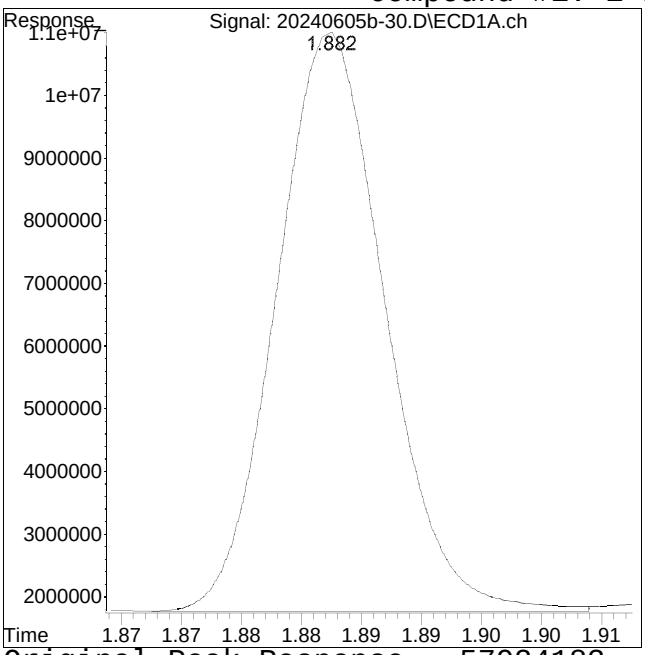
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



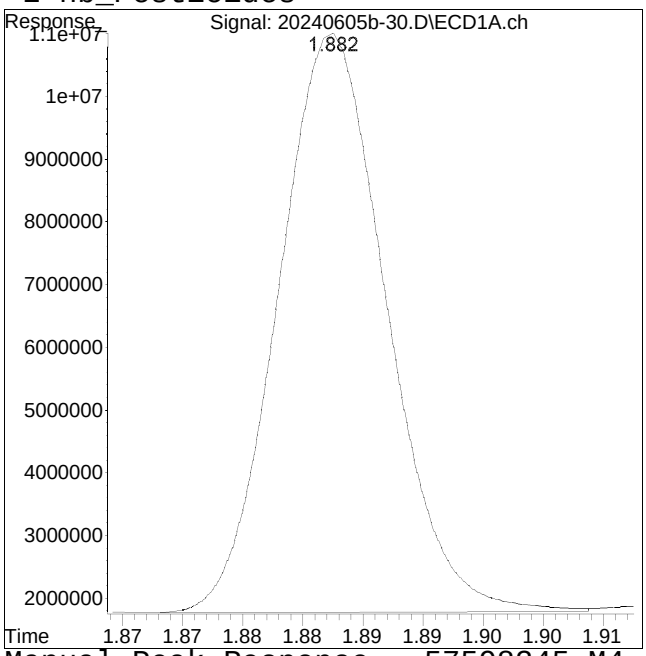
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-30.D Operator : pest20:jag
Date Inj'd : 6/6/2024 1:09 Instrument : PEST 20
Sample : L2430219-09,42,, Quant Date : 6/6/2024 5:51 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 57924183



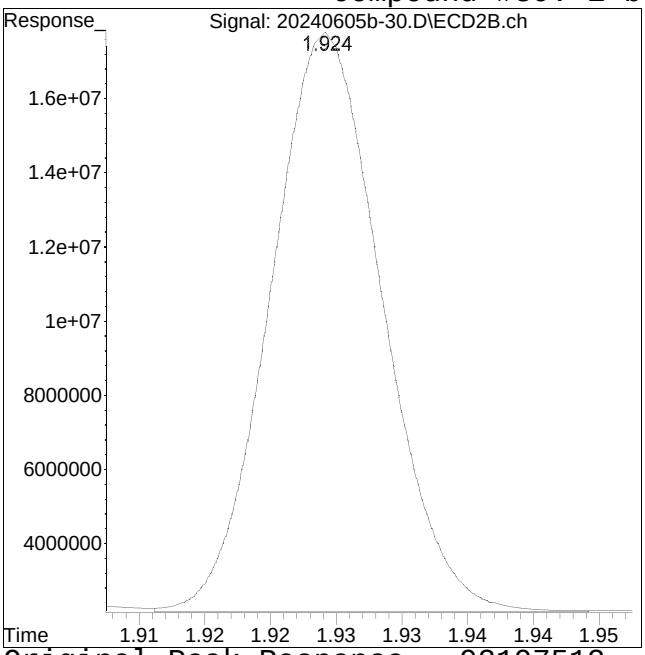
Manual Peak Response = 57598345 M4

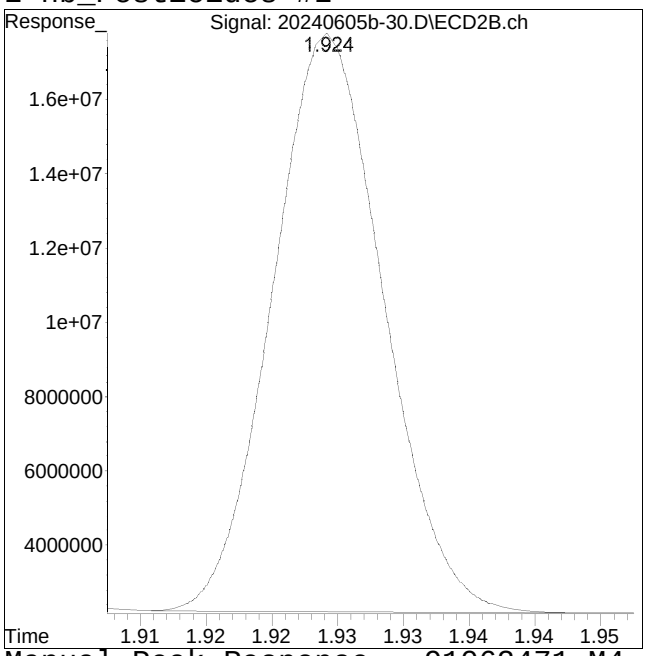
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-30.D Operator : pest20:jag
Date Inj'd : 6/6/2024 1:09 Instrument : PEST 20
Sample : L2430219-09,42,, Quant Date : 6/6/2024 5:51 am

Compound #39: 1-br-2-nb_Pesticides #2



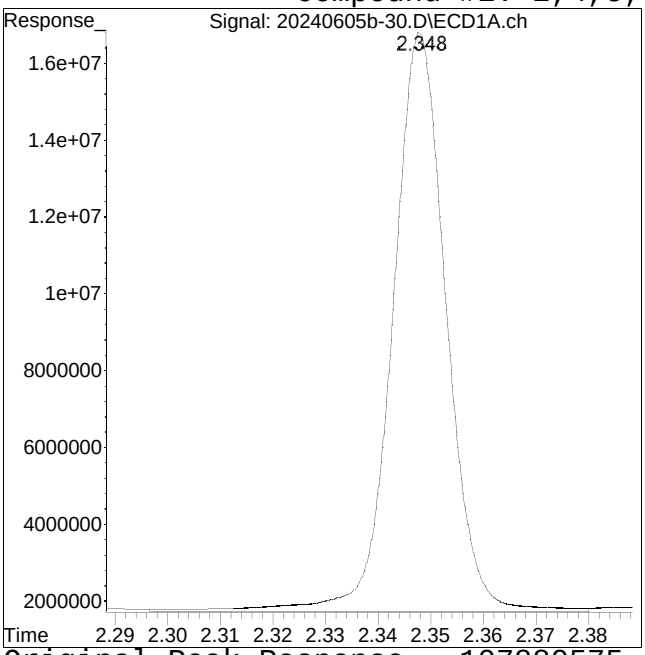


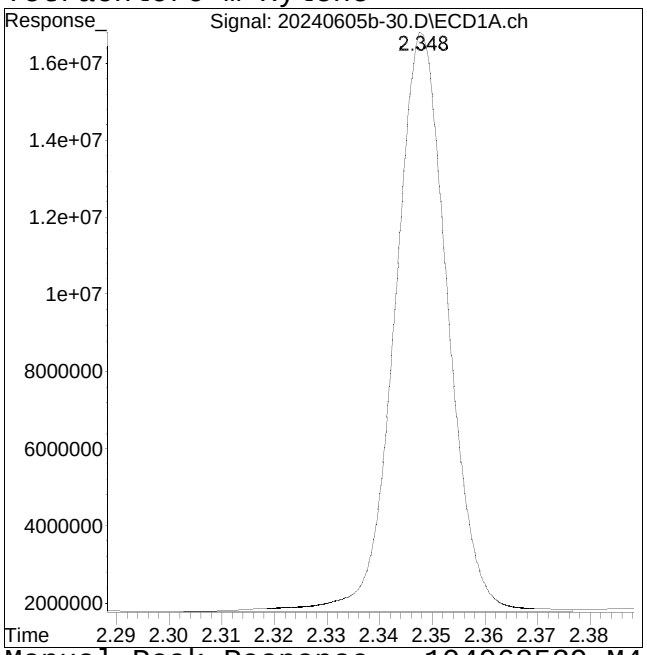
Original Peak Response = 92197512 Manual Peak Response = 91062471 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-30.D Operator : pest20:jag
Date Inj'd : 6/6/2024 1:09 Instrument : PEST 20
Sample : L2430219-09,42,, Quant Date : 6/6/2024 5:51 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



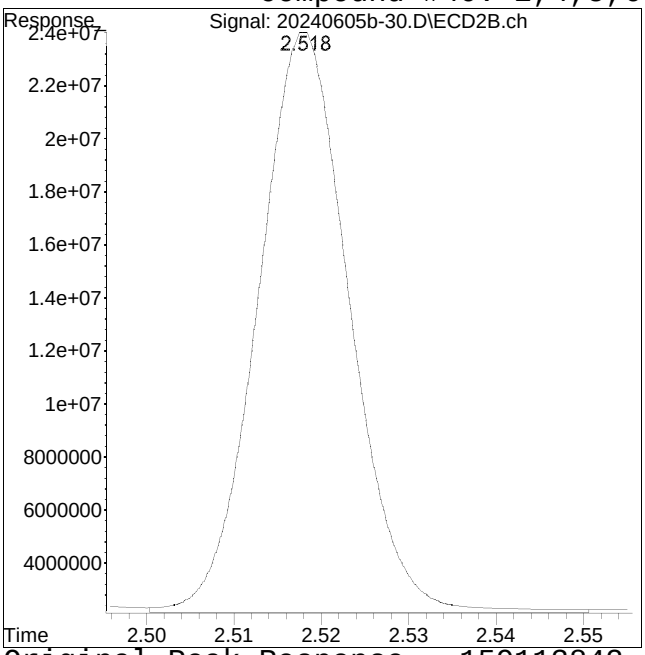


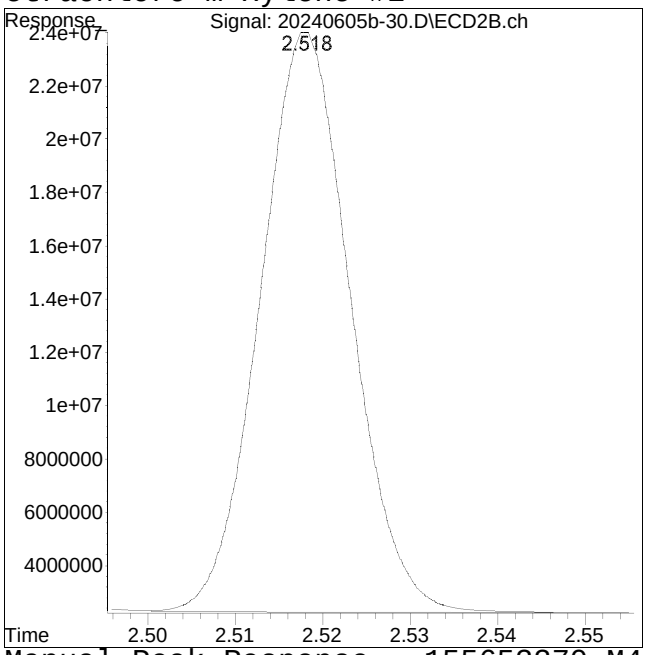
Original Peak Response = 107880575 Manual Peak Response = 104968529 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-30.D Operator : pest20:jag
Date Inj'd : 6/6/2024 1:09 Instrument : PEST 20
Sample : L2430219-09,42,, Quant Date : 6/6/2024 5:51 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



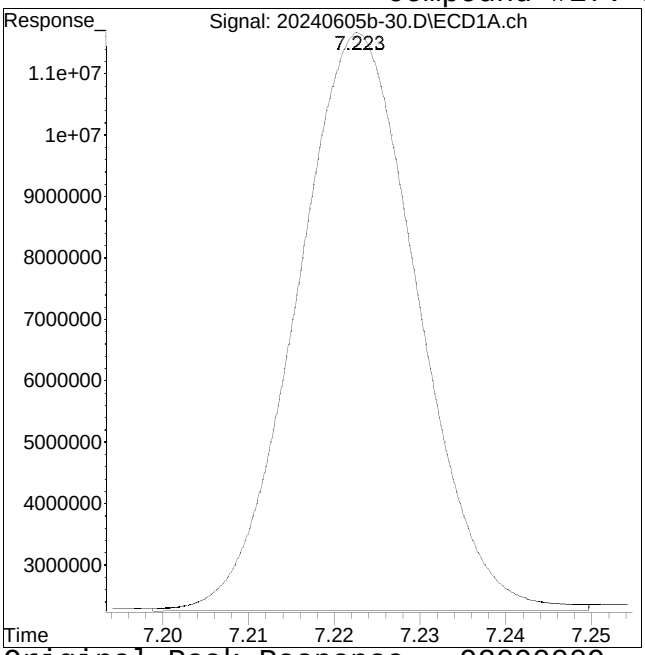


Original Peak Response = 159113842 Manual Peak Response = 155653370 M4
M4 = Poor automated baseline construction.

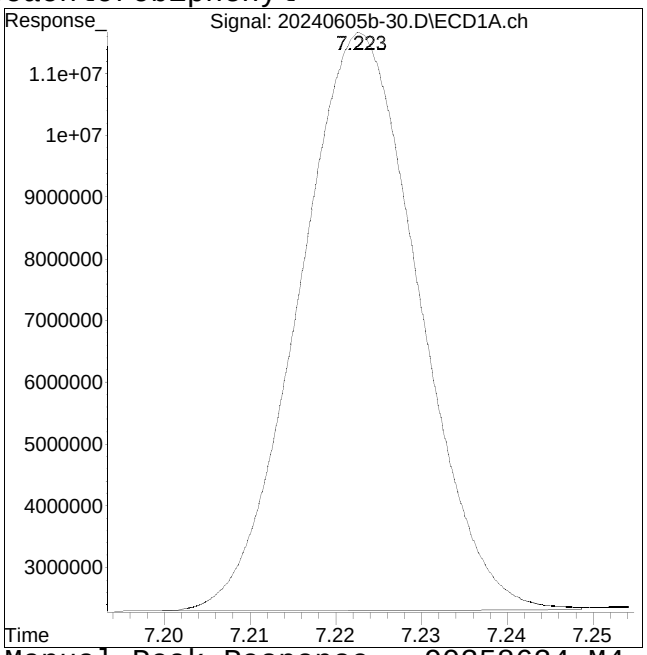
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-30.D Operator : pest20:jag
Date Inj'd : 6/6/2024 1:09 Instrument : PEST 20
Sample : L2430219-09,42,, Quant Date : 6/6/2024 5:51 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 92090009



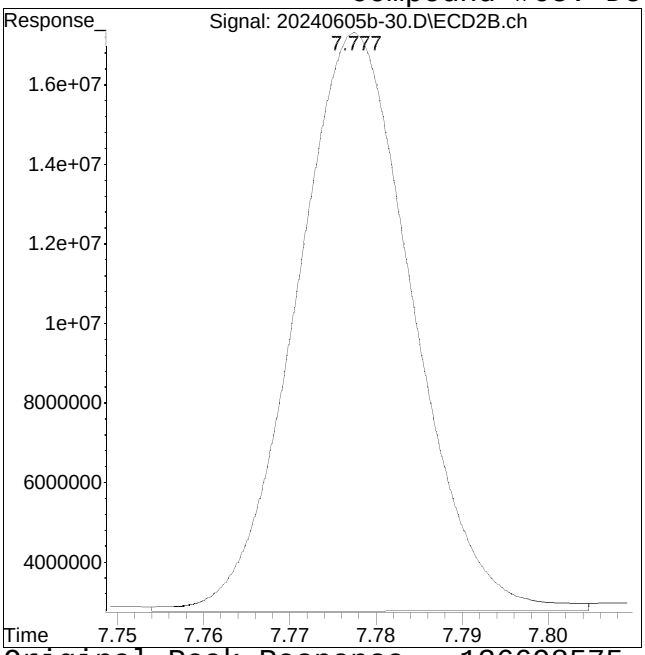
Manual Peak Response = 90358634 M4

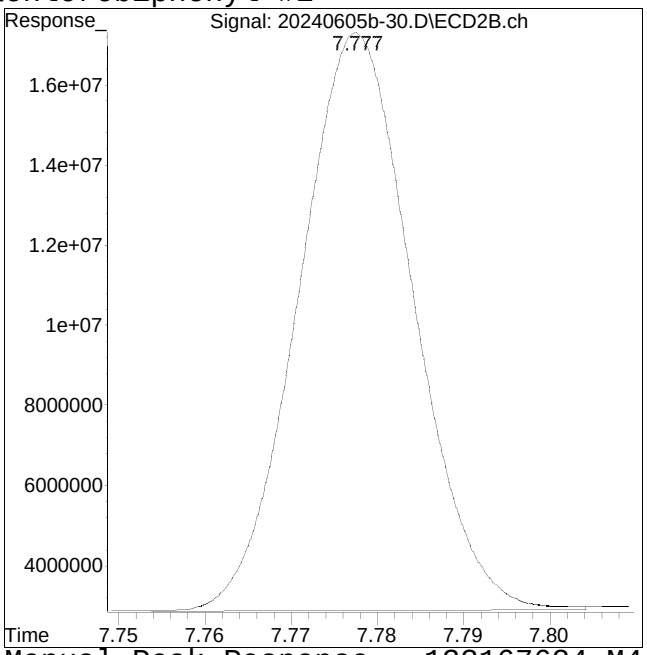
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-30.D Operator : pest20:jag
Date Inj'd : 6/6/2024 1:09 Instrument : PEST 20
Sample : L2430219-09,42,, Quant Date : 6/6/2024 5:51 am

Compound #65: Decachlorobiphenyl #2



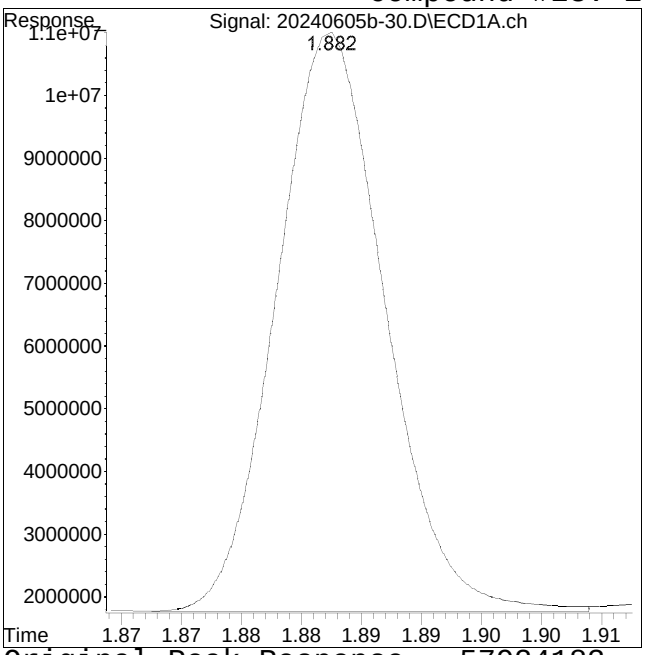


Original Peak Response = 136698575 Manual Peak Response = 133167624 M4
M4 = Poor automated baseline construction.

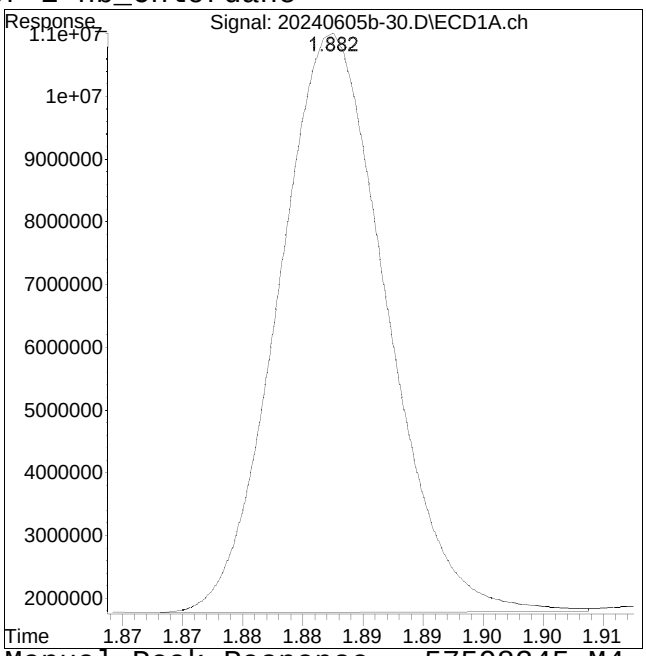
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-30.D Operator : pest20:jag
Date Inj'd : 6/6/2024 1:09 Instrument : PEST 20
Sample : L2430219-09,42,, Quant Date : 6/6/2024 5:51 am

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 57924183



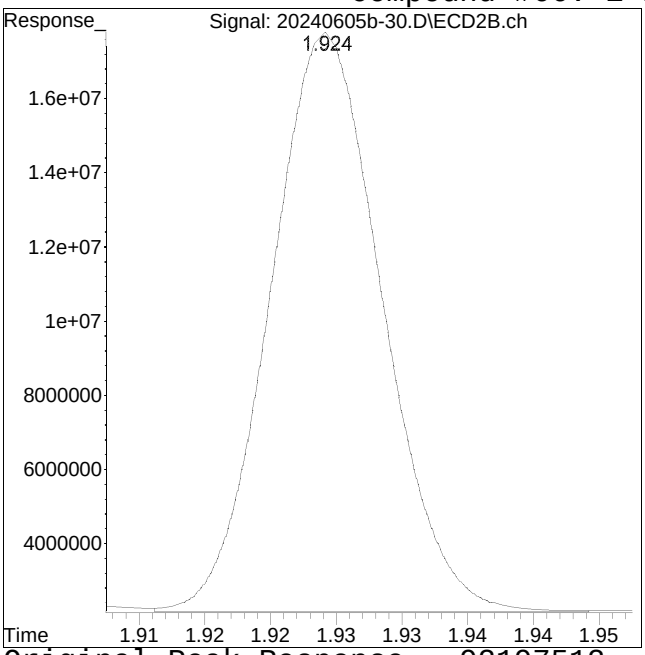
Manual Peak Response = 57598345 M4

M4 = Poor automated baseline construction.

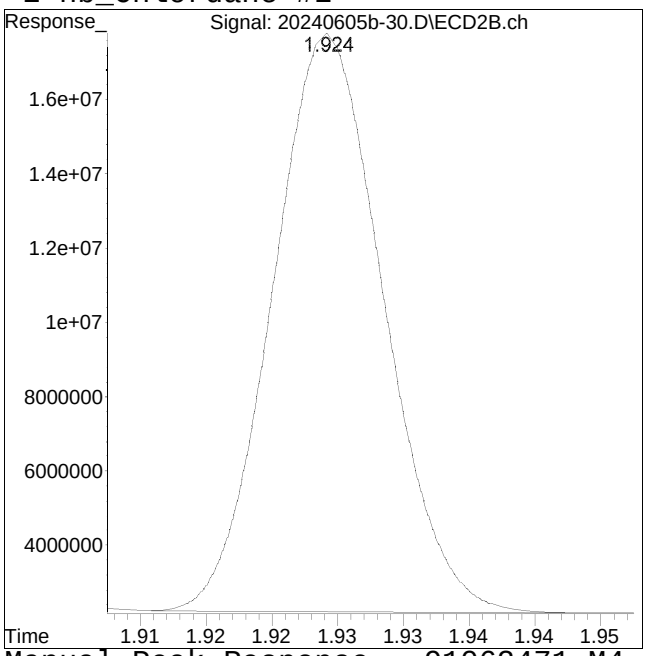
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-30.D Operator : pest20:jag
Date Inj'd : 6/6/2024 1:09 Instrument : PEST 20
Sample : L2430219-09,42,, Quant Date : 6/6/2024 5:51 am

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 92197512



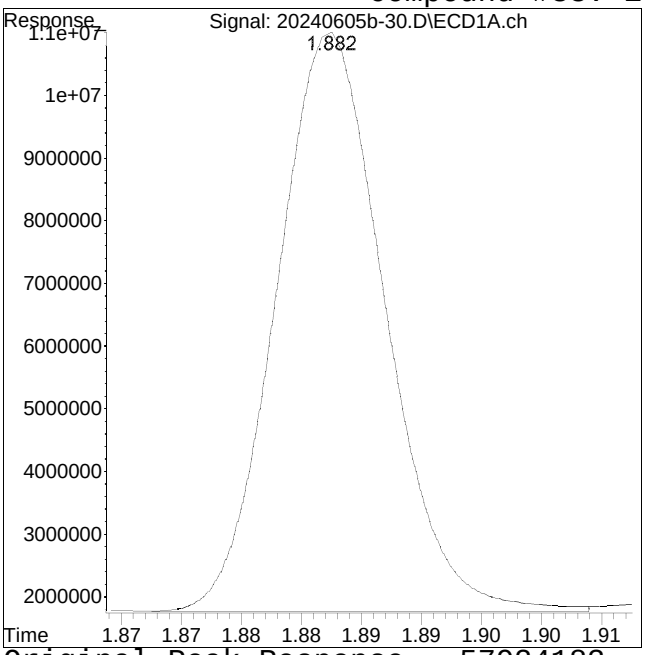
Manual Peak Response = 91062471 M4

M4 = Poor automated baseline construction.

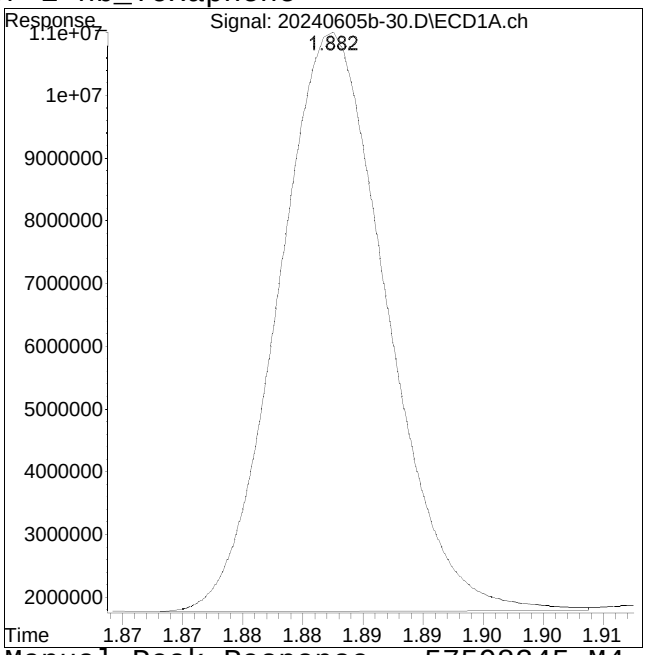
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-30.D Operator : pest20:jag
Date Inj'd : 6/6/2024 1:09 Instrument : PEST 20
Sample : L2430219-09,42,, Quant Date : 6/6/2024 5:51 am

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 57924183



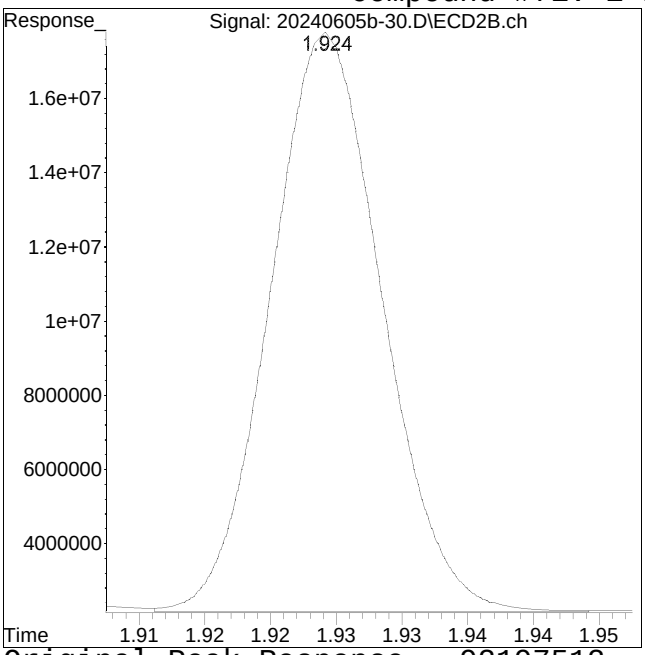
Manual Peak Response = 57598345 M4

M4 = Poor automated baseline construction.

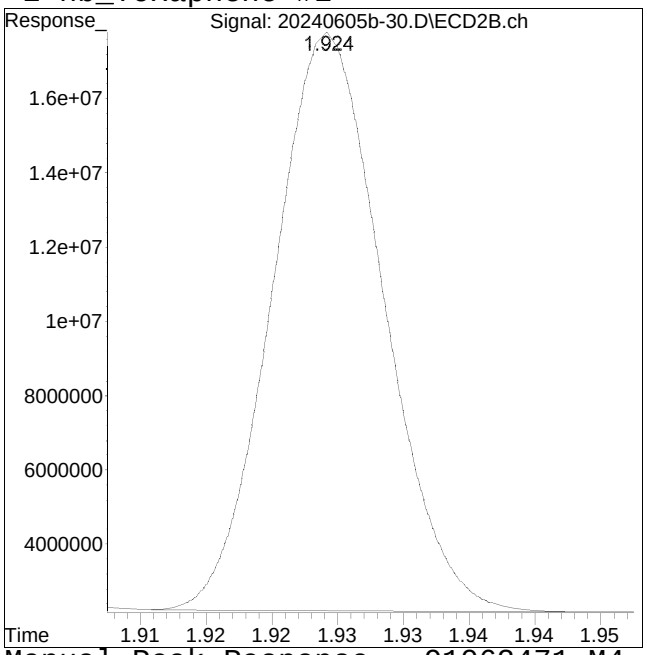
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-30.D Operator : pest20:jag
Date Inj'd : 6/6/2024 1:09 Instrument : PEST 20
Sample : L2430219-09,42,, Quant Date : 6/6/2024 5:51 am

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 92197512



Manual Peak Response = 91062471 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-31.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jun 2024 01:21
Operator : pest20:jag
Sample : L2430219-10,42,,
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:51:45 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240605b\20240605b-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.883	1.924	55495137	88479752	25.000M4	25.000M4
	Standard Area 1 : #1 = 60467879				Recovery =	91.78%	
	Standard Area 1 : #2 = 94939114				Recovery =	93.20%	
28) i	1-br-2-nb_Ch	1.883	1.924	55495137	88479752	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.883	1.924	55495137	88479752	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.348	2.518	86330210	128.1E6	33.806M4	32.624M4
	Spiked Amount	50.000	Range 30 - 150		Recovery =	67.61%	65.25%
27) s	Decachlorobi	7.223	7.778	57564188	76347564	25.453M4	24.024M4
	Spiked Amount	50.000	Range 30 - 150		Recovery =	50.91%	48.05%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-31.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jun 2024 01:21
Operator : pest20:jag
Sample : L2430219-10,42,,
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:51:45 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240605b\20240605b-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

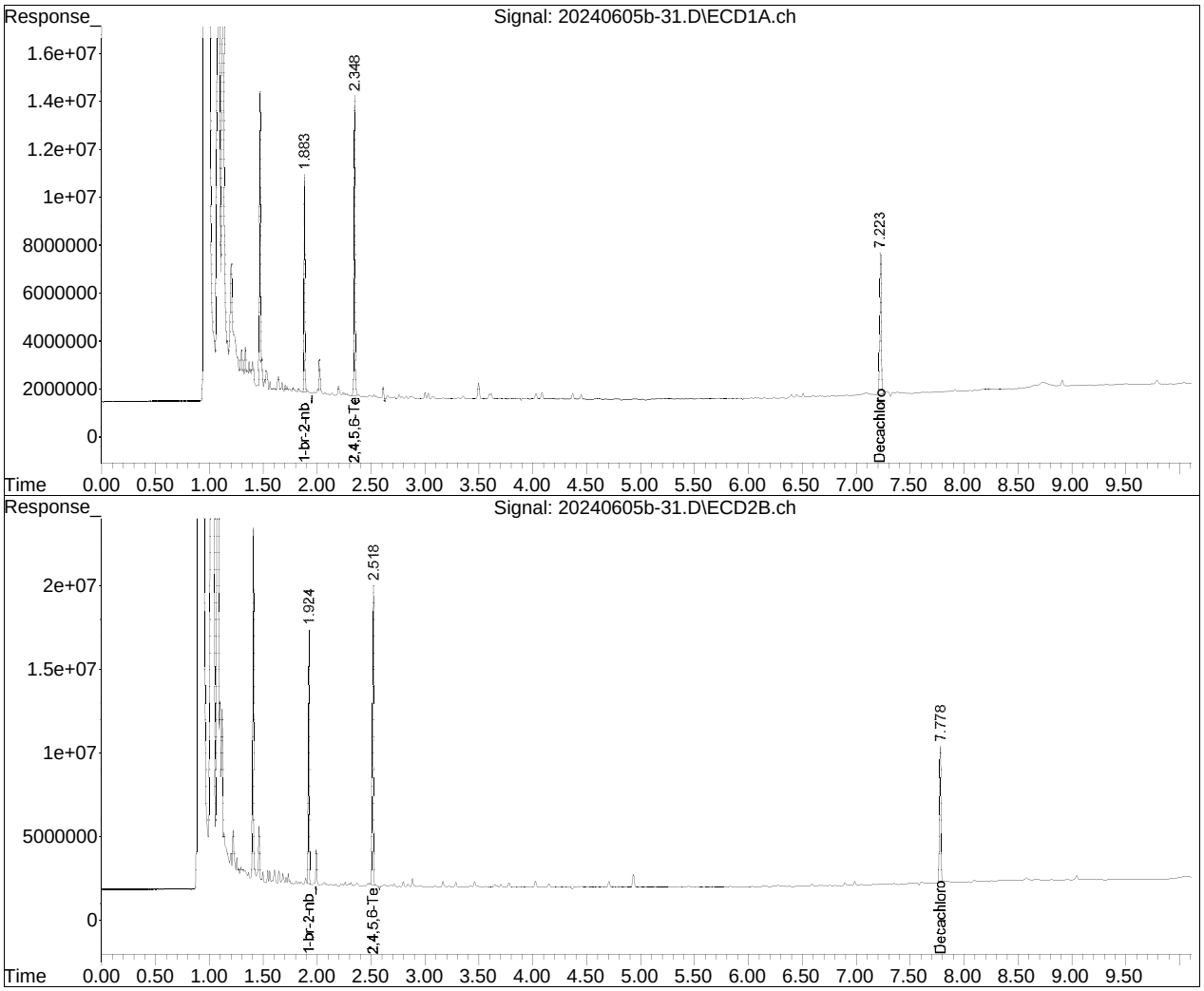
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedb\20240605b-03.D•

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-31.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jun 2024 01:21
Operator : pest20:jag
Sample : L2430219-10,42,,
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:51:45 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

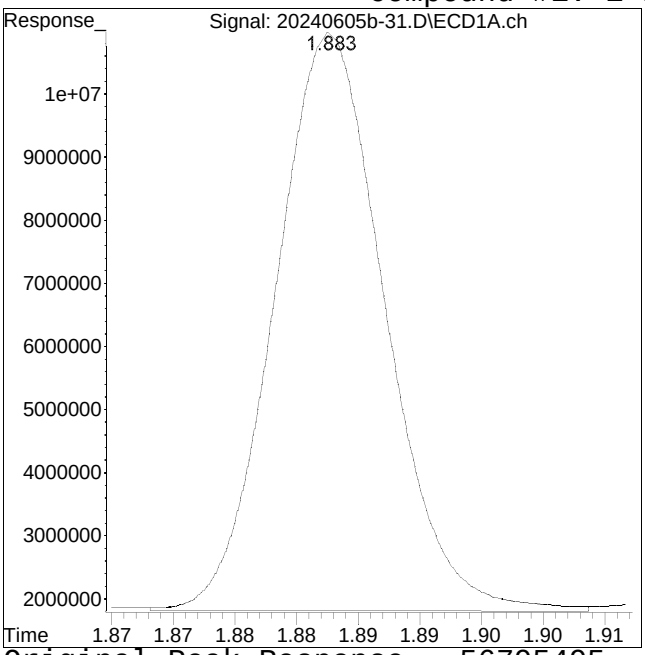
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



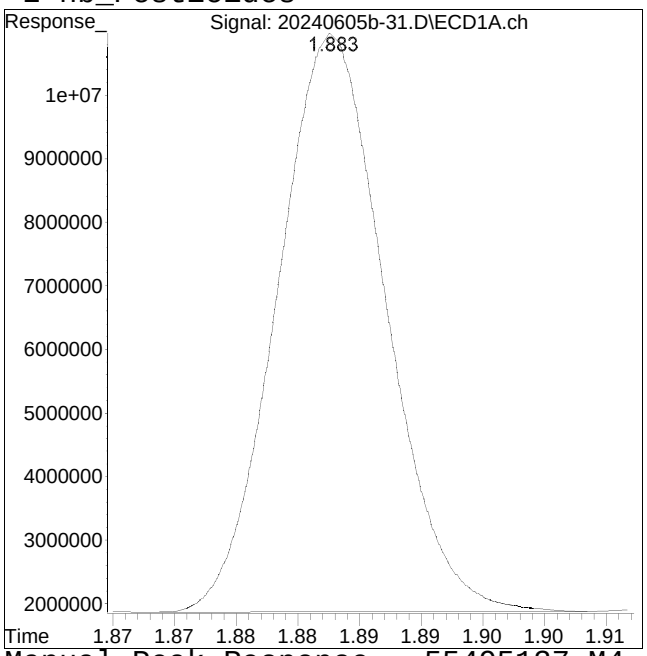
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-31.D Operator : pest20:jag
Date Inj'd : 6/6/2024 1:21 Instrument : PEST 20
Sample : L2430219-10,42,, Quant Date : 6/6/2024 5:51 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 56795495



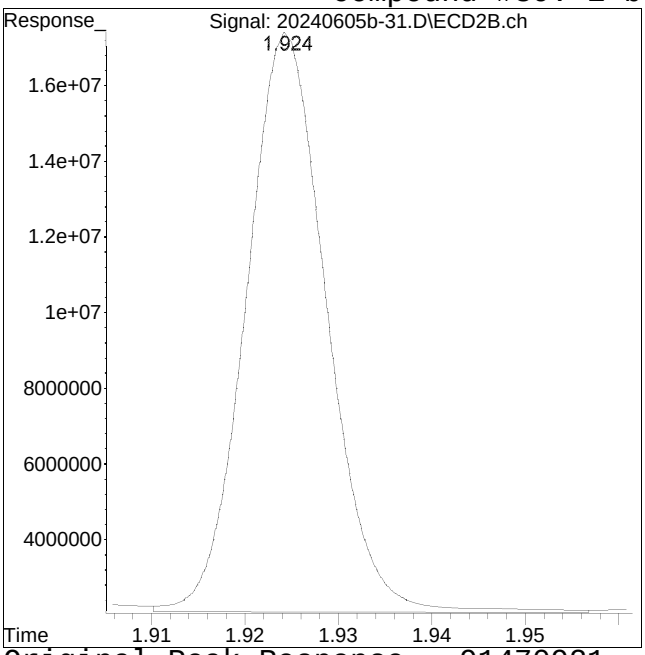
Manual Peak Response = 55495137 M4

M4 = Poor automated baseline construction.

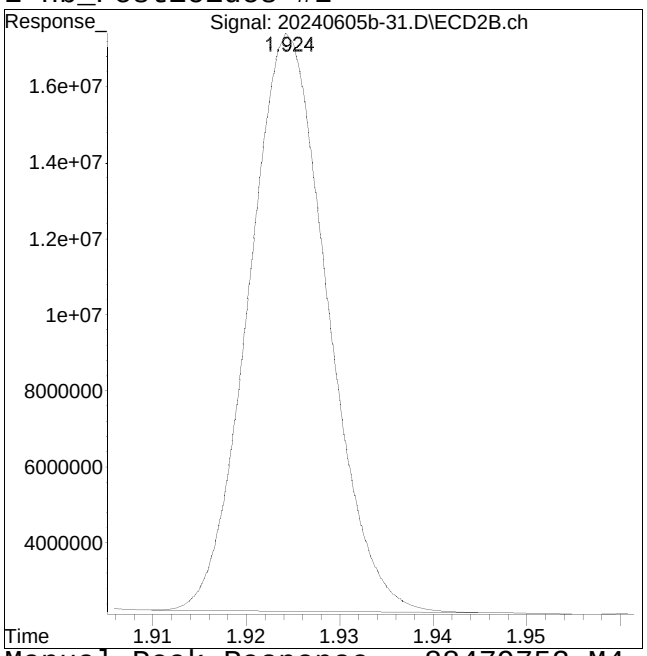
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-31.D Operator : pest20:jag
Date Inj'd : 6/6/2024 1:21 Instrument : PEST 20
Sample : L2430219-10,42,, Quant Date : 6/6/2024 5:51 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 91470921



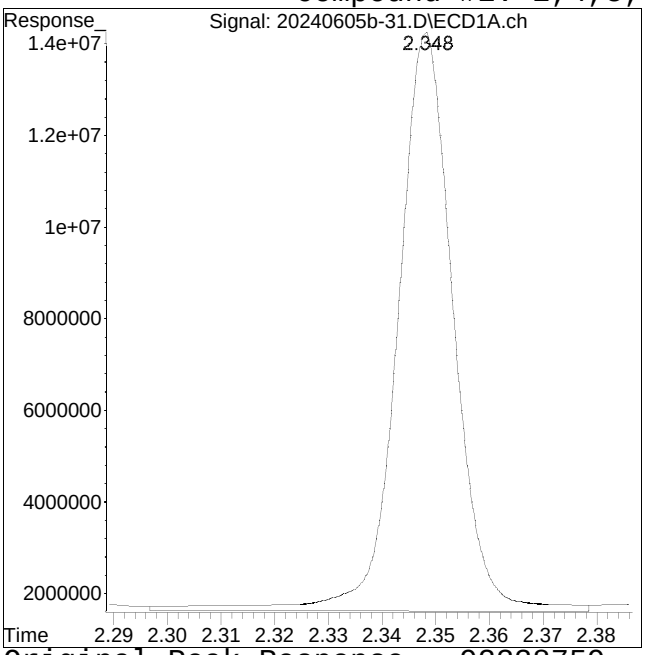
Manual Peak Response = 88479752 M4

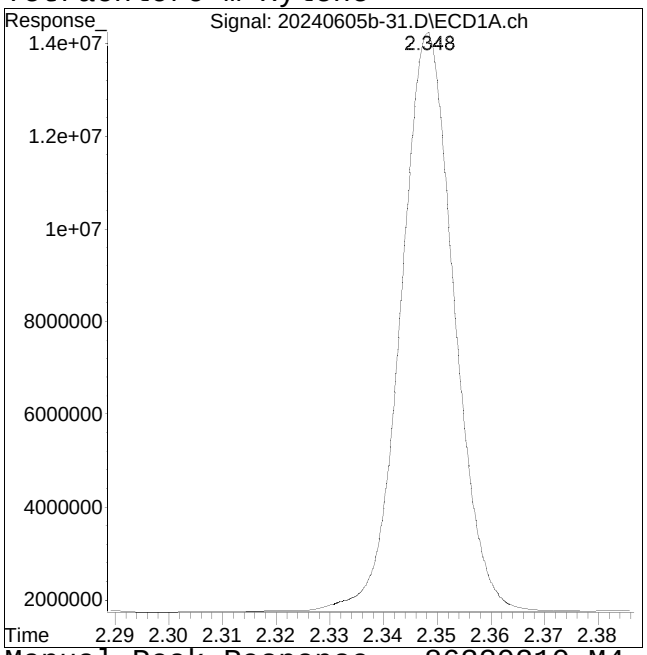
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-31.D Operator : pest20:jag
Date Inj'd : 6/6/2024 1:21 Instrument : PEST 20
Sample : L2430219-10,42,, Quant Date : 6/6/2024 5:51 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



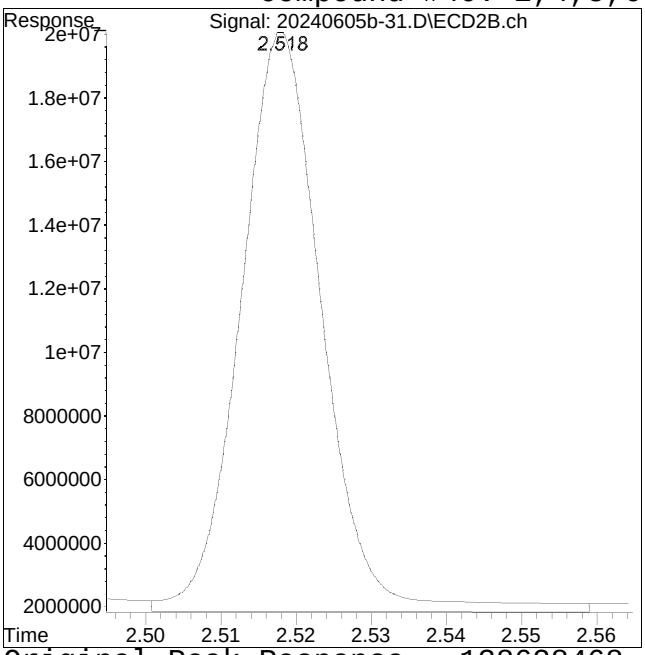


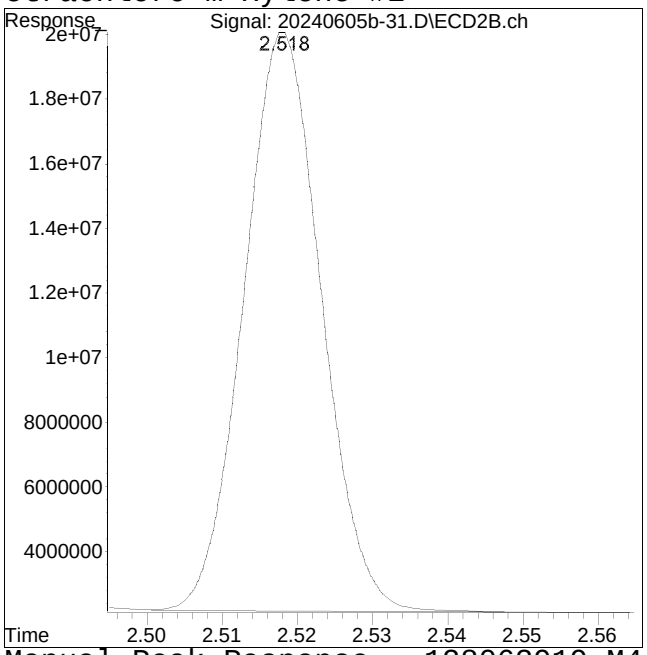
Original Peak Response = 92338759 Manual Peak Response = 86330210 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-31.D Operator : pest20:jag
Date Inj'd : 6/6/2024 1:21 Instrument : PEST 20
Sample : L2430219-10,42,, Quant Date : 6/6/2024 5:51 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



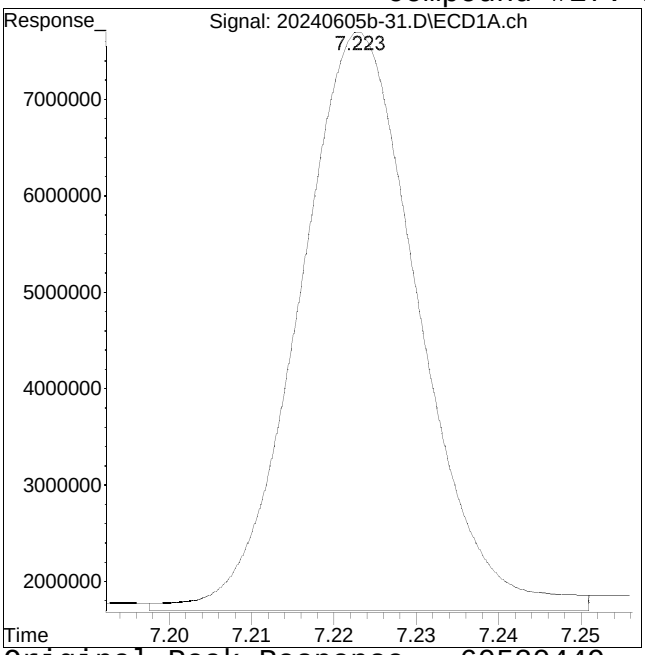


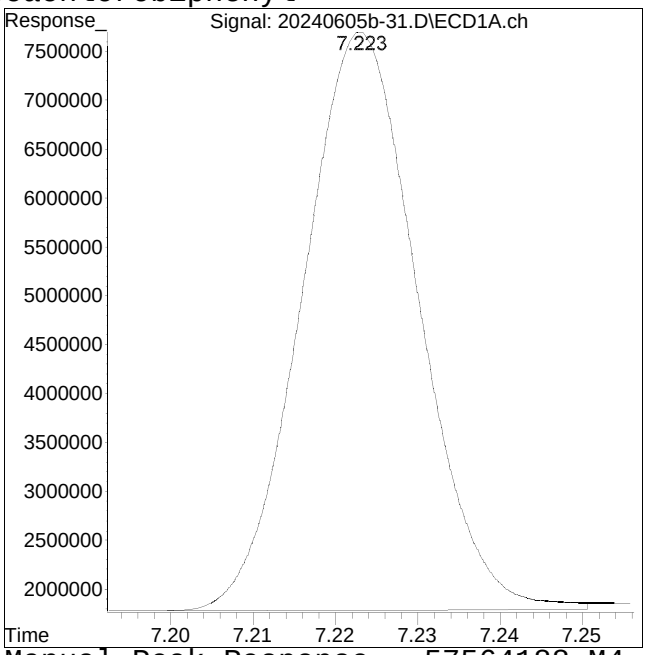
Original Peak Response = 138628468 Manual Peak Response = 128063919 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-31.D Operator : pest20:jag
Date Inj'd : 6/6/2024 1:21 Instrument : PEST 20
Sample : L2430219-10,42,, Quant Date : 6/6/2024 5:51 am

Compound #27: Decachlorobiphenyl



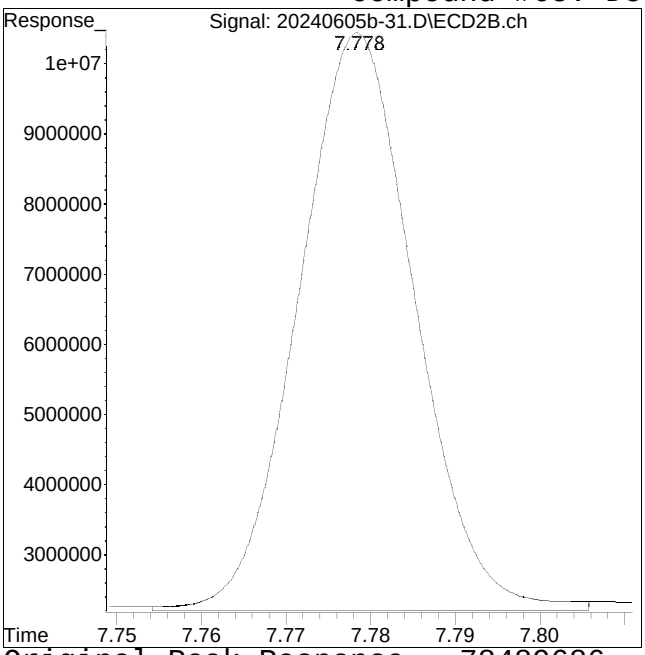


Original Peak Response = 60520449 Manual Peak Response = 57564188 M4
M4 = Poor automated baseline construction.

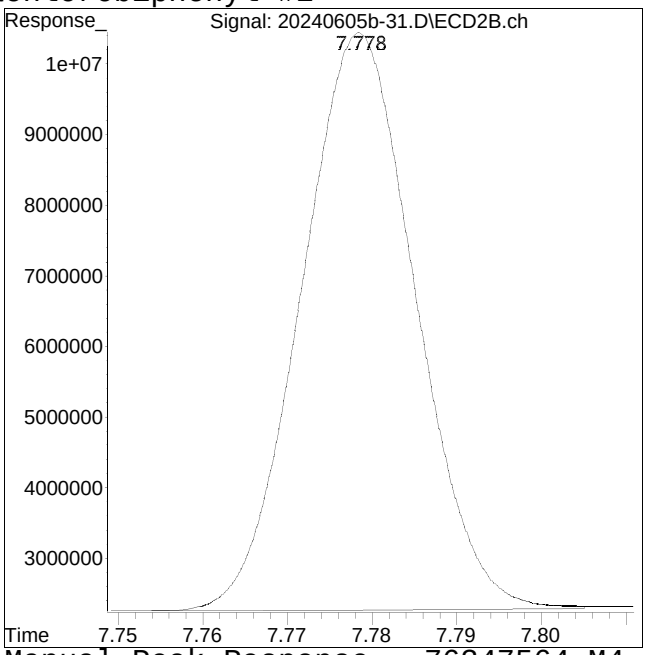
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-31.D Operator : pest20:jag
Date Inj'd : 6/6/2024 1:21 Instrument : PEST 20
Sample : L2430219-10,42,, Quant Date : 6/6/2024 5:51 am

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 78489686



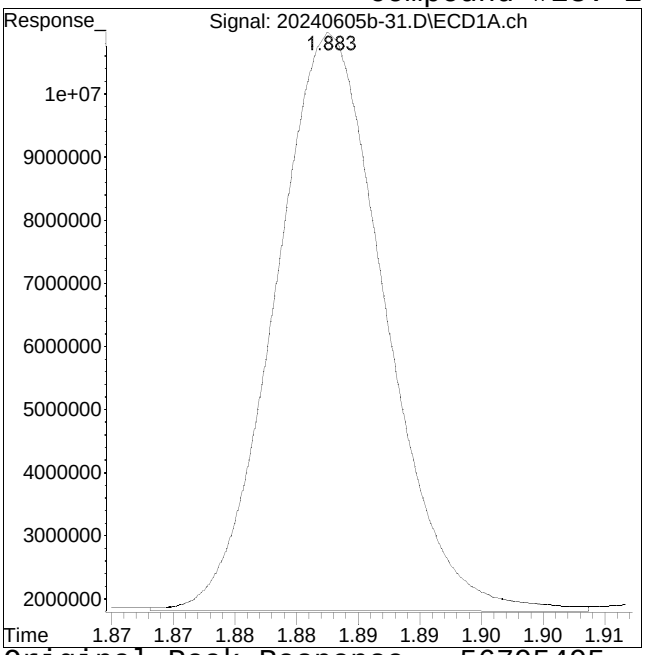
Manual Peak Response = 76347564 M4

M4 = Poor automated baseline construction.

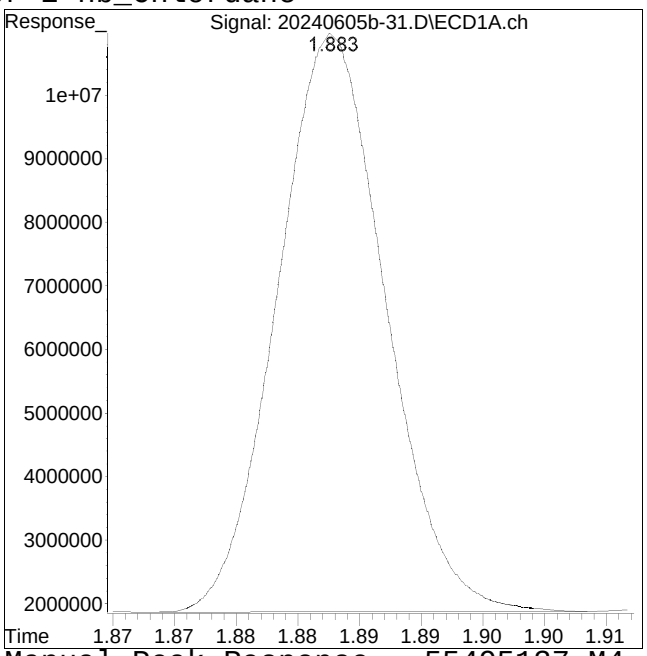
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-31.D Operator : pest20:jag
Date Inj'd : 6/6/2024 1:21 Instrument : PEST 20
Sample : L2430219-10,42,, Quant Date : 6/6/2024 5:51 am

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 56795495



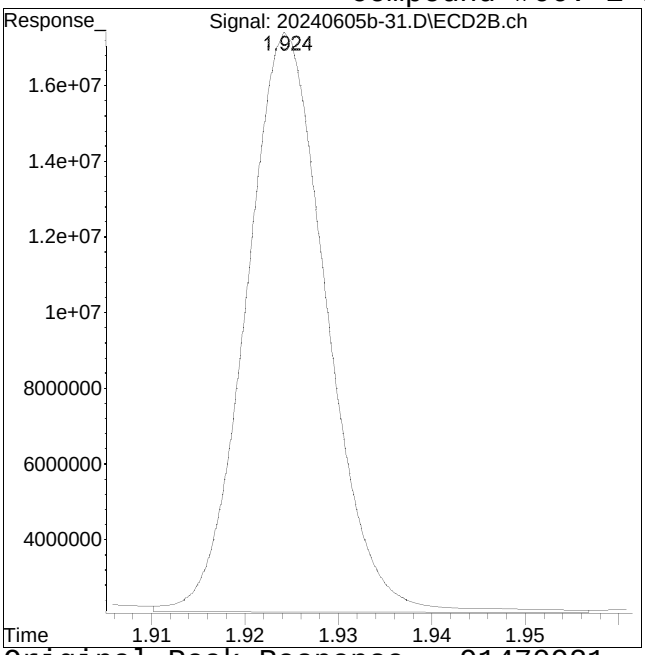
Manual Peak Response = 55495137 M4

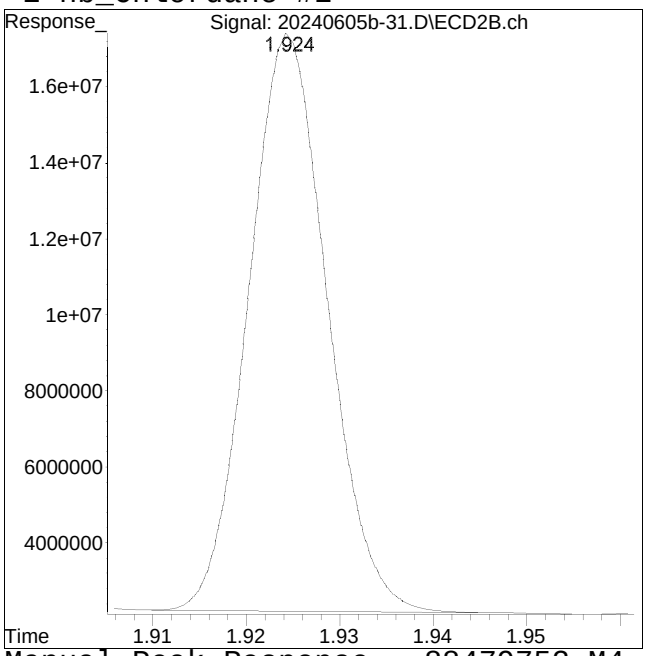
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-31.D Operator : pest20:jag
Date Inj'd : 6/6/2024 1:21 Instrument : PEST 20
Sample : L2430219-10,42,, Quant Date : 6/6/2024 5:51 am

Compound #66: 1-br-2-nb_Chlordane #2



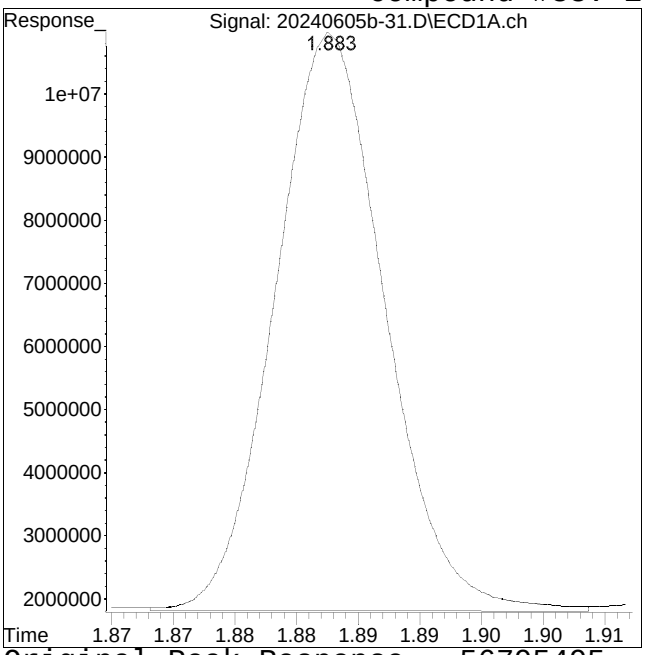


Original Peak Response = 91470921 Manual Peak Response = 88479752 M4
M4 = Poor automated baseline construction.

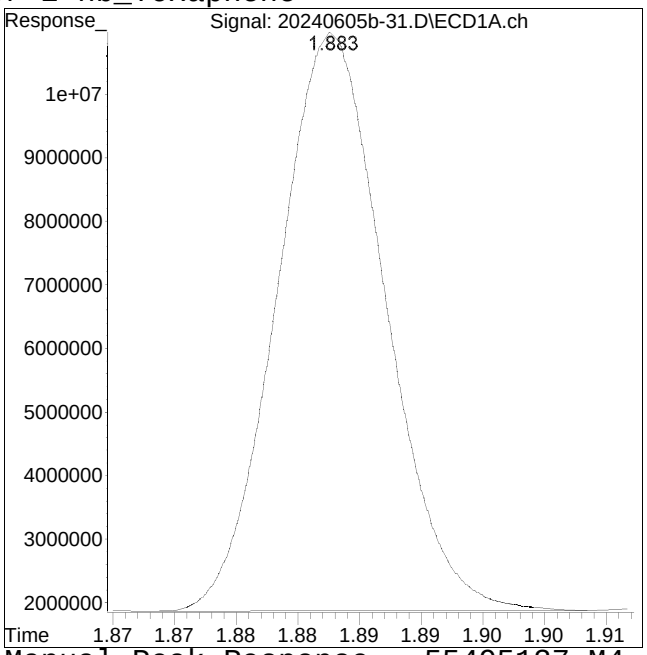
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-31.D Operator : pest20:jag
Date Inj'd : 6/6/2024 1:21 Instrument : PEST 20
Sample : L2430219-10,42,, Quant Date : 6/6/2024 5:51 am

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 56795495



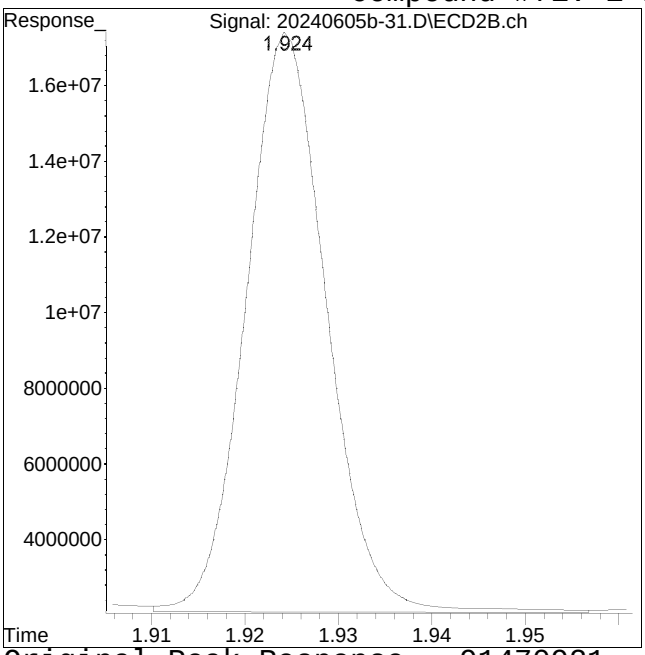
Manual Peak Response = 55495137 M4

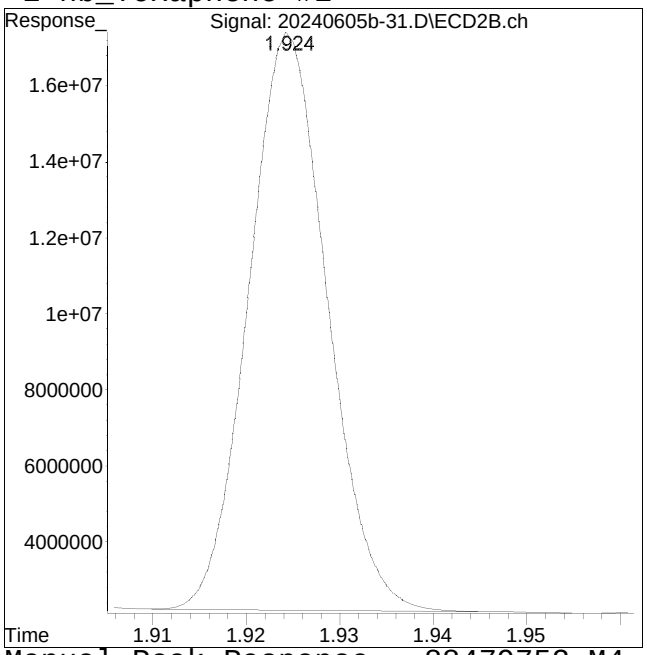
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-31.D Operator : pest20:jag
Date Inj'd : 6/6/2024 1:21 Instrument : PEST 20
Sample : L2430219-10,42,, Quant Date : 6/6/2024 5:51 am

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 91470921 Manual Peak Response = 88479752 M4
M4 = Poor automated baseline construction.

Pesticides Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2430219**
Project Name	**: HUNTINGTON READY MIXED**	**Project Number**	**: 20116**
Instrument ID	**: PEST20**	**Ical Ref**	**: ICAL21144**
Calibration dates	**: 05/14/24 16:57 05/14/24 21:43**		

Calibration Files

1 =20240514i-03.D 2 =20240514i-04.D 3 =20240514i-05.D 4 =20240514i-06.D 5 =20240514i-07.D

7 =20240514i-08.D 8 =20240514i-09.D 9 =20240514i-10.D 10 =20240514i-11.D 11 =20240514i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetrachloro-m-xylene	1.394	1.292	1.281	1.211	1.144	1.031	1.023	1.009	0.969		1.150	13.16
3)		Hexachlorobenzene	1.501	1.464	1.367	1.245	1.072	1.044	1.030				*L	0.999
6)														
4)		alpha-BHC	1.479	1.422	1.426	1.368	1.333	1.305	1.333	1.348	1.312		1.370	4.36
5)		gamma-BHC (li	1.494	1.450	1.395	1.380	1.311	1.257	1.199	1.210	1.223	1.186	1.310	8.56
6)		beta-BHC	0.793	0.780	0.737	0.674	0.568	0.554	0.547				*L	0.999
4)														
7)		delta-BHC	1.141	1.106	1.126	1.090	1.086	1.102	1.157	1.193	1.191		1.132	3.60
8)		Heptachlor	1.596	1.501	1.477	1.391	1.289	1.164	1.158	1.164	1.115		1.317	13.60
9)		Aldrin	1.487	1.411	1.398	1.344	1.265	1.185	1.195	1.213	1.163		1.296	9.06
10)		Alachlor	0.187	0.188	0.196	0.195	0.194	0.170	0.159	0.145	0.132		0.174	13.68
11)		Chlorpyrifos	0.673	0.687	0.670	0.625	0.514	0.493	0.478				*L	0.998
3)														
12)		Heptachlor Ep	1.529	1.449	1.436	1.369	1.248	1.118	1.097	1.105	1.050		1.267	14.37
13)		gamma-Chlorda	1.383	1.313	1.292	1.242	1.136	1.016	1.014	1.033	0.990		1.158	13.15
14)		alpha-Chlorda	1.614	1.485	1.490	1.444	1.297	1.157	1.143	1.163	1.106		1.322	14.32
15)		4,4'-DDE	1.395	1.287	1.275	1.258	1.178	1.107	1.132	1.168	1.120		1.213	7.95
16)		Endosulfan I	1.407	1.353	1.347	1.300	1.194	1.087	1.060	1.072	1.017		1.204	12.46
17)		Dieldrin	1.399	1.346	1.329	1.289	1.211	1.116	1.118	1.146	1.088		1.227	9.49
18)		Endrin	1.445	1.317	1.340	1.281	1.207	1.120	1.116	1.143	1.082		1.228	10.13
19)		4,4'-DDD	0.879	0.830	0.883	0.873	0.854	0.843	0.857	0.897	0.864		0.864	2.41
20)		Endosulfan II	1.194	1.129	1.127	1.109	1.042	0.955	0.950	0.970	0.923		1.044	9.45
21)		4,4'-DDT	1.035	0.941	0.963	0.971	0.921	0.879	0.884	0.933	0.894		0.935	5.31
22)		Endrin Aldehyde	0.858	0.811	0.858	0.851	0.805	0.763	0.785	0.807	0.775		*L	0.999
6)														
23)		Methoxychlor	0.508	0.491	0.503	0.514	0.505	0.473	0.454	0.446	0.426		0.480	6.60
24)		Mirex	1.267	1.244	1.208	1.101	0.907	0.847	0.856				*L	0.998
7)														
25)		Endosulfan Su	0.869	0.900	0.926	0.898	0.856	0.809	0.813	0.841	0.811		0.858	5.06
26)		Endrin Ketone	1.068	0.995	1.013	1.009	0.960	0.911	0.916	0.934	0.908		0.968	5.80
27)	s	Decachlorobip	1.359	1.407	1.345	1.225	1.017	0.964	0.975				*L	0.998
8)														
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1	0.052	0.050	0.043	0.038	0.036	0.036					*L	0.999
4)														

Initial Calibration Summary
Form 6
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2430219**
Project Name	**: HUNTINGTON READY MIXED**	**Project Number**	**: 20116**
Instrument ID	**: PEST20**	**Ical Ref**	**: ICAL21144**
Calibration dates	**: 05/14/24 16:57 05/14/24 21:43**		

Calibration Files

1 =20240514i-03.D 2 =20240514i-04.D 3 =20240514i-05.D 4 =20240514i-06.D 5 =20240514i-07.D

7 =20240514i-08.D 8 =20240514i-09.D 9 =20240514i-10.D 10 =20240514i-11.D 11 =20240514i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
30) 8)	l1	chlordane-3	0.074	0.066	0.057	0.049	0.045	0.044					*L	0.997
31) 9)	l1	chlordane-4	0.225	0.197	0.170	0.160	0.156	0.156					*L	0.999
32) 9)	l1	chlordane-5	0.351	0.303	0.262	0.246	0.239	0.240					*L	0.999
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1	0.046	0.046			0.041	0.039	0.037				0.042	9.31
35)	l2	toxaphene-2	0.032	0.032			0.030	0.029	0.030				0.031	4.24
36)	l2	toxaphene-4	0.030	0.027			0.023	0.023	0.022				0.025	14.07
37)	l2	toxaphene-5	0.047	0.041			0.036	0.035	0.035				0.039	13.07

Initial Calibration Summary
Form 6
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2430219**
Project Name	**: HUNTINGTON READY MIXED**	**Project Number**	**: 20116**
Instrument ID	**: PEST20**	**Ical Ref**	**: ICAL21144**
Calibration dates	**: 05/14/24 16:57 05/14/24 21:43**		

Signal #2 Calibration Files

1 =20240514i-03.D 2 =20240514i-04.D 3 =20240514i-05.D 4 =20240514i-06.D 5 =20240514i-07.D
7 =20240514i-08.D 8 =20240514i-09.D 9 =20240514i-10.D 10 =20240514i-11.D 11 =20240514i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra		1.271	1.220	1.214	1.153	1.111	1.019	1.014	1.010	0.971	1.109	9.96
3)		Hexachloroben			1.403	1.366	1.298	1.211	1.054	1.032	1.025		*L	0.999
7)														
4)		alpha-BHC		1.453	1.394	1.390	1.339	1.334	1.320	1.354	1.380	1.358	1.369	2.96
5)		gamma-BHC (li	.740	1.441	1.359	1.344	1.285	1.263	1.213	1.232	1.252	1.229	1.336	11.90
6)		beta-BHC			0.755	0.745	0.709	0.666	0.576	0.565	0.561		*L	0.999
6)														
7)		delta-BHC		1.349	1.296	1.286	1.226	1.220	1.206	1.245	1.280	1.274	1.265	3.55
8)		Heptachlor		1.498	1.390	1.376	1.300	1.239	1.137	1.139	1.149	1.112	1.260	10.98
9)		Aldrin		1.312	1.239	1.254	1.197	1.160	1.111	1.128	1.149	1.113	1.185	5.94
10)		Alachlor	0.218	0.216	0.221	0.215	0.202	0.171	0.160	0.152	0.139		0.188	17.33
11)		Chlorpyrifos		0.794	0.797	0.760	0.682	0.563	0.534	0.516			*L	0.998
3)														
12)		Heptachlor Ep	1.355	1.320	1.322	1.293	1.198	1.078	1.074	1.090	1.049		1.198	10.54
13)		gamma-Chlorda	1.244	1.166	1.157	1.101	1.046	0.953	0.951	0.974	0.944		1.060	10.57
14)		alpha-Chlorda	1.361	1.279	1.272	1.226	1.166	1.065	1.061	1.083	1.042		1.173	9.94
15)		4,4'-DDE	1.260	1.183	1.194	1.157	1.129	1.083	1.088	1.122	1.068		1.143	5.45
16)		Endosulfan I	1.280	1.191	1.183	1.144	1.085	0.999	1.004	1.016	0.977		1.098	9.73
17)		Dieldrin	1.278	1.176	1.184	1.142	1.097	1.047	1.053	1.083	1.041		1.122	7.11
18)		Endrin	1.295	1.193	1.199	1.159	1.115	1.066	1.067	1.100	1.053		1.138	7.02
19)		4,4'-DDD	1.015	0.935	0.959	0.930	0.914	0.878	0.879	0.913	0.874		0.922	4.92
20)		Endosulfan II	1.186	1.113	1.130	1.085	1.030	0.948	0.941	0.963	0.916		1.035	9.42
21)		4,4'-DDT	1.101	1.045	1.068	1.034	0.999	0.947	0.941	0.980	0.929		1.005	6.03
22)		Endrin Aldehyde	0.980	0.915	0.925	0.892	0.845	0.794	0.798	0.816	0.773		*L	0.999
4)														
23)		Methoxychlor	0.678	0.659	0.657	0.635	0.604	0.531	0.506	0.510	0.470		0.583	13.52
24)		Mirex		1.121	1.125	1.069	0.966	0.808	0.765	0.772			*L	0.999
0)														
25)		Endosulfan Su	1.137	1.068	1.077	1.036	0.972	0.885	0.872	0.892	0.846		0.976	10.94
26)		Endrin Ketone	1.297	1.199	1.221	1.179	1.127	1.046	1.017	1.046	0.987		1.124	9.46
27)	s	Decachlorobip		1.208	1.205	1.156	1.063	0.907	0.853	0.854			*L	0.999
0)														
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1		0.046	0.043	0.038	0.034	0.033	0.031				*L	0.997
8)														

Initial Calibration Summary
Form 6
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2430219**
Project Name	**: HUNTINGTON READY MIXED**	**Project Number**	**: 20116**
Instrument ID	**: PEST20**	**Ical Ref**	**: ICAL21144**
Calibration dates	**: 05/14/24 16:57 05/14/24 21:43**		

Signal #2 Calibration Files

1 =20240514i-03.D 2 =20240514i-04.D 3 =20240514i-05.D 4 =20240514i-06.D 5 =20240514i-07.D
7 =20240514i-08.D 8 =20240514i-09.D 9 =20240514i-10.D 10 =20240514i-11.D 11 =20240514i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
30)	l1	chlordane-3	0.061	0.057	0.048	0.043	0.039	0.036				*L		0.994
8)														
31)	l1	chlordane-4	0.180	0.168	0.143	0.136	0.130	0.123				*L		0.998
4)														
32)	l1	chlordane-5	0.142	0.133	0.116	0.108	0.103	0.097				*L		0.998
1)														
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1	0.024	0.023		0.021	0.020	0.020				0.022		7.30
35)	l2	toxaphene-2	0.036	0.034		0.031	0.030	0.030				0.032		9.05
36)	l2	toxaphene-4	0.041	0.040		0.036	0.035	0.036				0.038		6.49
37)	l2	toxaphene-5	0.044	0.038		0.034	0.033	0.033				0.036		13.12

Response Factor Report PEST 20

Method Path : I:\PEST\Pest20\2024\240514ical\
Method File : pest20_2024_05_14_ugL_ICAL.m
Title : pest
Last Update : Fri May 17 13:43:56 2024
Response Via : Initial Calibration

Calibration Files
1 =20240514i-03.D 2 =20240514i-04.D 3 =20240514i-05.D 4 =20240514i-06.D 5 =20240514i-07.D
7 =20240514i-08.D 8 =20240514i-09.D 9 =20240514i-10.D 10 =20240514i-11.D 11 =20240514i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra...		1.394	1.292	1.281	1.211	1.144	1.031	1.023	1.009	0.969	1.150	13.16
3)		Hexachloroben...			1.501	1.464	1.367	1.245	1.072	1.044	1.030		*L	0.999
6														
4)		alpha-BHC		1.479	1.422	1.426	1.368	1.333	1.305	1.333	1.348	1.312	1.370	4.36
5)		gamma-BHC (li...	1.494	1.450	1.395	1.380	1.311	1.257	1.199	1.210	1.223	1.186	1.310	8.56
6)		beta-BHC			0.793	0.780	0.737	0.674	0.568	0.554	0.547		*L	0.999
4														
7)		delta-BHC		1.141	1.106	1.126	1.090	1.086	1.102	1.157	1.193	1.191	1.132	3.60
8)		Heptachlor		1.596	1.501	1.477	1.391	1.289	1.164	1.158	1.164	1.115	1.317	13.60
9)		Aldrin		1.487	1.411	1.398	1.344	1.265	1.185	1.195	1.213	1.163	1.296	9.06
10)		Alachlor		0.187	0.188	0.196	0.195	0.194	0.170	0.159	0.145	0.132	0.174	13.68
11)		Chlorpyrifos			0.673	0.687	0.670	0.625	0.514	0.493	0.478		*L	0.998
3														
12)		Heptachlor Ep...		1.529	1.449	1.436	1.369	1.248	1.118	1.097	1.105	1.050	1.267	14.37
13)		gamma-Chlorda...		1.383	1.313	1.292	1.242	1.136	1.016	1.014	1.033	0.990	1.158	13.15
14)		alpha-Chlorda...		1.614	1.485	1.490	1.444	1.297	1.157	1.143	1.163	1.106	1.322	14.32
15)		4,4'-DDE		1.395	1.287	1.275	1.258	1.178	1.107	1.132	1.168	1.120	1.213	7.95
16)		Endosulfan I		1.407	1.353	1.347	1.300	1.194	1.087	1.060	1.072	1.017	1.204	12.46

Response Factor Report PEST 20

Method Path : I:\PEST\Pest20\2024\240514ical\
Method File : pest20_2024_05_14_ugL_ICAL.m
Title : pest
Last Update : Fri May 17 13:43:56 2024
Response Via : Initial Calibration

Calibration Files
1 =20240514i-03.D 2 =20240514i-04.D 3 =20240514i-05.D 4 =20240514i-06.D 5 =20240514i-07.D
7 =20240514i-08.D 8 =20240514i-09.D 9 =20240514i-10.D 10 =20240514i-11.D 11 =20240514i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
17)		Dieldrin		1.399	1.346	1.329	1.289	1.211	1.116	1.118	1.146	1.088	1.227	9.49
18)		Endrin		1.445	1.317	1.340	1.281	1.207	1.120	1.116	1.143	1.082	1.228	10.13
19)		4,4'-DDD		0.879	0.830	0.883	0.873	0.854	0.843	0.857	0.897	0.864	0.864	2.41
20)		Endosulfan II		1.194	1.129	1.127	1.109	1.042	0.955	0.950	0.970	0.923	1.044	9.45
21)		4,4'-DDT		1.035	0.941	0.963	0.971	0.921	0.879	0.884	0.933	0.894	0.935	5.31
22)		Endrin Aldehyde		0.858	0.811	0.858	0.851	0.805	0.763	0.785	0.807	0.775	*L	0.999
6														
23)		Methoxychlor		0.508	0.491	0.503	0.514	0.505	0.473	0.454	0.446	0.426	0.480	6.60
24)		Mirex			1.267	1.244	1.208	1.101	0.907	0.847	0.856		*L	0.998
7														
25)		Endosulfan Su...		0.869	0.900	0.926	0.898	0.856	0.809	0.813	0.841	0.811	0.858	5.06
26)		Endrin Ketone		1.068	0.995	1.013	1.009	0.960	0.911	0.916	0.934	0.908	0.968	5.80
27)	s	Decachlorobip...			1.359	1.407	1.345	1.225	1.017	0.964	0.975		*L	0.998
8														
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.052	0.050	0.043	0.038	0.036	0.036			*L	0.999
4														
30)	l1	chlordane-3			0.074	0.066	0.057	0.049	0.045	0.044			*L	0.997
8														
31)	l1	chlordane-4			0.225	0.197	0.170	0.160	0.156	0.156			*L	0.999
9														
32)	l1	chlordane-5			0.351	0.303	0.262	0.246	0.239	0.240			*L	0.999
9														

Method Path : I:\PEST\Pest20\2024\240514ical\
Method File : pest20_2024_05_14_ugL_ICAL.m
Title : pest
Last Update : Fri May 17 13:43:56 2024
Response Via : Initial Calibration

Calibration Files
1 =20240514i-03.D 2 =20240514i-04.D 3 =20240514i-05.D 4 =20240514i-06.D 5 =20240514i-07.D
7 =20240514i-08.D 8 =20240514i-09.D 9 =20240514i-10.D 10 =20240514i-11.D 11 =20240514i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1			0.046	0.046		0.041	0.039	0.037			0.042	9.31
35)	l2	toxaphene-2			0.032	0.032		0.030	0.029	0.030			0.031	4.24
36)	l2	toxaphene-4			0.030	0.027		0.023	0.023	0.022			0.025	14.07
37)	l2	toxaphene-5			0.047	0.041		0.036	0.035	0.035			0.039	13.07

Signal #2 Calibration Files
1 =20240514i-03.D 2 =20240514i-04.D 3 =20240514i-05.D 4 =20240514i-06.D 5 =20240514i-07.D
7 =20240514i-08.D 8 =20240514i-09.D 9 =20240514i-10.D 10 =20240514i-11.D 11 =20240514i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra...	1.271	1.220	1.214	1.153	1.111	1.019	1.014	1.010	0.971		1.109	9.96
3)		Hexachloroben...			1.403	1.366	1.298	1.211	1.054	1.032	1.025		*L	0.999
7														
4)		alpha-BHC	1.453	1.394	1.390	1.339	1.334	1.320	1.354	1.380	1.358		1.369	2.96
5)		gamma-BHC (li...	1.740	1.441	1.359	1.344	1.285	1.263	1.213	1.232	1.252	1.229	1.336	11.90
6)		beta-BHC			0.755	0.745	0.709	0.666	0.576	0.565	0.561		*L	0.999
6														
7)		delta-BHC	1.349	1.296	1.286	1.226	1.220	1.206	1.245	1.280	1.274		1.265	3.55
8)		Heptachlor	1.498	1.390	1.376	1.300	1.239	1.137	1.139	1.149	1.112		1.260	10.98
9)		Aldrin	1.312	1.239	1.254	1.197	1.160	1.111	1.128	1.149	1.113		1.185	5.94

Response Factor Report PEST 20

Method Path : I:\PEST\Pest20\2024\240514ical\
Method File : pest20_2024_05_14_ugL_ICAL.m
Title : pest
Last Update : Fri May 17 13:43:56 2024
Response Via : Initial Calibration

Calibration Files
1 =20240514i-03.D 2 =20240514i-04.D 3 =20240514i-05.D 4 =20240514i-06.D 5 =20240514i-07.D
7 =20240514i-08.D 8 =20240514i-09.D 9 =20240514i-10.D 10 =20240514i-11.D 11 =20240514i-12.D

	Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
10)	Alachlor		0.218	0.216	0.221	0.215	0.202	0.171	0.160	0.152	0.139	0.188	17.33
11)	Chlorpyrifos			0.794	0.797	0.760	0.682	0.563	0.534	0.516		*L	0.998
3													
12)	Heptachlor Ep...		1.355	1.320	1.322	1.293	1.198	1.078	1.074	1.090	1.049	1.198	10.54
13)	gamma-Chlorda...		1.244	1.166	1.157	1.101	1.046	0.953	0.951	0.974	0.944	1.060	10.57
14)	alpha-Chlorda...		1.361	1.279	1.272	1.226	1.166	1.065	1.061	1.083	1.042	1.173	9.94
15)	4,4'-DDE		1.260	1.183	1.194	1.157	1.129	1.083	1.088	1.122	1.068	1.143	5.45
16)	Endosulfan I		1.280	1.191	1.183	1.144	1.085	0.999	1.004	1.016	0.977	1.098	9.73
17)	Dieldrin		1.278	1.176	1.184	1.142	1.097	1.047	1.053	1.083	1.041	1.122	7.11
18)	Endrin		1.295	1.193	1.199	1.159	1.115	1.066	1.067	1.100	1.053	1.138	7.02
19)	4,4'-DDD		1.015	0.935	0.959	0.930	0.914	0.878	0.879	0.913	0.874	0.922	4.92
20)	Endosulfan II		1.186	1.113	1.130	1.085	1.030	0.948	0.941	0.963	0.916	1.035	9.42
21)	4,4'-DDT		1.101	1.045	1.068	1.034	0.999	0.947	0.941	0.980	0.929	1.005	6.03
22)	Endrin Aldehyde		0.980	0.915	0.925	0.892	0.845	0.794	0.798	0.816	0.773	*L	0.999
4													
23)	Methoxychlor		0.678	0.659	0.657	0.635	0.604	0.531	0.506	0.510	0.470	0.583	13.52
24)	Mirex			1.121	1.125	1.069	0.966	0.808	0.765	0.772		*L	0.999
0													
25)	Endosulfan Su...		1.137	1.068	1.077	1.036	0.972	0.885	0.872	0.892	0.846	0.976	10.94

Method Path : I:\PEST\Pest20\2024\240514ical\
Method File : pest20_2024_05_14_ugL_ICAL.m
Title : pest
Last Update : Fri May 17 13:43:56 2024
Response Via : Initial Calibration

Calibration Files
1 =20240514i-03.D 2 =20240514i-04.D 3 =20240514i-05.D 4 =20240514i-06.D 5 =20240514i-07.D
7 =20240514i-08.D 8 =20240514i-09.D 9 =20240514i-10.D 10 =20240514i-11.D 11 =20240514i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
26)		Endrin Ketone	1.297	1.199	1.221	1.179	1.127	1.046	1.017	1.046	0.987		1.124	9.46
27)	s	Decachlorobip...			1.208	1.205	1.156	1.063	0.907	0.853	0.854		*L	0.999 0
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.046	0.043	0.038	0.034	0.033	0.031			*L	0.997 8
30)	l1	chlordane-3			0.061	0.057	0.048	0.043	0.039	0.036			*L	0.994 8
31)	l1	chlordane-4			0.180	0.168	0.143	0.136	0.130	0.123			*L	0.998 4
32)	l1	chlordane-5			0.142	0.133	0.116	0.108	0.103	0.097			*L	0.998 1
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1			0.024	0.023		0.021	0.020	0.020			0.022	7.30
35)	l2	toxaphene-2			0.036	0.034		0.031	0.030	0.030			0.032	9.05
36)	l2	toxaphene-4			0.041	0.040		0.036	0.035	0.036			0.038	6.49
37)	l2	toxaphene-5			0.044	0.038		0.034	0.033	0.033			0.036	13.12

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 04:45 pm
Operator : pest20:peg
Sample : pem20240514i-01,42e,,pp 11529 (Sig #1); pem-01,42e,,pp 11529 (Sig #2)
Misc : wg1922578,
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:53:04 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:52:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.934	1.971	53022504	70080014	25.000M4	25.000M4
	System Monitoring Compounds						
	Target Compounds						
15) D	4,4'-DDE	4.740	5.403	7213302	2339948	2.803M4	0.731M4
18)	Endrin	5.289	5.841	131.4E6	169.6E6	50.450M4	53.149M4
19) D	4,4'-DDD	5.387	5.953	1807871	1536776	0.986M4	0.595M4
21)	4,4'-DDT	5.659	6.221	199.6E6	292.3E6	100.598M4	103.782M4
22) D	Endrin Aldeh	5.909	6.321	1271334	1274209	0.615M4	0.207M4
26)	Endrin Keton	6.509	6.961	1712893	2241167	0.836	0.714
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 04:45 pm
Operator : pest20:peg
Sample : pem20240514i-01,42e,,pp 11529 (Sig #1); pem-01,42e,,pp 11529 (Sig #2)
Misc : wg1922578,
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:53:04 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:52:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

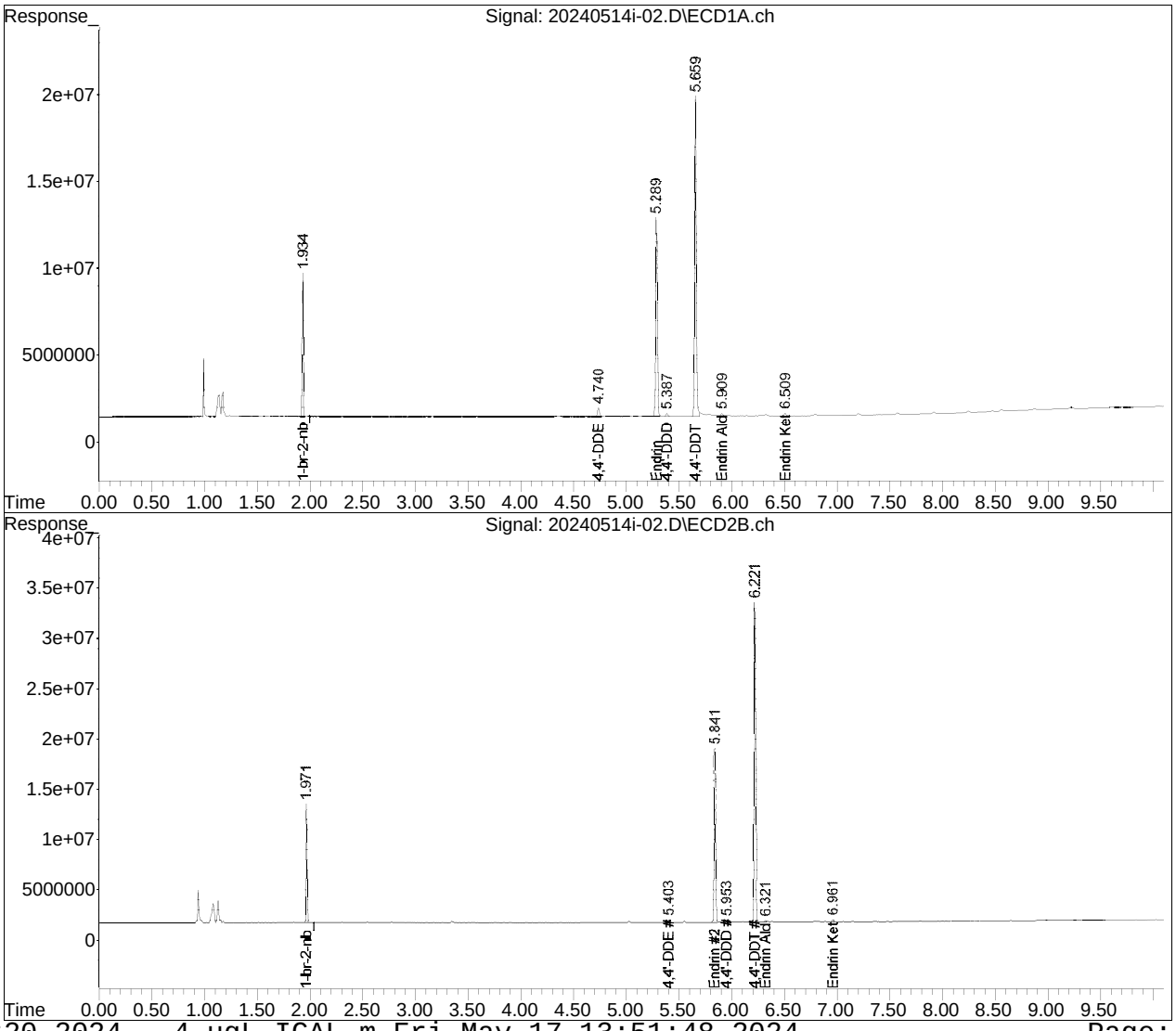
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 04:45 pm
Operator : pest20:peg
Sample : pem20240514i-01,42e,,pp 11529 (Sig #1); pem-01,42e,,pp 11529 (Sig
Misc : wg1922578,
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:53:04 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:52:10 2024
Response via : Initial Calibration
Integrator: ChemStation

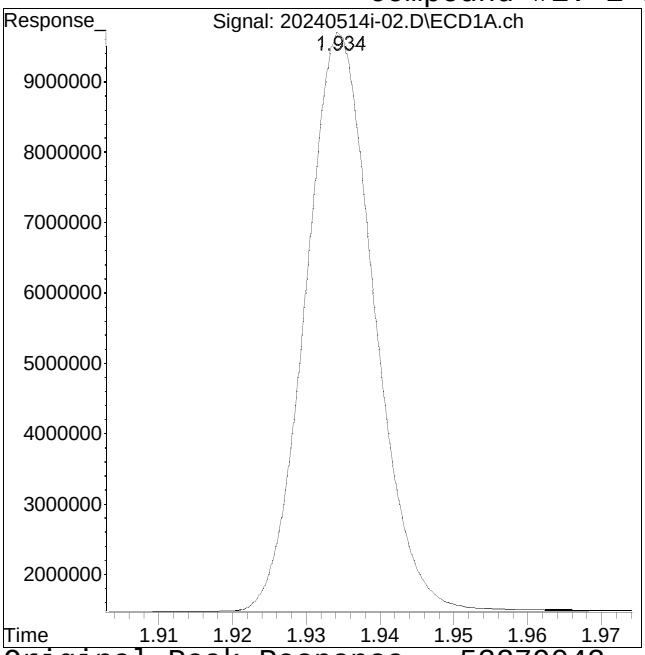
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



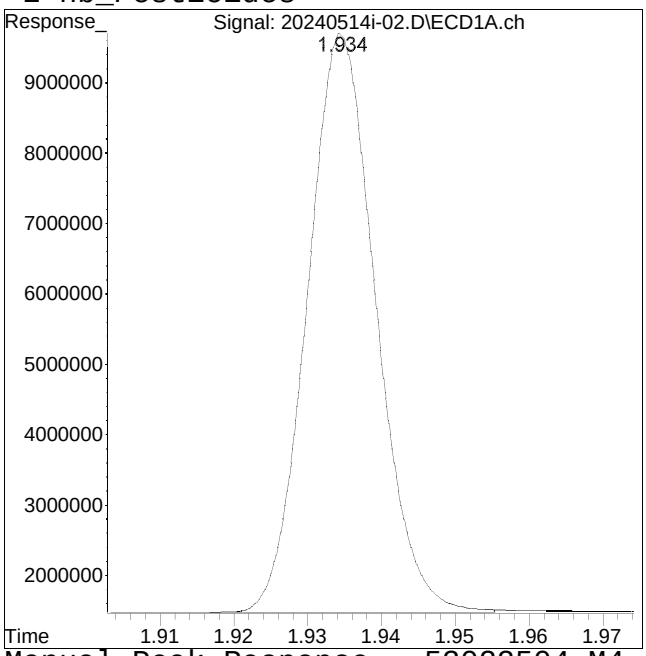
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-02.D Operator : pest20:peg
Date Inj'd : 5/14/2024 4:45 pm Instrument : PEST 20
Sample : pem20240514i-01,42e,,pp 11Quant Date : 5/17/2024 9:53 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 53279042

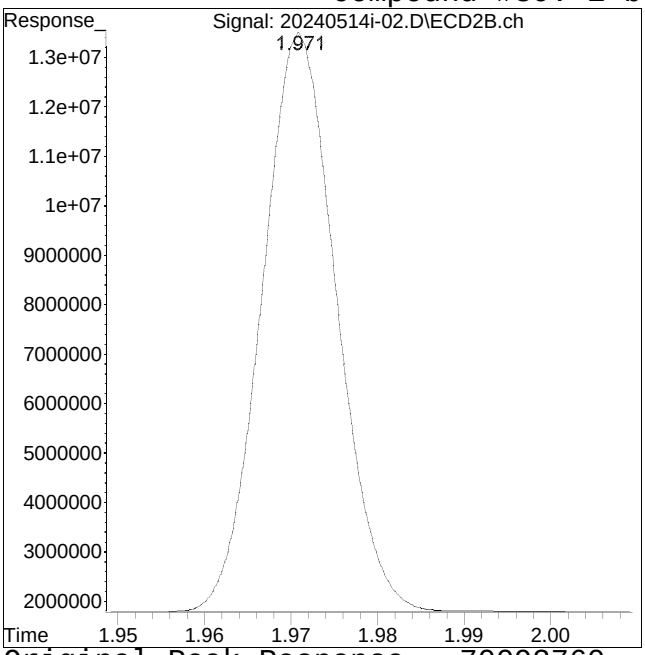


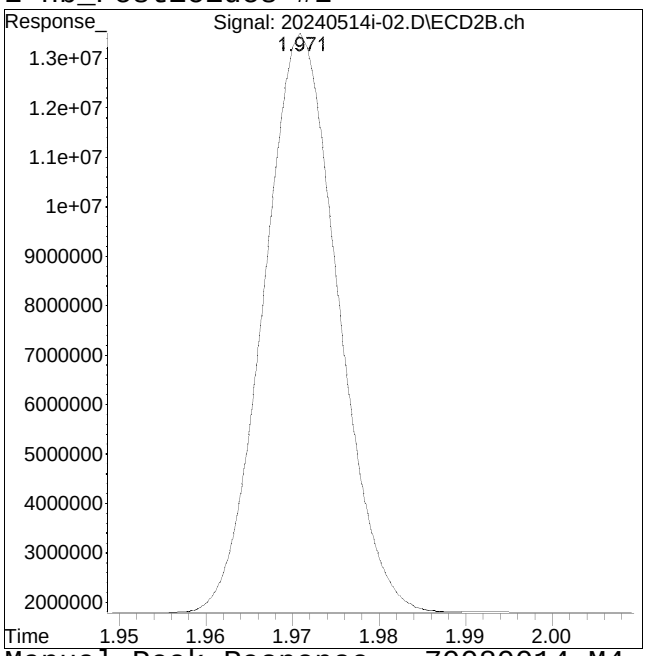
Manual Peak Response = 53022504 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-02.D Operator : pest20:peg
Date Inj'd : 5/14/2024 4:45 pm Instrument : PEST 20
Sample : pem20240514i-01,42e,,pp 11Quant Date : 5/17/2024 9:53 am

Compound #39: 1-br-2-nb_Pesticides #2



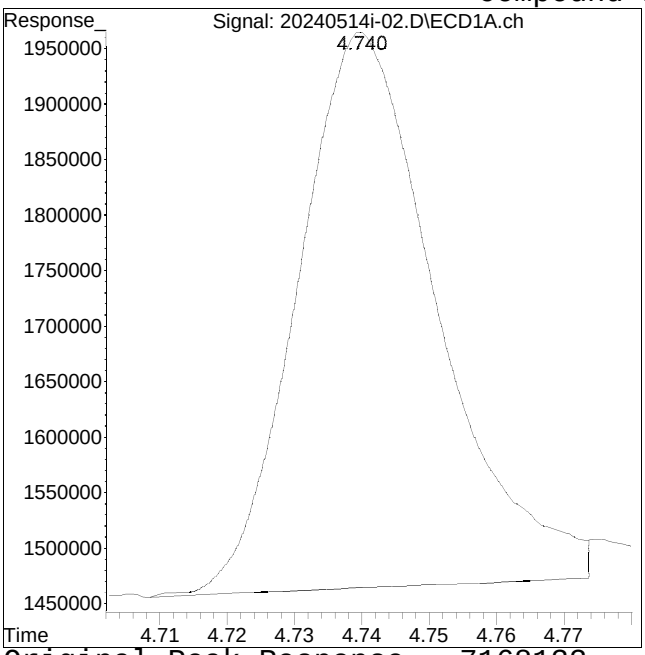


Original Peak Response = 70093760 Manual Peak Response = 70080014 M4
M4 = Poor automated baseline construction.

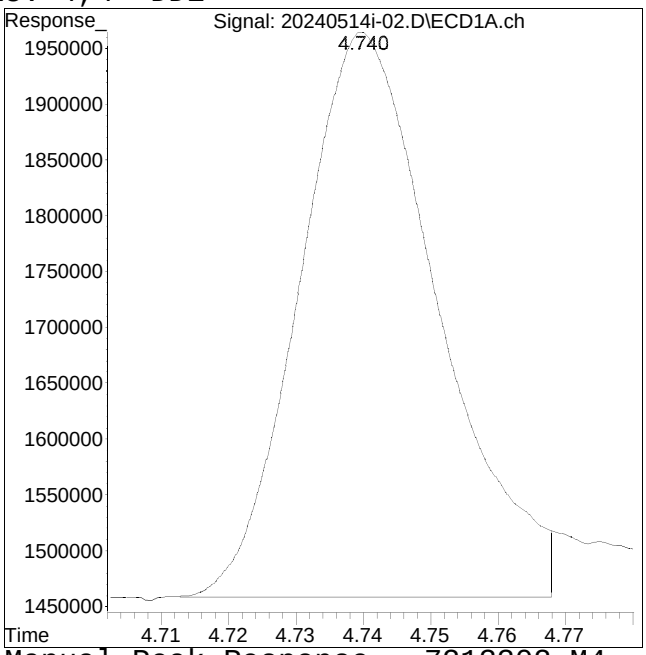
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-02.D Operator : pest20:peg
Date Inj'd : 5/14/2024 4:45 pm Instrument : PEST 20
Sample : pem20240514i-01,42e,,pp 11Quant Date : 5/17/2024 9:53 am

Compound #15: 4,4'-DDE



Original Peak Response = 7168133



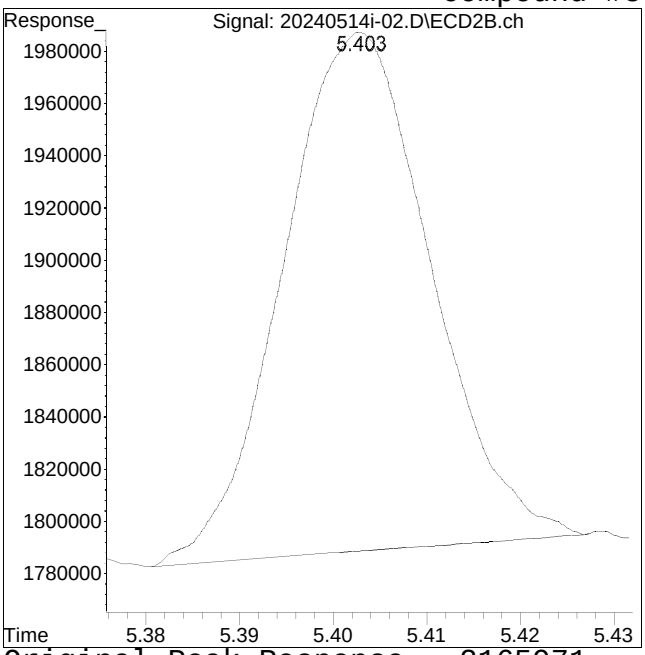
Manual Peak Response = 7213302 M4

M4 = Poor automated baseline construction.

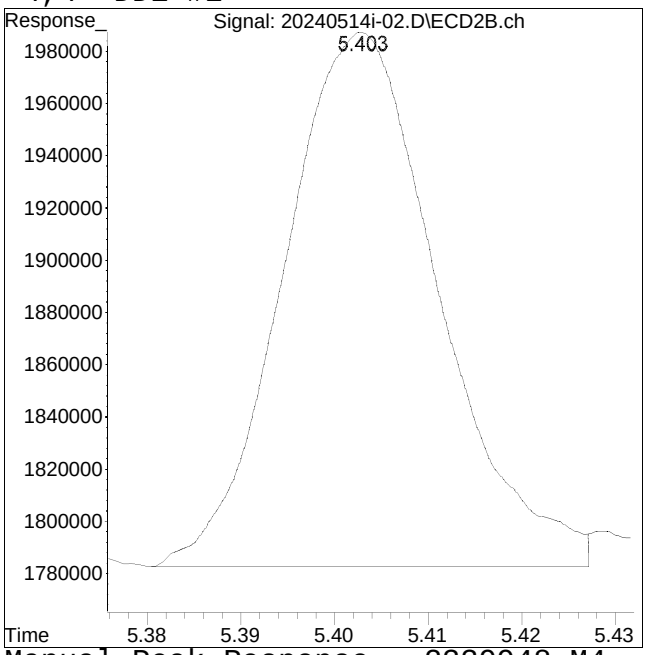
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-02.D Operator : pest20:peg
Date Inj'd : 5/14/2024 4:45 pm Instrument : PEST 20
Sample : pem20240514i-01,42e,,pp 11Quant Date : 5/17/2024 9:53 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 2165971



Manual Peak Response = 2339948 M4

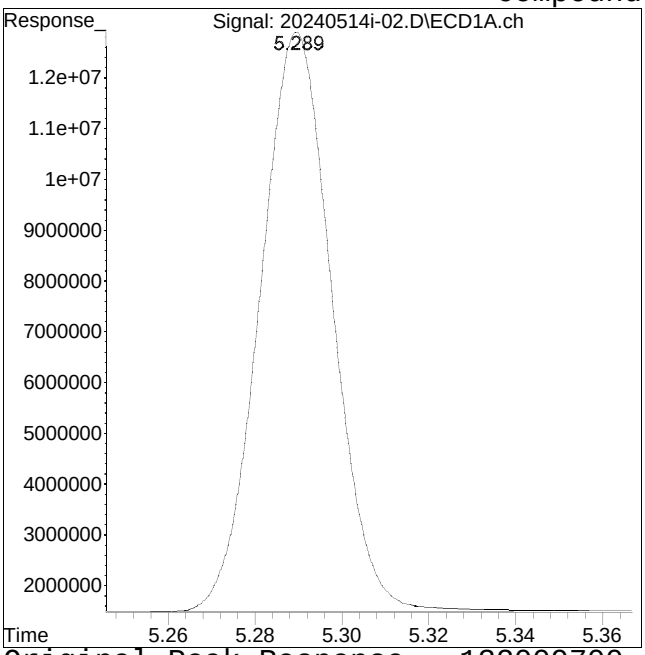
M4 = Poor automated baseline construction.

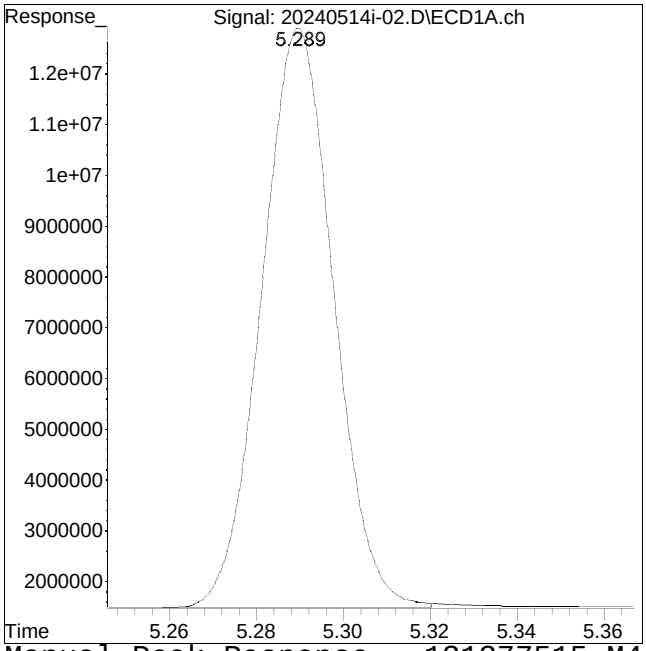
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-02.D
Date Inj'd : 5/14/2024 4:45 pm
Sample : pem20240514i-01,42e,,pp 11

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/17/2024 9:53 am

Compound #18: Endrin



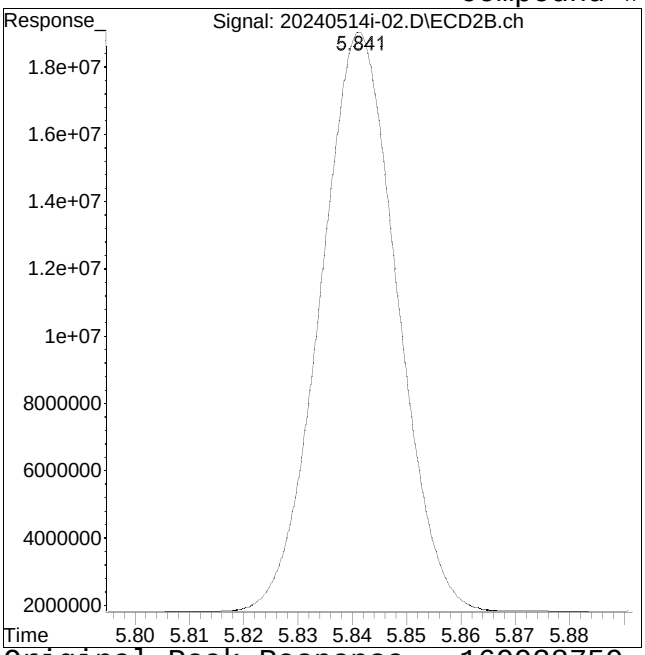


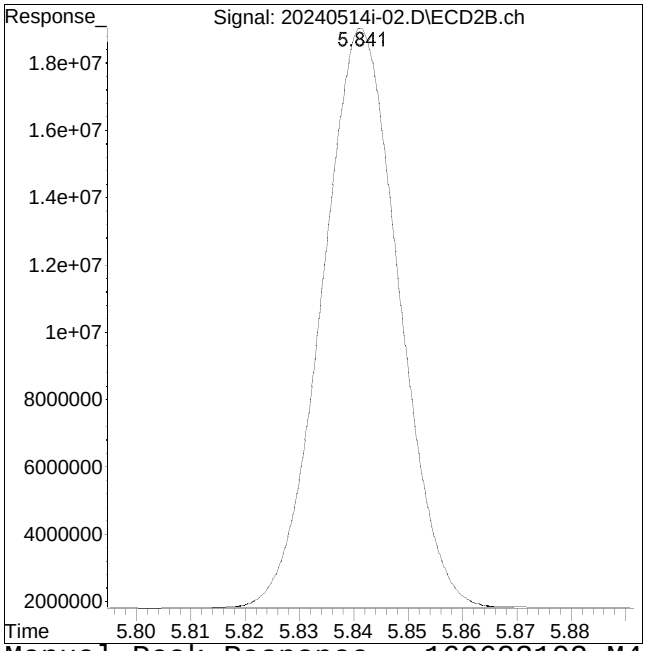
Original Peak Response = 132009700 Manual Peak Response = 131377515 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-02.D Operator : pest20:peg
Date Inj'd : 5/14/2024 4:45 pm Instrument : PEST 20
Sample : pem20240514i-01,42e,,pp 11Quant Date : 5/17/2024 9:53 am

Compound #56: Endrin #2



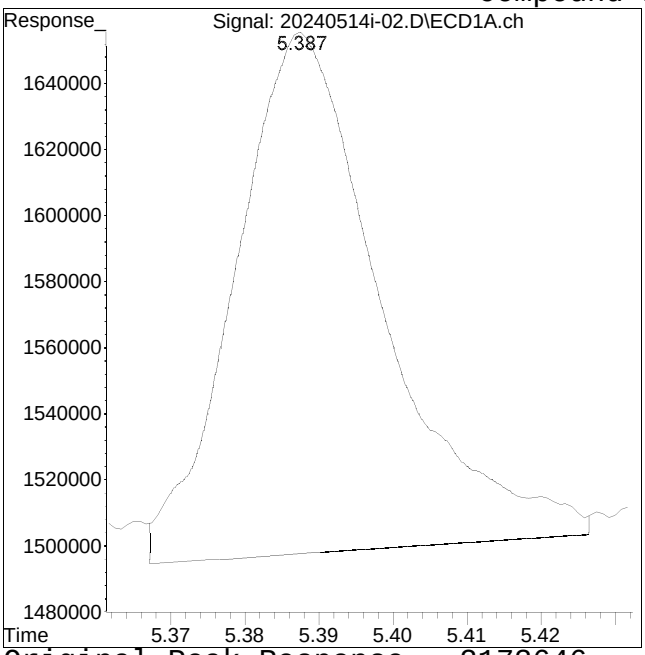


Original Peak Response = 169938759 Manual Peak Response = 169623102 M4
M4 = Poor automated baseline construction.

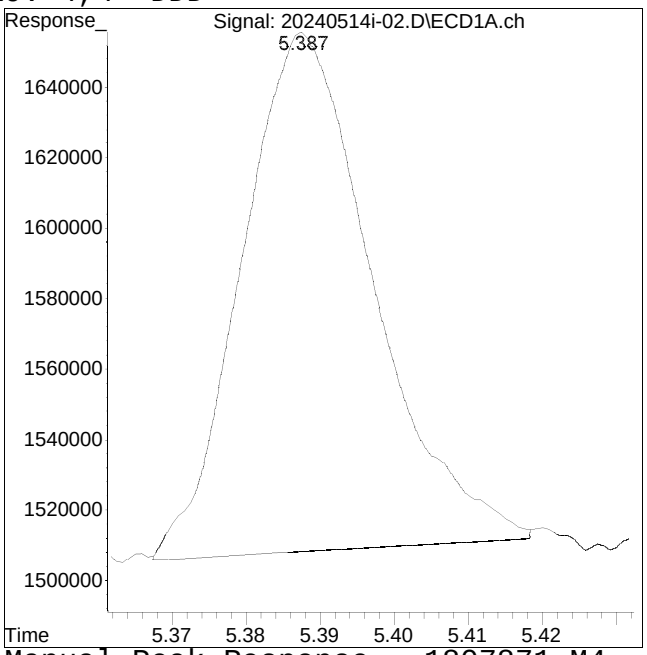
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-02.D Operator : pest20:peg
Date Inj'd : 5/14/2024 4:45 pm Instrument : PEST 20
Sample : pem20240514i-01,42e,,pp 11Quant Date : 5/17/2024 9:53 am

Compound #19: 4,4'-DDD



Original Peak Response = 2173646



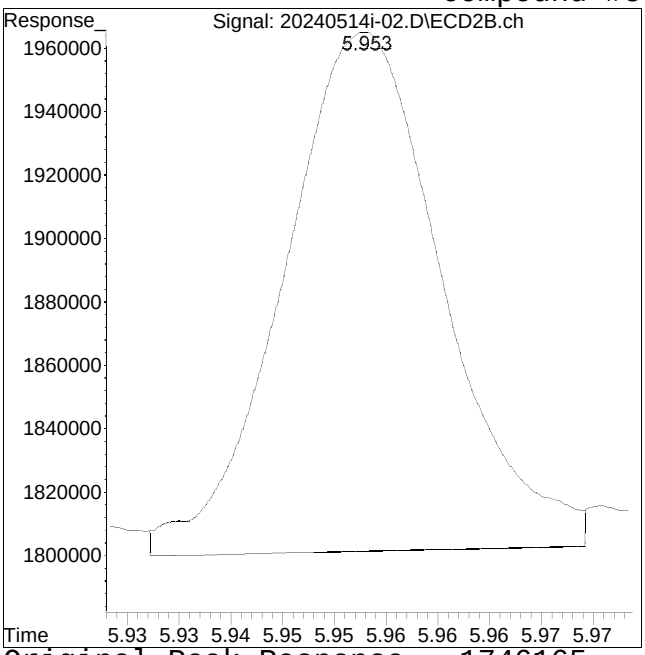
Manual Peak Response = 1807871 M4

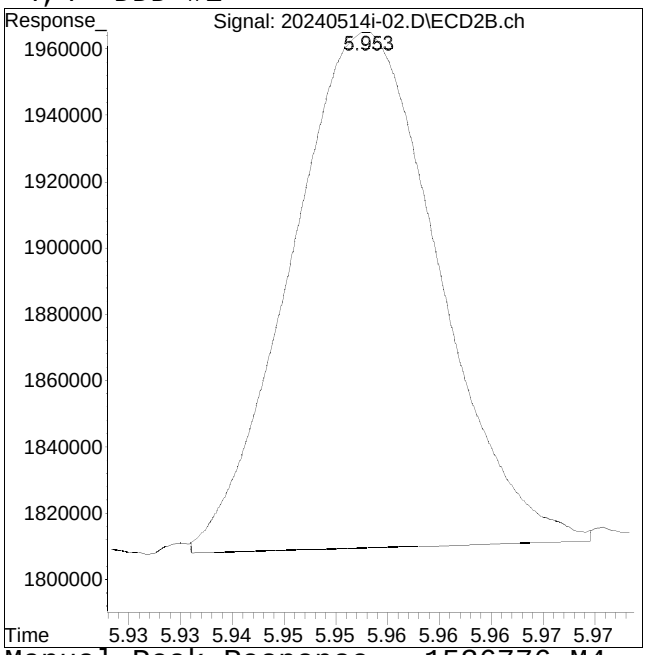
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-02.D Operator : pest20:peg
Date Inj'd : 5/14/2024 4:45 pm Instrument : PEST 20
Sample : pem20240514i-01,42e,,pp 11Quant Date : 5/17/2024 9:53 am

Compound #57: 4,4'-DDD #2



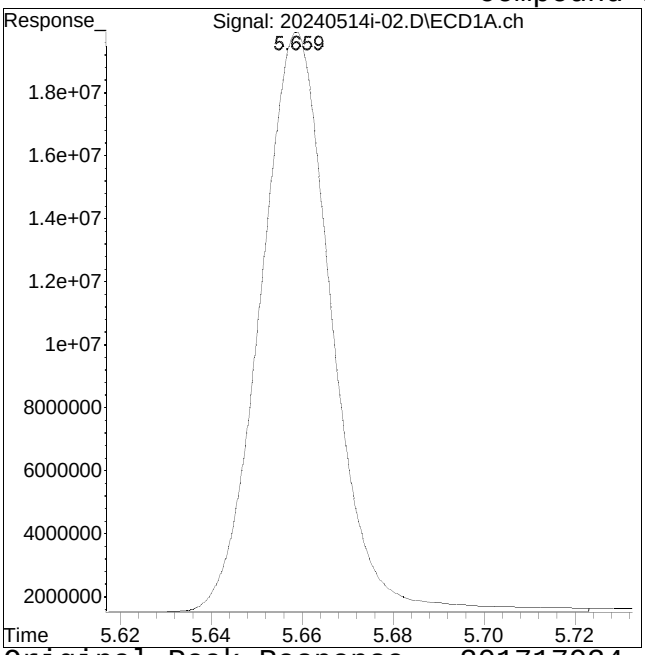


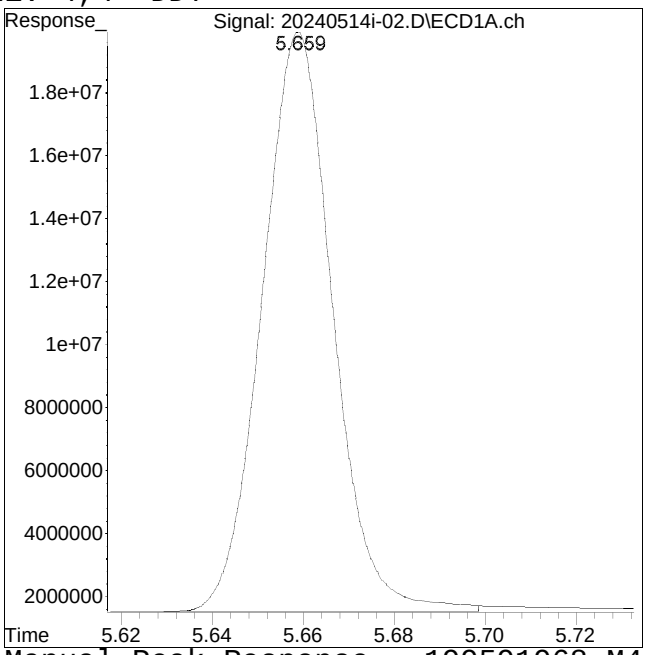
Original Peak Response = 1746165 Manual Peak Response = 1536776 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-02.D Operator : pest20:peg
Date Inj'd : 5/14/2024 4:45 pm Instrument : PEST 20
Sample : pem20240514i-01,42e,,pp 11Quant Date : 5/17/2024 9:53 am

Compound #21: 4,4'-DDT



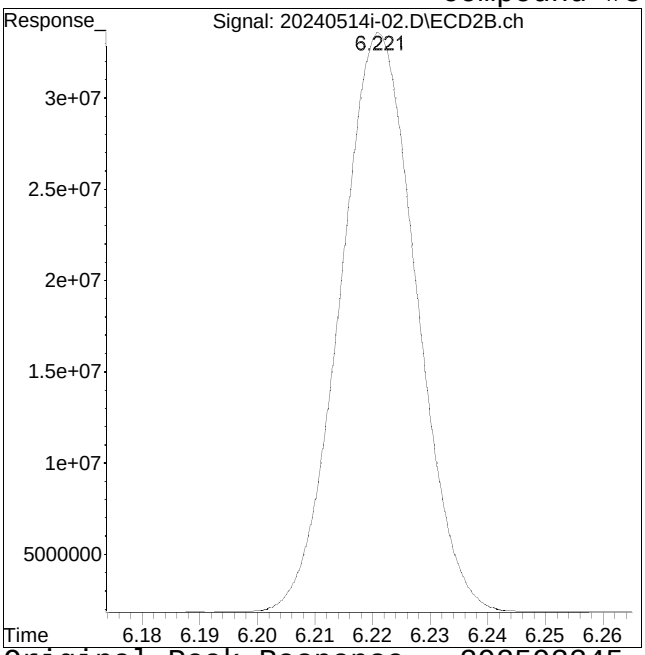


Original Peak Response = 201717934 Manual Peak Response = 199591968 M4
M4 = Poor automated baseline construction.

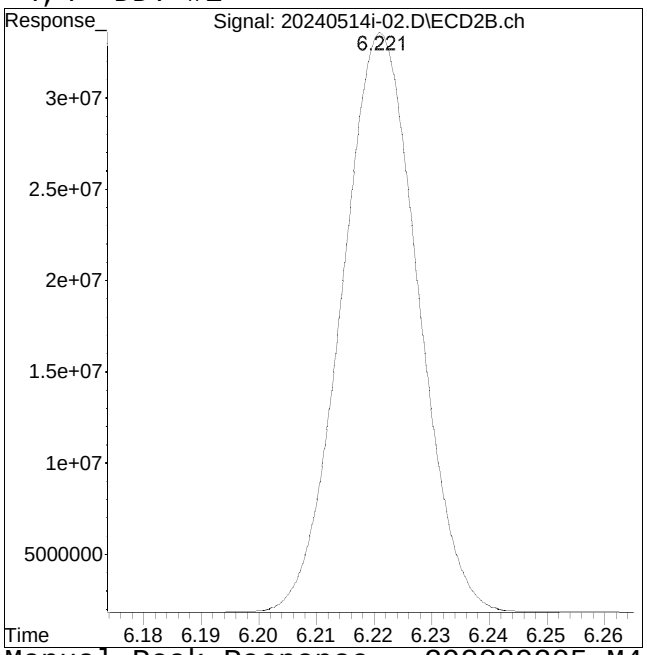
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-02.D Operator : pest20:peg
Date Inj'd : 5/14/2024 4:45 pm Instrument : PEST 20
Sample : pem20240514i-01,42e,,pp 11Quant Date : 5/17/2024 9:53 am

Compound #59: 4,4'-DDT #2



Original Peak Response = 292593345



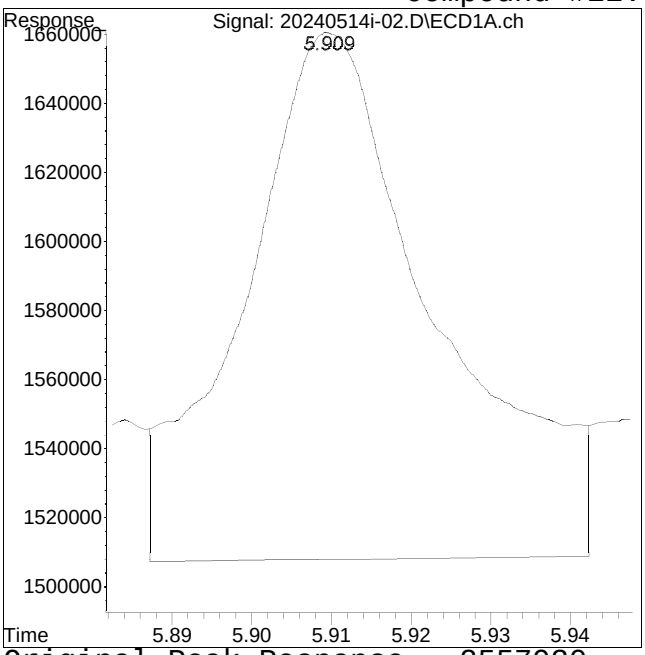
Manual Peak Response = 292329205 M4
M4 = Poor automated baseline construction.

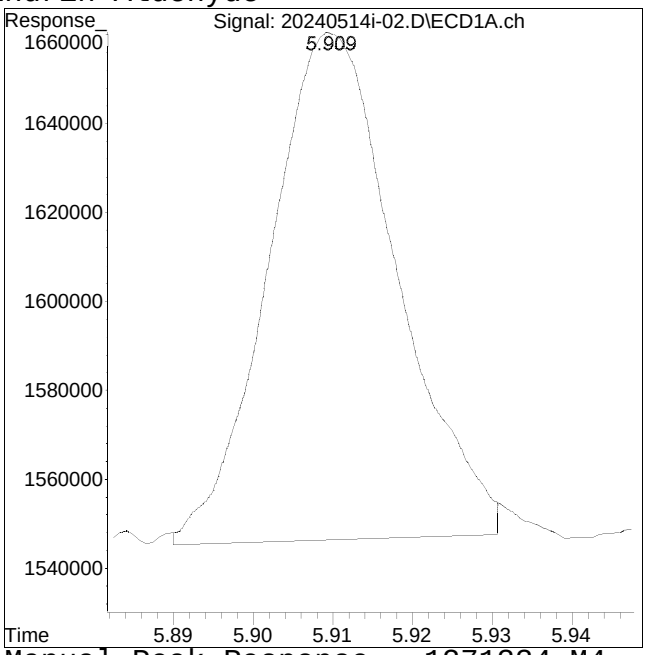
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-02.D
Date Inj'd : 5/14/2024 4:45 pm
Sample : pem20240514i-01,42e,,pp 11

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/17/2024 9:53 am

Compound #22: Endrin Aldehyde



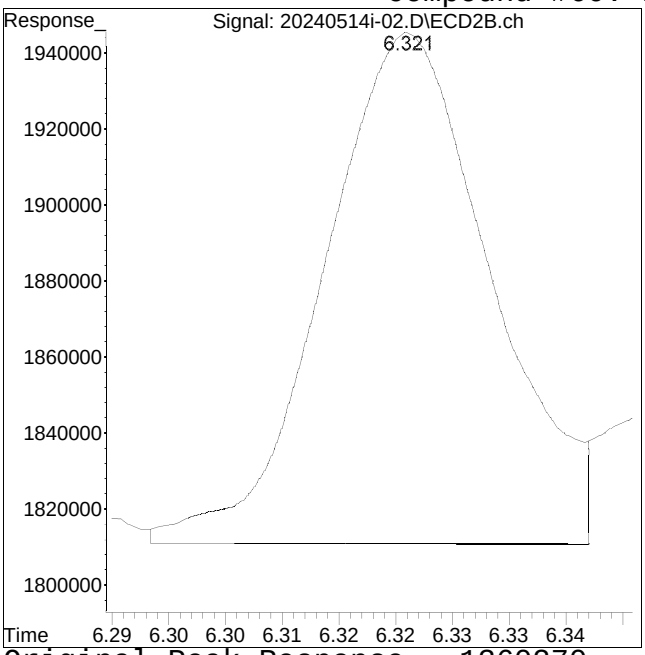


Original Peak Response = 2557930 Manual Peak Response = 1271334 M4
M4 = Poor automated baseline construction.

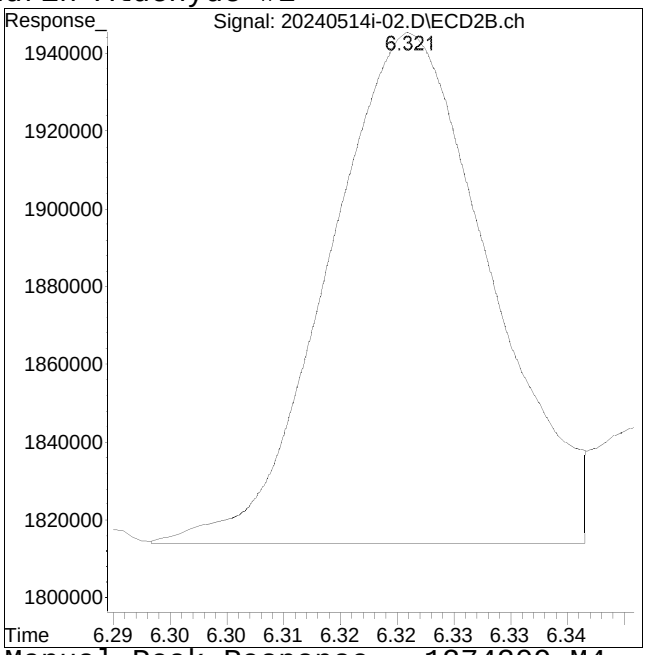
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-02.D
Date Inj'd : 5/14/2024 4:45 pm
Sample : pem20240514i-01,42e,,pp 11
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/17/2024 9:53 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 1360270



Manual Peak Response = 1274209 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 04:57 pm
Operator : pest20:peg
Sample : il1pest,42e,,pp 11585 L0.0005 (Sig #1); il1pest,42e,,pp 11572 L0.0005 (Sig #2)
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 10:50:38 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 10:50:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.933	1.971	51053701	68138921	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	3.044	3.390	1525242	2371772	0.592M4	0.658M4
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 04:57 pm
Operator : pest20:peg
Sample : il1pest,42e,,pp 11585 L0.0005 (Sig #1); il1pest,42e,,pp 11572 L0.0005 (Sig #2)
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 10:50:38 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 10:50:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

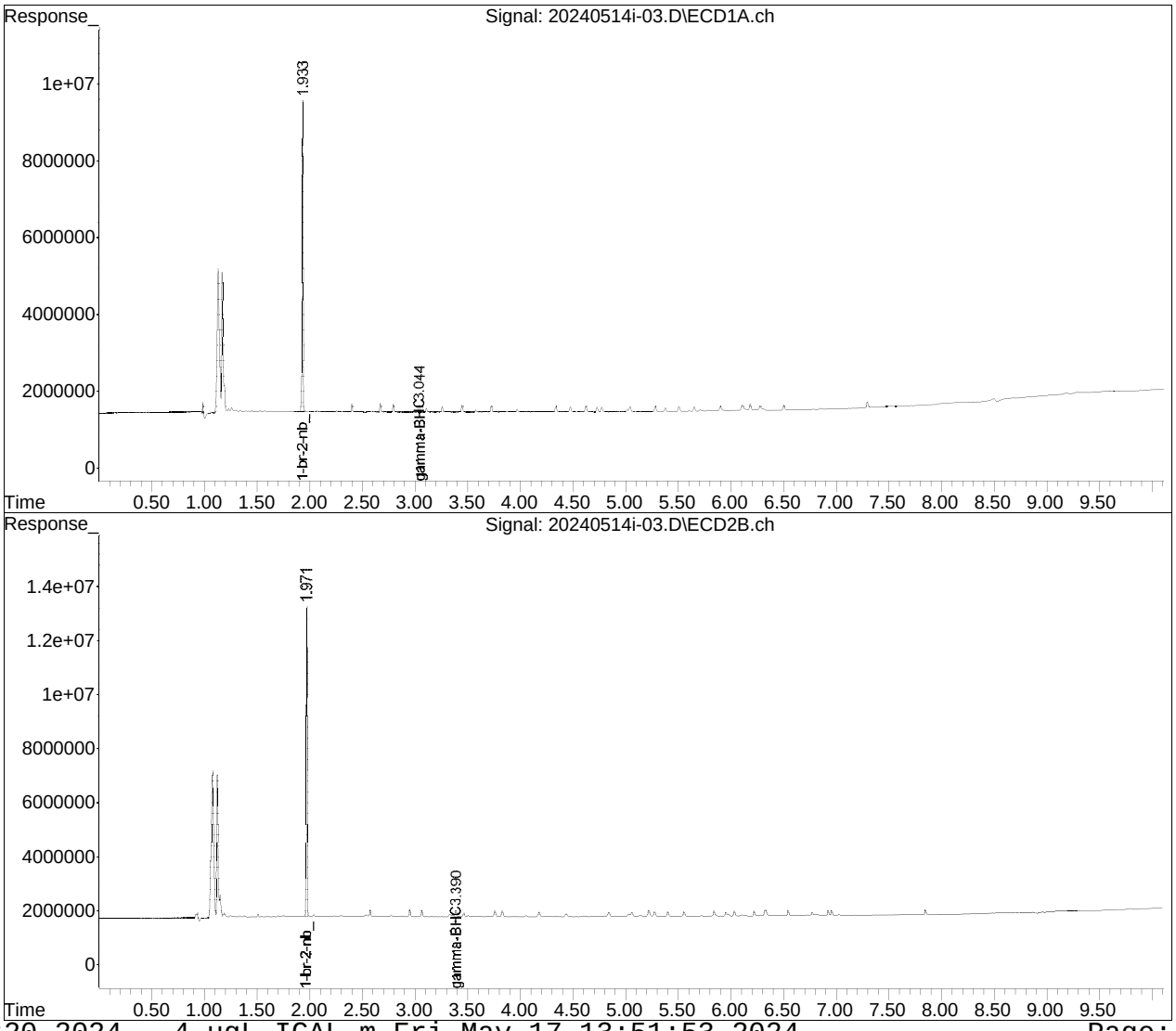
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 04:57 pm
Operator : pest20:peg
Sample : il1pest,42e,,pp 11585 L0.0005 (Sig #1); il1pest,42e,,pp 11572 L0.0
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 10:50:38 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 10:50:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

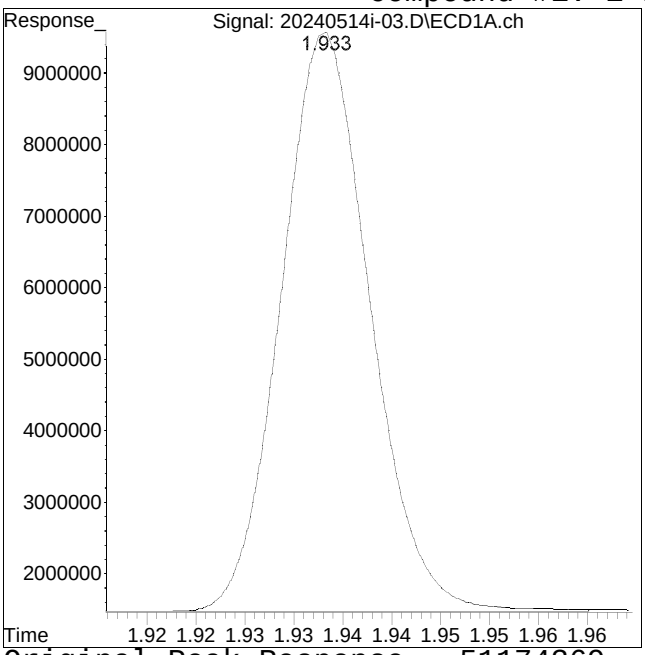


Manual Integration Report

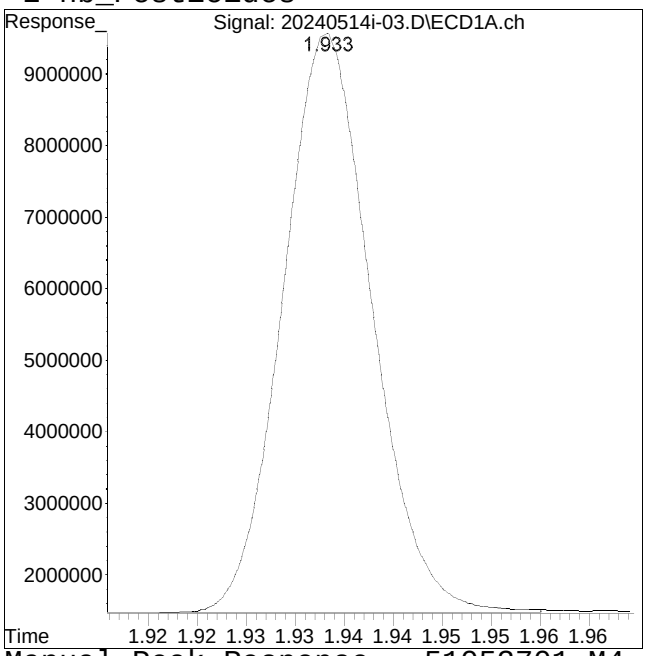
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-03.D
Date Inj'd : 5/14/2024 4:57 pm
Sample : il1pest,42e,,pp 11585 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:50 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 51174369



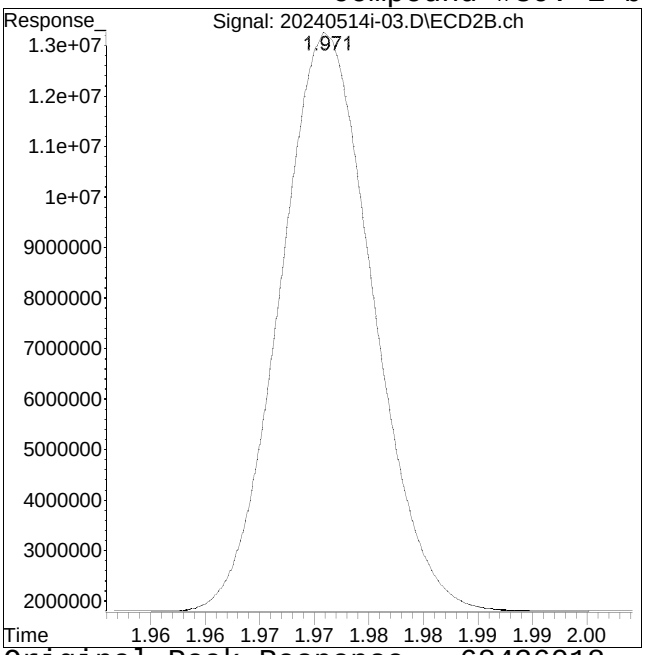
Manual Peak Response = 51053701 M4

M4 = Poor automated baseline construction.

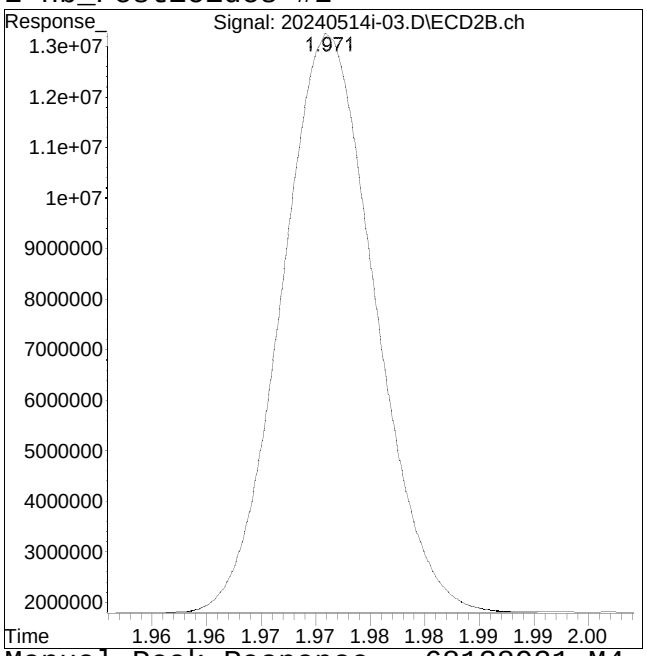
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-03.D
Date Inj'd : 5/14/2024 4:57 pm
Sample : il1pest,42e,,pp 11585 L0.0
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:50 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 68436018



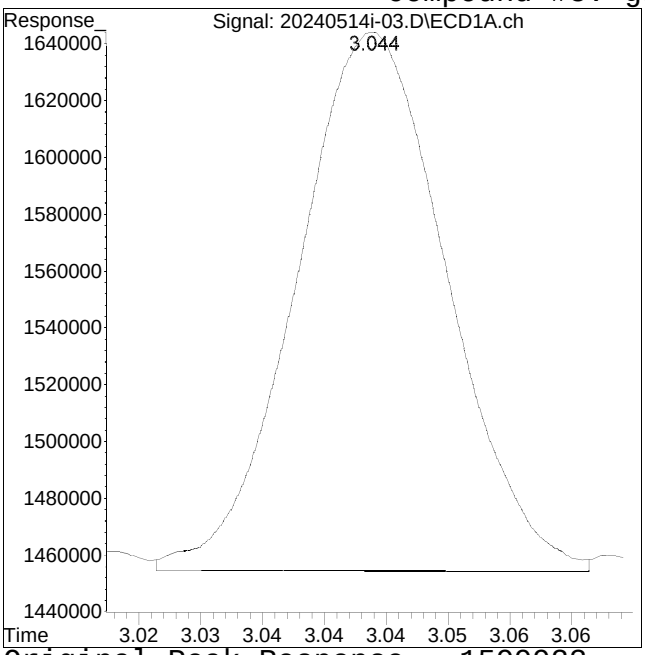
Manual Peak Response = 68138921 M4

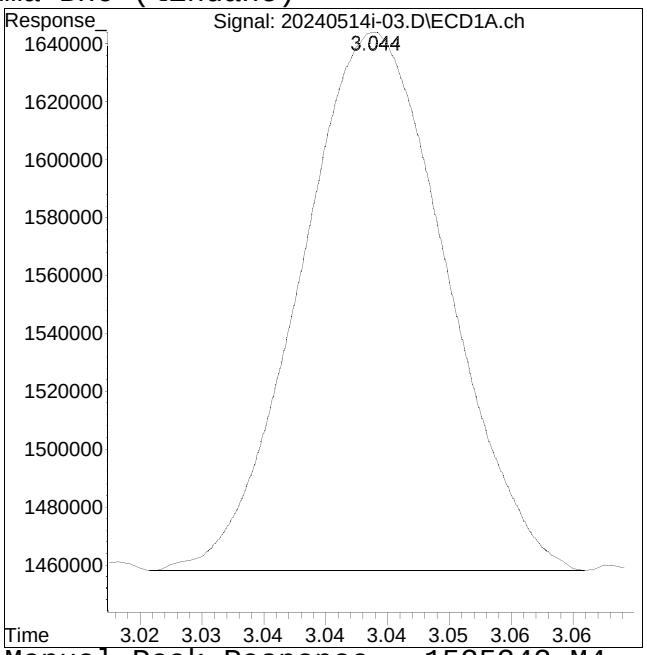
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-03.D Operator : pest20:peg
Date Inj'd : 5/14/2024 4:57 pm Instrument : PEST 20
Sample : il1pest,42e,,pp 11585 L0.0Quant Date : 5/16/2024 10:50 am

Compound #5: gamma-BHC (lindane)



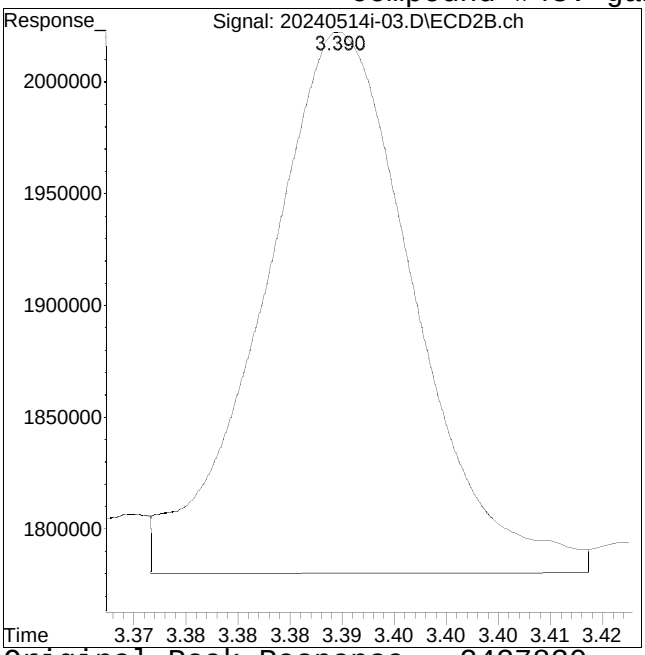


Original Peak Response = 1599923 Manual Peak Response = 1525242 M4
M4 = Poor automated baseline construction.

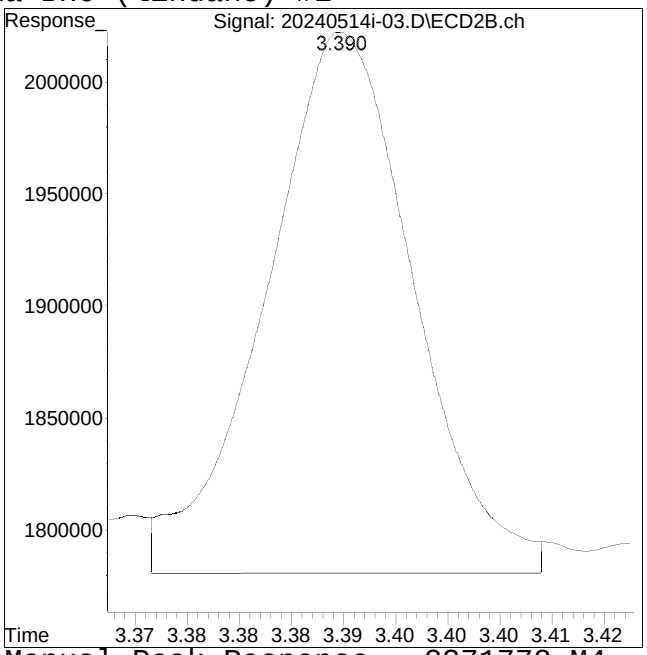
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-03.D Operator : pest20:peg
Date Inj'd : 5/14/2024 4:57 pm Instrument : PEST 20
Sample : il1pest,42e,,pp 11585 L0.0Quant Date : 5/16/2024 10:50 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 2427830



Manual Peak Response = 2371772 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 05:10 pm
Operator : pest20:peg
Sample : il2pest,42e,,pp 11584 L0.001 (Sig #1); il2pest,42e,,pp 11571 L0.00
1 (Sig #2)
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 13:19:42 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 13:19:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.933	1.971	51252399	67914008	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.406	2.575	2858387	3453631	1.212M4	1.146M4
	Spiked Amount	50.000	Range 30 - 150		Recovery =	2.42%#	2.29%#
27) s	Decachlorobi	7.295	7.843	3018723	3565549	1.242M4	1.264M4
	Spiked Amount	50.000	Range 30 - 150		Recovery =	2.48%#	2.53%#
	Target Compounds						
3)	Hexachlorobe	2.675	2.952	3244696	4163778	1.262M4	1.265M4
4)	alpha-BHC	2.798	3.066	3032777	3946918	1.080M4	1.061M4
5)	gamma-BHC (l	3.043	3.390	2971644	3914989	1.106	1.079M4
6)	beta-BHC	3.112	3.464	1705088	2243618	1.245M4	1.250M4
7)	delta-BHC	3.262	3.760	2338905	3664184	1.008M4	1.067M4
8)	Heptachlor	3.451	3.830	3272896	4069886	1.212	1.189M4
9)	Aldrin	3.728	4.178	3047565	3563574	1.147M4	1.107
10)	Alachlor	3.870	4.055	384384	592648	1.077M4	1.160M4
11)	Chlorpyrifos	3.974	4.436	1411106	2282921	1.174M4	1.268M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 05:10 pm
Operator : pest20:peg
Sample : il2pest,42e,,pp 11584 L0.001 (Sig #1); il2pest,42e,,pp 11571 L0.001 (Sig #2)
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 13:19:42 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 13:19:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	Heptachlor E	4.340	4.839	3134063	3679876	1.207M4	1.130M4
13)	gamma-Chlord	4.478	5.057	2835994	3378057	1.195M4	1.174M4
14)	alpha-Chlord	4.625	5.217	3309500	3697001	1.221M4	1.156M4
15)	4,4'-DDE	4.731	5.401	2860460	3423861	1.150M4	1.103M4
16)	Endosulfan I	4.775	5.275	2883933	3478280	1.163M4	1.166M4
17)	Dieldrin	5.043	5.554	2869084	3473039	1.141M4	1.139M4
18)	Endrin	5.283	5.840	2962914	3517217	1.177M4	1.137M4
19)	4,4'-DDD	5.380	5.951	1801275	2757960	1.016M4	1.101M4
20)	Endosulfan I	5.508	6.031	2448512	3222387	1.144M4	1.146M4
21)	4,4'-DDT	5.653	6.220	2120997	2989996	1.106M4	1.095M4
22)	Endrin Aldeh	5.902	6.319	1759955	2662440	1.056M4	1.140M4
23)	Methoxychlor	6.112	6.771	1042204	1840782	1.059M4	1.161M4
24)	Mirex	6.185	6.923	2862074	3352489	1.307M4	1.295M4
25)	Endosulfan S	6.279	6.543	1782179	3089556	1.031M4	1.165M4
26)	Endrin Keton	6.503	6.955	2190215	3524370	1.105M4	1.158M4
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 05:10 pm
Operator : pest20:peg
Sample : il2pest,42e,,pp 11584 L0.001 (Sig #1); il2pest,42e,,pp 11571 L0.001 (Sig #2)
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 13:19:42 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 13:19:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

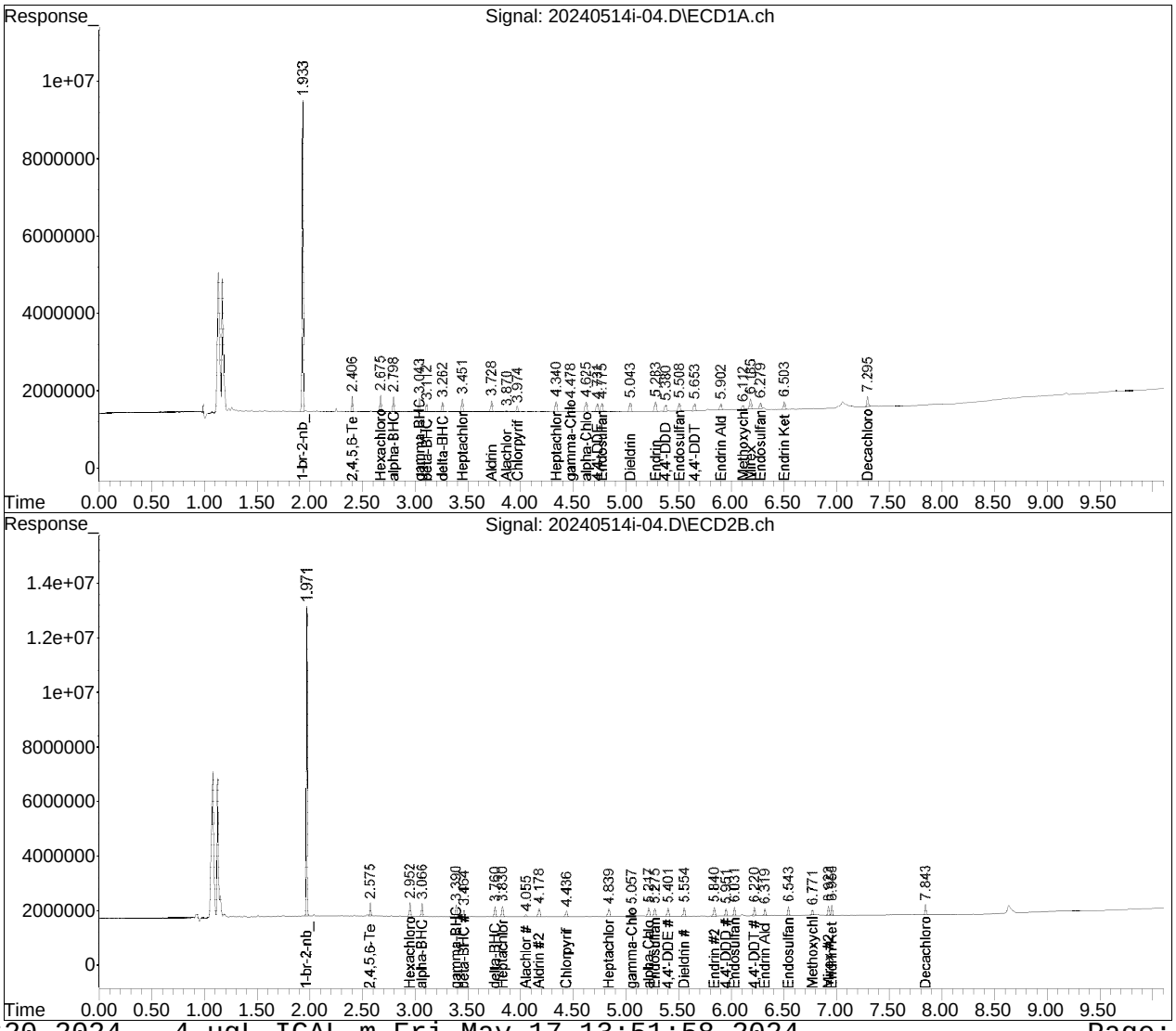
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 05:10 pm
Operator : pest20:peg
Sample : il2pest,42e,,pp 11584 L0.001 (Sig #1); il2pest,42e,,pp 11571 L0.00
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 13:19:42 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 13:19:32 2024
Response via : Initial Calibration
Integrator: ChemStation

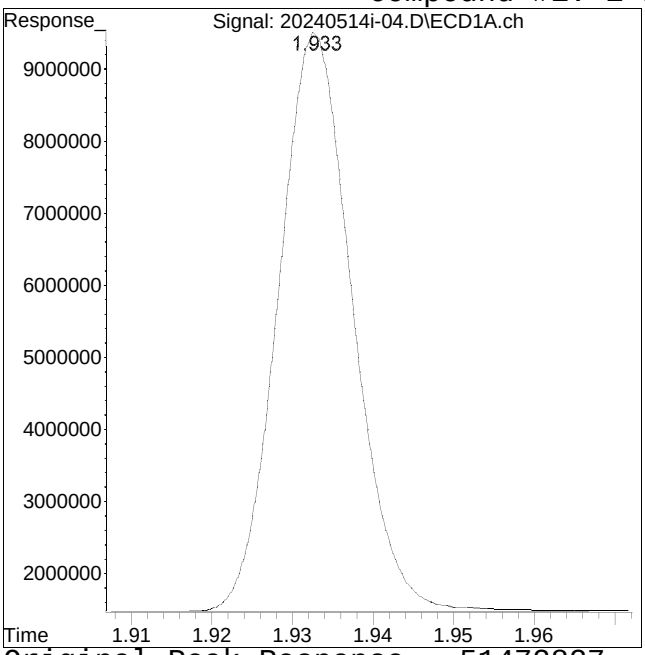
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



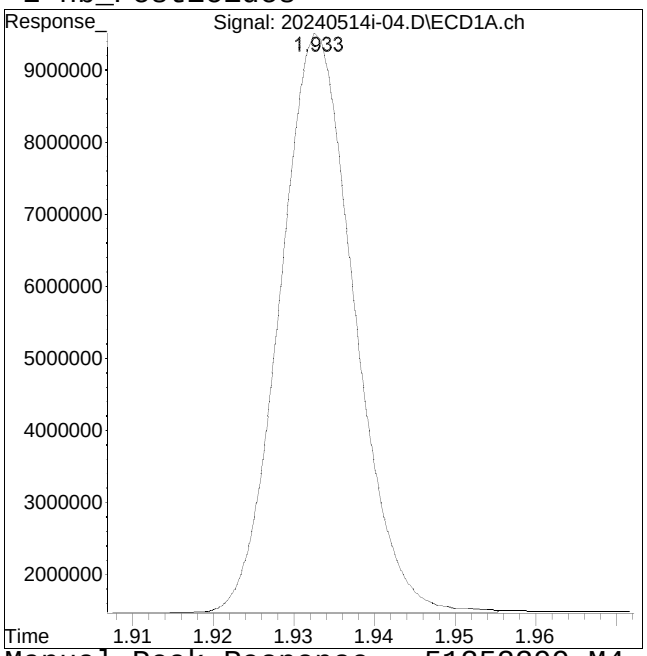
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 51472827



Manual Peak Response = 51252399 M4

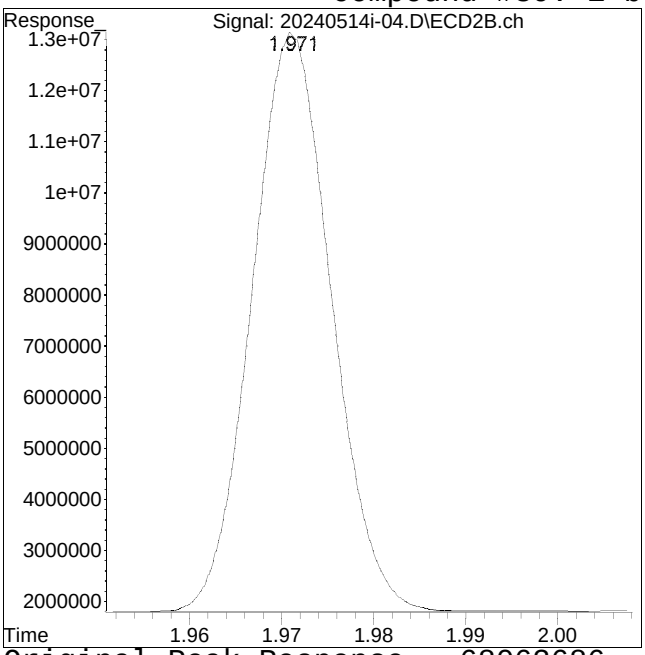
M4 = Poor automated baseline construction.

Manual Integration Report

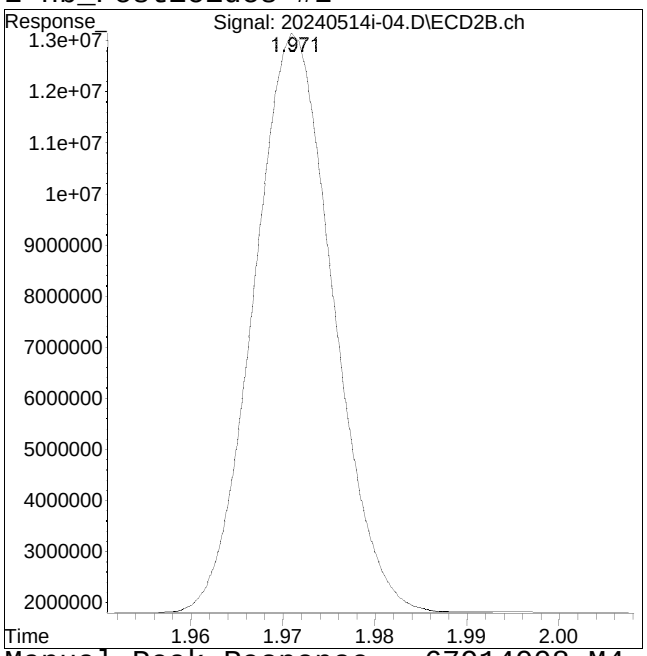
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-04.D
Date Inj'd : 5/14/2024 5:10 pm
Sample : il2pest,42e,,pp 11584 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 1:19 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 68063686



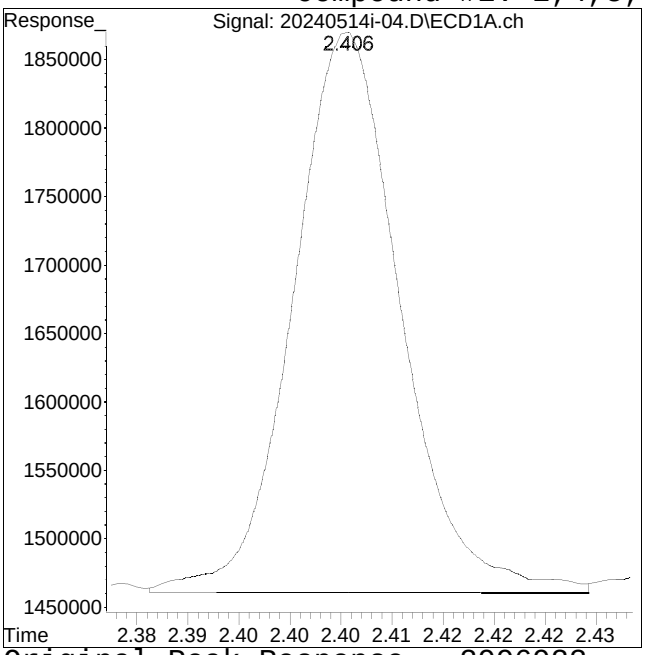
Manual Peak Response = 67914008 M4

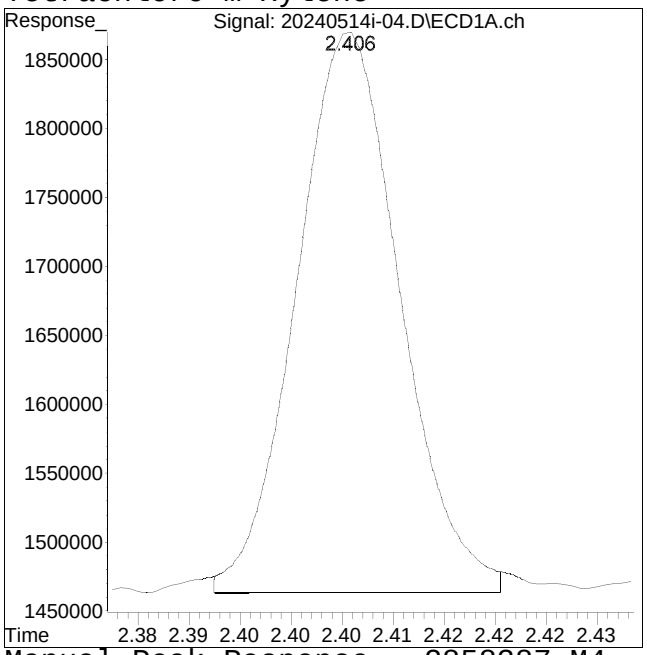
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



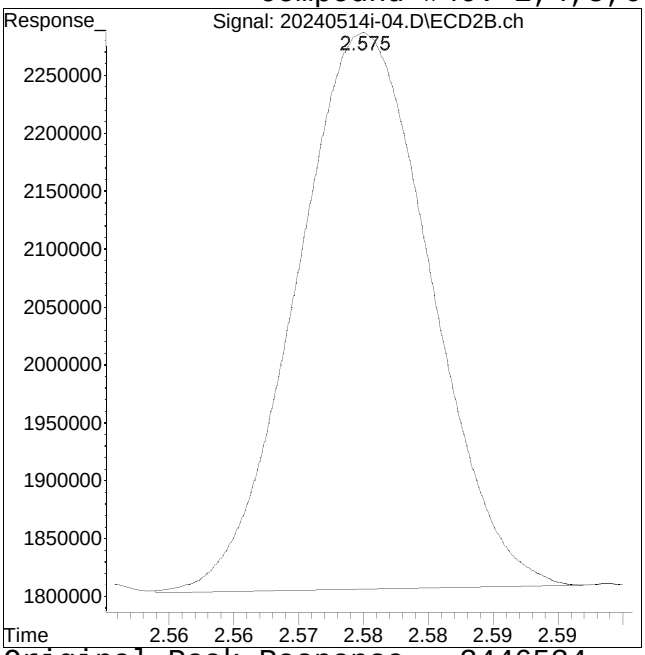


Original Peak Response = 2996923 Manual Peak Response = 2858387 M4
M4 = Poor automated baseline construction.

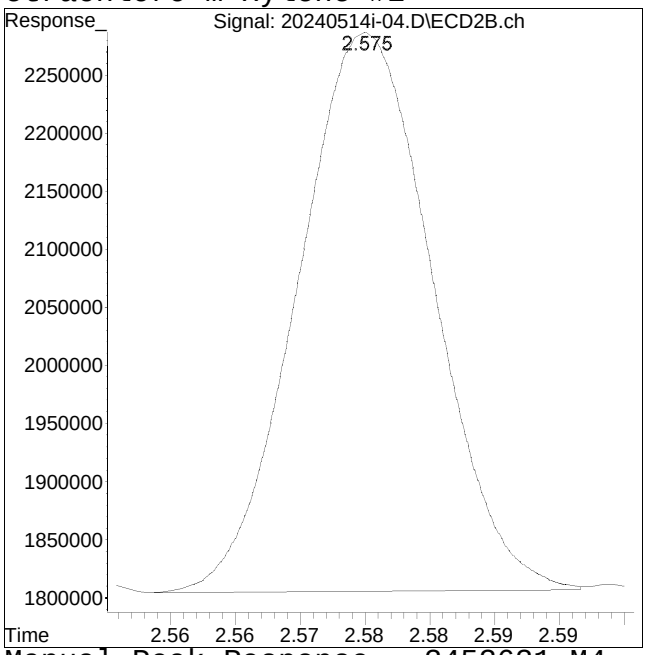
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 3446534



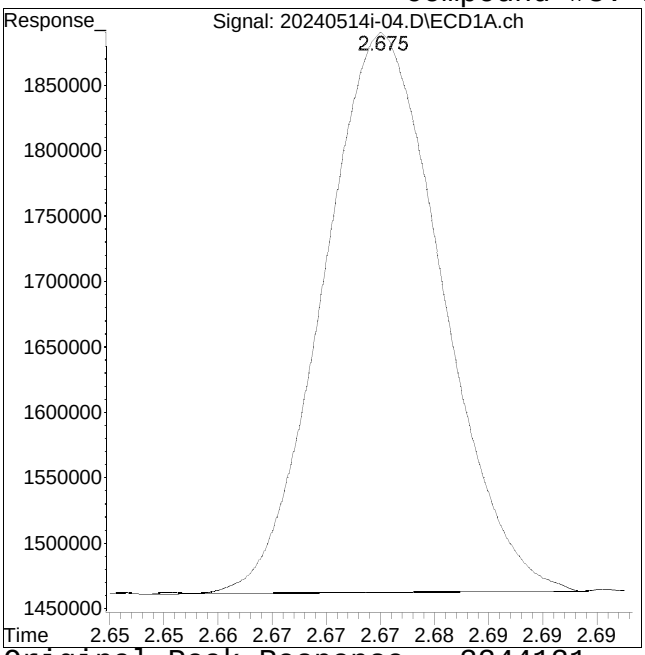
Manual Peak Response = 3453631 M4

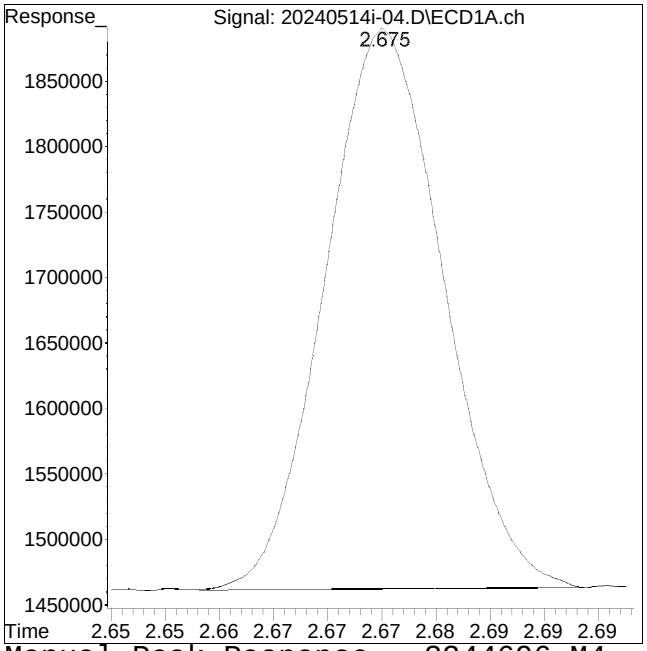
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #3: Hexachlorobenzene





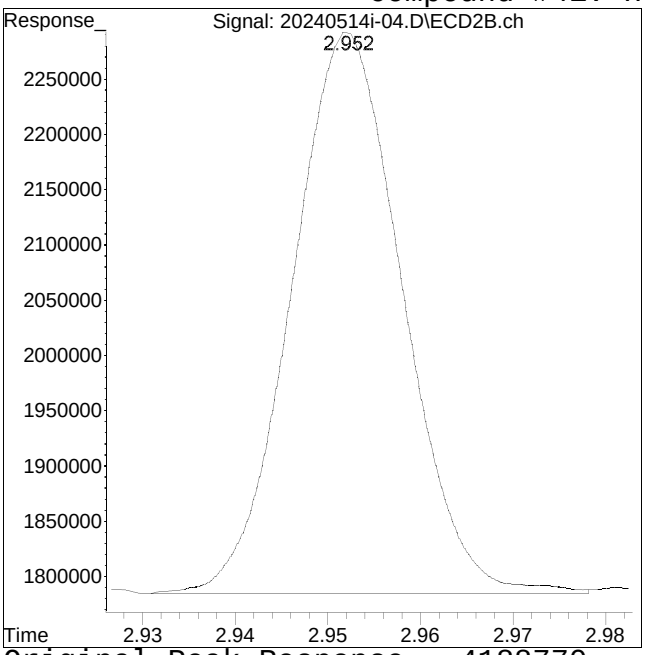
Original Peak Response = 3244121 Manual Peak Response = 3244696 M4
M4 = Poor automated baseline construction.

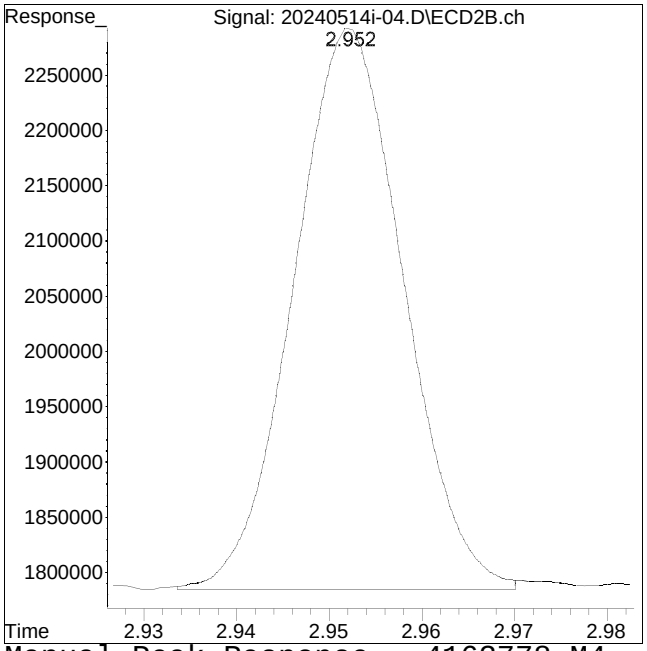
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-04.D
Date Inj'd : 5/14/2024 5:10 pm
Sample : il2pest,42e,,pp 11584 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 1:19 pm

Compound #41: Hexachlorobenzene #2



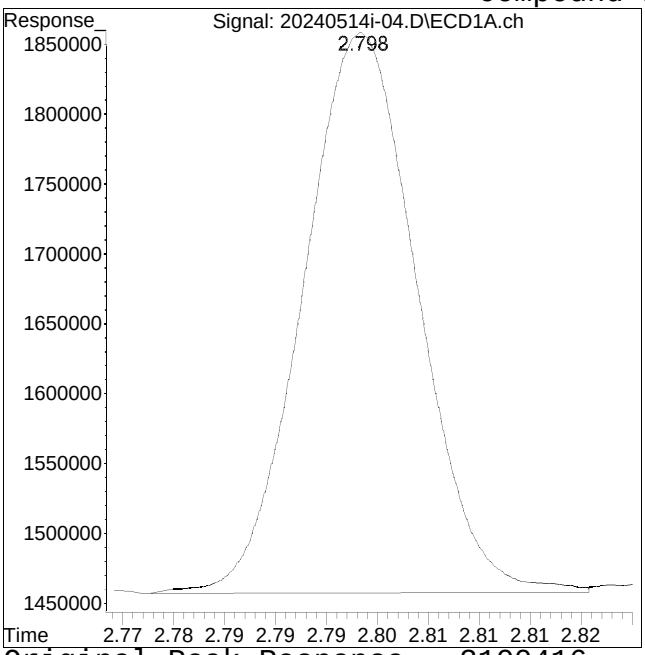


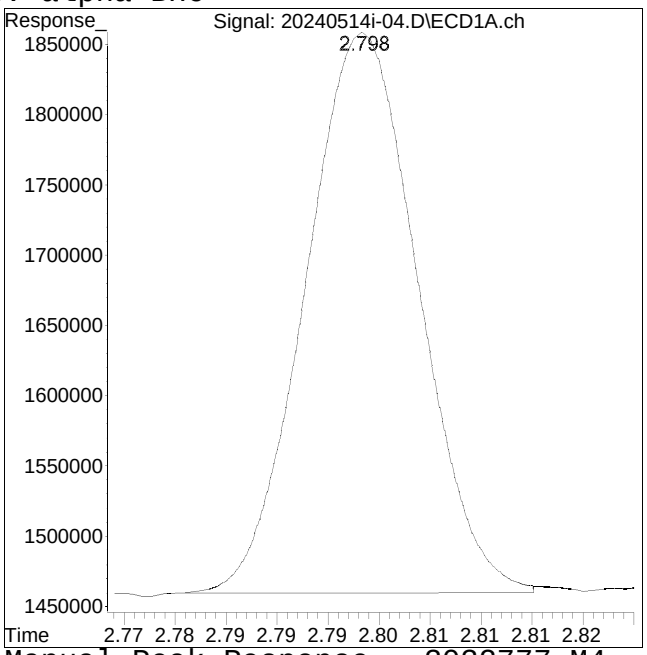
Original Peak Response = 4188770 Manual Peak Response = 4163778 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #4: alpha-BHC



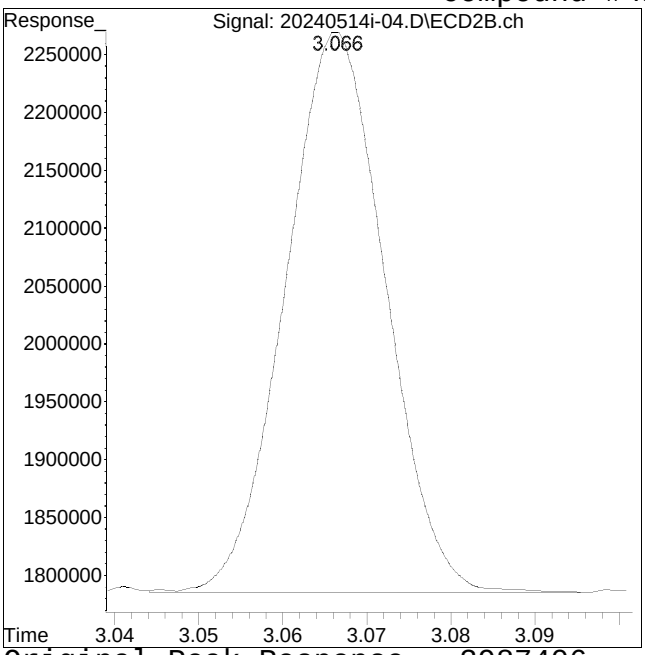


Original Peak Response = 3100416 Manual Peak Response = 3032777 M4
M4 = Poor automated baseline construction.

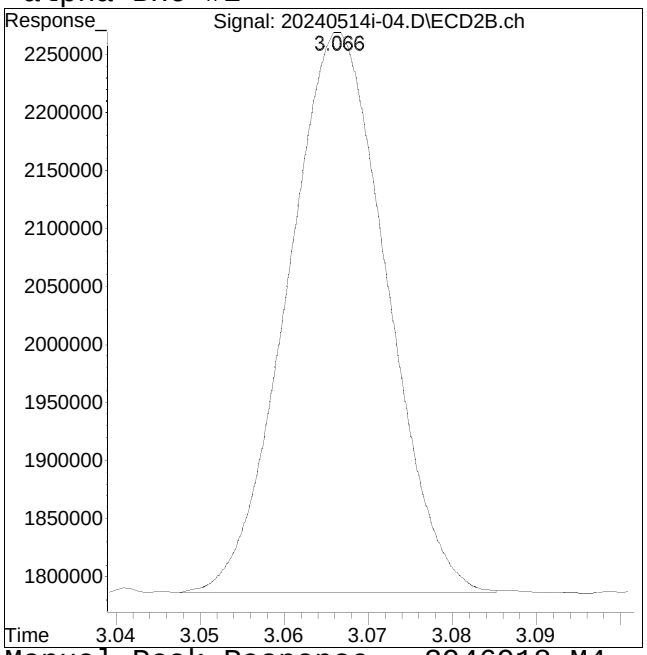
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #42: alpha-BHC #2



Original Peak Response = 3987406



Manual Peak Response = 3946918 M4

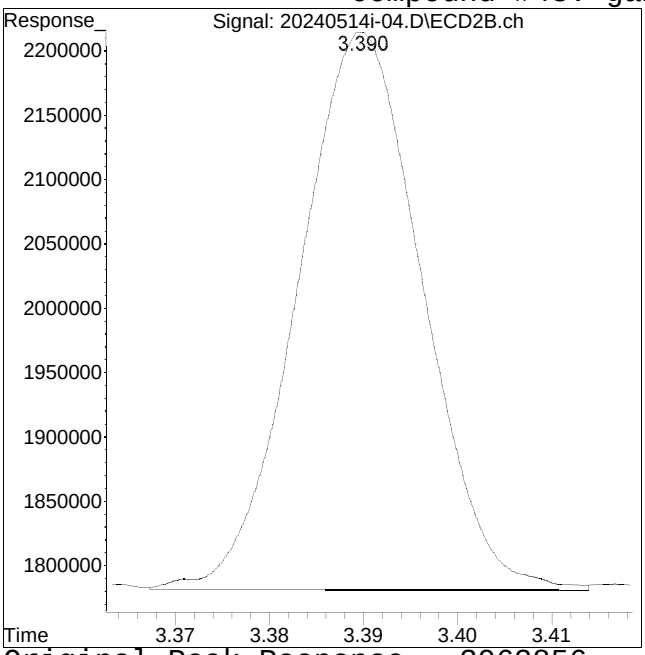
M4 = Poor automated baseline construction.

Manual Integration Report

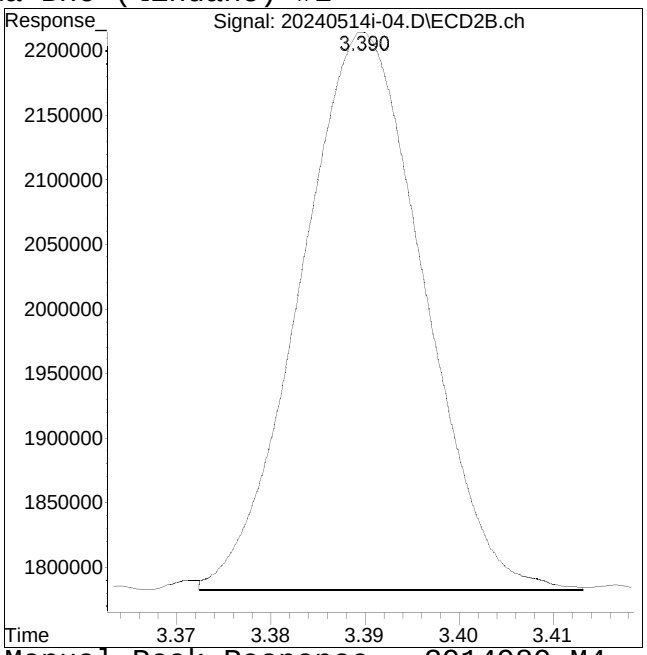
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-04.D
Date Inj'd : 5/14/2024 5:10 pm
Sample : il2pest,42e,,pp 11584 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 1:19 pm

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 3963856



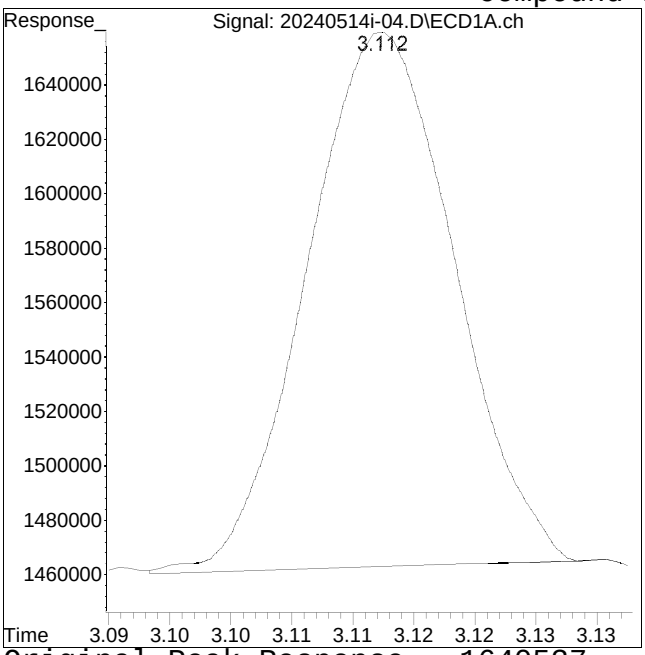
Manual Peak Response = 3914989 M4

M4 = Poor automated baseline construction.

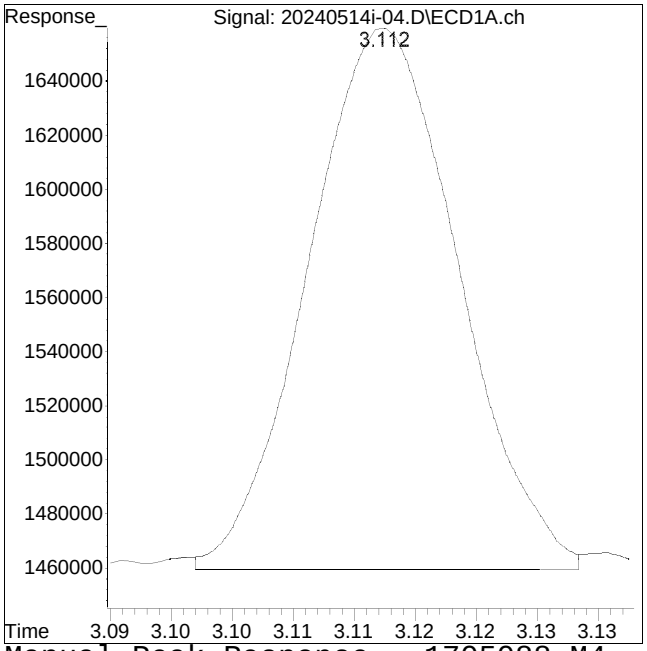
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #6: beta-BHC



Original Peak Response = 1640537



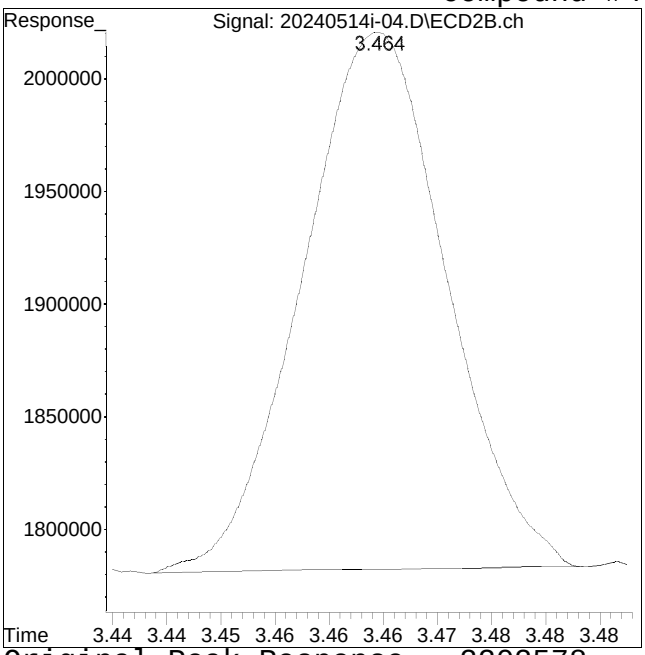
Manual Peak Response = 1705088 M4

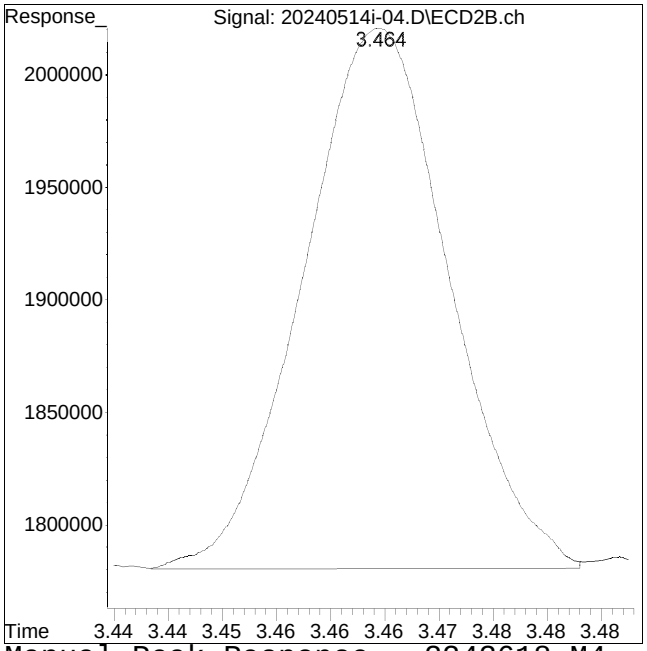
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #44: beta-BHC #2



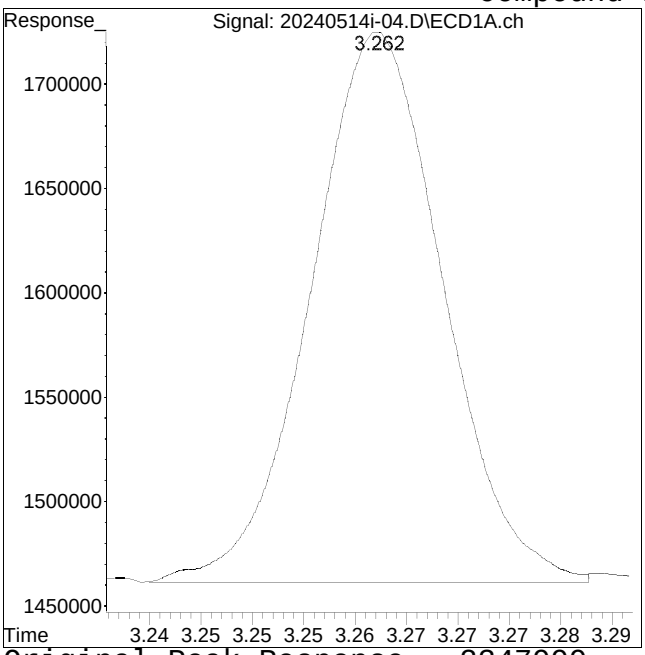


Original Peak Response = 2202578 Manual Peak Response = 2243618 M4
M4 = Poor automated baseline construction.

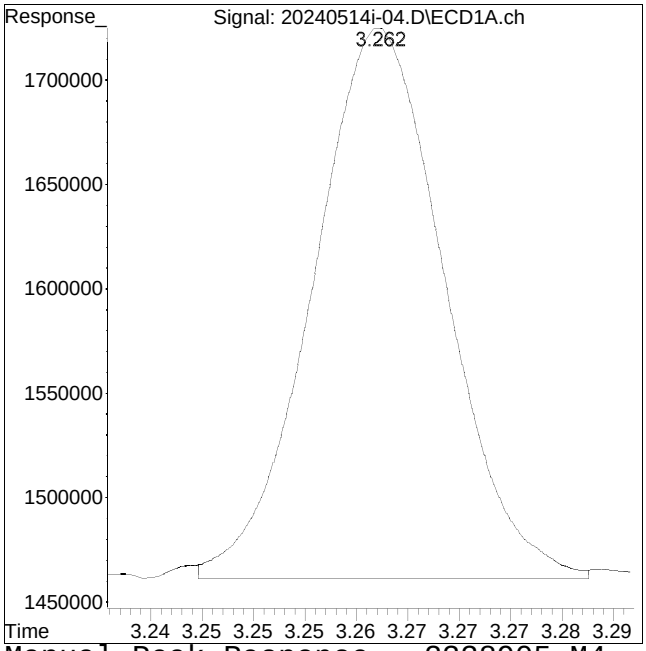
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #7: delta-BHC



Original Peak Response = 2347999



Manual Peak Response = 2338905 M4

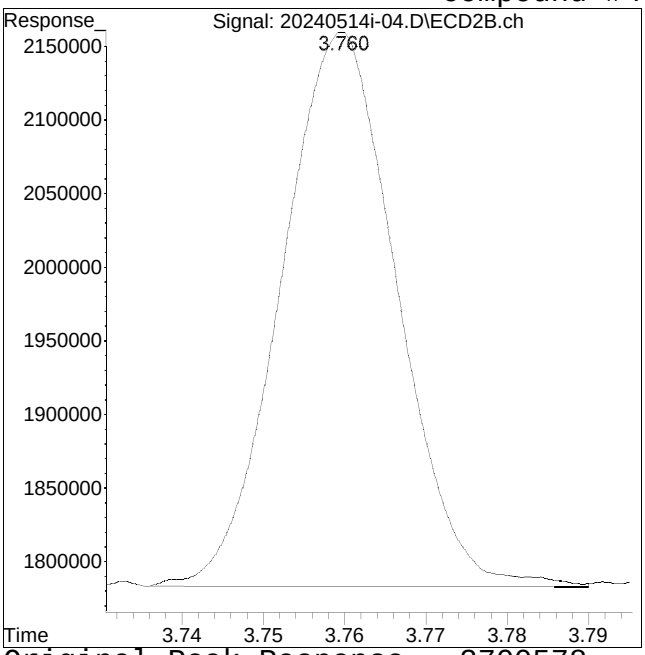
M4 = Poor automated baseline construction.

Manual Integration Report

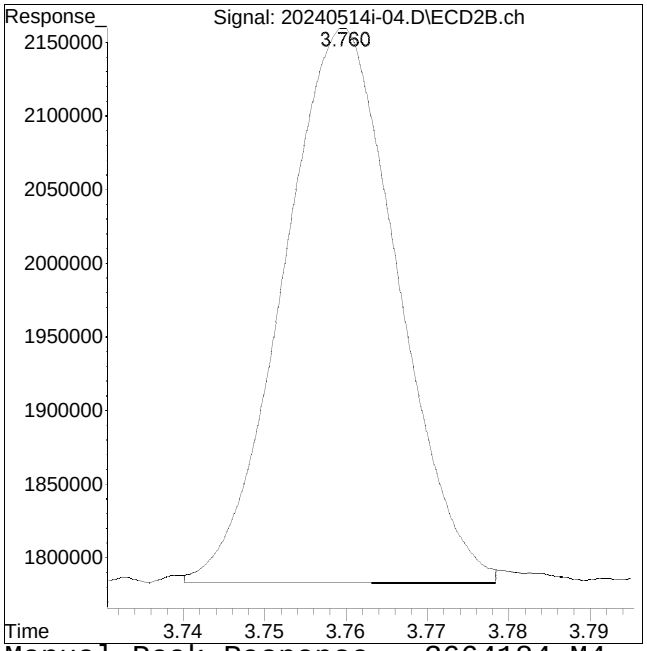
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-04.D
Date Inj'd : 5/14/2024 5:10 pm
Sample : il2pest,42e,,pp 11584 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 1:19 pm

Compound #45: delta-BHC #2



Original Peak Response = 3700578



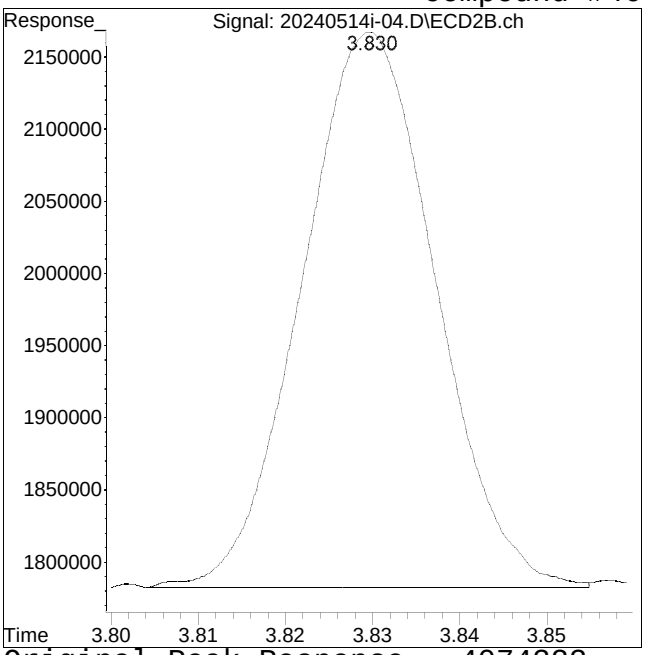
Manual Peak Response = 3664184 M4

M4 = Poor automated baseline construction.

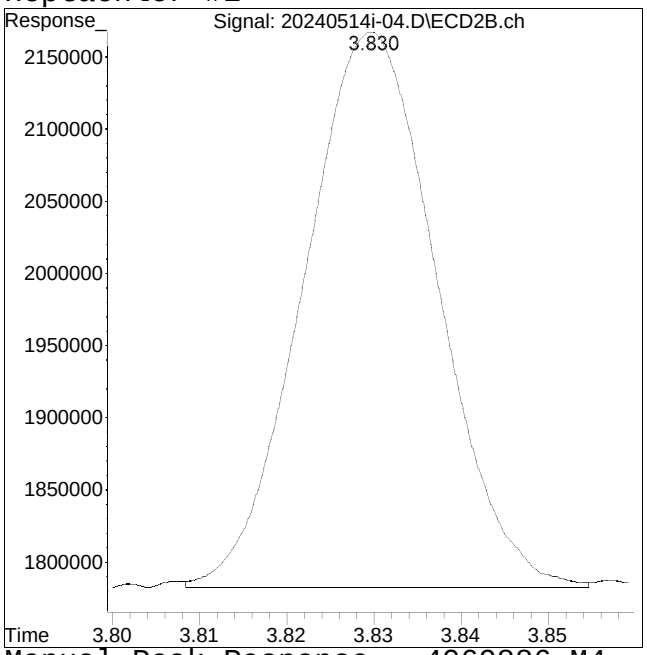
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #46: Heptachlor #2



Original Peak Response = 4074323



Manual Peak Response = 4069886 M4

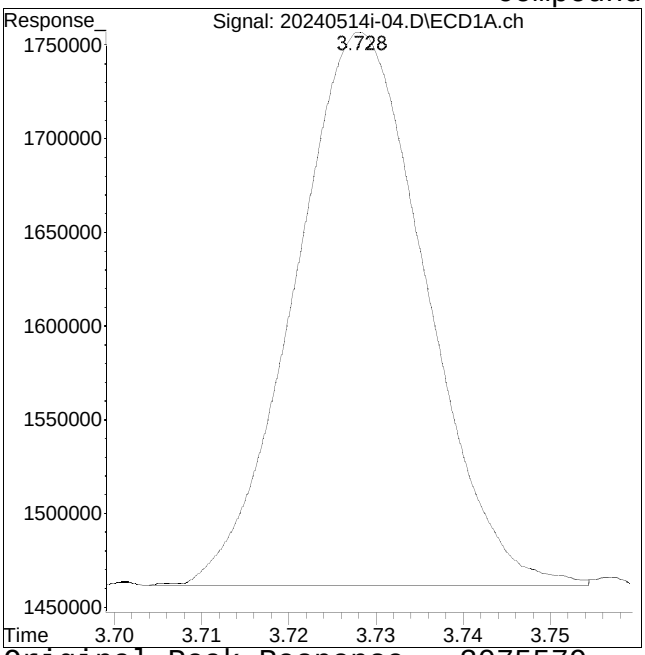
M4 = Poor automated baseline construction.

Manual Integration Report

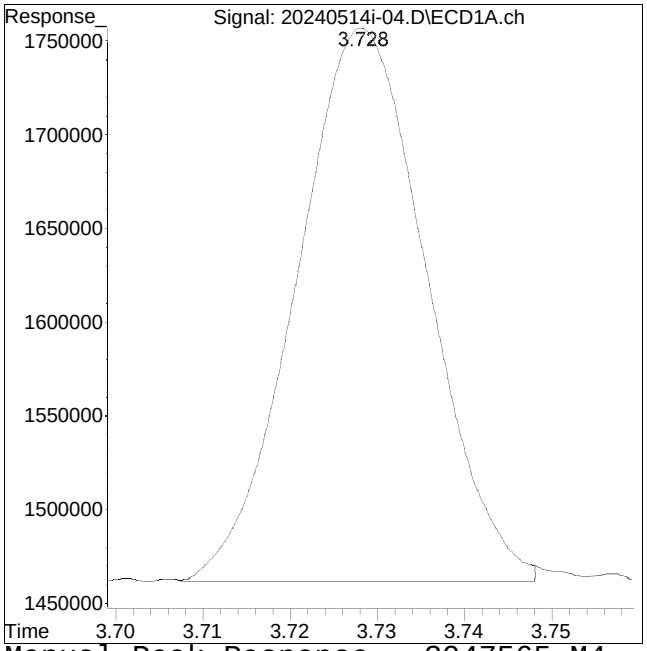
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-04.D
Date Inj'd : 5/14/2024 5:10 pm
Sample : il2pest,42e,,pp 11584 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 1:19 pm

Compound #9: Aldrin



Original Peak Response = 3075579



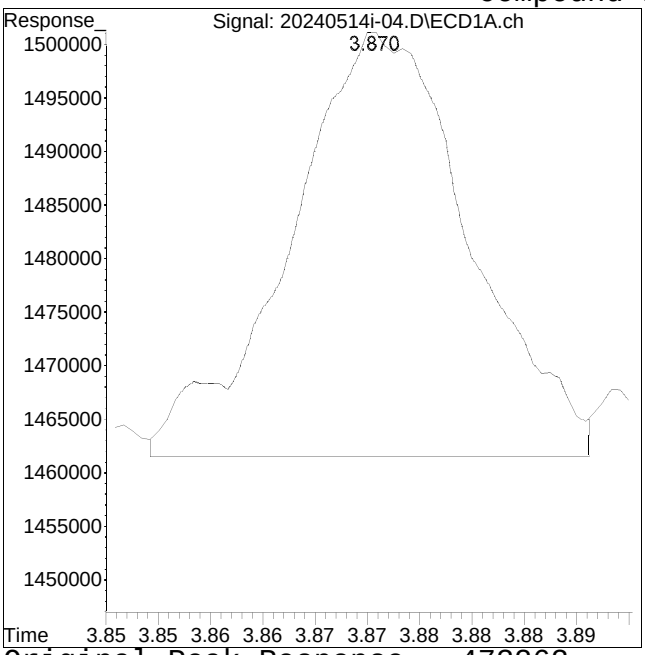
Manual Peak Response = 3047565 M4

M4 = Poor automated baseline construction.

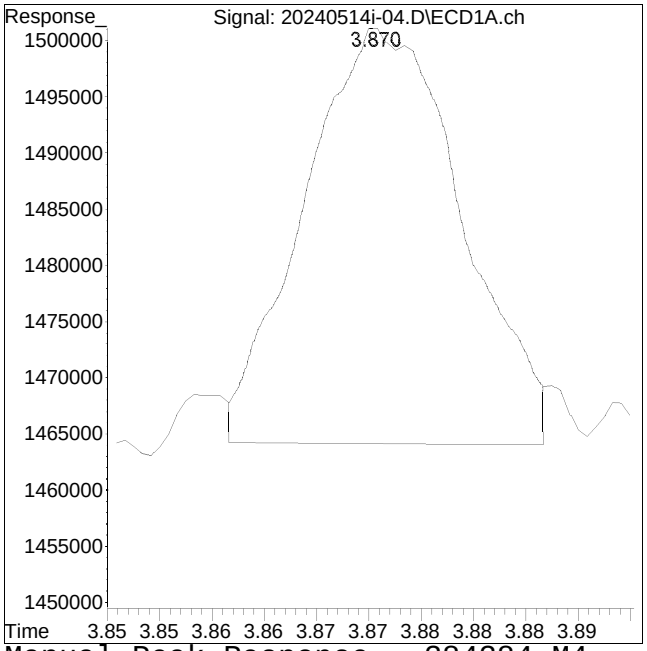
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #10: Alachlor



Original Peak Response = 473262



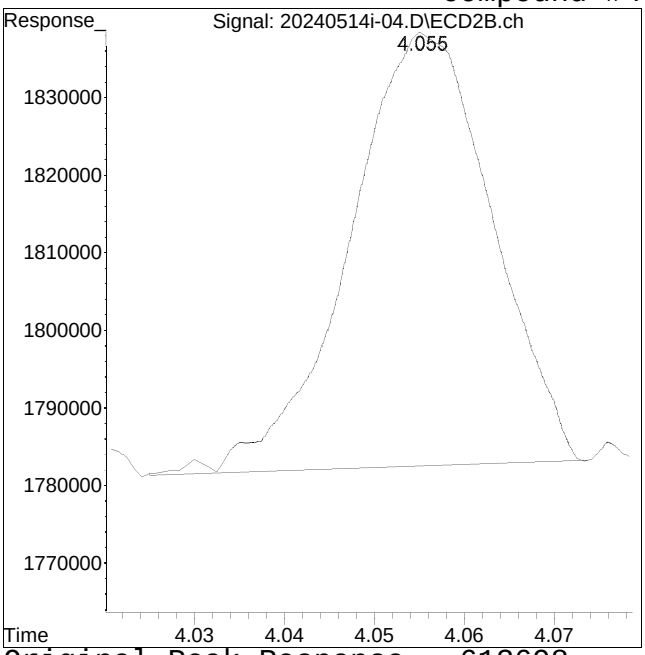
Manual Peak Response = 384384 M4

M4 = Poor automated baseline construction.

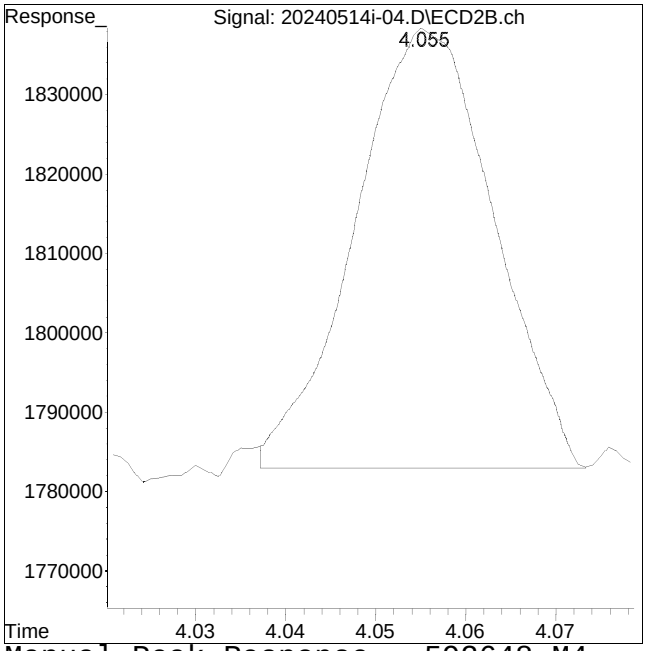
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #48: Alachlor #2



Original Peak Response = 613698



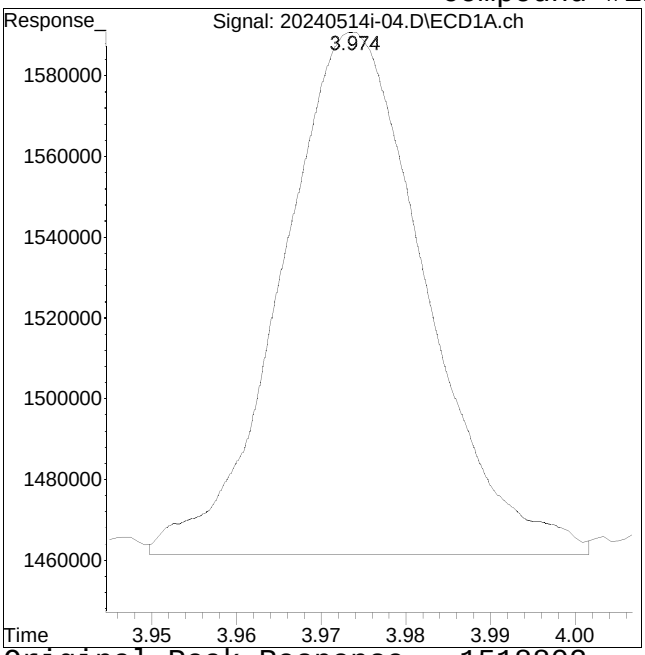
Manual Peak Response = 592648 M4

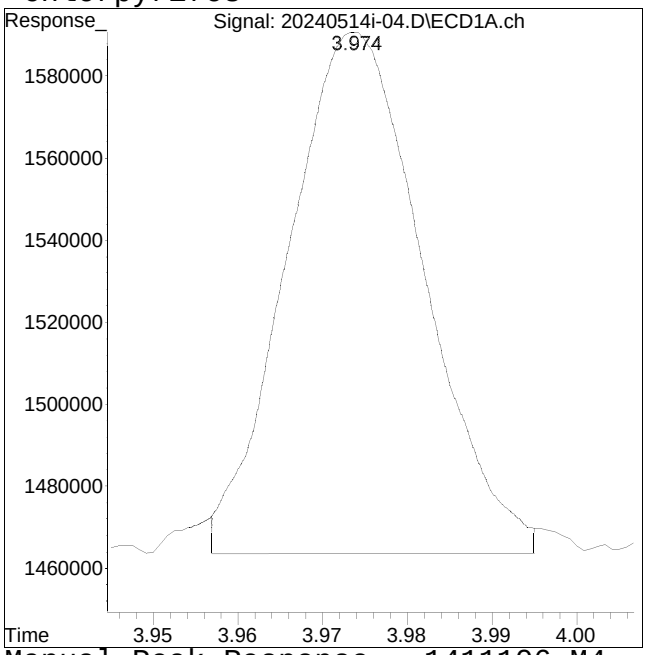
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #11: Chlorpyrifos





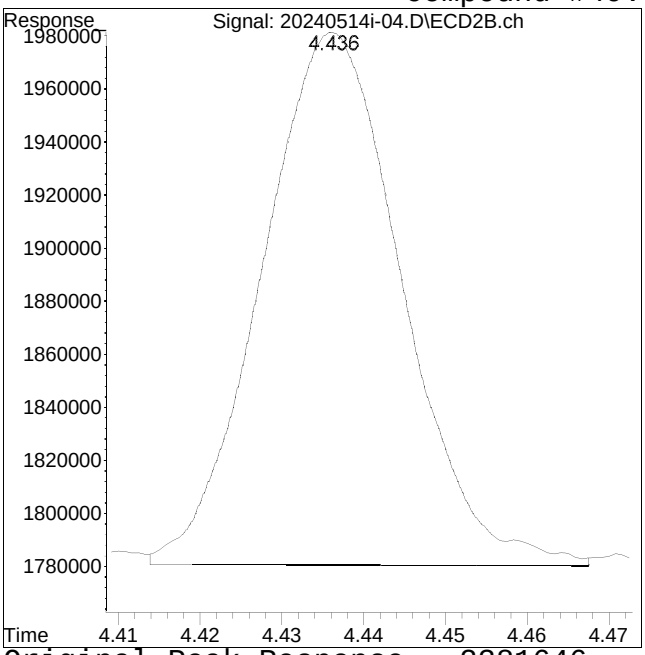
Original Peak Response = 1518802 Manual Peak Response = 1411106 M4
M4 = Poor automated baseline construction.

Manual Integration Report

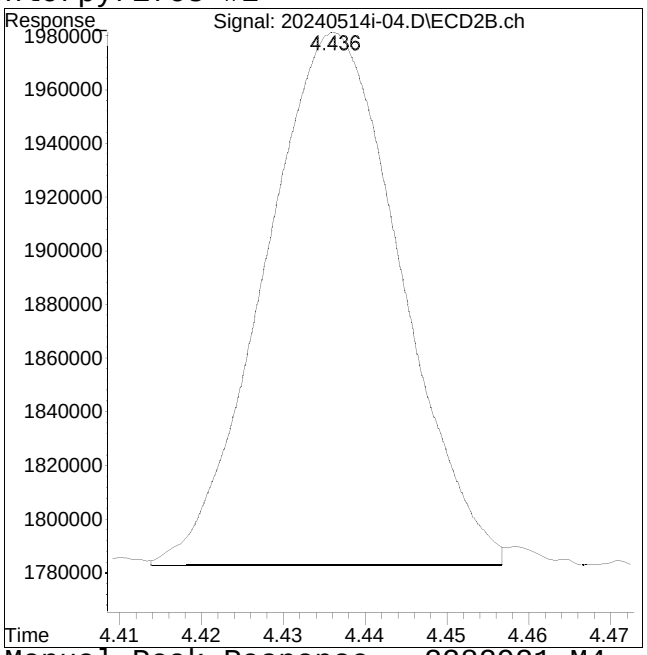
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-04.D
Date Inj'd : 5/14/2024 5:10 pm
Sample : il2pest,42e,,pp 11584 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 1:19 pm

Compound #49: Chlorpyrifos #2



Original Peak Response = 2381646



Manual Peak Response = 2282921 M4

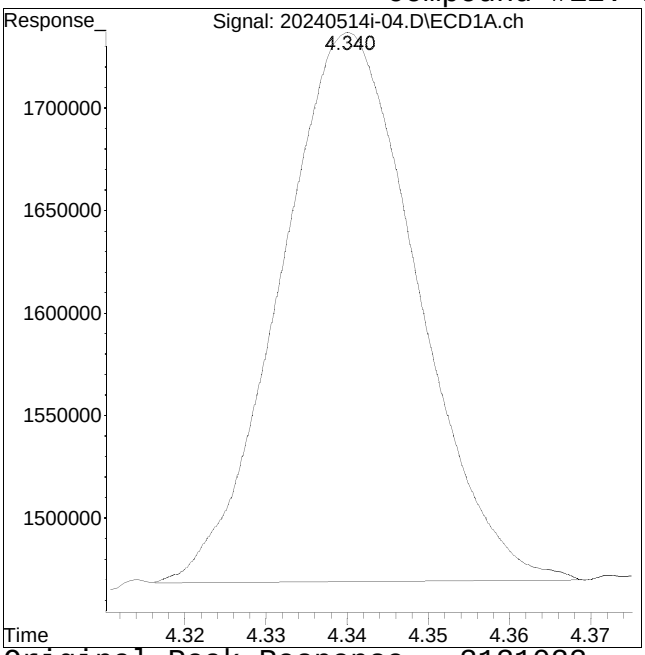
M4 = Poor automated baseline construction.

Manual Integration Report

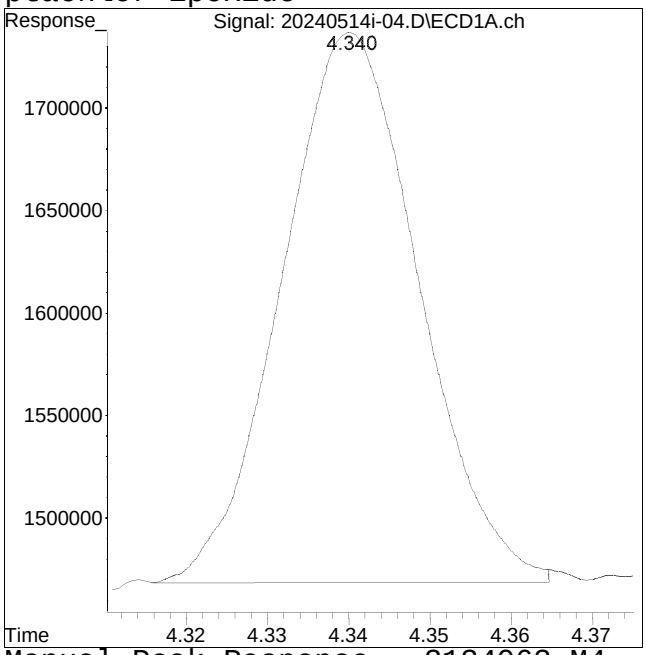
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-04.D
Date Inj'd : 5/14/2024 5:10 pm
Sample : il2pest,42e,,pp 11584 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 1:19 pm

Compound #12: Heptachlor Epoxide



Original Peak Response = 3131023



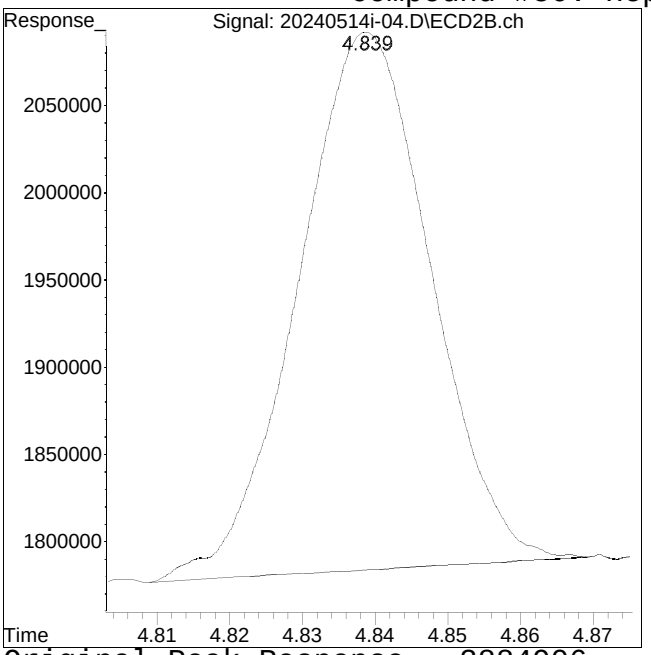
Manual Peak Response = 3134063 M4

M4 = Poor automated baseline construction.

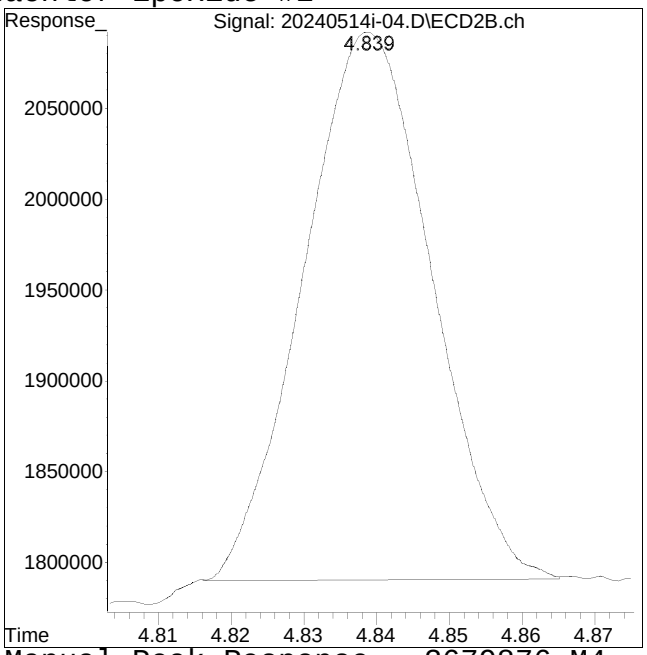
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 3884906



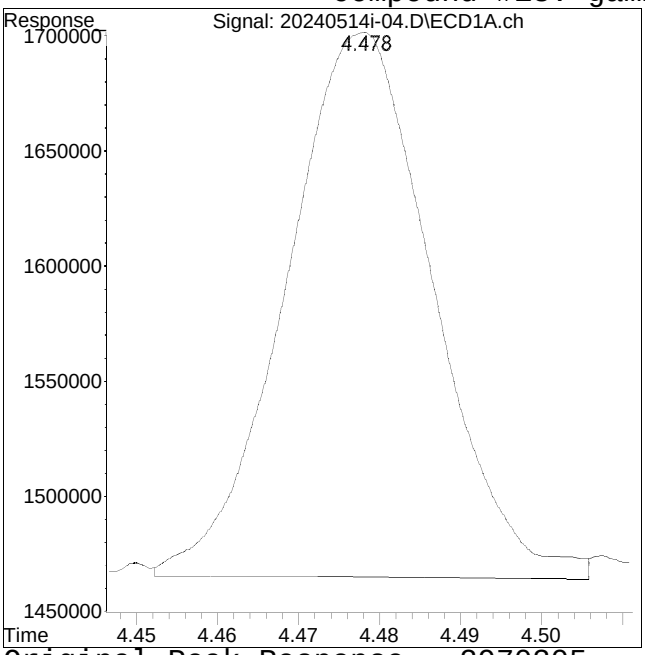
Manual Peak Response = 3679876 M4

M4 = Poor automated baseline construction.

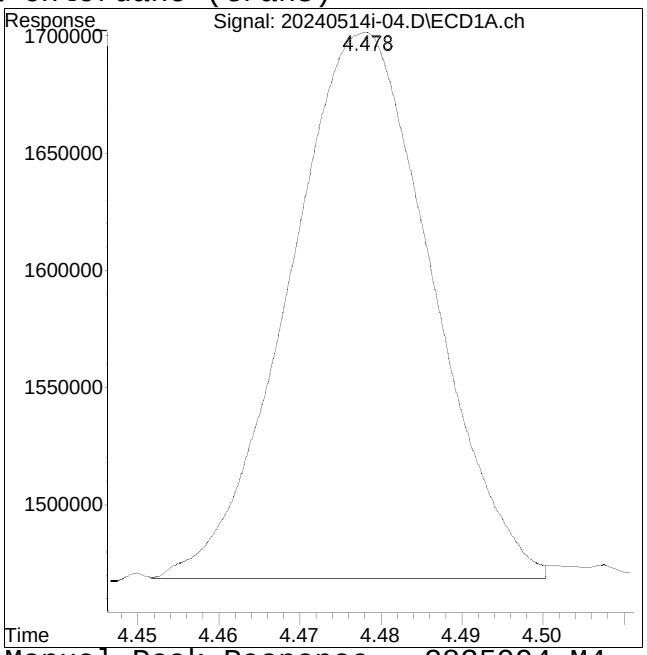
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 2970305



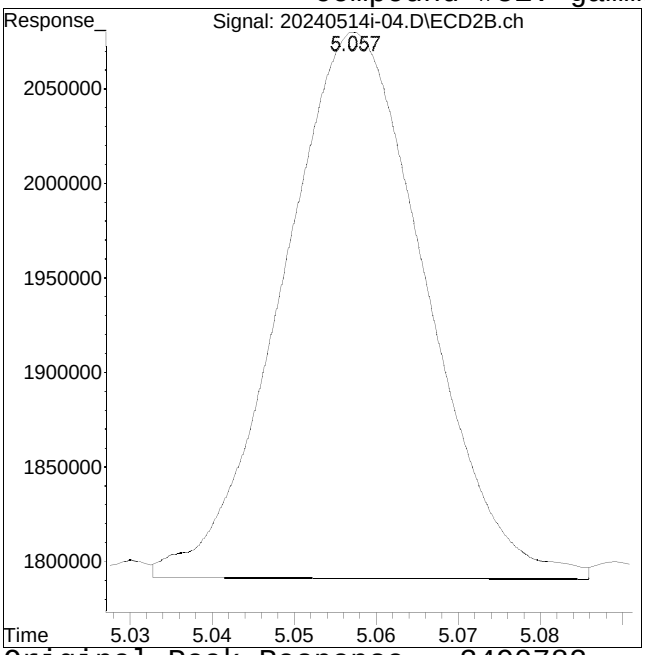
Manual Peak Response = 2835994 M4

M4 = Poor automated baseline construction.

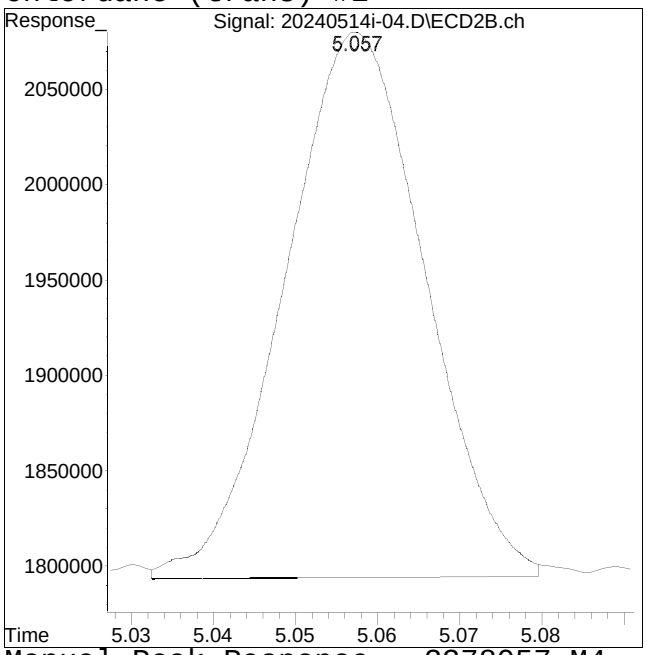
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 3490782



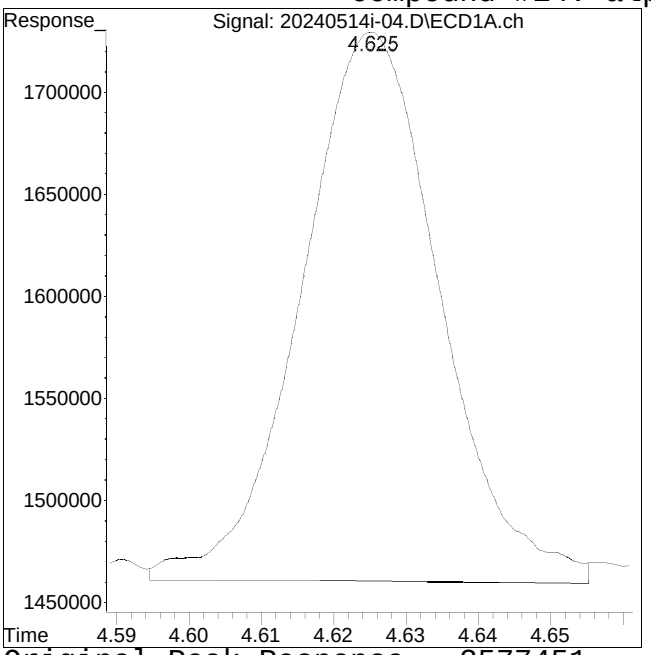
Manual Peak Response = 3378057 M4

M4 = Poor automated baseline construction.

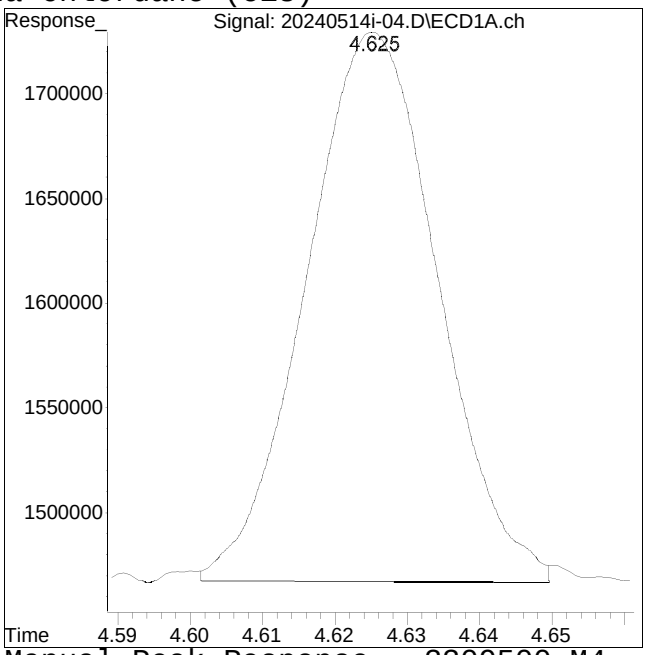
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 3577451



Manual Peak Response = 3309500 M4

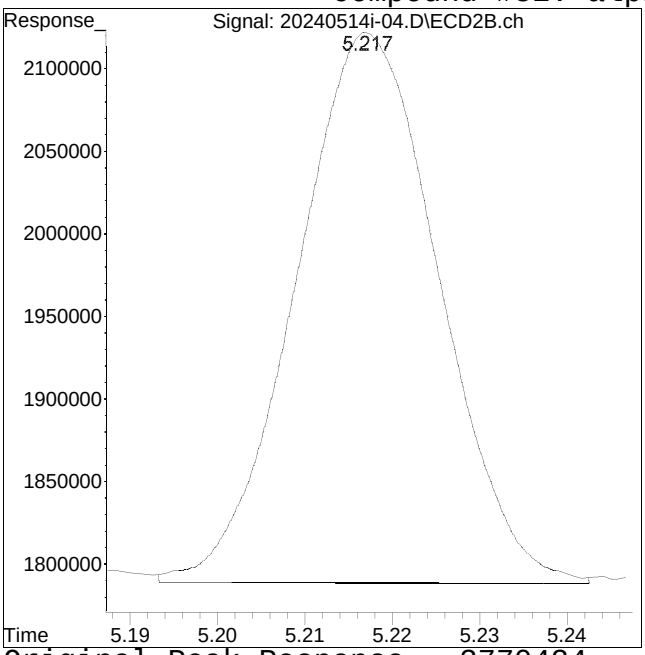
M4 = Poor automated baseline construction.

Manual Integration Report

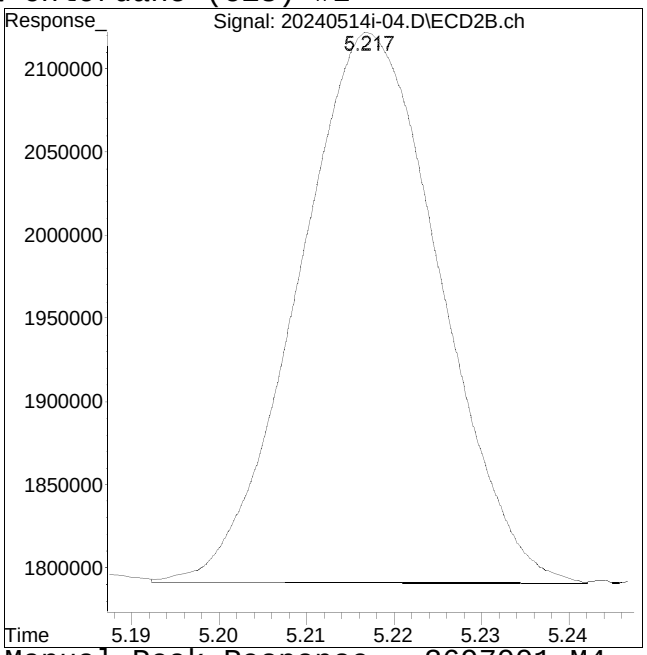
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-04.D
Date Inj'd : 5/14/2024 5:10 pm
Sample : il2pest,42e,,pp 11584 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 1:19 pm

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 3770424



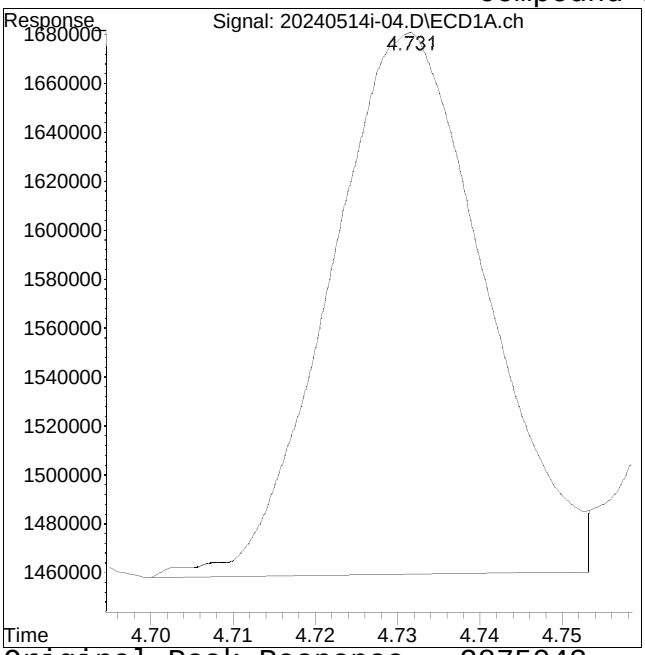
Manual Peak Response = 3697001 M4

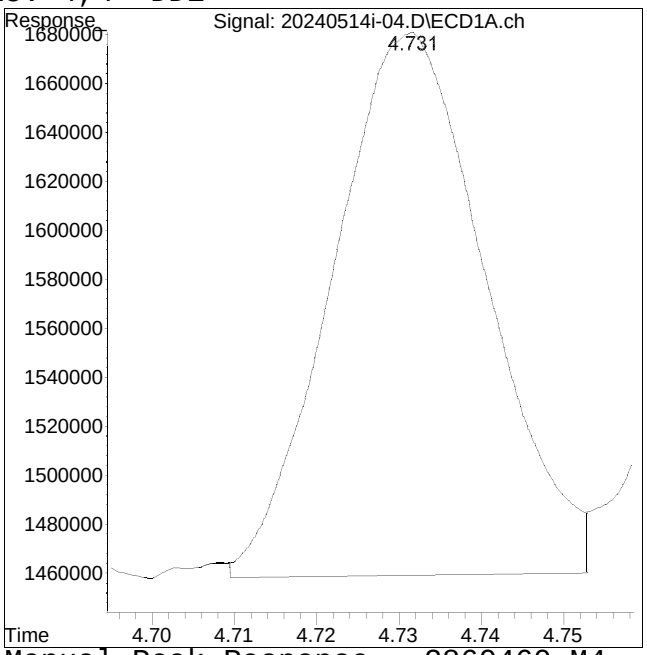
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #15: 4,4'-DDE



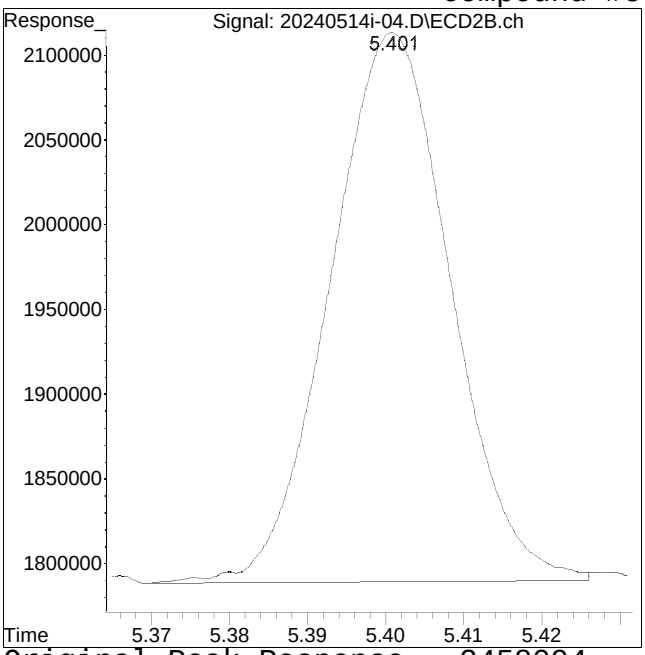


Original Peak Response = 2875043 Manual Peak Response = 2860460 M4
M4 = Poor automated baseline construction.

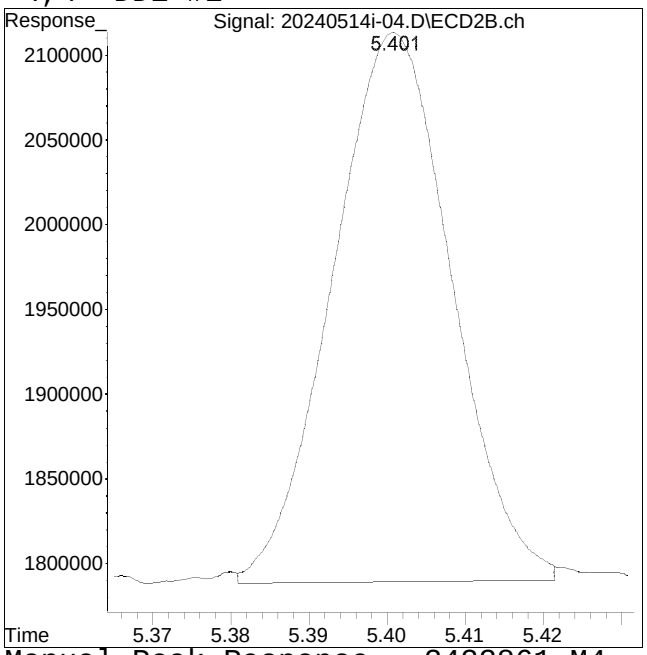
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 3458094



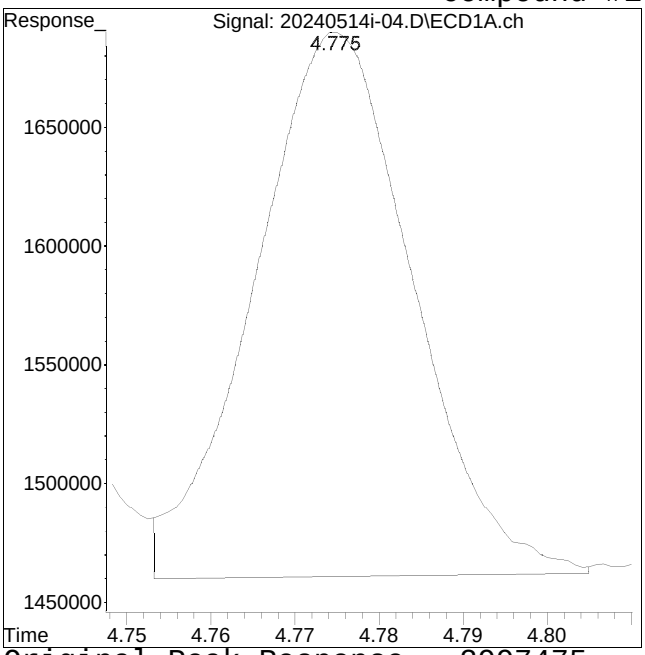
Manual Peak Response = 3423861 M4

M4 = Poor automated baseline construction.

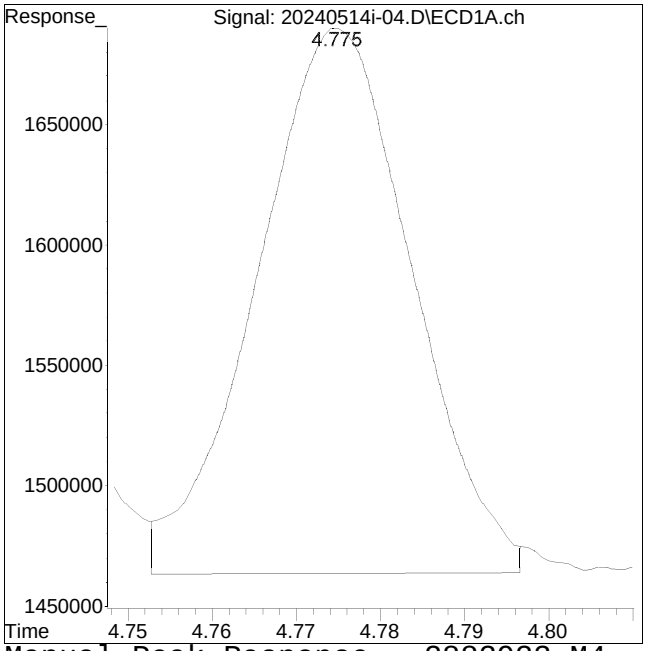
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #16: Endosulfan I



Original Peak Response = 2997475



Manual Peak Response = 2883933 M4

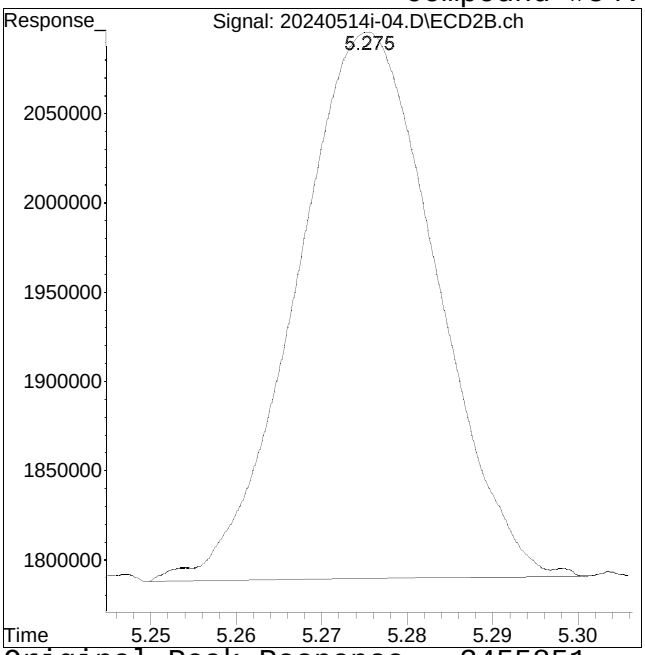
M4 = Poor automated baseline construction.

Manual Integration Report

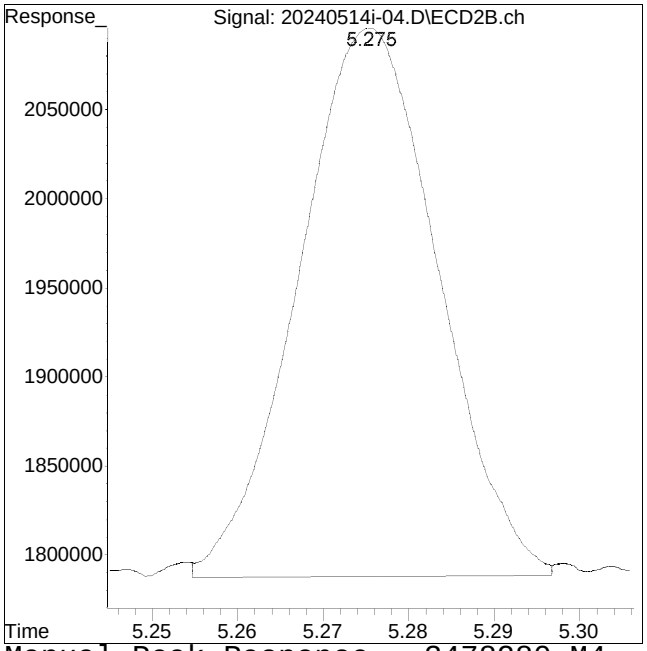
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-04.D
Date Inj'd : 5/14/2024 5:10 pm
Sample : il2pest,42e,,pp 11584 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 1:19 pm

Compound #54: Endosulfan I #2



Original Peak Response = 3455851



Manual Peak Response = 3478280 M4

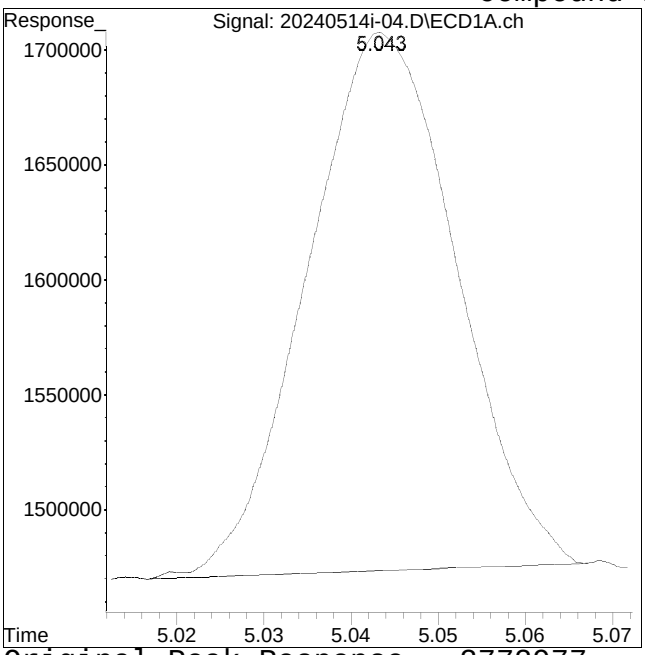
M4 = Poor automated baseline construction.

Manual Integration Report

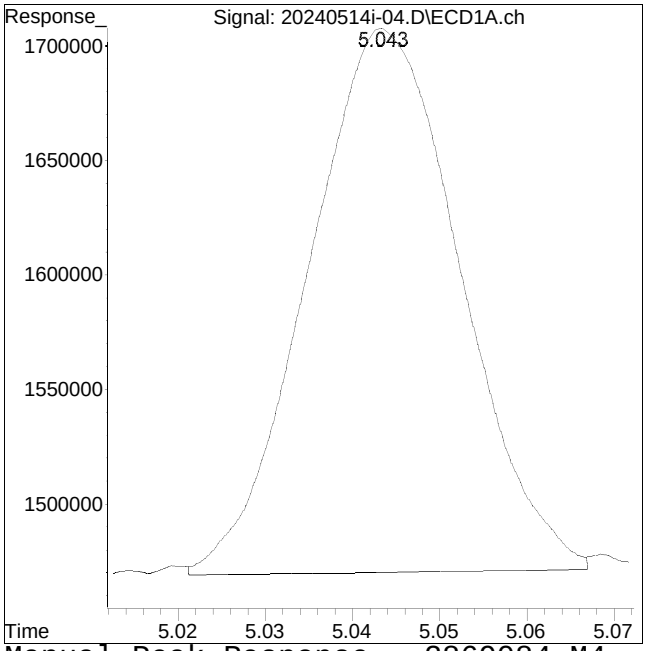
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-04.D
Date Inj'd : 5/14/2024 5:10 pm
Sample : il2pest,42e,,pp 11584 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 1:19 pm

Compound #17: Dieldrin



Original Peak Response = 2772977



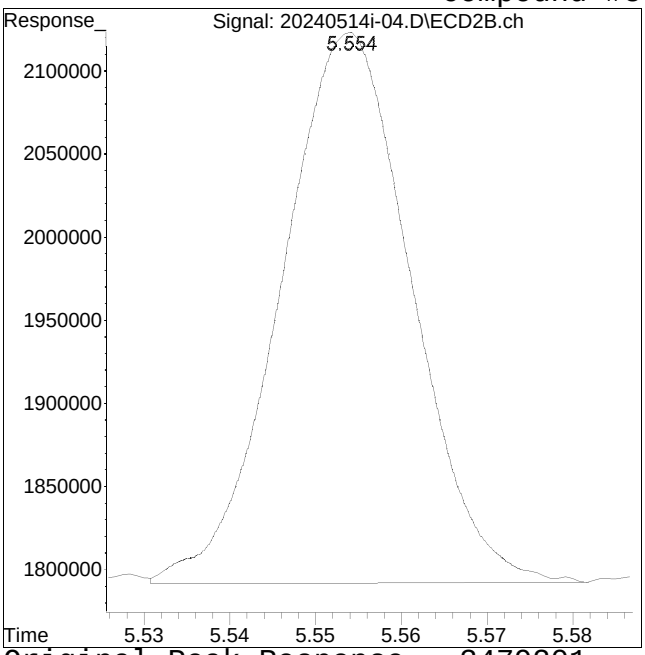
Manual Peak Response = 2869084 M4

M4 = Poor automated baseline construction.

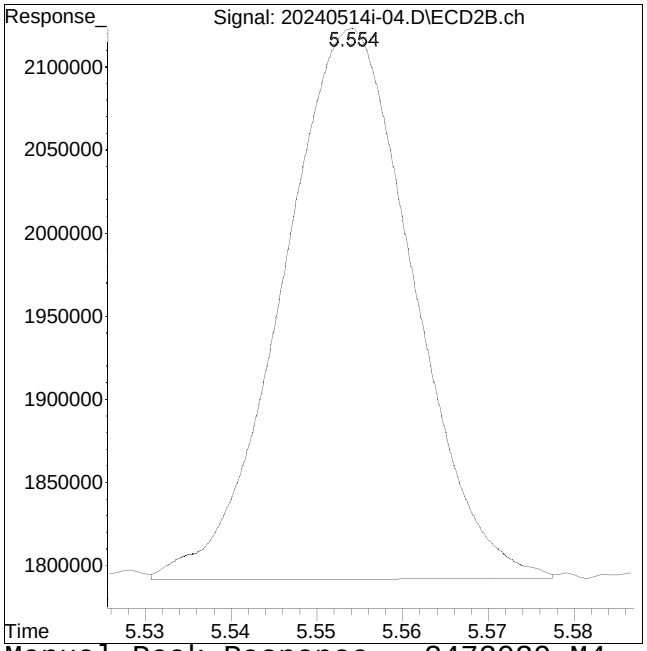
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #55: Dieldrin #2



Original Peak Response = 3479201



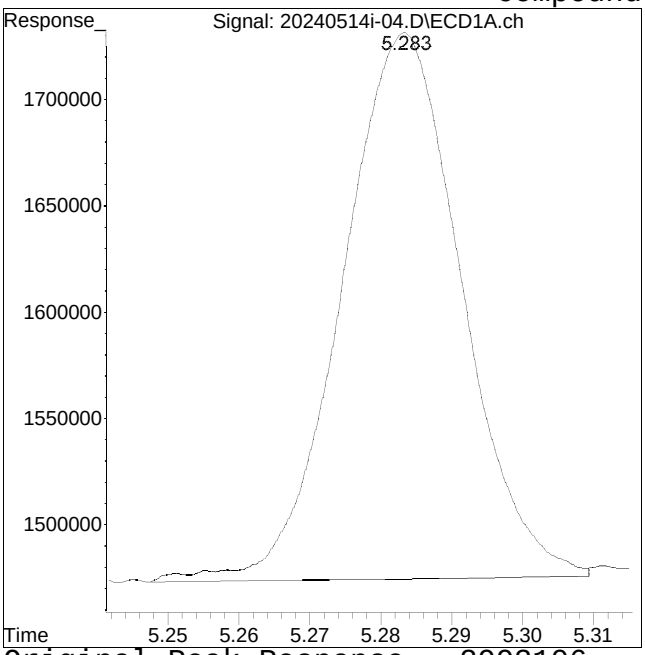
Manual Peak Response = 3473039 M4

M4 = Poor automated baseline construction.

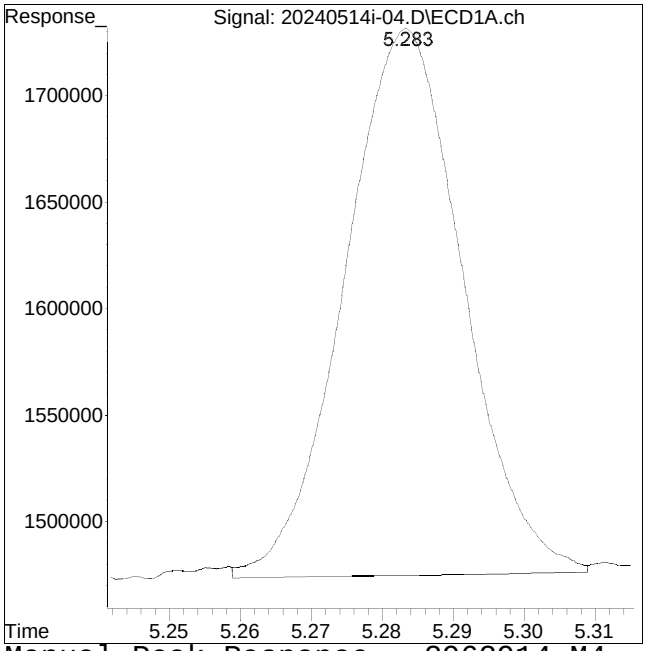
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #18: Endrin



Original Peak Response = 2993106



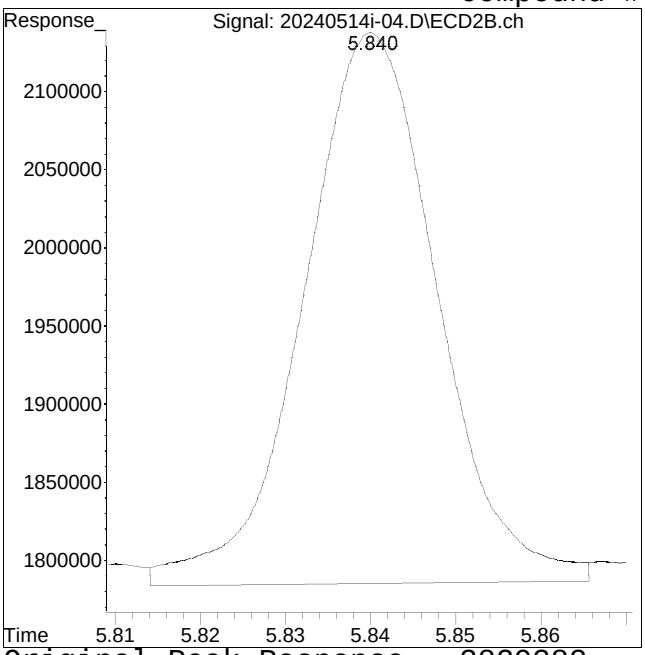
Manual Peak Response = 2962914 M4

M4 = Poor automated baseline construction.

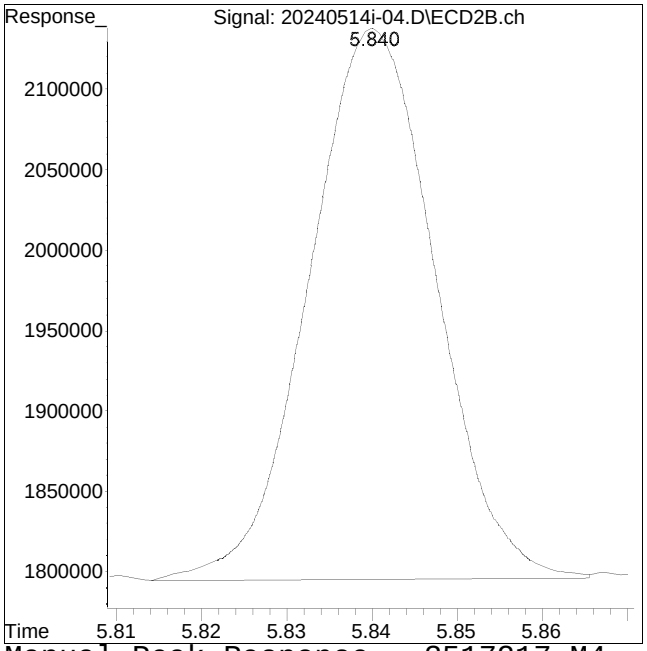
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #56: Endrin #2



Original Peak Response = 3829382



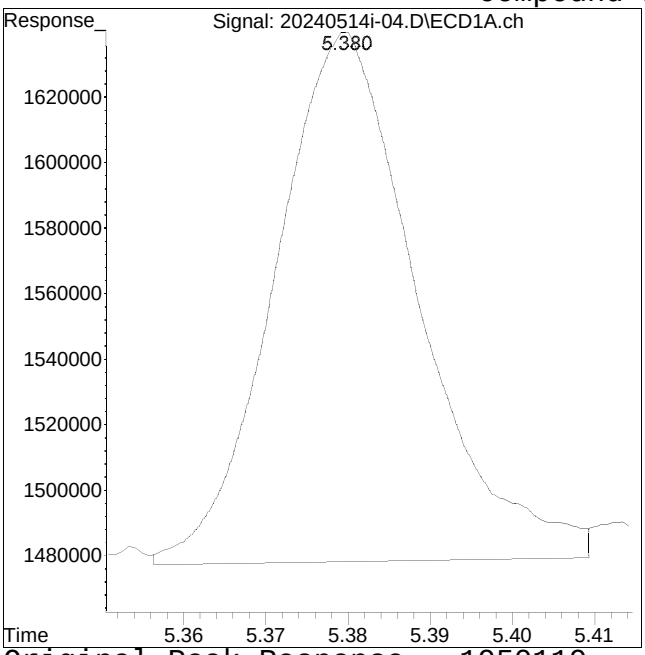
Manual Peak Response = 3517217 M4

M4 = Poor automated baseline construction.

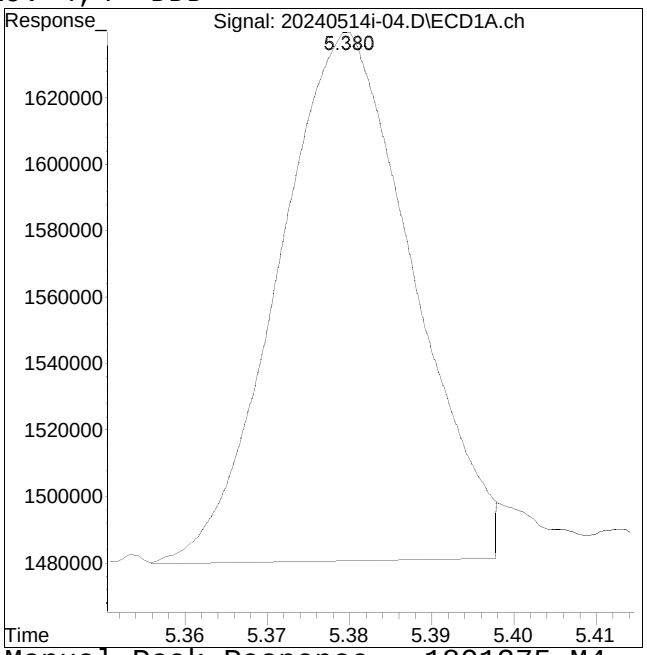
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #19: 4,4'-DDD



Original Peak Response = 1950119



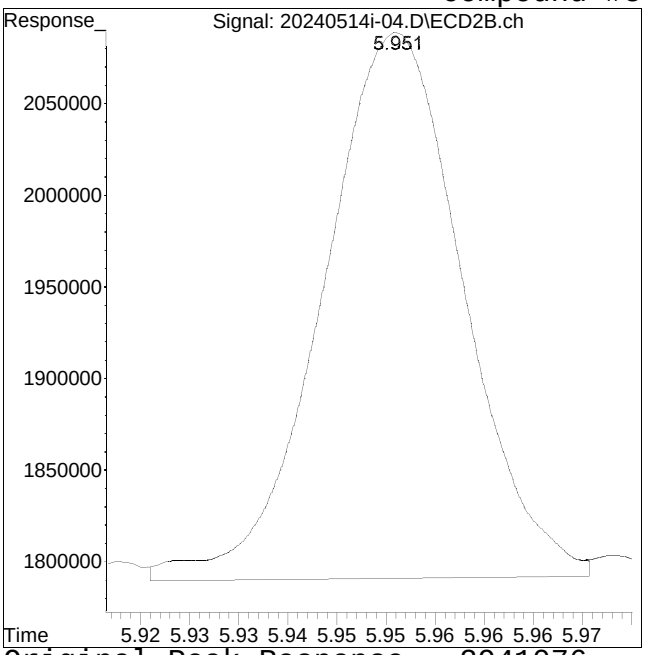
Manual Peak Response = 1801275 M4

M4 = Poor automated baseline construction.

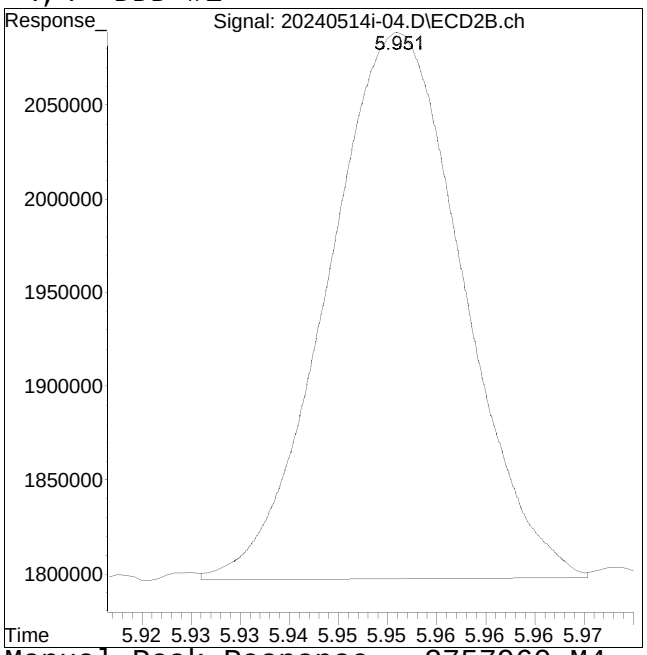
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #57: 4,4'-DDD #2



Original Peak Response = 2941076



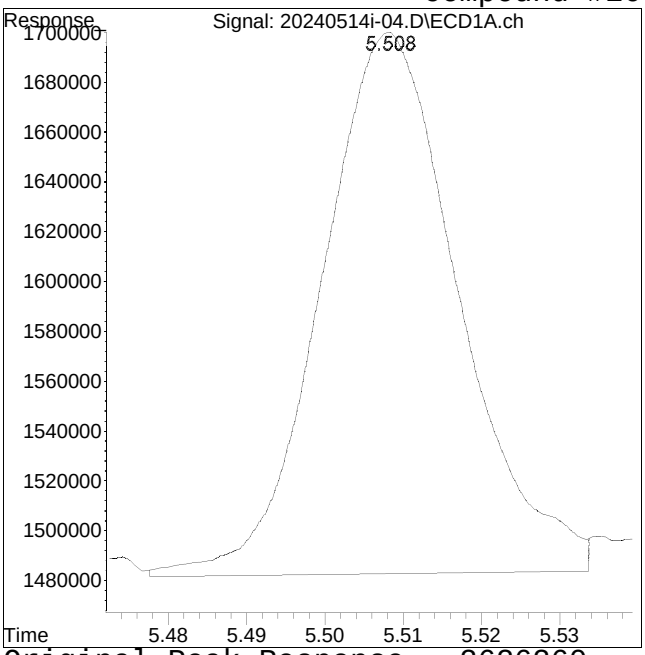
Manual Peak Response = 2757960 M4

M4 = Poor automated baseline construction.

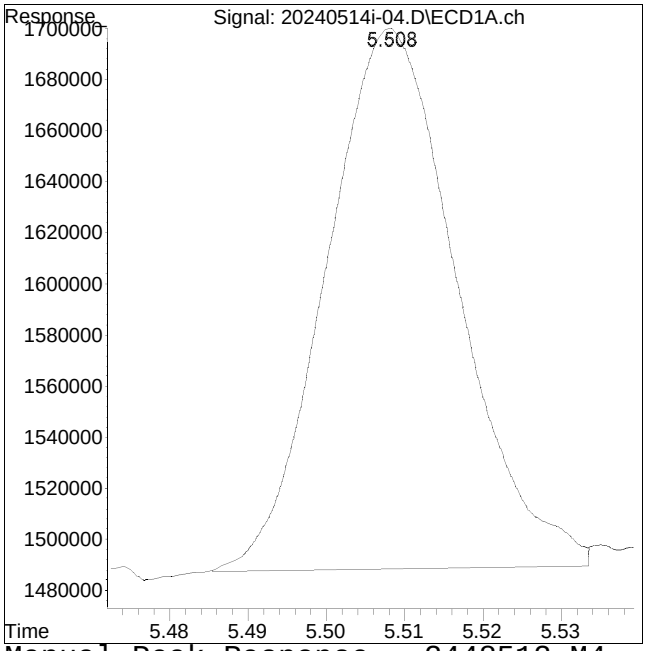
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #20: Endosulfan II



Original Peak Response = 2626260



Manual Peak Response = 2448512 M4

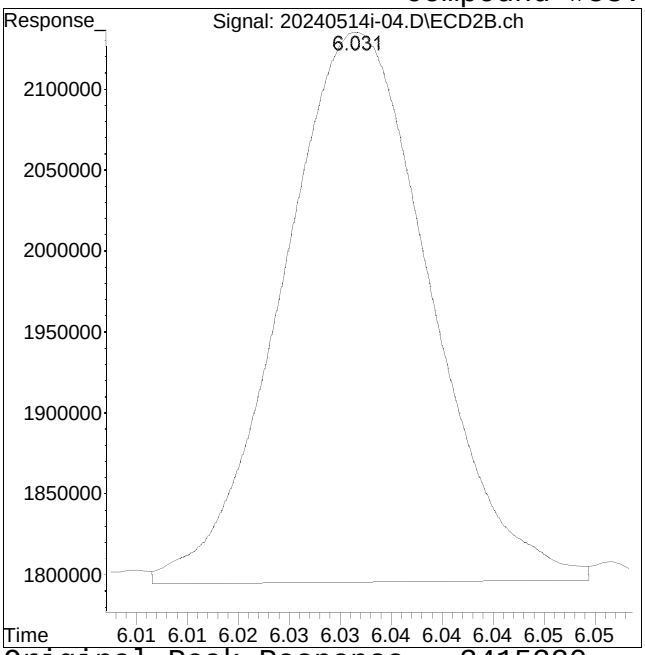
M4 = Poor automated baseline construction.

Manual Integration Report

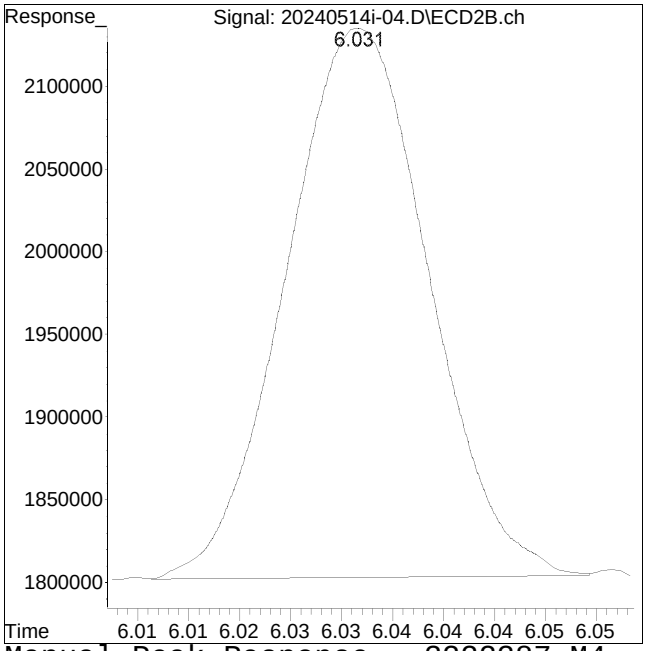
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-04.D
Date Inj'd : 5/14/2024 5:10 pm
Sample : il2pest,42e,,pp 11584 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 1:19 pm

Compound #58: Endosulfan II #2



Original Peak Response = 3415320



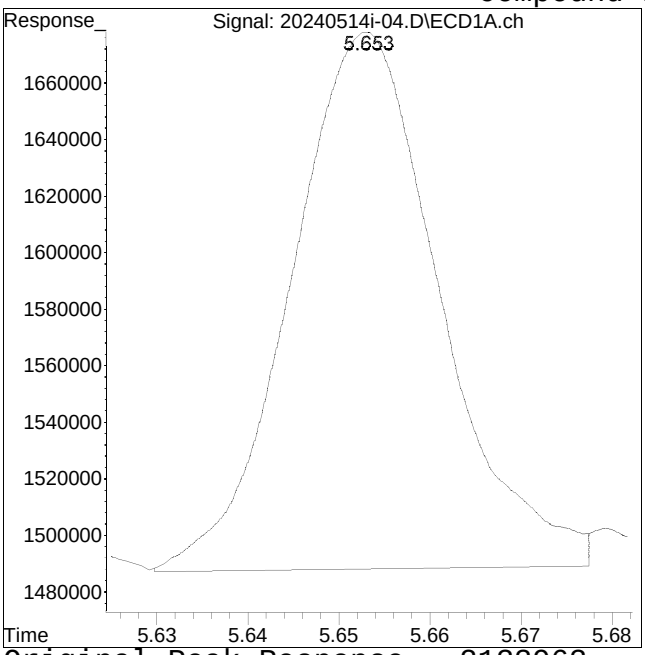
Manual Peak Response = 3222387 M4

M4 = Poor automated baseline construction.

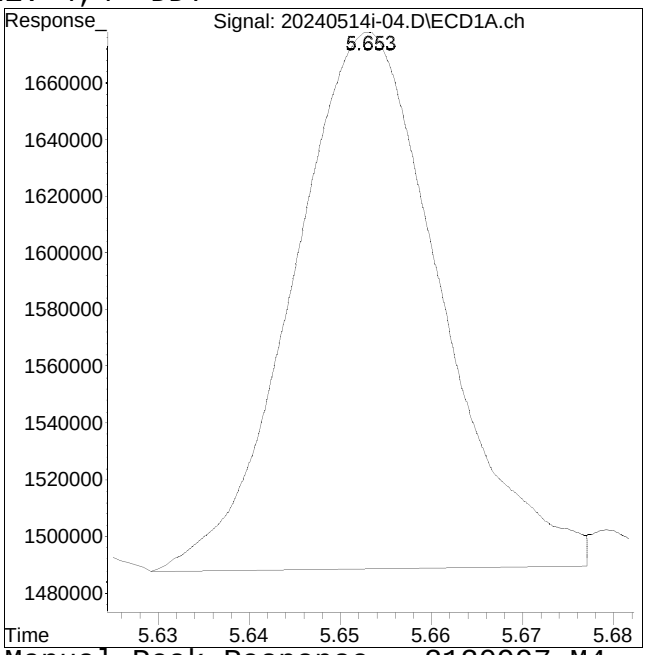
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #21: 4,4'-DDT



Original Peak Response = 2133963



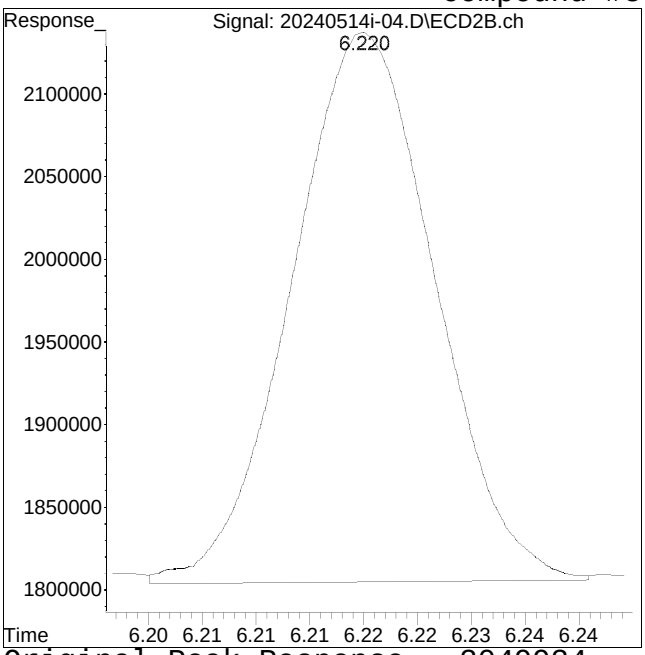
Manual Peak Response = 2120997 M4

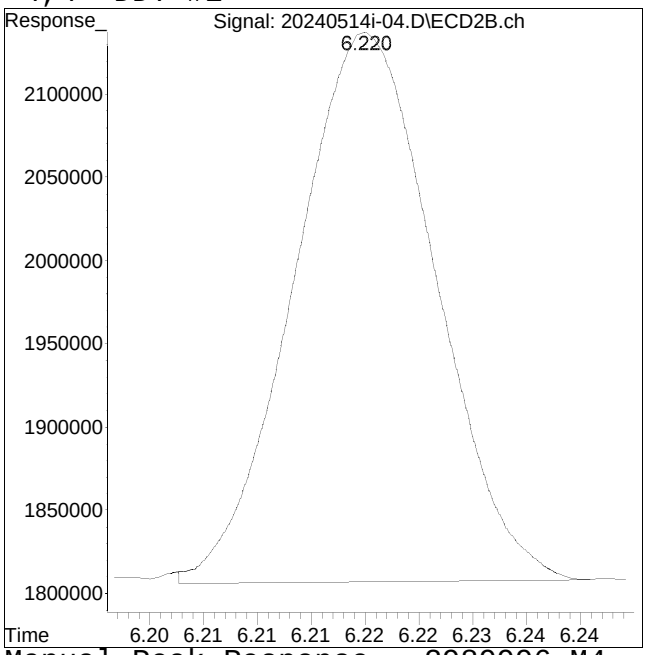
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #59: 4,4'-DDT #2





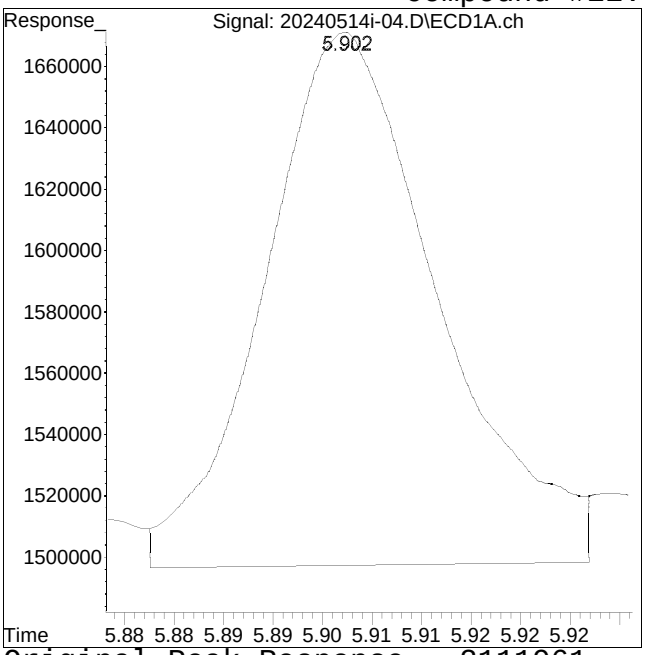
Original Peak Response = 3049934 Manual Peak Response = 2989996 M4
M4 = Poor automated baseline construction.

Manual Integration Report

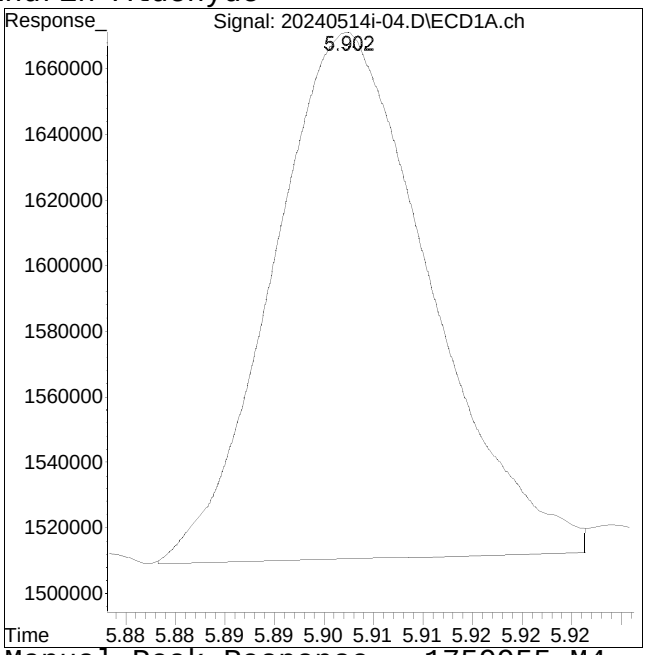
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-04.D
Date Inj'd : 5/14/2024 5:10 pm
Sample : il2pest,42e,,pp 11584 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 1:19 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 2111961



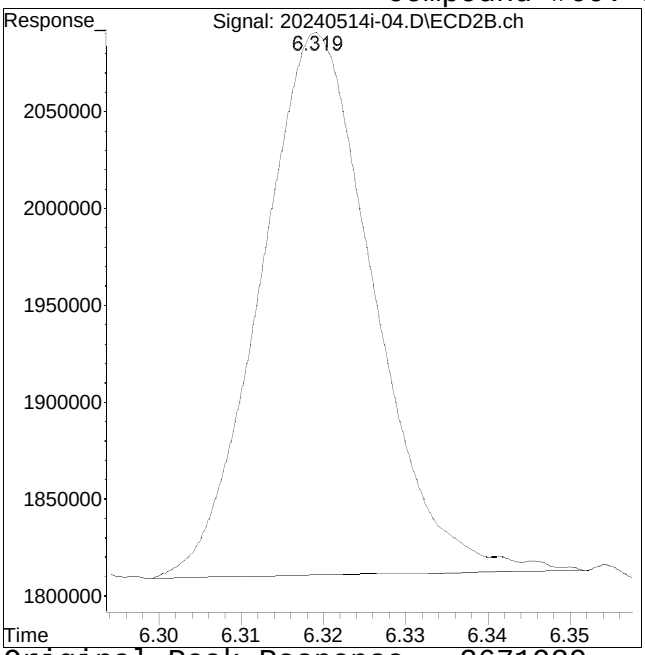
Manual Peak Response = 1759955 M4

M4 = Poor automated baseline construction.

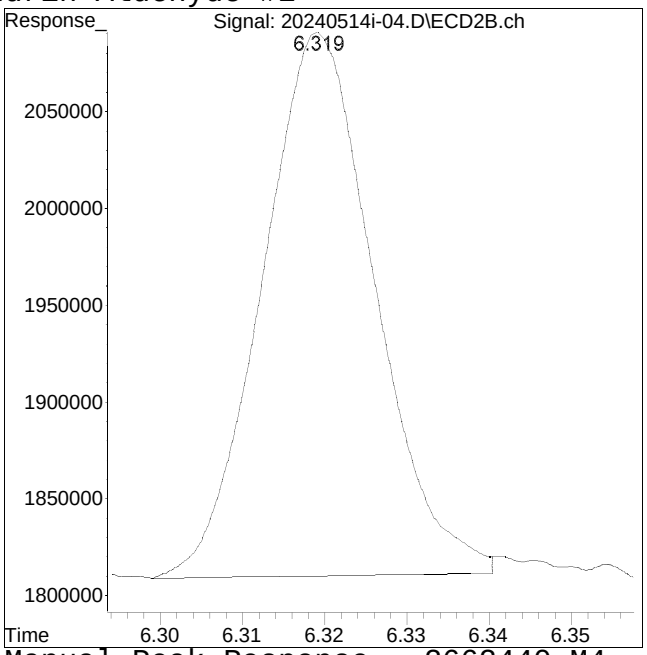
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 2671929



Manual Peak Response = 2662440 M4

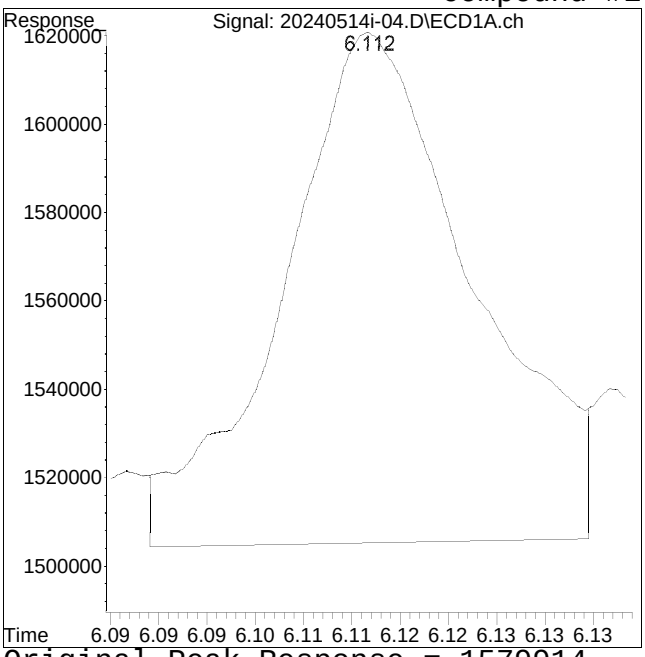
M4 = Poor automated baseline construction.

Manual Integration Report

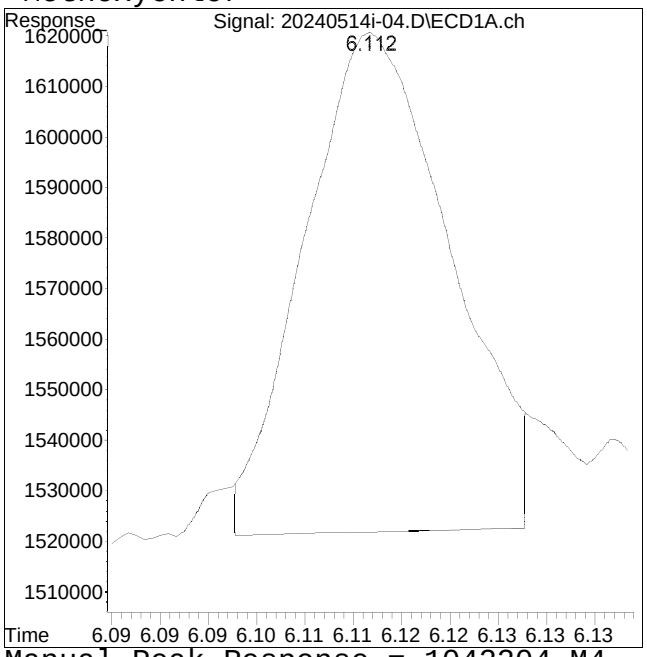
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-04.D
Date Inj'd : 5/14/2024 5:10 pm
Sample : il2pest,42e,,pp 11584 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 1:19 pm

Compound #23: Methoxychlor



Original Peak Response = 1579914



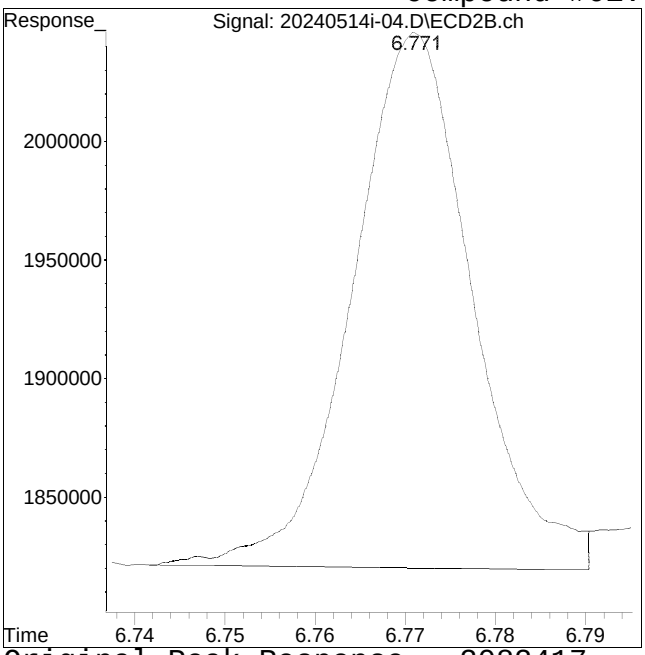
Manual Peak Response = 1042204 M4

M4 = Poor automated baseline construction.

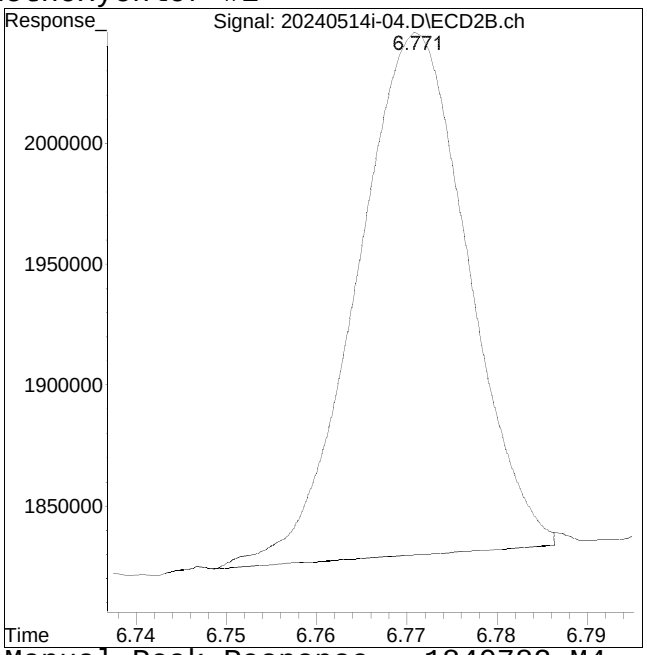
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #61: Methoxychlor #2



Original Peak Response = 2082417



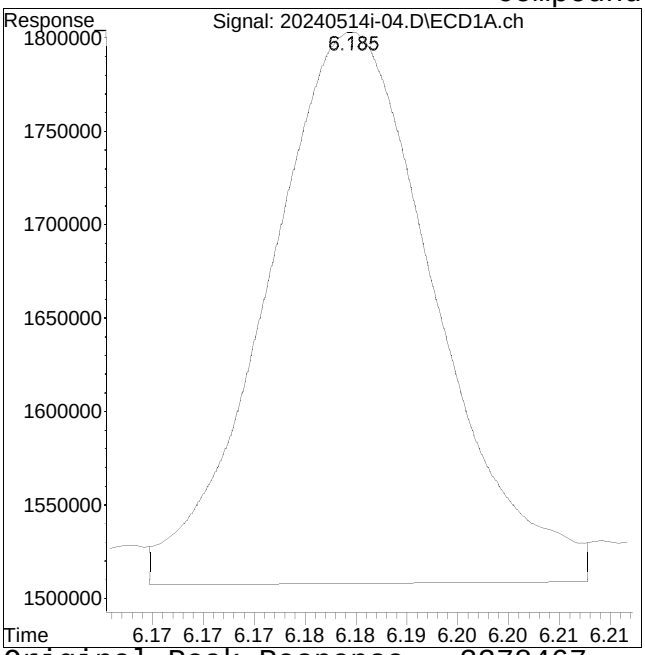
Manual Peak Response = 1840782 M4

M4 = Poor automated baseline construction.

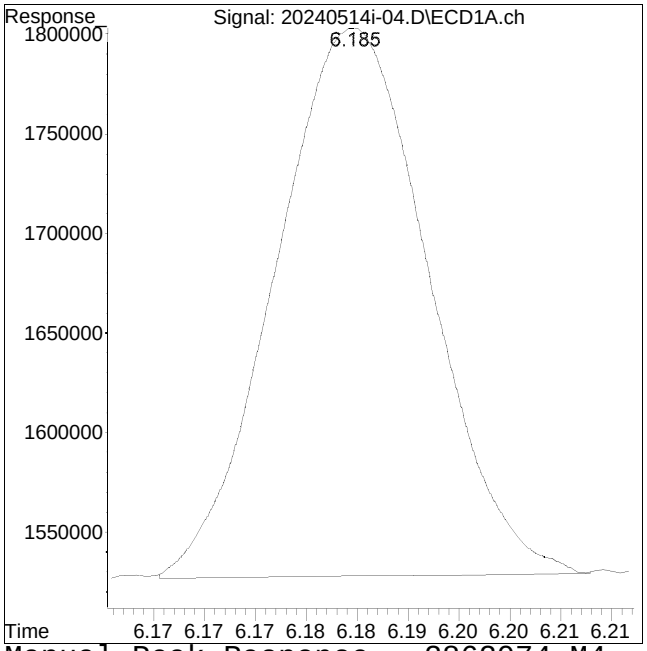
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #24: Mirex



Original Peak Response = 3378467



Manual Peak Response = 2862074 M4

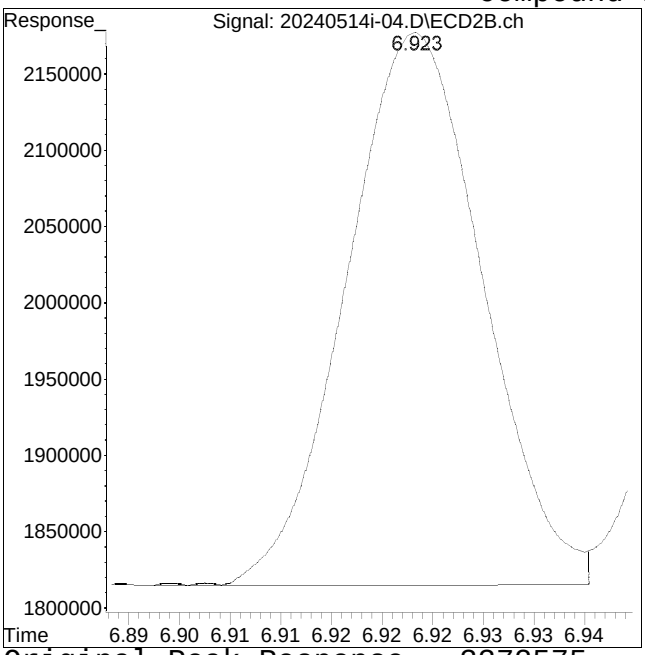
M4 = Poor automated baseline construction.

Manual Integration Report

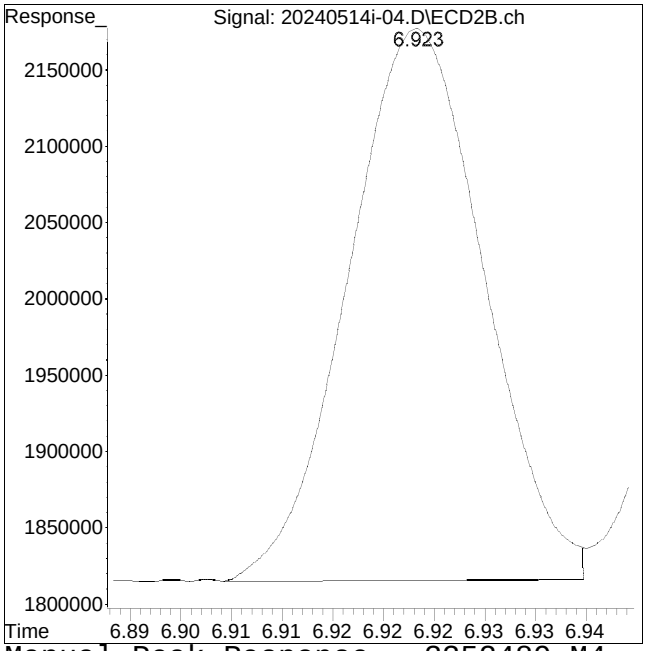
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-04.D
Date Inj'd : 5/14/2024 5:10 pm
Sample : il2pest,42e,,pp 11584 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 1:19 pm

Compound #62: Mirex #2



Original Peak Response = 3372575



Manual Peak Response = 3352489 M4

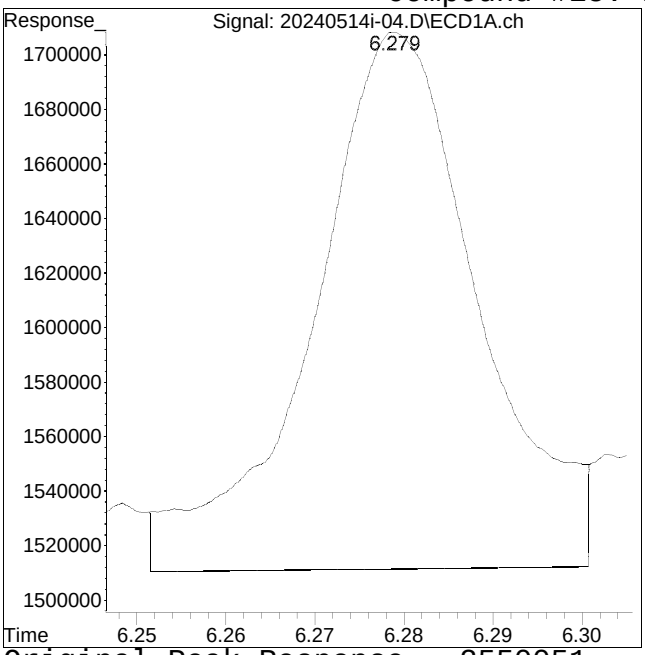
M4 = Poor automated baseline construction.

Manual Integration Report

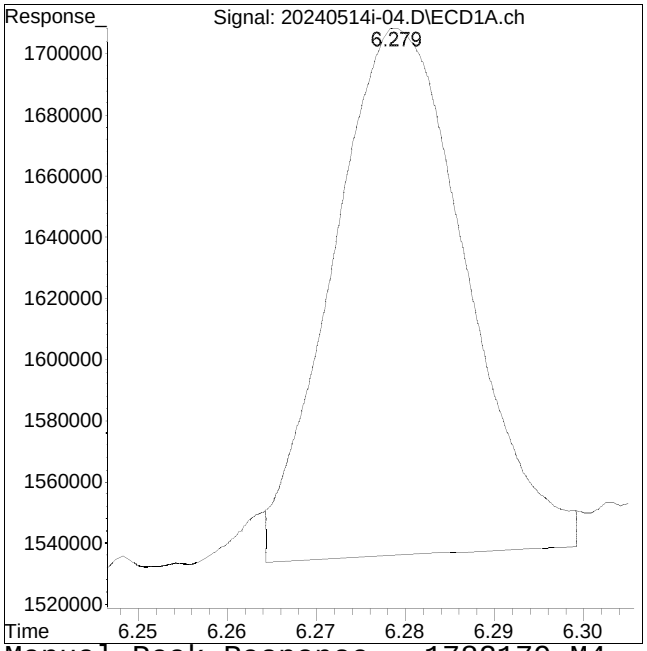
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-04.D
Date Inj'd : 5/14/2024 5:10 pm
Sample : il2pest,42e,,pp 11584 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 1:19 pm

Compound #25: Endosulfan Sulfate



Original Peak Response = 2550051



Manual Peak Response = 1782179 M4

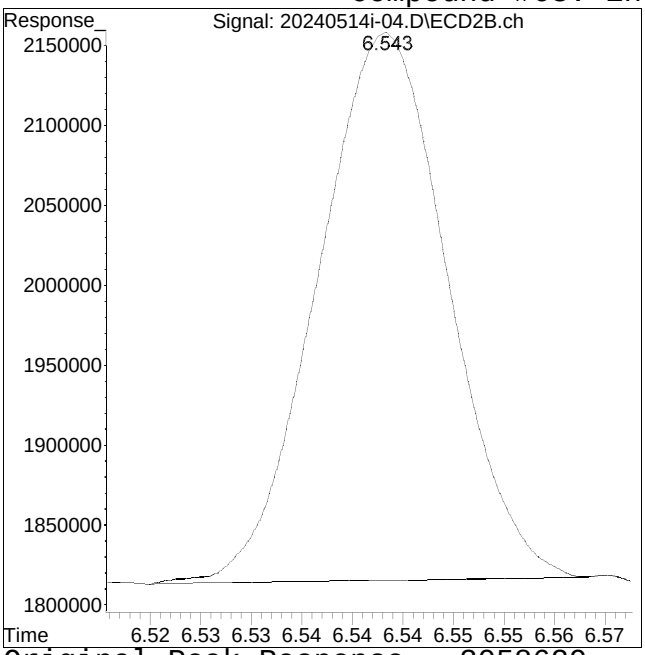
M4 = Poor automated baseline construction.

Manual Integration Report

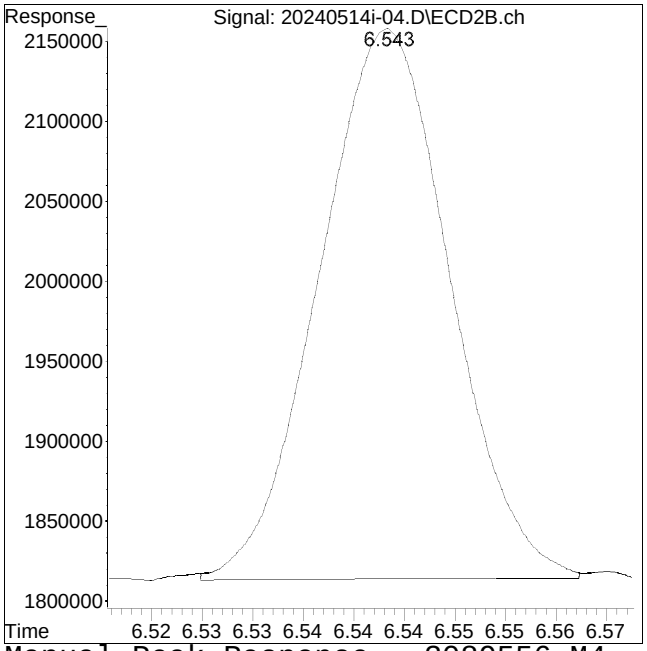
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-04.D
Date Inj'd : 5/14/2024 5:10 pm
Sample : il2pest,42e,,pp 11584 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 1:19 pm

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 3058629



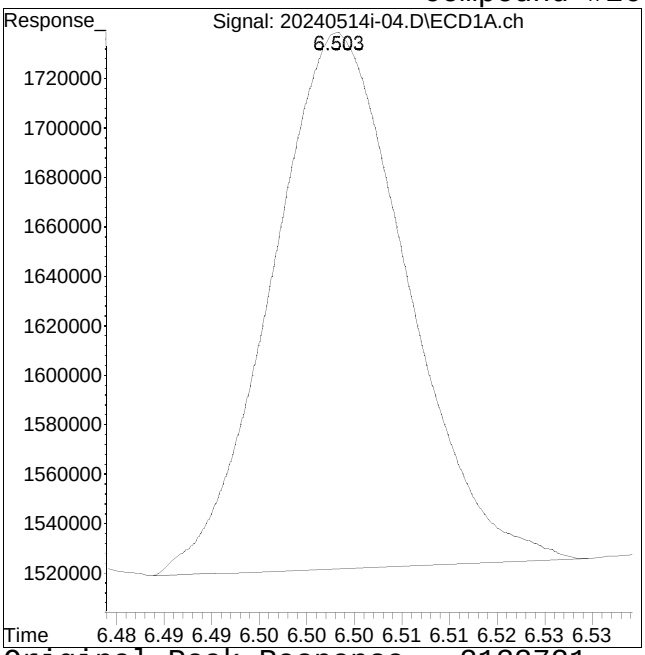
Manual Peak Response = 3089556 M4

M4 = Poor automated baseline construction.

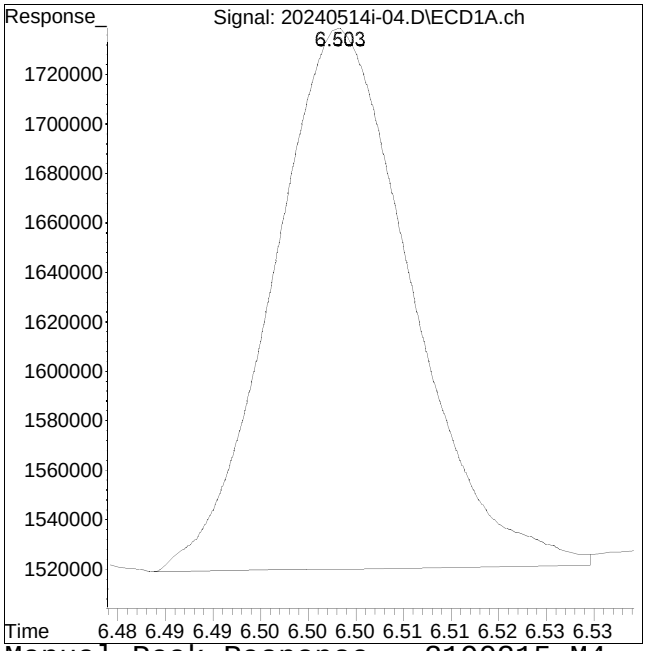
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #26: Endrin Ketone



Original Peak Response = 2133721



Manual Peak Response = 2190215 M4

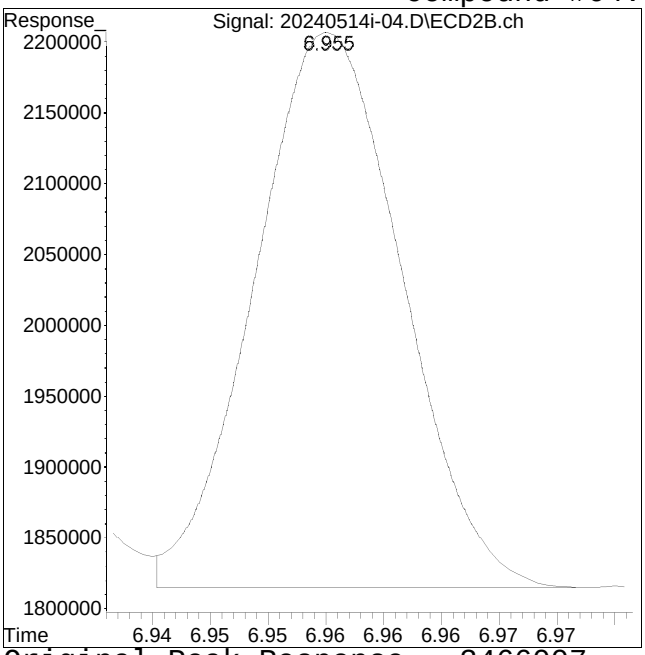
M4 = Poor automated baseline construction.

Manual Integration Report

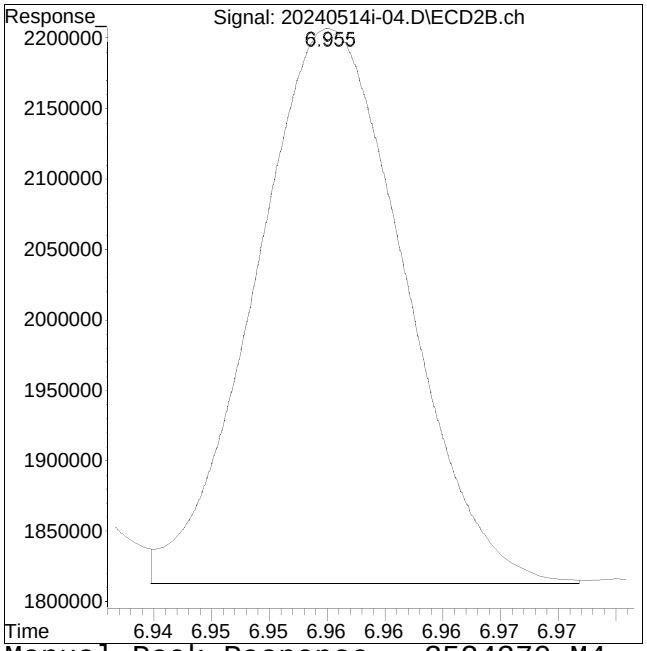
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-04.D
Date Inj'd : 5/14/2024 5:10 pm
Sample : il2pest,42e,,pp 11584 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 1:19 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 3466007



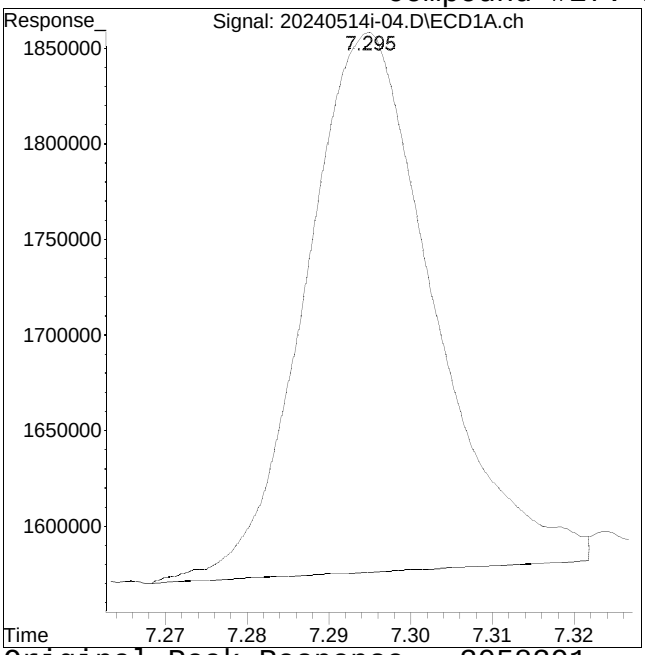
Manual Peak Response = 3524370 M4

M4 = Poor automated baseline construction.

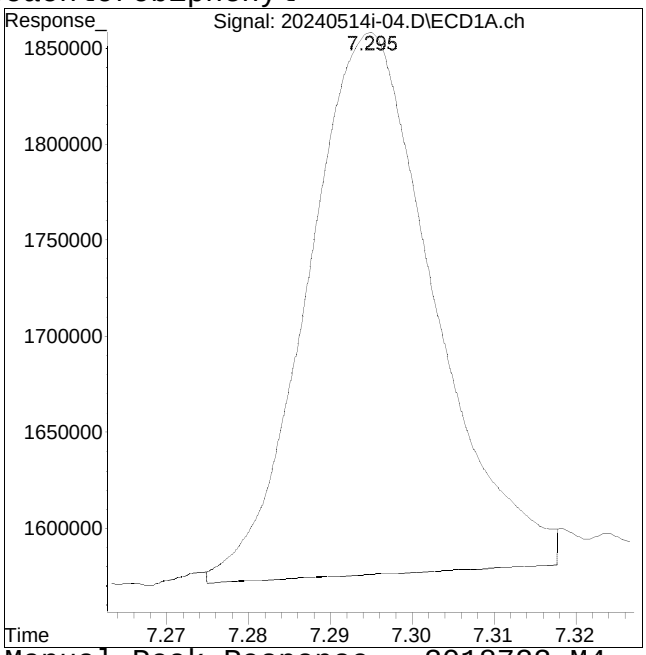
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-04.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:10 pm Instrument : PEST 20
Sample : il2pest,42e,,pp 11584 L0.0Quant Date : 5/16/2024 1:19 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 3058391



Manual Peak Response = 3018723 M4

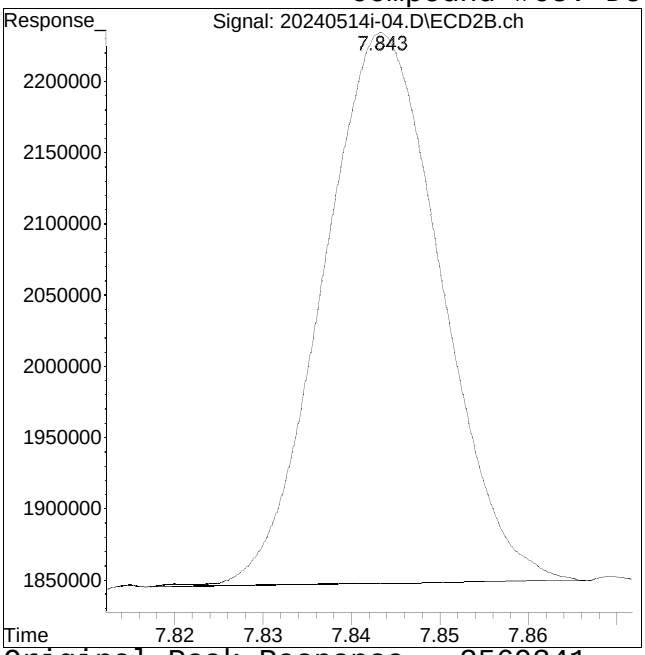
M4 = Poor automated baseline construction.

Manual Integration Report

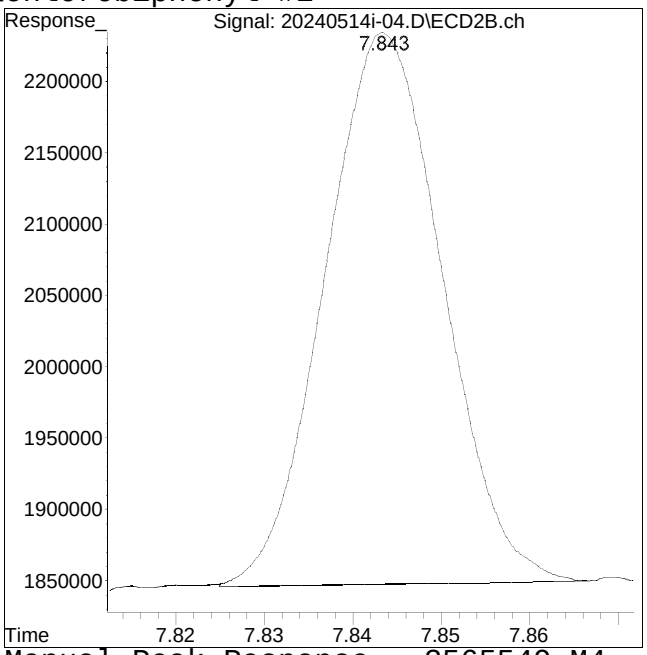
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-04.D
Date Inj'd : 5/14/2024 5:10 pm
Sample : il2pest,42e,,pp 11584 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 1:19 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 3569341



Manual Peak Response = 3565549 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 05:22 pm
Operator : pest20:peg
Sample : il3pest,42e,,pp 11583 L0.002 (Sig #1); il3pest,42e,,pp 11570 L0.002 (Sig #2)
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 12:28:59 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 12:20:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.933	1.972	51828116	69126385	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.406	2.576	5355243	6744729	2.307M4	2.240M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		4.61%#	4.48%#
27) s	Decachlorobi	7.294	7.842	5636244	6682696	2.364M4	2.406M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		4.73%#	4.81%#
	Target Compounds						
3)	Hexachlorobe	2.675	2.953	6222175	7756501	2.474M4	2.394M4
4)	alpha-BHC	2.798	3.067	5895922	7709953	2.097M4	2.052M4
5)	gamma-BHC (l	3.043	3.390	5784873	7515558	2.155M4	2.053M4
6)	beta-BHC	3.112	3.465	3286439	4175747	2.448M4	2.359M4
7)	delta-BHC	3.262	3.760	4587267	7165486	1.956M4	2.066M4
8)	Heptachlor	3.450	3.830	6224849	7685315	2.341M4	2.259M4
9)	Aldrin	3.728	4.178	5850456	6850444	2.219M4	2.119M4
10)	Alachlor	3.870	4.056	778633	1194572	2.177M4	2.343M4
11)	Chlorpyrifos	3.973	4.437	2791784	4393287	2.347M4	2.481M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 05:22 pm
Operator : pest20:peg
Sample : il3pest,42e,,pp 11583 L0.002 (Sig #1); il3pest,42e,,pp 11570 L0.002 (Sig #2)
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 12:28:59 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 12:20:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)		Heptachlor E	4.340	4.840	6009406	7298923	2.349M4	2.238M4
13)		gamma-Chlord	4.477	5.058	5444568	6448395	2.325M4	2.250M4
14)		alpha-Chlord	4.625	5.218	6156225	7071989	2.310M4	2.225M4
15)		4,4'-DDE	4.730	5.402	5337782	6542337	2.162M4	2.098
16)		Endosulfan I	4.774	5.276	5610237	6587746	2.296M4	2.216M4
17)		Dieldrin	5.043	5.554	5580355	6504668	2.233M4	2.133M4
18)		Endrin	5.283	5.841	5460183	6598127	2.194M4	2.133M4
19)		4,4'-DDD	5.379	5.951	3441160	5169295	1.924M4	2.053M4
20)		Endosulfan I	5.507	6.032	4682735	6157188	2.202M4	2.192M4
21)		4,4'-DDT	5.652	6.220	3901700	5778309	2.039M4	2.105M4
22)		Endrin Aldeh	5.902	6.320	3364426	5060792	2.011M4	2.166M4
23)		Methoxychlor	6.112	6.771	2034093	3641911	2.059M4	2.304M4
24)		Mirex	6.184	6.923	5252543	6197882	2.466M4	2.442M4
25)		Endosulfan S	6.279	6.544	3732406	5905616	2.144M4	2.234
26)		Endrin Keton	6.503	6.956	4126061	6631283	2.087	2.184
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 05:22 pm
Operator : pest20:peg
Sample : il3pest,42e,,pp 11583 L0.002 (Sig #1); il3pest,42e,,pp 11570 L0.002 (Sig #2)
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 12:28:59 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 12:20:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

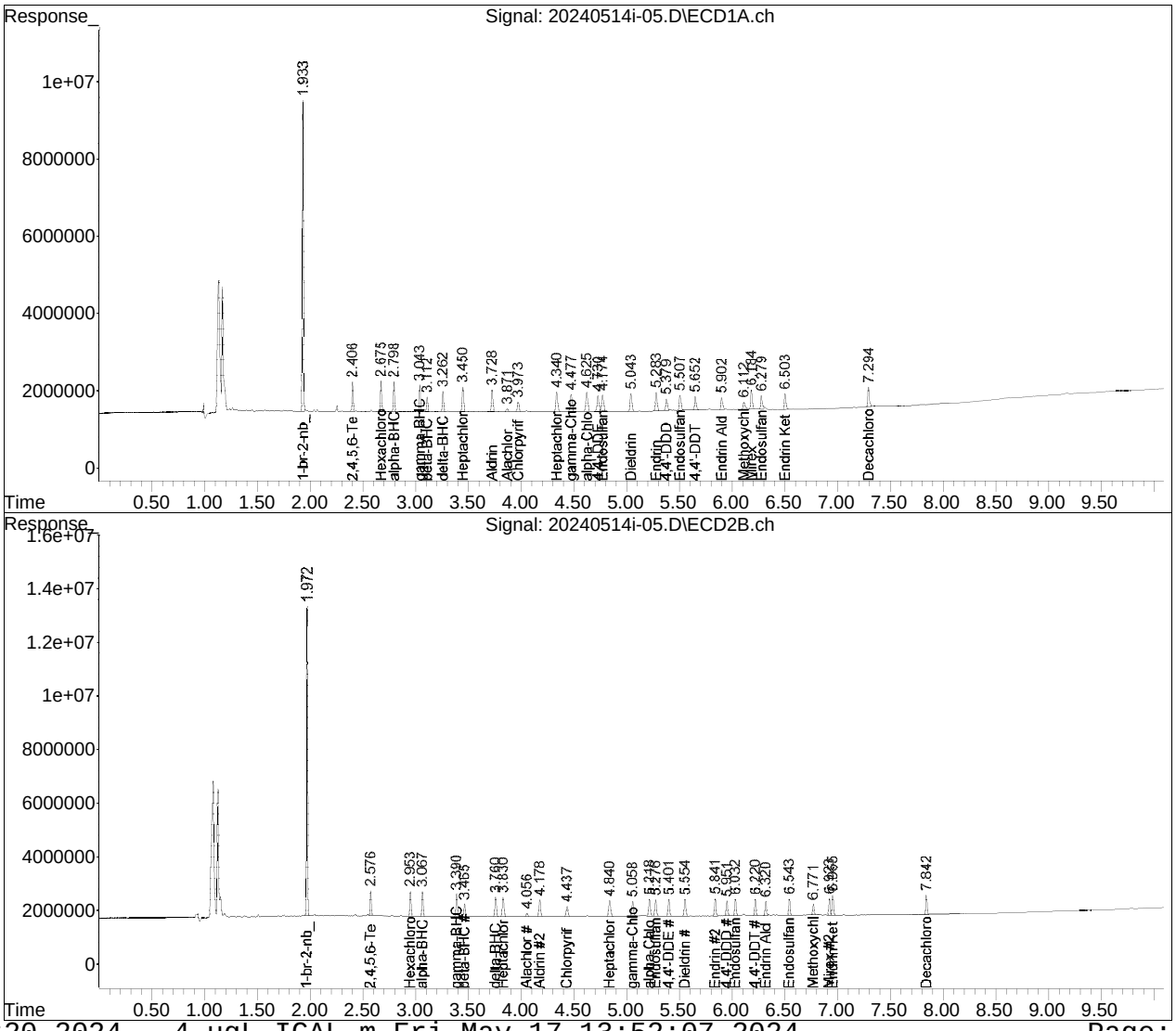
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 05:22 pm
Operator : pest20:peg
Sample : il3pest,42e,,pp 11583 L0.002 (Sig #1); il3pest,42e,,pp 11570 L0.00
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 12:28:59 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 12:20:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

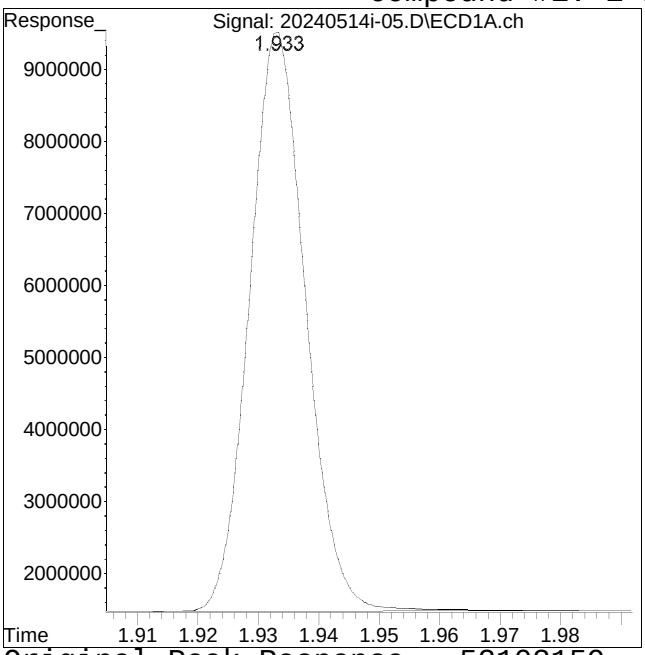


Manual Integration Report

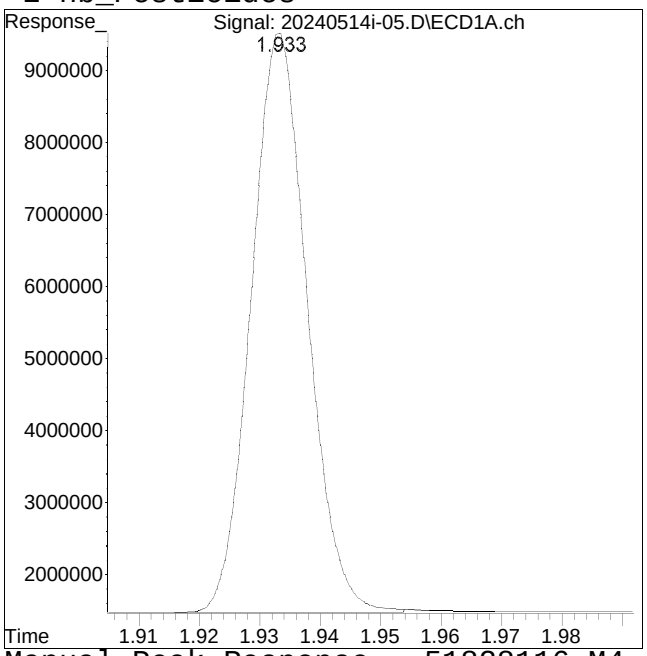
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-05.D
Date Inj'd : 5/14/2024 5:22 pm
Sample : il3pest,42e,,pp 11583 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 12:28 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 52103159



Manual Peak Response = 51828116 M4

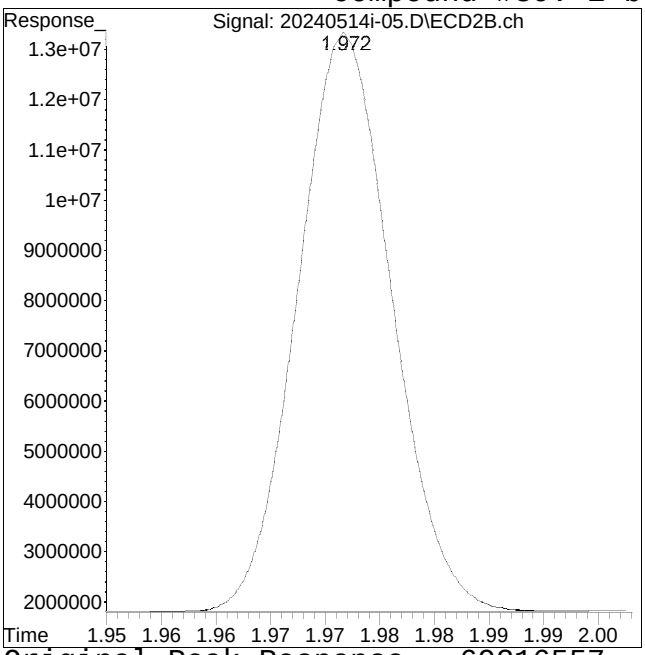
M4 = Poor automated baseline construction.

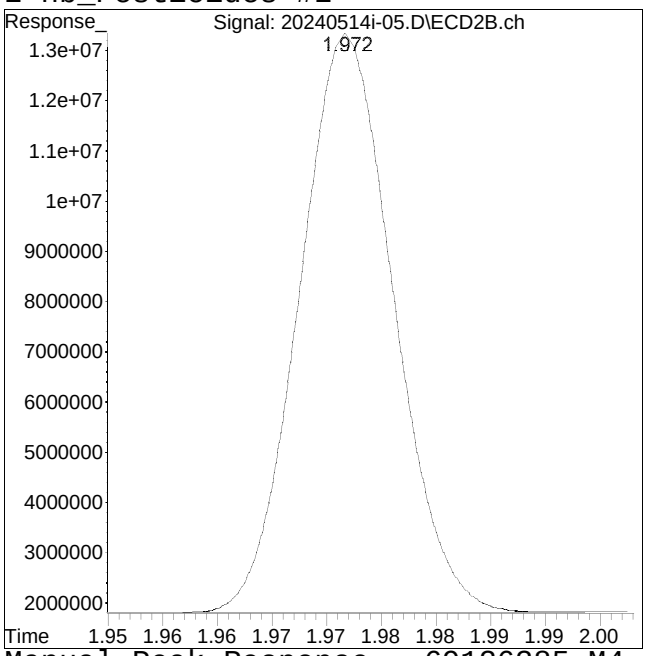
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-05.D
Date Inj'd : 5/14/2024 5:22 pm
Sample : il3pest,42e,,pp 11583 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 12:28 pm

Compound #39: 1-br-2-nb_Pesticides #2



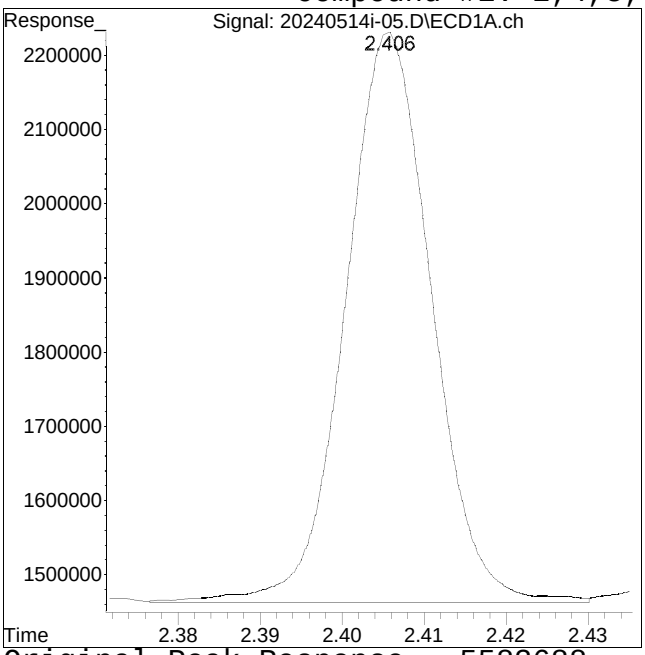


Original Peak Response = 69216557 Manual Peak Response = 69126385 M4
M4 = Poor automated baseline construction.

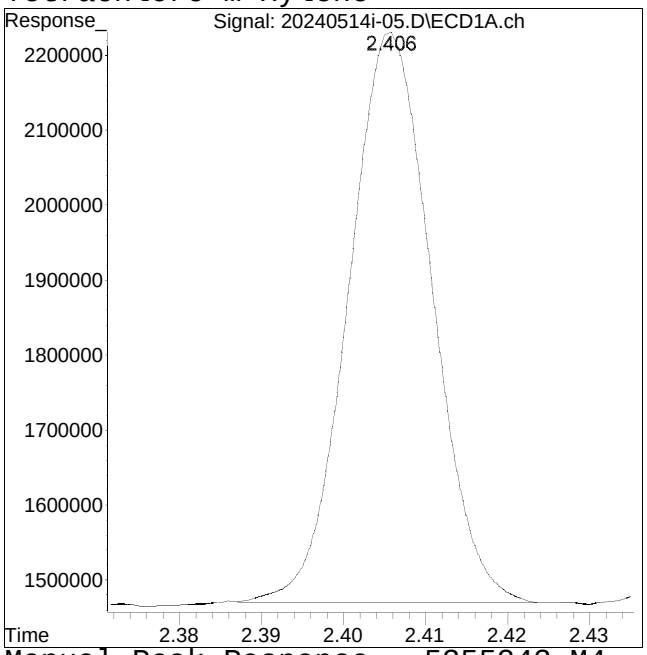
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 5583688



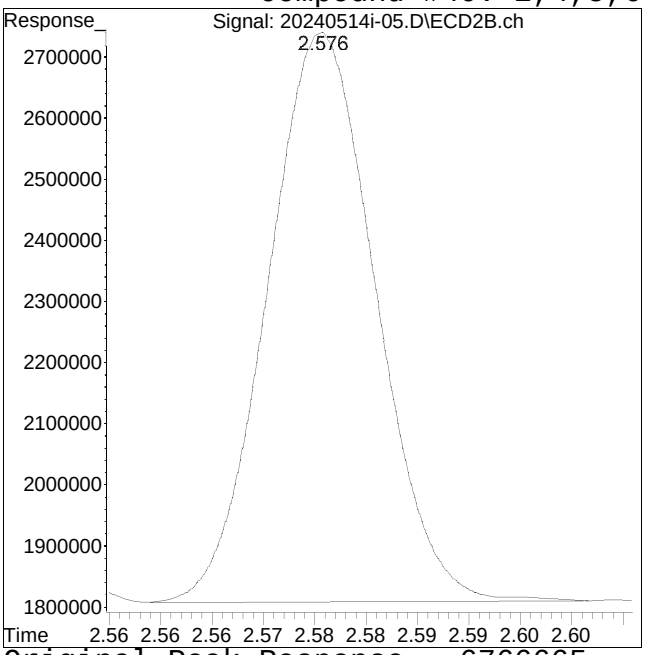
Manual Peak Response = 5355243 M4

M4 = Poor automated baseline construction.

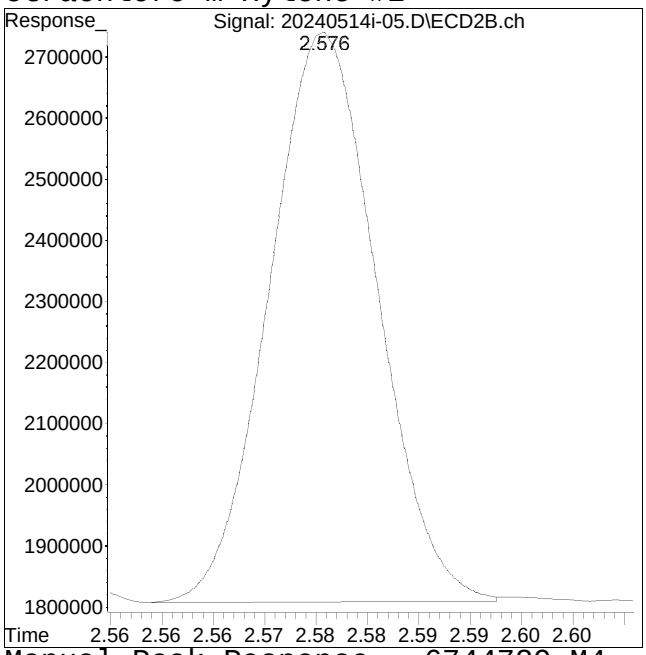
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 6766665



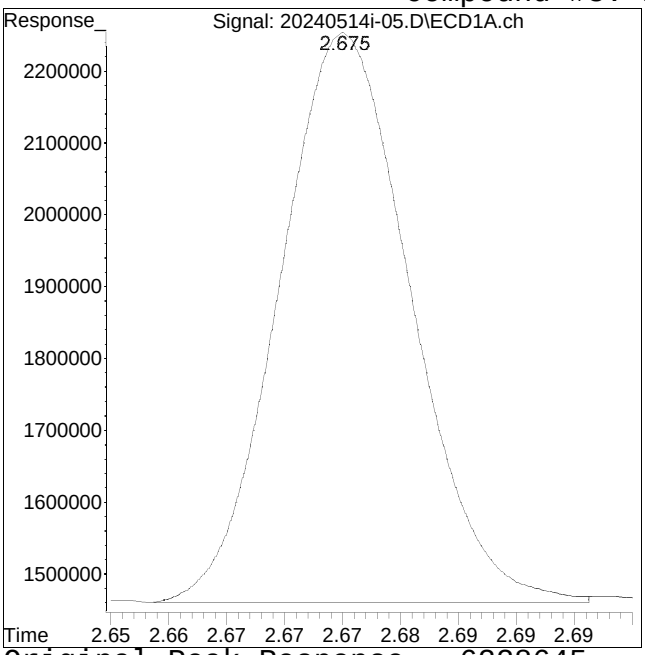
Manual Peak Response = 6744729 M4

M4 = Poor automated baseline construction.

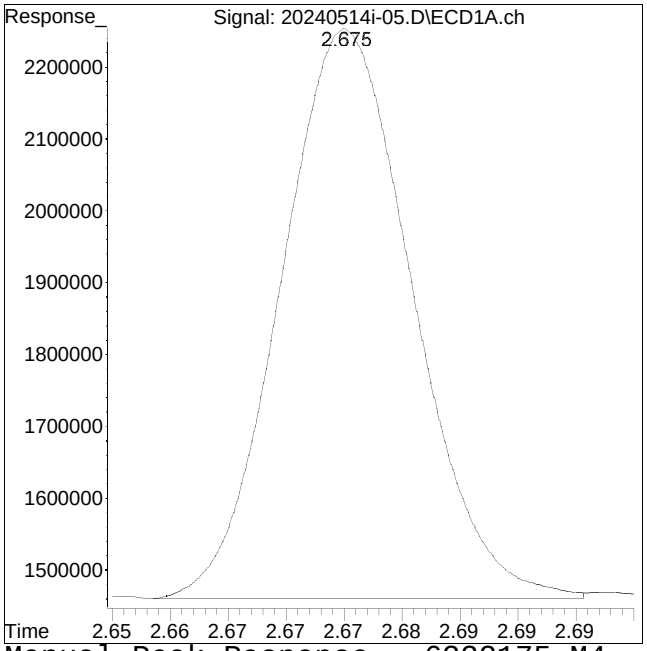
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #3: Hexachlorobenzene



Original Peak Response = 6228645



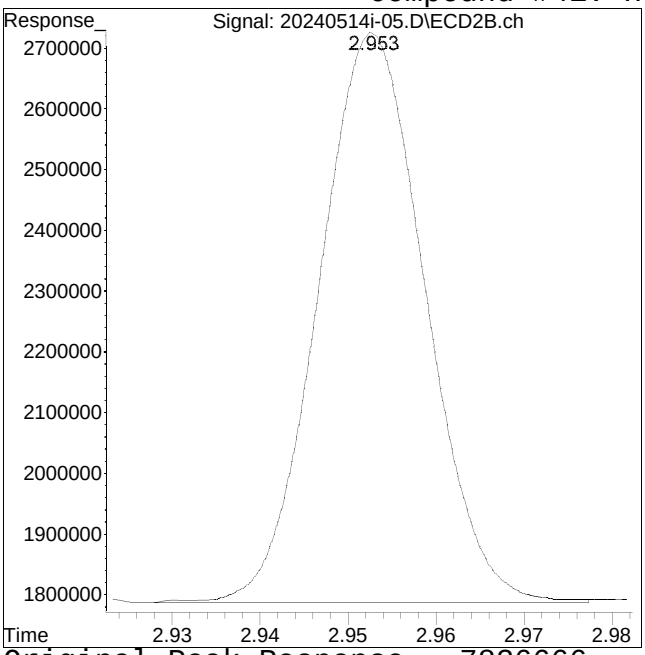
Manual Peak Response = 6222175 M4

M4 = Poor automated baseline construction.

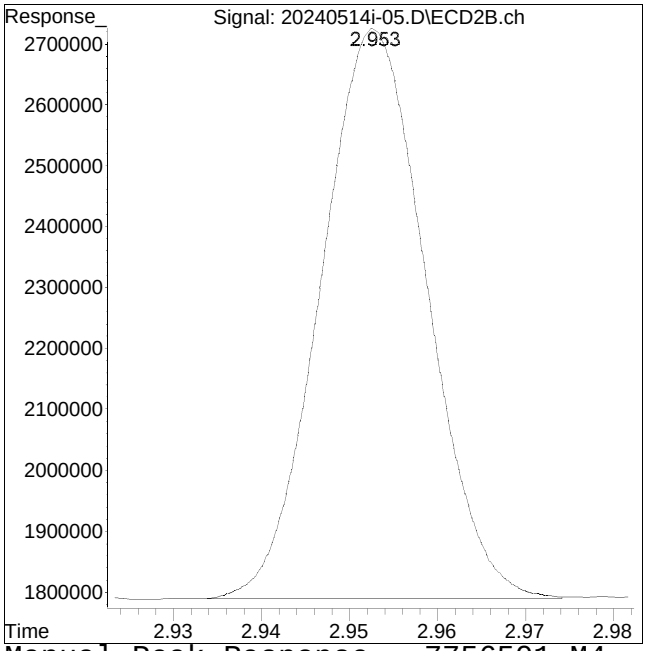
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #41: Hexachlorobenzene #2



Original Peak Response = 7836666



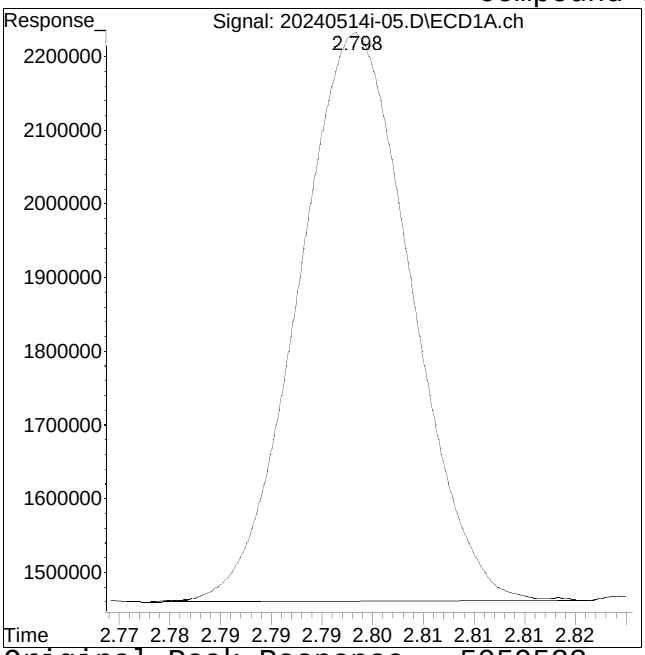
Manual Peak Response = 7756501 M4

M4 = Poor automated baseline construction.

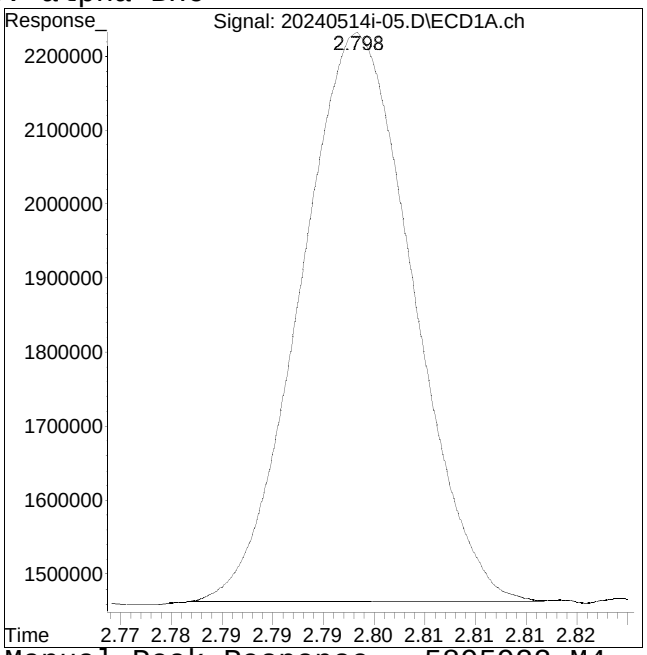
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #4: alpha-BHC



Original Peak Response = 5959523



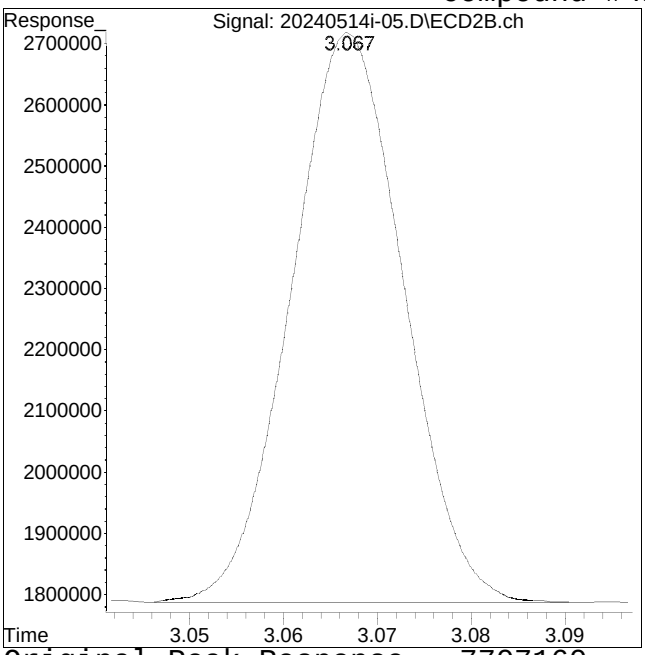
Manual Peak Response = 5895922 M4

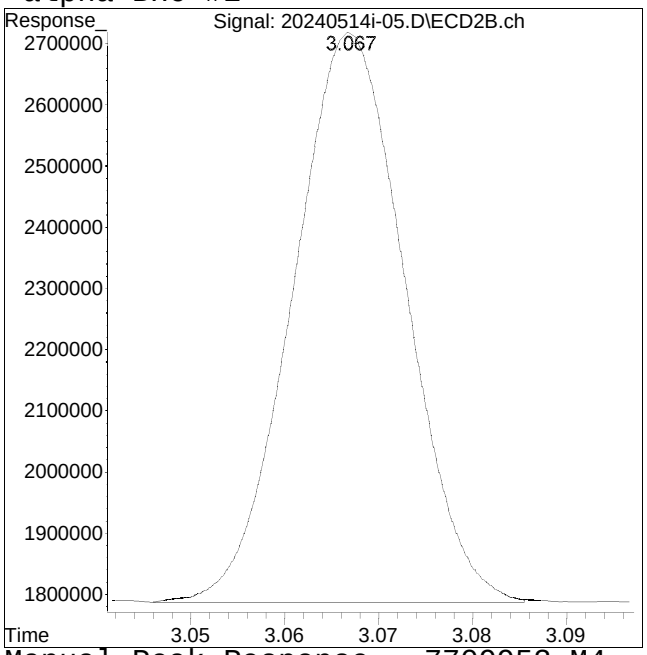
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #42: alpha-BHC #2



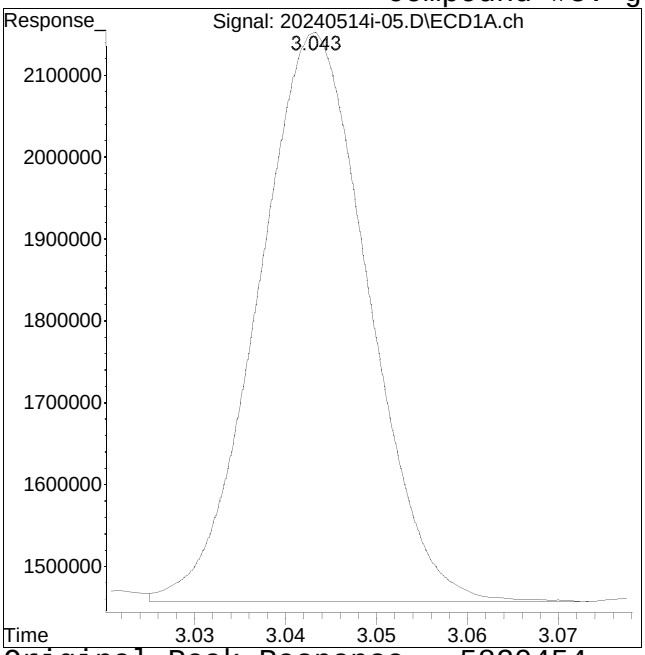


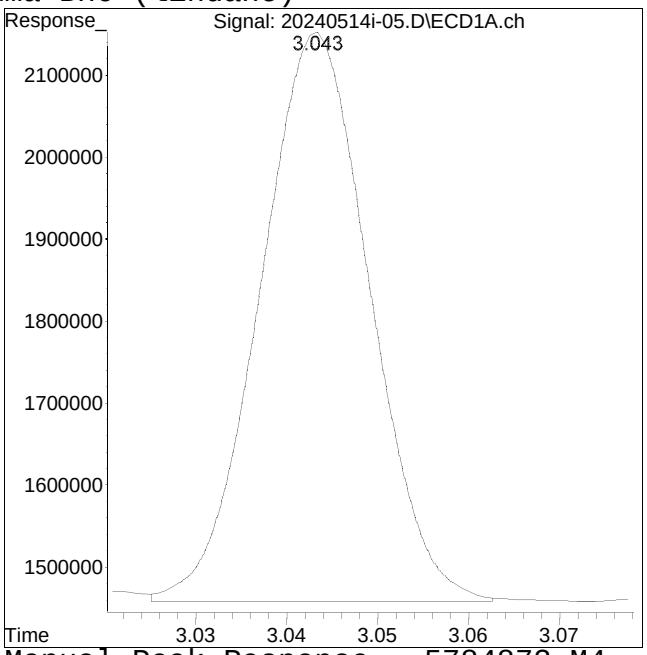
Original Peak Response = 7707160 Manual Peak Response = 7709953 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #5: gamma-BHC (lindane)



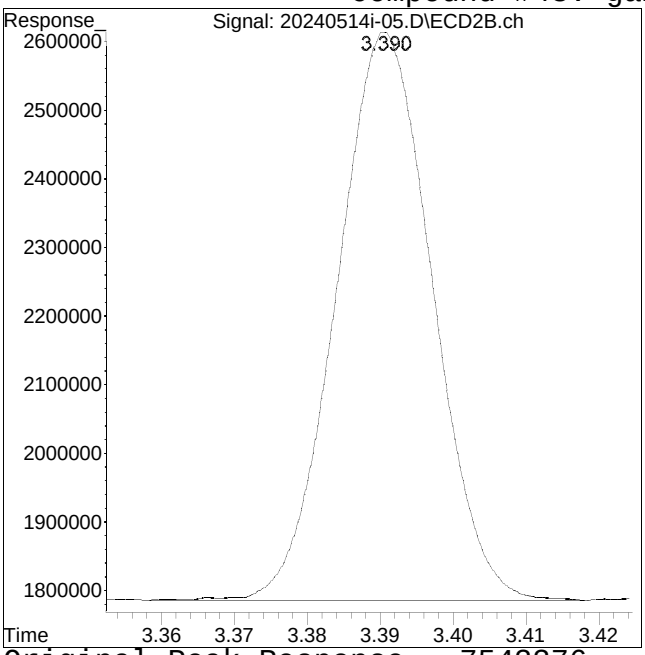


Original Peak Response = 5820454 Manual Peak Response = 5784873 M4
M4 = Poor automated baseline construction.

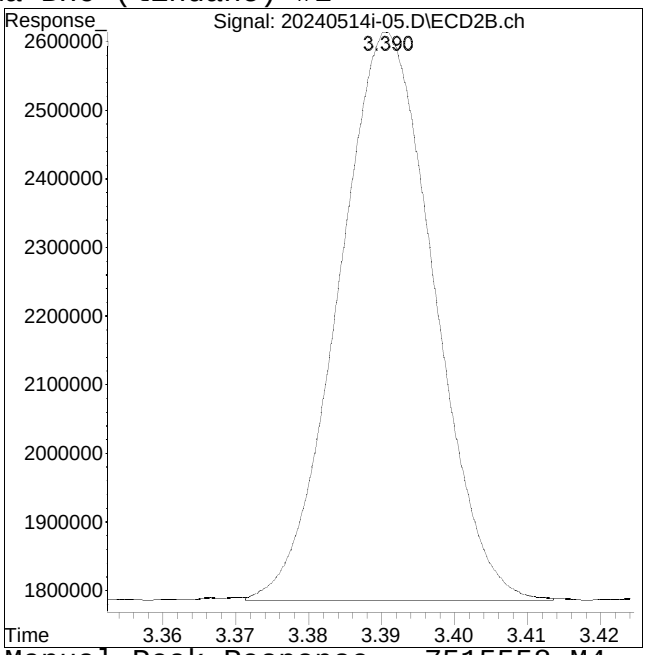
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 7543376



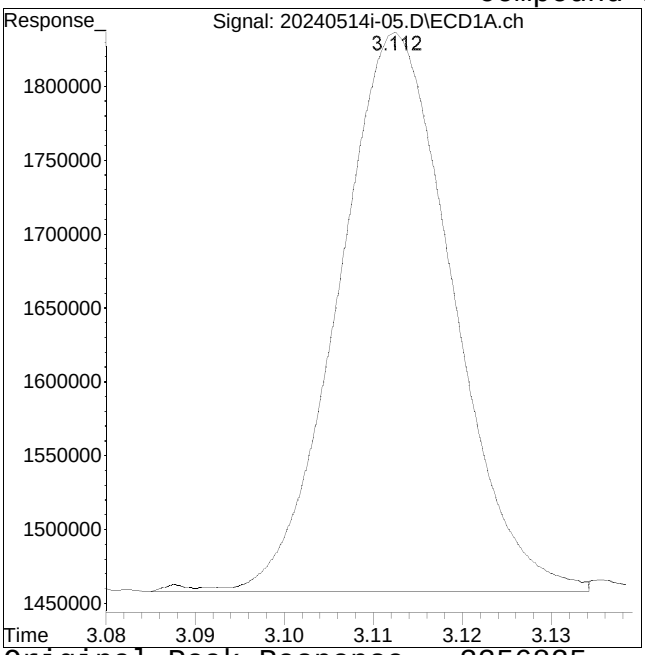
Manual Peak Response = 7515558 M4

M4 = Poor automated baseline construction.

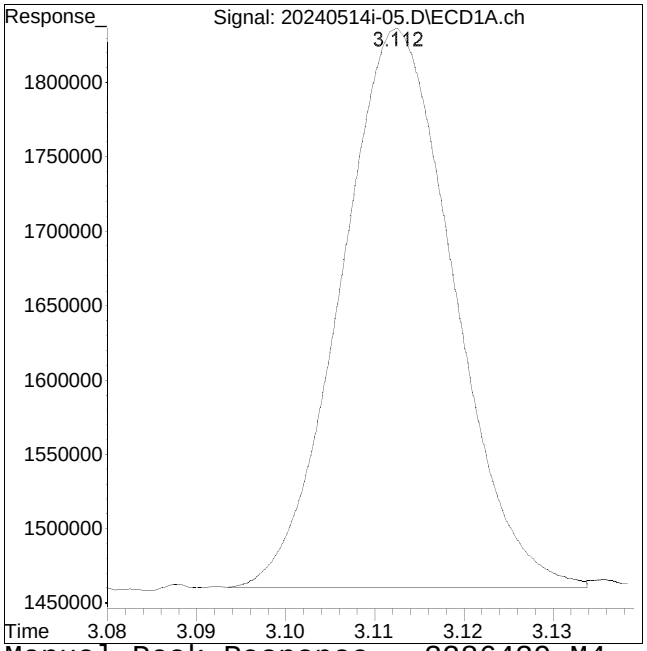
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #6: beta-BHC



Original Peak Response = 3356825



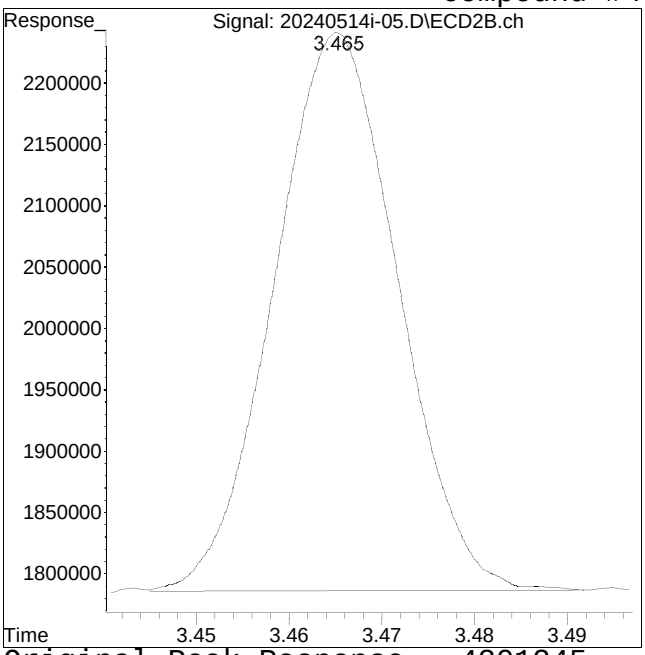
Manual Peak Response = 3286439 M4

M4 = Poor automated baseline construction.

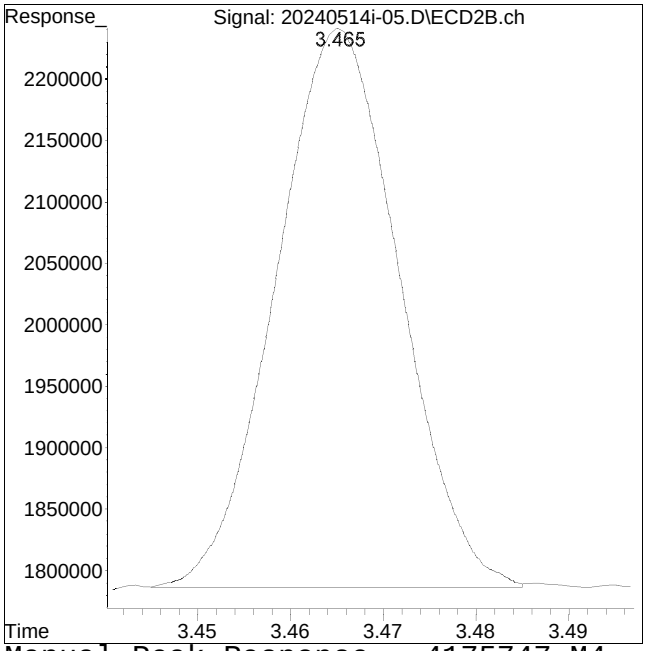
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #44: beta-BHC #2



Original Peak Response = 4201245



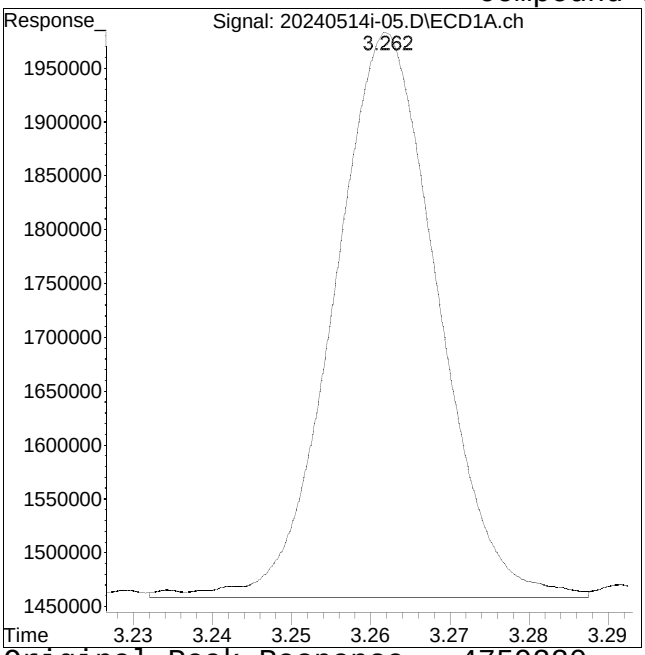
Manual Peak Response = 4175747 M4

M4 = Poor automated baseline construction.

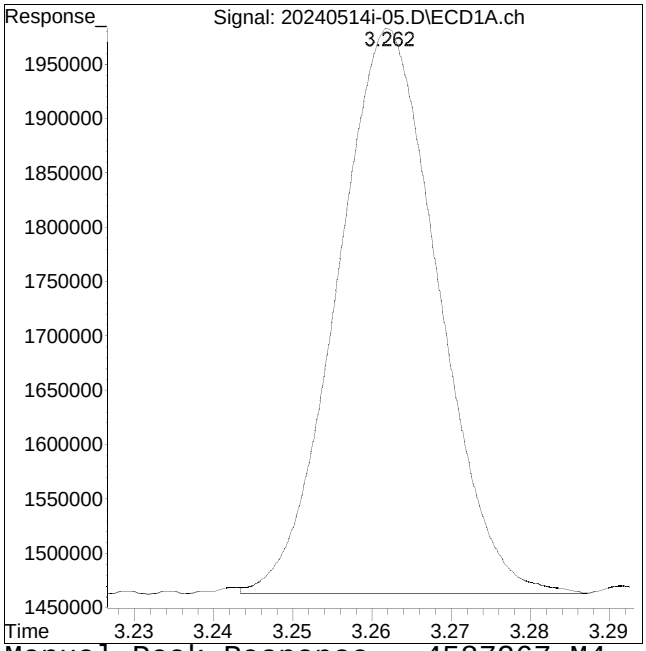
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #7: delta-BHC



Original Peak Response = 4759220



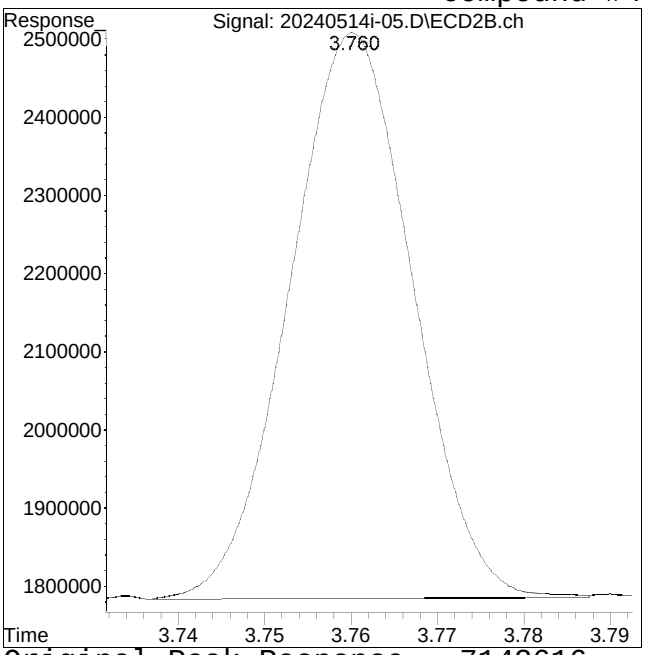
Manual Peak Response = 4587267 M4

M4 = Poor automated baseline construction.

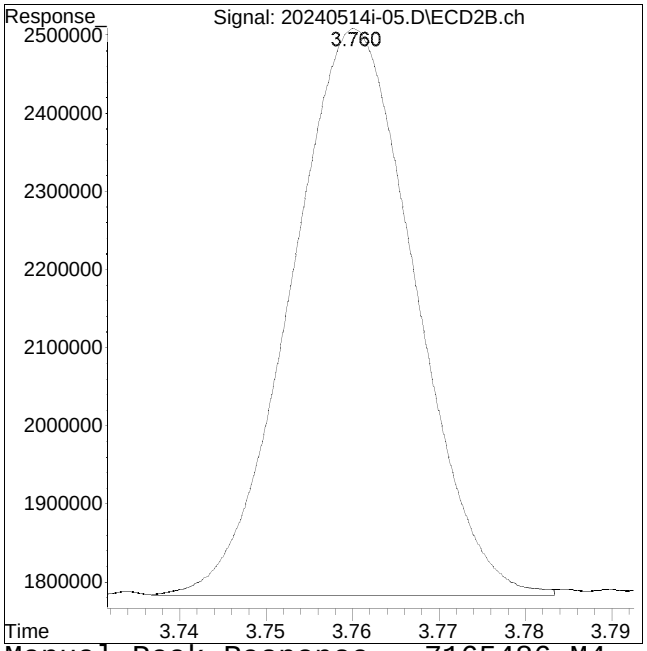
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #45: delta-BHC #2



Original Peak Response = 7142616



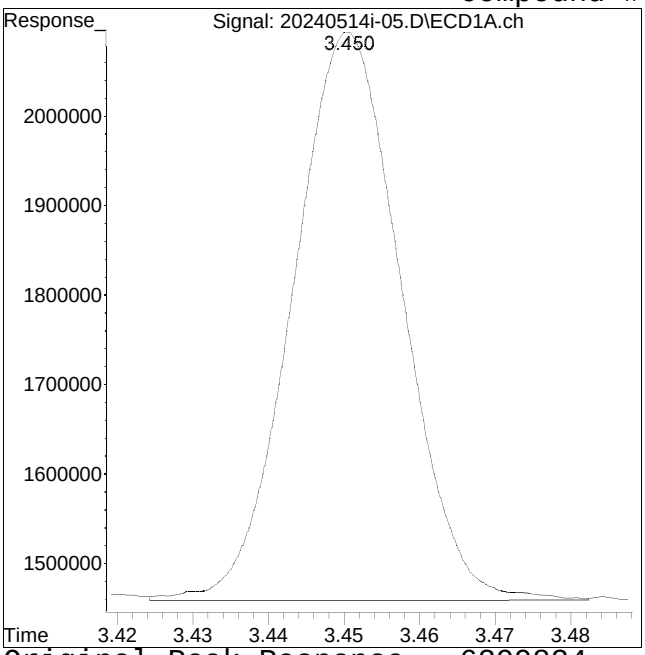
Manual Peak Response = 7165486 M4

M4 = Poor automated baseline construction.

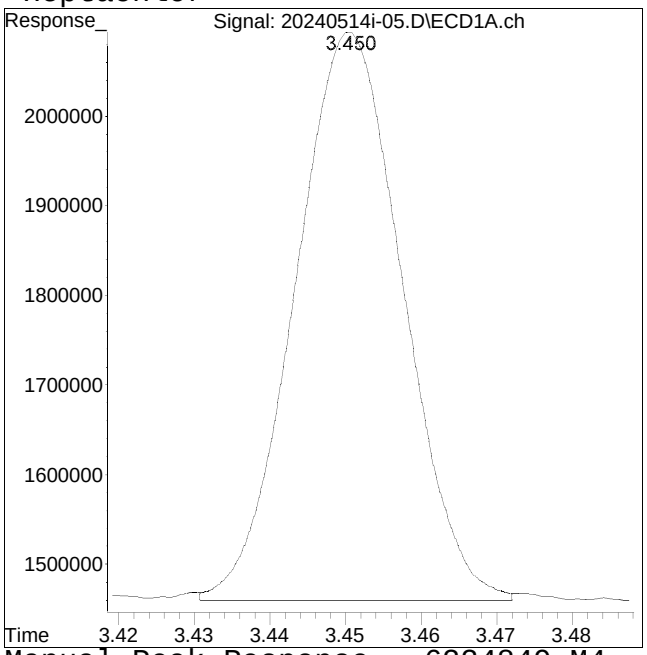
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #8: Heptachlor



Original Peak Response = 6299824



Manual Peak Response = 6224849 M4

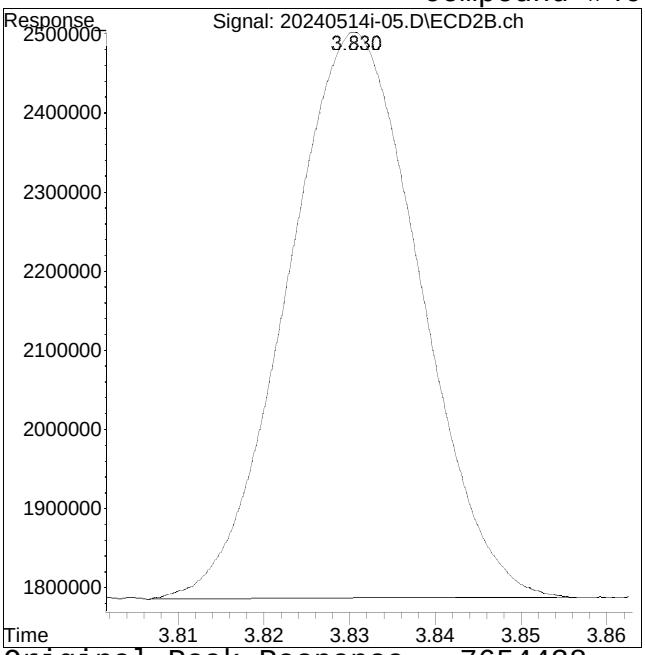
M4 = Poor automated baseline construction.

Manual Integration Report

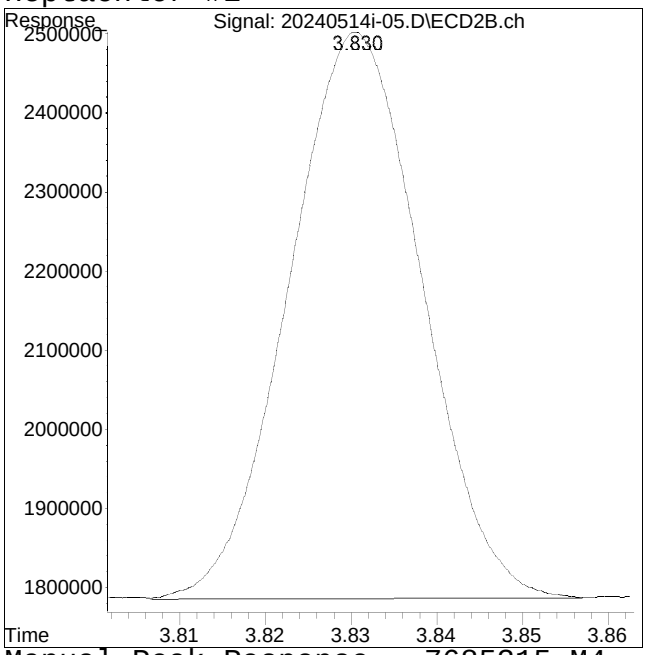
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-05.D
Date Inj'd : 5/14/2024 5:22 pm
Sample : il3pest,42e,,pp 11583 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 12:28 pm

Compound #46: Heptachlor #2



Original Peak Response = 7654438



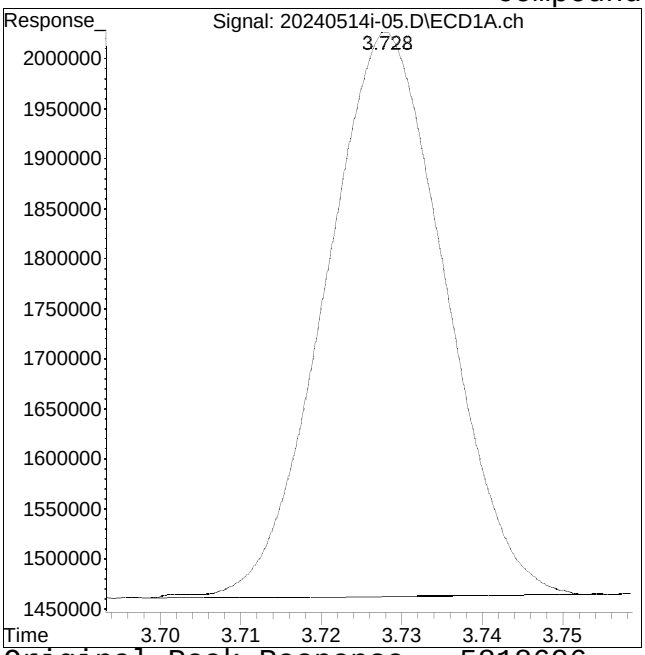
Manual Peak Response = 7685315 M4

M4 = Poor automated baseline construction.

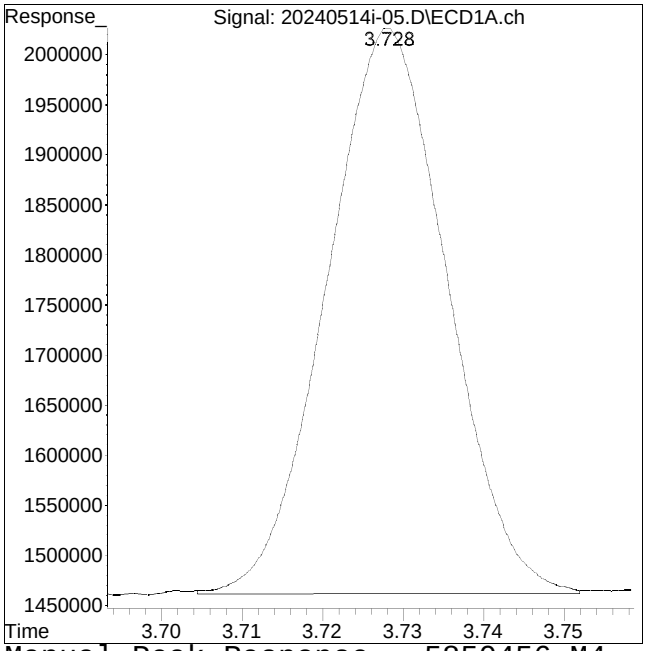
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #9: Aldrin



Original Peak Response = 5818696



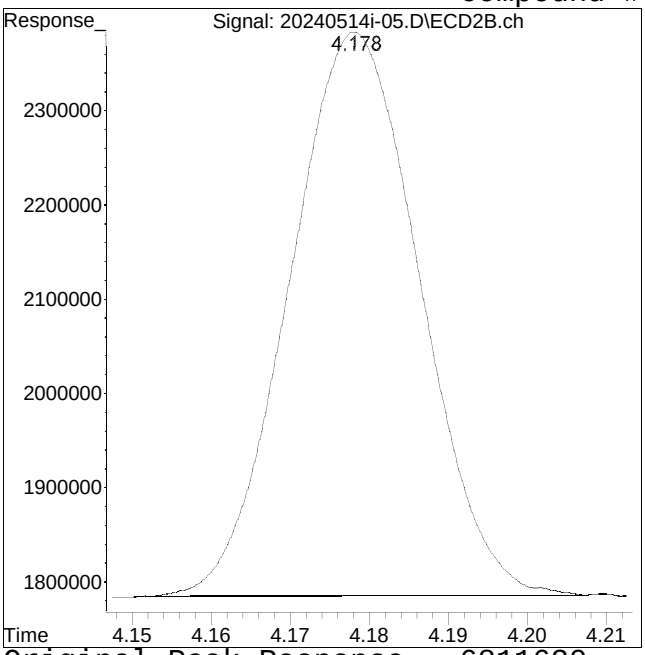
Manual Peak Response = 5850456 M4

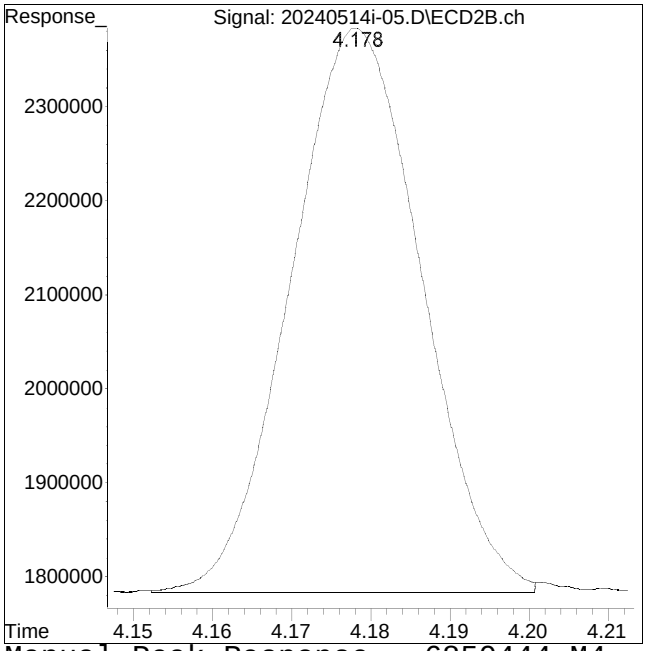
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #47: Aldrin #2



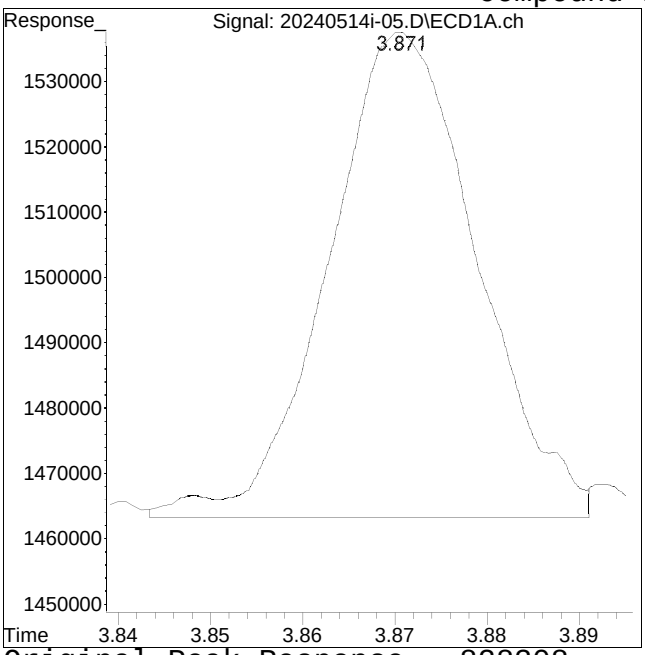


Original Peak Response = 6811620 Manual Peak Response = 6850444 M4
M4 = Poor automated baseline construction.

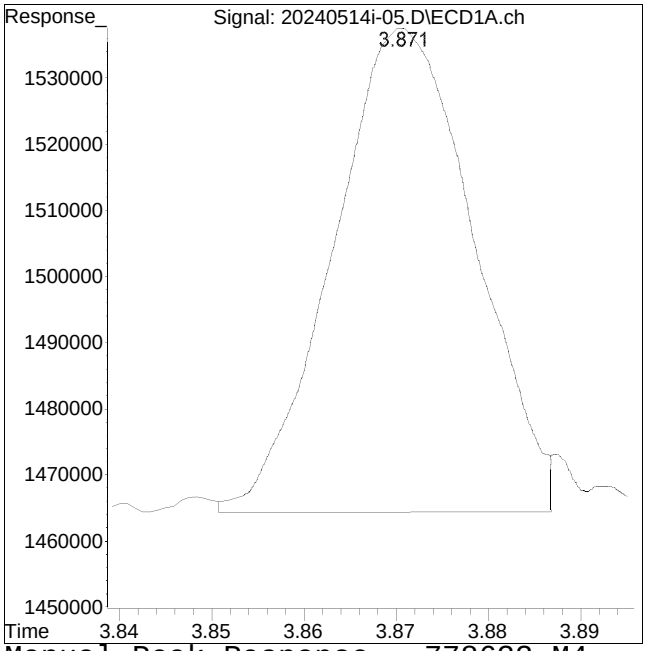
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #10: Alachlor



Original Peak Response = 828308



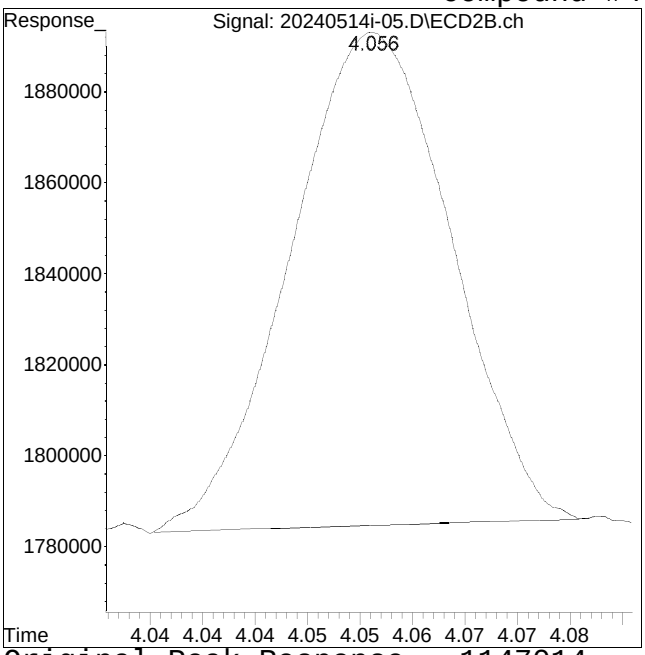
Manual Peak Response = 778633 M4

M4 = Poor automated baseline construction.

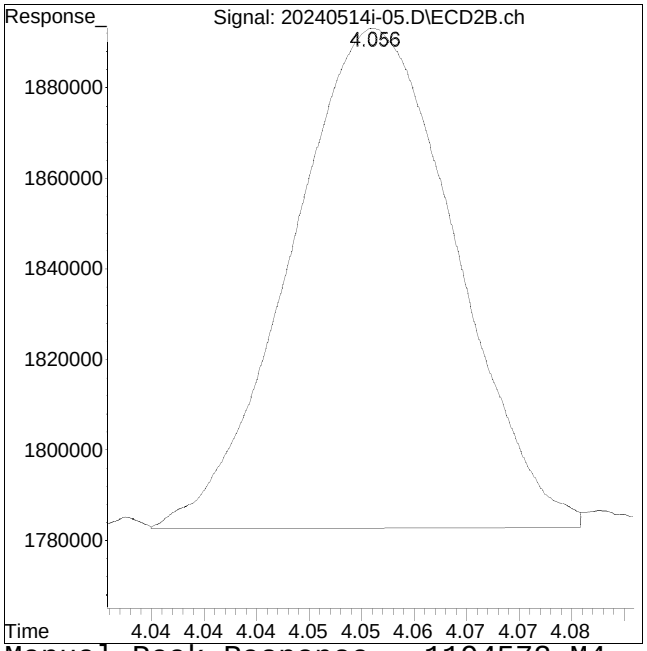
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #48: Alachlor #2



Original Peak Response = 1147014



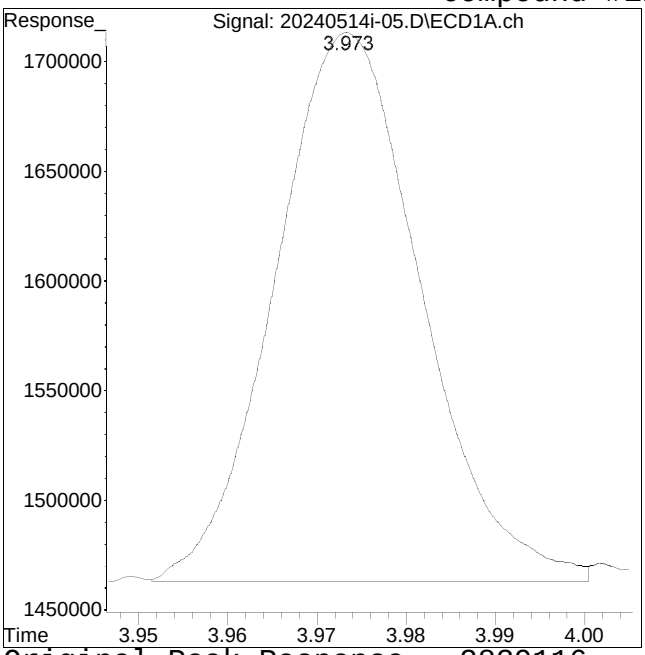
Manual Peak Response = 1194572 M4

M4 = Poor automated baseline construction.

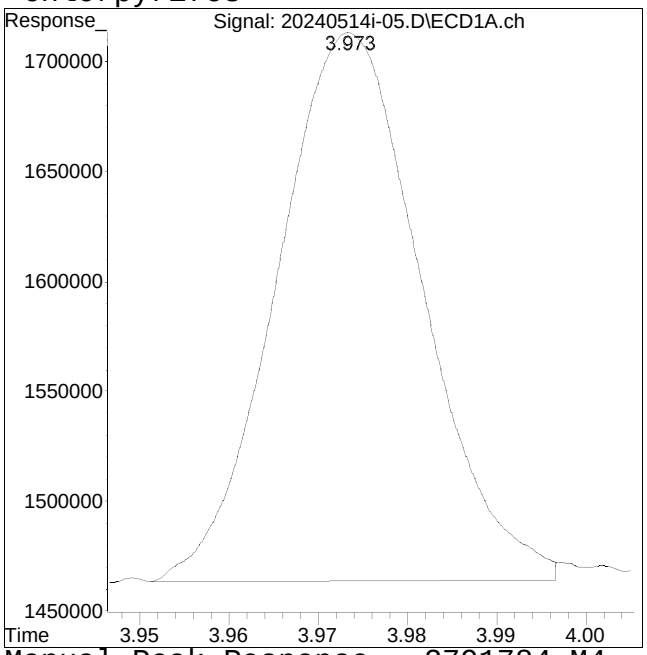
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #11: Chlorpyrifos



Original Peak Response = 2839116



Manual Peak Response = 2791784 M4

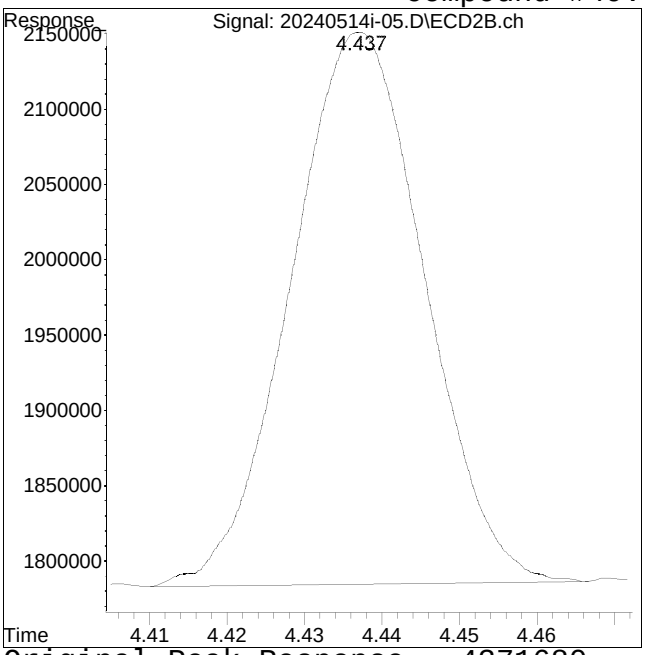
M4 = Poor automated baseline construction.

Manual Integration Report

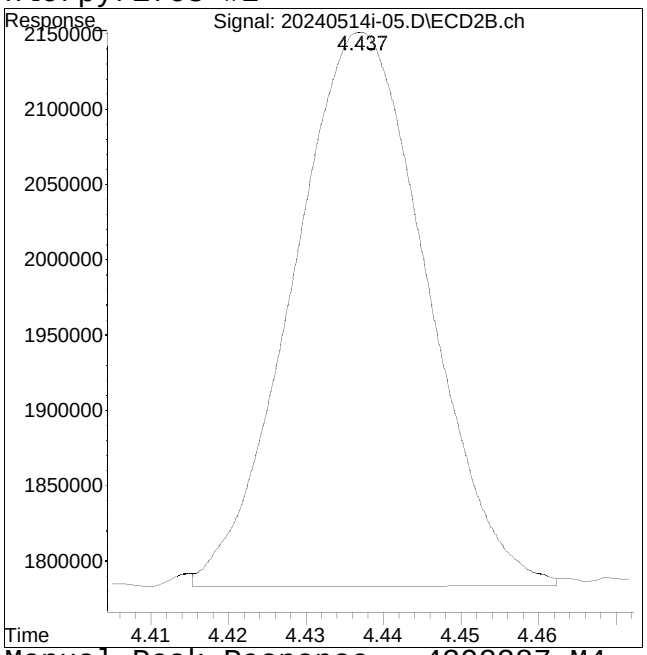
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-05.D
Date Inj'd : 5/14/2024 5:22 pm
Sample : il3pest,42e,,pp 11583 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 12:28 pm

Compound #49: Chlorpyrifos #2



Original Peak Response = 4371680



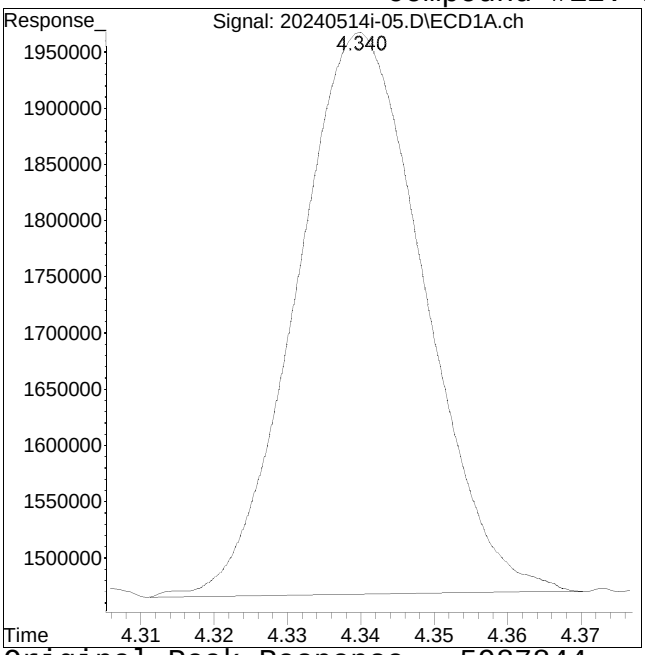
Manual Peak Response = 4393287 M4

M4 = Poor automated baseline construction.

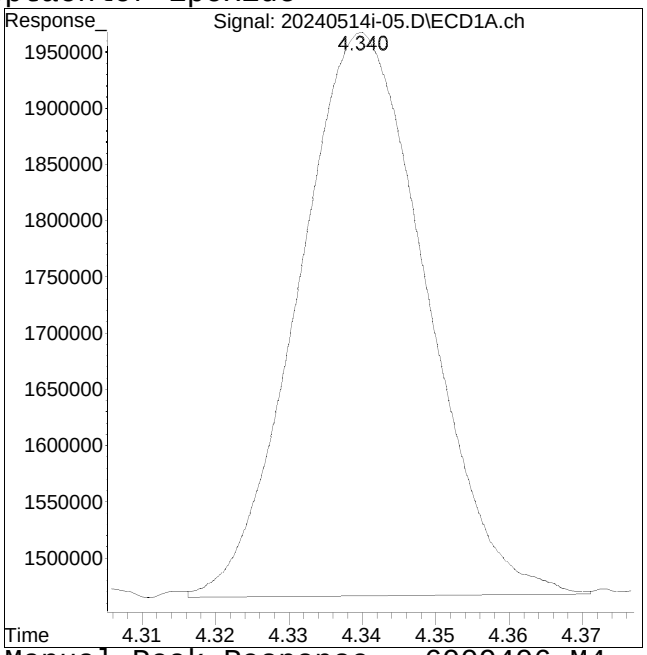
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #12: Heptachlor Epoxide



Original Peak Response = 5987844



Manual Peak Response = 6009406 M4

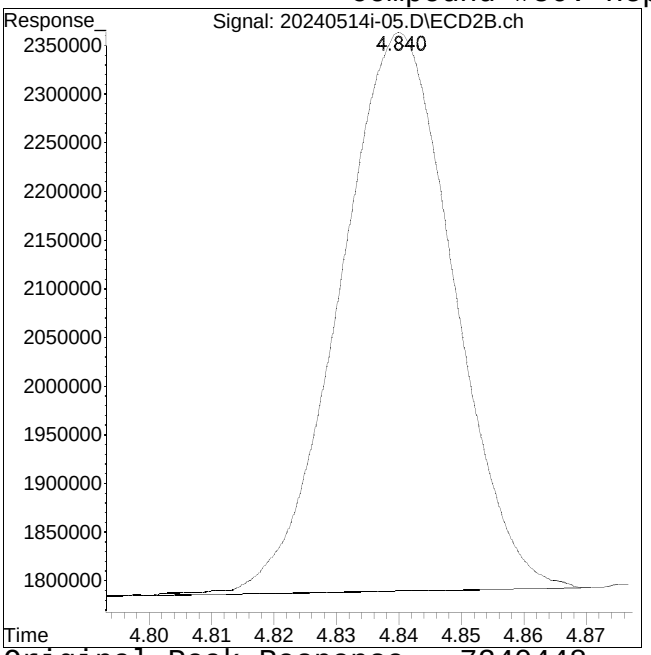
M4 = Poor automated baseline construction.

Manual Integration Report

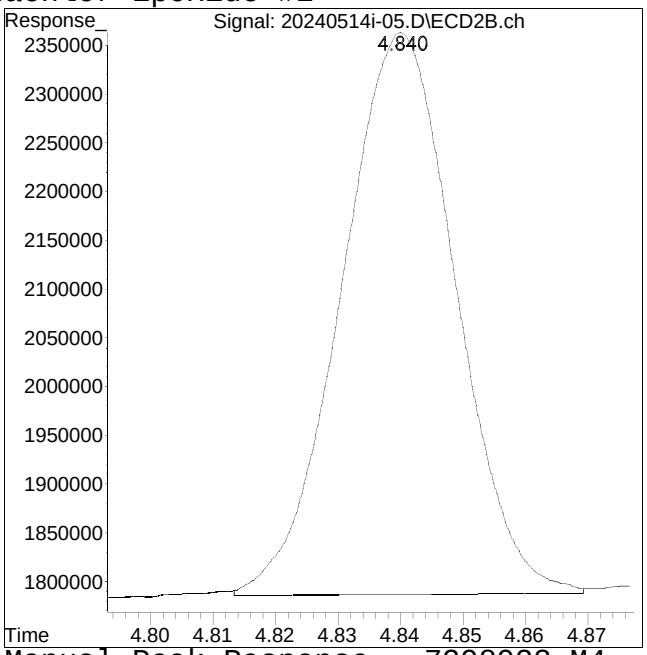
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-05.D
Date Inj'd : 5/14/2024 5:22 pm
Sample : il3pest,42e,,pp 11583 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 12:28 pm

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 7240448



Manual Peak Response = 7298923 M4

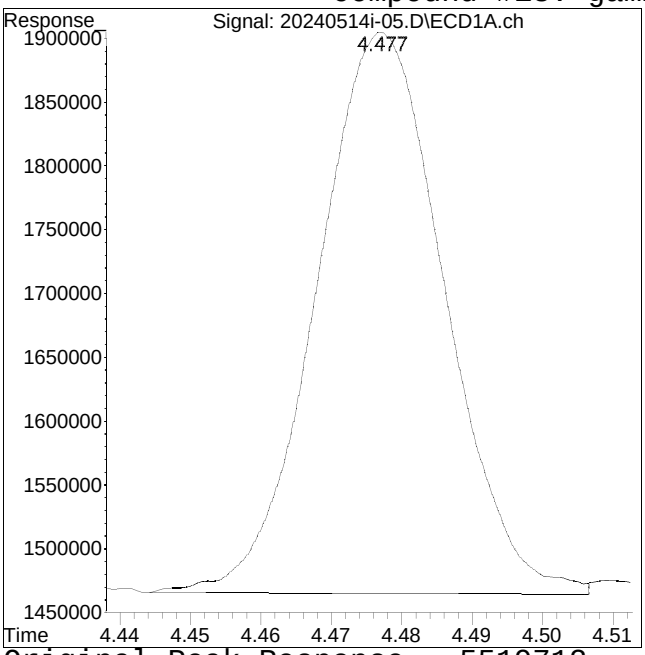
M4 = Poor automated baseline construction.

Manual Integration Report

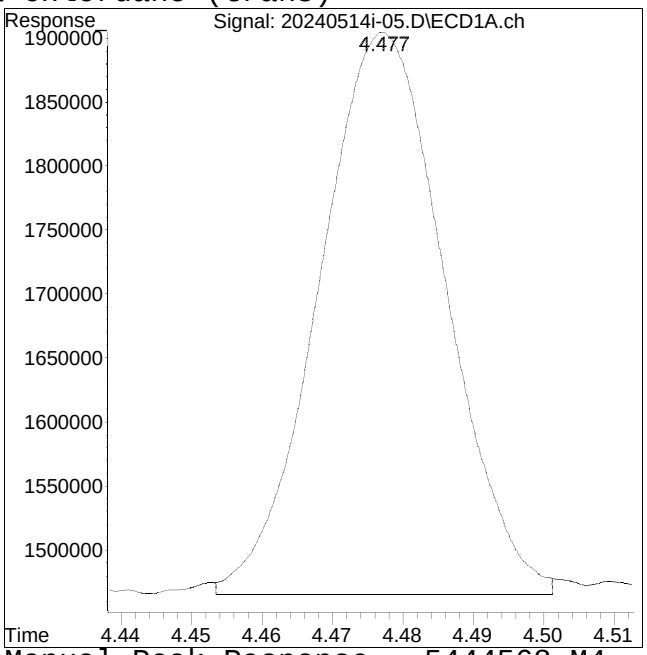
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-05.D
Date Inj'd : 5/14/2024 5:22 pm
Sample : il3pest,42e,,pp 11583 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 12:28 pm

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 5519712



Manual Peak Response = 5444568 M4

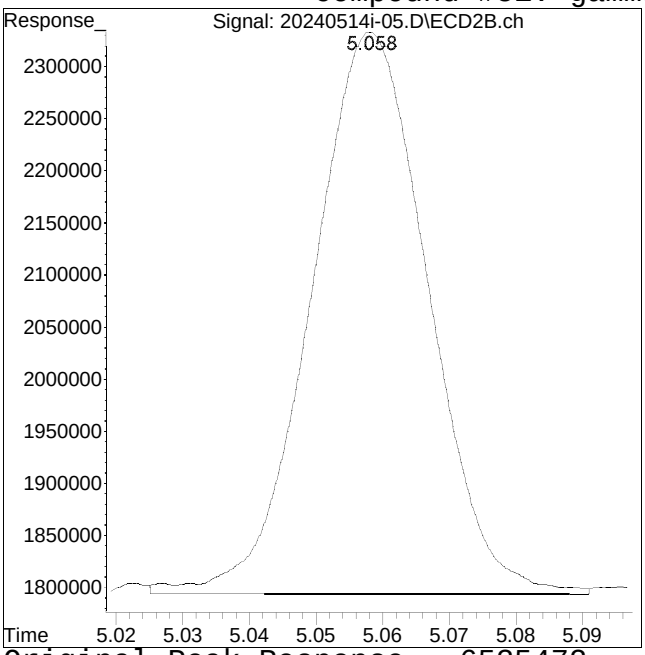
M4 = Poor automated baseline construction.

Manual Integration Report

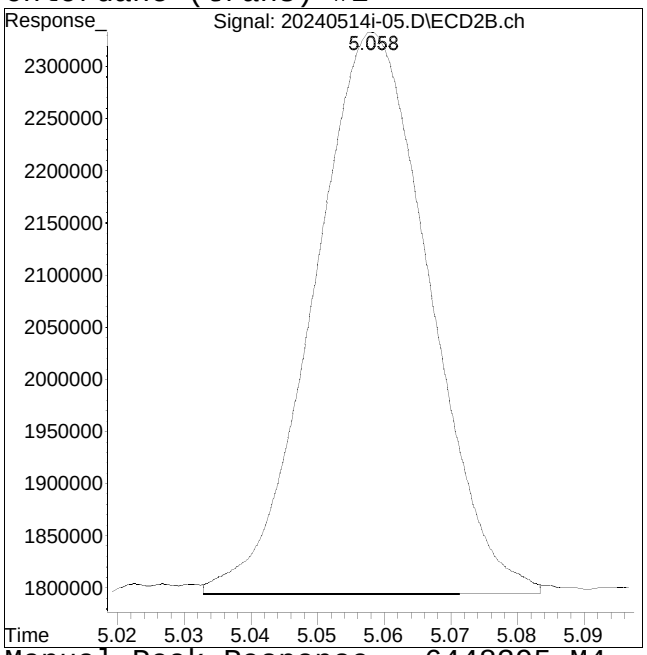
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-05.D
Date Inj'd : 5/14/2024 5:22 pm
Sample : il3pest,42e,,pp 11583 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 12:28 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 6535472



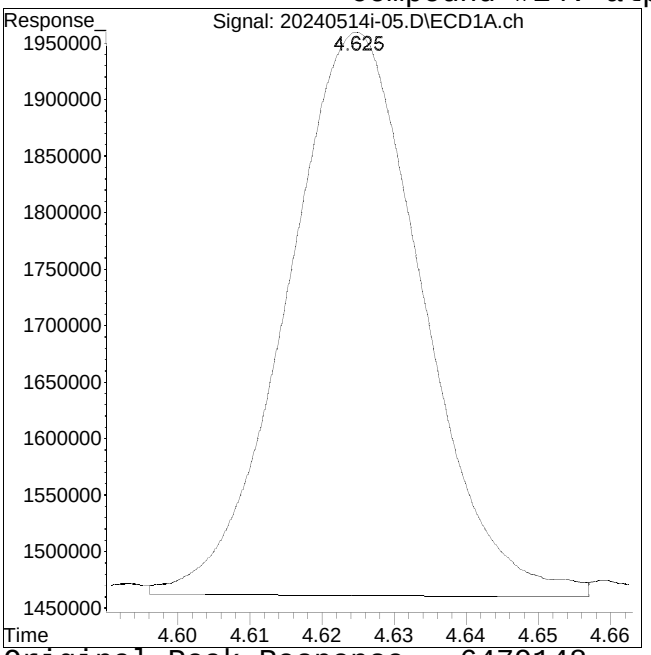
Manual Peak Response = 6448395 M4

M4 = Poor automated baseline construction.

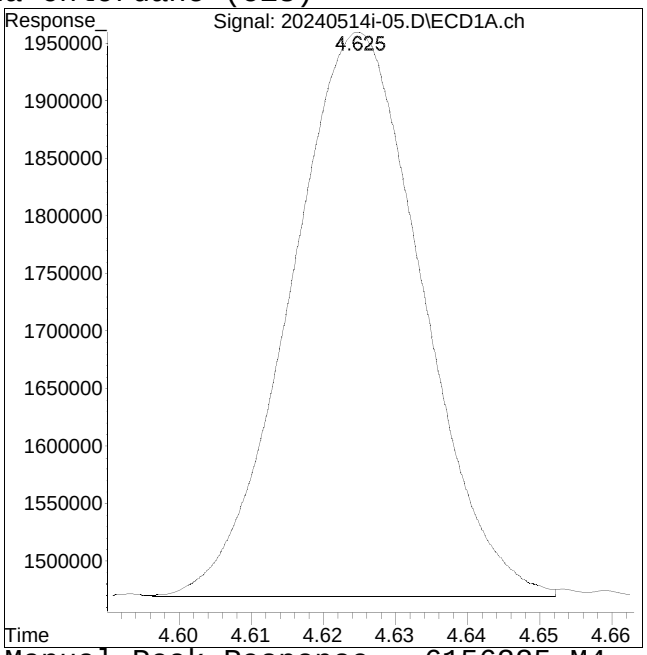
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 6479148



Manual Peak Response = 6156225 M4

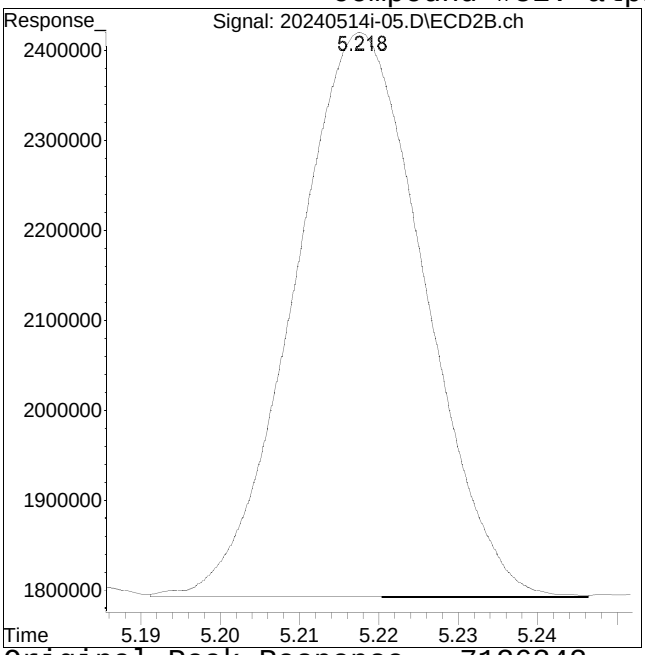
M4 = Poor automated baseline construction.

Manual Integration Report

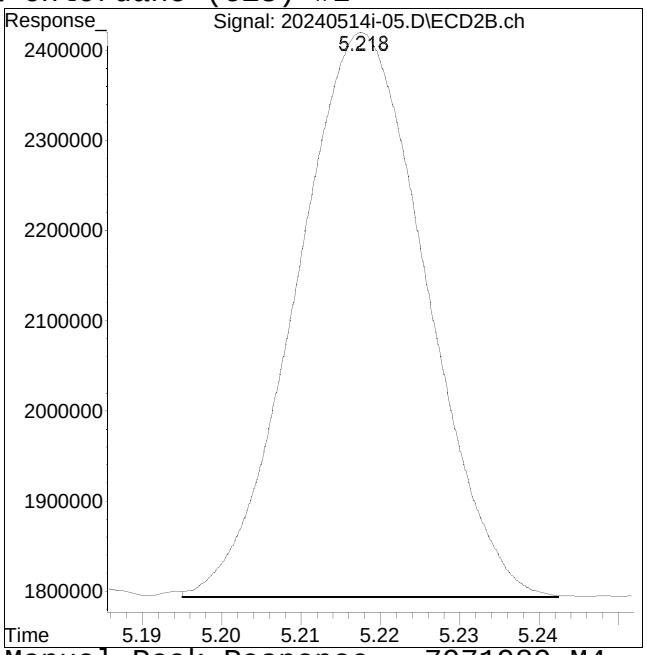
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-05.D
Date Inj'd : 5/14/2024 5:22 pm
Sample : il3pest,42e,,pp 11583 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 12:28 pm

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 7126242



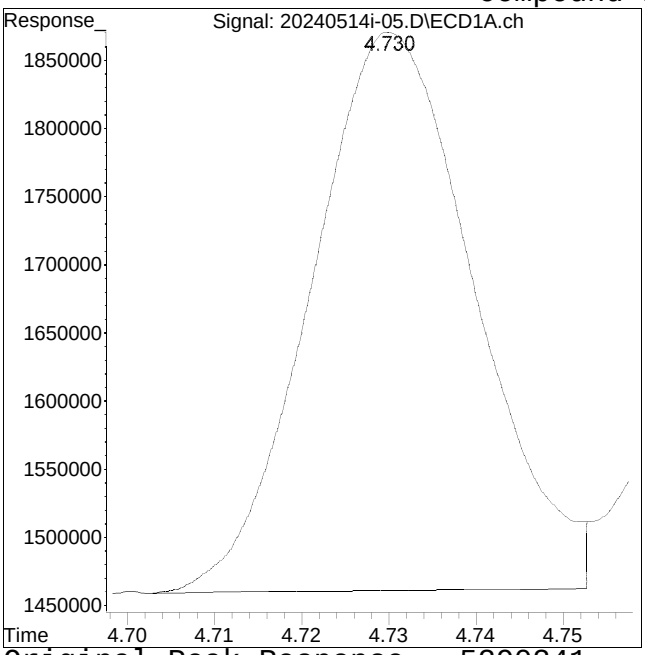
Manual Peak Response = 7071989 M4

M4 = Poor automated baseline construction.

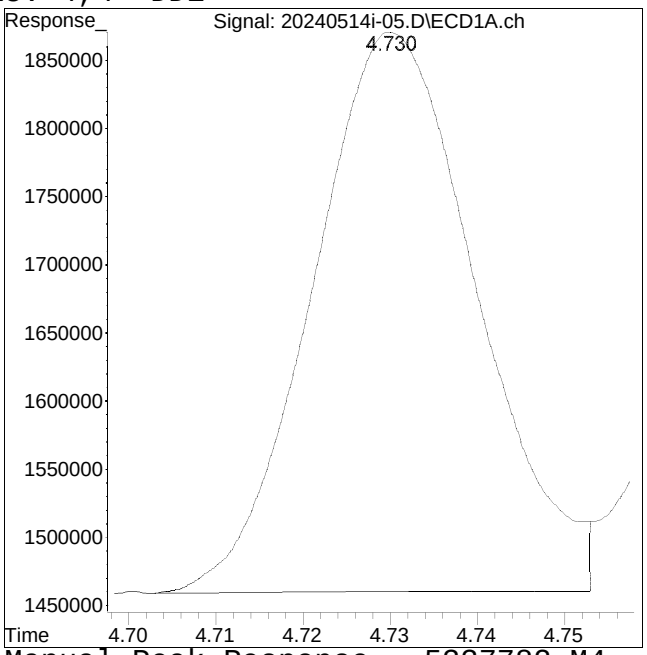
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #15: 4,4'-DDE



Original Peak Response = 5290241



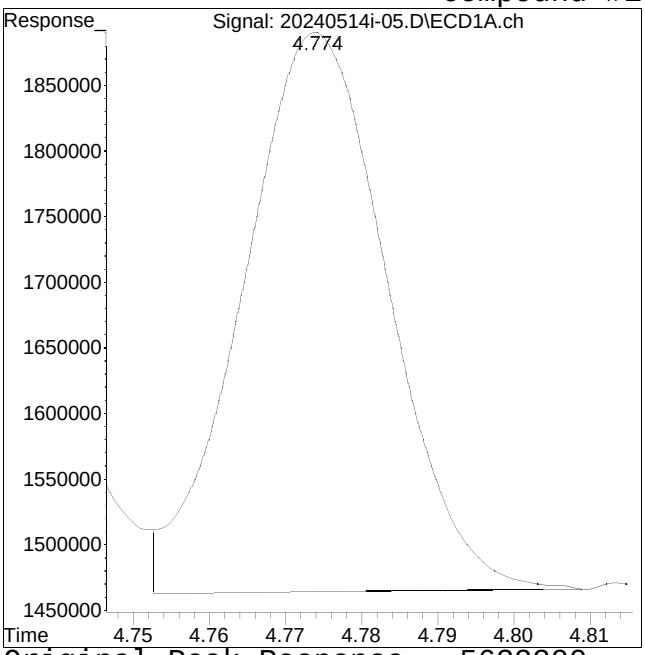
Manual Peak Response = 5337782 M4

M4 = Poor automated baseline construction.

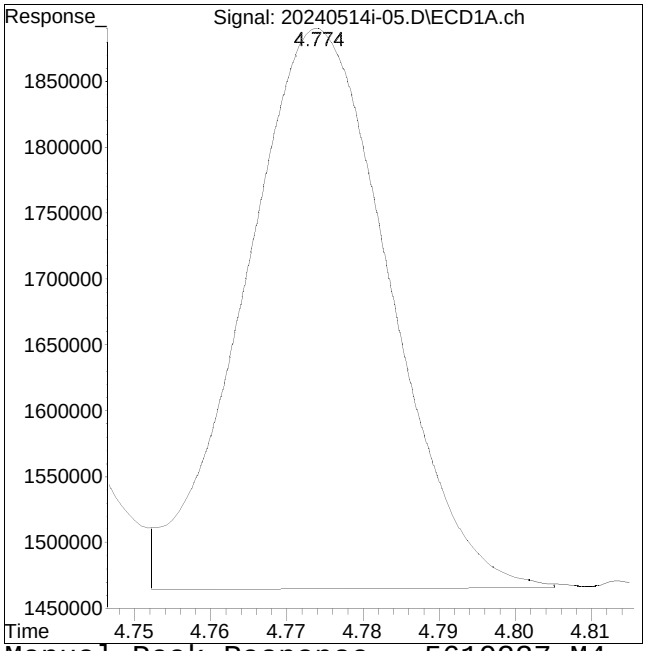
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #16: Endosulfan I



Original Peak Response = 5632200



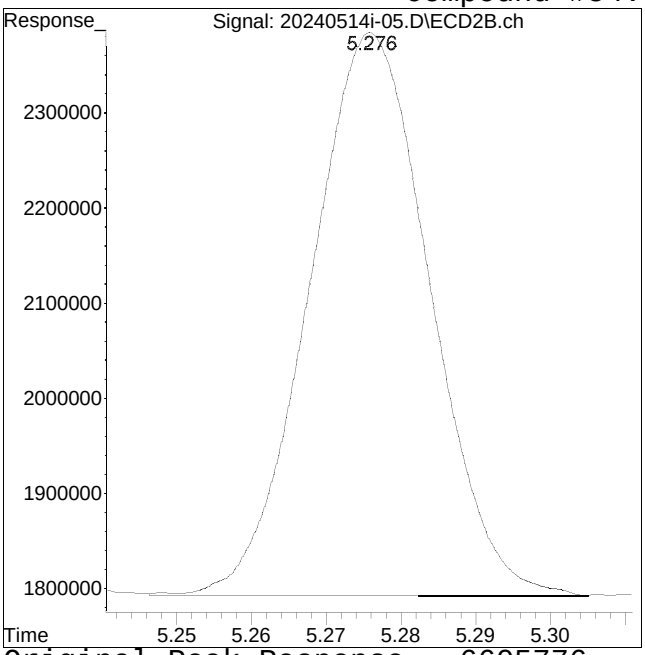
Manual Peak Response = 5610237 M4

M4 = Poor automated baseline construction.

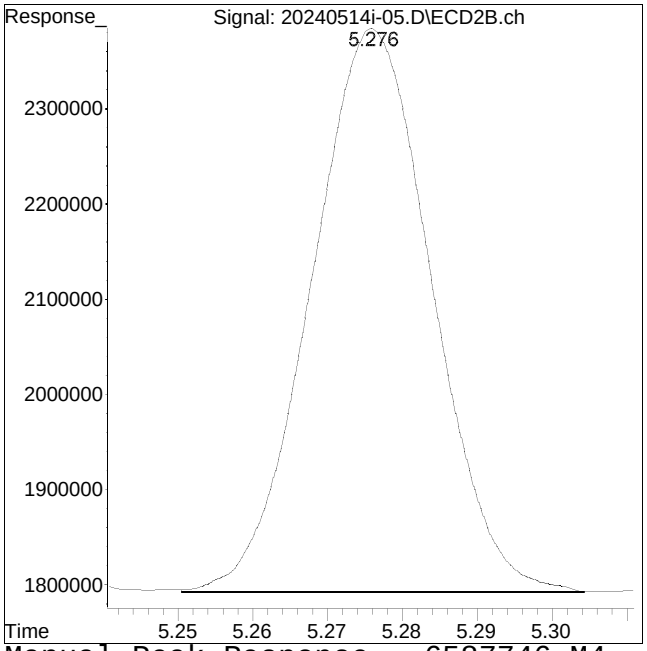
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-05.D
Date Inj'd : 5/14/2024 5:22 pm
Sample : il3pest,42e,,pp 11583 L0.0
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 12:28 pm

Compound #54: Endosulfan I #2



Original Peak Response = 6605776



Manual Peak Response = 6587746 M4

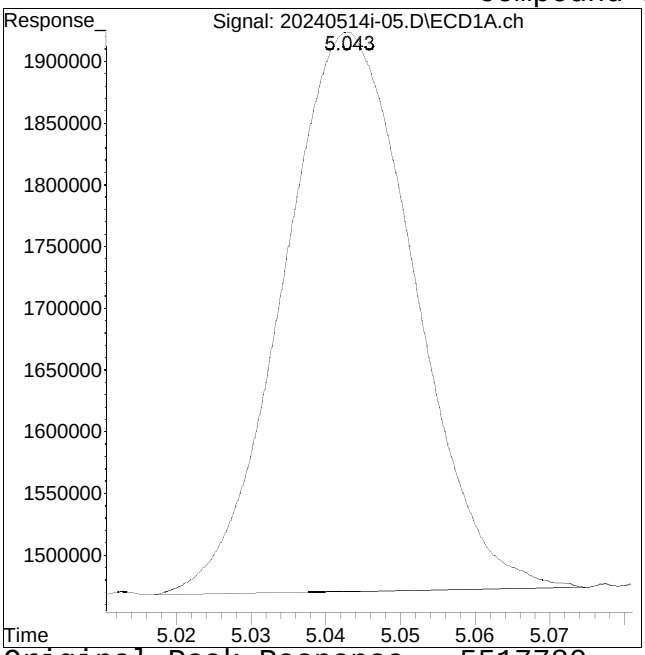
M4 = Poor automated baseline construction.

Manual Integration Report

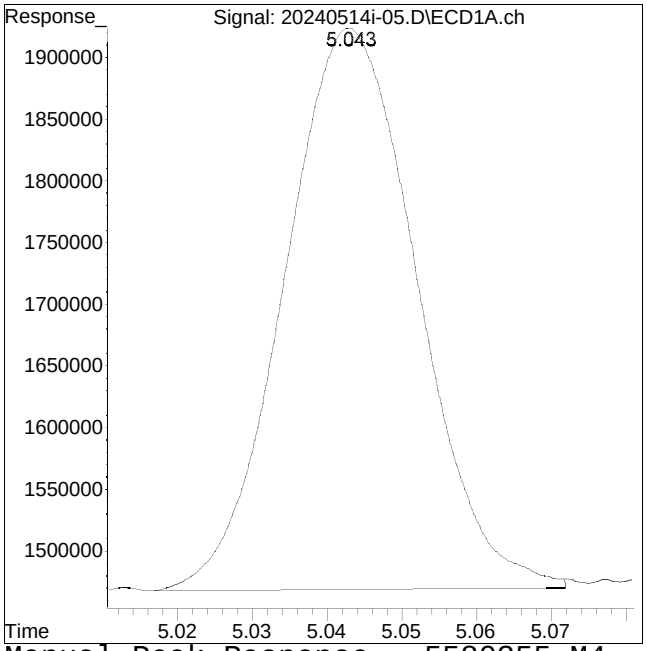
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-05.D
Date Inj'd : 5/14/2024 5:22 pm
Sample : il3pest,42e,,pp 11583 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 12:28 pm

Compound #17: Dieldrin



Original Peak Response = 5517780



Manual Peak Response = 5580355 M4

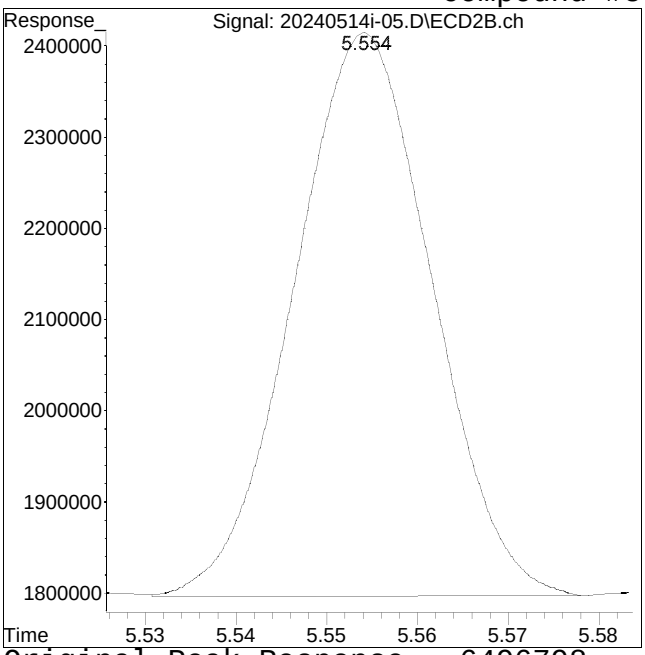
M4 = Poor automated baseline construction.

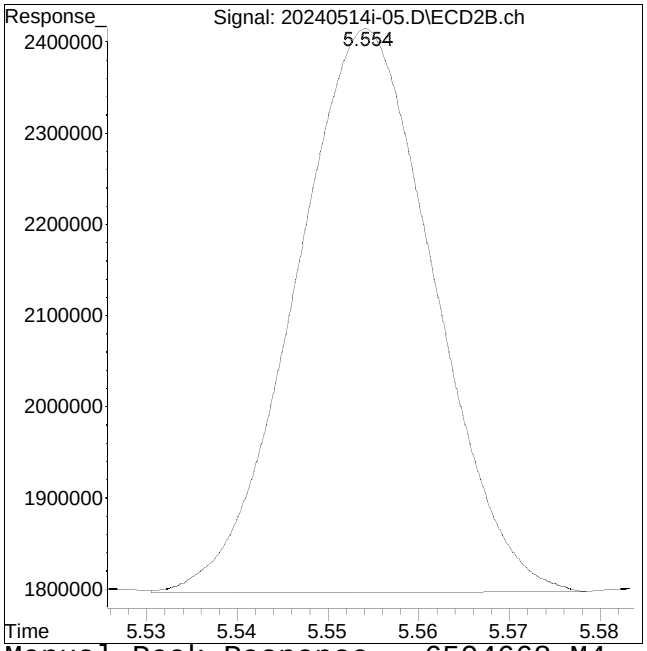
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-05.D
Date Inj'd : 5/14/2024 5:22 pm
Sample : il3pest,42e,,pp 11583 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 12:28 pm

Compound #55: Dieldrin #2



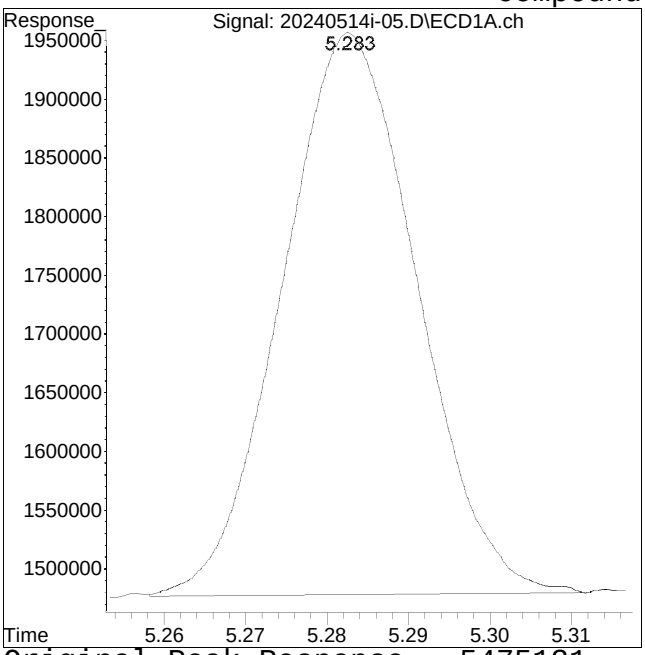


Original Peak Response = 6496798 Manual Peak Response = 6504668 M4
M4 = Poor automated baseline construction.

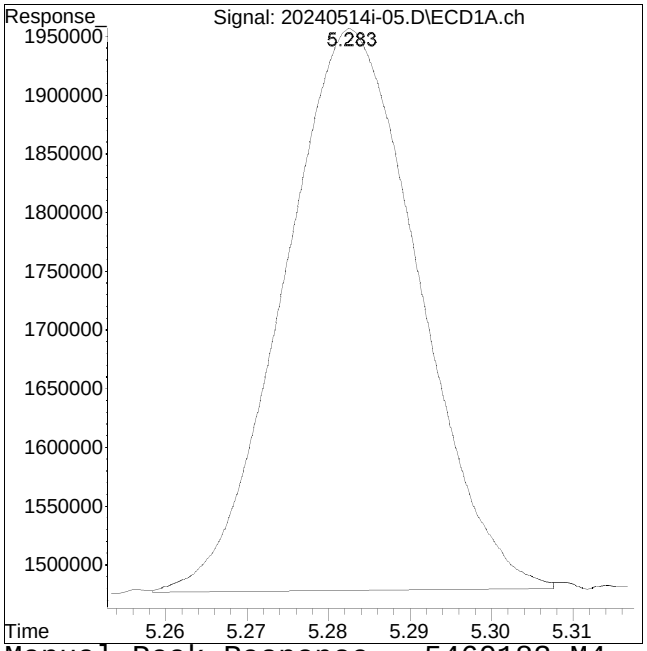
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #18: Endrin



Original Peak Response = 5475131



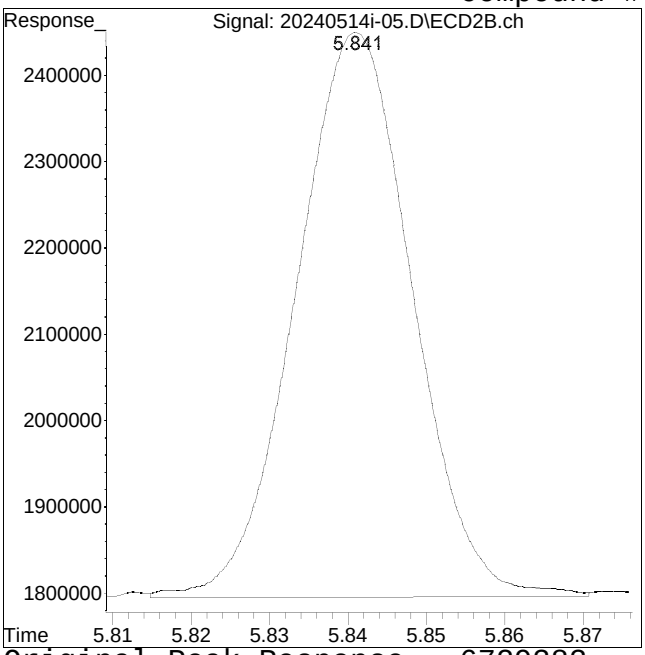
Manual Peak Response = 5460183 M4

M4 = Poor automated baseline construction.

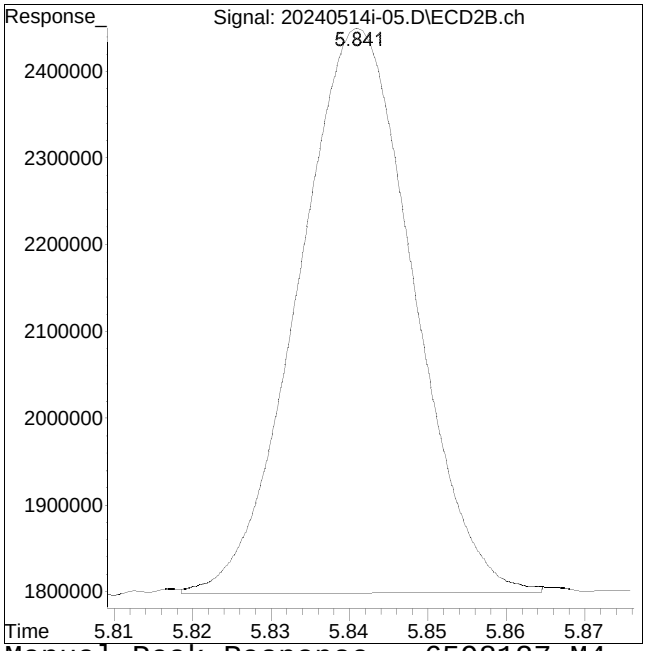
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #56: Endrin #2



Original Peak Response = 6729383



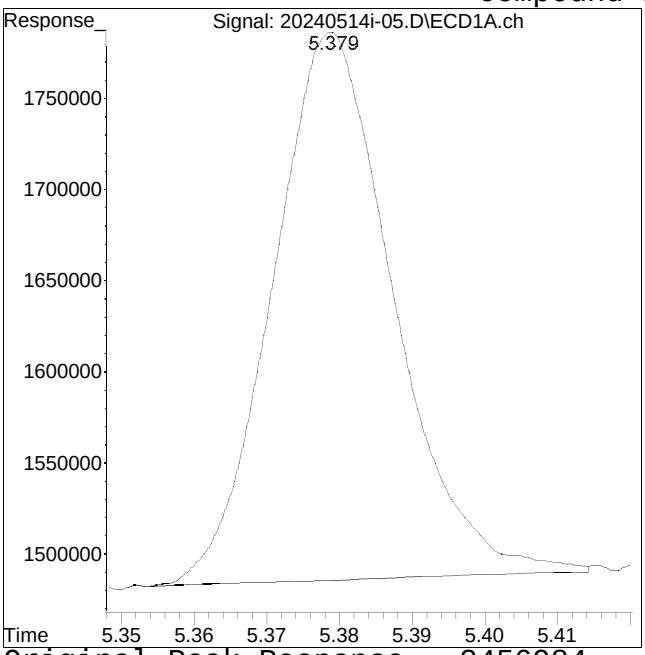
Manual Peak Response = 6598127 M4

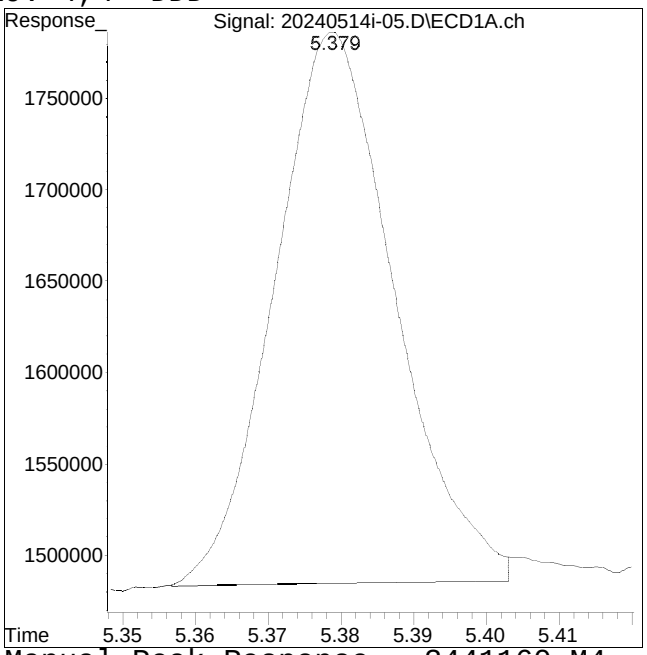
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #19: 4,4'-DDD



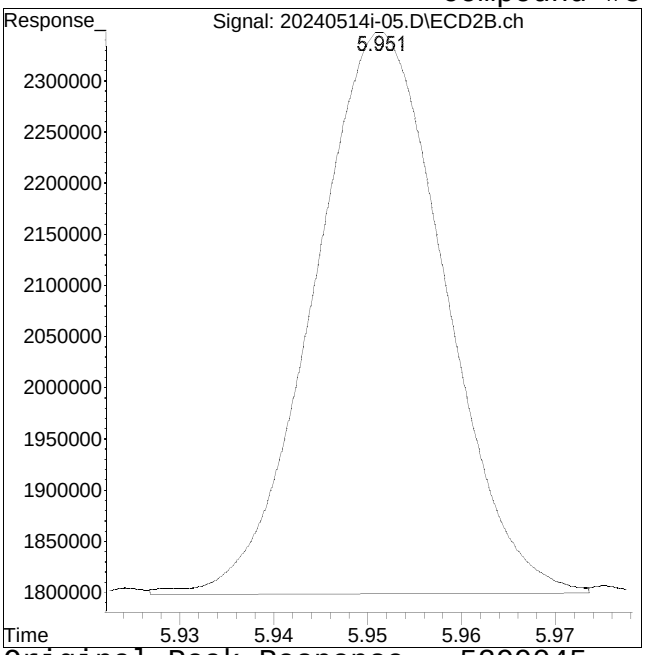


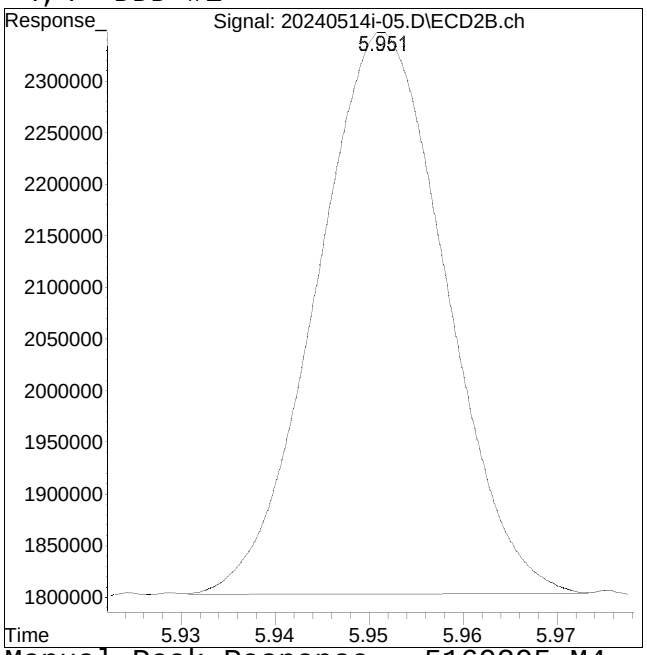
Original Peak Response = 3456984 Manual Peak Response = 3441160 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #57: 4,4'-DDD #2



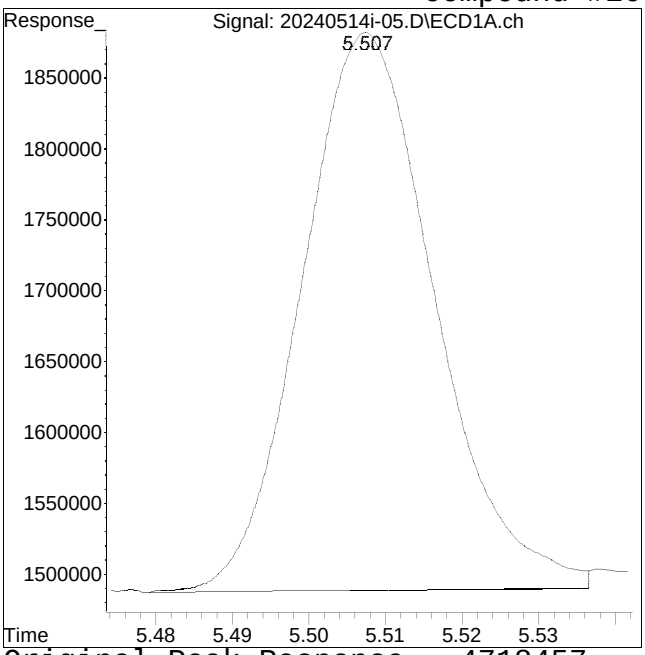


Original Peak Response = 5299045 Manual Peak Response = 5169295 M4
M4 = Poor automated baseline construction.

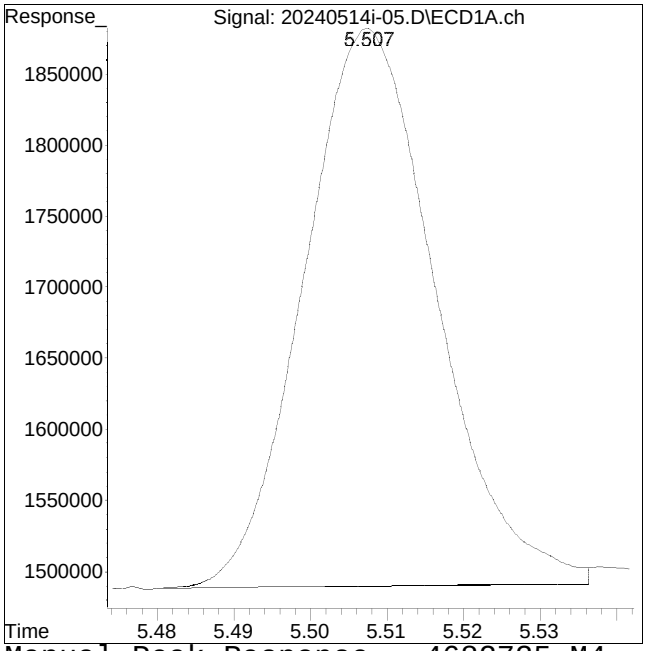
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #20: Endosulfan II



Original Peak Response = 4718457



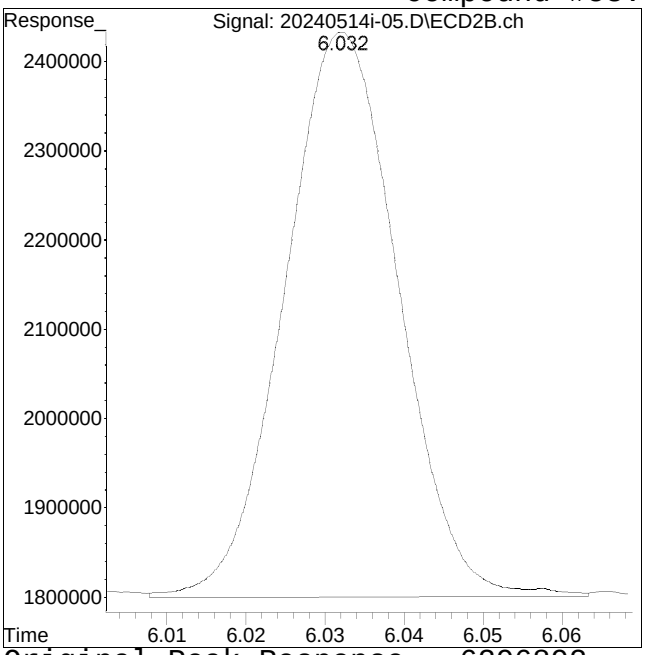
Manual Peak Response = 4682735 M4

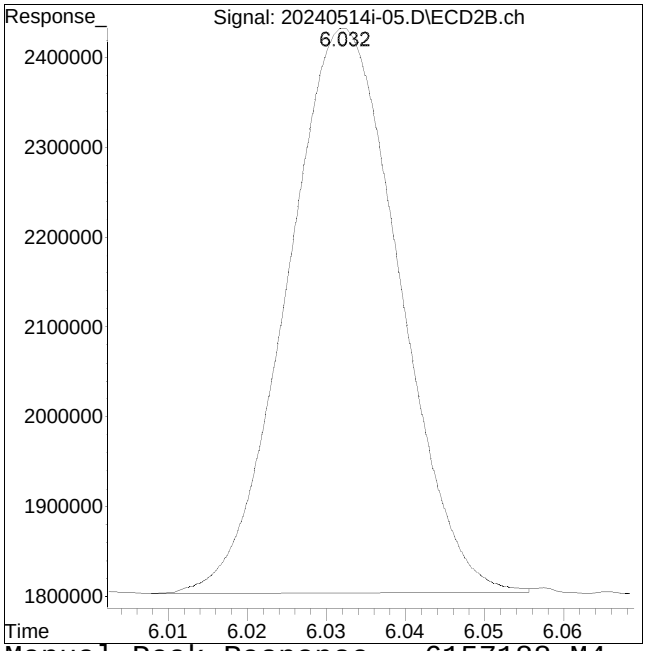
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-05.D
Date Inj'd : 5/14/2024 5:22 pm
Sample : il3pest,42e,,pp 11583 L0.0
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 12:28 pm

Compound #58: Endosulfan II #2



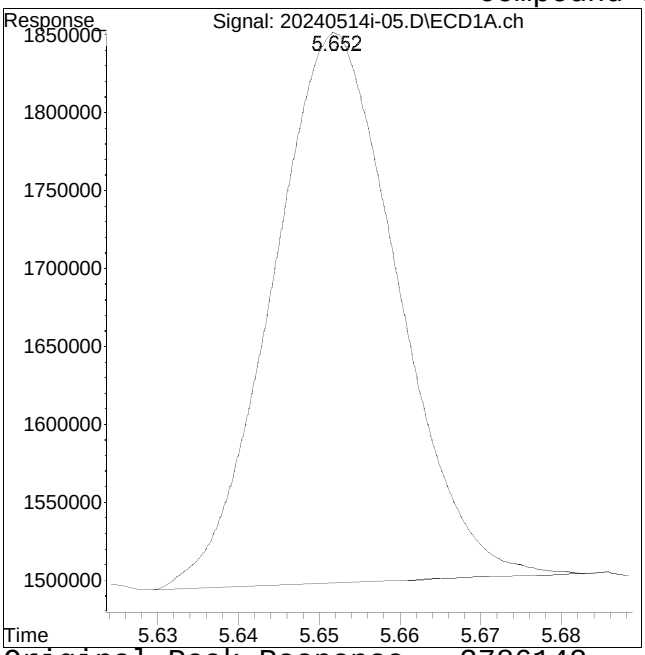


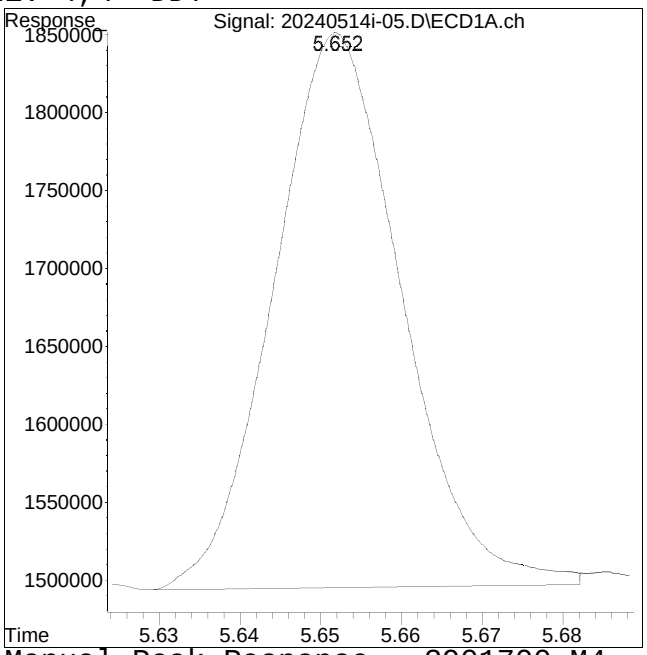
Original Peak Response = 6296892 Manual Peak Response = 6157188 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #21: 4,4'-DDT



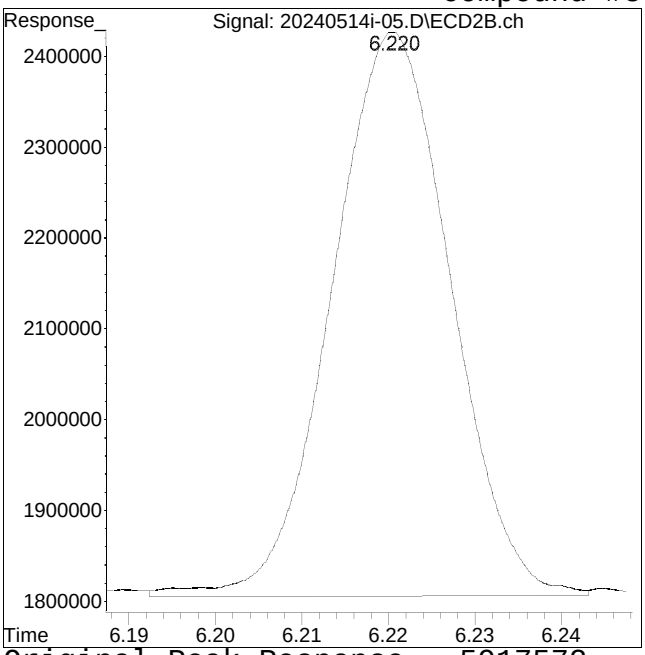


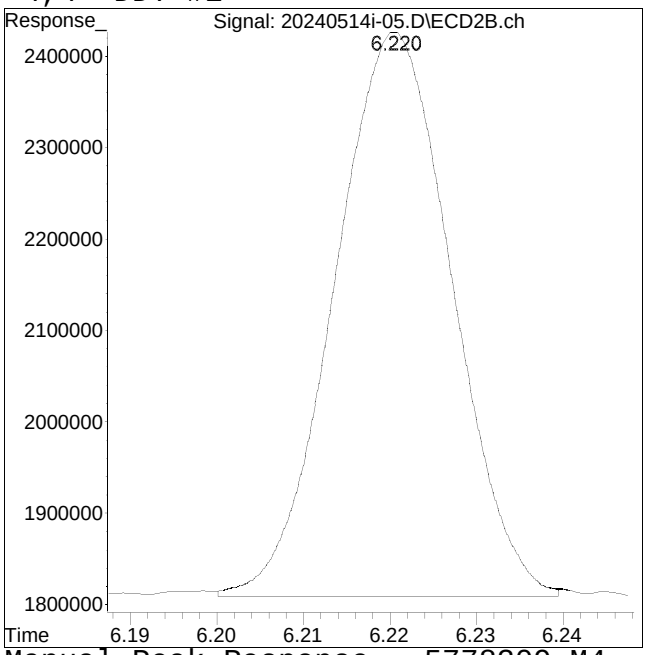
Original Peak Response = 3786142 Manual Peak Response = 3901700 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #59: 4,4'-DDT #2



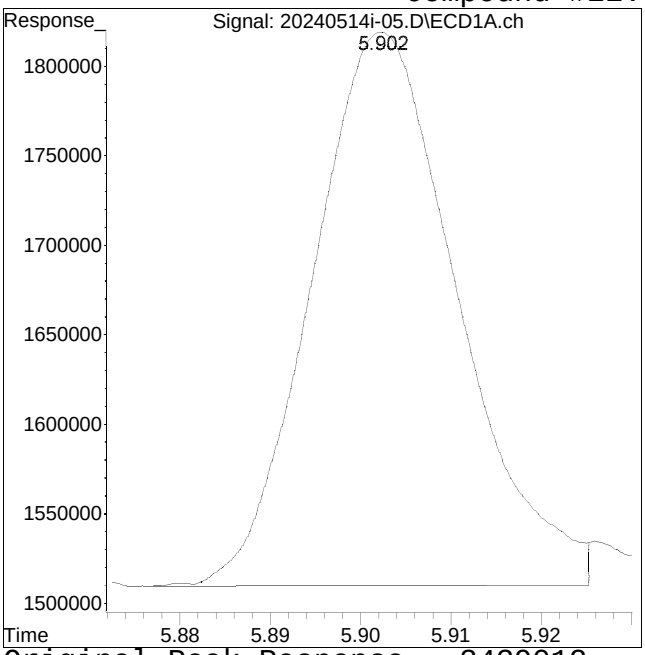


Original Peak Response = 5917572 Manual Peak Response = 5778309 M4
M4 = Poor automated baseline construction.

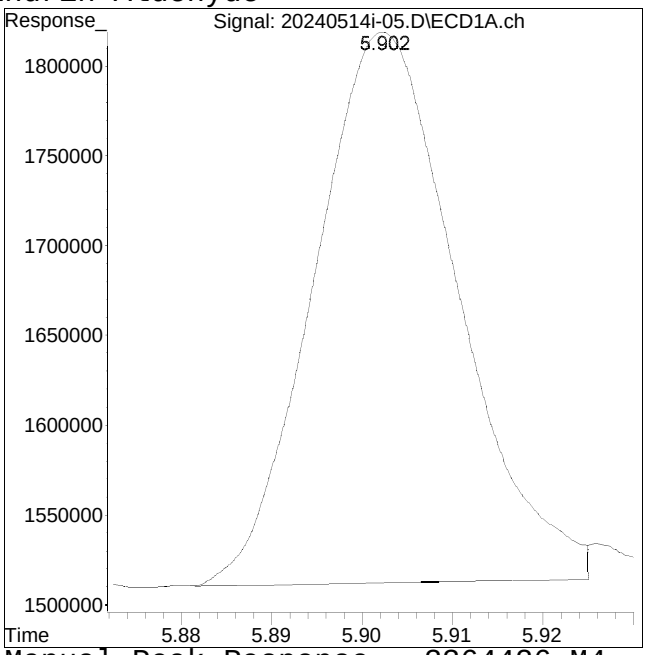
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 3439012



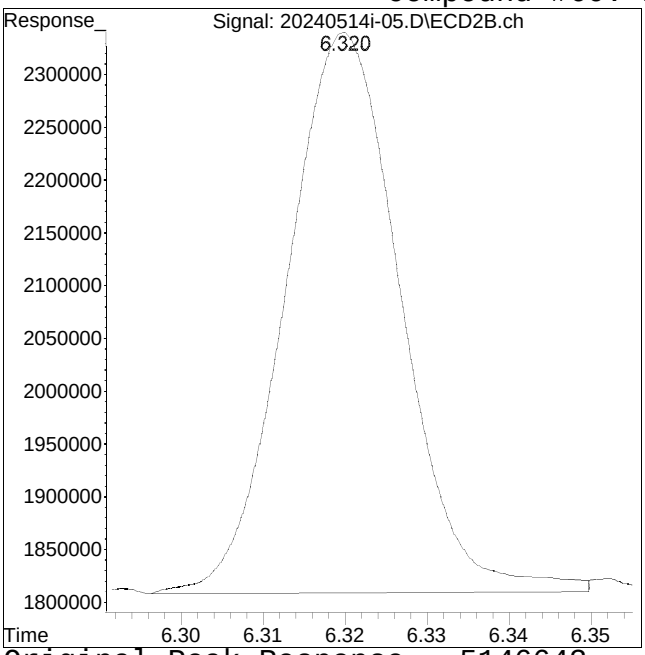
Manual Peak Response = 3364426 M4

M4 = Poor automated baseline construction.

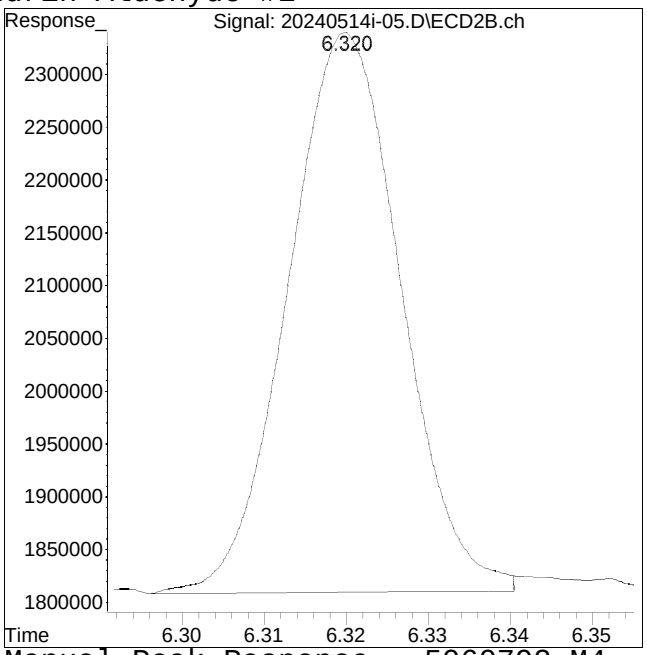
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 5146643



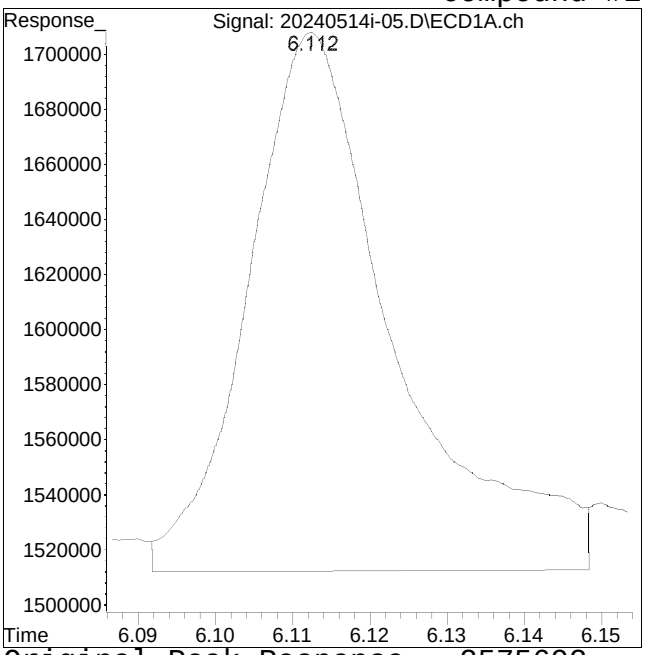
Manual Peak Response = 5060792 M4

M4 = Poor automated baseline construction.

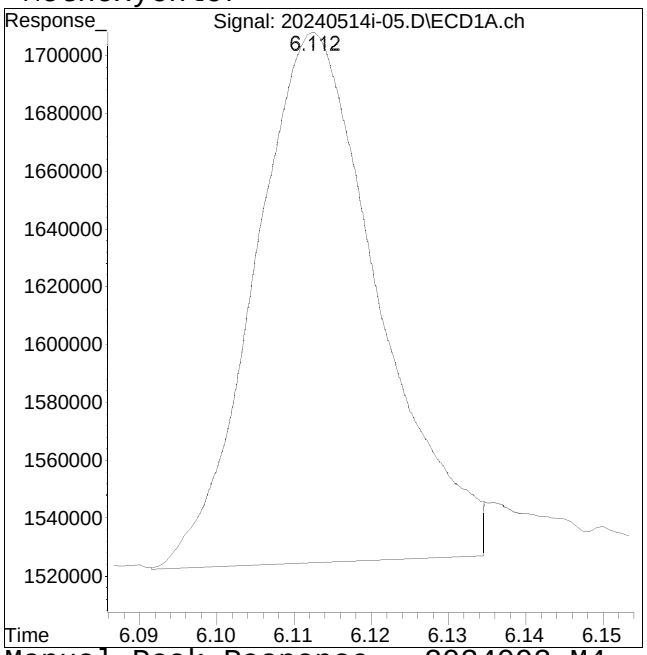
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #23: Methoxychlor



Original Peak Response = 2575692



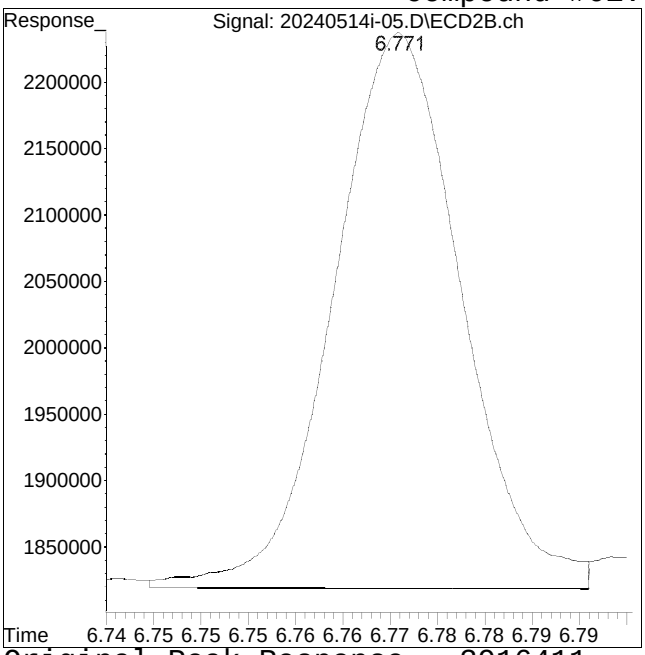
Manual Peak Response = 2034093 M4

M4 = Poor automated baseline construction.

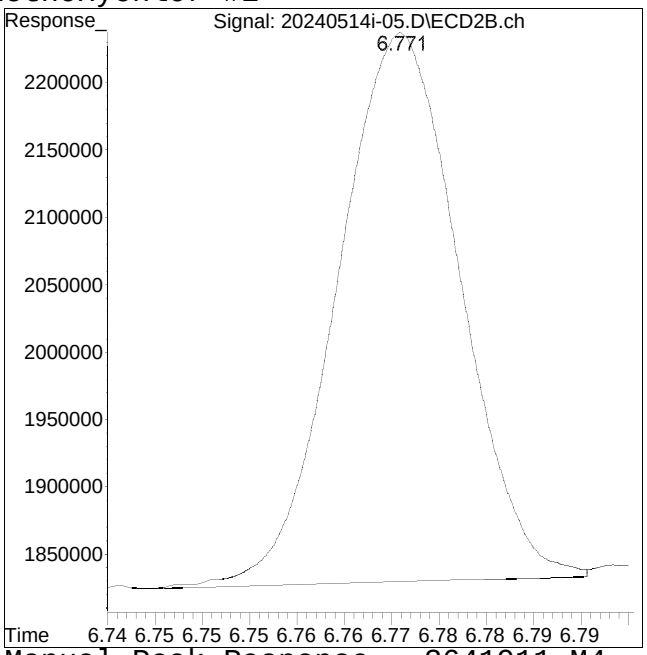
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-05.D
Date Inj'd : 5/14/2024 5:22 pm
Sample : il3pest,42e,,pp 11583 L0.0
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 12:28 pm

Compound #61: Methoxychlor #2



Original Peak Response = 3916411



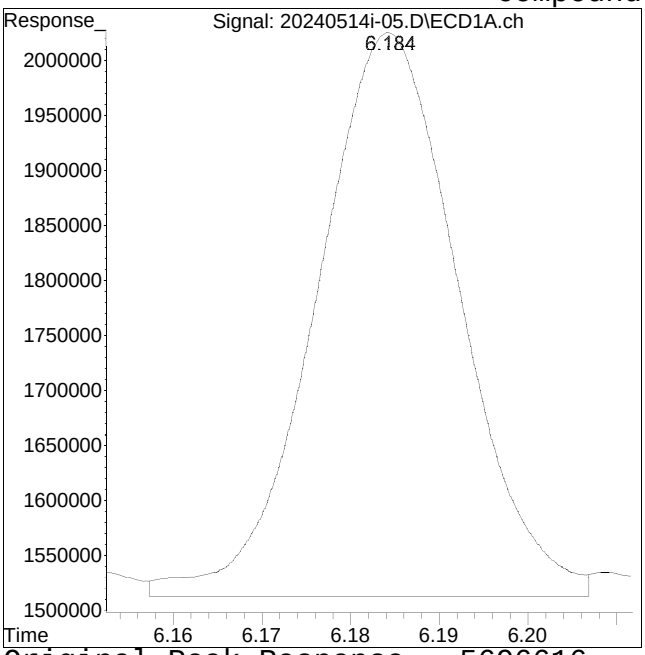
Manual Peak Response = 3641911 M4

M4 = Poor automated baseline construction.

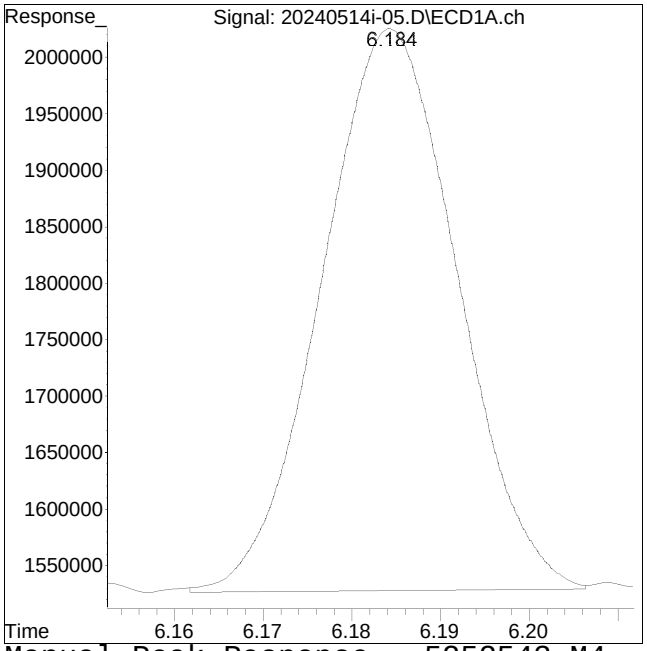
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #24: Mirex



Original Peak Response = 5696616



Manual Peak Response = 5252543 M4

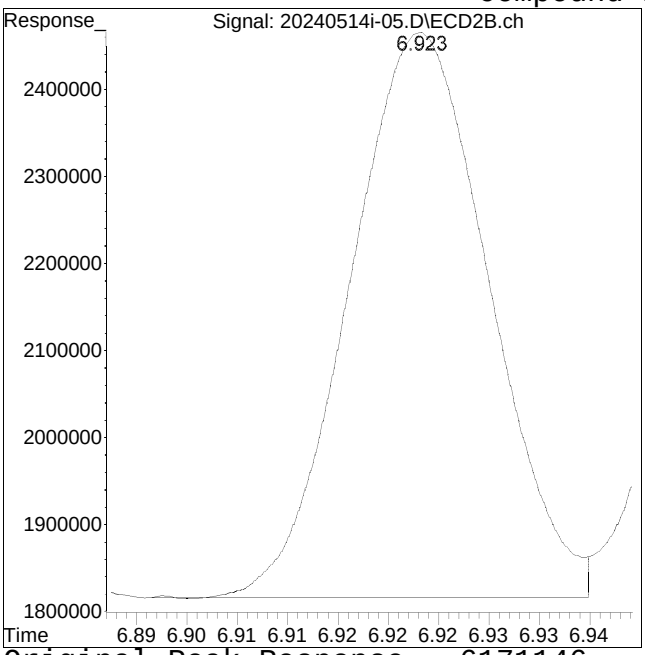
M4 = Poor automated baseline construction.

Manual Integration Report

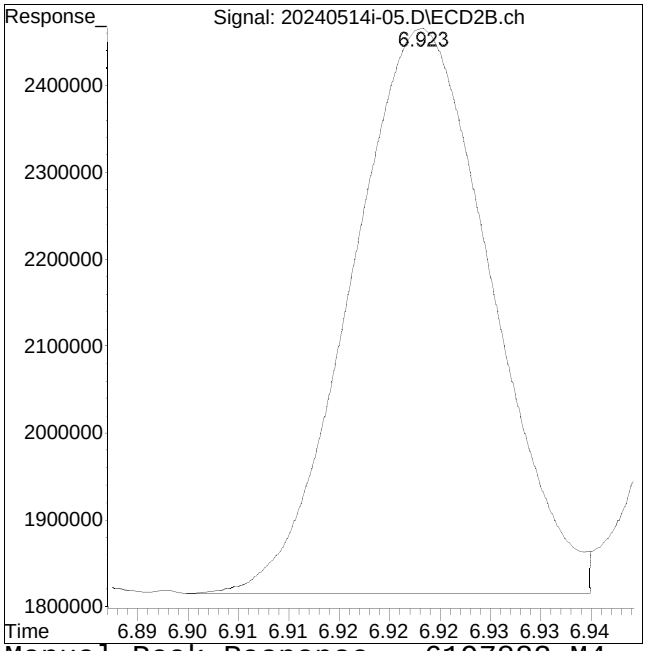
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-05.D
Date Inj'd : 5/14/2024 5:22 pm
Sample : il3pest,42e,,pp 11583 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 12:28 pm

Compound #62: Mirex #2



Original Peak Response = 6171146



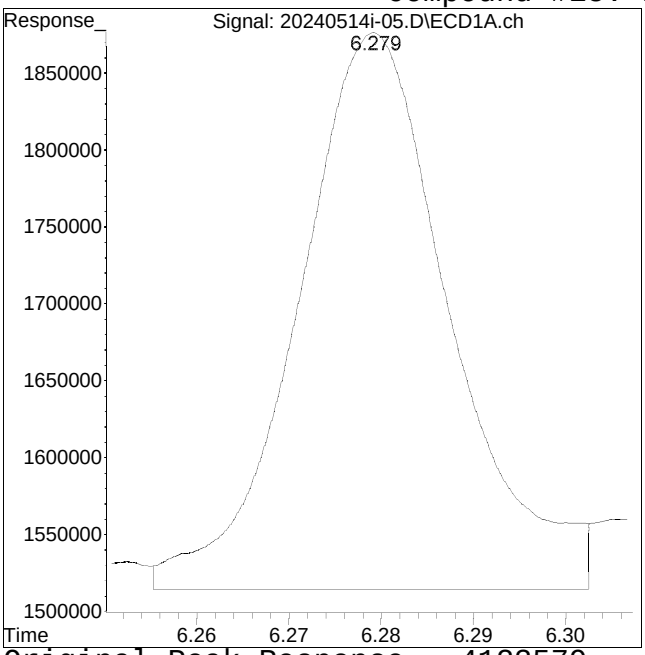
Manual Peak Response = 6197882 M4

M4 = Poor automated baseline construction.

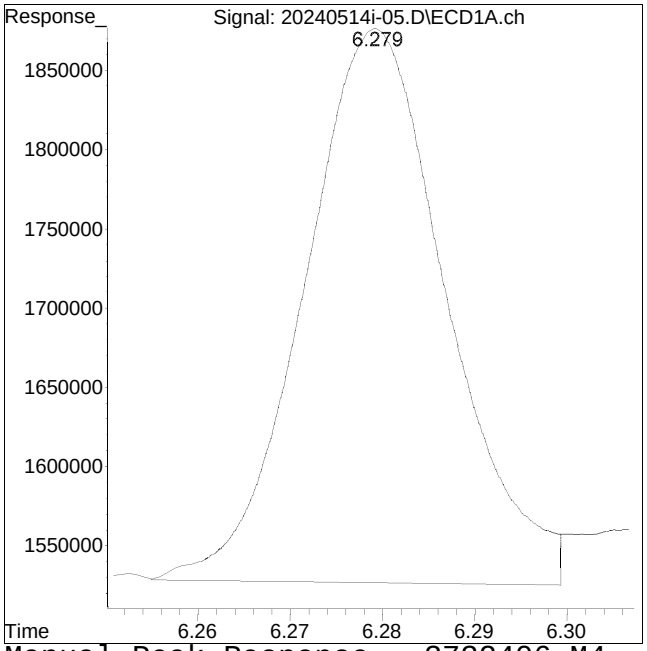
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #25: Endosulfan Sulfate



Original Peak Response = 4123579



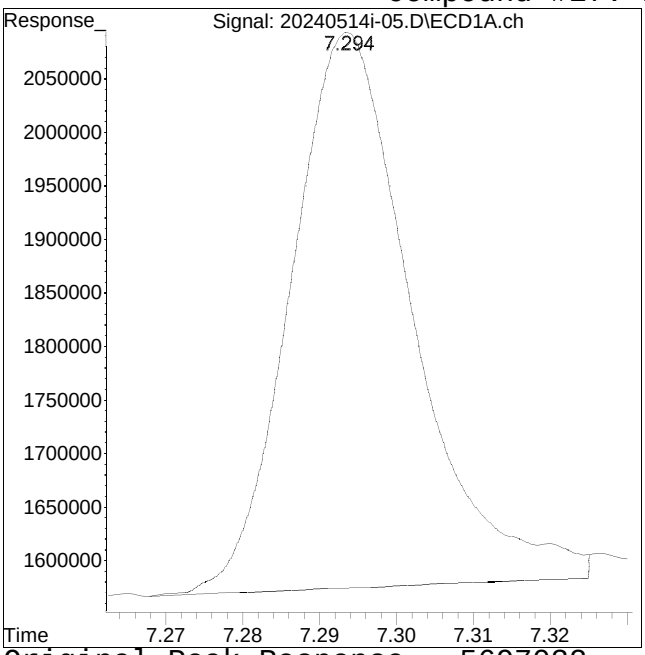
Manual Peak Response = 3732406 M4

M4 = Poor automated baseline construction.

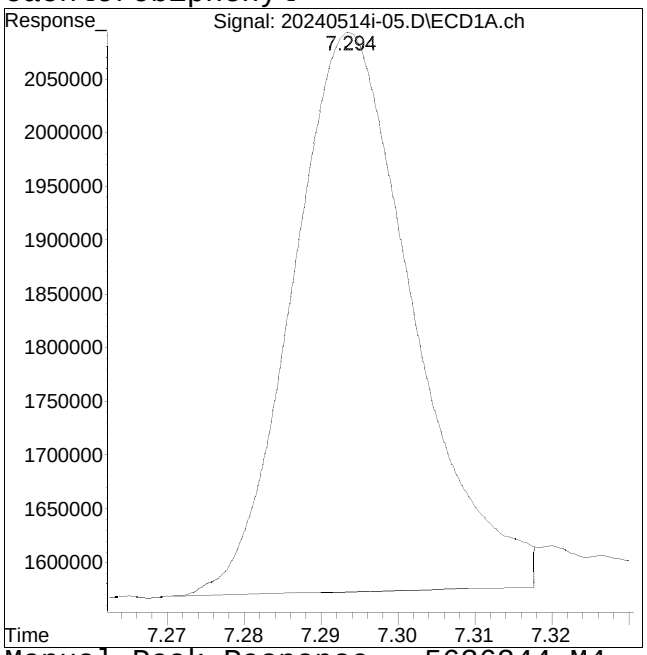
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-05.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:22 pm Instrument : PEST 20
Sample : il3pest,42e,,pp 11583 L0.0Quant Date : 5/16/2024 12:28 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 5697032



Manual Peak Response = 5636244 M4

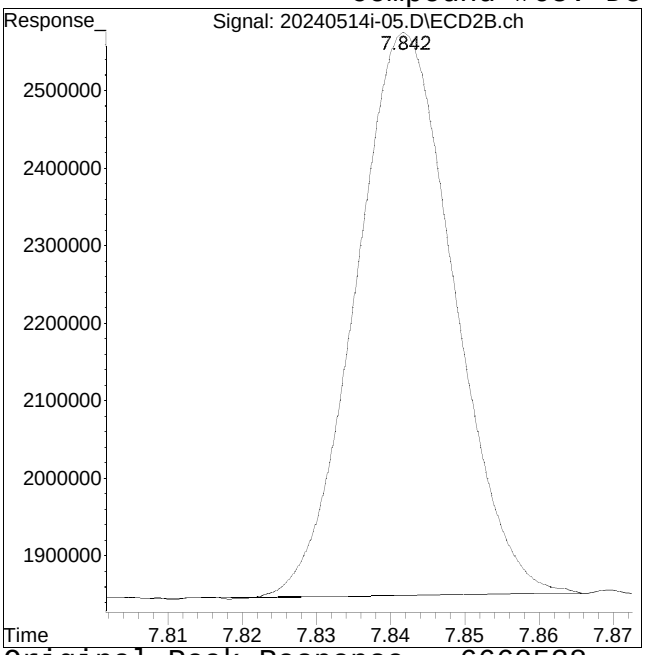
M4 = Poor automated baseline construction.

Manual Integration Report

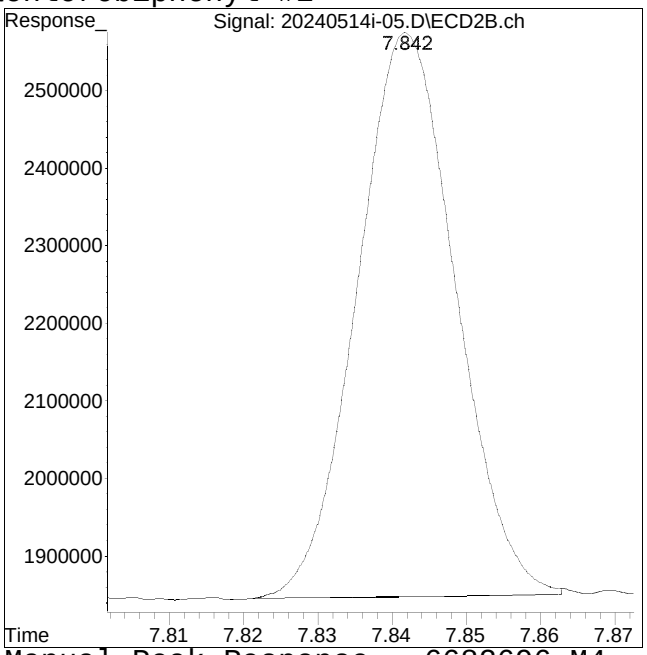
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-05.D
Date Inj'd : 5/14/2024 5:22 pm
Sample : il3pest,42e,,pp 11583 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 12:28 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 6660538



Manual Peak Response = 6682696 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 05:35 pm
Operator : pest20:peg
Sample : il4pest,42e,,pp 11582 L0.003 (Sig #1); il4pest,42e,,pp 11569 L0.003 (Sig #2)
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 11:56:47 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 11:56:34 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.934	1.972	51236836	68227183	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.406	2.576	7873857	9939250	3.507M4	3.403M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		7.01%#	6.81%#
27) s	Decachlorobi	7.291	7.838	8649894	9865949	3.768M4	3.706M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		7.54%#	7.41%#
	Target Compounds						
3)	Hexachlorobe	2.676	2.953	9001349	11186002	3.747M4	3.599M4
4)	alpha-BHC	2.799	3.068	8768995	11384250	3.177M4	3.082
5)	gamma-BHC (l	3.044	3.391	8483049	11003755	3.227M4	3.055M4
6)	beta-BHC	3.113	3.465	4796389	6098617	3.734M4	3.583M4
7)	delta-BHC	3.263	3.761	6923063	10531751	2.977M4	3.092M4
8)	Heptachlor	3.451	3.831	9081551	11267299	3.542M4	3.419M4
9)	Aldrin	3.729	4.179	8594966	10267793	3.350M4	3.246M4
10)	Alachlor	3.872	4.057	1207794	1806698	3.460M4	3.681M4
11)	Chlorpyrifos	3.974	4.437	4225044	6524799	3.684M4	3.865M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 05:35 pm
Operator : pest20:peg
Sample : il4pest,42e,,pp 11582 L0.003 (Sig #1); il4pest,42e,,pp 11569 L0.003 (Sig #2)
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 11:56:47 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 11:56:34 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)		Heptachlor E	4.340	4.840	8828062	10820464	3.580M4	3.419M4
13)		gamma-Chlord	4.478	5.058	7946582	9475540	3.515M4	3.410M4
14)		alpha-Chlord	4.626	5.218	9162982	10417693	3.556M4	3.376M4
15)		4,4'-DDE	4.732	5.402	7840638	9773294	3.251M4	3.197M4
16)		Endosulfan I	4.775	5.277	8280701	9687120	3.502M4	3.354
17)		Dieldrin	5.044	5.555	8168922	9695740	3.363M4	3.252M4
18)		Endrin	5.284	5.842	8236432	9814269	3.394M4	3.245
19)		4,4'-DDD	5.380	5.952	5429211	7852344	3.054M4	3.173M4
20)		Endosulfan I	5.508	6.032	6929739	9250052	3.345M4	3.383M4
21)		4,4'-DDT	5.652	6.221	5919759	8743974	3.138M4	3.251M4
22)		Endrin Aldeh	5.903	6.320	5275487	7572858	3.192M4	3.324
23)		Methoxychlor	6.112	6.771	3090826	5379398	3.179M4	3.524M4
24)		Mirex	6.184	6.922	7651196	9208685	3.760M4	3.795M4
25)		Endosulfan S	6.279	6.544	5691945	8816379	3.322M4	3.437
26)		Endrin Keton	6.503	6.955	6226872	9992918	3.206	3.379
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 05:35 pm
Operator : pest20:peg
Sample : il4pest,42e,,pp 11582 L0.003 (Sig #1); il4pest,42e,,pp 11569 L0.003 (Sig #2)
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 11:56:47 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 11:56:34 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

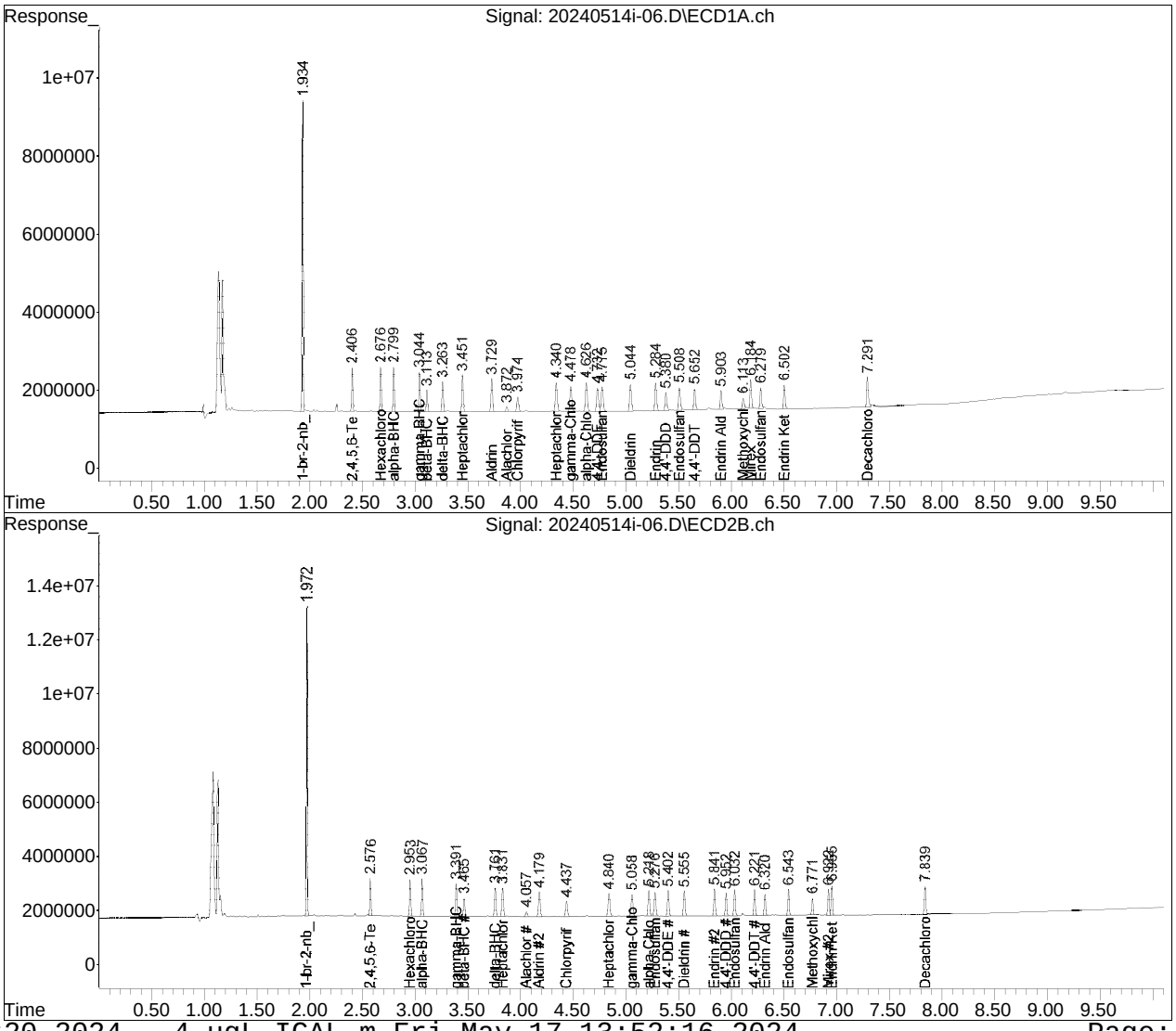
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 05:35 pm
Operator : pest20:peg
Sample : il4pest,42e,,pp 11582 L0.003 (Sig #1); il4pest,42e,,pp 11569 L0.00
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 11:56:47 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 11:56:34 2024
Response via : Initial Calibration
Integrator: ChemStation

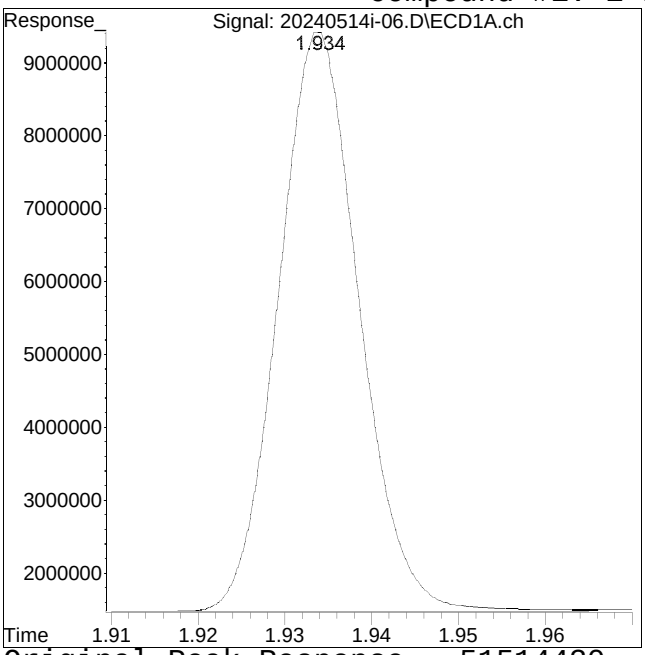
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



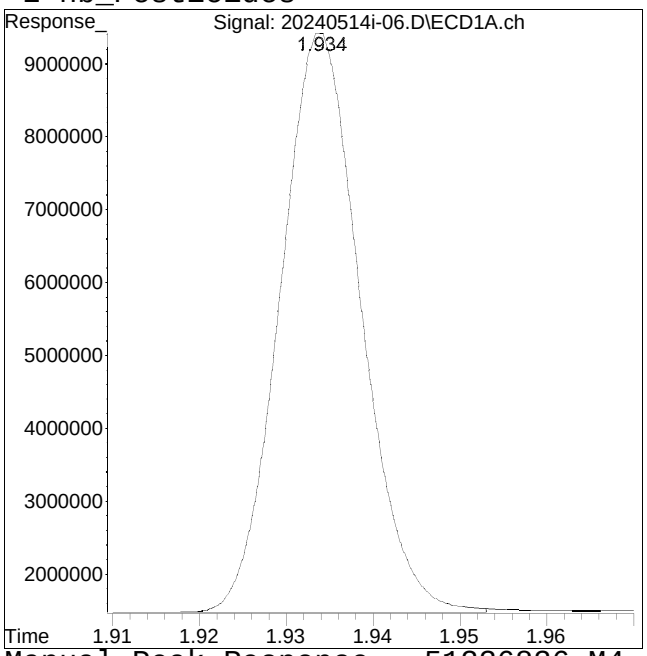
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-06.D
Date Inj'd : 5/14/2024 5:35 pm
Sample : il4pest,42e,,pp 11582 L0.0
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 11:56 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 51514430



Manual Peak Response = 51236836 M4

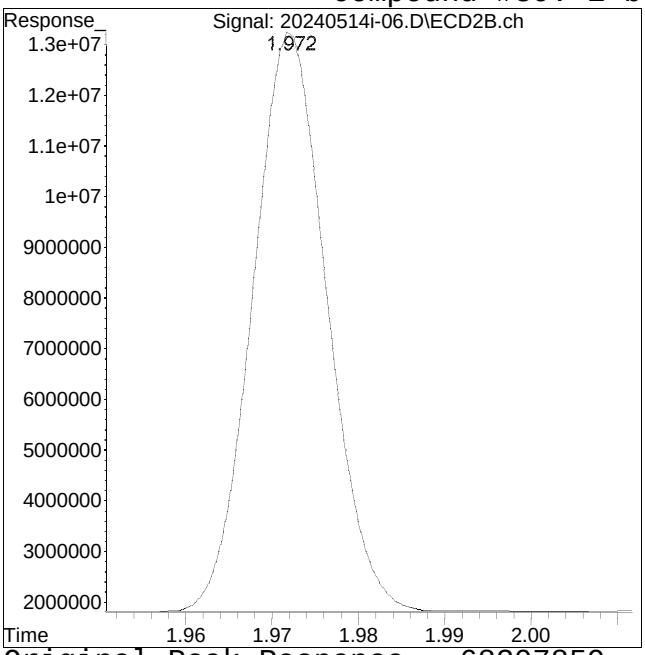
M4 = Poor automated baseline construction.

Manual Integration Report

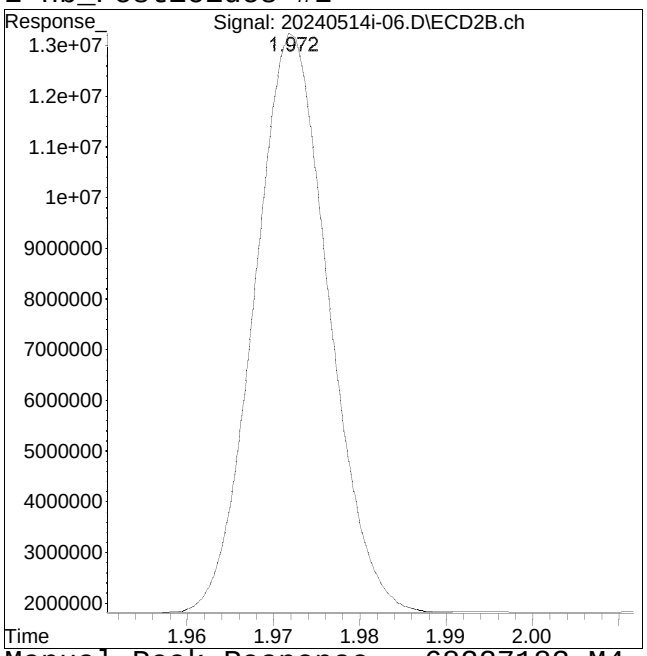
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-06.D
Date Inj'd : 5/14/2024 5:35 pm
Sample : il4pest,42e,,pp 11582 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 11:56 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 68307859



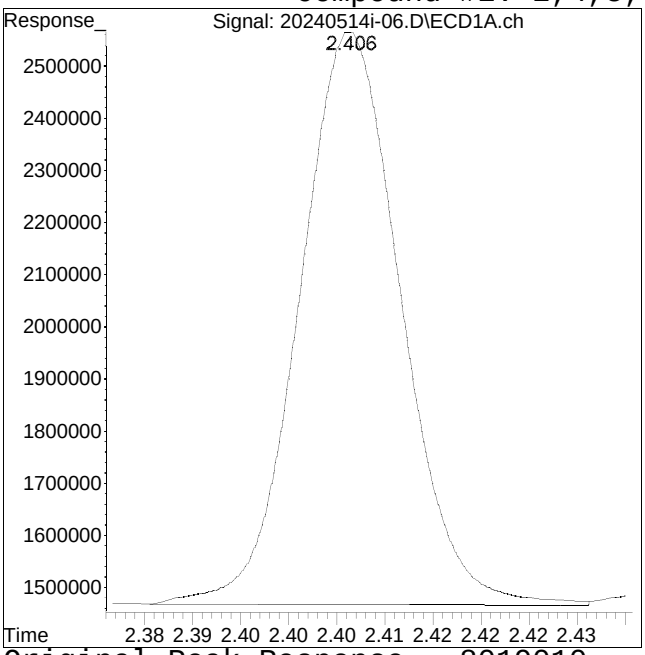
Manual Peak Response = 68227183 M4

M4 = Poor automated baseline construction.

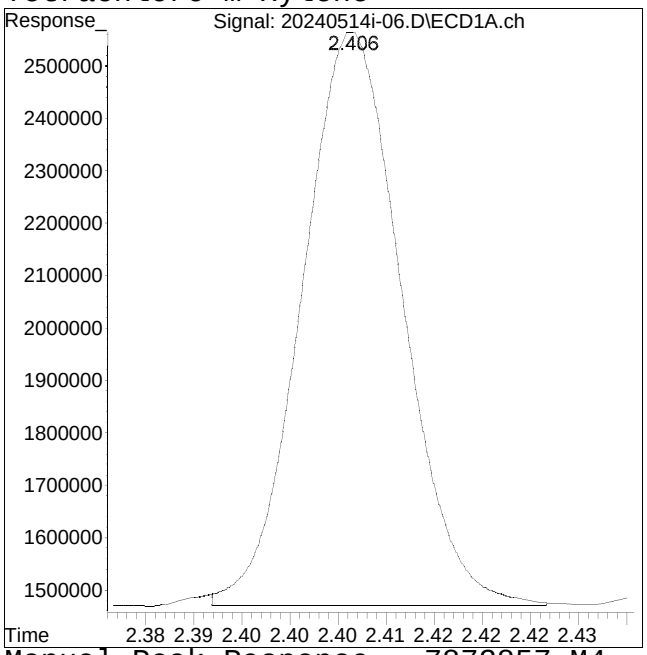
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 8019010



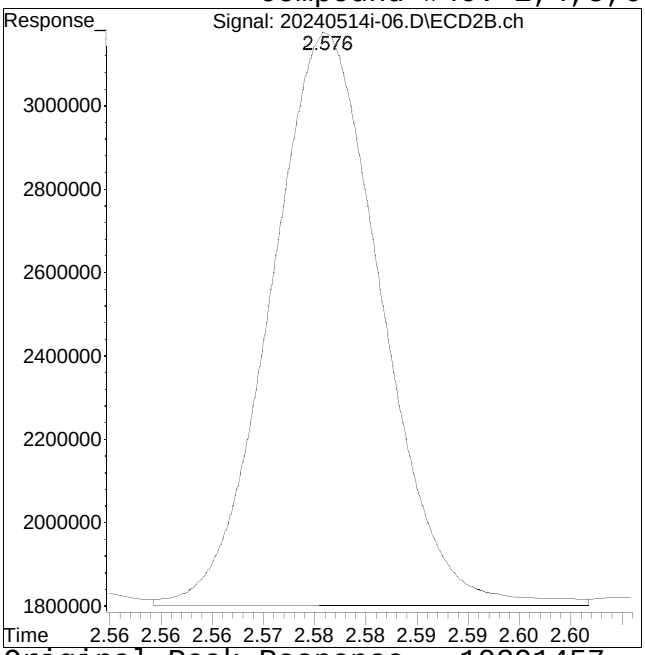
Manual Peak Response = 7873857 M4

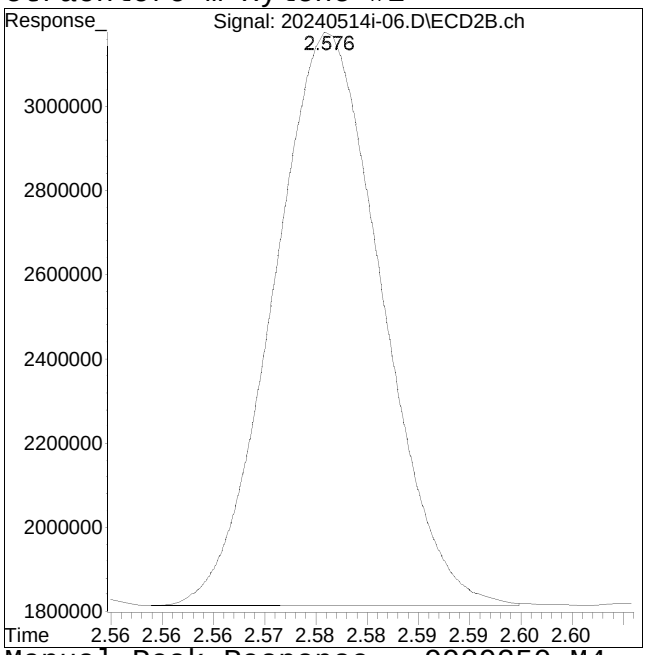
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



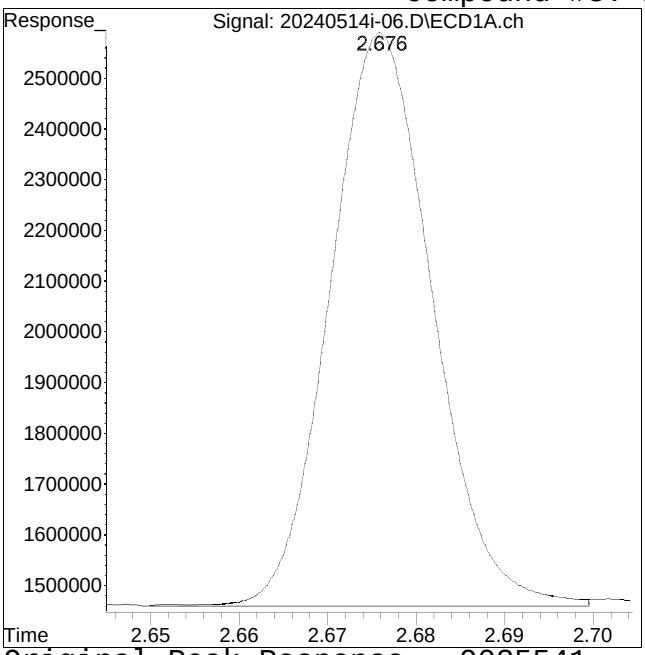


Original Peak Response = 10291457 Manual Peak Response = 9939250 M4
M4 = Poor automated baseline construction.

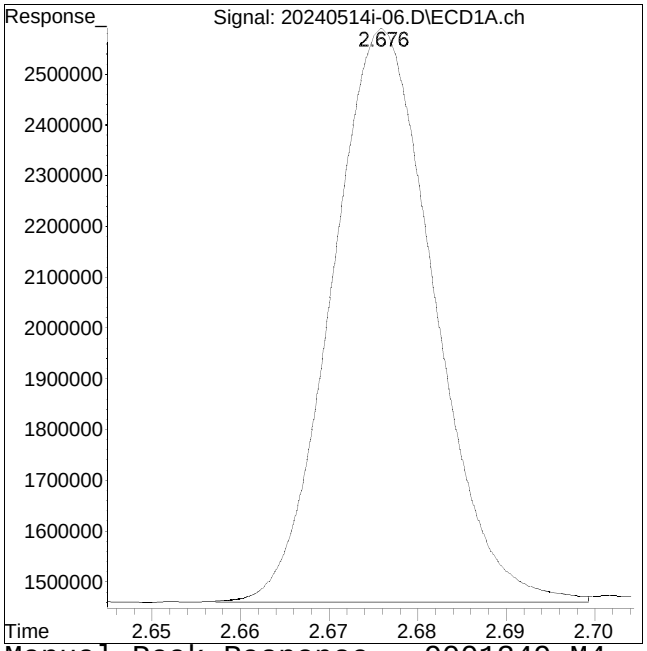
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #3: Hexachlorobenzene



Original Peak Response = 9035541



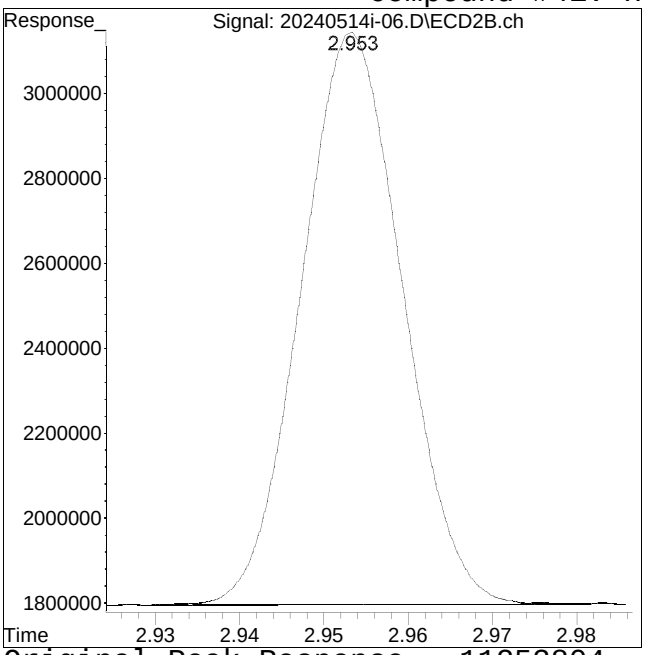
Manual Peak Response = 9001349 M4

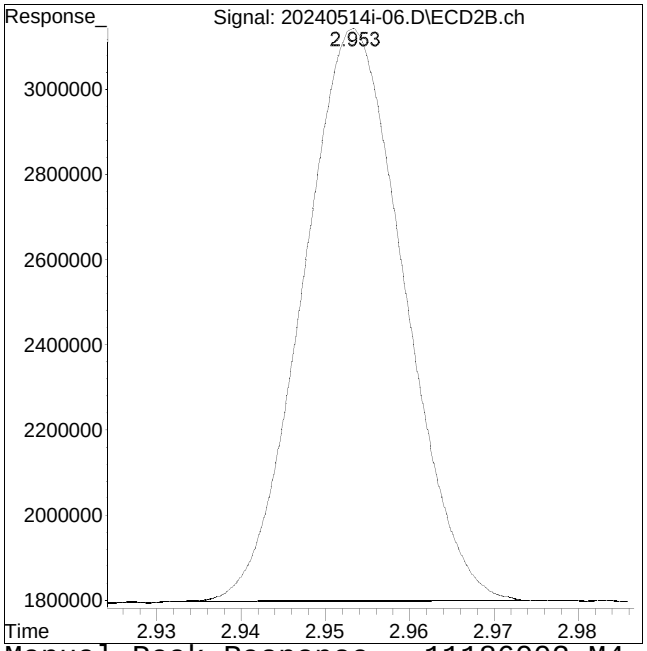
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #41: Hexachlorobenzene #2



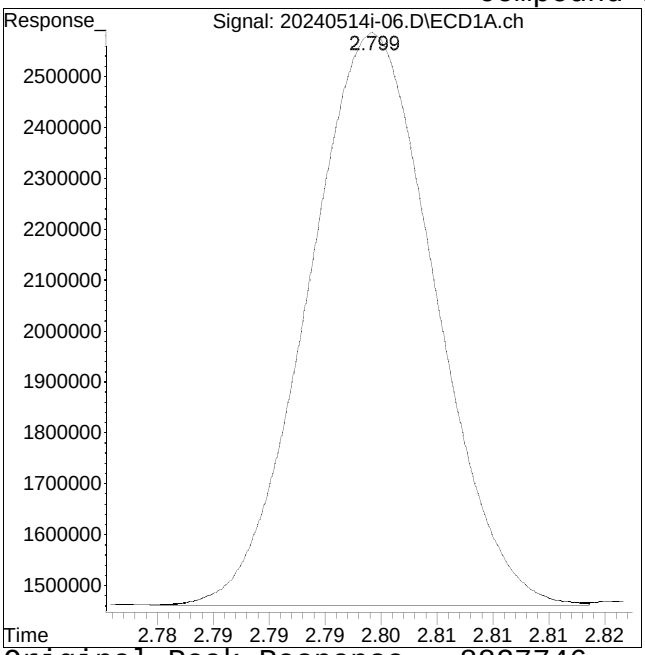


Original Peak Response = 11253804 Manual Peak Response = 11186002 M4
M4 = Poor automated baseline construction.

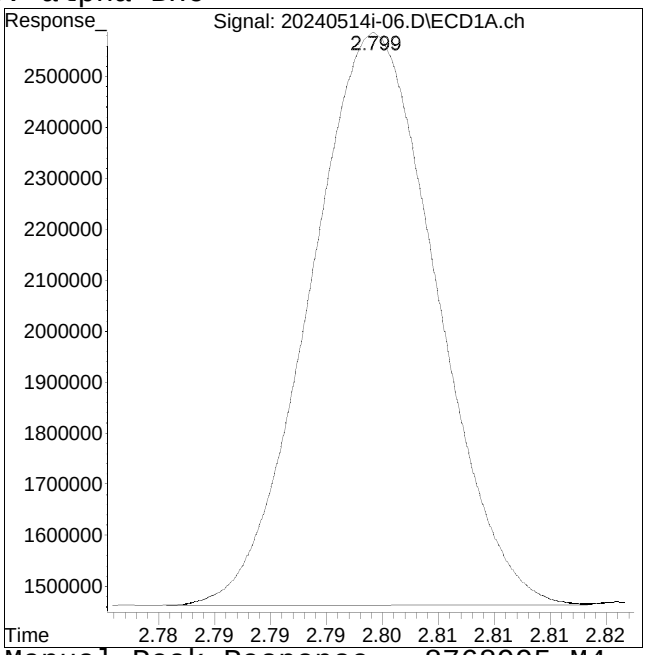
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #4: alpha-BHC



Original Peak Response = 8827746



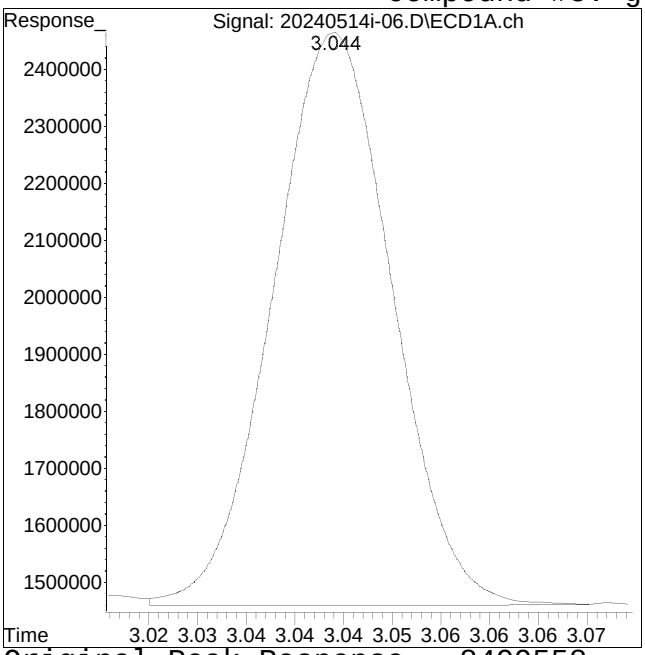
Manual Peak Response = 8768995 M4

M4 = Poor automated baseline construction.

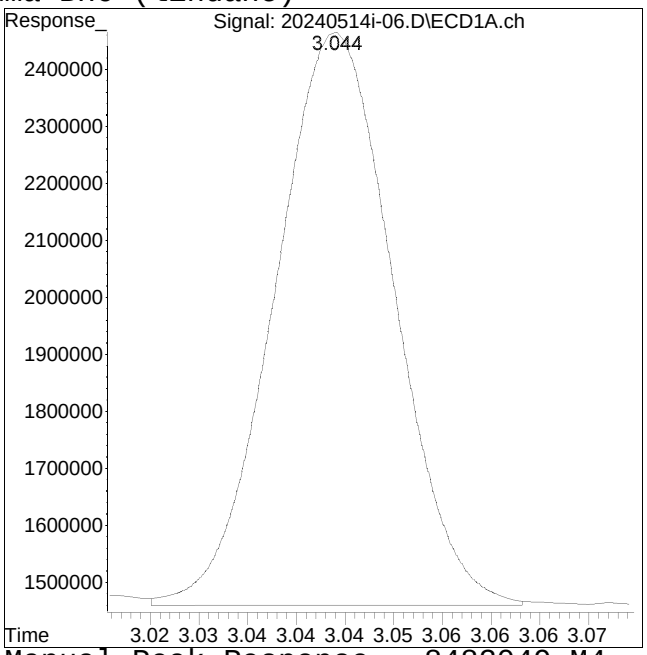
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 8499558



Manual Peak Response = 8483049 M4

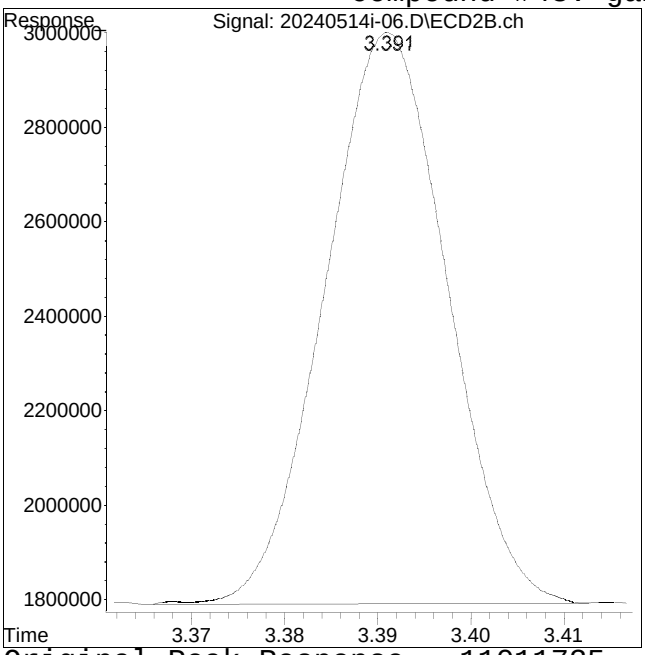
M4 = Poor automated baseline construction.

Manual Integration Report

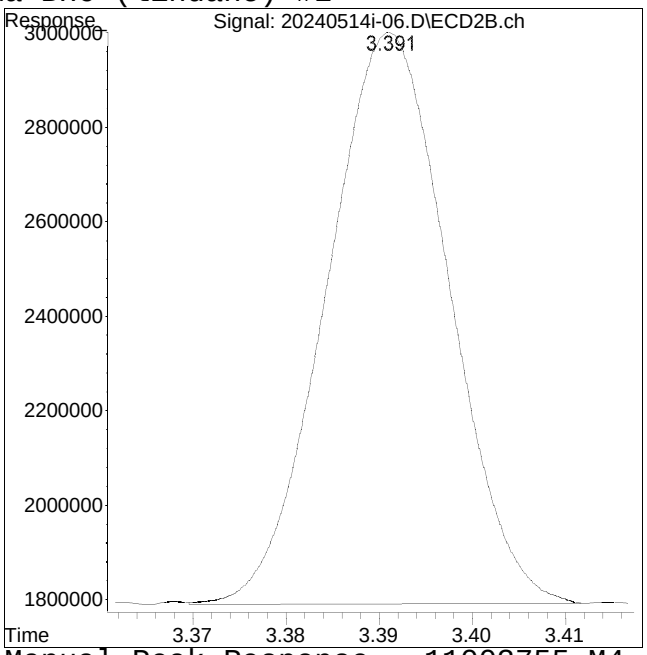
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-06.D
Date Inj'd : 5/14/2024 5:35 pm
Sample : il4pest,42e,,pp 11582 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 11:56 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 11011735



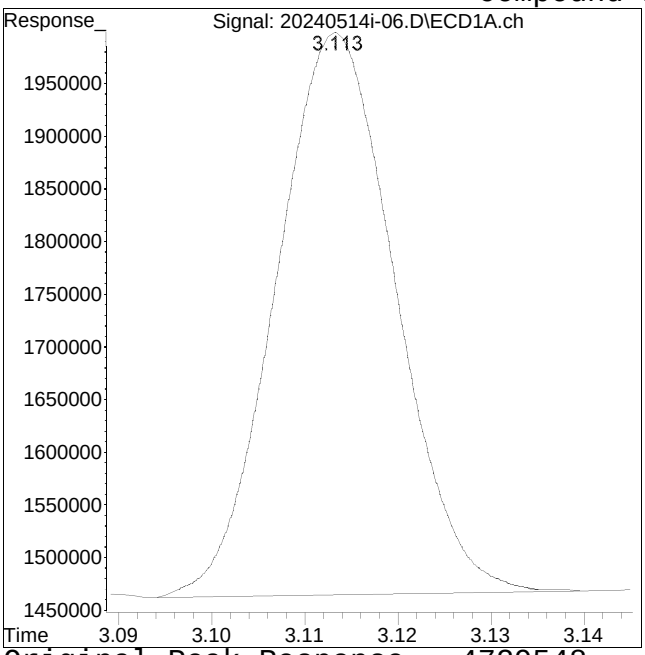
Manual Peak Response = 11003755 M4

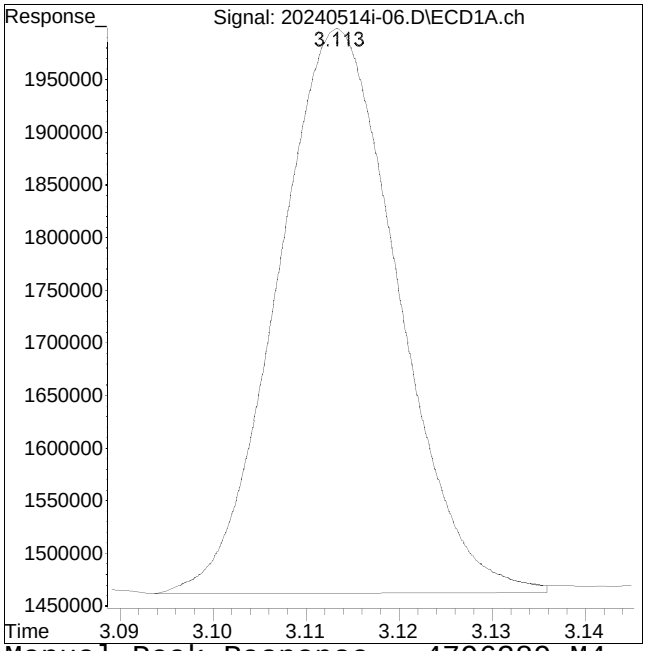
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #6: beta-BHC



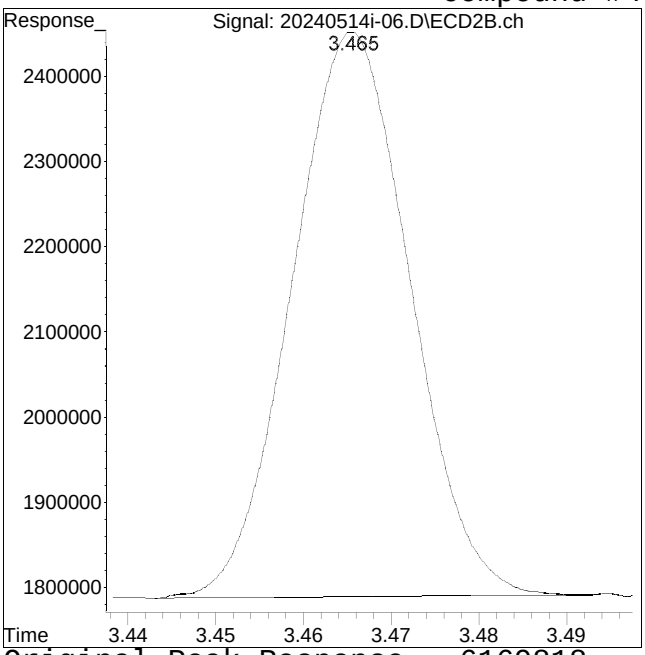


Original Peak Response = 4729548 Manual Peak Response = 4796389 M4
M4 = Poor automated baseline construction.

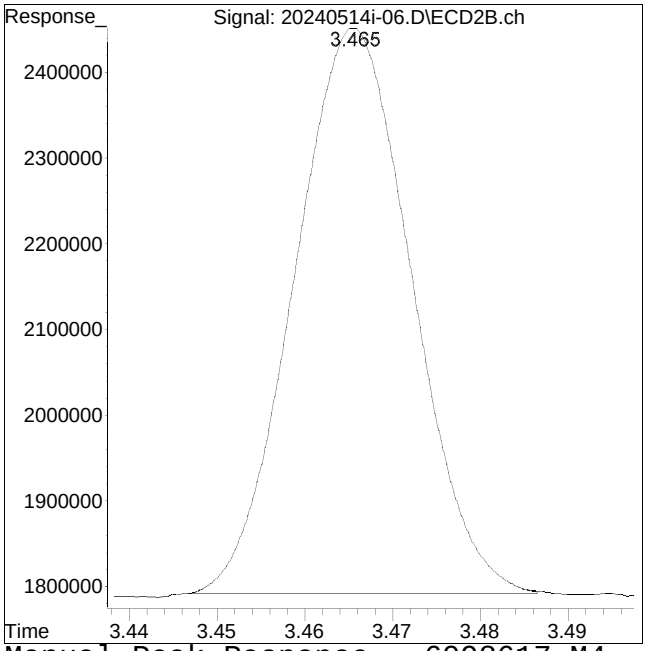
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #44: beta-BHC #2



Original Peak Response = 6169818



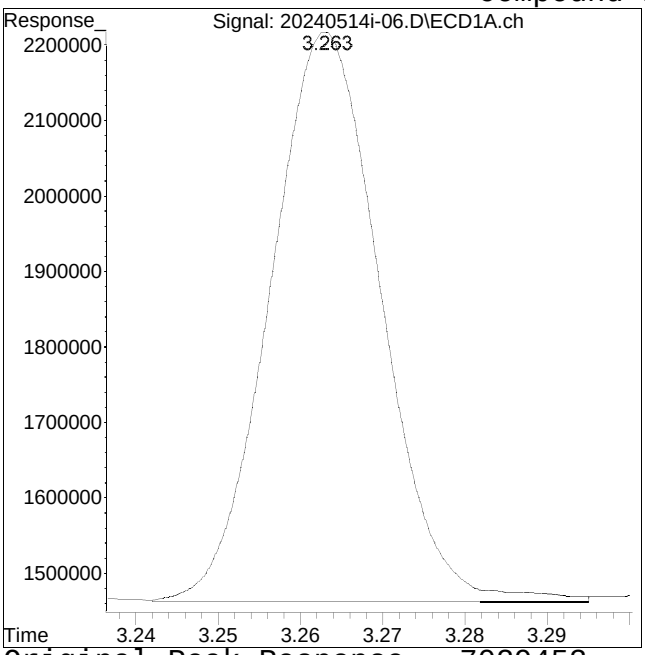
Manual Peak Response = 6098617 M4

M4 = Poor automated baseline construction.

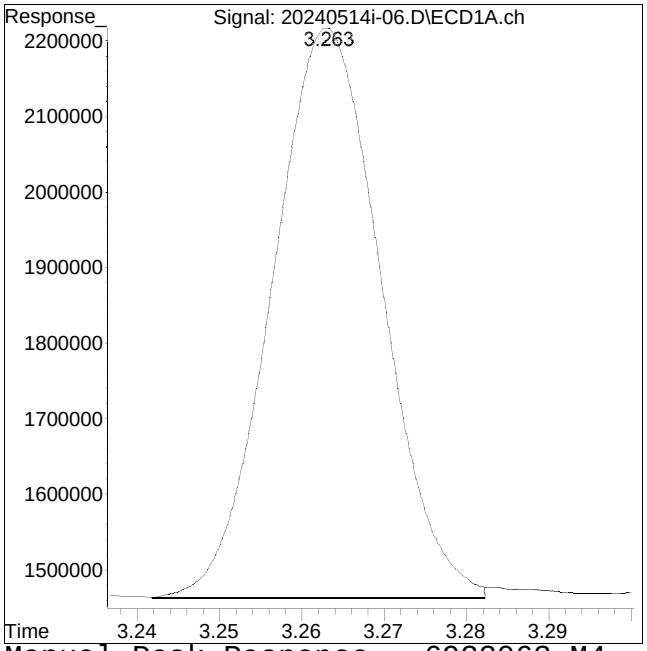
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #7: delta-BHC



Original Peak Response = 7029453



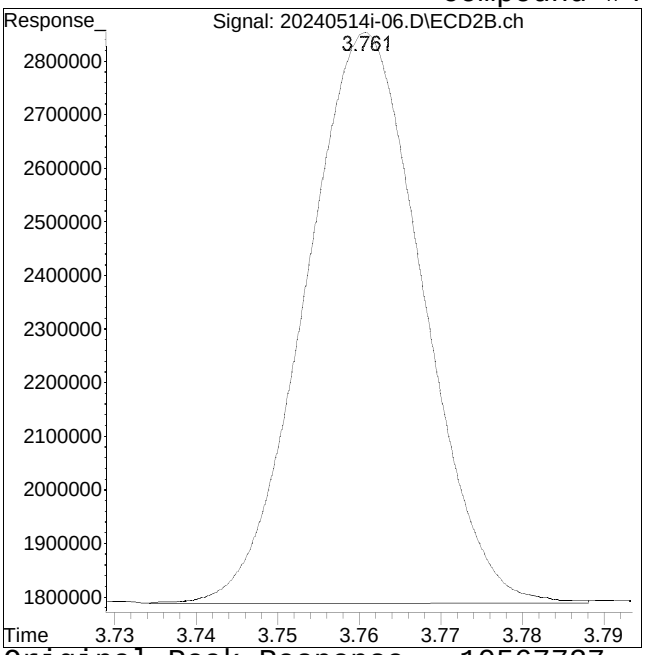
Manual Peak Response = 6923063 M4

M4 = Poor automated baseline construction.

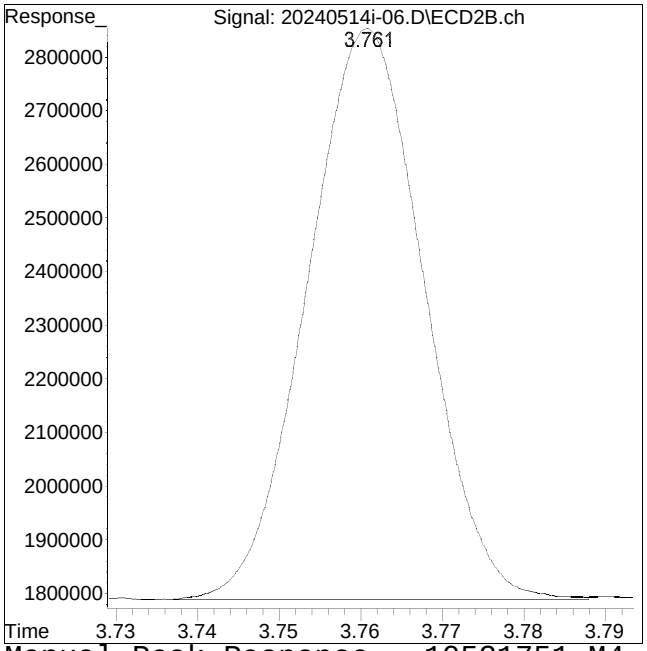
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #45: delta-BHC #2



Original Peak Response = 10567737



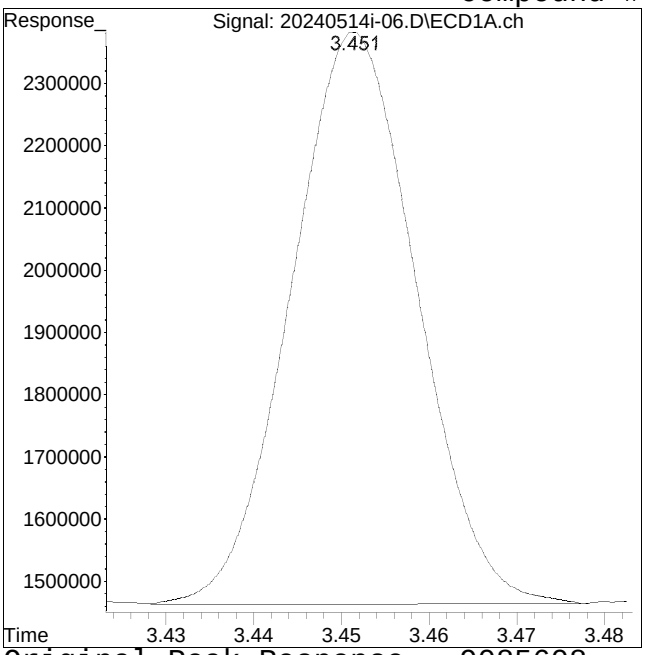
Manual Peak Response = 10531751 M4

M4 = Poor automated baseline construction.

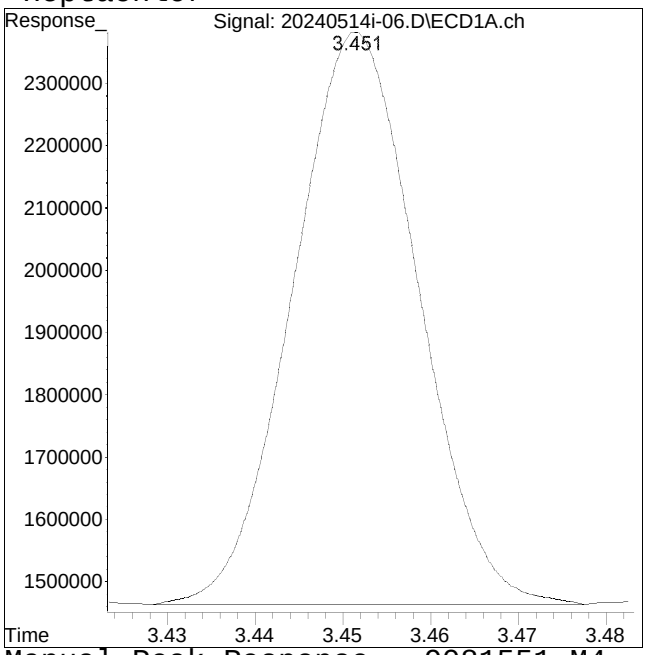
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #8: Heptachlor



Original Peak Response = 9085608



Manual Peak Response = 9081551 M4

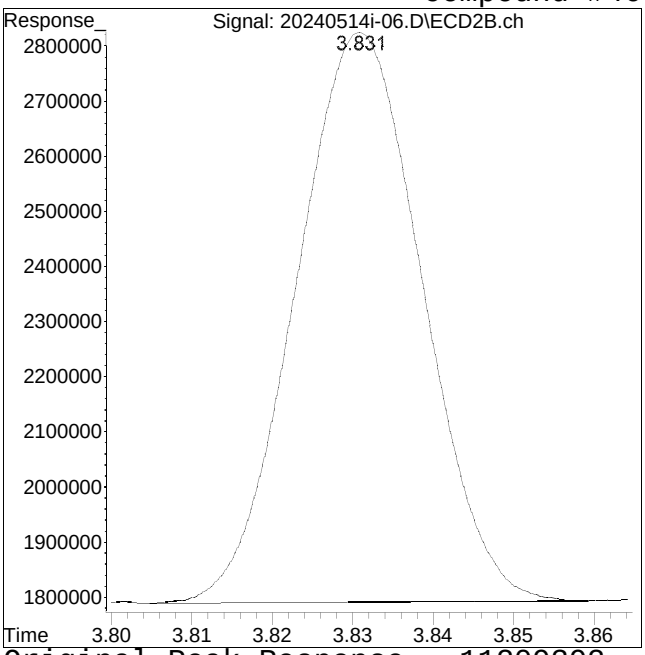
M4 = Poor automated baseline construction.

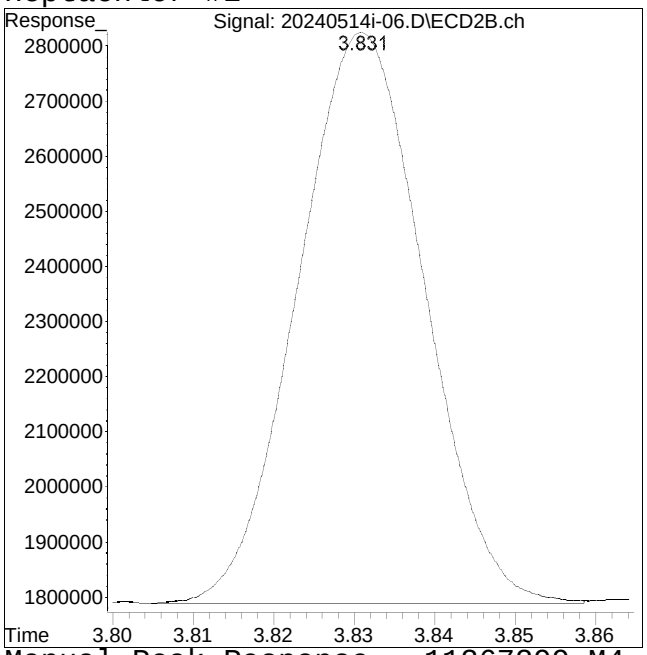
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-06.D
Date Inj'd : 5/14/2024 5:35 pm
Sample : il4pest,42e,,pp 11582 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 11:56 am

Compound #46: Heptachlor #2



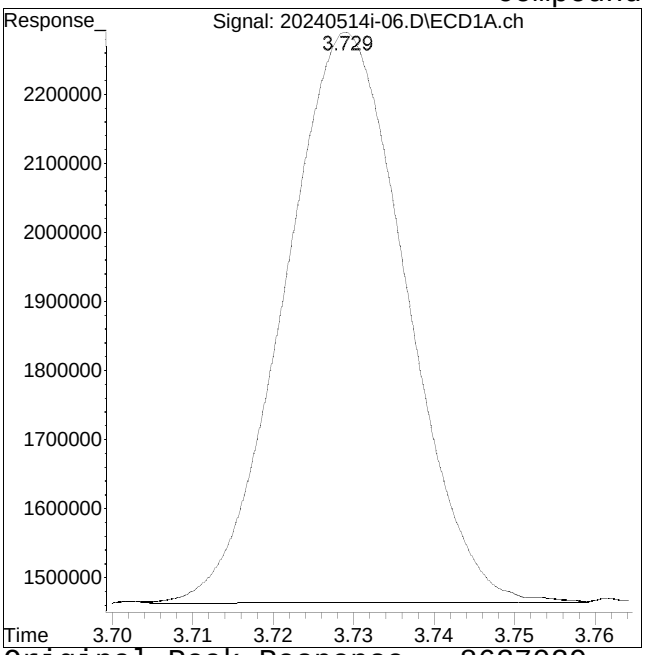


Original Peak Response = 11209392 Manual Peak Response = 11267299 M4
M4 = Poor automated baseline construction.

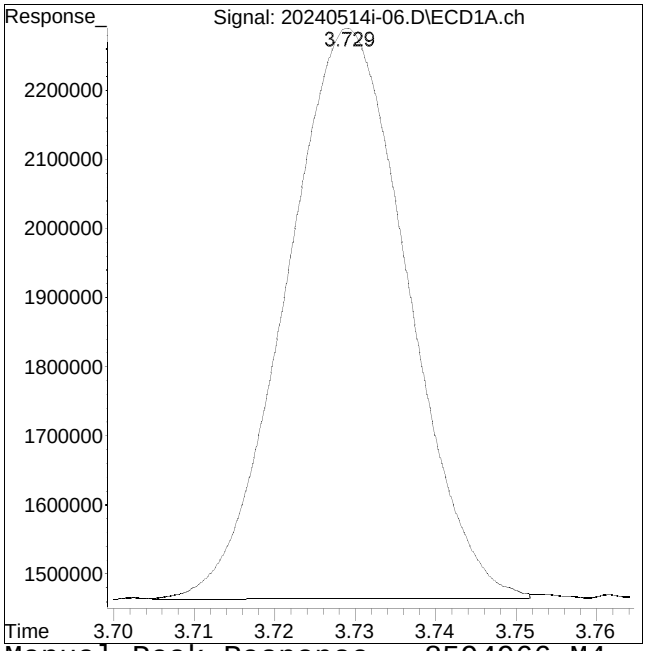
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #9: Aldrin



Original Peak Response = 8637029



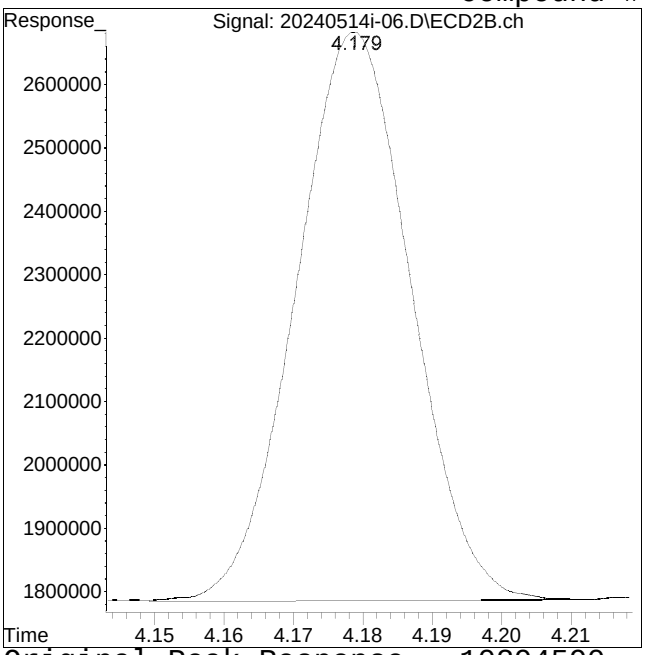
Manual Peak Response = 8594966 M4

M4 = Poor automated baseline construction.

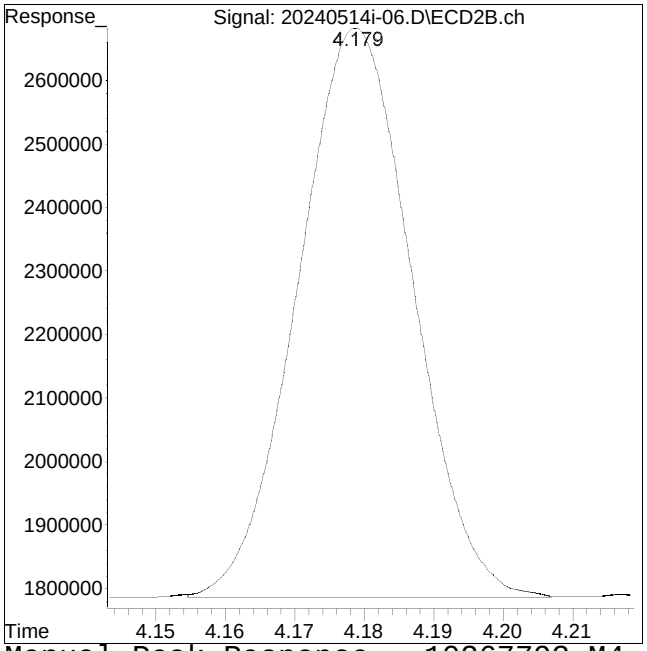
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #47: Aldrin #2



Original Peak Response = 10294590



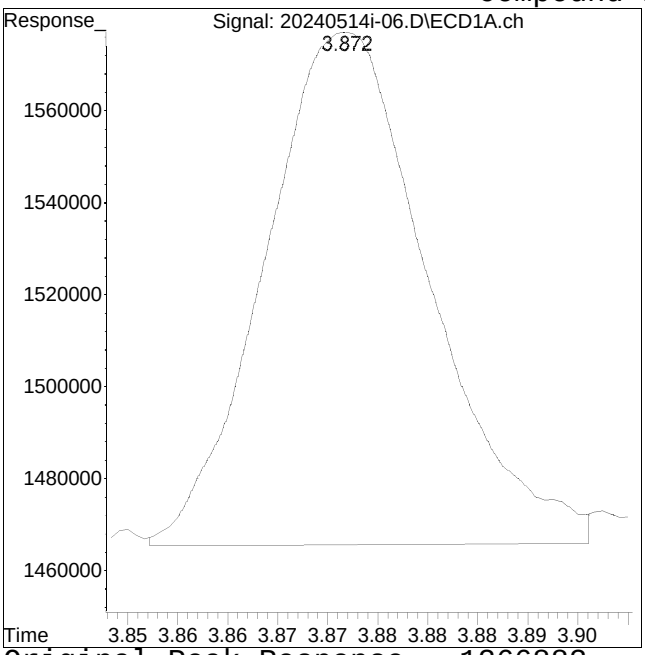
Manual Peak Response = 10267793 M4

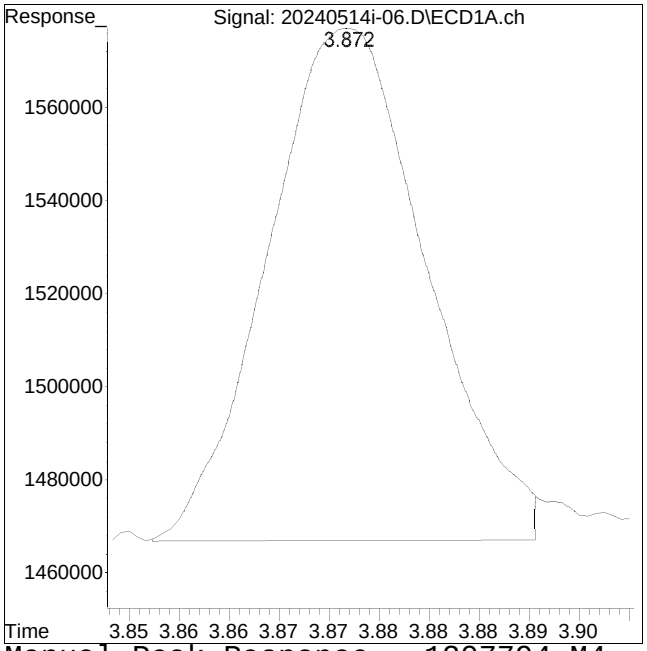
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #10: Alachlor



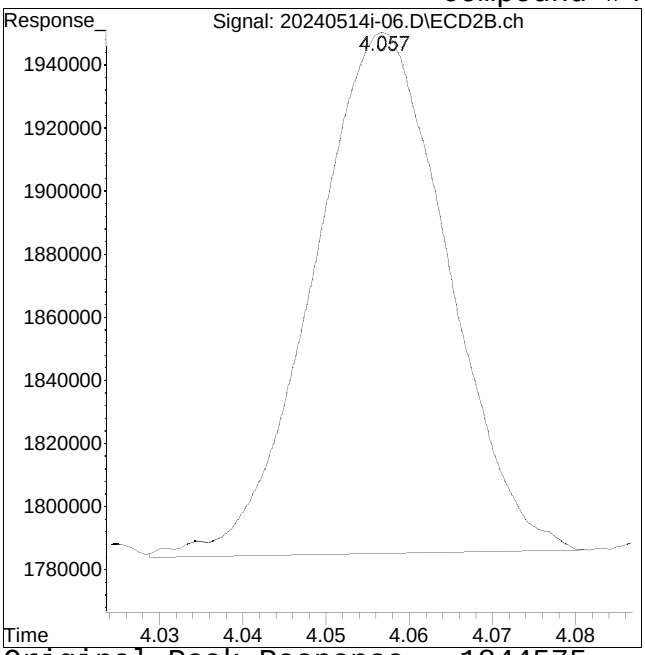


Original Peak Response = 1266883 Manual Peak Response = 1207794 M4
M4 = Poor automated baseline construction.

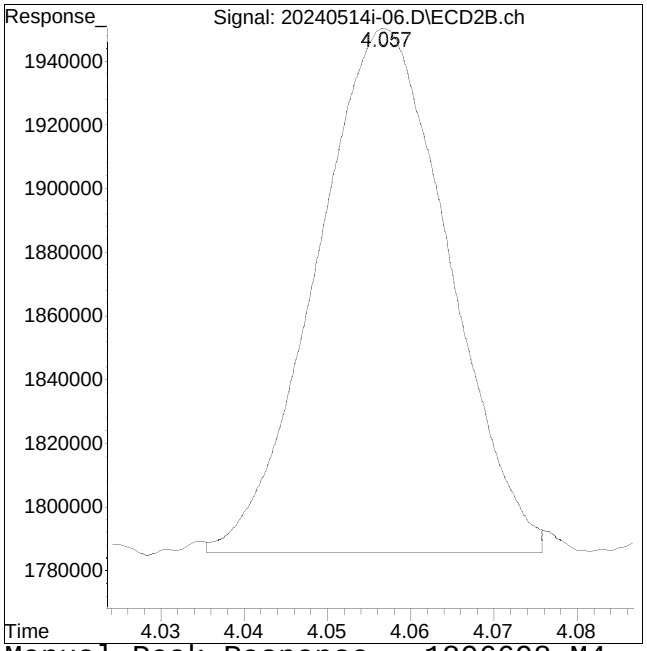
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #48: Alachlor #2



Original Peak Response = 1844575



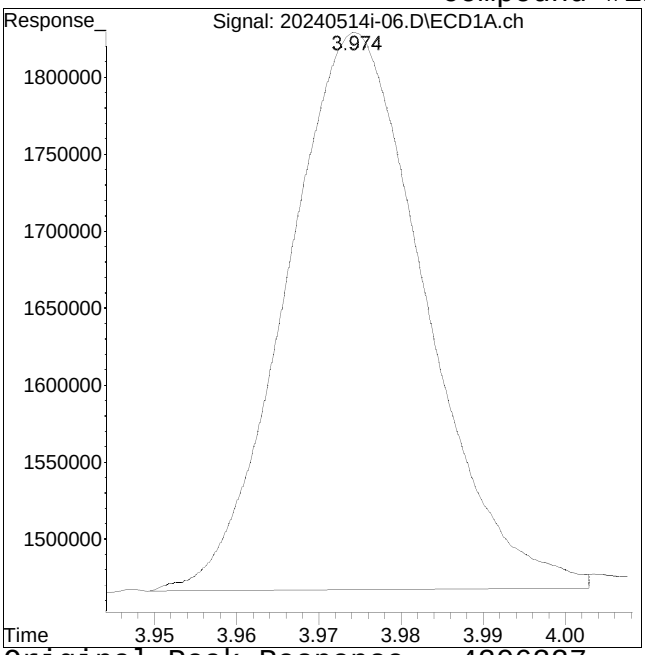
Manual Peak Response = 1806698 M4

M4 = Poor automated baseline construction.

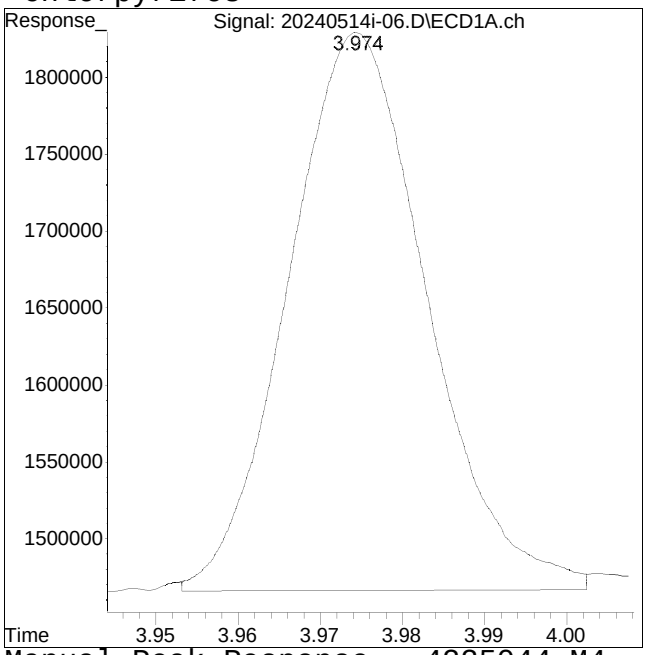
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #11: Chlorpyrifos



Original Peak Response = 4206327



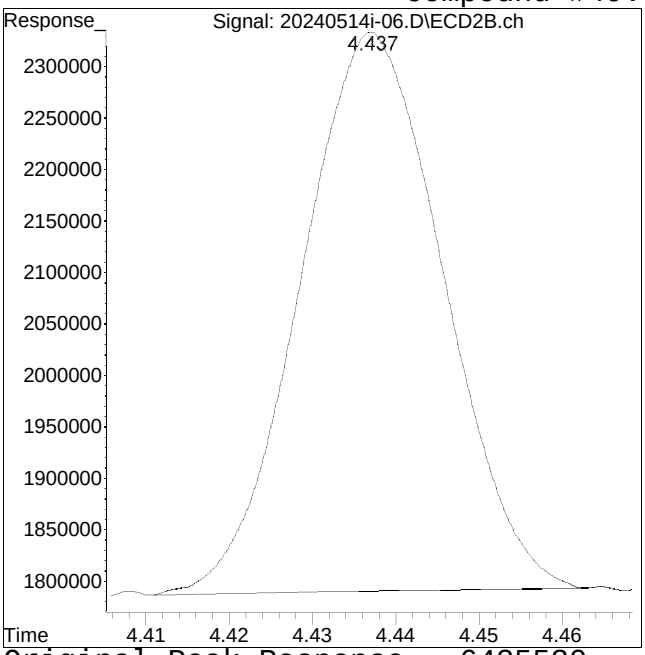
Manual Peak Response = 4225044 M4

M4 = Poor automated baseline construction.

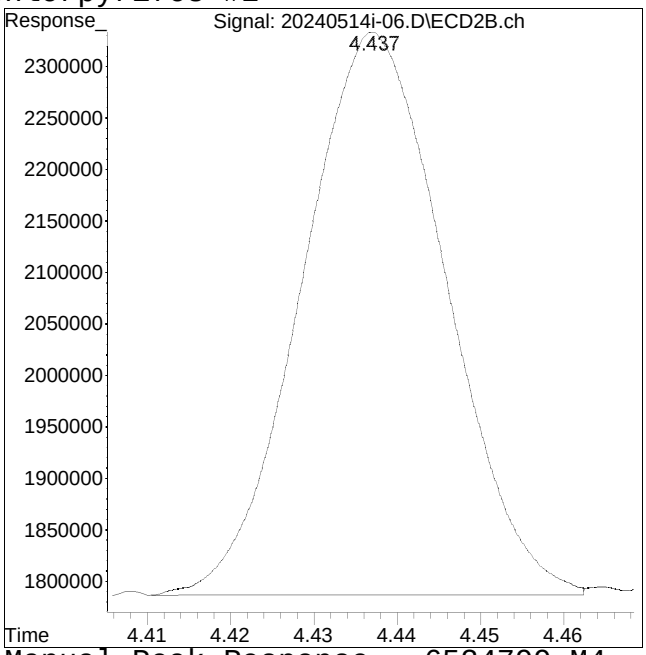
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 6435530



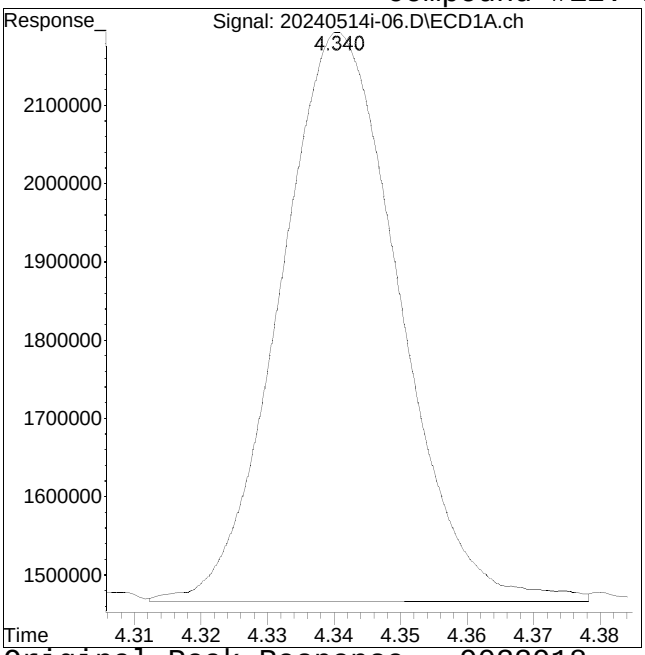
Manual Peak Response = 6524799 M4

M4 = Poor automated baseline construction.

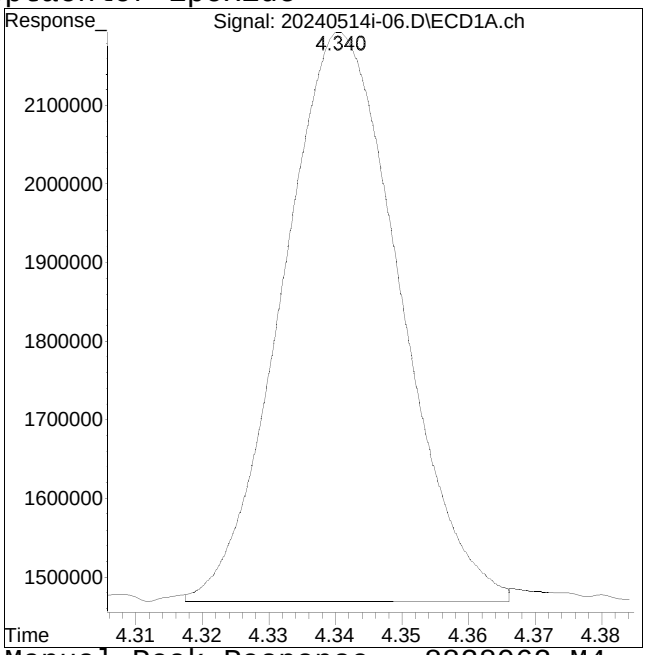
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-06.D
Date Inj'd : 5/14/2024 5:35 pm
Sample : il4pest,42e,,pp 11582 L0.0
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 11:56 am

Compound #12: Heptachlor Epoxide



Original Peak Response = 9033918



Manual Peak Response = 8828062 M4

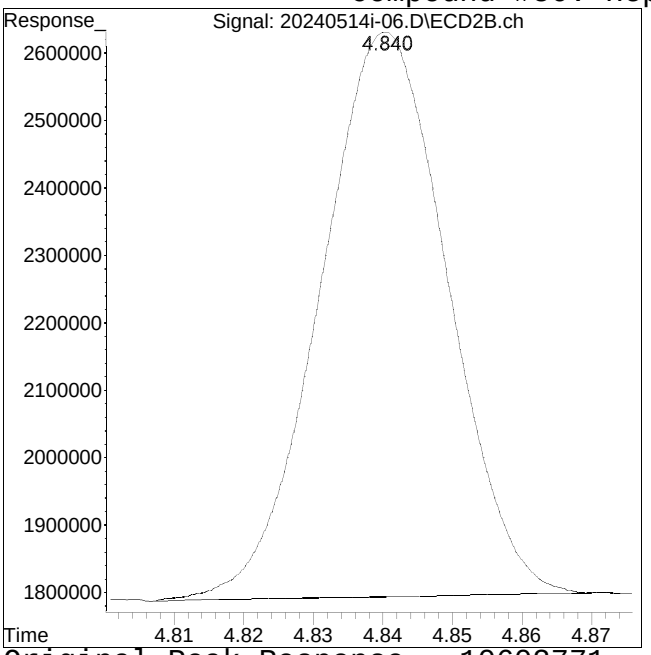
M4 = Poor automated baseline construction.

Manual Integration Report

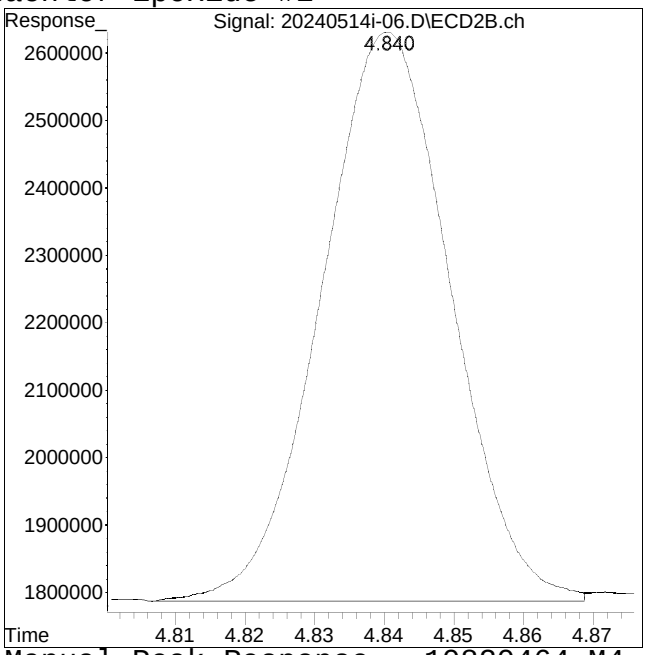
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-06.D
Date Inj'd : 5/14/2024 5:35 pm
Sample : il4pest,42e,,pp 11582 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 11:56 am

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 10602771



Manual Peak Response = 10820464 M4

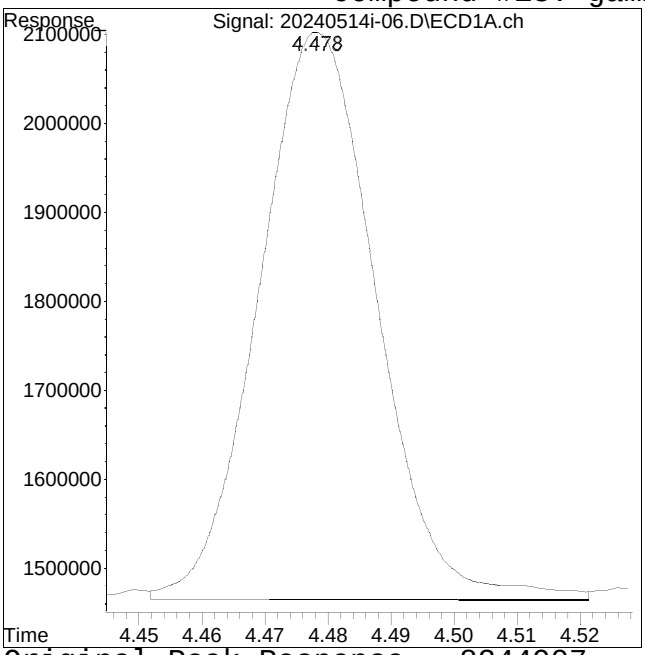
M4 = Poor automated baseline construction.

Manual Integration Report

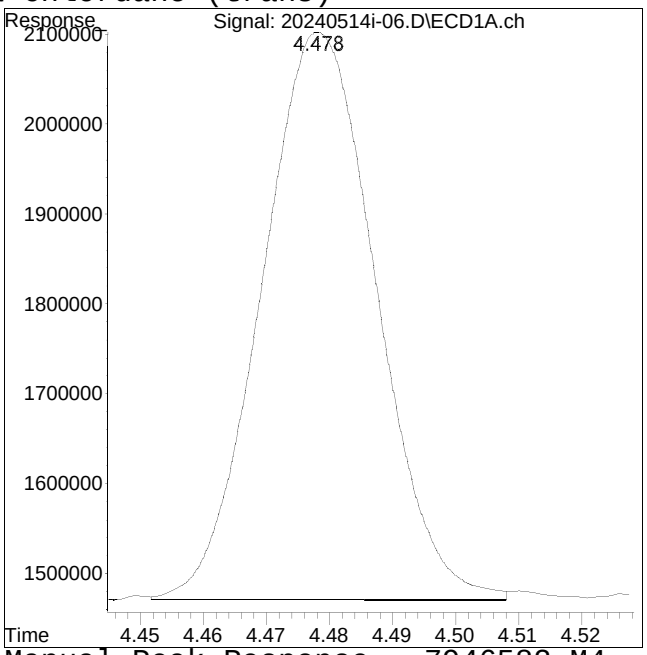
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-06.D
Date Inj'd : 5/14/2024 5:35 pm
Sample : il4pest,42e,,pp 11582 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 11:56 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 8244907



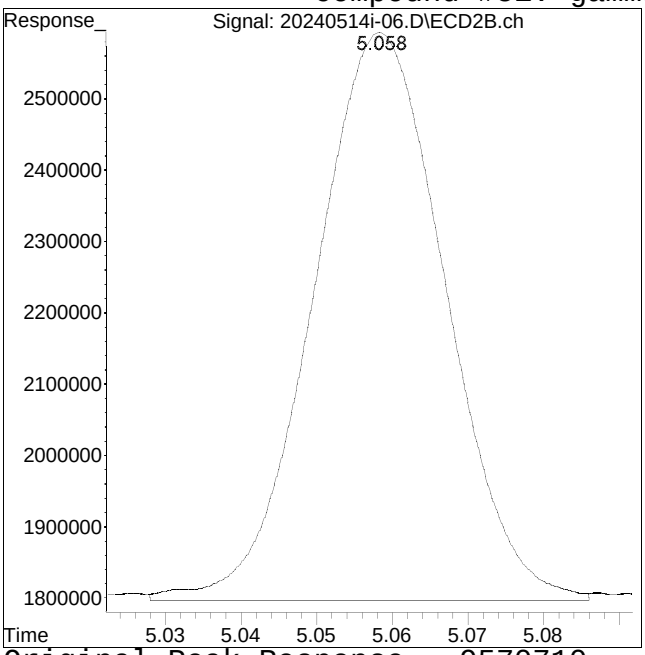
Manual Peak Response = 7946582 M4

M4 = Poor automated baseline construction.

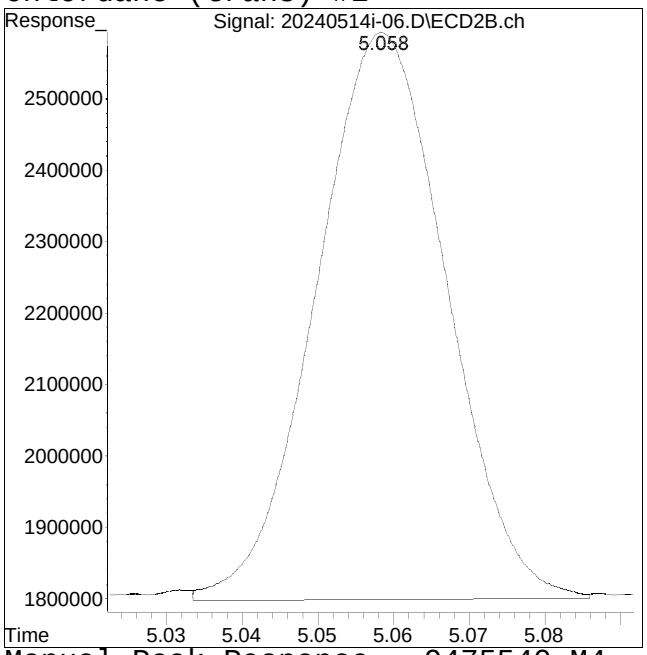
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 9570710



Manual Peak Response = 9475540 M4

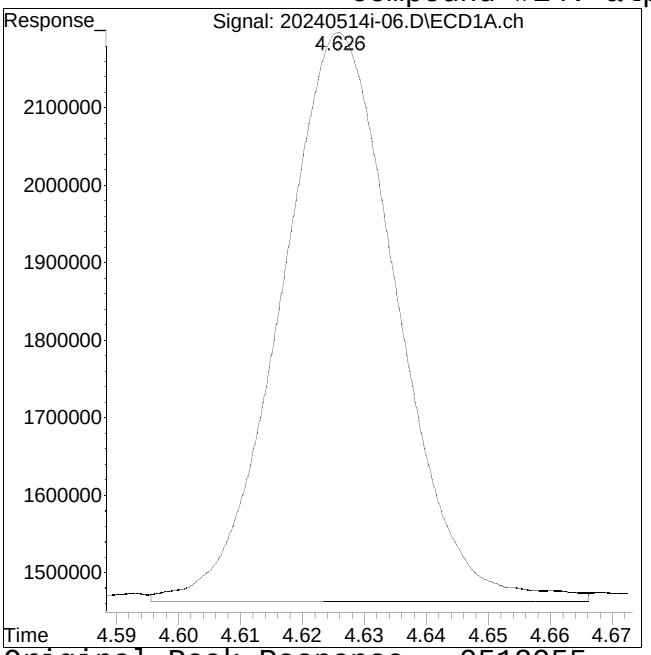
M4 = Poor automated baseline construction.

Manual Integration Report

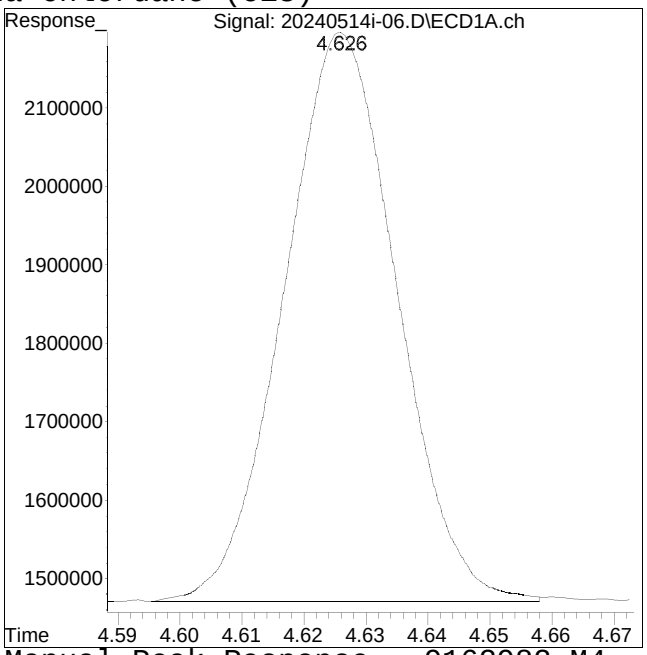
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-06.D
Date Inj'd : 5/14/2024 5:35 pm
Sample : il4pest,42e,,pp 11582 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 11:56 am

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 9512955



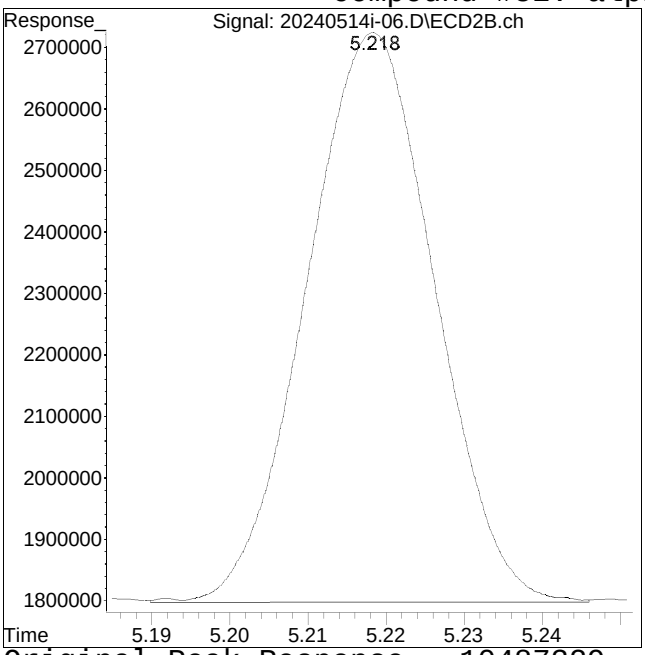
Manual Peak Response = 9162982 M4

M4 = Poor automated baseline construction.

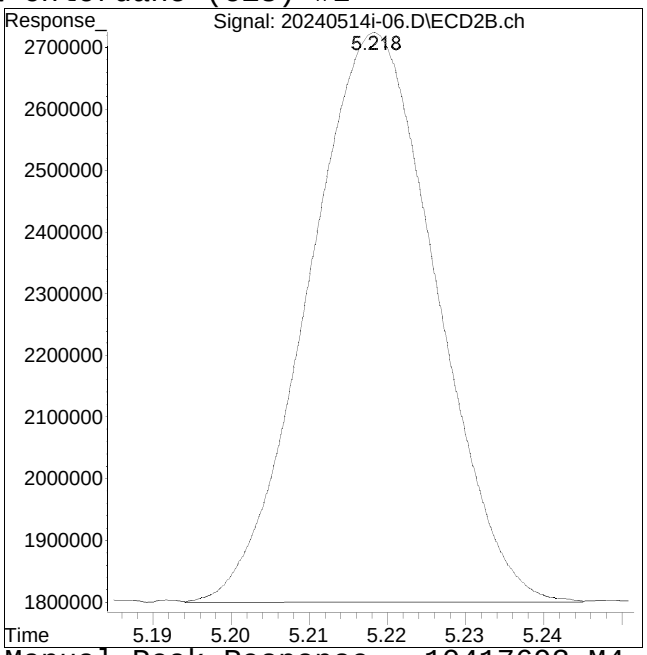
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 10487329



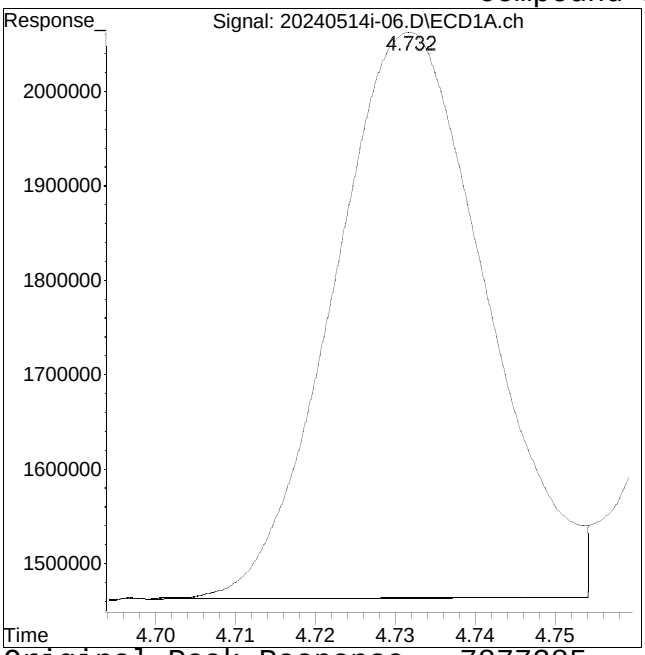
Manual Peak Response = 10417693 M4

M4 = Poor automated baseline construction.

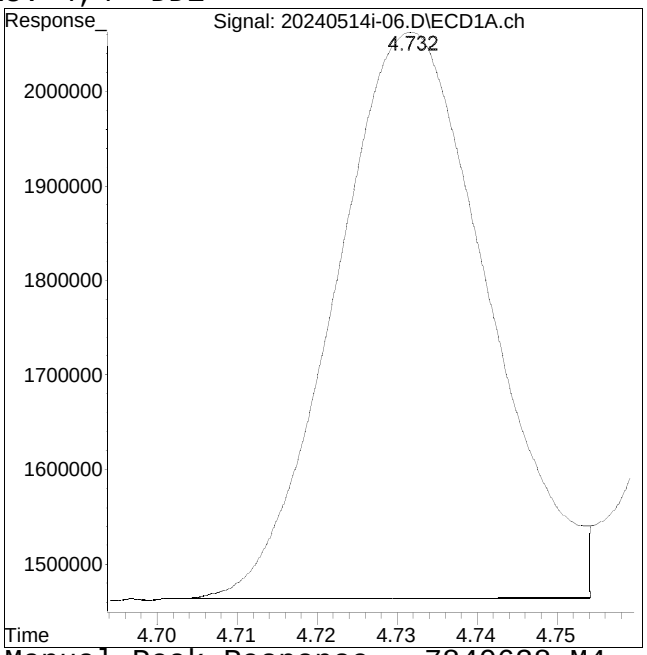
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #15: 4,4'-DDE



Original Peak Response = 7877385



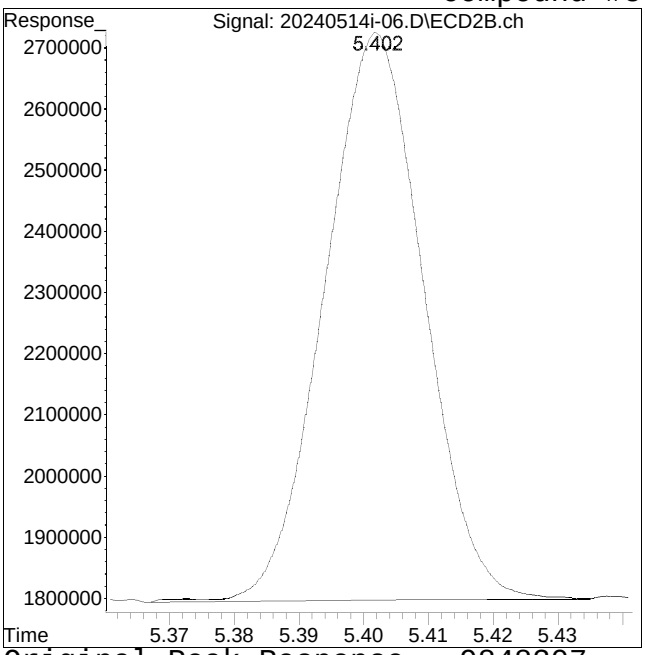
Manual Peak Response = 7840638 M4

M4 = Poor automated baseline construction.

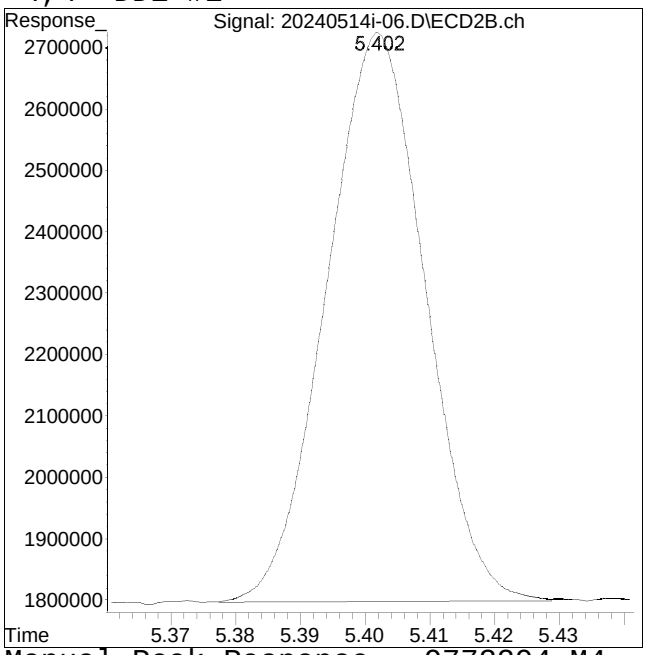
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 9848307



Manual Peak Response = 9773294 M4

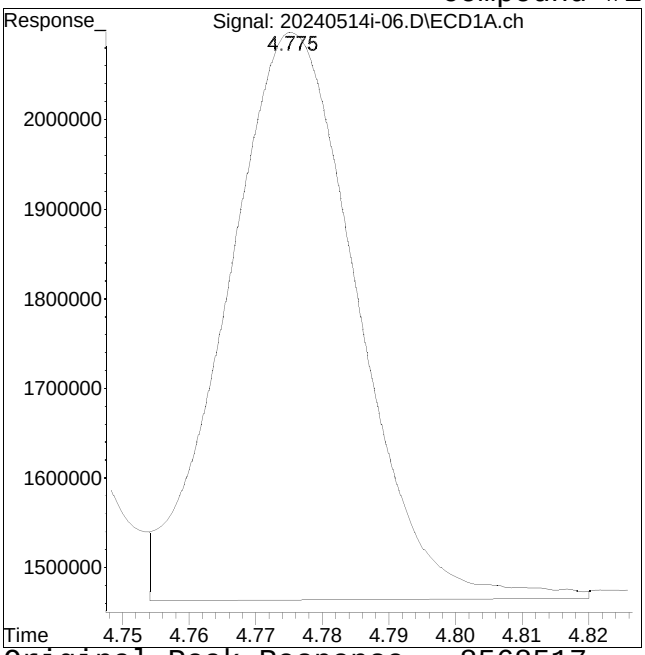
M4 = Poor automated baseline construction.

Manual Integration Report

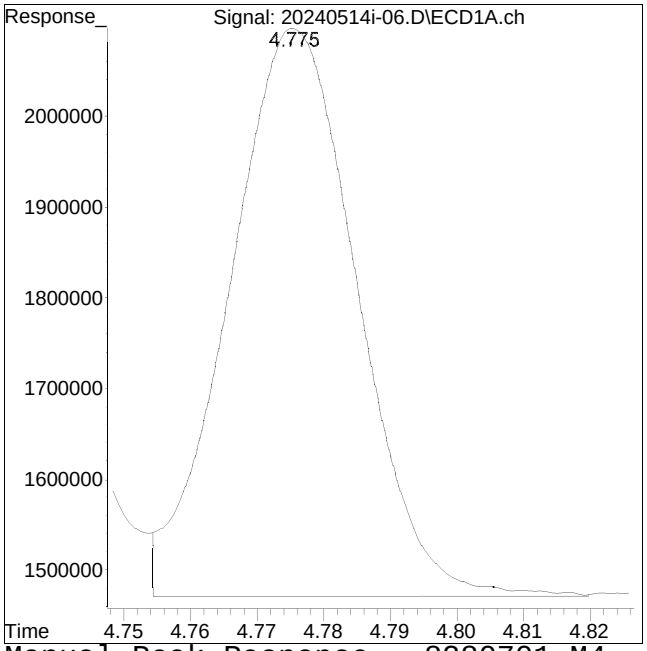
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-06.D
Date Inj'd : 5/14/2024 5:35 pm
Sample : il4pest,42e,,pp 11582 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 11:56 am

Compound #16: Endosulfan I



Original Peak Response = 8568517



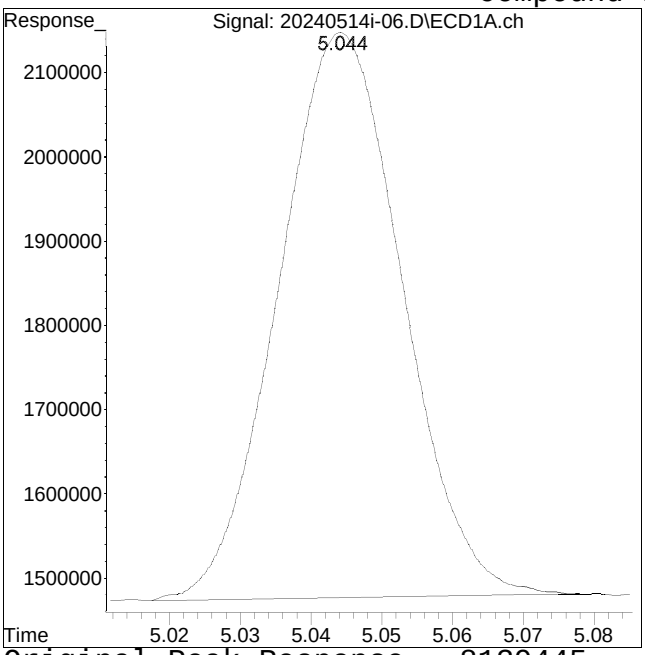
Manual Peak Response = 8280701 M4

M4 = Poor automated baseline construction.

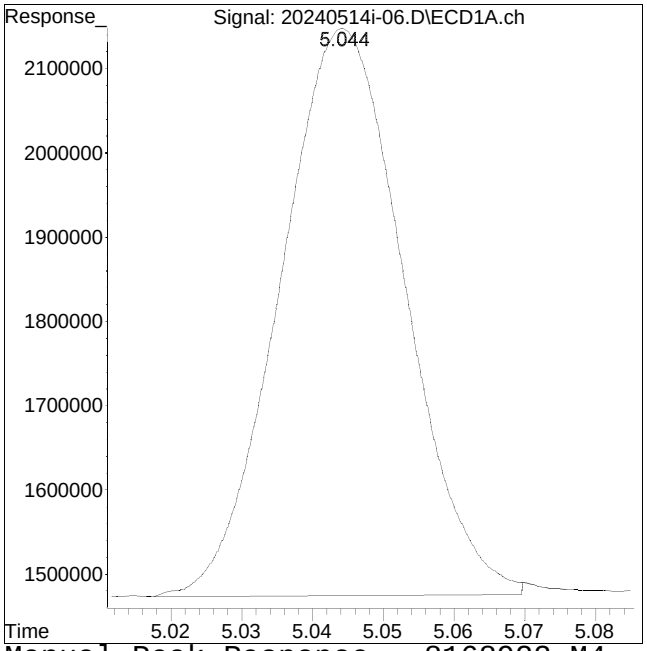
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #17: Dieldrin



Original Peak Response = 8139445



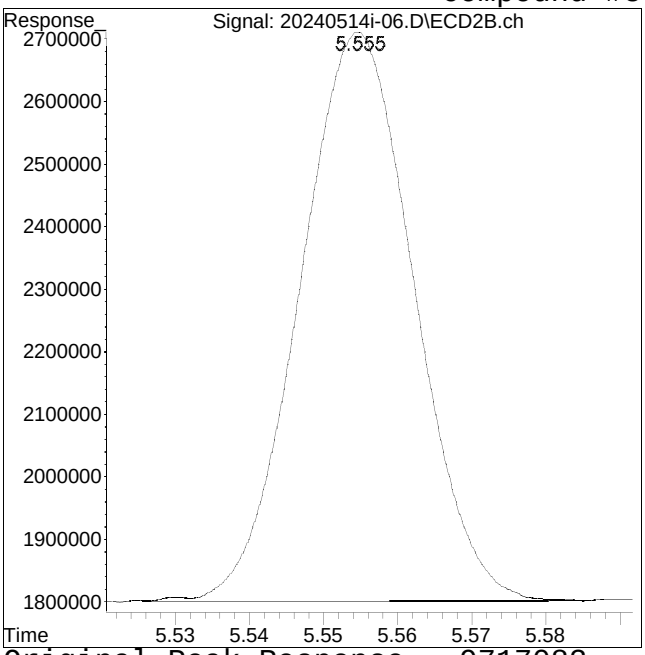
Manual Peak Response = 8168922 M4

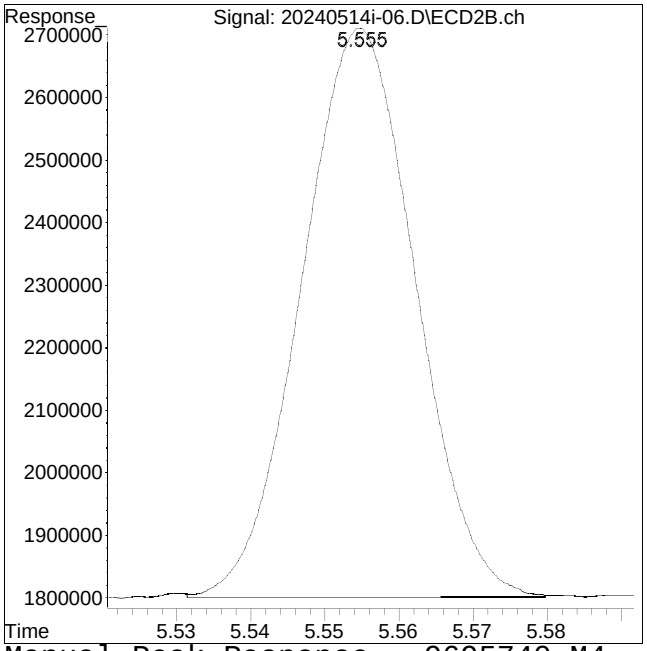
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #55: Dieldrin #2



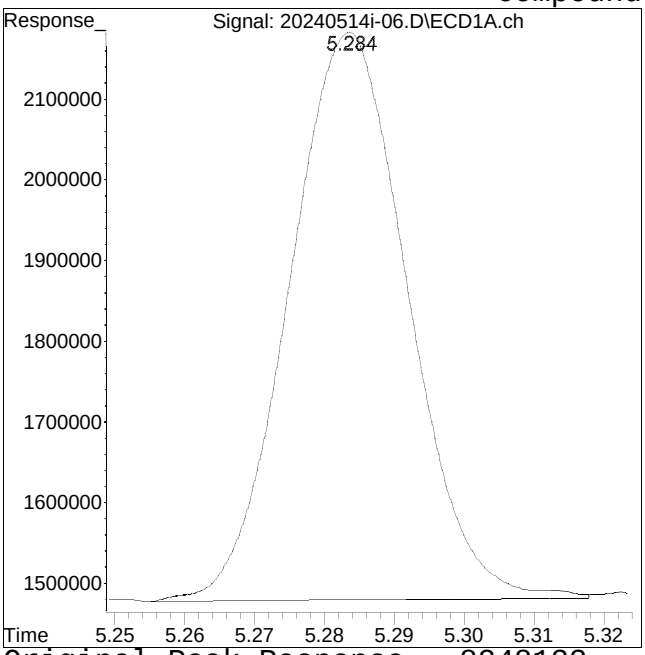


Original Peak Response = 9717083 Manual Peak Response = 9695740 M4
M4 = Poor automated baseline construction.

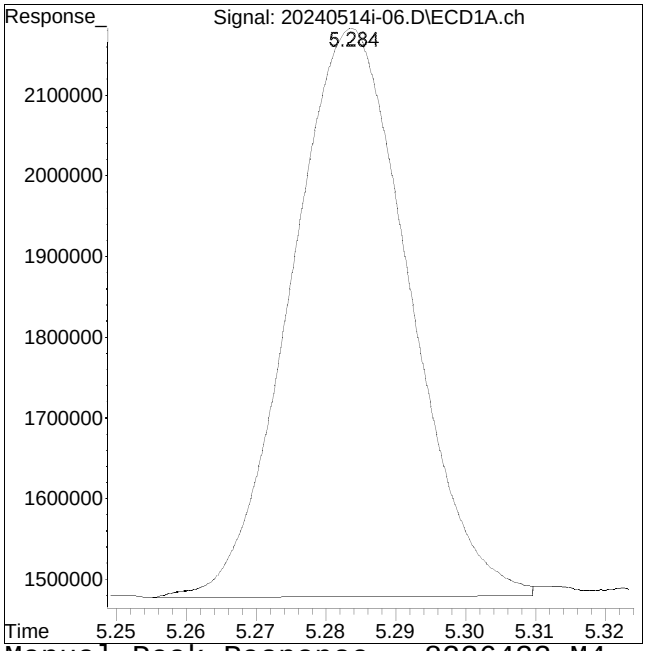
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #18: Endrin



Original Peak Response = 8248123



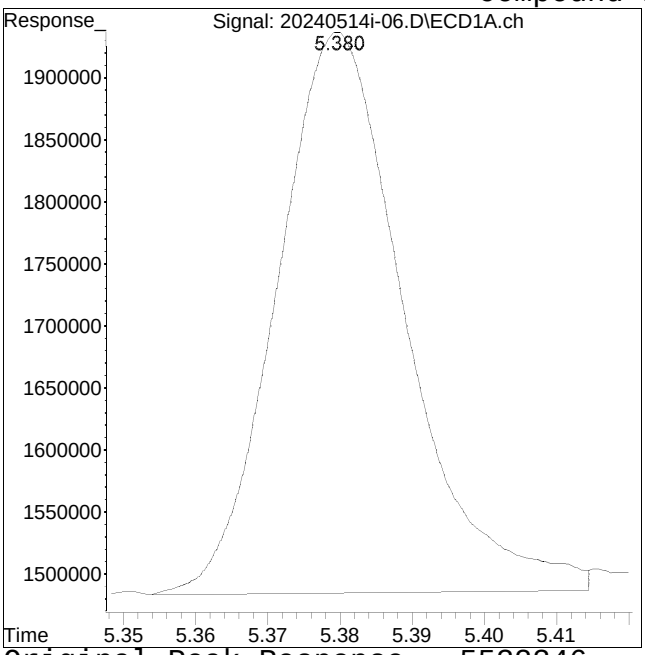
Manual Peak Response = 8236432 M4

M4 = Poor automated baseline construction.

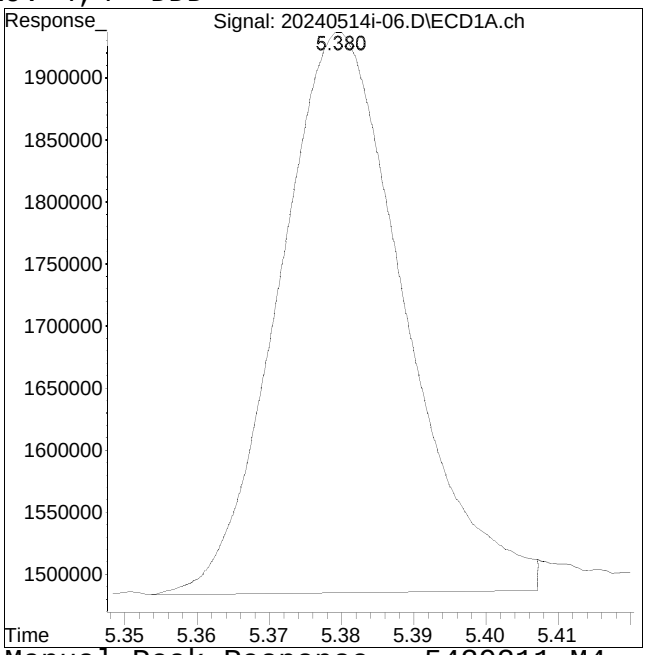
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #19: 4,4'-DDD



Original Peak Response = 5532346



Manual Peak Response = 5429211 M4

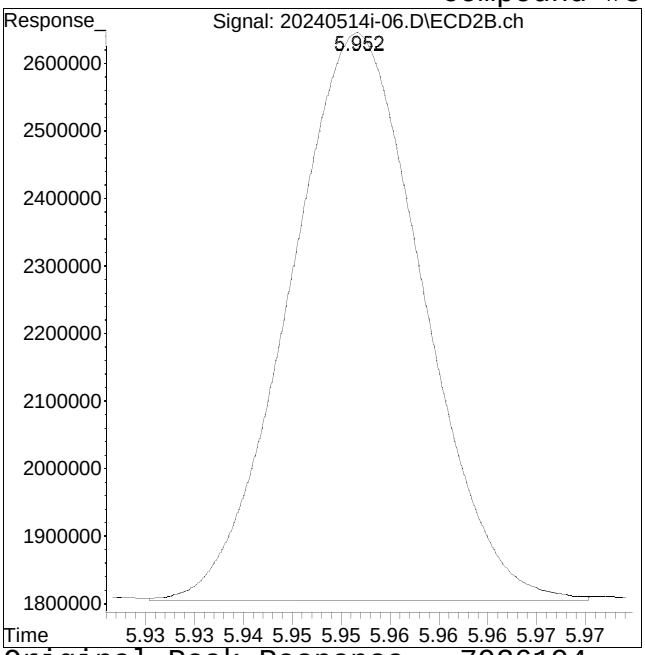
M4 = Poor automated baseline construction.

Manual Integration Report

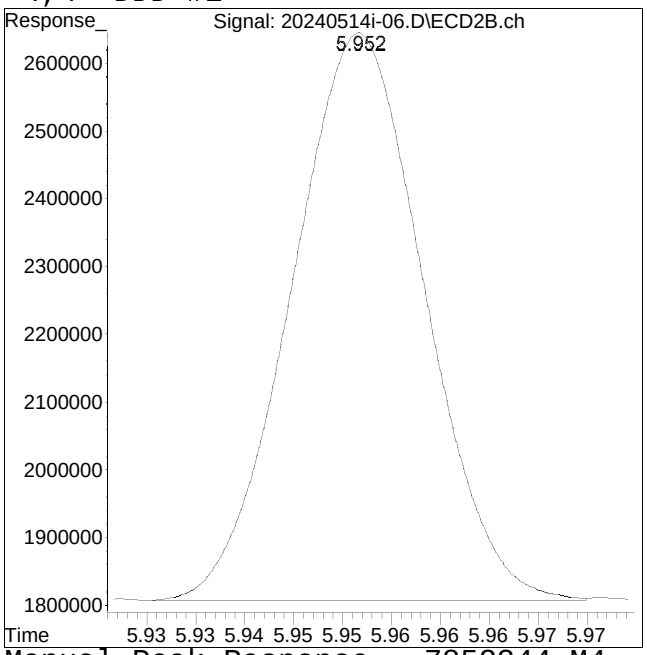
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-06.D
Date Inj'd : 5/14/2024 5:35 pm
Sample : il4pest,42e,,pp 11582 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 11:56 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 7926194



Manual Peak Response = 7852344 M4

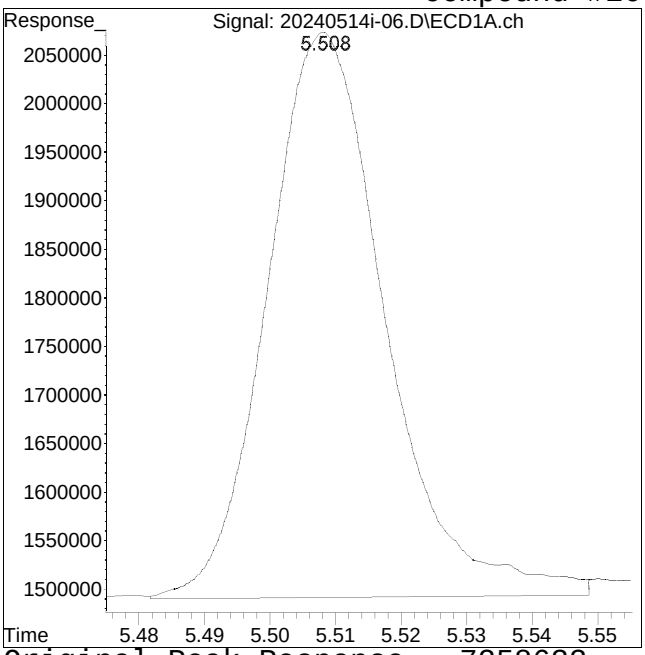
M4 = Poor automated baseline construction.

Manual Integration Report

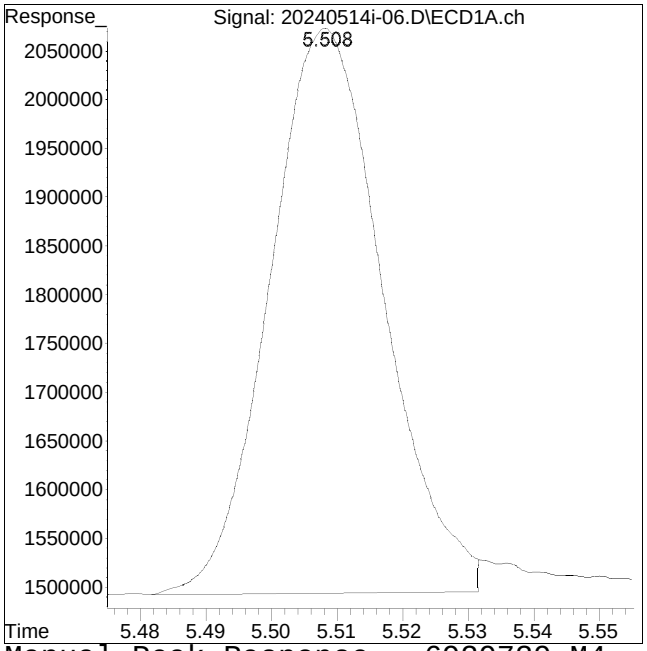
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-06.D
Date Inj'd : 5/14/2024 5:35 pm
Sample : il4pest,42e,,pp 11582 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 11:56 am

Compound #20: Endosulfan II



Original Peak Response = 7258633



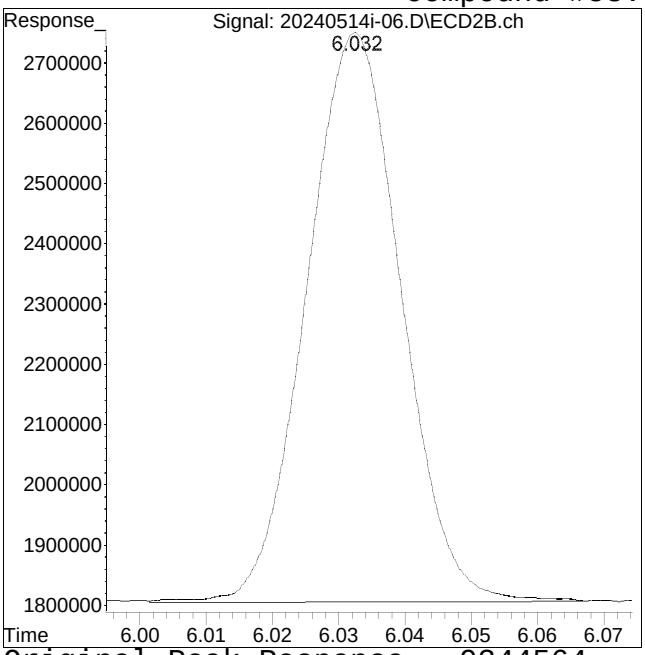
Manual Peak Response = 6929739 M4

M4 = Poor automated baseline construction.

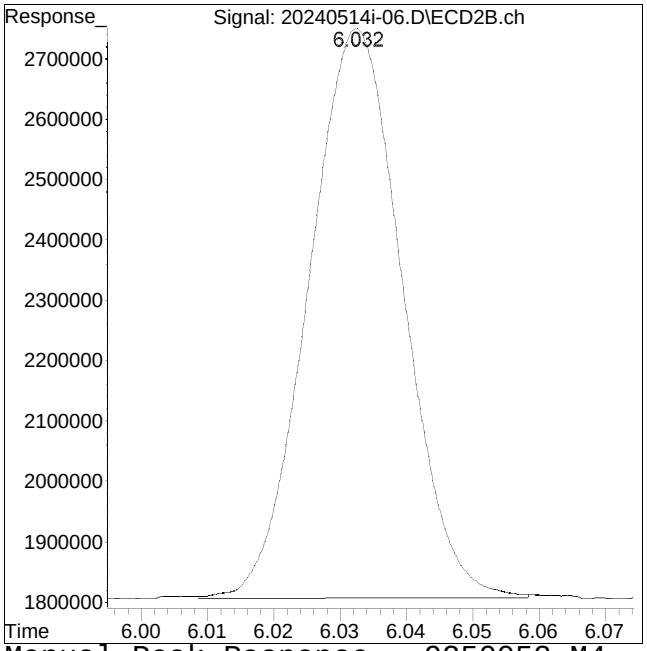
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #58: Endosulfan II #2



Original Peak Response = 9344564



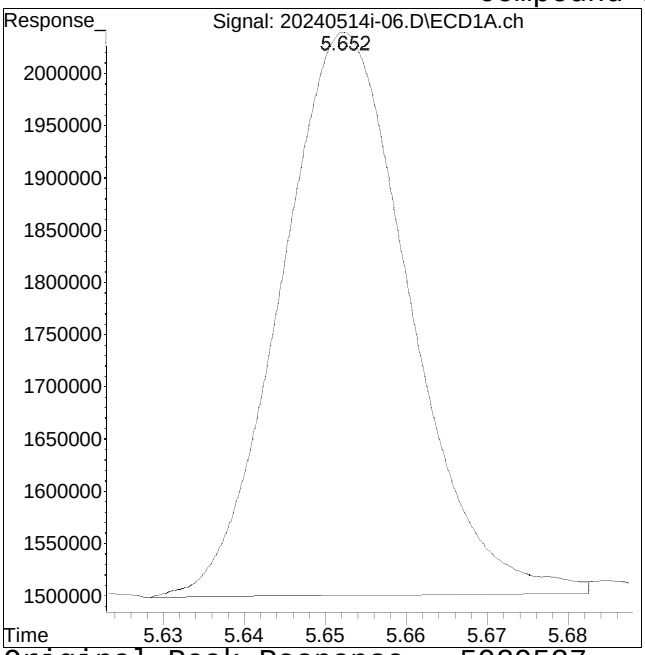
Manual Peak Response = 9250052 M4

M4 = Poor automated baseline construction.

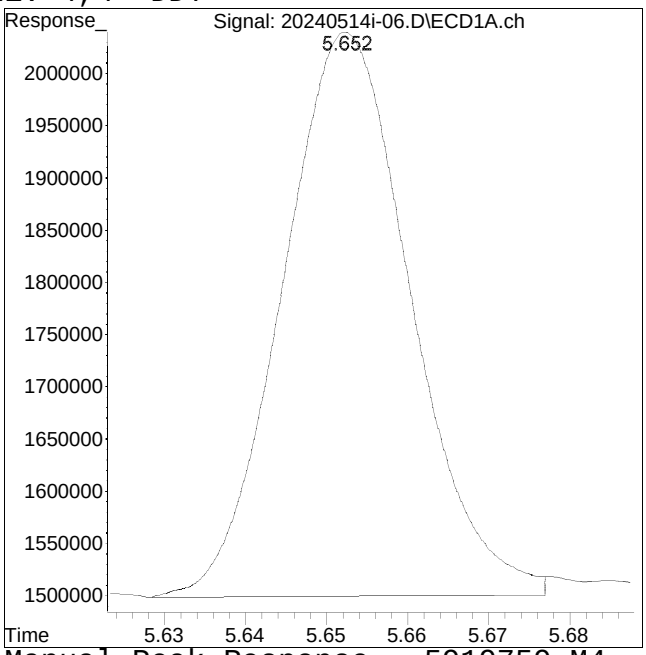
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #21: 4,4'-DDT



Original Peak Response = 5929537



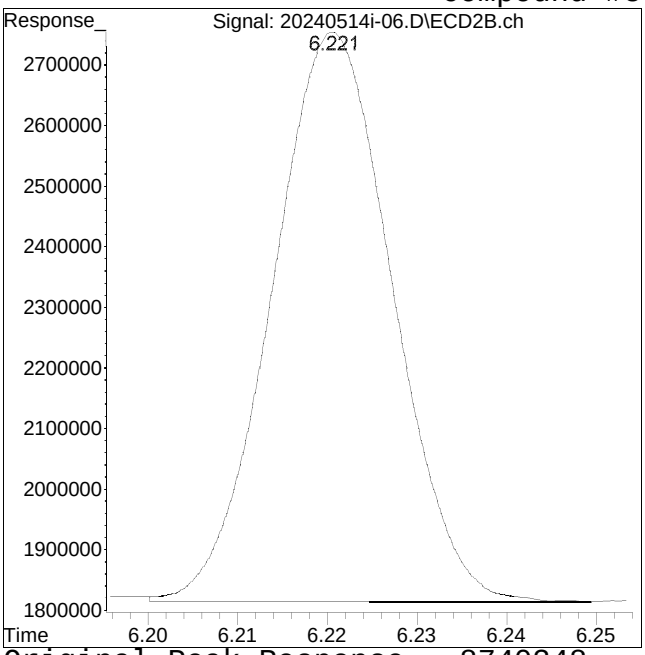
Manual Peak Response = 5919759 M4

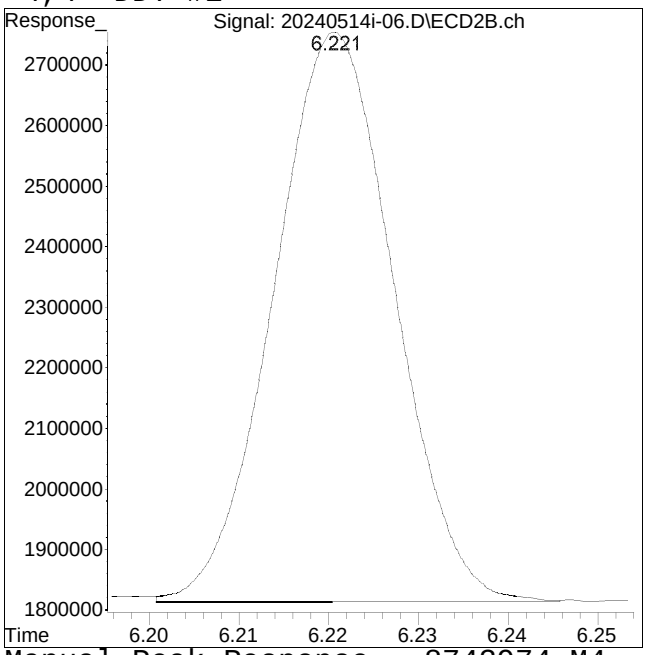
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #59: 4,4'-DDT #2



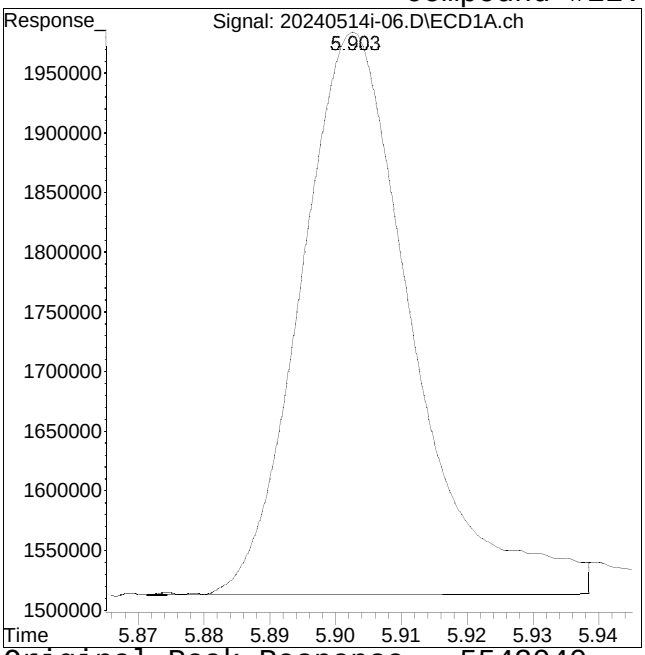


Original Peak Response = 8740348 Manual Peak Response = 8743974 M4
M4 = Poor automated baseline construction.

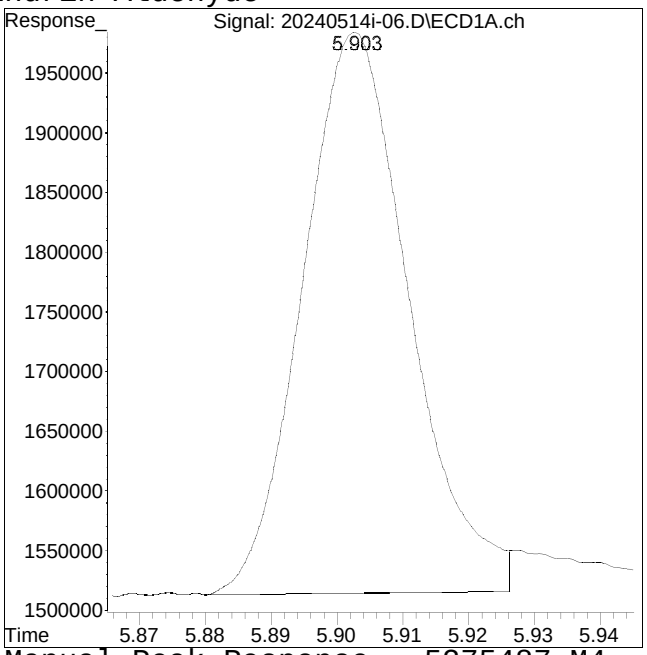
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #22: Endrin Aldehyde



Original Peak Response = 5543040



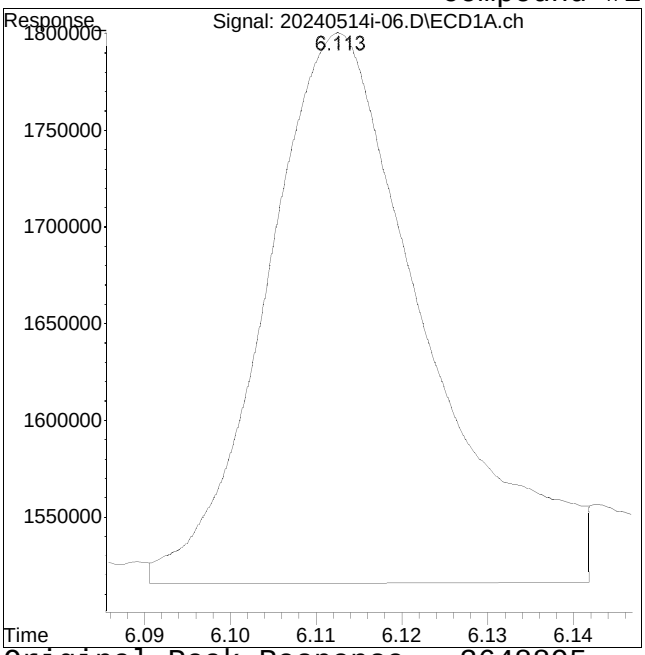
Manual Peak Response = 5275487 M4

M4 = Poor automated baseline construction.

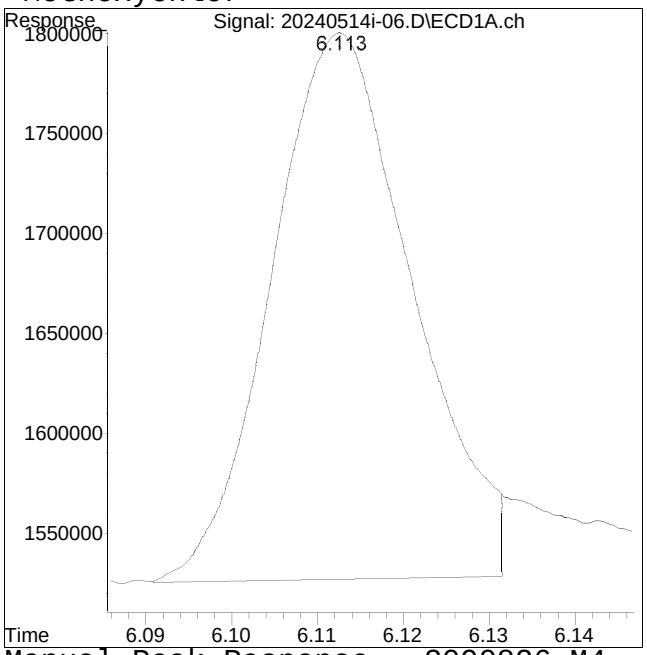
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #23: Methoxychlor



Original Peak Response = 3648895



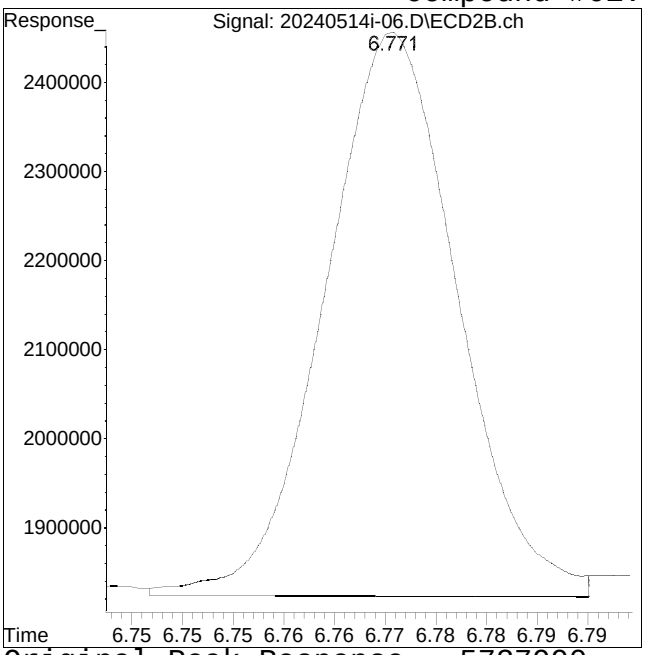
Manual Peak Response = 3090826 M4

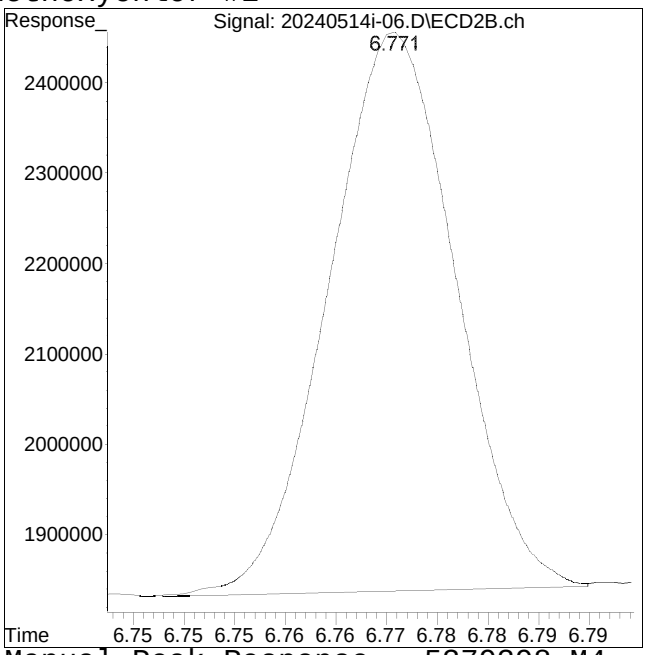
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #61: Methoxychlor #2



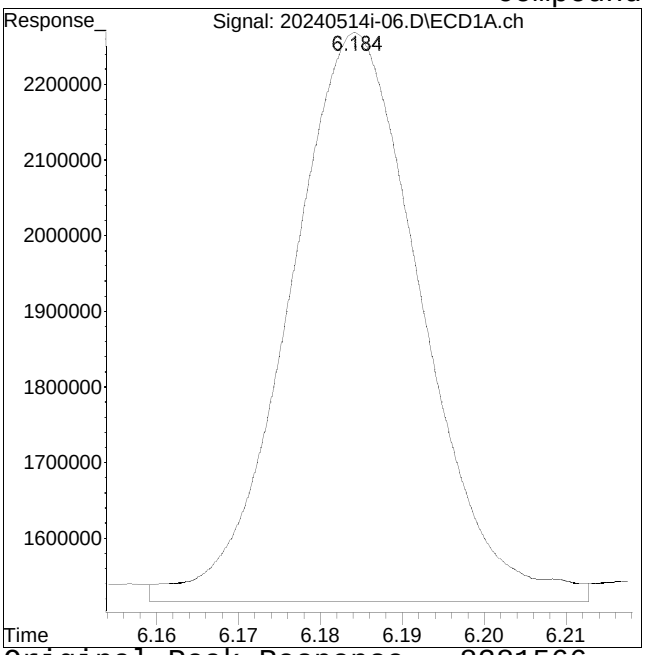


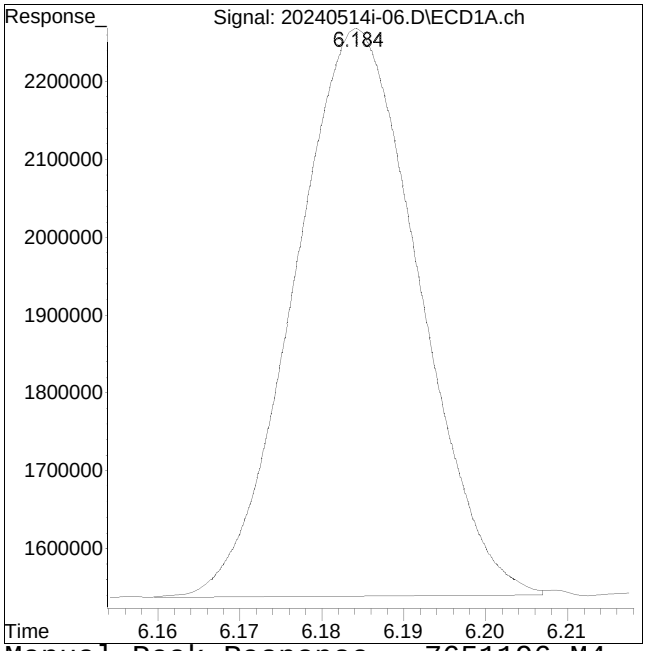
Original Peak Response = 5737990 Manual Peak Response = 5379398 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #24: Mirex





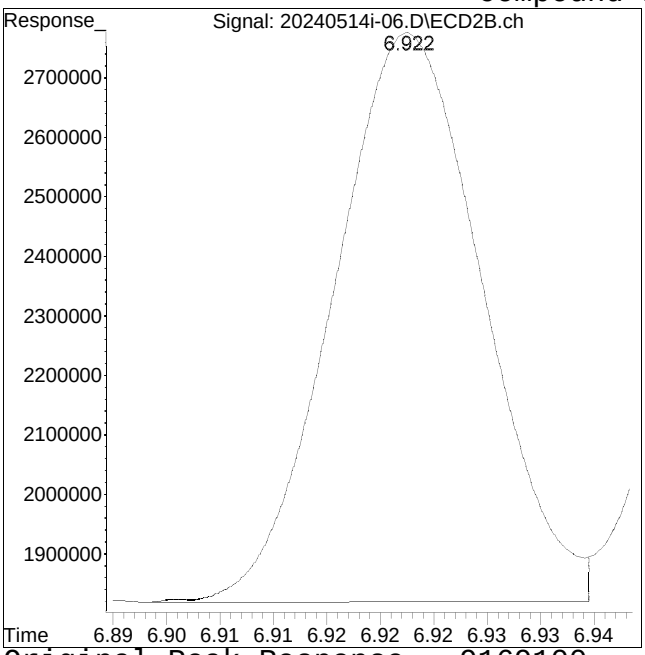
Original Peak Response = 8381566 Manual Peak Response = 7651196 M4
M4 = Poor automated baseline construction.

Manual Integration Report

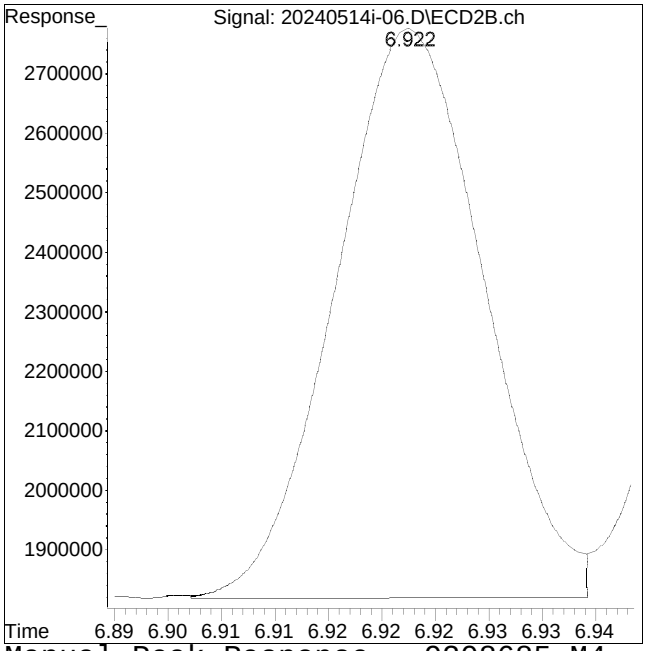
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-06.D
Date Inj'd : 5/14/2024 5:35 pm
Sample : il4pest,42e,,pp 11582 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 11:56 am

Compound #62: Mirex #2



Original Peak Response = 9169100



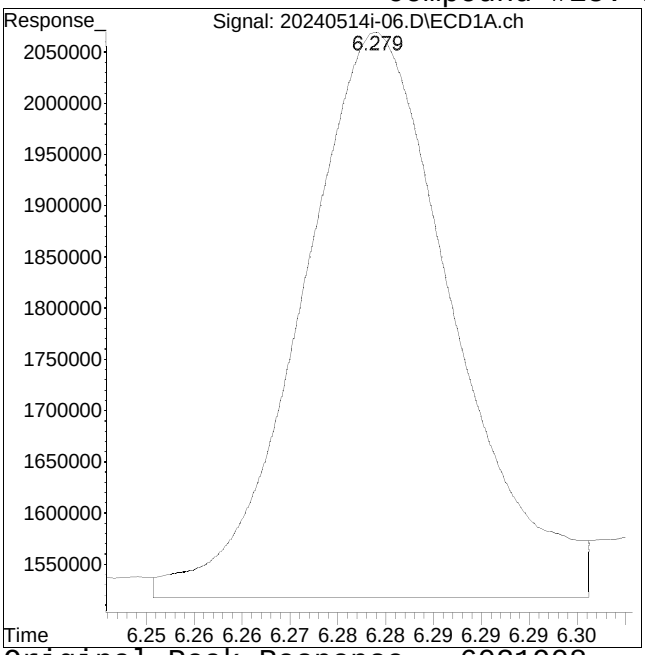
Manual Peak Response = 9208685 M4

M4 = Poor automated baseline construction.

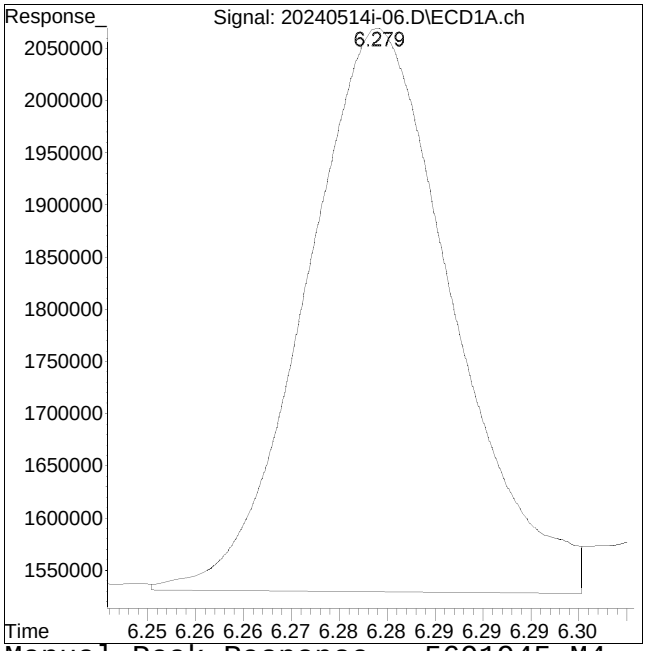
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #25: Endosulfan Sulfate



Original Peak Response = 6021908



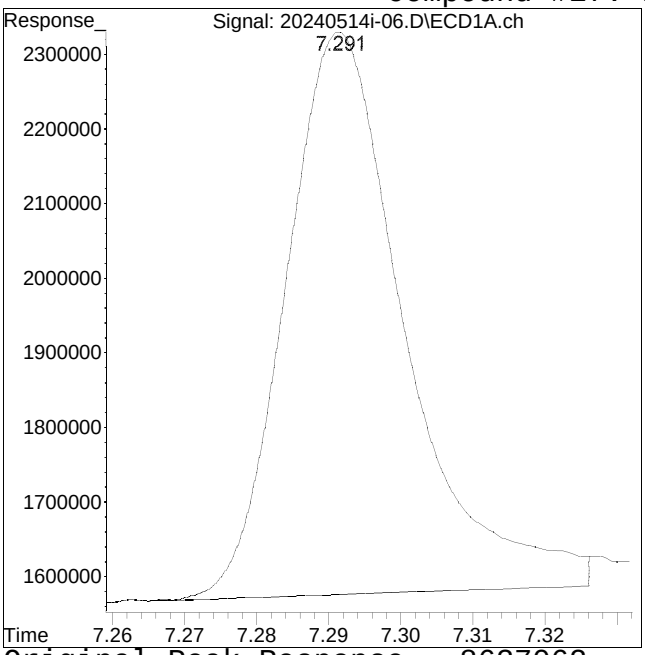
Manual Peak Response = 5691945 M4

M4 = Poor automated baseline construction.

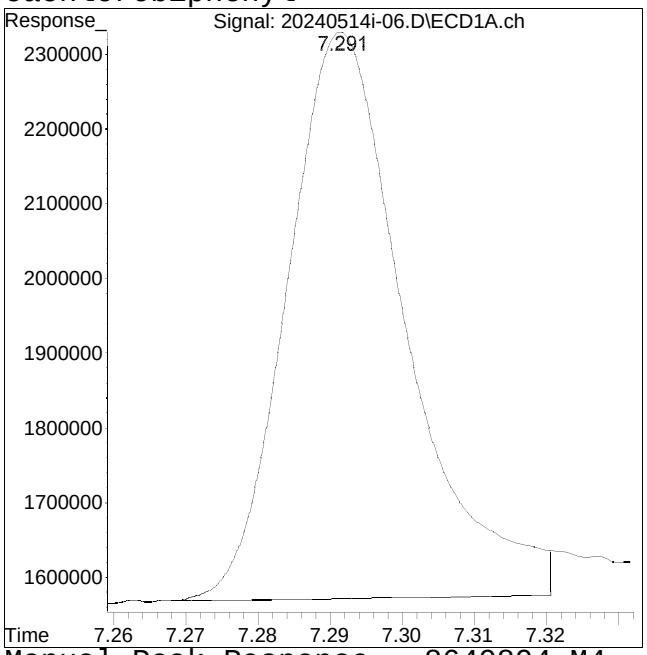
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 8637062



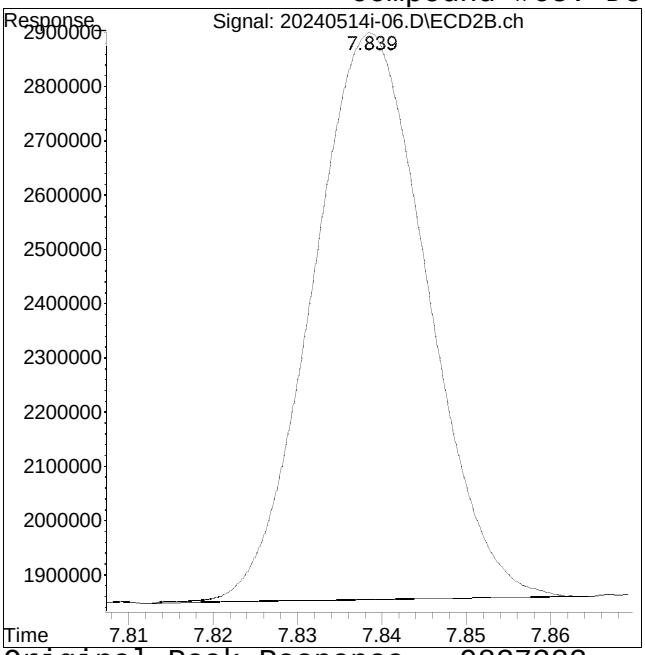
Manual Peak Response = 8649894 M4

M4 = Poor automated baseline construction.

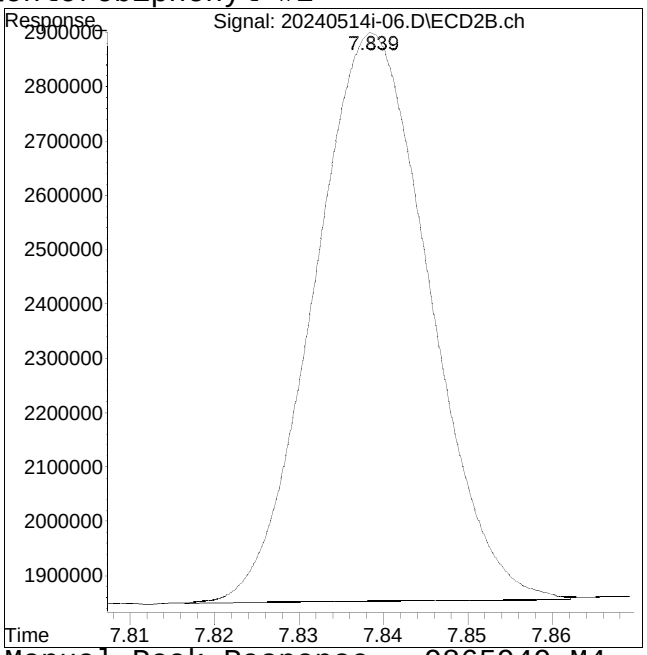
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-06.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:35 pm Instrument : PEST 20
Sample : il4pest,42e,,pp 11582 L0.0Quant Date : 5/16/2024 11:56 am

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 9837323



Manual Peak Response = 9865949 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 05:47 pm
Operator : pest20:peg
Sample : il5pest,42e,,pp 11581 L0.004 (Sig #1); il5pest,42e,,pp 11568 L0.004 (Sig #2)
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 10:46:55 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 10:45:22 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.933	1.971	51351775	68211240	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.405	2.576	9946019	12586314	4.677M4	4.501M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		9.35%#	9.00%#
27) s	Decachlorobi	7.291	7.838	11050076	12616295	5.286M4	5.176M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		10.57%#	10.35%#
	Target Compounds						
3)	Hexachlorobe	2.675	2.953	11228630	14166362	5.085M4	4.891M4
4)	alpha-BHC	2.798	3.067	11243444	14618744	4.127M4	3.972M4
5)	gamma-BHC (l	3.043	3.391	10770885	14023140	4.315M4	4.152M4
6)	beta-BHC	3.112	3.465	6056253	7734082	5.136M4	4.867M4
7)	delta-BHC	3.262	3.760	8954509	13378857	3.805M4	3.939M4
8)	Heptachlor	3.450	3.830	11427940	14186113	4.723M4	4.501M4
9)	Aldrin	3.728	4.179	11043865	13066045	4.464M4	4.229
10)	Alachlor	3.871	4.056	1602648	2345375	4.872M4	5.221M4
11)	Chlorpyrifos	3.973	4.437	5503408	8297807	5.233M4	5.485M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 05:47 pm
Operator : pest20:peg
Sample : il5pest,42e,,pp 11581 L0.004 (Sig #1); il5pest,42e,,pp 11568 L0.004 (Sig #2)
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 10:46:55 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 10:45:22 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)		Heptachlor E	4.340	4.840	11244304	14110333	4.872M4	4.711M4
13)		gamma-Chlord	4.477	5.058	10204109	12014714	4.788M4	4.523M4
14)		alpha-Chlord	4.624	5.218	11863414	13377766	4.923M4	4.526M4
15)		4,4'-DDE	4.730	5.401	10335927	12630705	4.410M4	4.216M4
16)		Endosulfan I	4.774	5.276	10684656	12480436	4.790M4	4.501M4
17)		Dieldrin	5.043	5.554	10592624	12467229	4.540M4	4.295M4
18)		Endrin	5.283	5.841	10528227	12644518	4.522	4.290M4
19)		4,4'-DDD	5.378	5.951	7173990	10154973	4.047M4	4.173M4
20)		Endosulfan I	5.507	6.032	9115335	11842172	4.585M4	4.522M4
21)		4,4'-DDT	5.651	6.221	7976506	11280992	4.305M4	4.310
22)		Endrin Aldeh	5.901	6.319	6994609	9736343	4.326M4	4.432M4
23)		Methoxychlor	6.111	6.771	4223833	6928155	4.462M4	4.840M4
24)		Mirex	6.183	6.922	9924670	11662293	5.370M4	5.303M4
25)		Endosulfan S	6.278	6.544	7375722	11304248	4.391M4	4.637
26)		Endrin Keton	6.502	6.954	8289369	12870368	4.374M4	4.541M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 05:47 pm
Operator : pest20:peg
Sample : il5pest,42e,,pp 11581 L0.004 (Sig #1); il5pest,42e,,pp 11568 L0.004 (Sig #2)
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 10:46:55 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 10:45:22 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

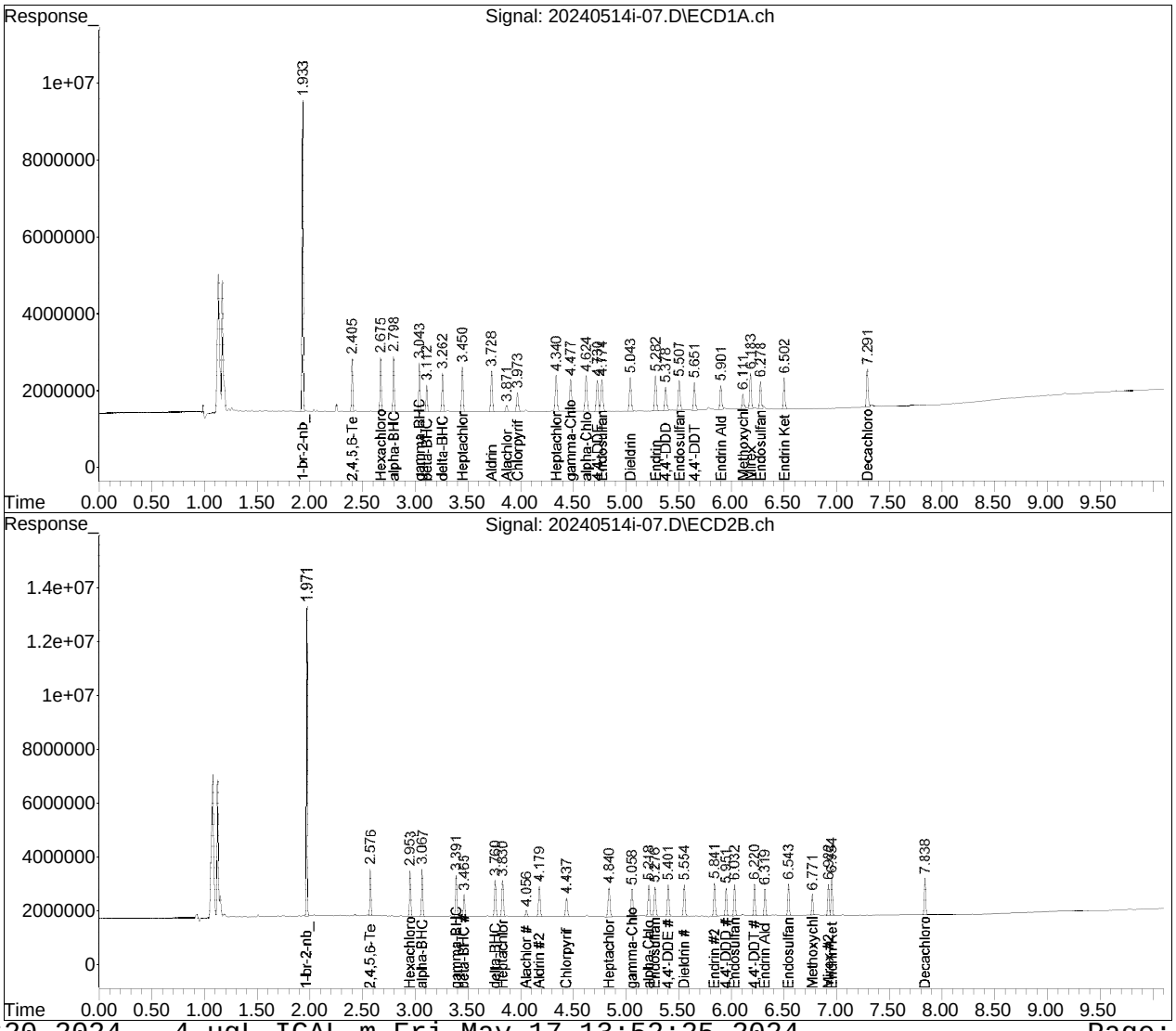
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 05:47 pm
Operator : pest20:peg
Sample : il5pest,42e,,pp 11581 L0.004 (Sig #1); il5pest,42e,,pp 11568 L0.00
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 10:46:55 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 10:45:22 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

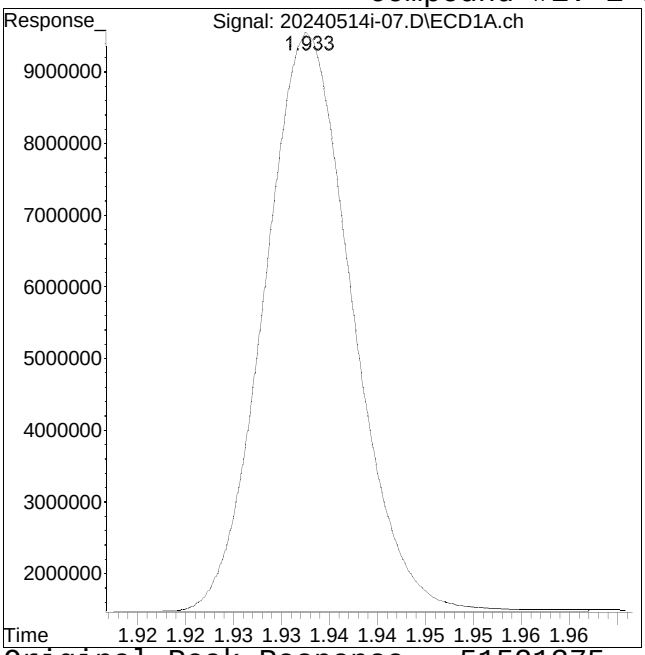


Manual Integration Report

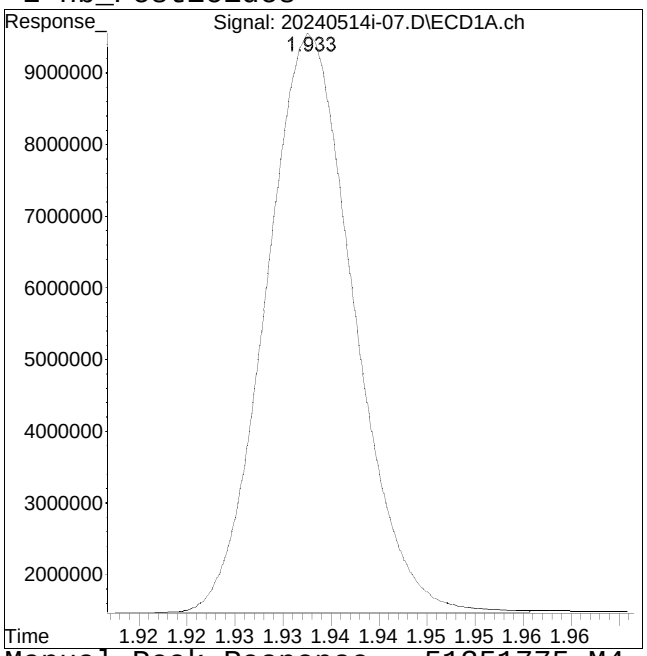
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-07.D
Date Inj'd : 5/14/2024 5:47 pm
Sample : il5pest,42e,,pp 11581 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:46 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 51521375



Manual Peak Response = 51351775 M4

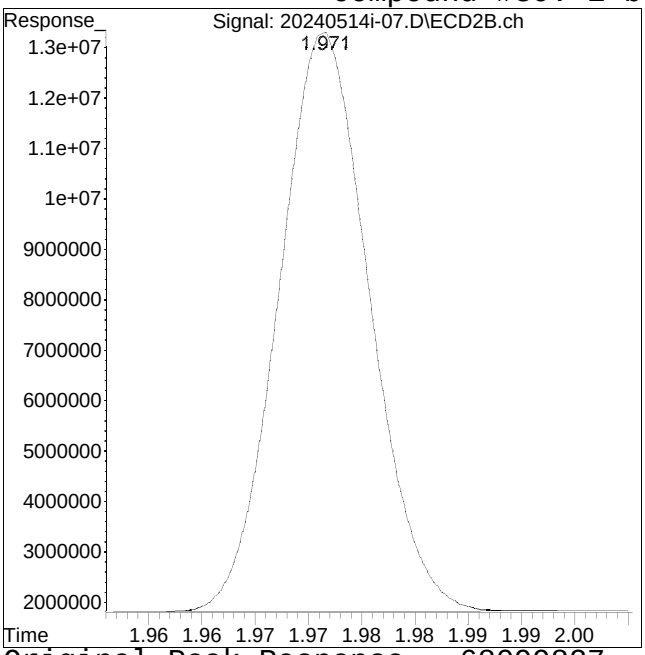
M4 = Poor automated baseline construction.

Manual Integration Report

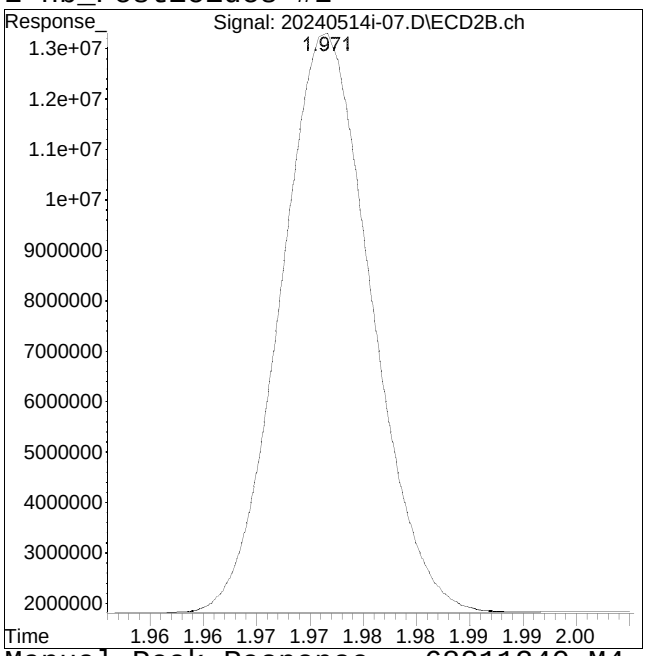
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-07.D
Date Inj'd : 5/14/2024 5:47 pm
Sample : il5pest,42e,,pp 11581 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:46 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 68099827



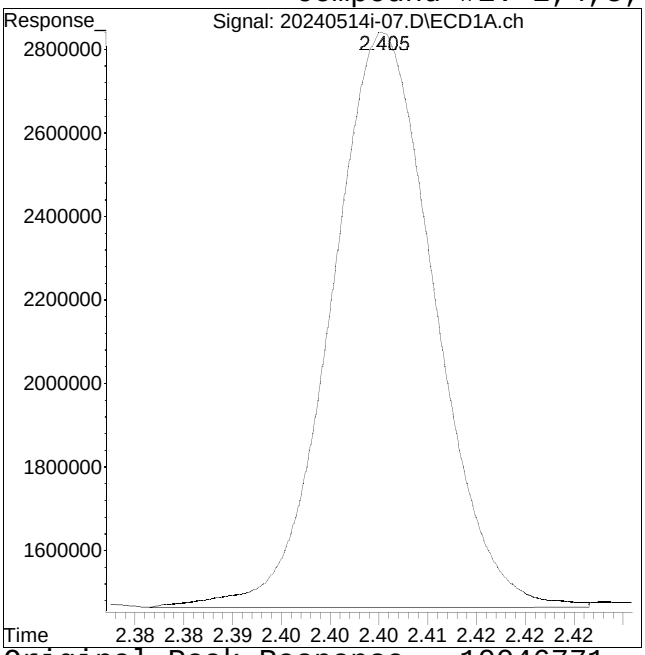
Manual Peak Response = 68211240 M4

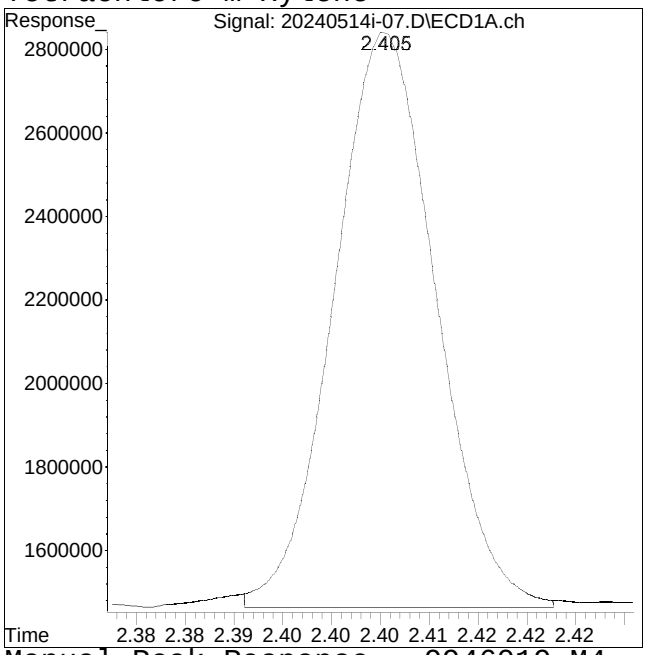
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





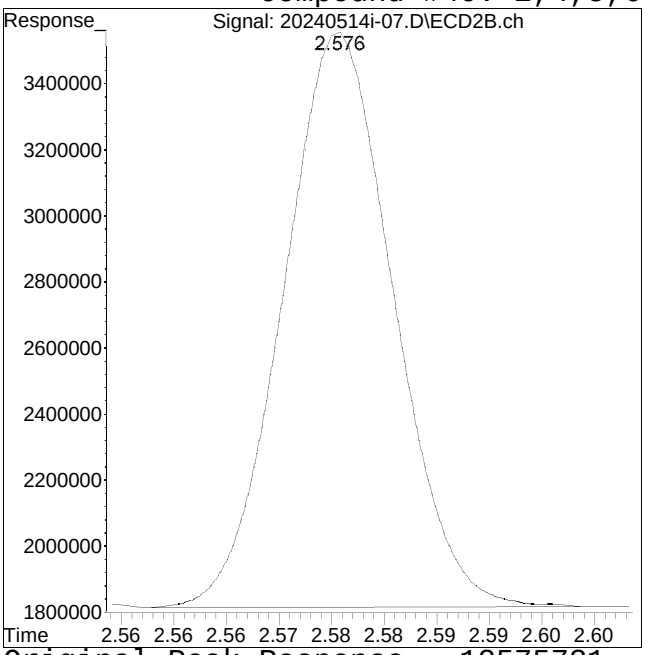
Original Peak Response = 10046771 Manual Peak Response = 9946019 M4
M4 = Poor automated baseline construction.

Manual Integration Report

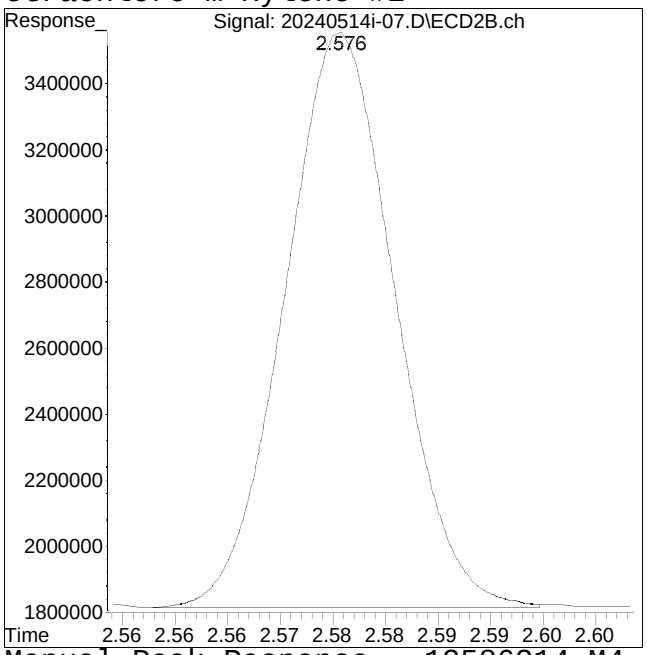
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-07.D
Date Inj'd : 5/14/2024 5:47 pm
Sample : il5pest,42e,,pp 11581 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:46 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 12575731



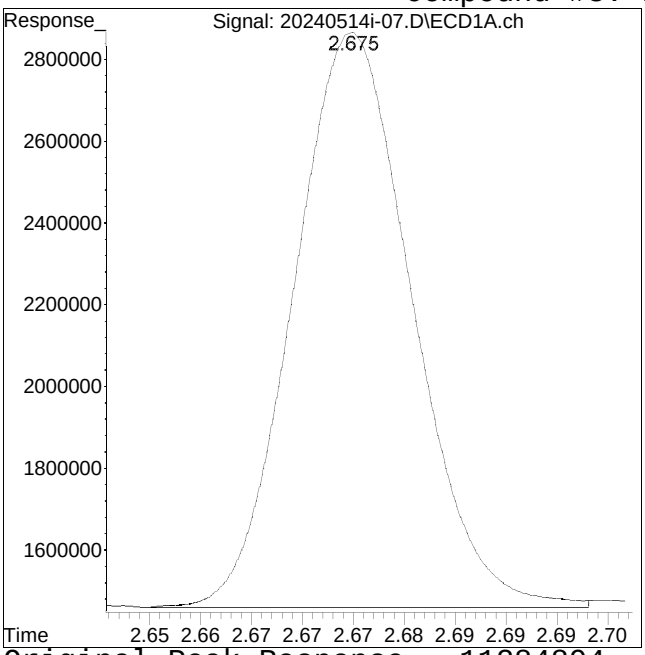
Manual Peak Response = 12586314 M4

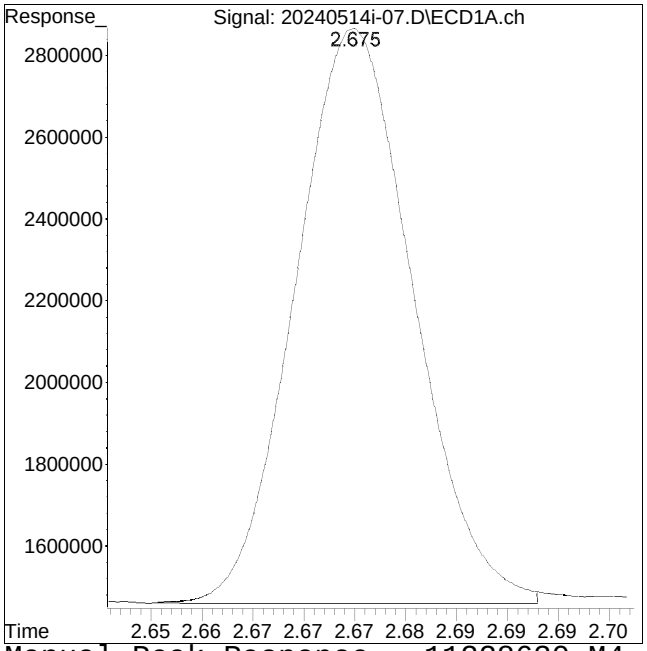
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #3: Hexachlorobenzene



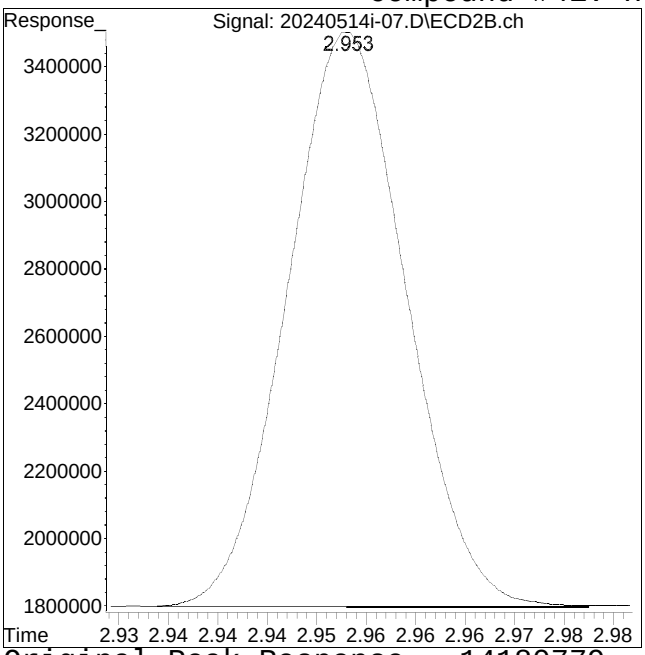


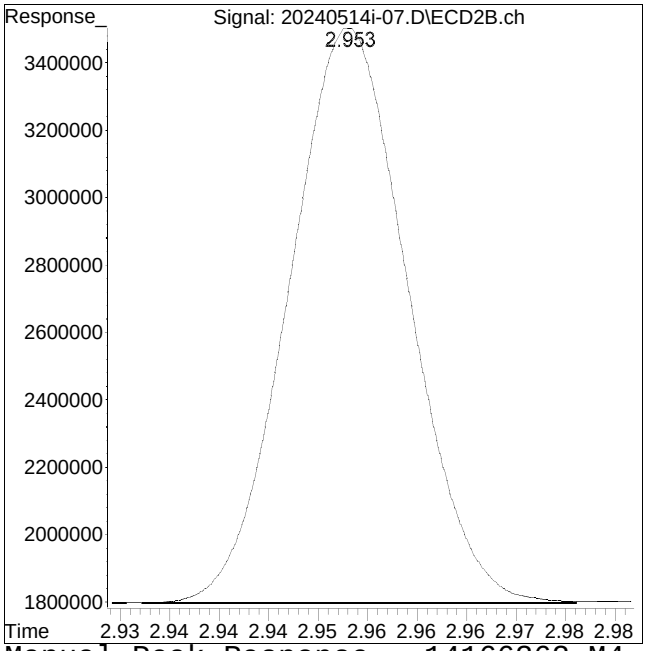
Original Peak Response = 11284894 Manual Peak Response = 11228630 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #41: Hexachlorobenzene #2





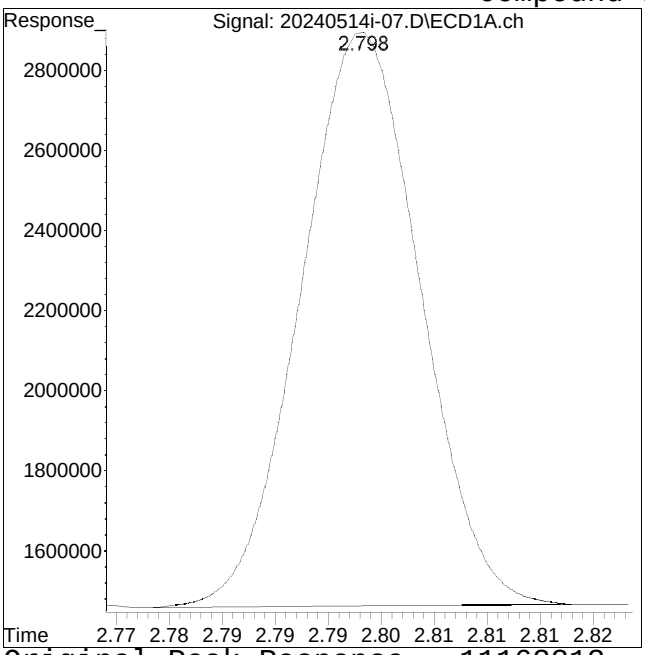
Original Peak Response = 14180779 Manual Peak Response = 14166362 M4
M4 = Poor automated baseline construction.

Manual Integration Report

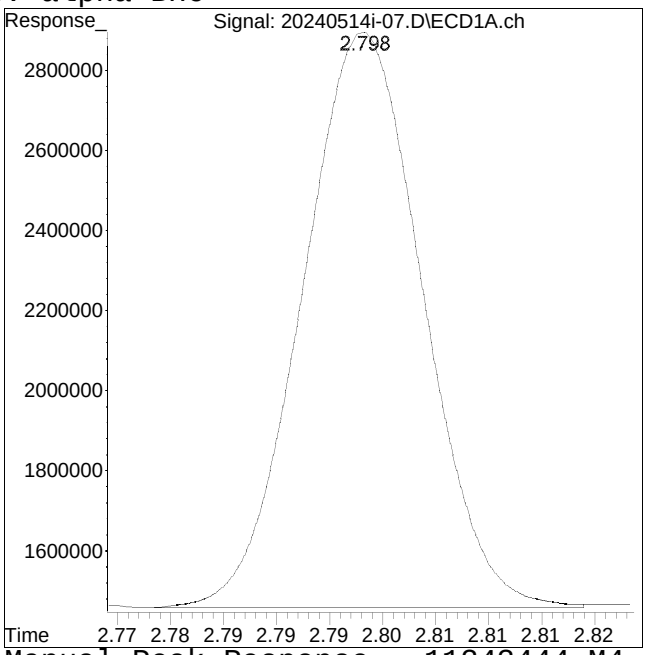
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-07.D
Date Inj'd : 5/14/2024 5:47 pm
Sample : il5pest,42e,,pp 11581 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:46 am

Compound #4: alpha-BHC



Original Peak Response = 11162213



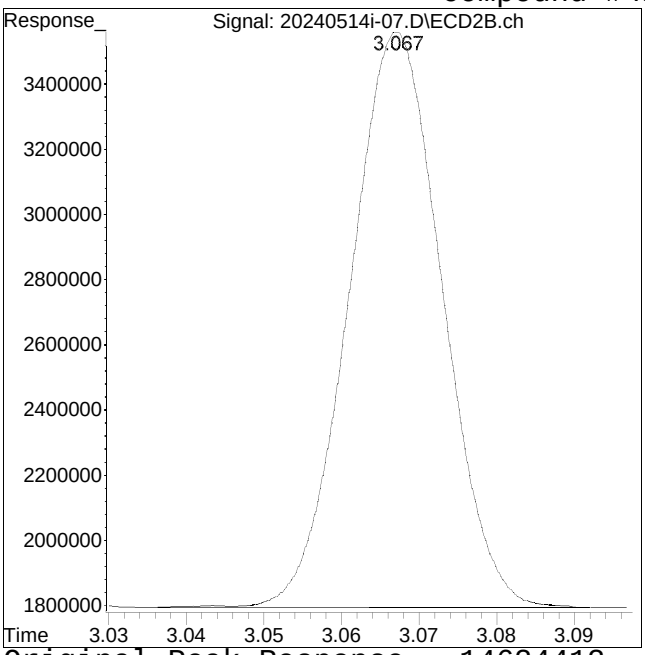
Manual Peak Response = 11243444 M4

M4 = Poor automated baseline construction.

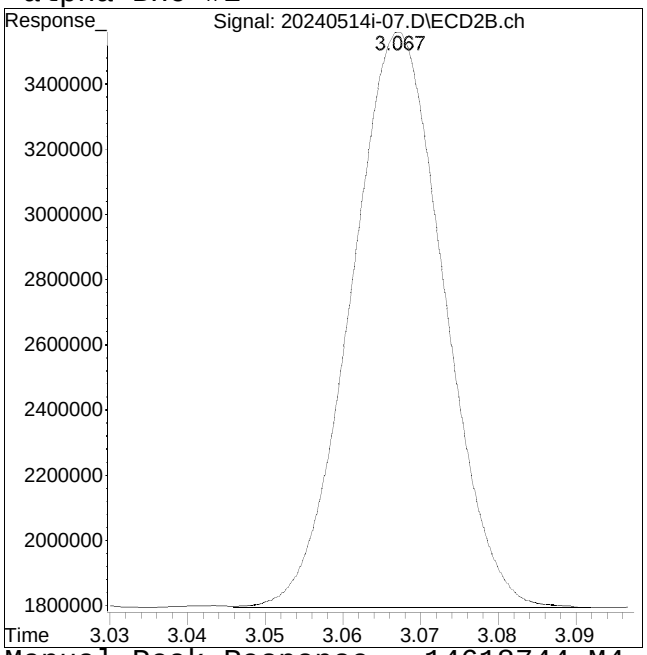
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #42: alpha-BHC #2



Original Peak Response = 14624412



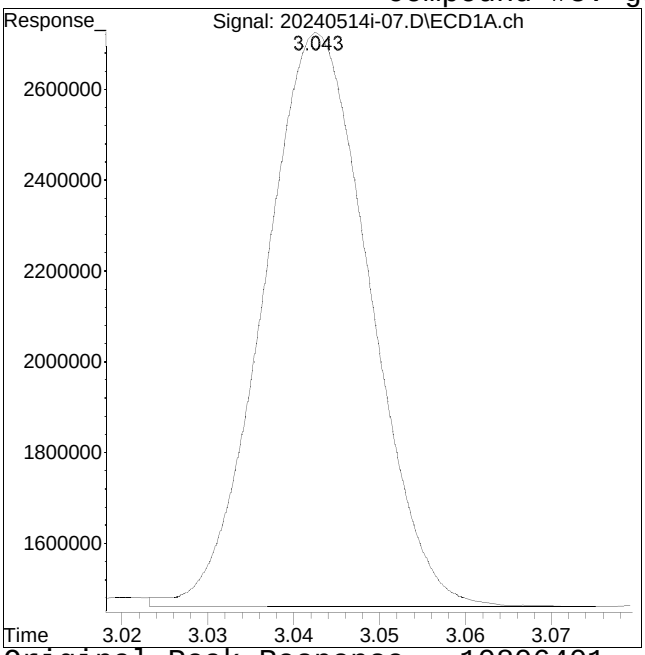
Manual Peak Response = 14618744 M4

M4 = Poor automated baseline construction.

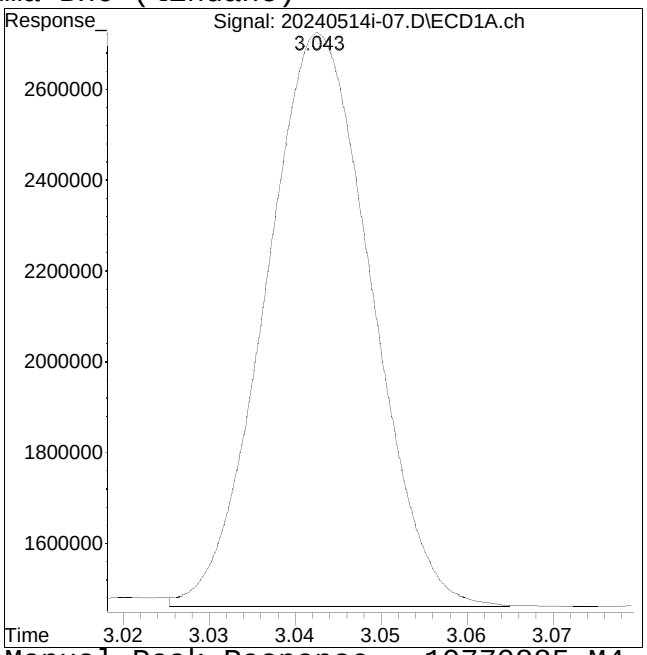
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 10806401



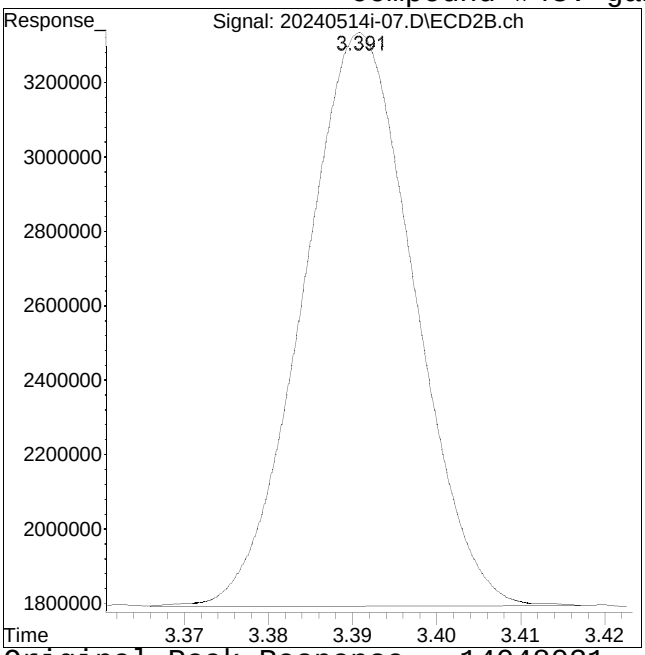
Manual Peak Response = 10770885 M4

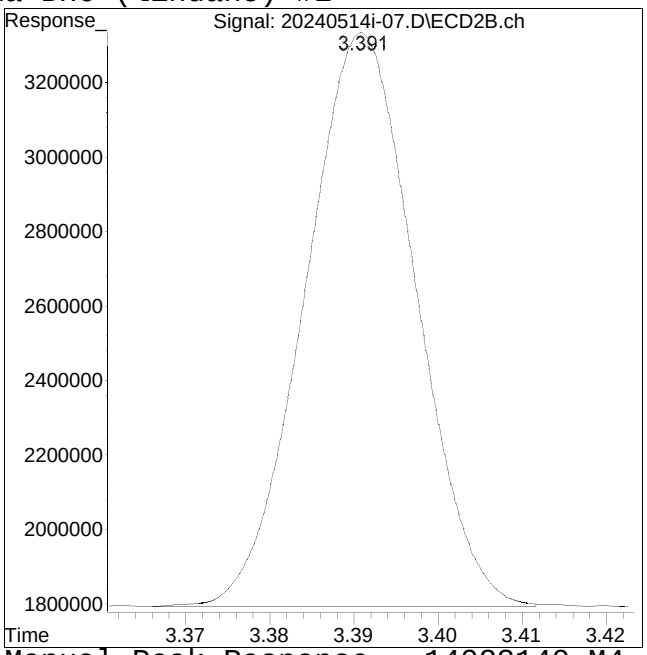
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #43: gamma-BHC (lindane) #2



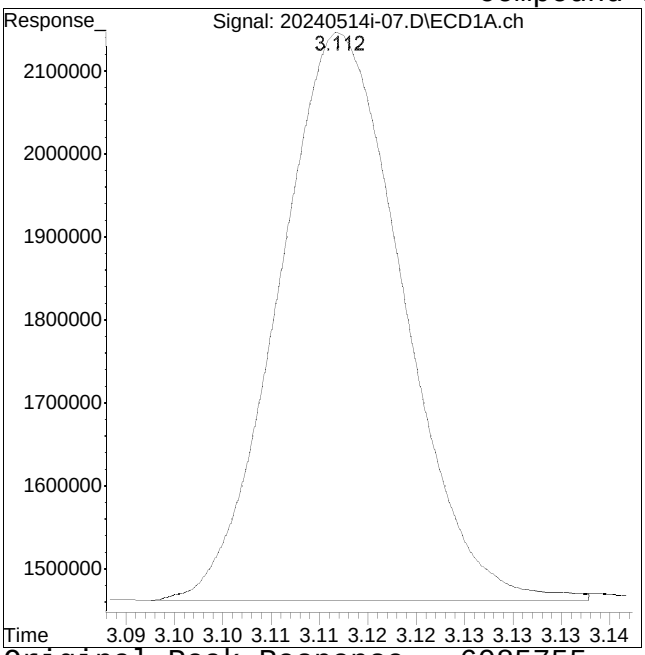


Original Peak Response = 14048031 Manual Peak Response = 14023140 M4
M4 = Poor automated baseline construction.

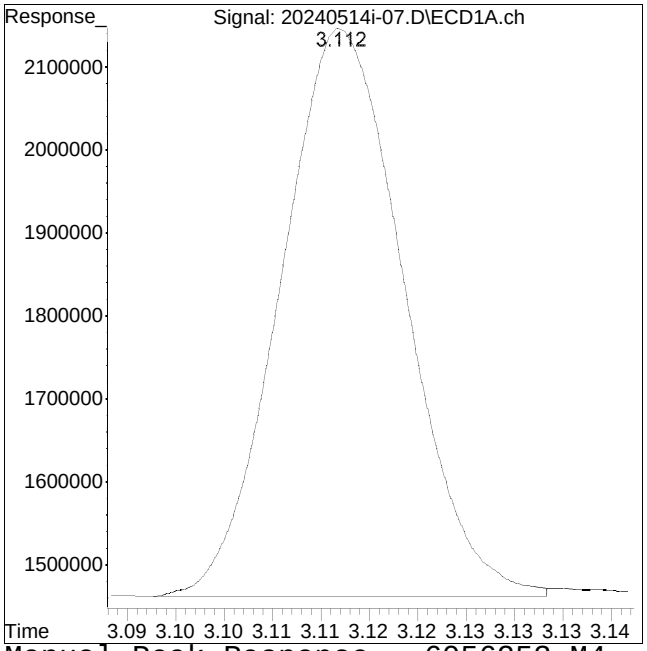
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #6: beta-BHC



Original Peak Response = 6085755



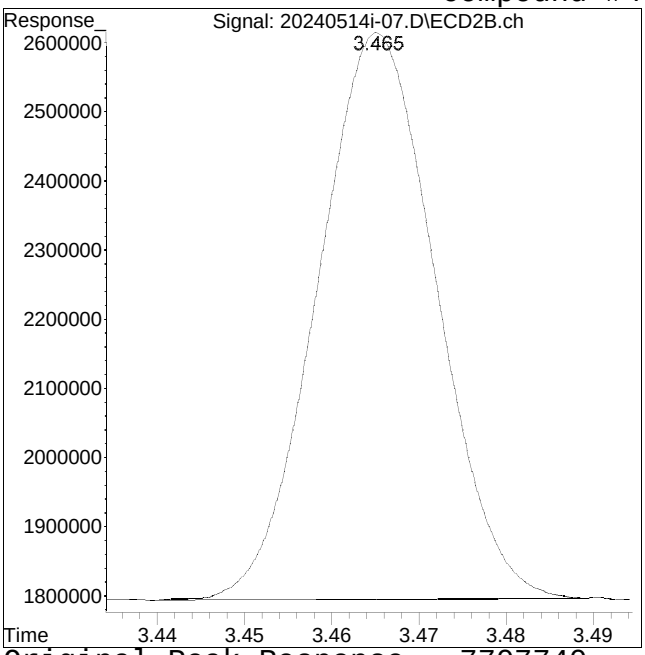
Manual Peak Response = 6056253 M4

M4 = Poor automated baseline construction.

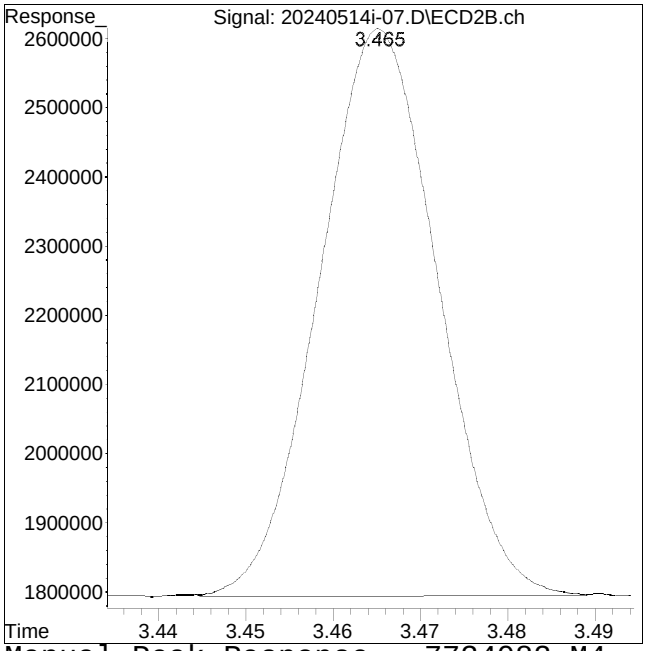
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #44: beta-BHC #2



Original Peak Response = 7707740



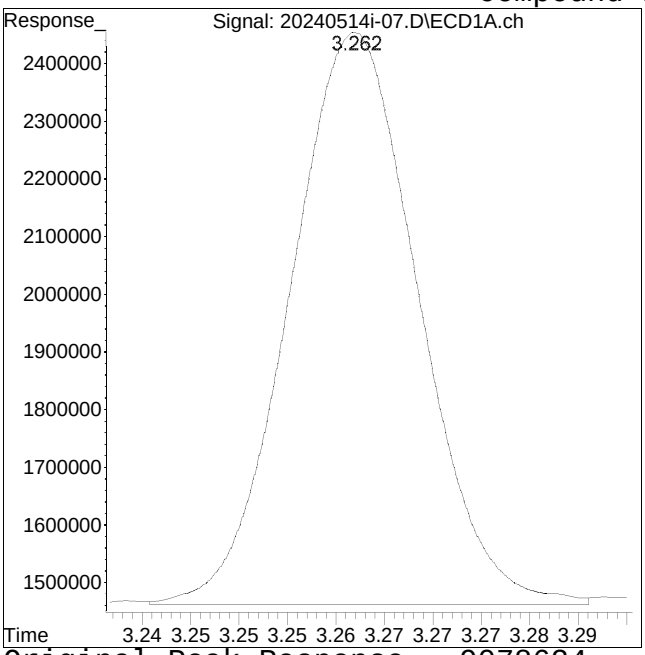
Manual Peak Response = 7734082 M4

M4 = Poor automated baseline construction.

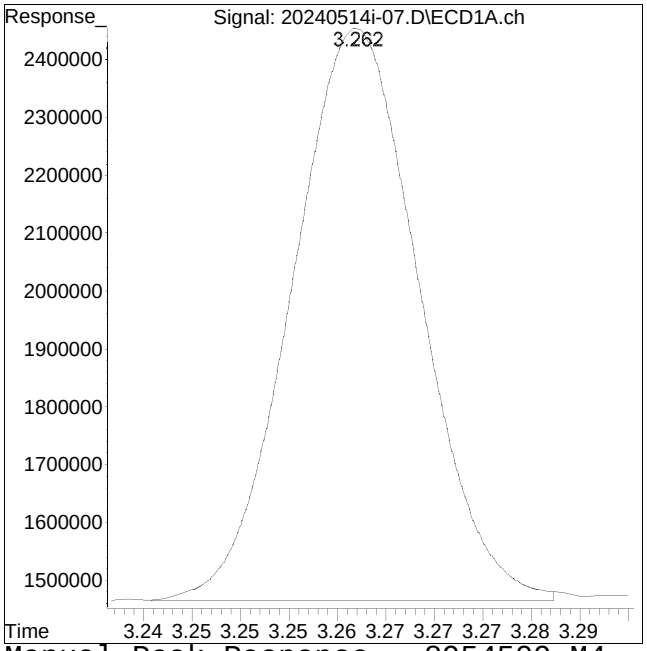
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #7: delta-BHC



Original Peak Response = 9078624



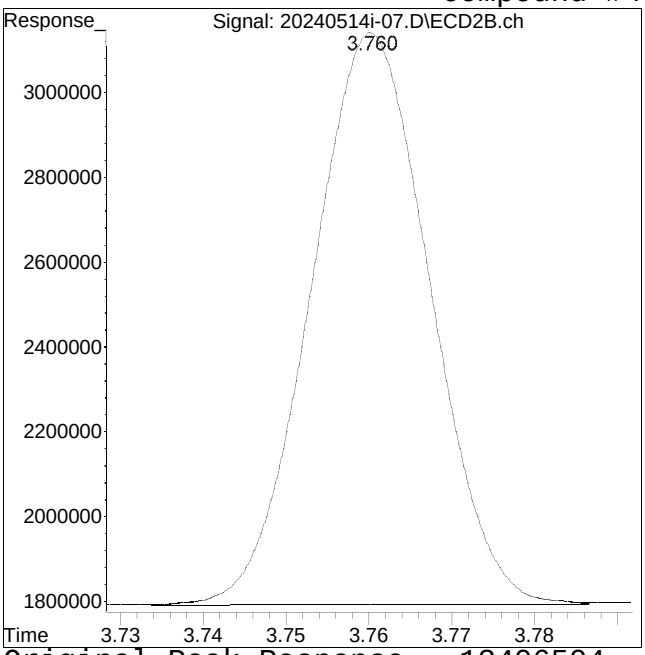
Manual Peak Response = 8954509 M4

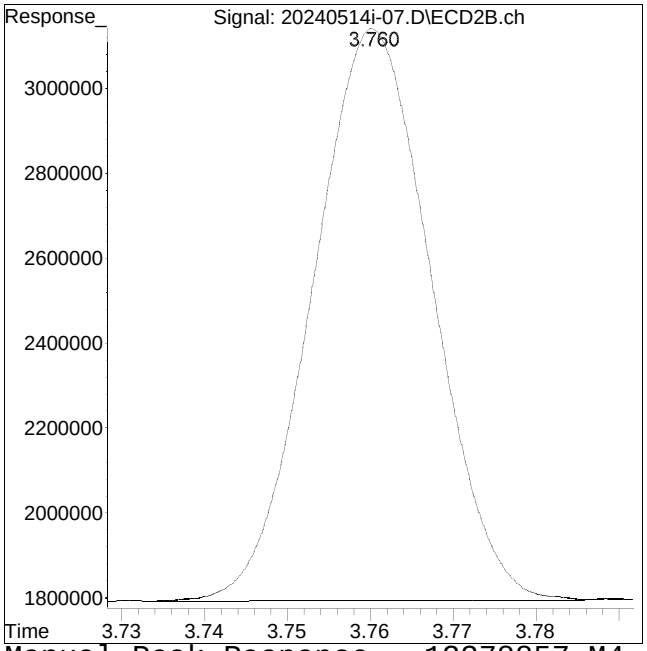
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #45: delta-BHC #2



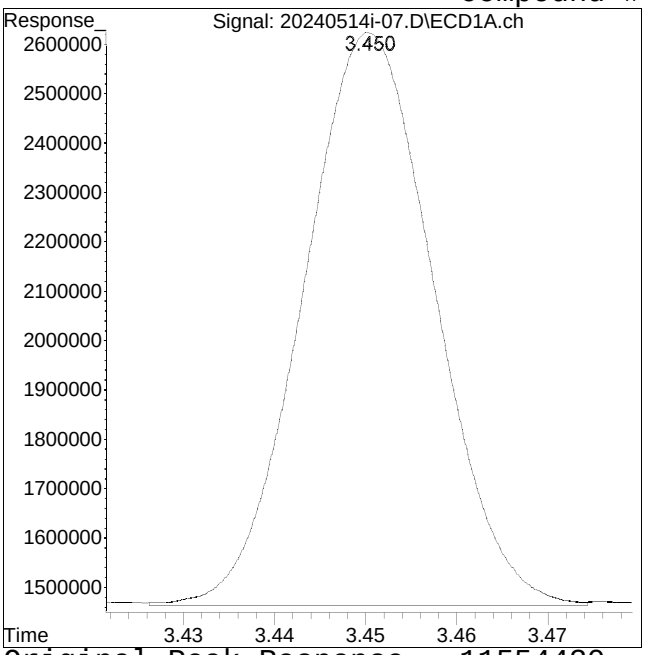


Original Peak Response = 13406504 Manual Peak Response = 13378857 M4
M4 = Poor automated baseline construction.

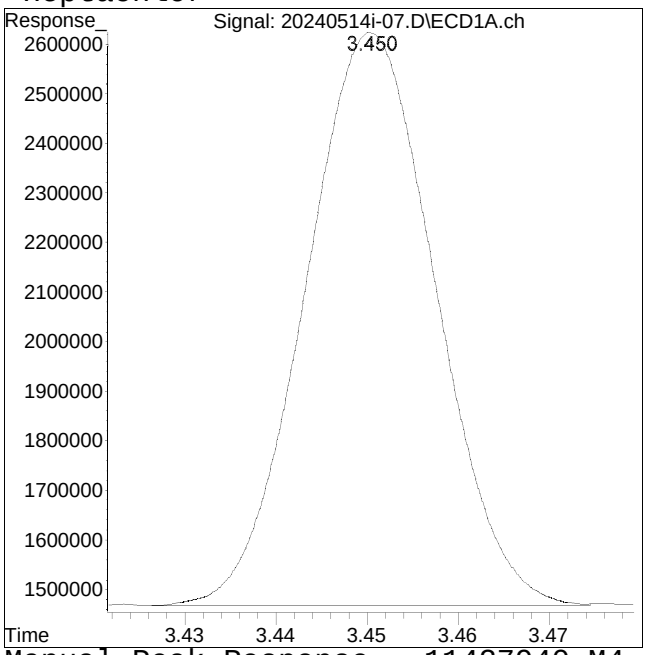
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #8: Heptachlor



Original Peak Response = 11554430



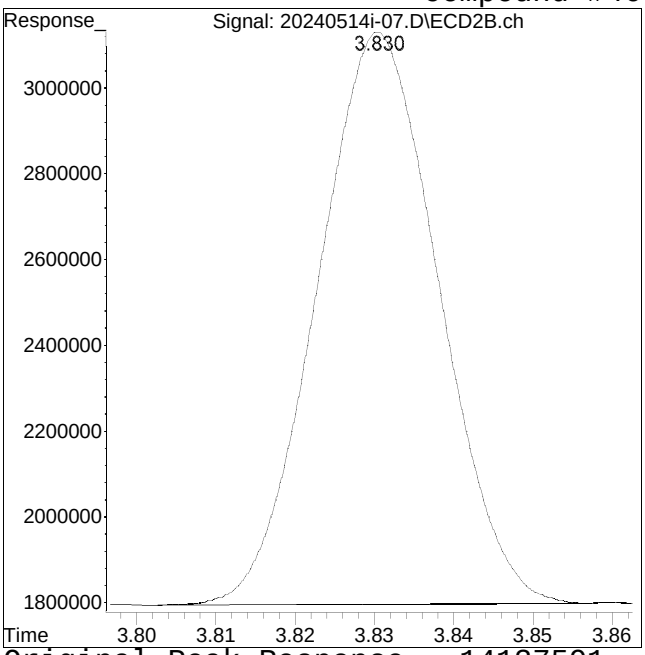
Manual Peak Response = 11427940 M4

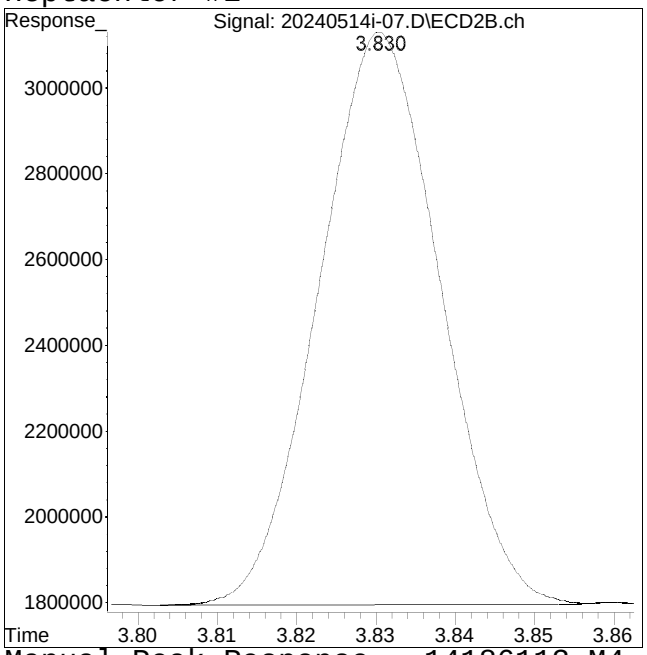
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #46: Heptachlor #2



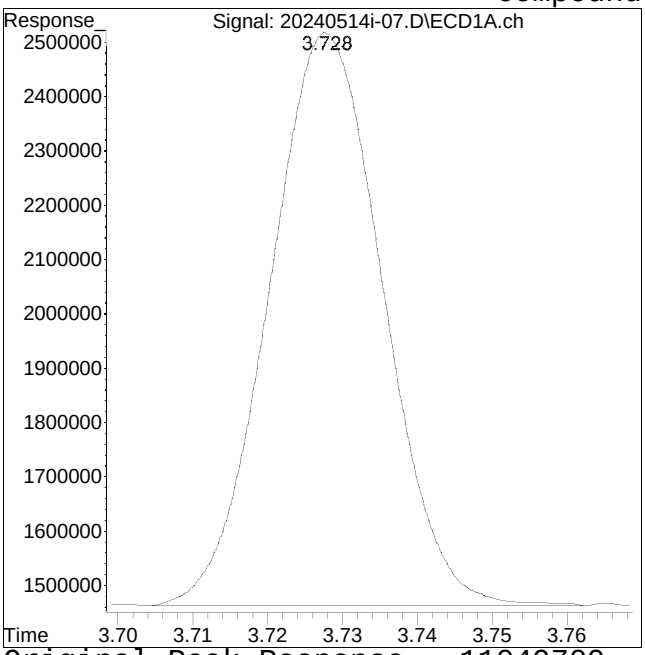


Original Peak Response = 14137591 Manual Peak Response = 14186113 M4
M4 = Poor automated baseline construction.

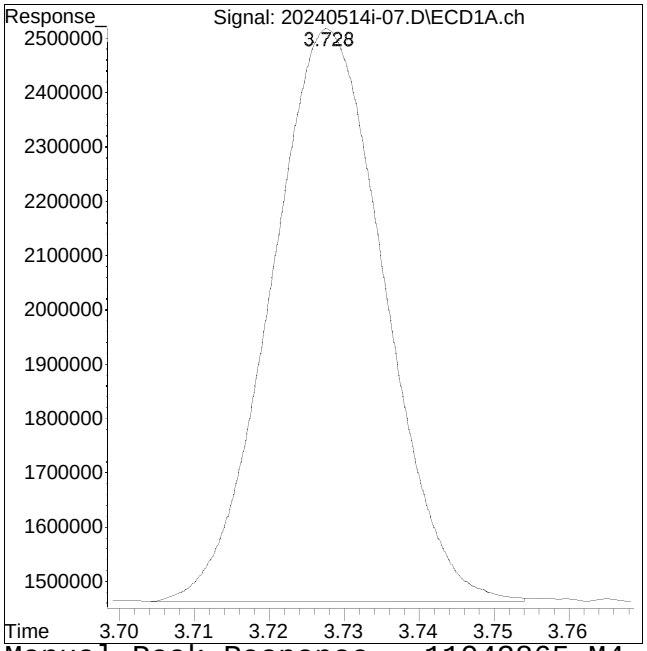
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #9: Aldrin



Original Peak Response = 11049709

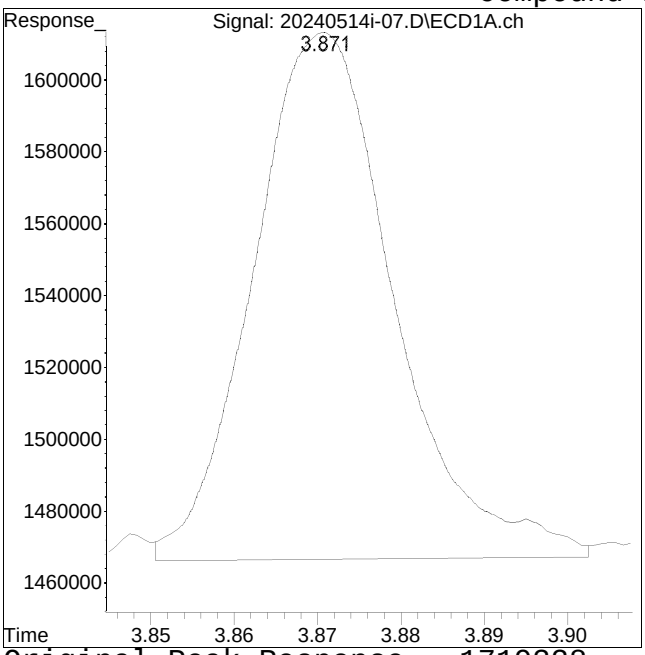


Manual Peak Response = 11043865 M4
M4 = Poor automated baseline construction.

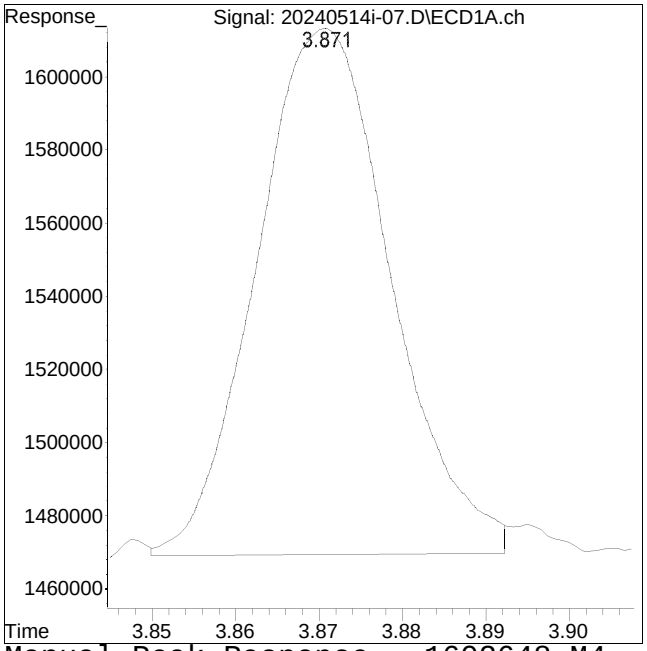
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #10: Alachlor



Original Peak Response = 1719328



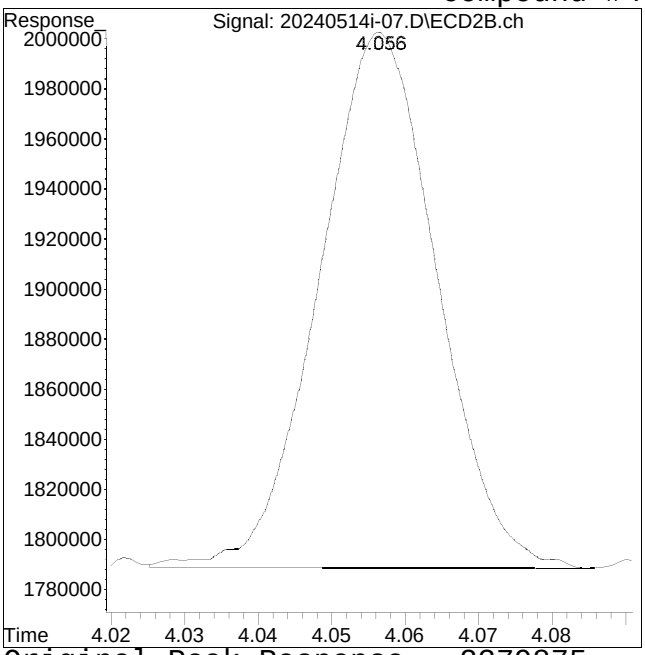
Manual Peak Response = 1602648 M4

M4 = Poor automated baseline construction.

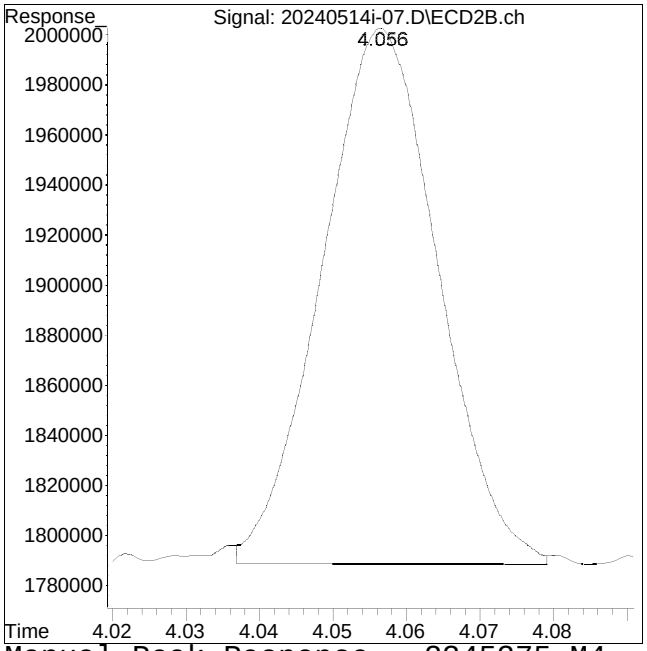
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #48: Alachlor #2



Original Peak Response = 2379875



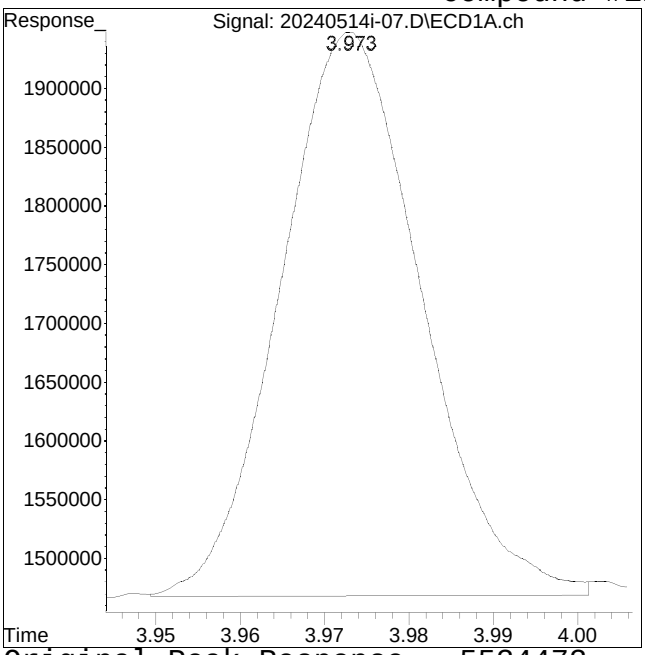
Manual Peak Response = 2345375 M4

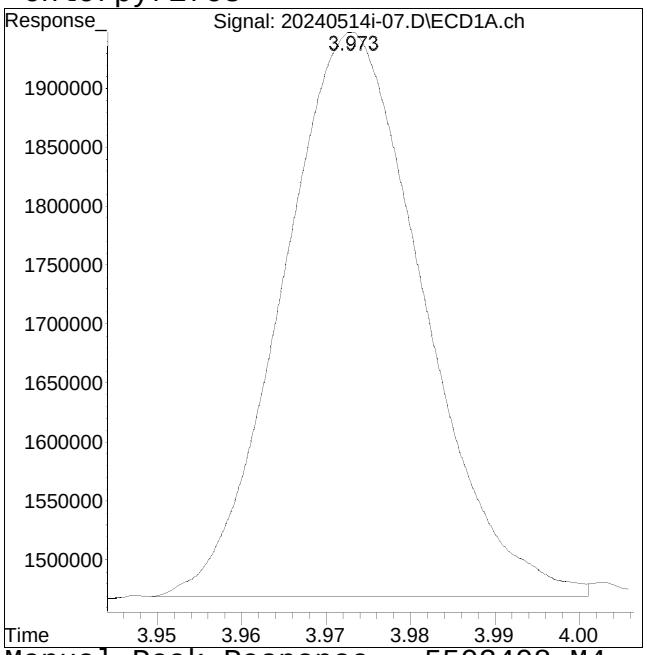
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #11: Chlorpyrifos





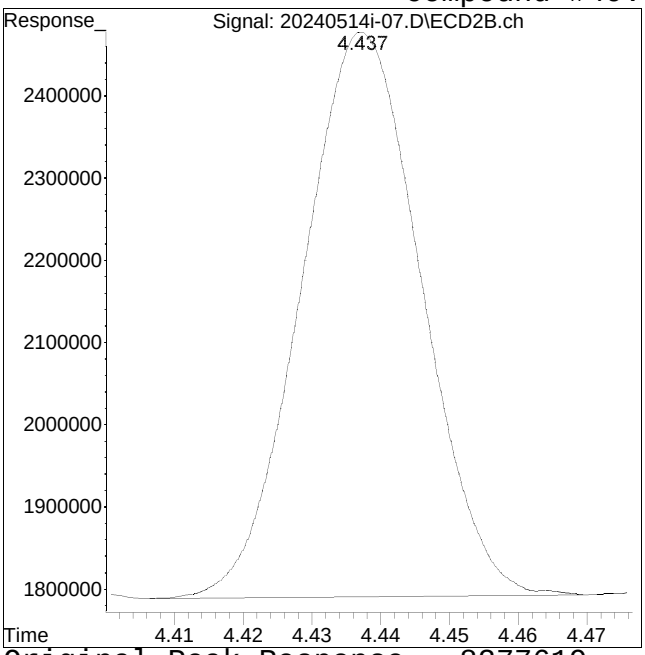
Original Peak Response = 5534473 Manual Peak Response = 5503408 M4
M4 = Poor automated baseline construction.

Manual Integration Report

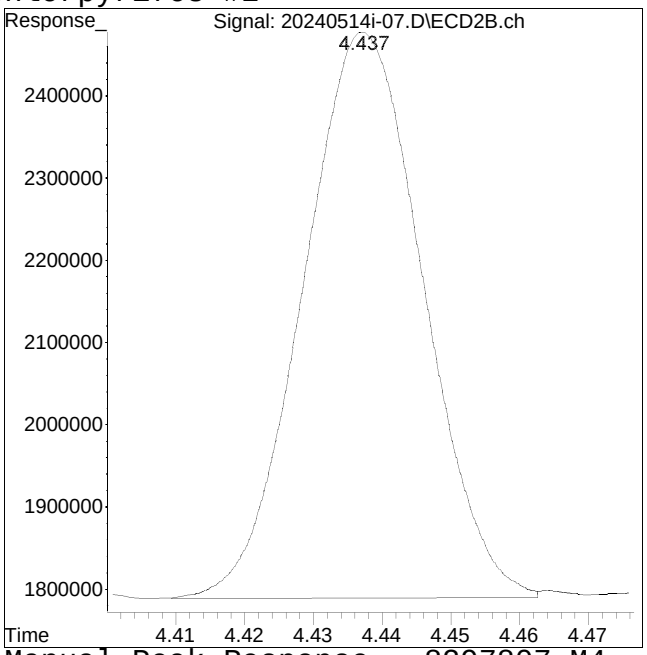
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-07.D
Date Inj'd : 5/14/2024 5:47 pm
Sample : il5pest,42e,,pp 11581 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:46 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 8277619



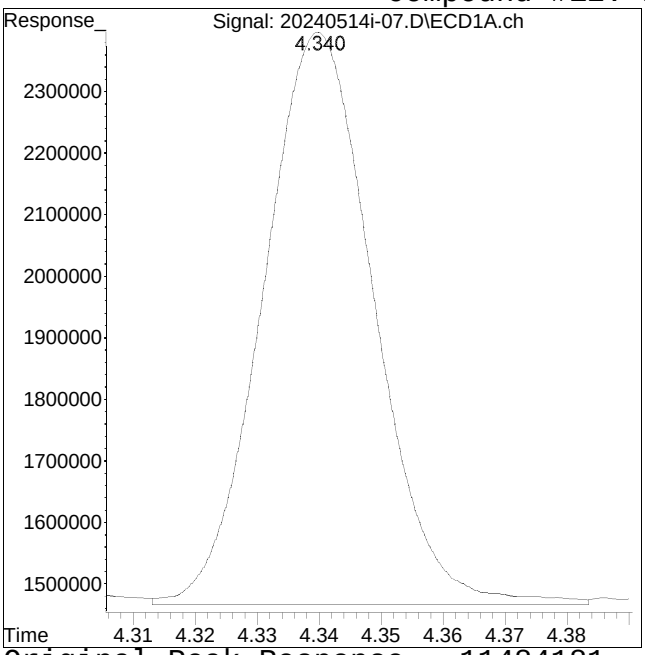
Manual Peak Response = 8297807 M4

M4 = Poor automated baseline construction.

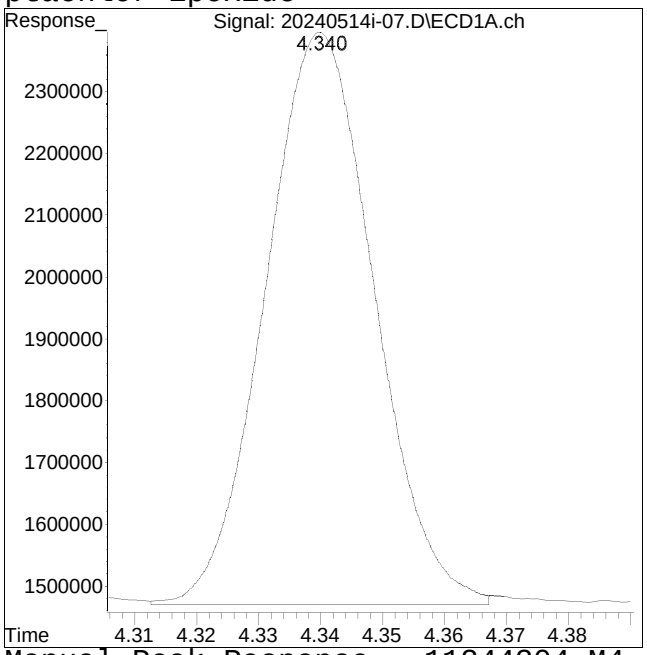
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #12: Heptachlor Epoxide



Original Peak Response = 11484181



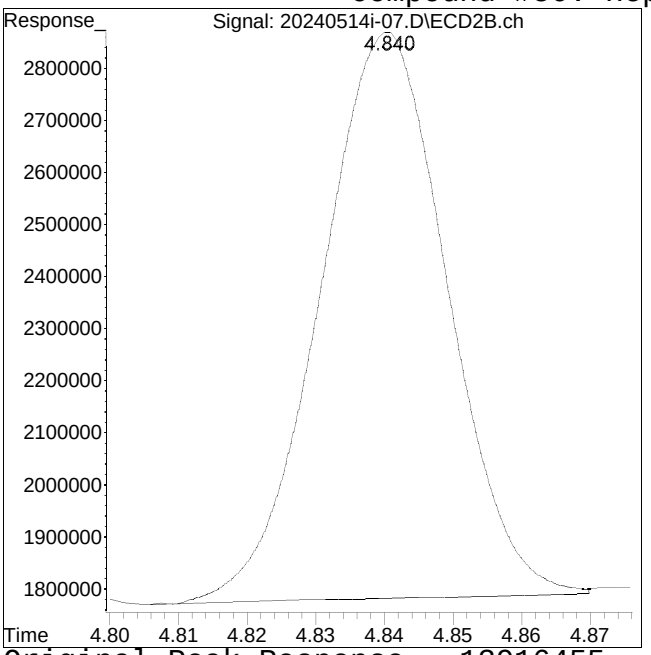
Manual Peak Response = 11244304 M4

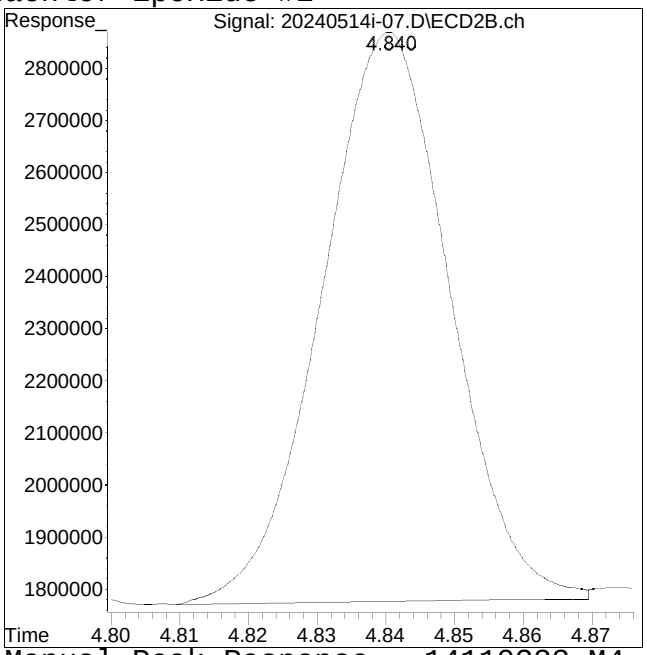
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #50: Heptachlor Epoxide #2



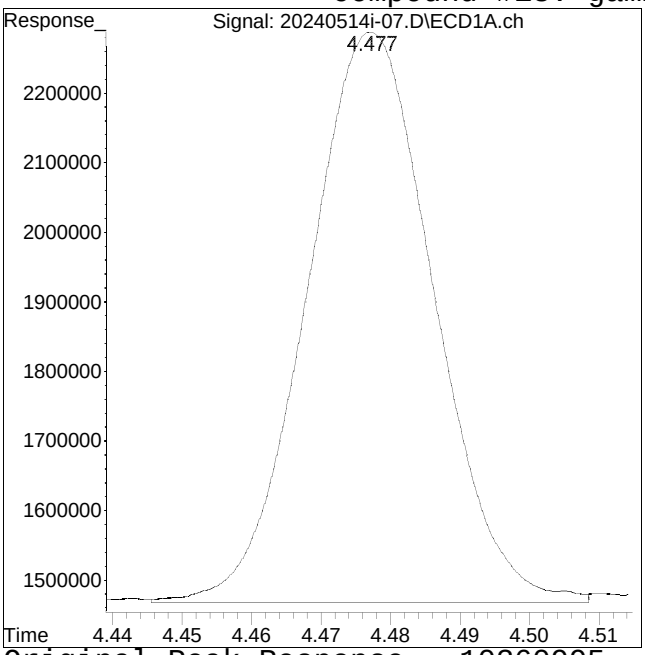


Original Peak Response = 13916455 Manual Peak Response = 14110333 M4
M4 = Poor automated baseline construction.

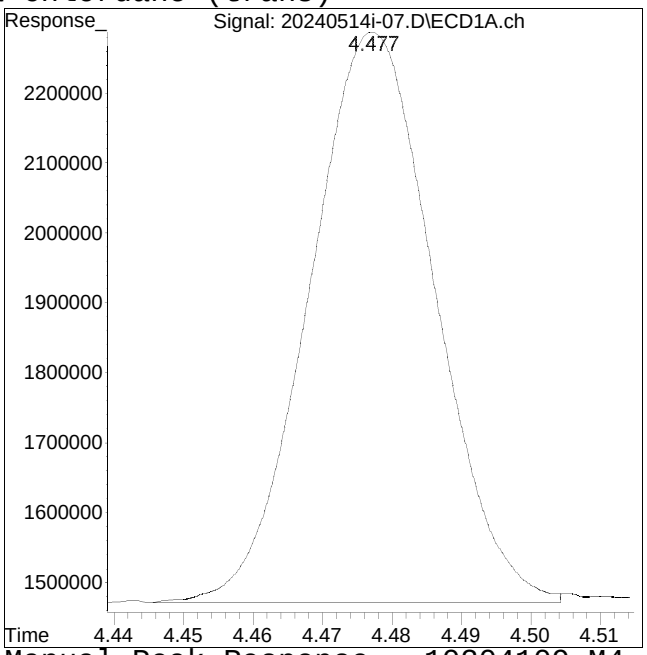
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 10360995



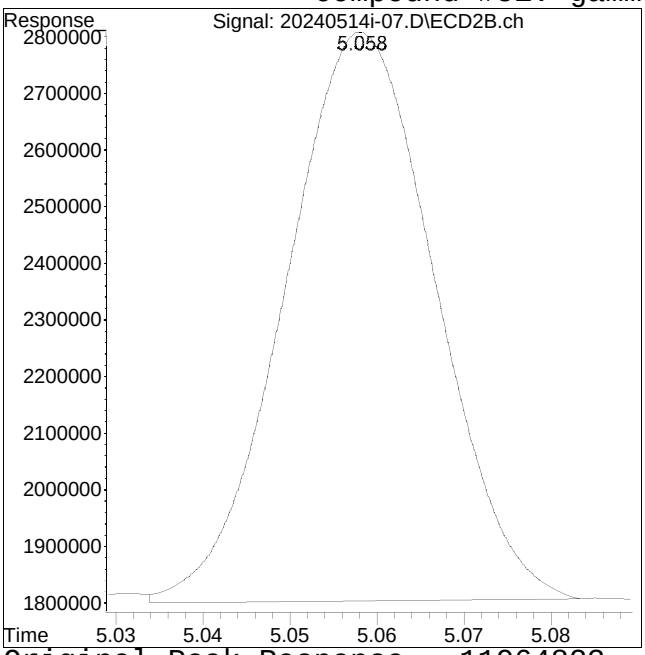
Manual Peak Response = 10204109 M4

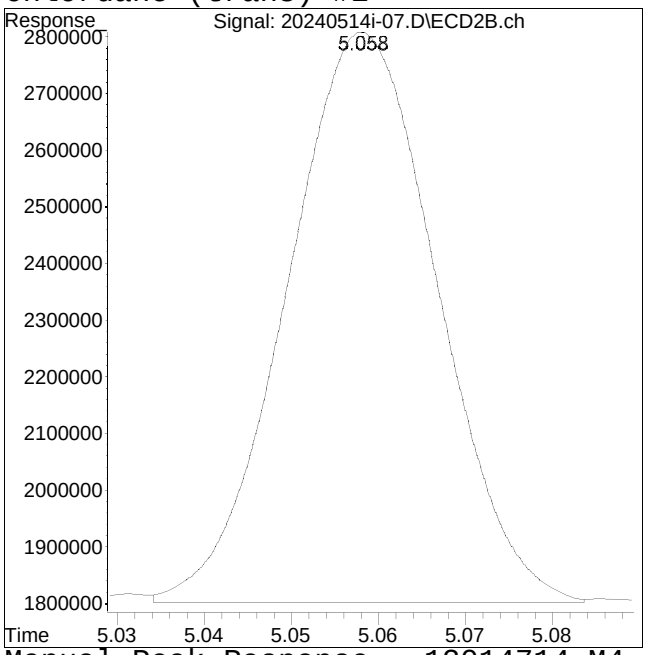
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #51: gamma-Chlordane (trans) #2



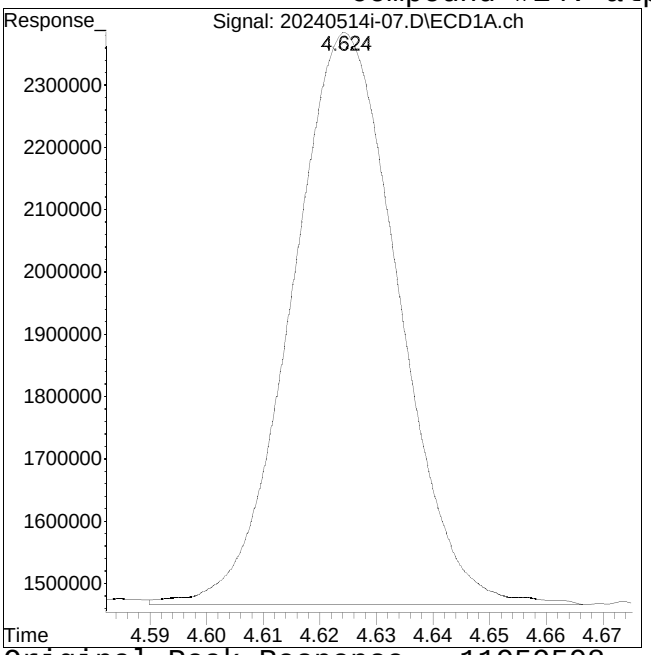


Original Peak Response = 11964823 Manual Peak Response = 12014714 M4
M4 = Poor automated baseline construction.

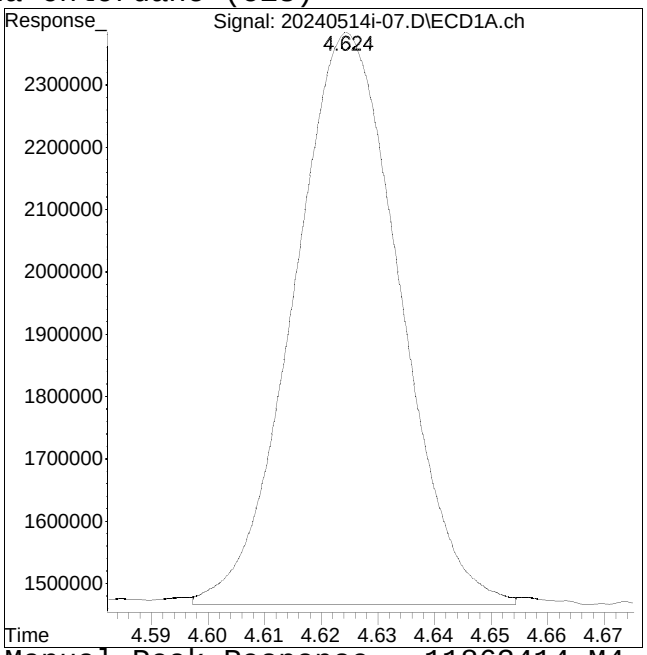
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 11959598



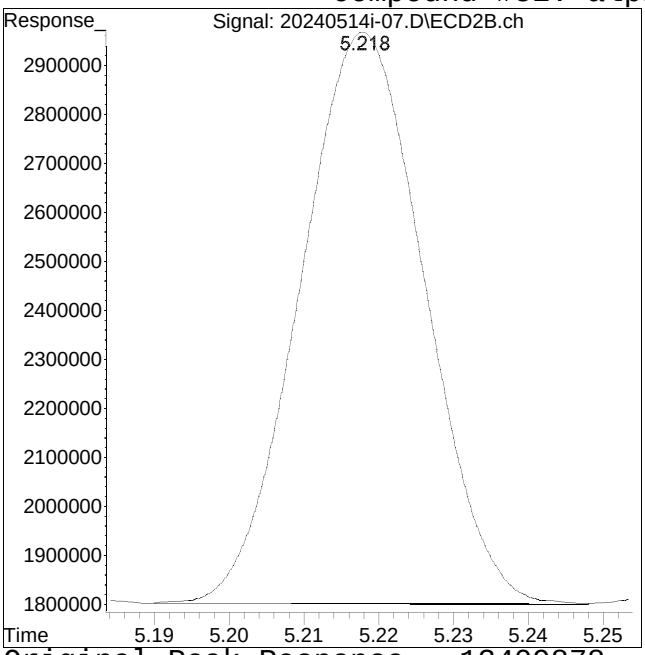
Manual Peak Response = 11863414 M4

M4 = Poor automated baseline construction.

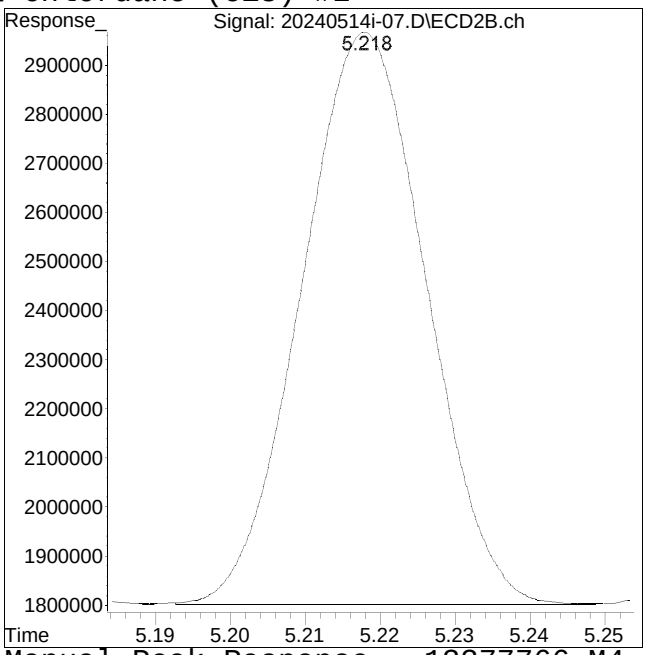
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 13409878



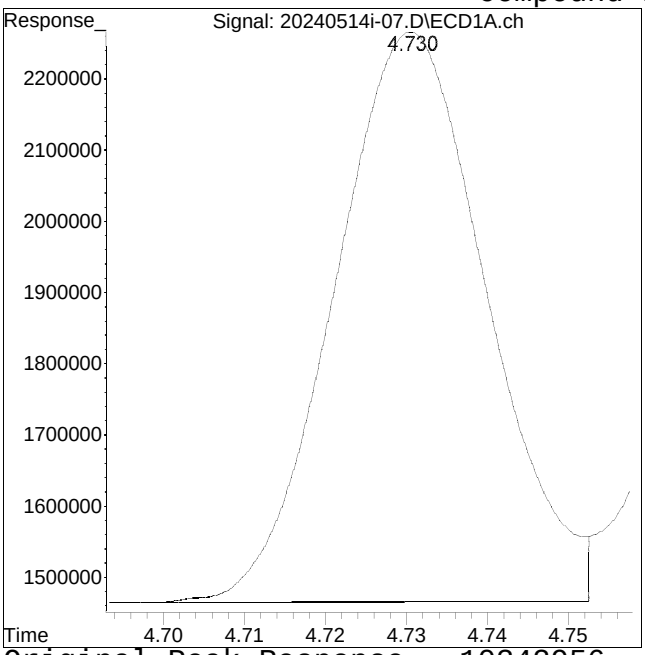
Manual Peak Response = 13377766 M4

M4 = Poor automated baseline construction.

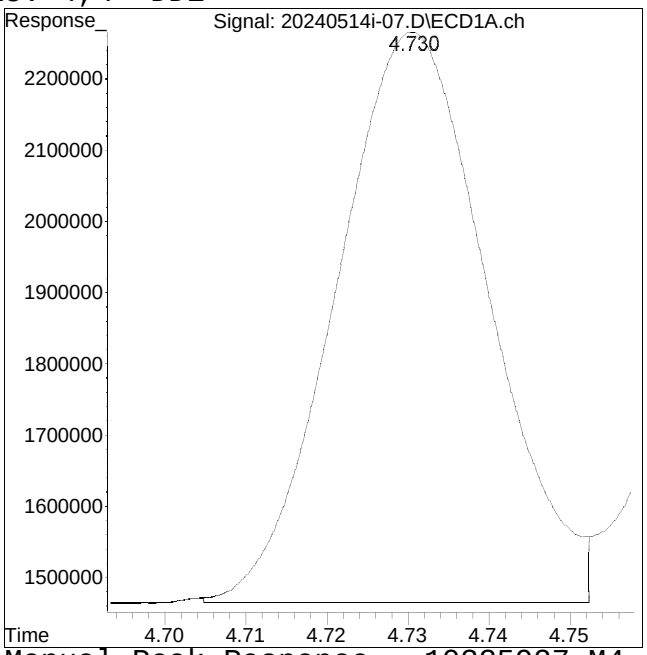
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #15: 4,4'-DDE



Original Peak Response = 10342956



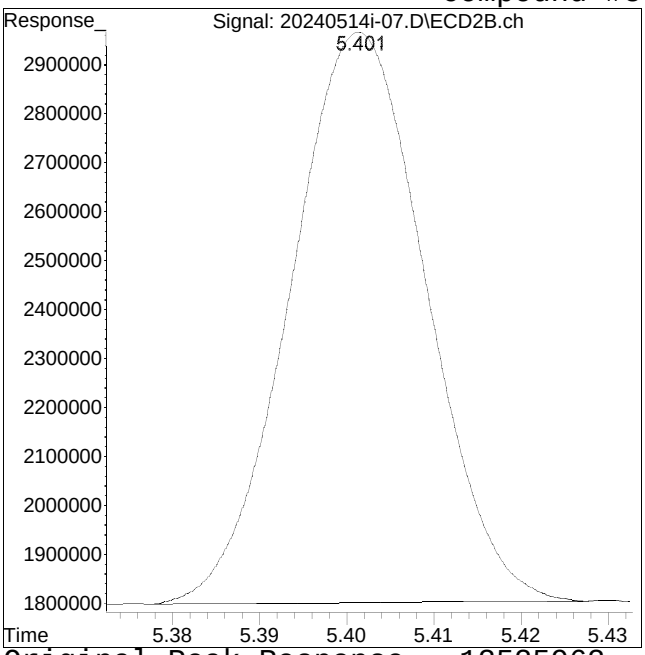
Manual Peak Response = 10335927 M4

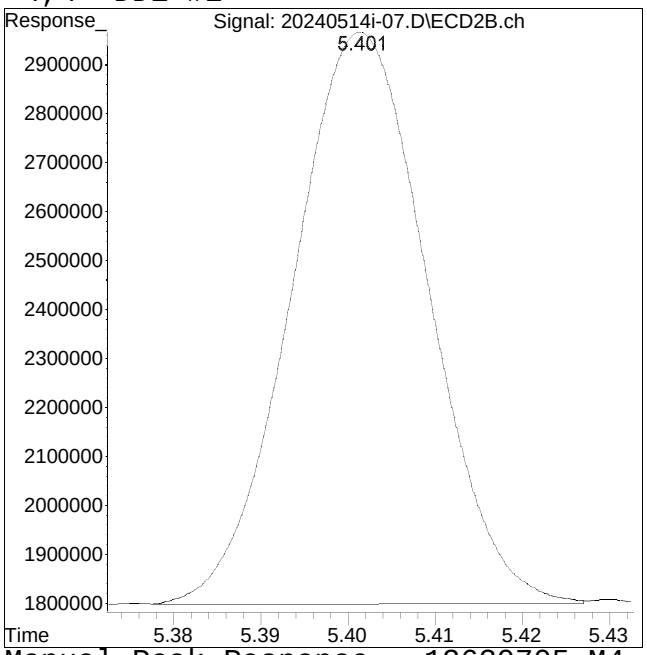
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #53: 4,4'-DDE #2





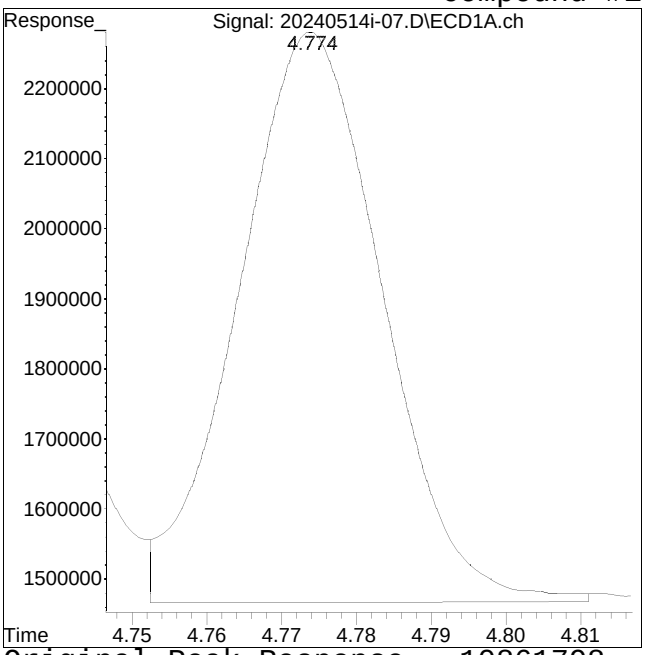
Original Peak Response = 12525962 Manual Peak Response = 12630705 M4
M4 = Poor automated baseline construction.

Manual Integration Report

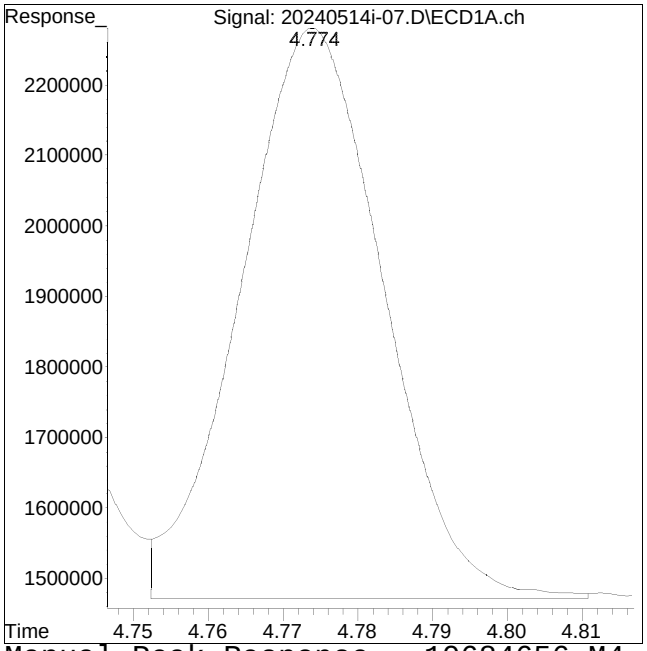
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-07.D
Date Inj'd : 5/14/2024 5:47 pm
Sample : il5pest,42e,,pp 11581 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:46 am

Compound #16: Endosulfan I



Original Peak Response = 10861798



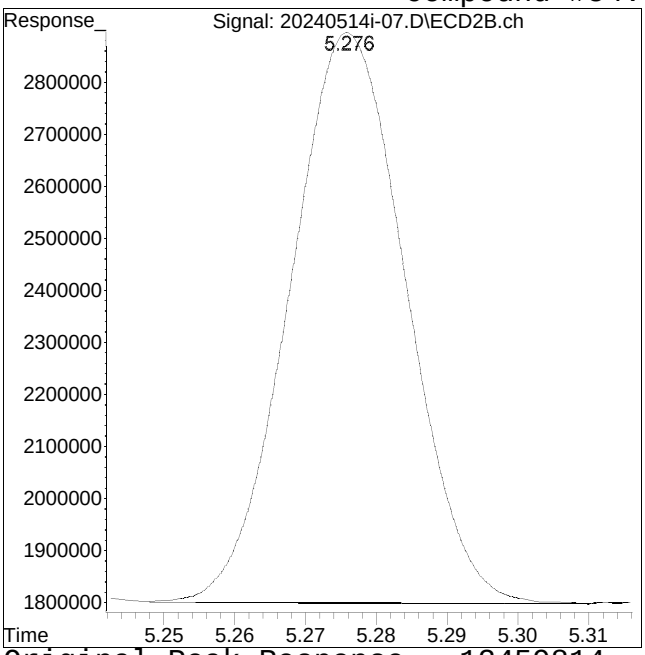
Manual Peak Response = 10684656 M4

M4 = Poor automated baseline construction.

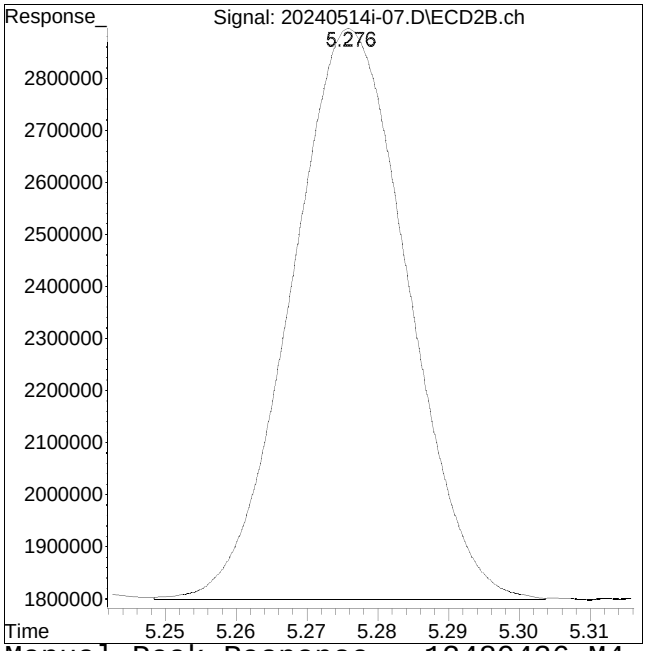
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-07.D
Date Inj'd : 5/14/2024 5:47 pm
Sample : il5pest,42e,,pp 11581 L0.0
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:46 am

Compound #54: Endosulfan I #2



Original Peak Response = 12459814



Manual Peak Response = 12480436 M4

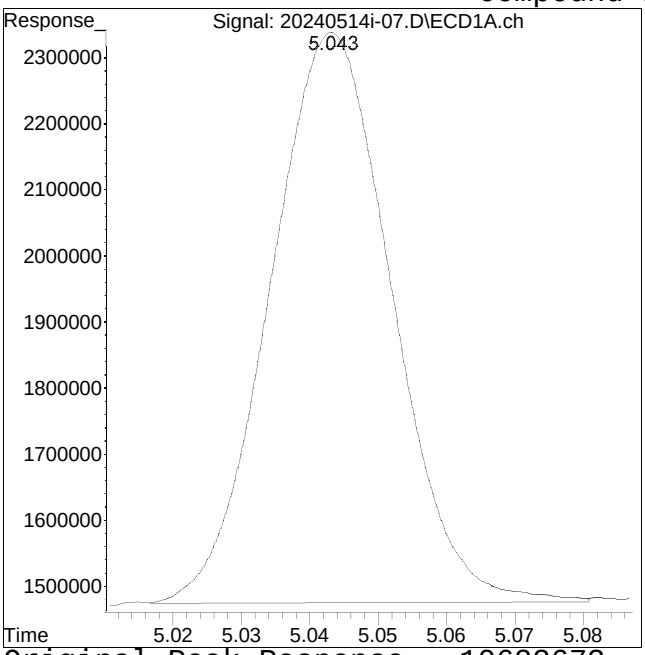
M4 = Poor automated baseline construction.

Manual Integration Report

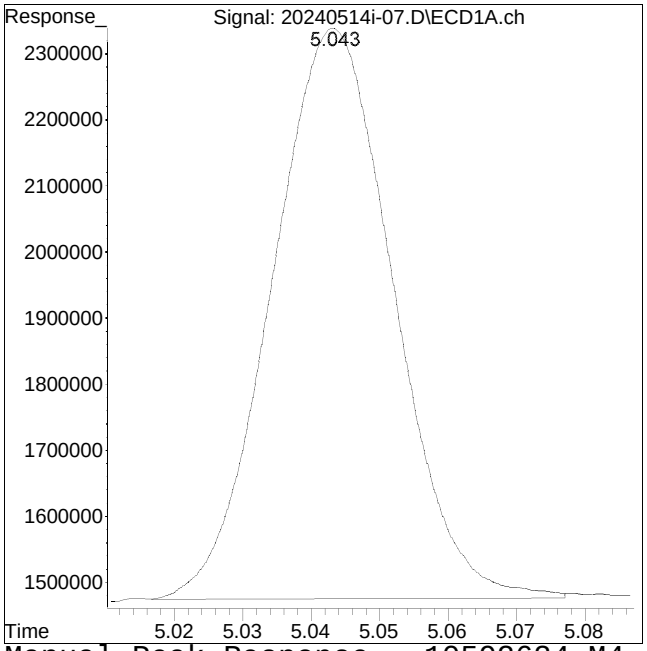
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-07.D
Date Inj'd : 5/14/2024 5:47 pm
Sample : il5pest,42e,,pp 11581 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:46 am

Compound #17: Dieldrin



Original Peak Response = 10622673



Manual Peak Response = 10592624 M4

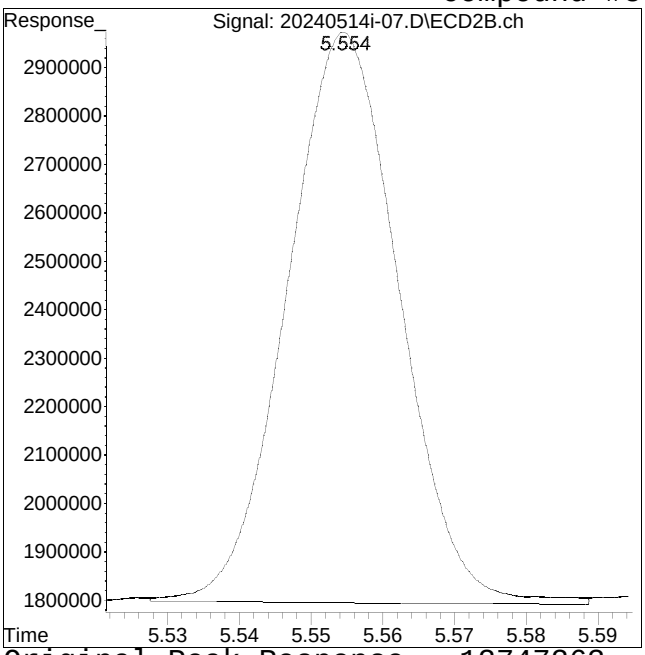
M4 = Poor automated baseline construction.

Manual Integration Report

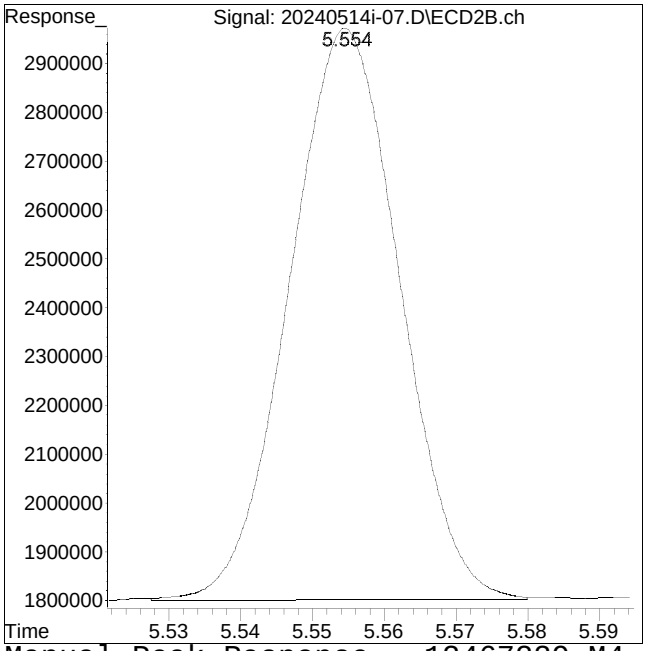
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-07.D
Date Inj'd : 5/14/2024 5:47 pm
Sample : il5pest,42e,,pp 11581 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:46 am

Compound #55: Dieldrin #2



Original Peak Response = 12747263



Manual Peak Response = 12467229 M4

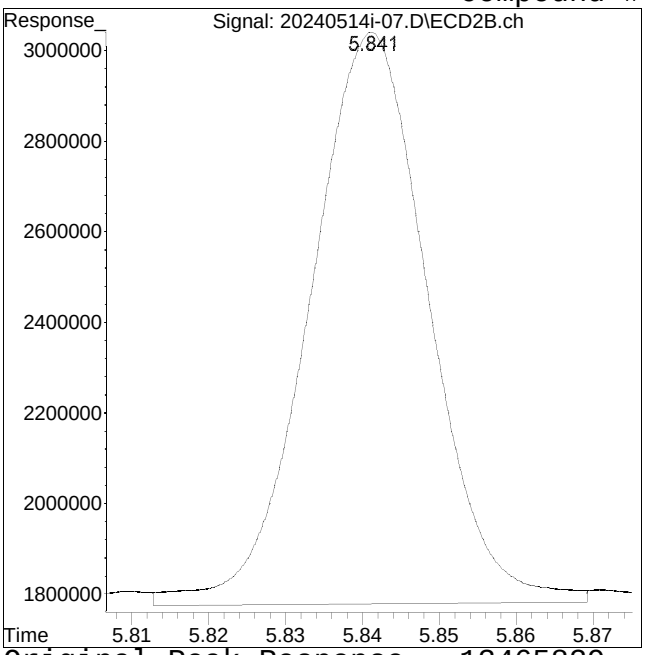
M4 = Poor automated baseline construction.

Manual Integration Report

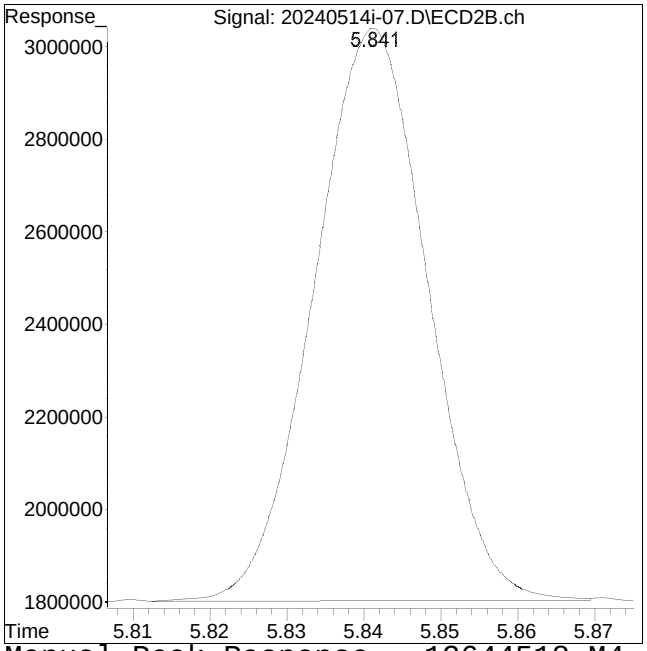
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-07.D
Date Inj'd : 5/14/2024 5:47 pm
Sample : il5pest,42e,,pp 11581 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:46 am

Compound #56: Endrin #2



Original Peak Response = 13465839



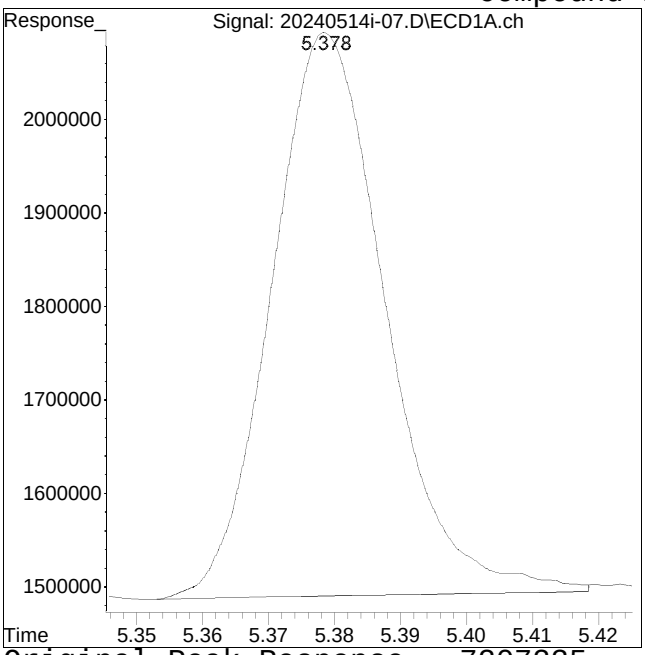
Manual Peak Response = 12644518 M4

M4 = Poor automated baseline construction.

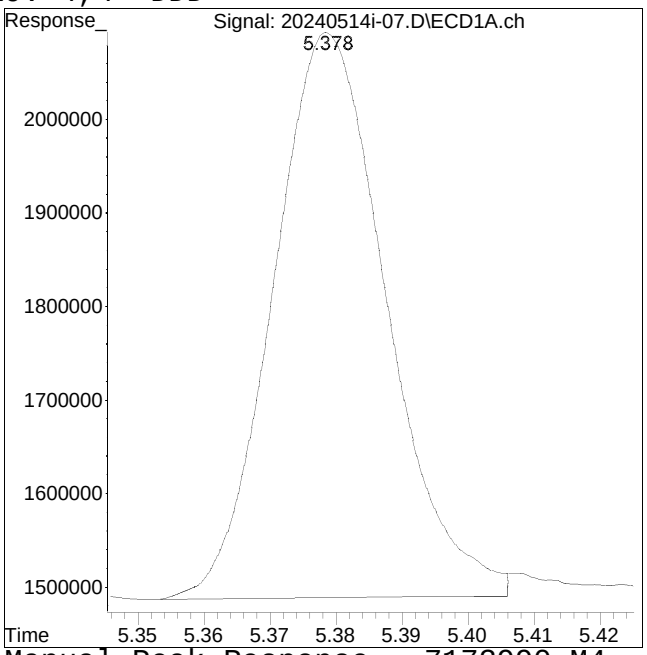
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #19: 4,4'-DDD



Original Peak Response = 7207235



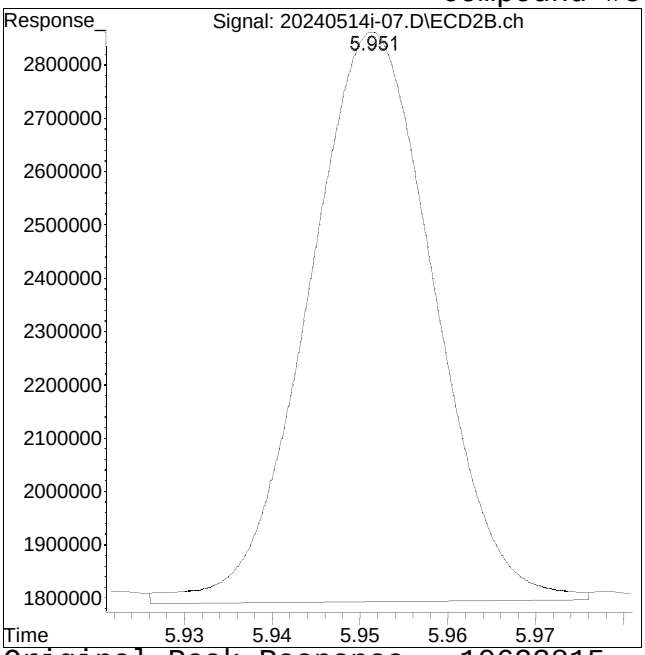
Manual Peak Response = 7173990 M4

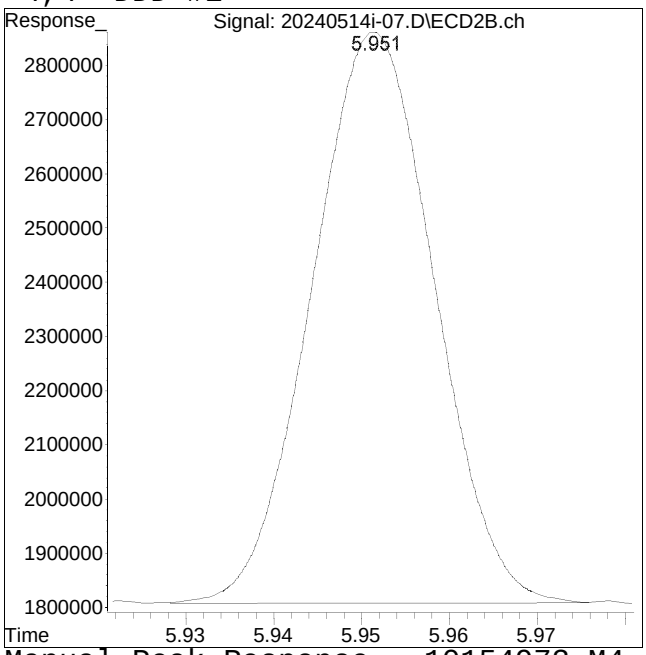
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #57: 4,4'-DDD #2



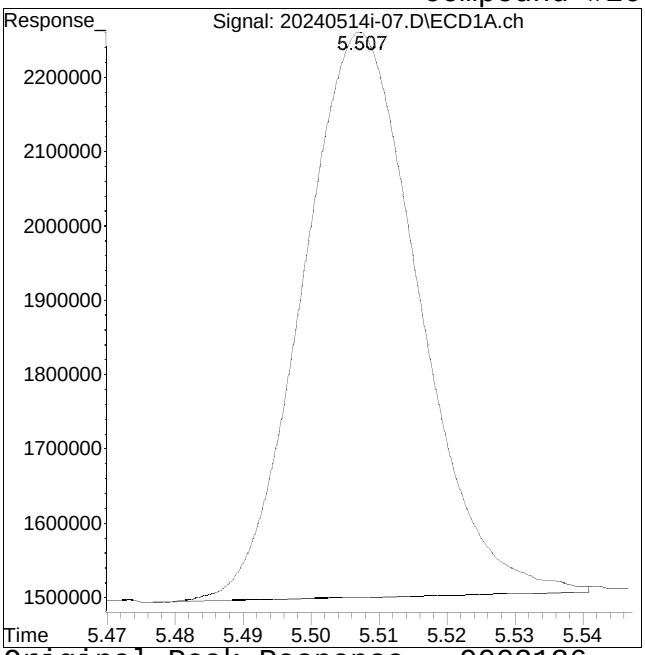


Original Peak Response = 10623815 Manual Peak Response = 10154973 M4
M4 = Poor automated baseline construction.

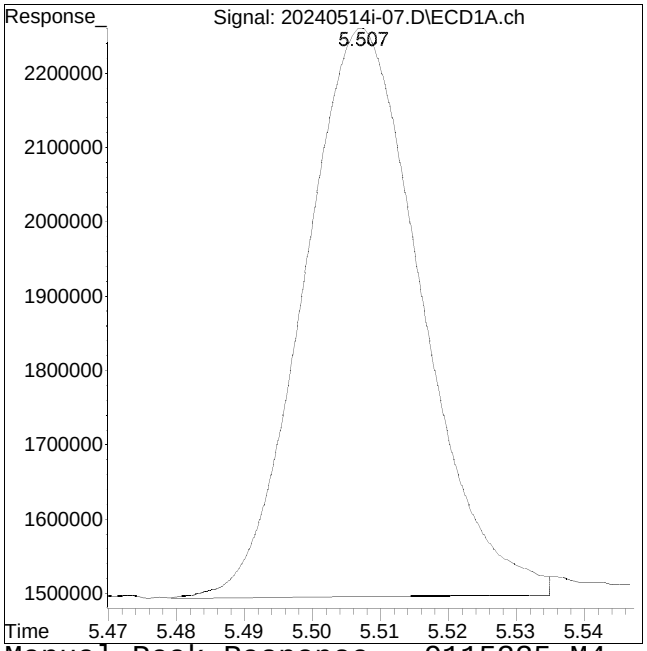
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-07.D
Date Inj'd : 5/14/2024 5:47 pm
Sample : il5pest,42e,,pp 11581 L0.0
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:46 am

Compound #20: Endosulfan II



Original Peak Response = 9002136



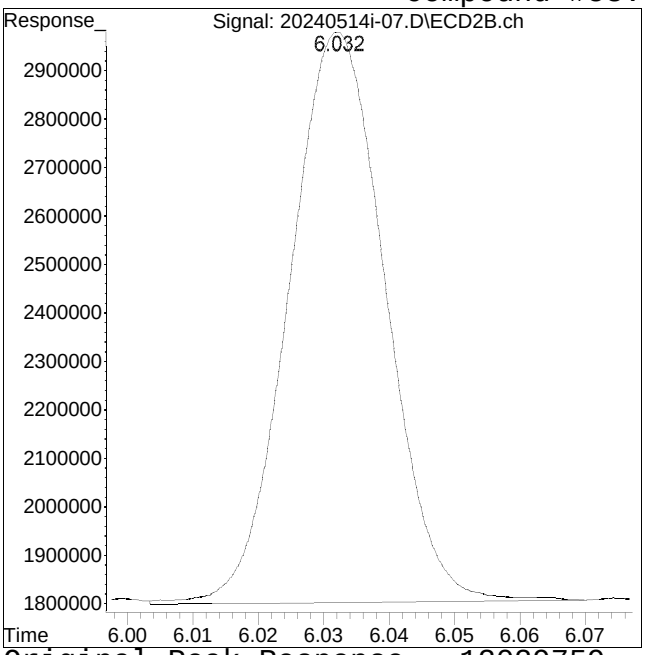
Manual Peak Response = 9115335 M4

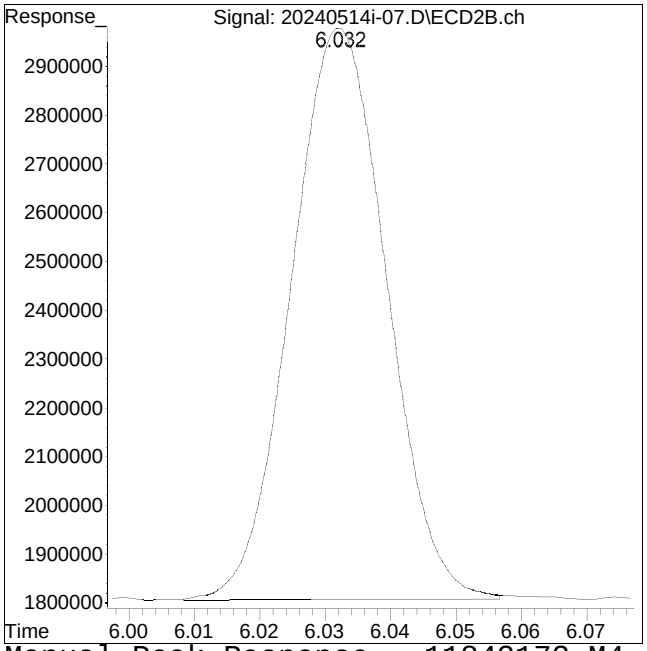
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #58: Endosulfan II #2



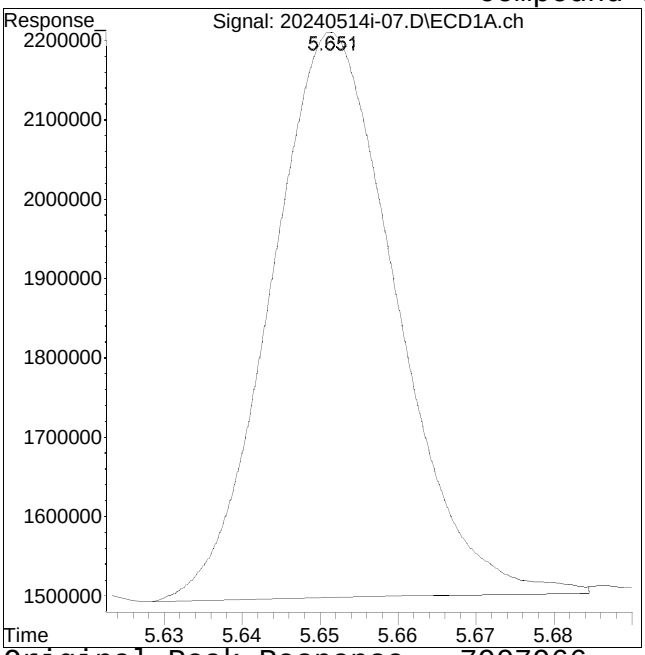


Original Peak Response = 12029759 Manual Peak Response = 11842172 M4
M4 = Poor automated baseline construction.

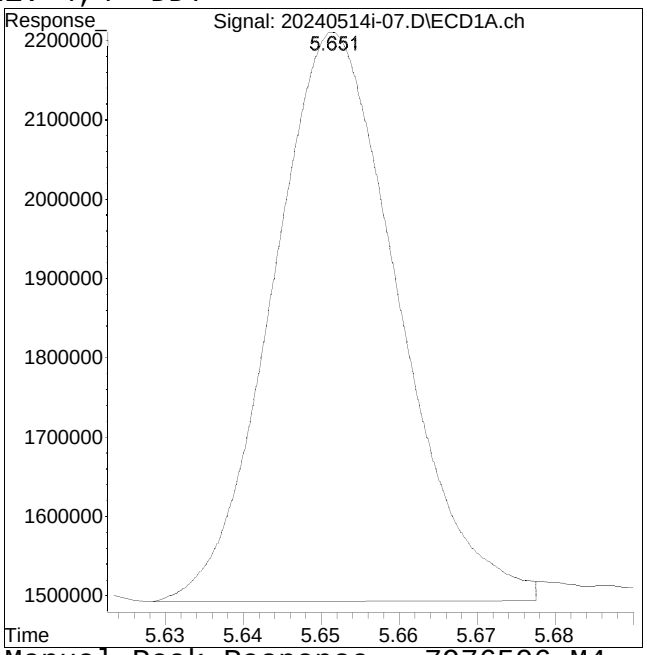
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #21: 4,4'-DDT



Original Peak Response = 7907966



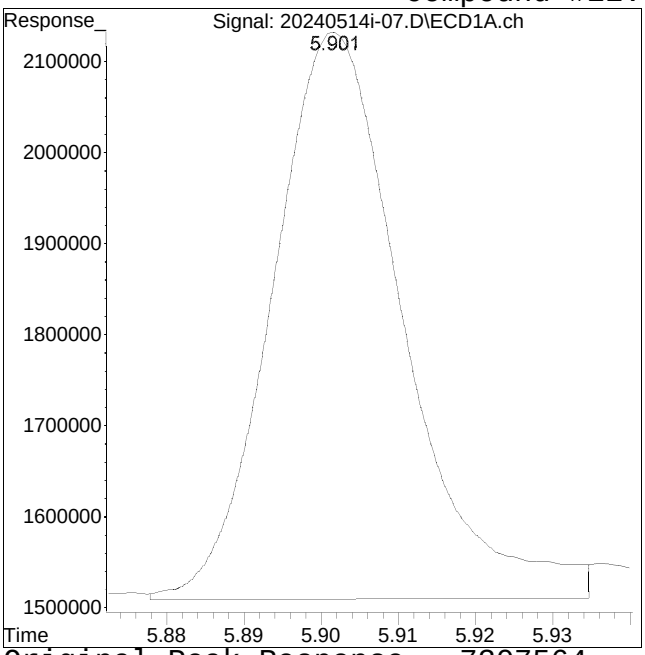
Manual Peak Response = 7976506 M4

M4 = Poor automated baseline construction.

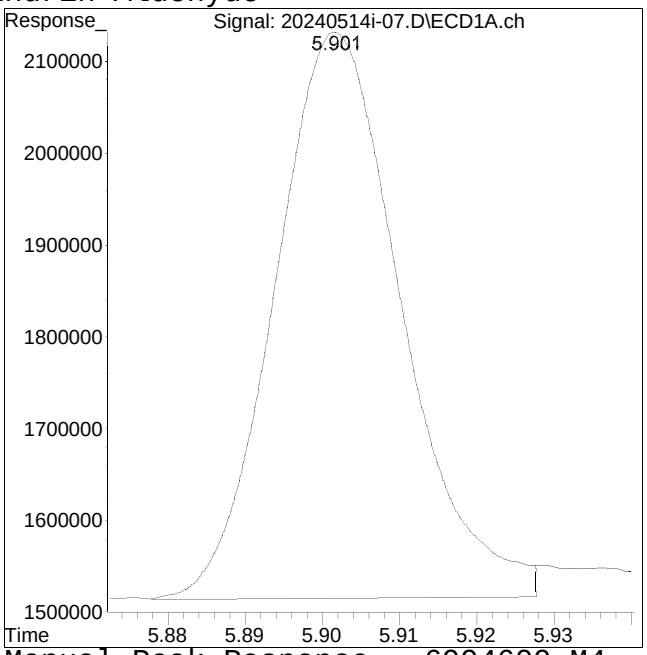
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #22: Endrin Aldehyde



Original Peak Response = 7307564



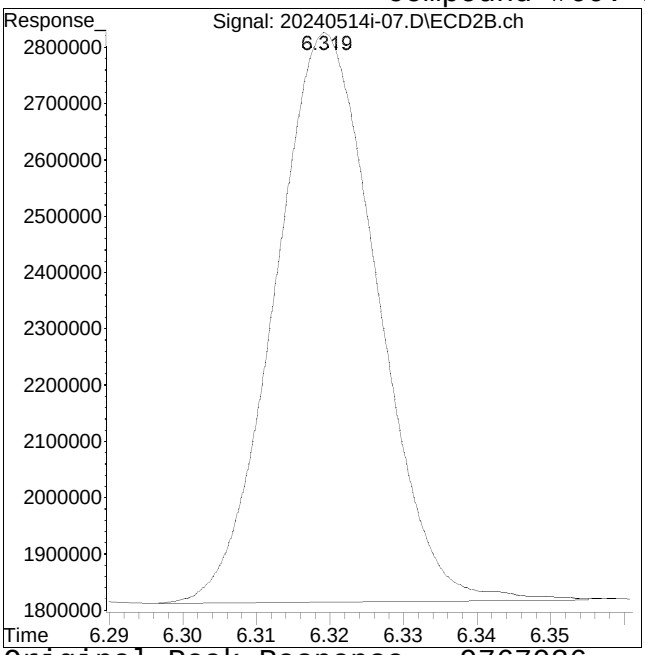
Manual Peak Response = 6994609 M4

M4 = Poor automated baseline construction.

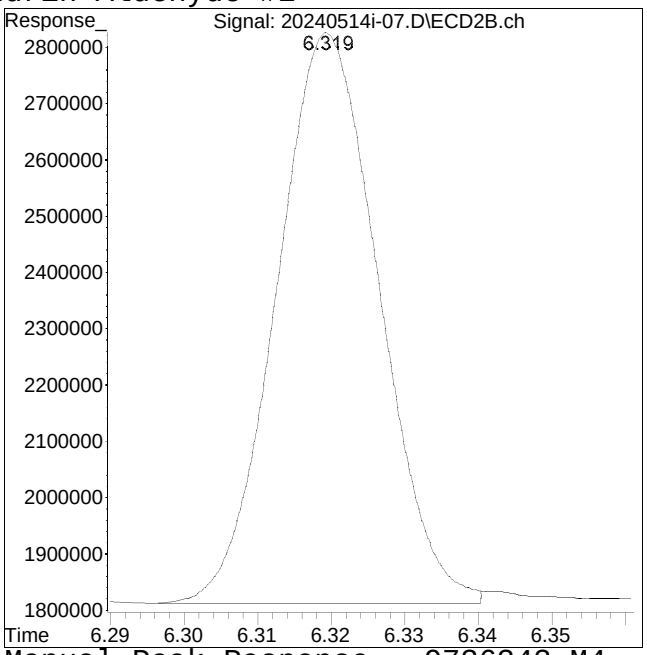
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 9767036



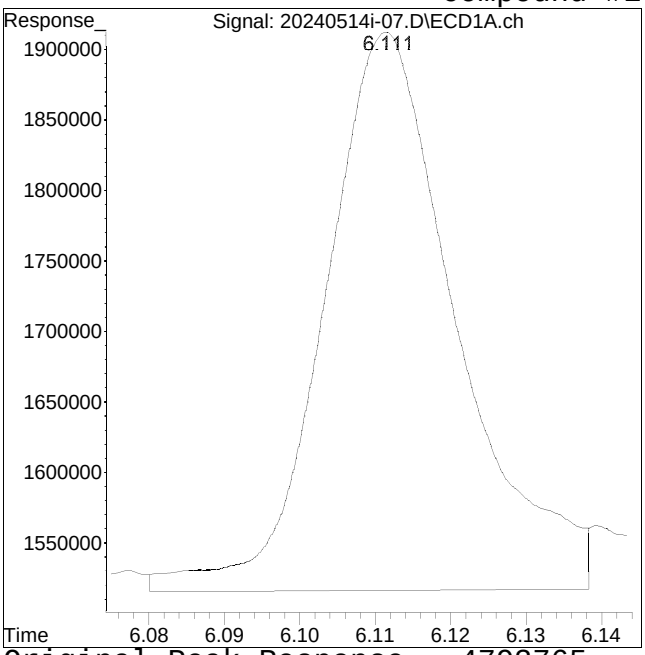
Manual Peak Response = 9736343 M4

M4 = Poor automated baseline construction.

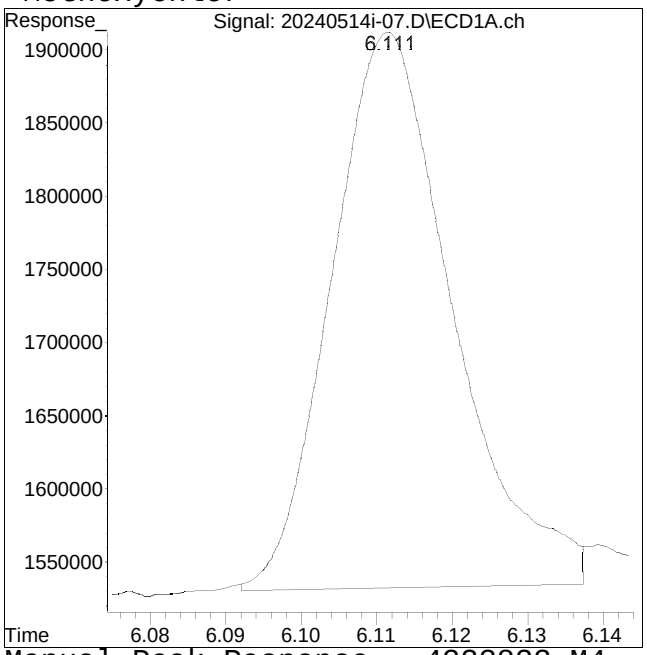
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #23: Methoxychlor



Original Peak Response = 4793765



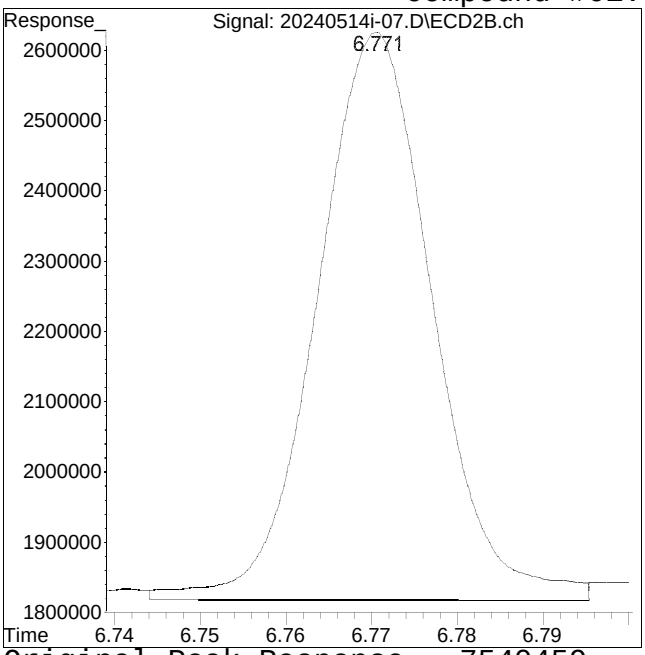
Manual Peak Response = 4223833 M4

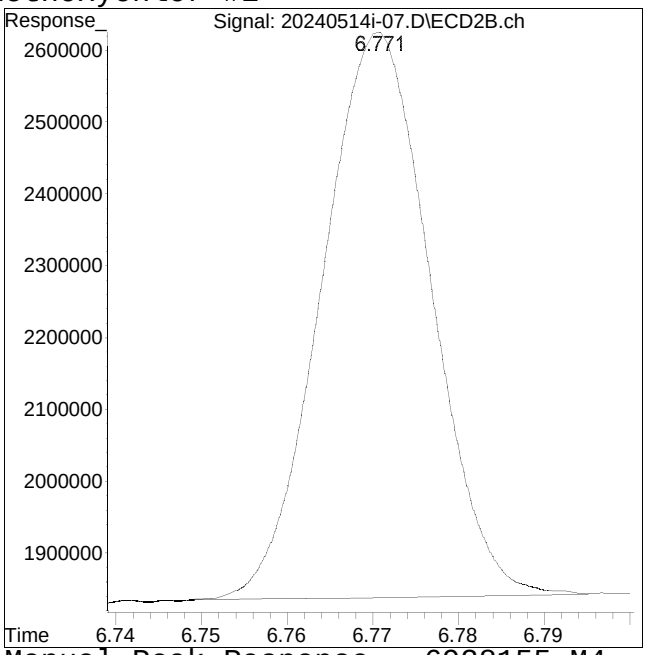
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #61: Methoxychlor #2



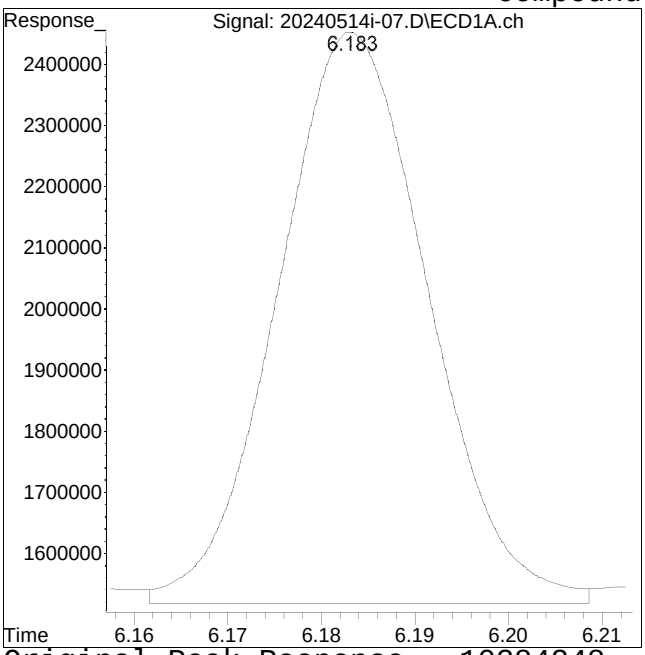


Original Peak Response = 7540459 Manual Peak Response = 6928155 M4
M4 = Poor automated baseline construction.

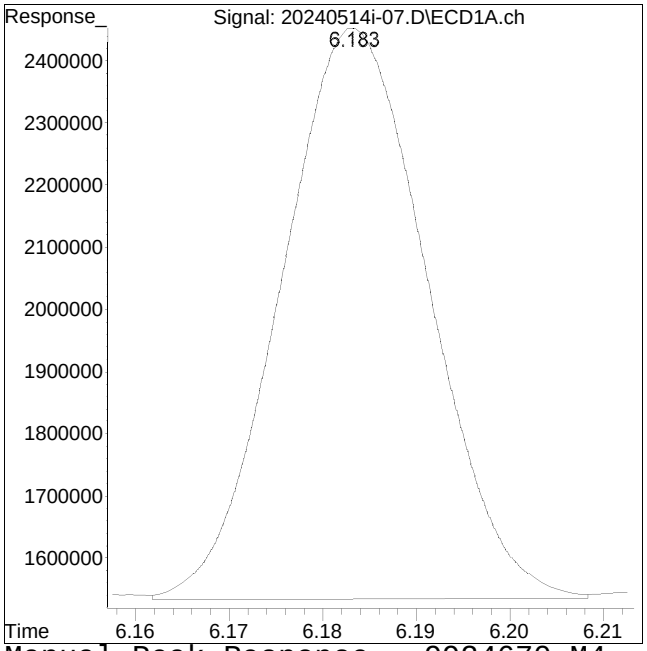
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #24: Mirex



Original Peak Response = 10384248



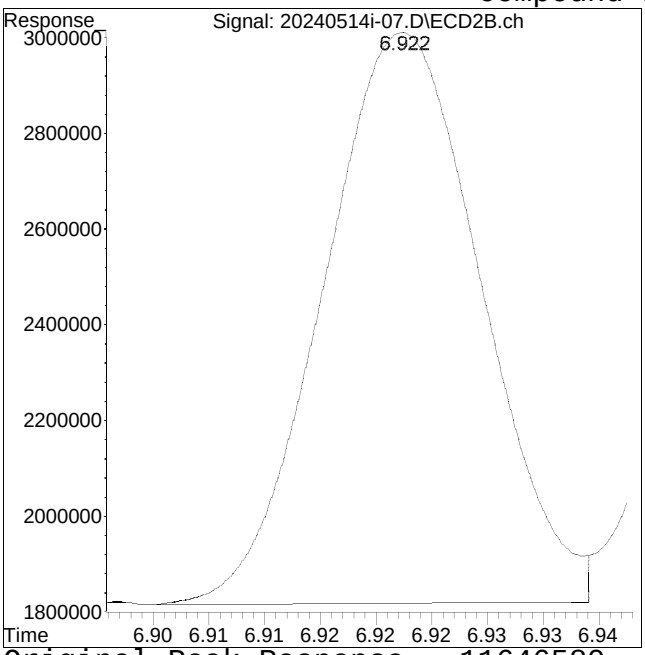
Manual Peak Response = 9924670 M4

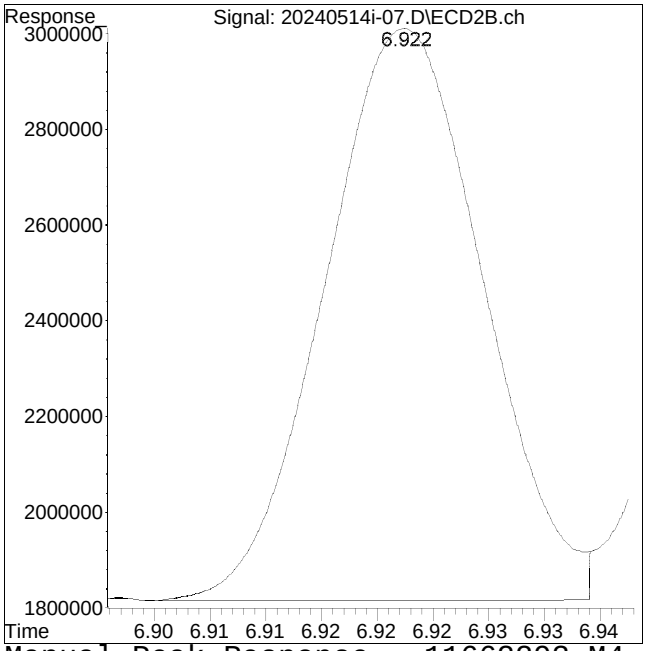
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #62: Mirex #2



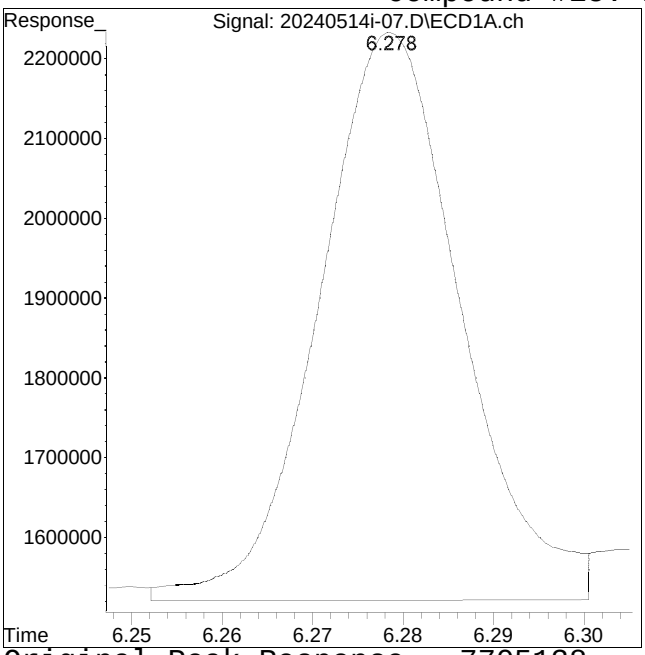


Original Peak Response = 11646580 Manual Peak Response = 11662293 M4
M4 = Poor automated baseline construction.

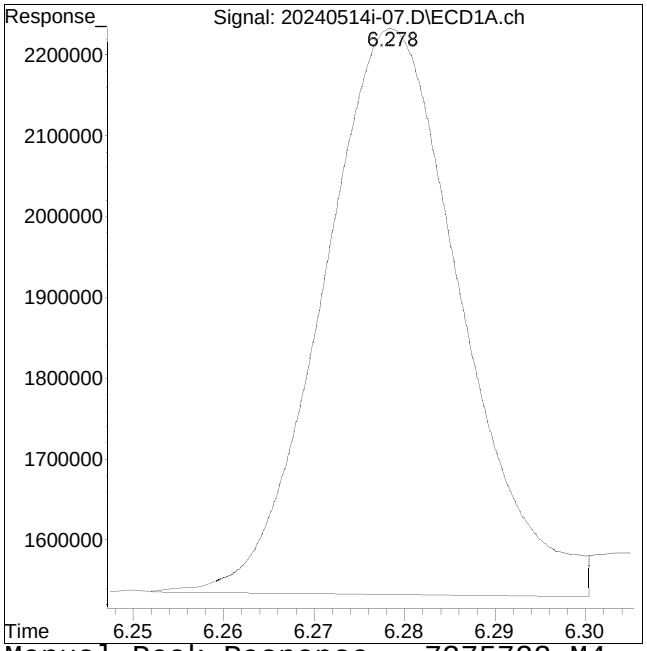
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #25: Endosulfan Sulfate



Original Peak Response = 7705138



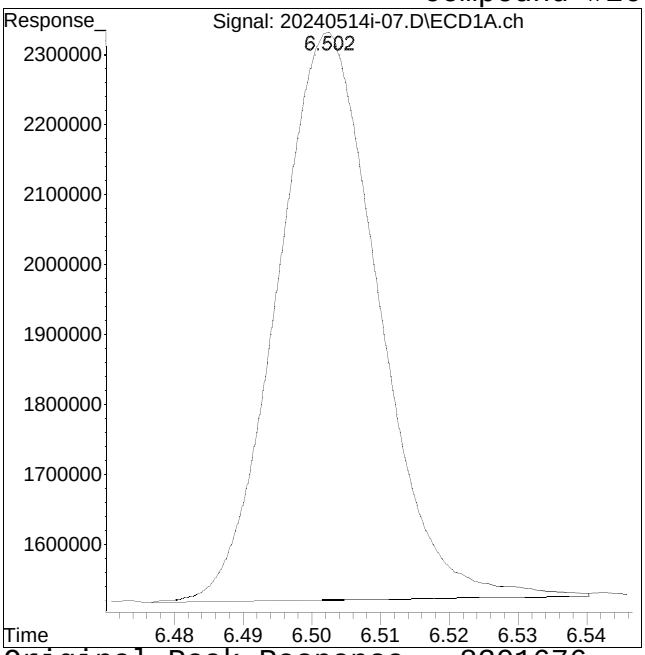
Manual Peak Response = 7375722 M4

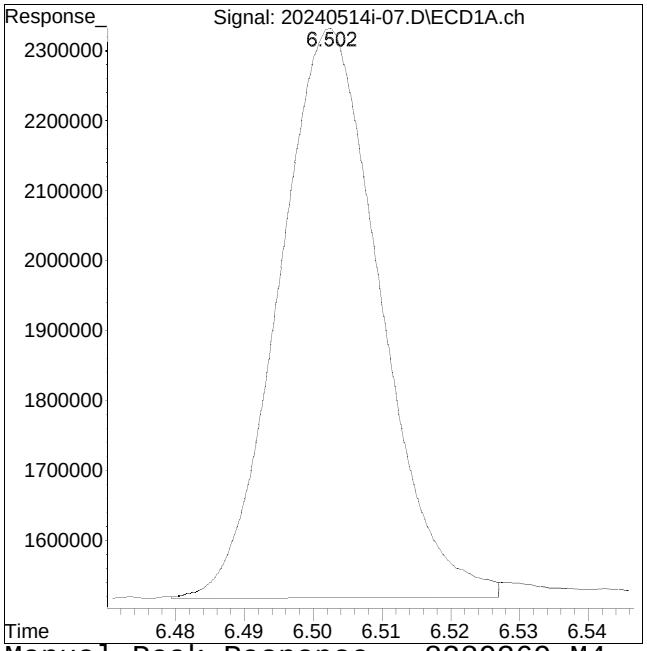
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #26: Endrin Ketone



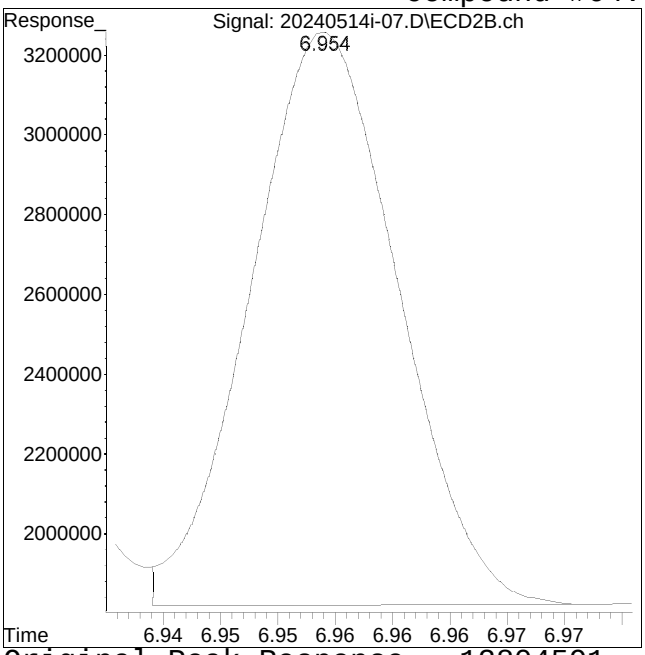


Original Peak Response = 8301676 Manual Peak Response = 8289369 M4
M4 = Poor automated baseline construction.

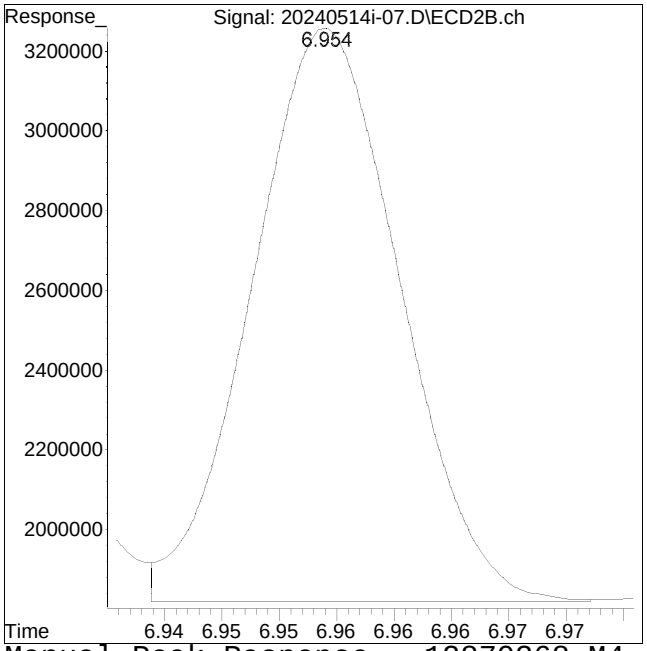
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #64: Endrin Ketone #2



Original Peak Response = 12804591



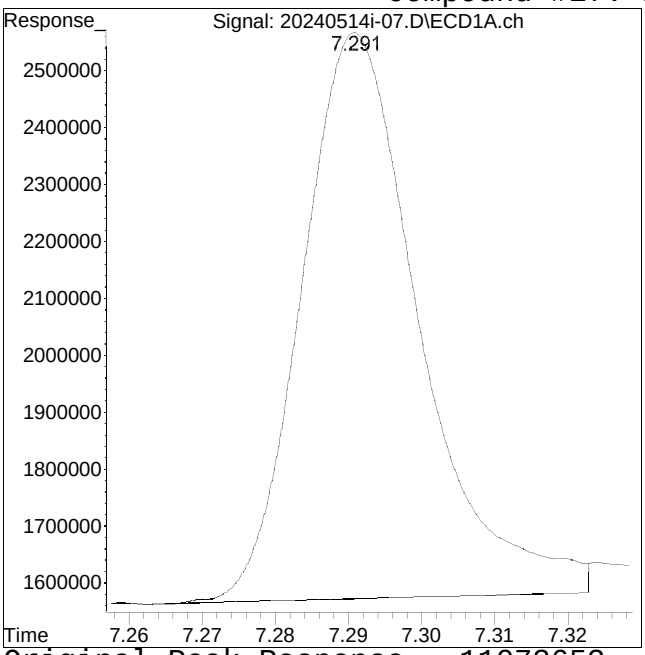
Manual Peak Response = 12870368 M4

M4 = Poor automated baseline construction.

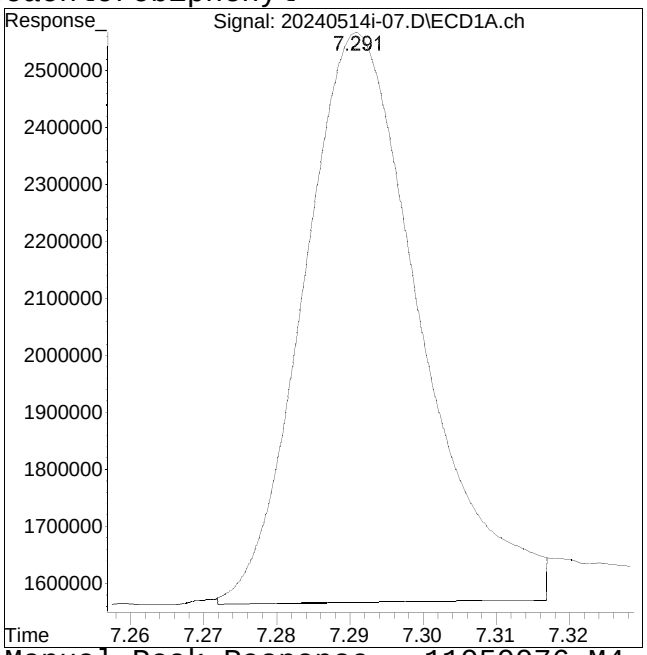
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-07.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:47 pm Instrument : PEST 20
Sample : il5pest,42e,,pp 11581 L0.0Quant Date : 5/16/2024 10:46 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 11073653



Manual Peak Response = 11050076 M4

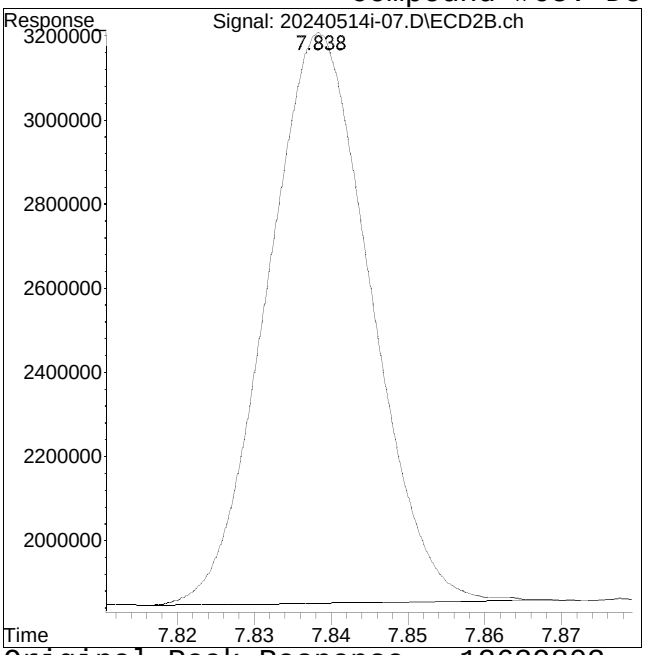
M4 = Poor automated baseline construction.

Manual Integration Report

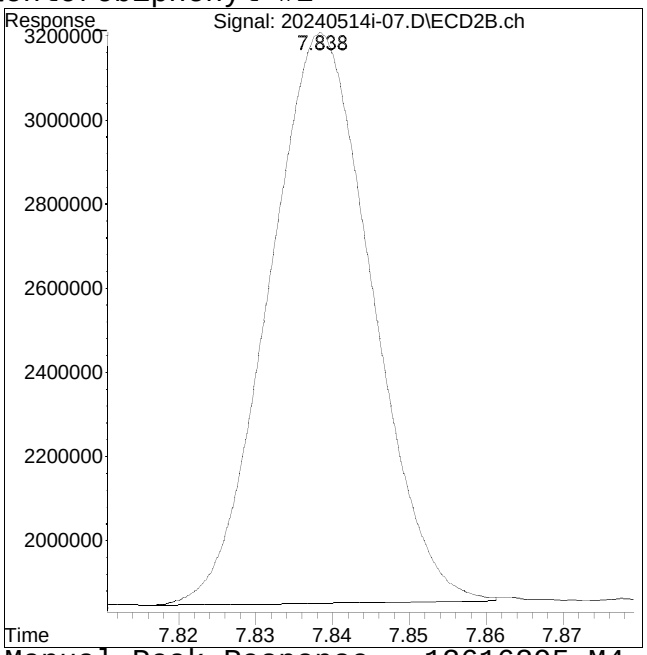
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-07.D
Date Inj'd : 5/14/2024 5:47 pm
Sample : il5pest,42e,,pp 11581 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:46 am

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 12639803



Manual Peak Response = 12616295 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 05:59 pm
Operator : pest20:peg
Sample : il7pest,42e,,pp 11580 L0.01 (Sig #1); il7pest,42e,,pp 11567 L0.01 (Sig #2)
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 10:45:41 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 10:45:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.933	1.972	51391652	68317547	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.405	2.576	23526920	30347910	11.054M4	10.837M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		22.11%#	21.67%#
27) s	Decachlorobi	7.288	7.834	25179079	29050001	12.035M4	11.899M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		24.07%#	23.80%#
	Target Compounds						
3)	Hexachlorobe	2.675	2.953	25595378	33104197	11.583M4	11.411M4
4)	alpha-BHC	2.798	3.067	27405104	36459340	10.051M4	9.890M4
5)	gamma-BHC (l	3.043	3.391	25846163	34515762	10.347M4	10.203M4
6)	beta-BHC	3.112	3.465	13846784	18186955	11.733M4	11.426M4
7)	delta-BHC	3.262	3.761	22319961	33343348	9.478M4	9.802M4
8)	Heptachlor	3.450	3.831	26497310	33845945	10.942M4	10.722M4
9)	Aldrin	3.728	4.179	26011119	31707908	10.506M4	10.247M4
10)	Alachlor	3.870	4.057	3989317	5519909	12.119M4	12.269
11)	Chlorpyrifos	3.973	4.437	12850401	18634906	12.209M4	12.298M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 05:59 pm
Operator : pest20:peg
Sample : il7pest,42e,,pp 11580 L0.01 (Sig #1); il7pest,42e,,pp 11567 L0.01 (Sig #2)
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 10:45:41 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 10:45:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	Heptachlor E	4.340	4.840	25658802	32749880	11.108M4	10.917M4
13)	gamma-Chlord	4.477	5.059	23344072	28584982	10.944M4	10.743M3
14)	alpha-Chlord	4.625	5.218	26656565	31873899	11.053M4	10.766M4
15)	4,4'-DDE	4.730	5.401	24208337	30843575	10.322M4	10.280M4
16)	Endosulfan I	4.773	5.276	24547819	29648642	10.996M4	10.676M4
17)	Dieldrin	5.043	5.554	24897840	29964686	10.664M4	10.306M4
18)	Endrin	5.282	5.841	24806780	30462613	10.646M4	10.319M4
19)	4,4'-DDD	5.378	5.951	17560650	24987517	9.899M4	10.253M4
20)	Endosulfan I	5.506	6.032	21421617	28137136	10.766M4	10.728M4
21)	4,4'-DDT	5.652	6.220	18933891	27304543	10.211M4	10.416M4
22)	Endrin Aldeh	5.901	6.319	16554157	23094522	10.231M3	10.495M4
23)	Methoxychlor	6.110	6.769	10386083	16516506	10.963M4	11.521M4
24)	Mirex	6.183	6.921	22636279	26385364	12.239M4	11.979
25)	Endosulfan S	6.277	6.542	17587890	26565327	10.463M4	10.880M4
26)	Endrin Keton	6.501	6.954	19732877	30794148	10.404M4	10.847
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 05:59 pm
Operator : pest20:peg
Sample : il7pest,42e,,pp 11580 L0.01 (Sig #1); il7pest,42e,,pp 11567 L0.01 (Sig #2)
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 10:45:41 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 10:45:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

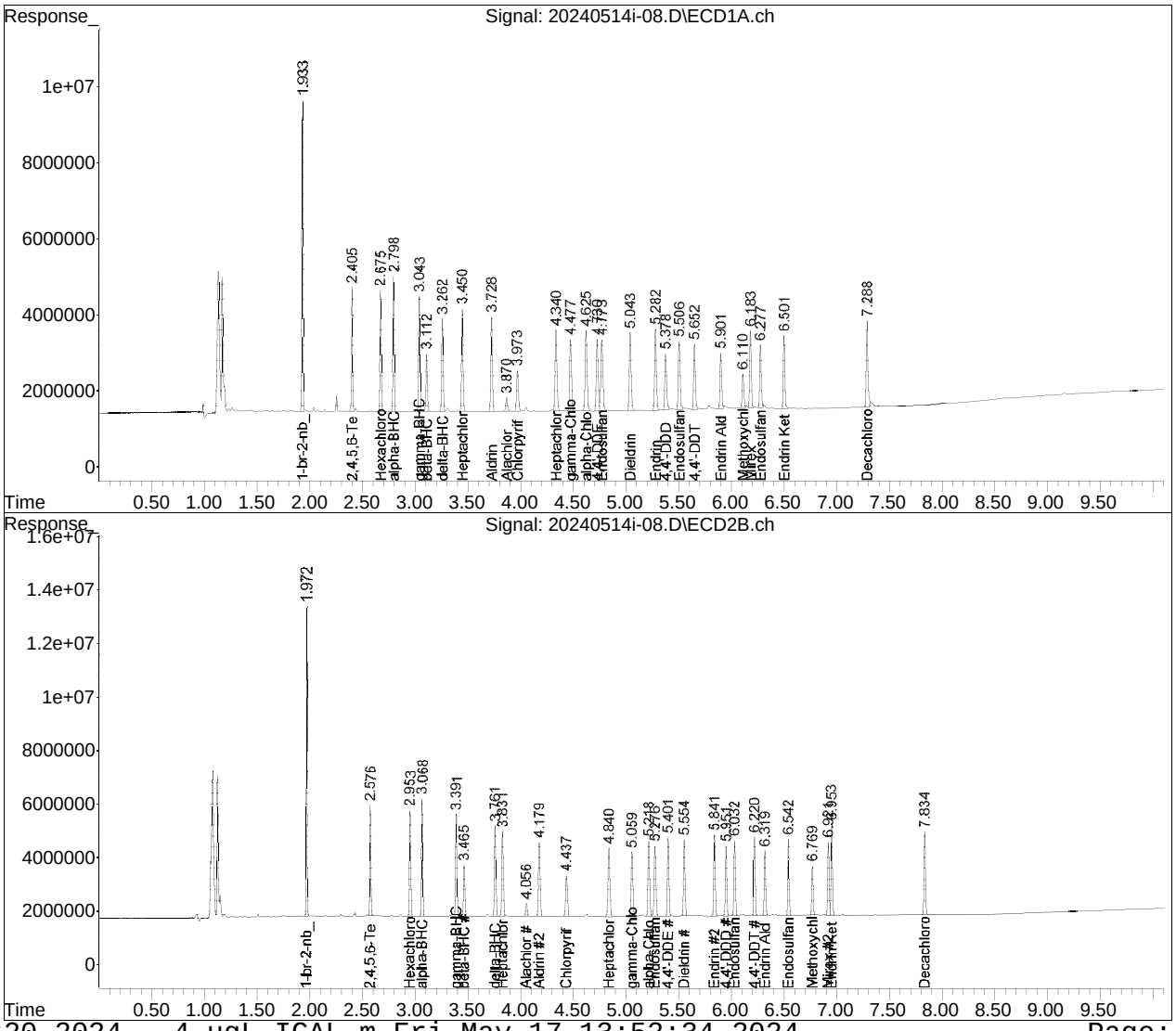
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 05:59 pm
Operator : pest20:peg
Sample : il7pest,42e,,pp 11580 L0.01 (Sig #1); il7pest,42e,,pp 11567 L0.01
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 10:45:41 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 10:45:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

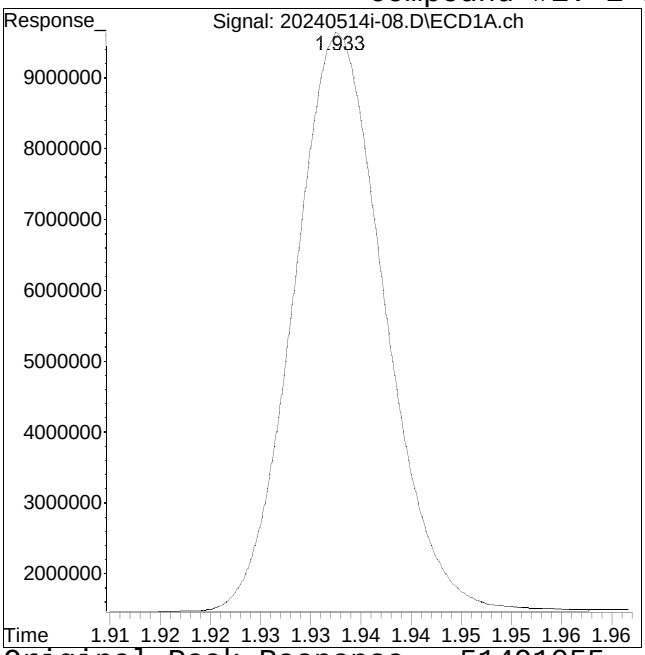


Manual Integration Report

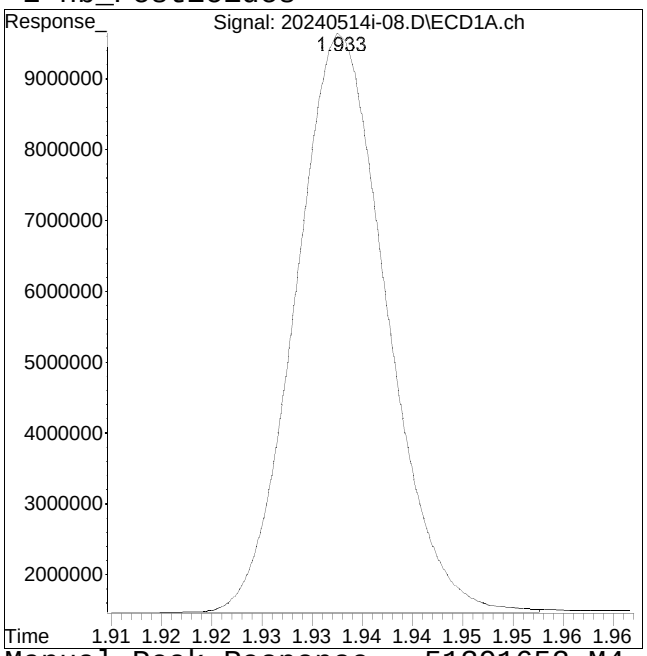
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-08.D
Date Inj'd : 5/14/2024 5:59 pm
Sample : il7pest,42e,,pp 11580 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:45 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 51491055



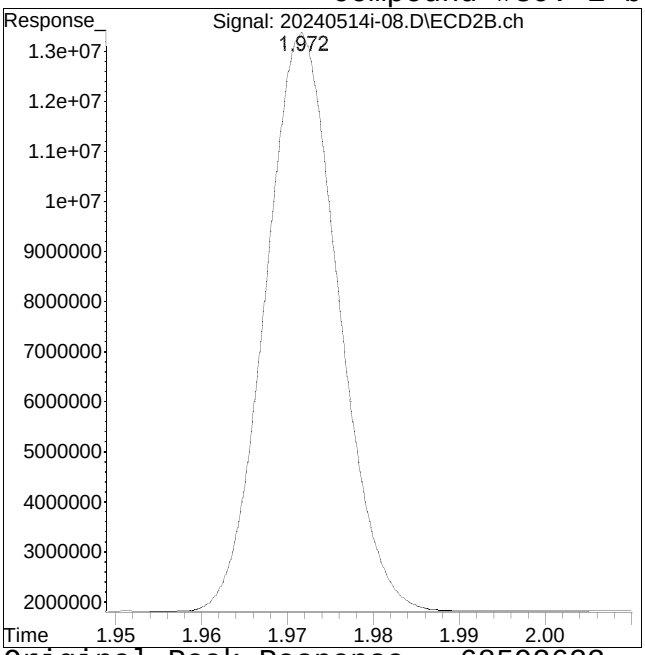
Manual Peak Response = 51391652 M4

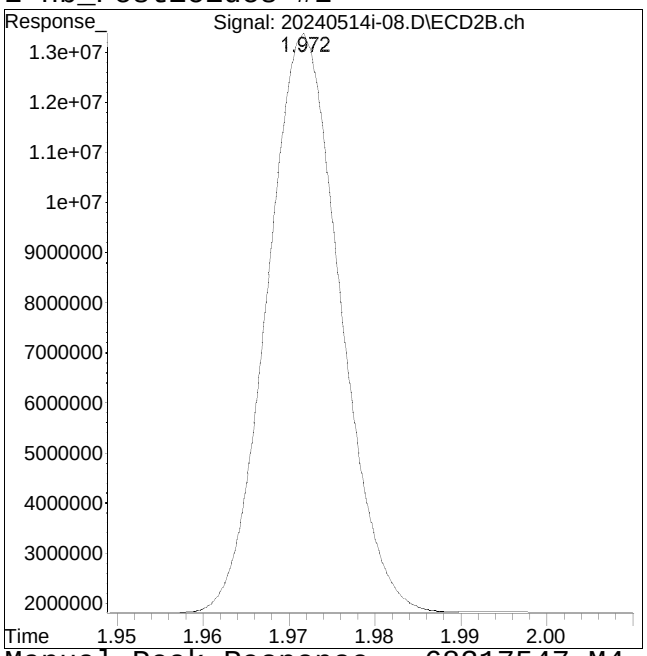
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #39: 1-br-2-nb_Pesticides #2





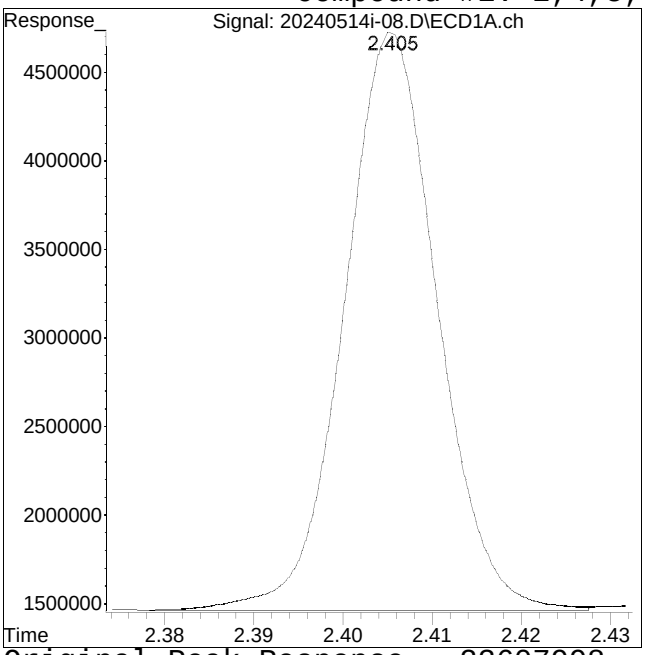
Original Peak Response = 68592633 Manual Peak Response = 68317547 M4
M4 = Poor automated baseline construction.

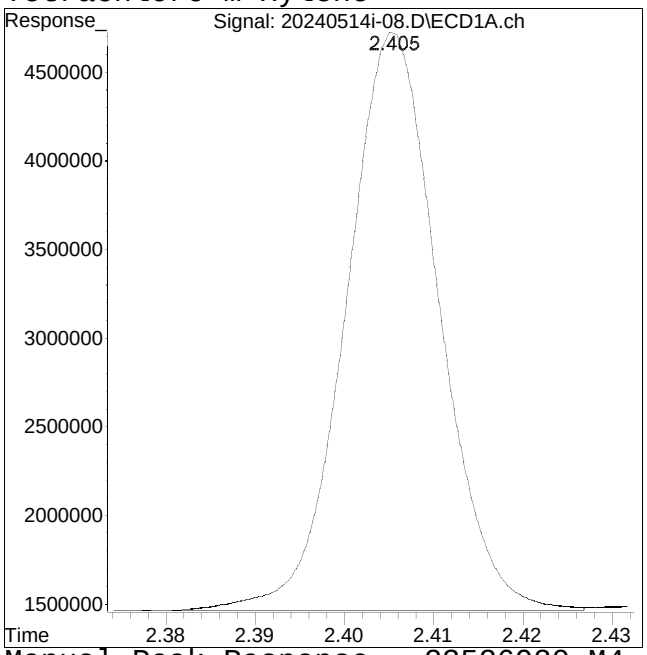
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-08.D
Date Inj'd : 5/14/2024 5:59 pm
Sample : il7pest,42e,,pp 11580 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:45 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





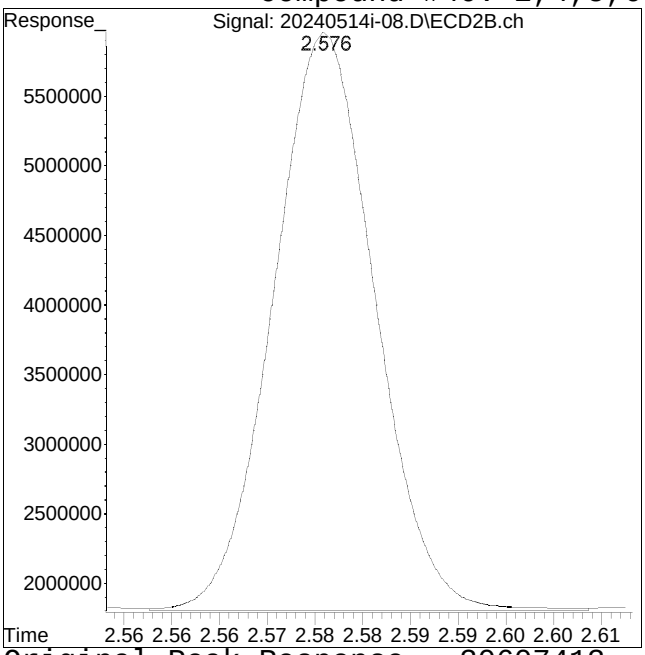
Original Peak Response = 23607998 Manual Peak Response = 23526920 M4
M4 = Poor automated baseline construction.

Manual Integration Report

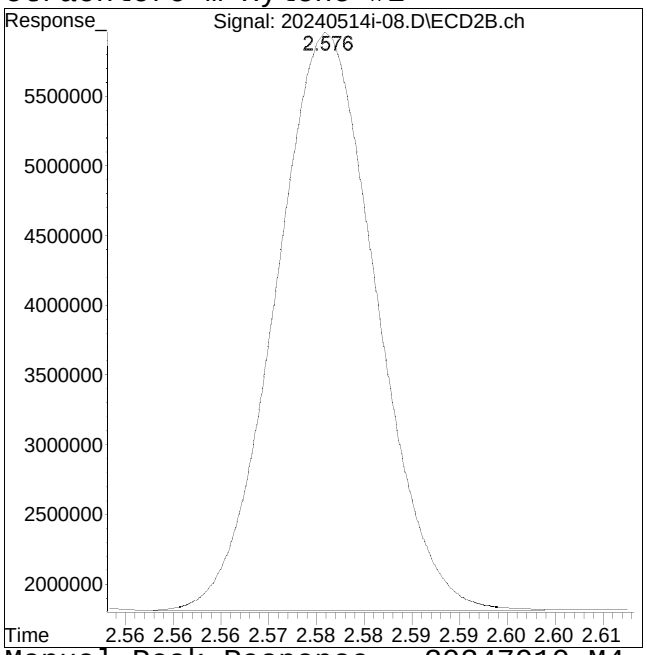
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-08.D
Date Inj'd : 5/14/2024 5:59 pm
Sample : il7pest,42e,,pp 11580 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:45 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 30607413



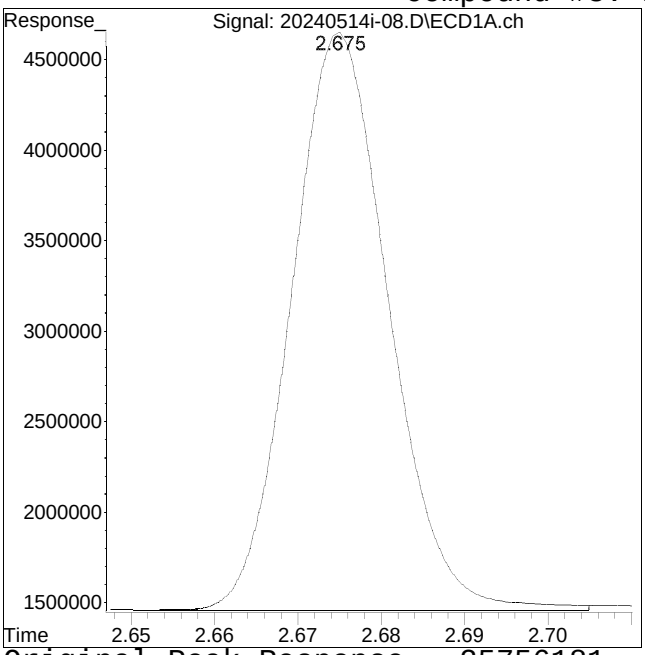
Manual Peak Response = 30347910 M4

M4 = Poor automated baseline construction.

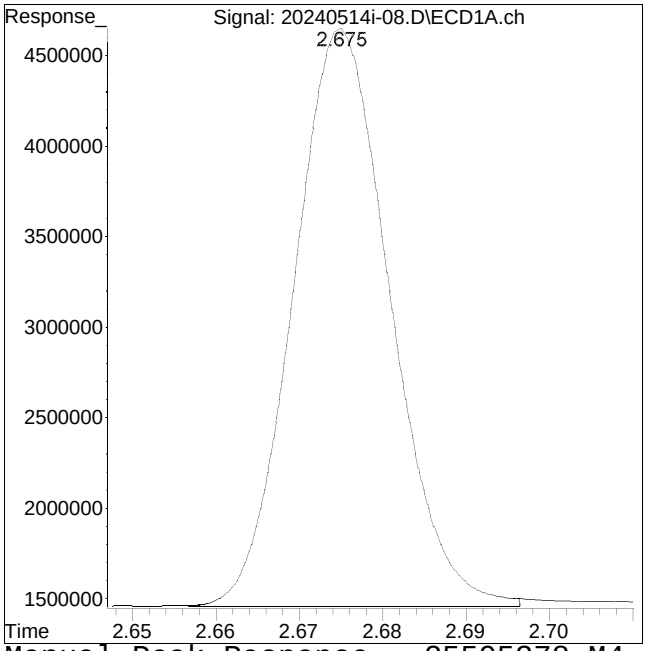
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #3: Hexachlorobenzene



Original Peak Response = 25756181



Manual Peak Response = 25595378 M4

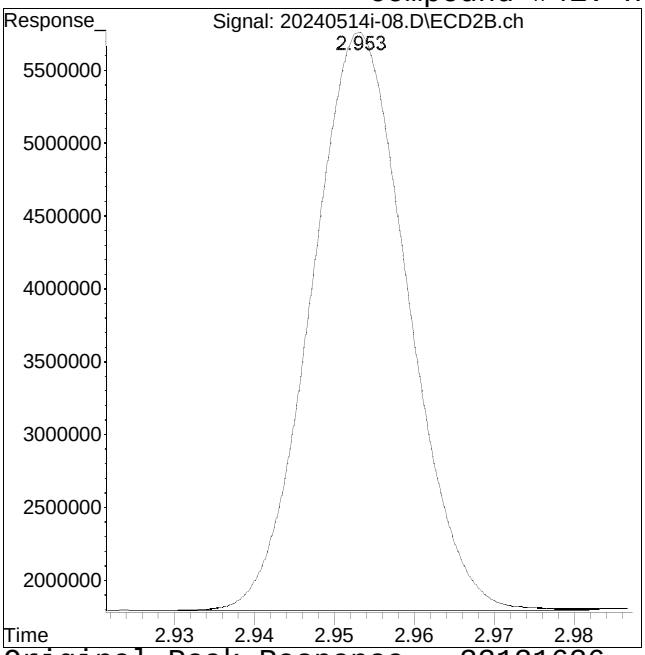
M4 = Poor automated baseline construction.

Manual Integration Report

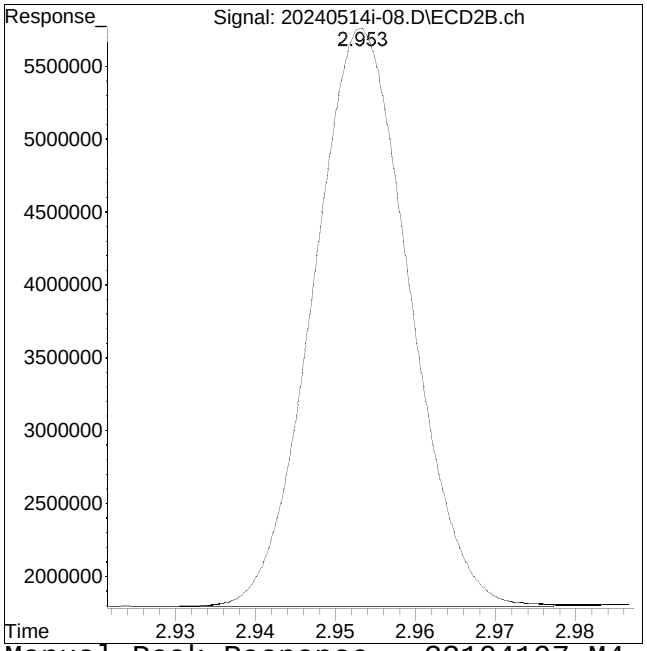
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-08.D
Date Inj'd : 5/14/2024 5:59 pm
Sample : il7pest,42e,,pp 11580 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:45 am

Compound #41: Hexachlorobenzene #2



Original Peak Response = 33131636



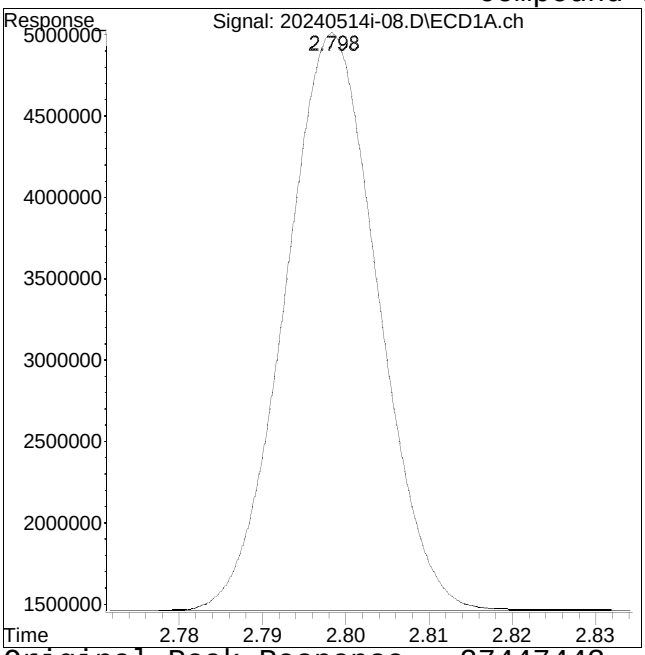
Manual Peak Response = 33104197 M4

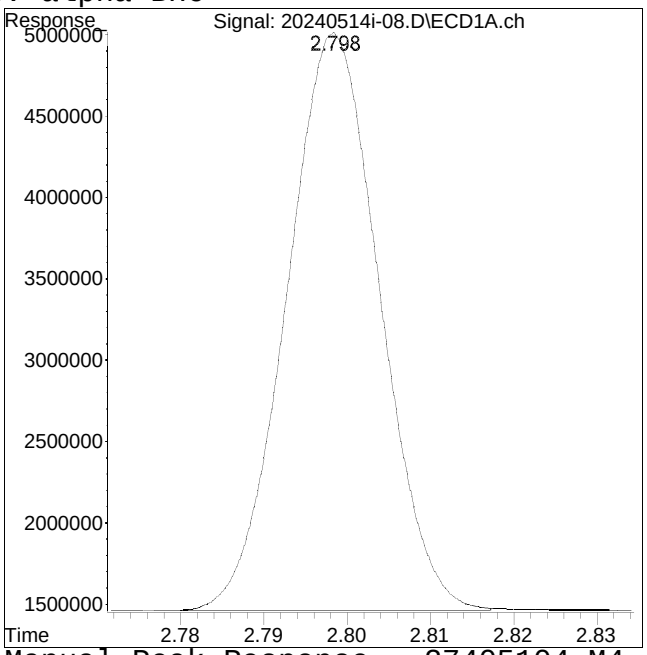
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #4: alpha-BHC



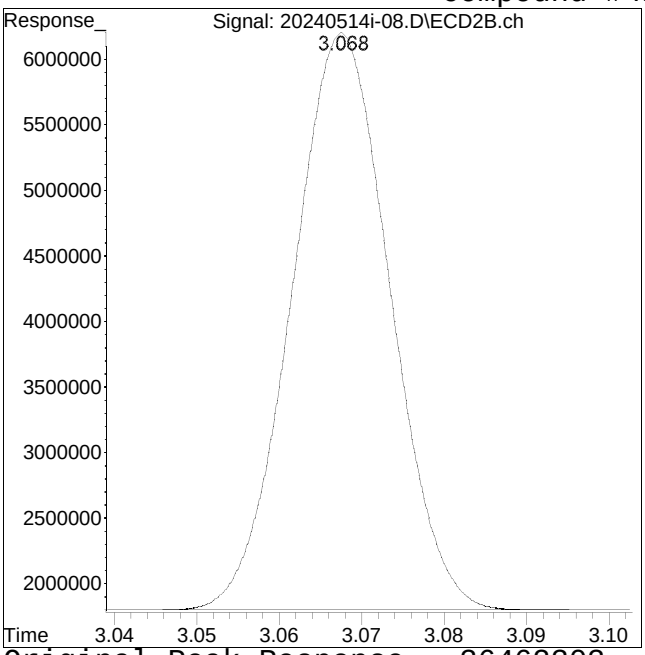


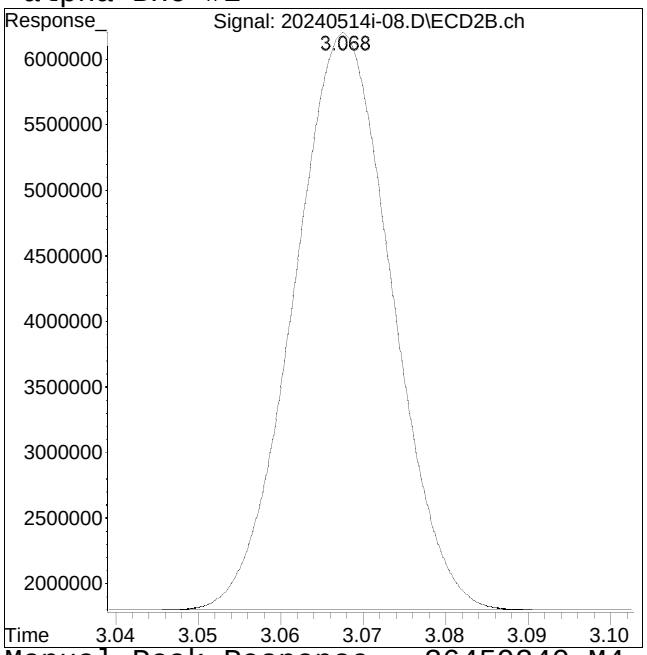
Original Peak Response = 27447443 Manual Peak Response = 27405104 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #42: alpha-BHC #2



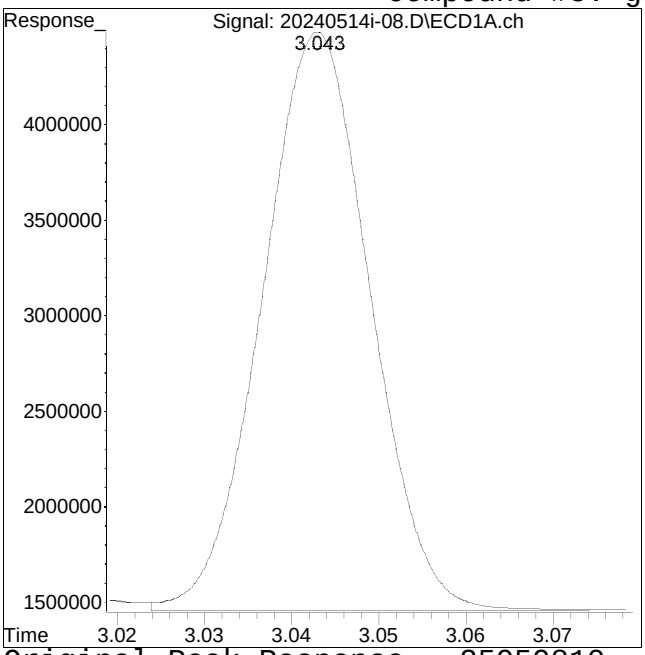


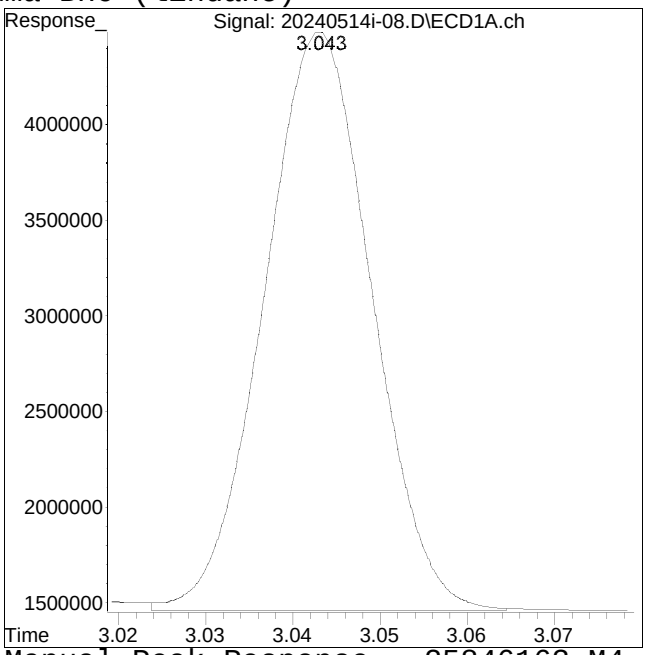
Original Peak Response = 36462303 Manual Peak Response = 36459340 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #5: gamma-BHC (lindane)



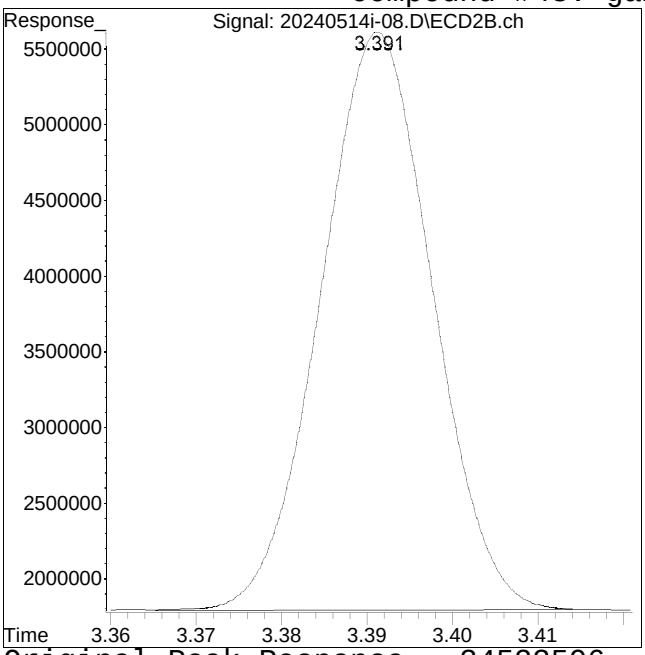


Original Peak Response = 25959810 Manual Peak Response = 25846163 M4
M4 = Poor automated baseline construction.

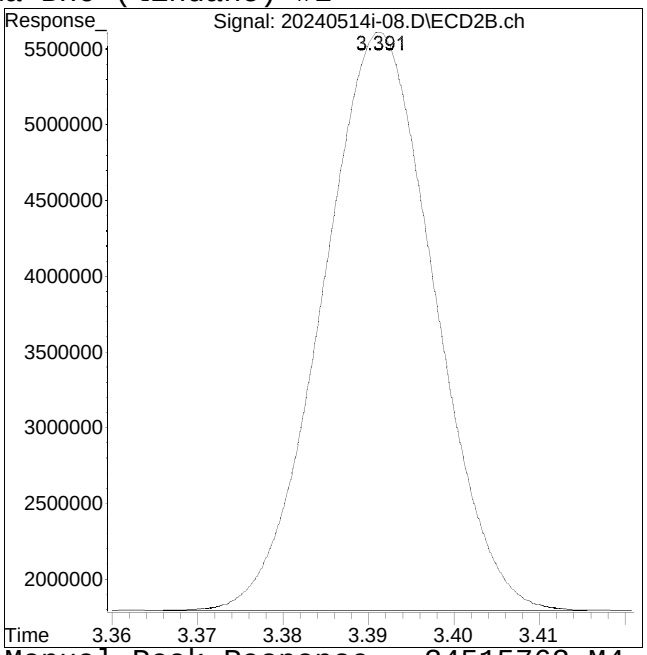
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 34523596



Manual Peak Response = 34515762 M4

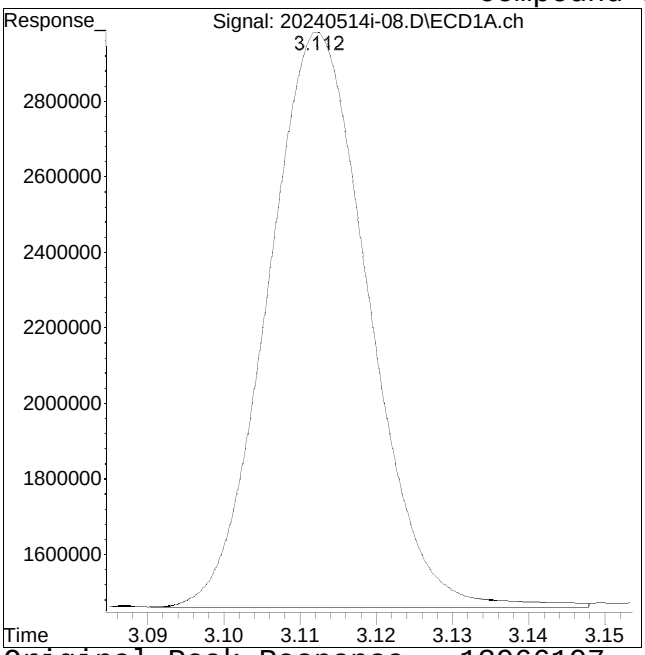
M4 = Poor automated baseline construction.

Manual Integration Report

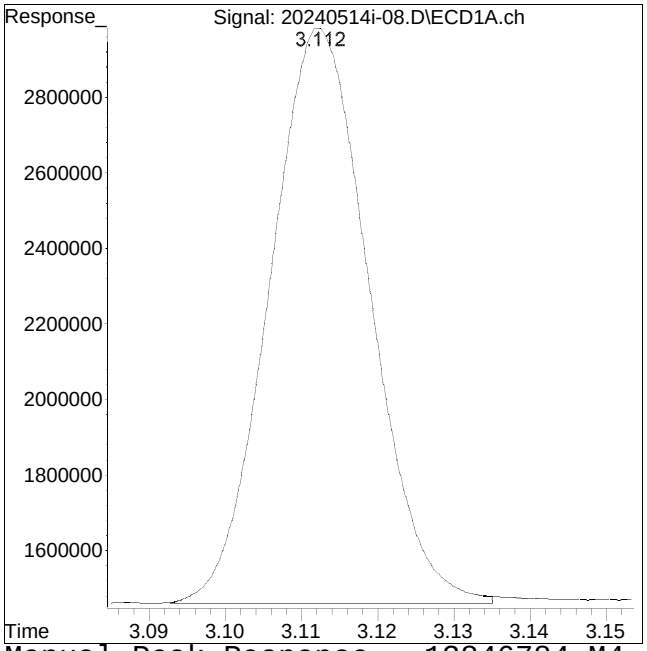
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-08.D
Date Inj'd : 5/14/2024 5:59 pm
Sample : il7pest,42e,,pp 11580 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:45 am

Compound #6: beta-BHC



Original Peak Response = 13966197



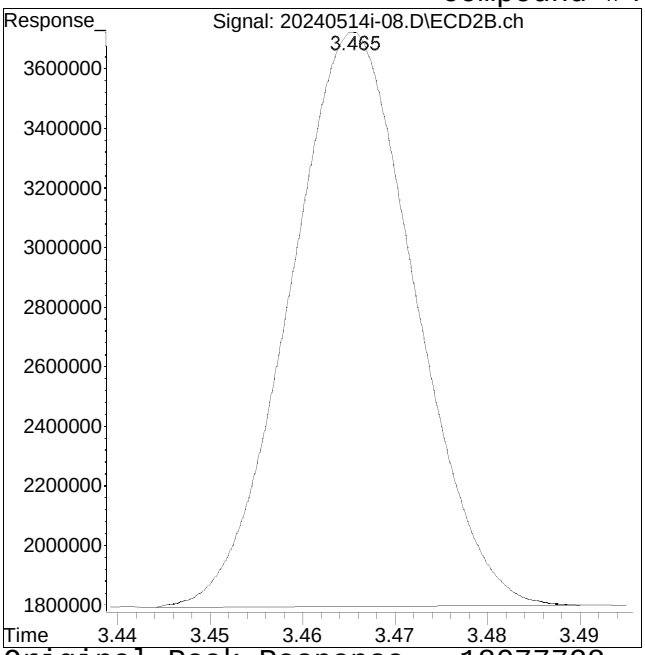
Manual Peak Response = 13846784 M4

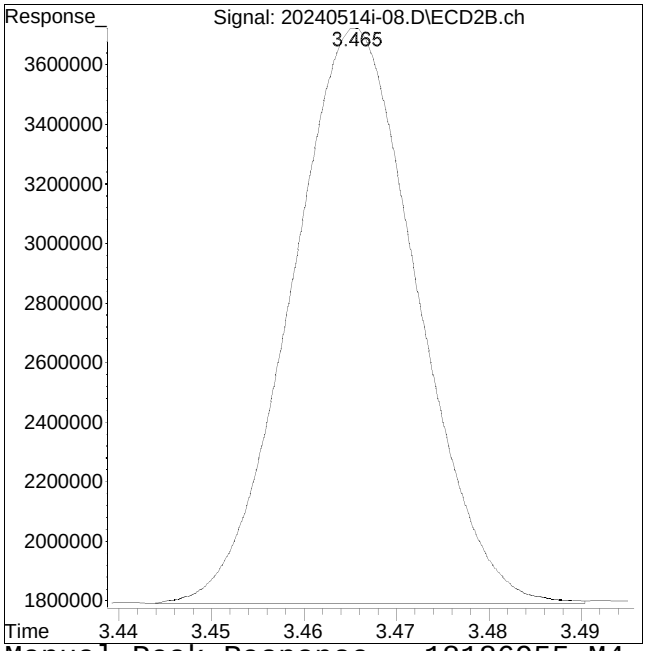
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #44: beta-BHC #2



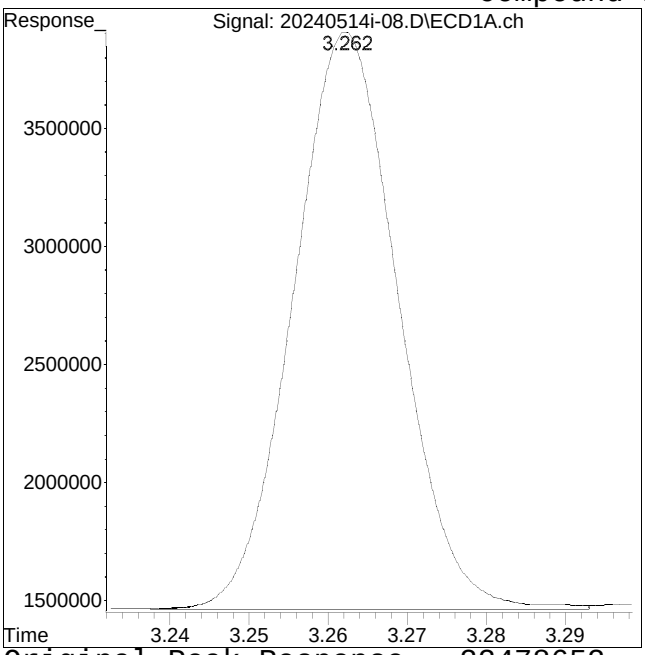


Original Peak Response = 18077728 Manual Peak Response = 18186955 M4
M4 = Poor automated baseline construction.

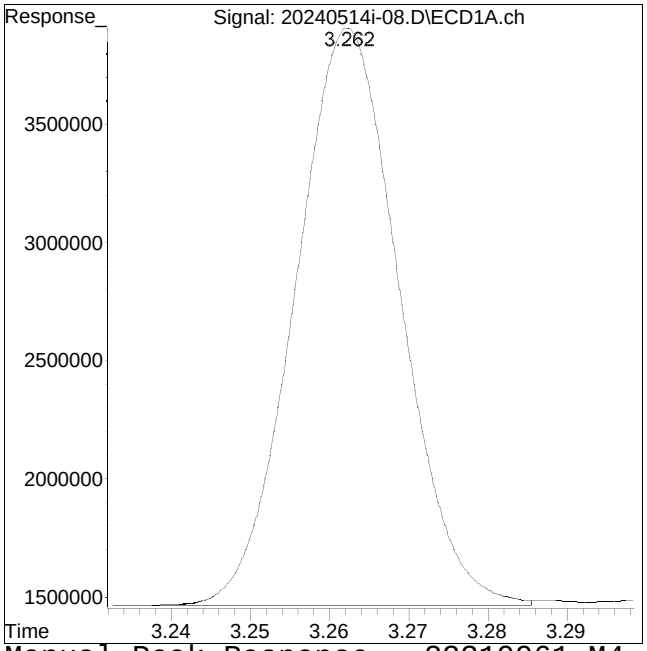
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #7: delta-BHC



Original Peak Response = 22478652



Manual Peak Response = 22319961 M4

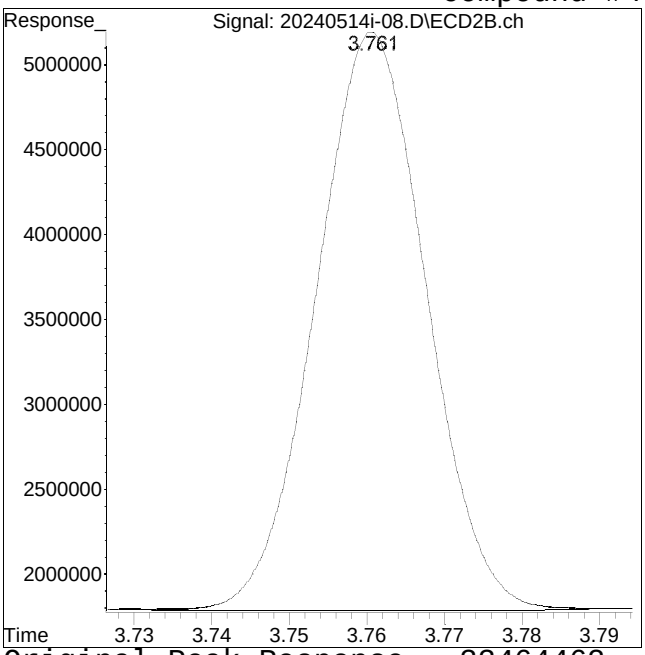
M4 = Poor automated baseline construction.

Manual Integration Report

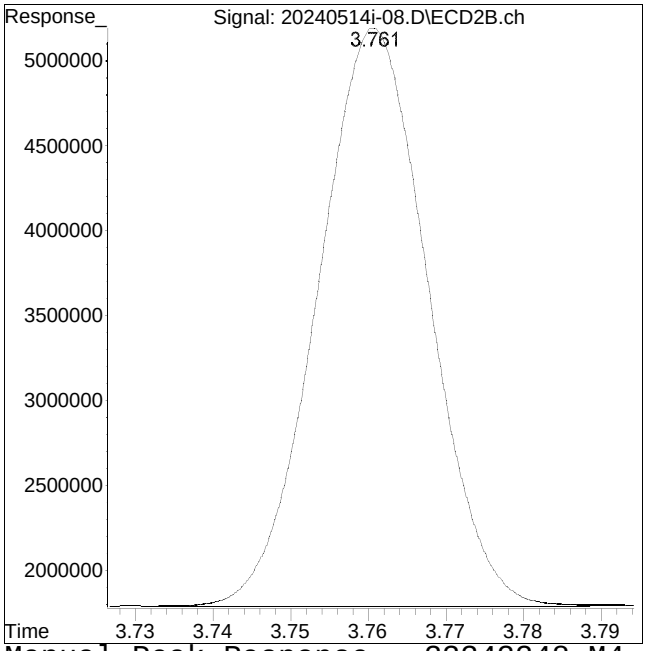
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-08.D
Date Inj'd : 5/14/2024 5:59 pm
Sample : il7pest,42e,,pp 11580 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:45 am

Compound #45: delta-BHC #2



Original Peak Response = 33464462



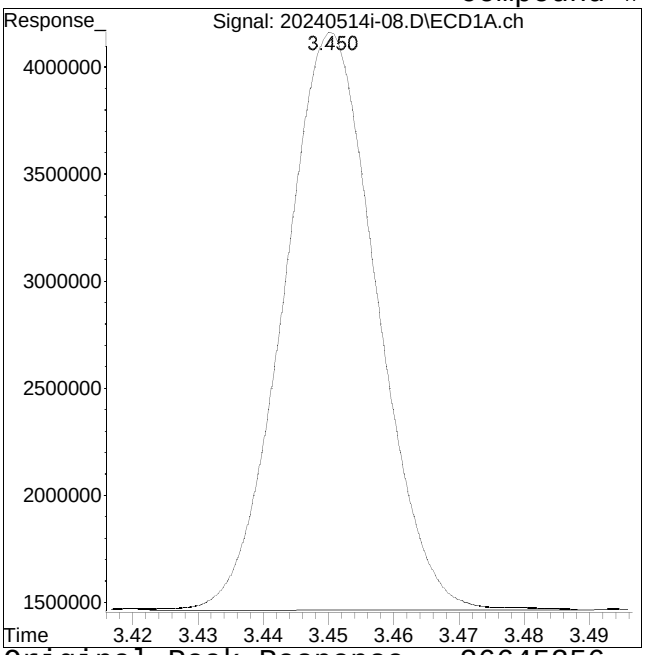
Manual Peak Response = 33343348 M4

M4 = Poor automated baseline construction.

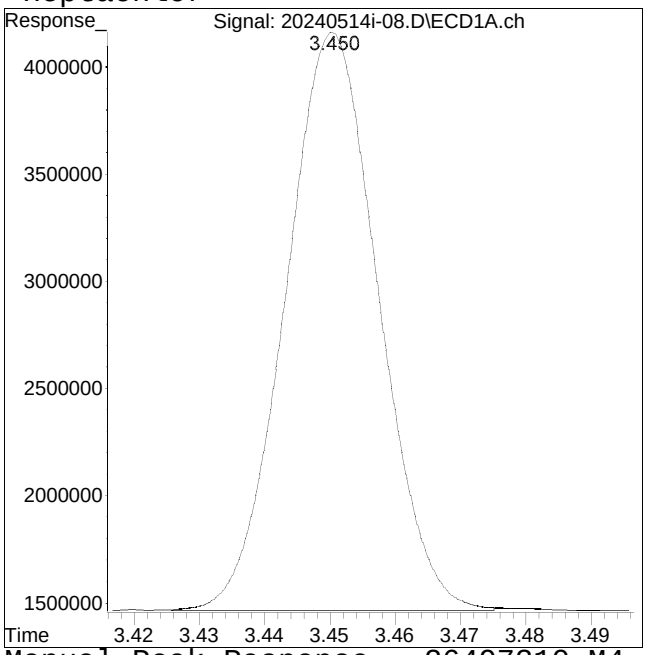
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #8: Heptachlor



Original Peak Response = 26645256



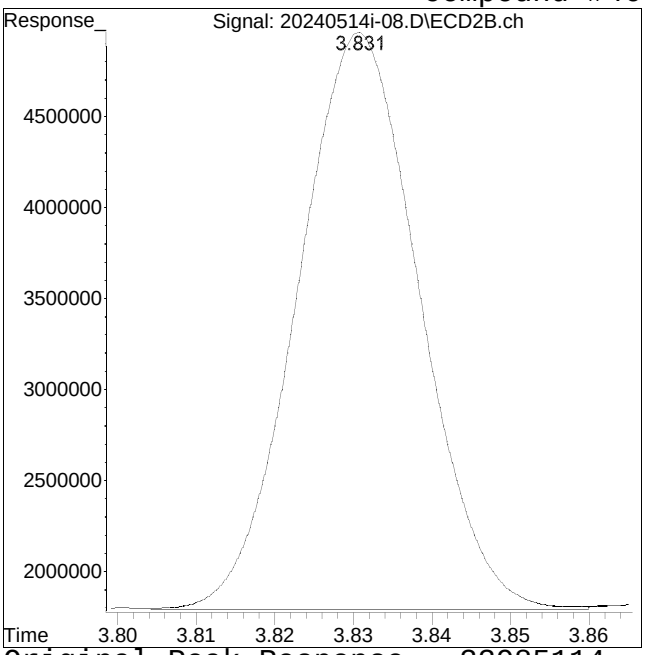
Manual Peak Response = 26497310 M4

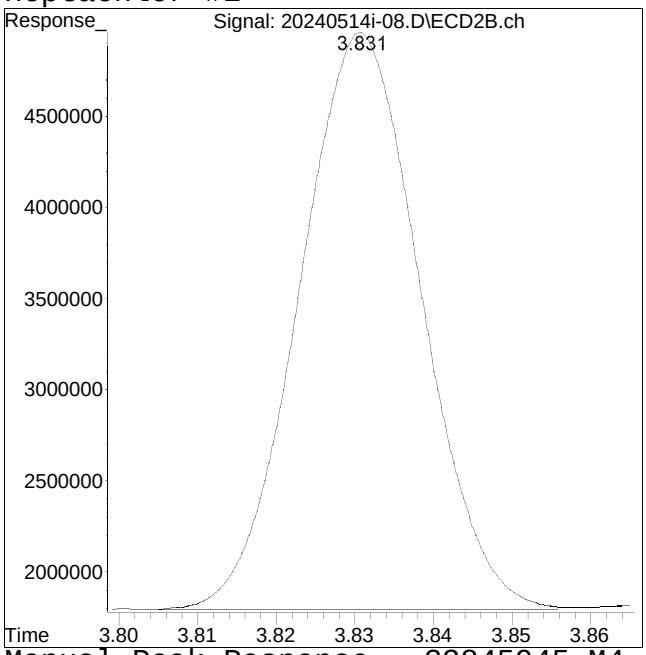
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #46: Heptachlor #2



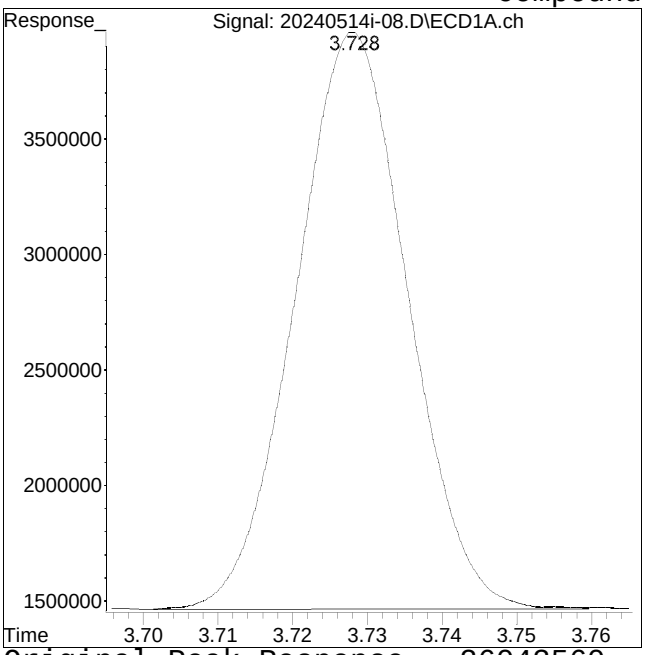


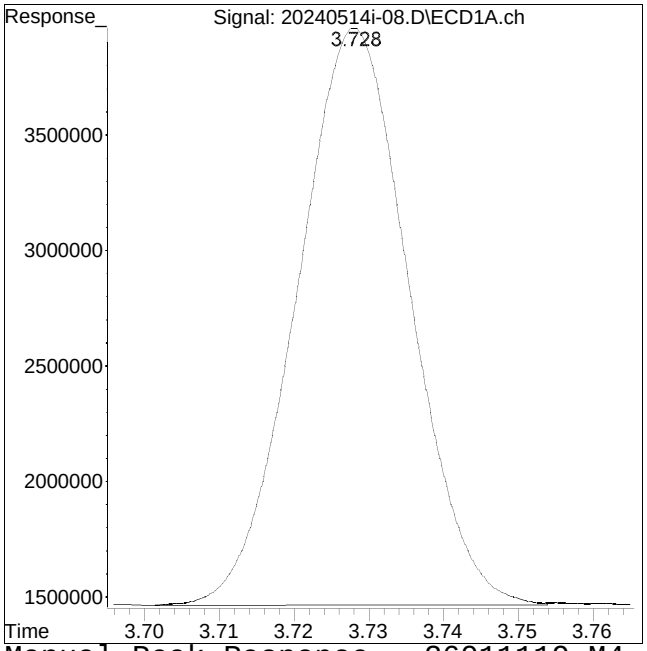
Original Peak Response = 33985114 Manual Peak Response = 33845945 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #9: Aldrin



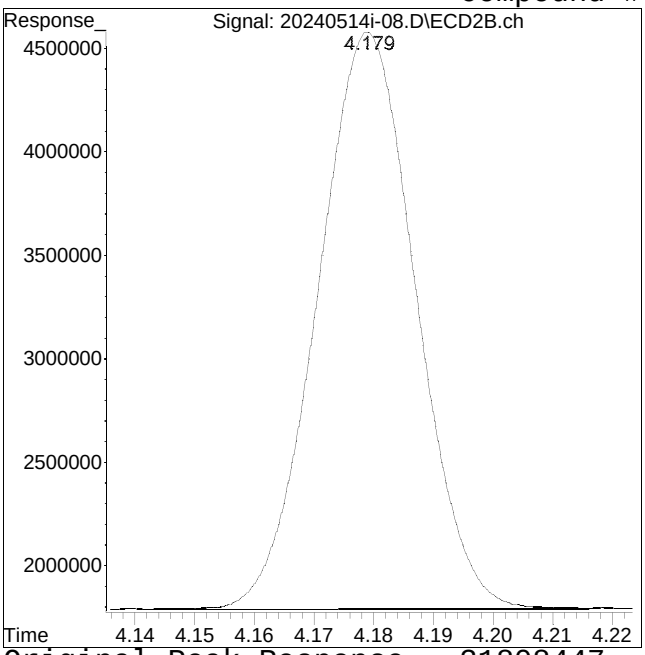


Original Peak Response = 26043560 Manual Peak Response = 26011119 M4
M4 = Poor automated baseline construction.

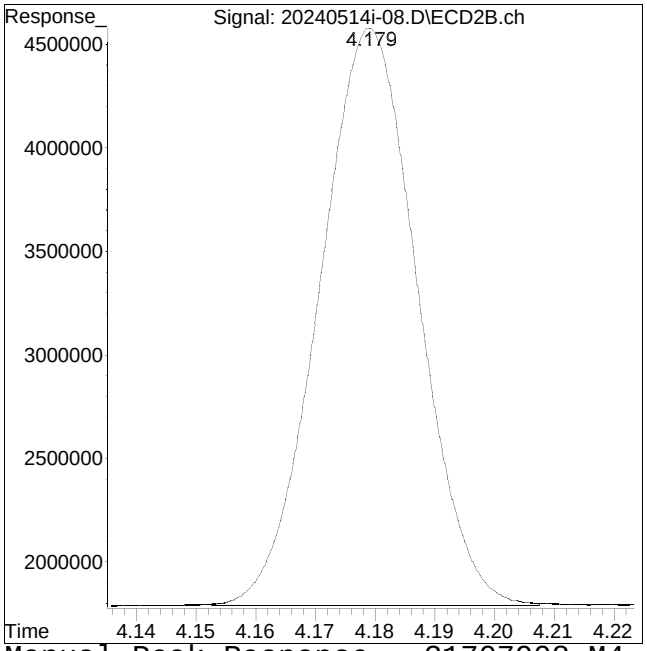
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #47: Aldrin #2



Original Peak Response = 31808447



Manual Peak Response = 31707908 M4

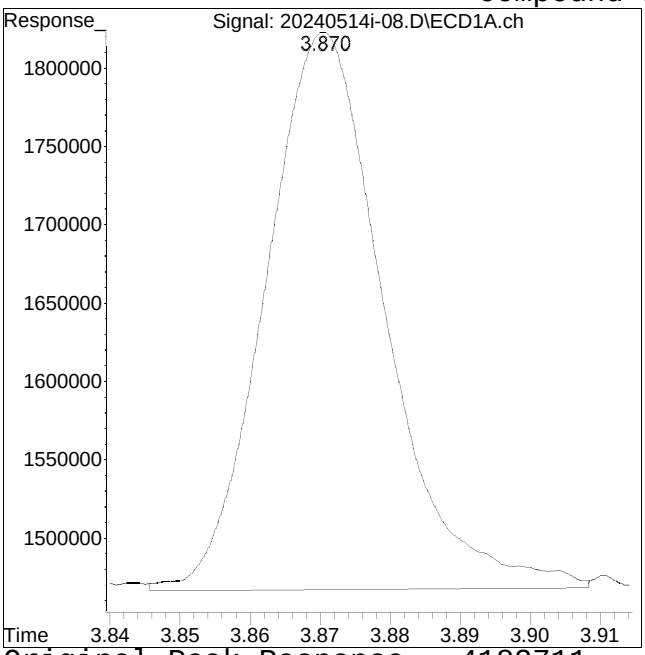
M4 = Poor automated baseline construction.

Manual Integration Report

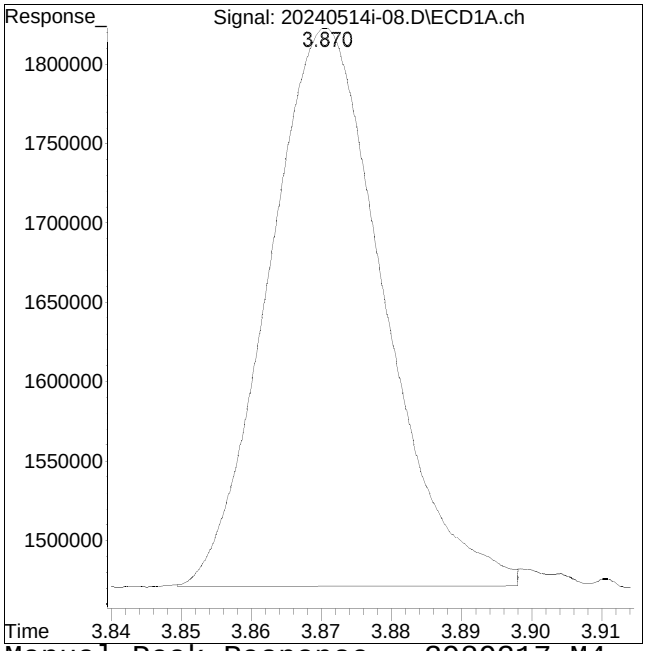
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-08.D
Date Inj'd : 5/14/2024 5:59 pm
Sample : il7pest,42e,,pp 11580 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:45 am

Compound #10: Alachlor



Original Peak Response = 4182711



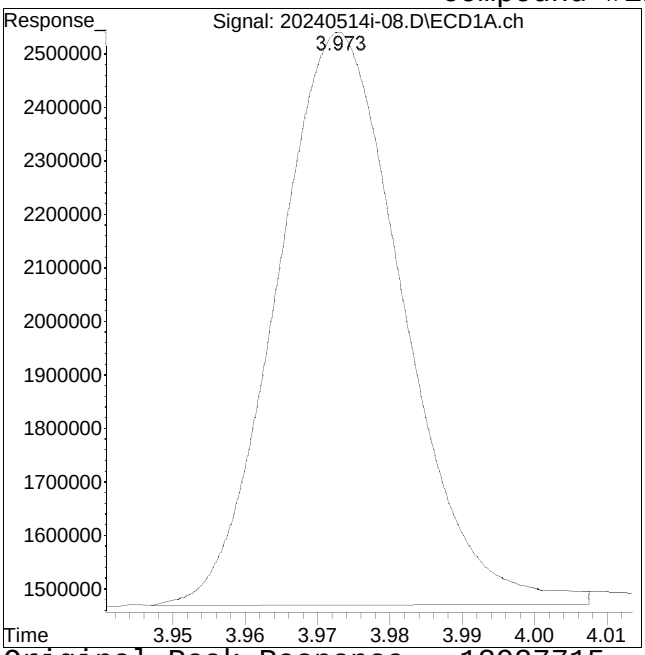
Manual Peak Response = 3989317 M4

M4 = Poor automated baseline construction.

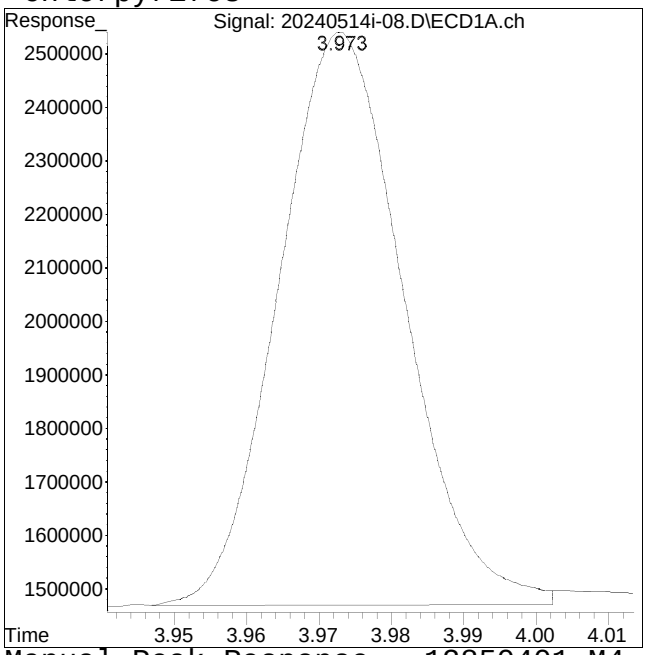
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #11: Chlorpyrifos



Original Peak Response = 12927715



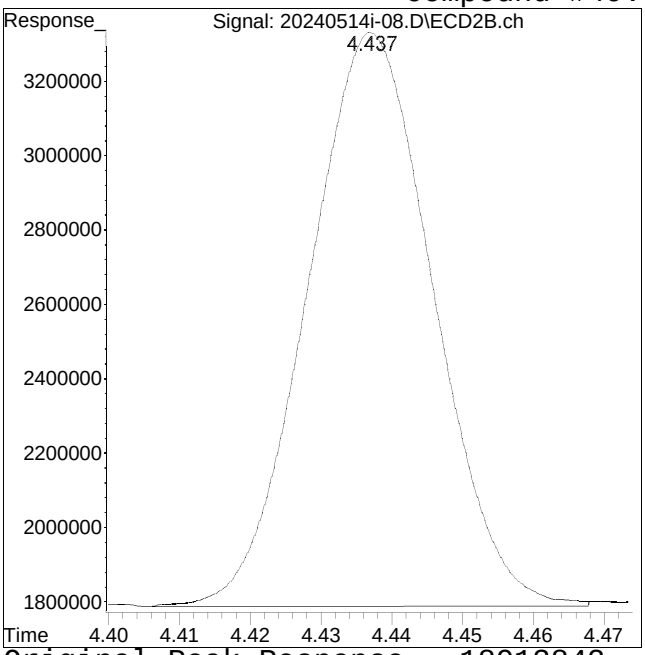
Manual Peak Response = 12850401 M4

M4 = Poor automated baseline construction.

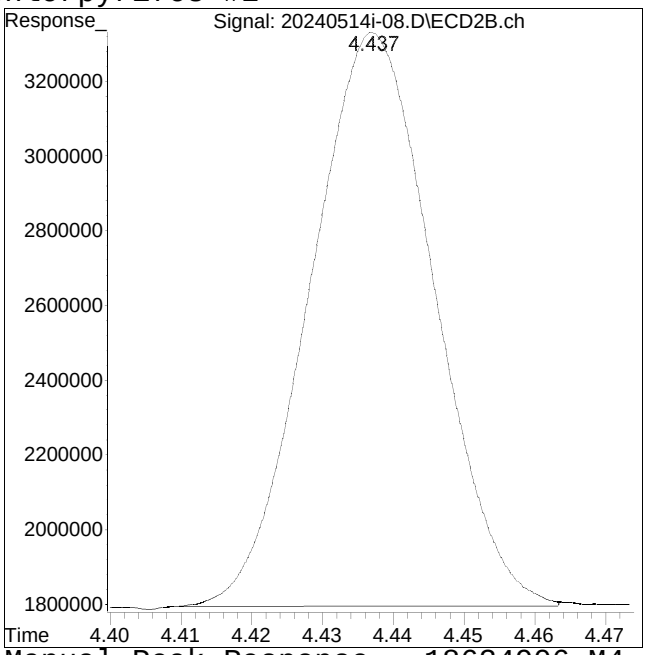
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 18913842



Manual Peak Response = 18634906 M4

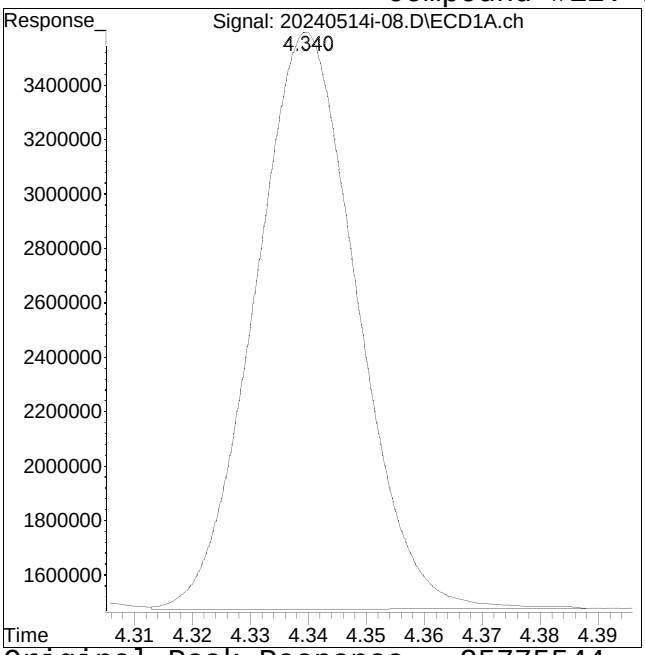
M4 = Poor automated baseline construction.

Manual Integration Report

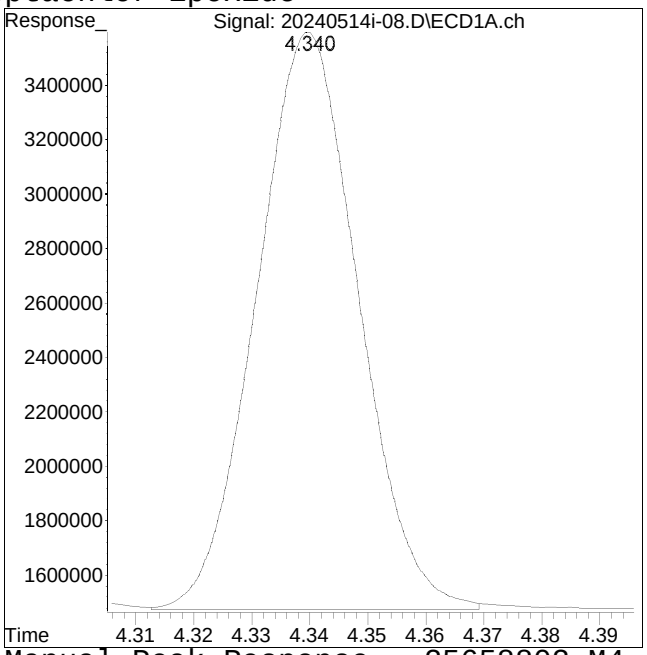
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-08.D
Date Inj'd : 5/14/2024 5:59 pm
Sample : il7pest,42e,,pp 11580 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:45 am

Compound #12: Heptachlor Epoxide



Original Peak Response = 25775544



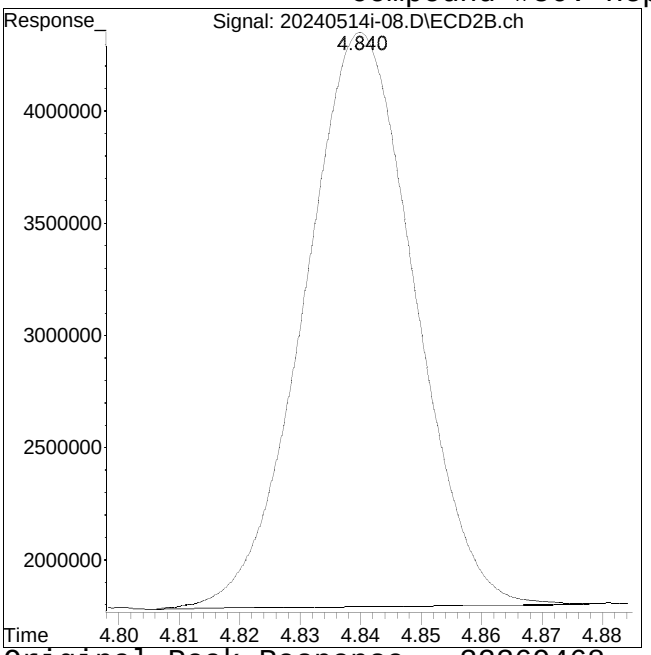
Manual Peak Response = 25658802 M4

M4 = Poor automated baseline construction.

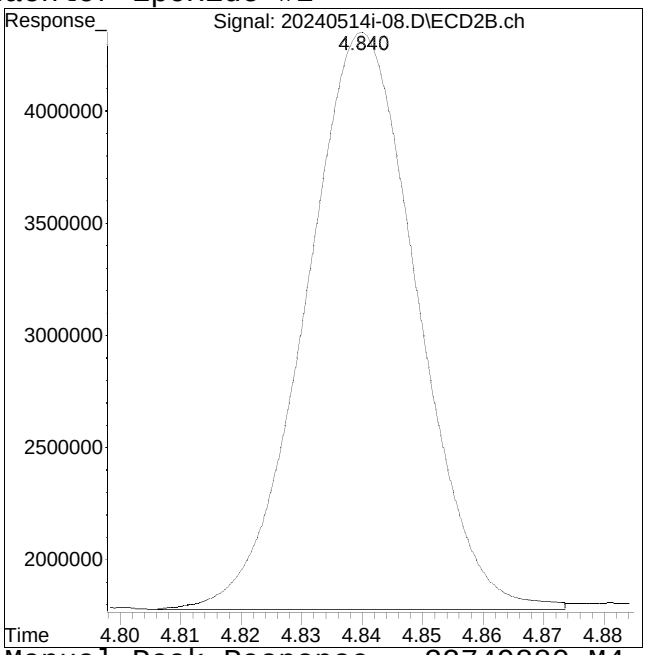
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 32369468



Manual Peak Response = 32749880 M4

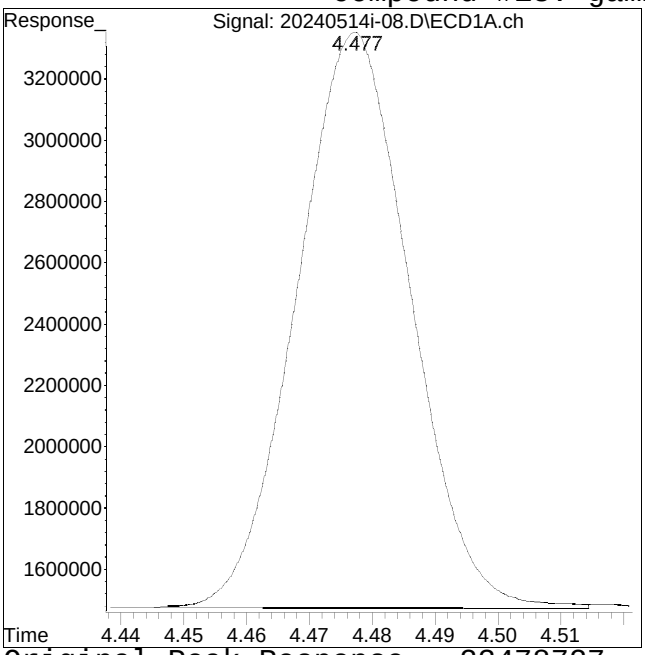
M4 = Poor automated baseline construction.

Manual Integration Report

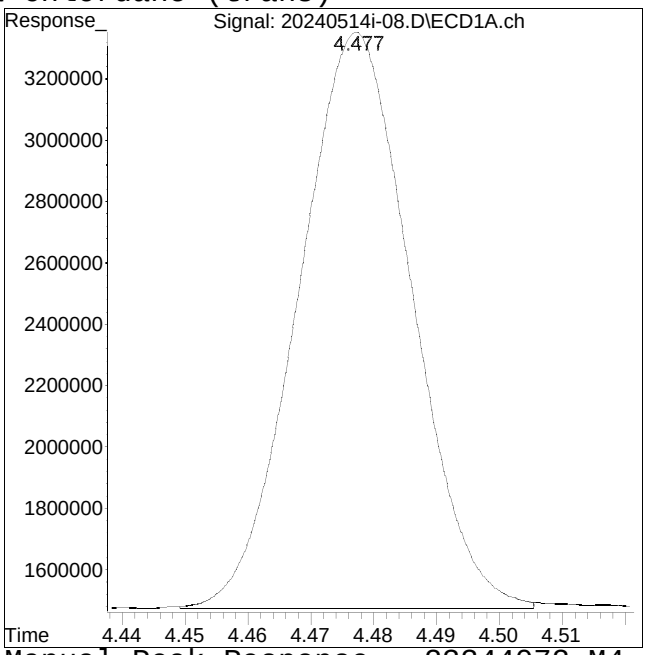
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-08.D
Date Inj'd : 5/14/2024 5:59 pm
Sample : il7pest,42e,,pp 11580 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:45 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 23478727



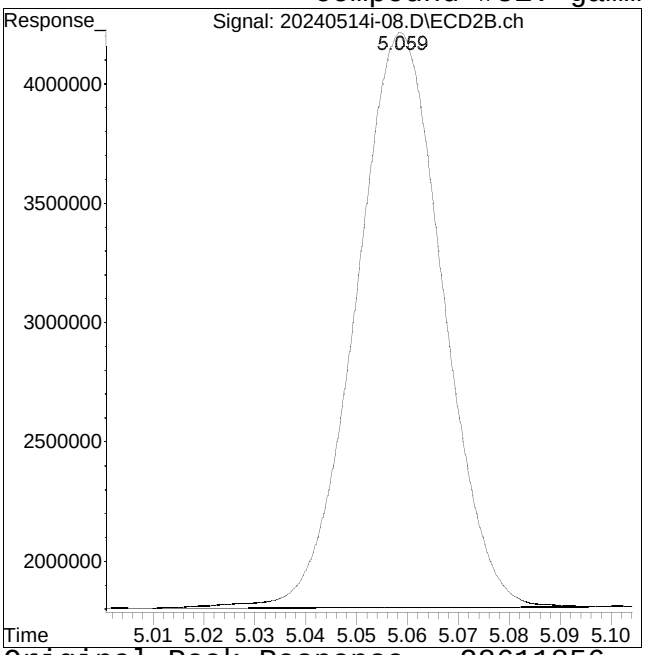
Manual Peak Response = 23344072 M4

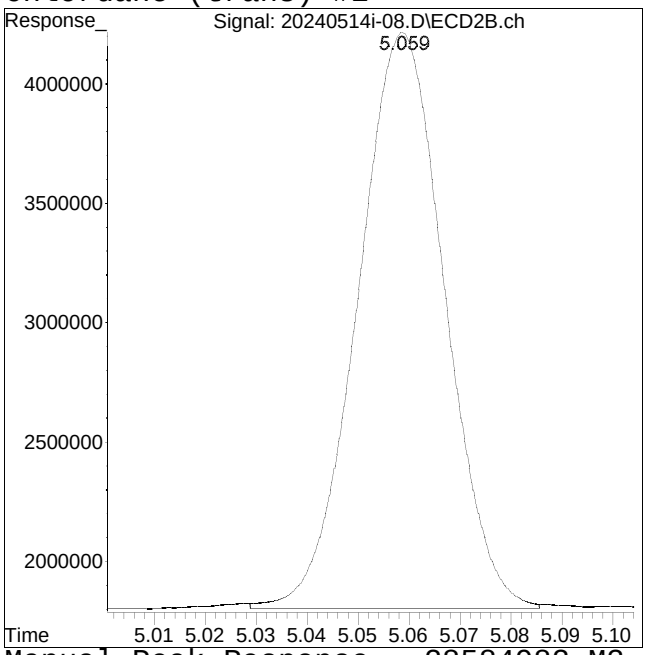
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #51: gamma-Chlordane (trans) #2



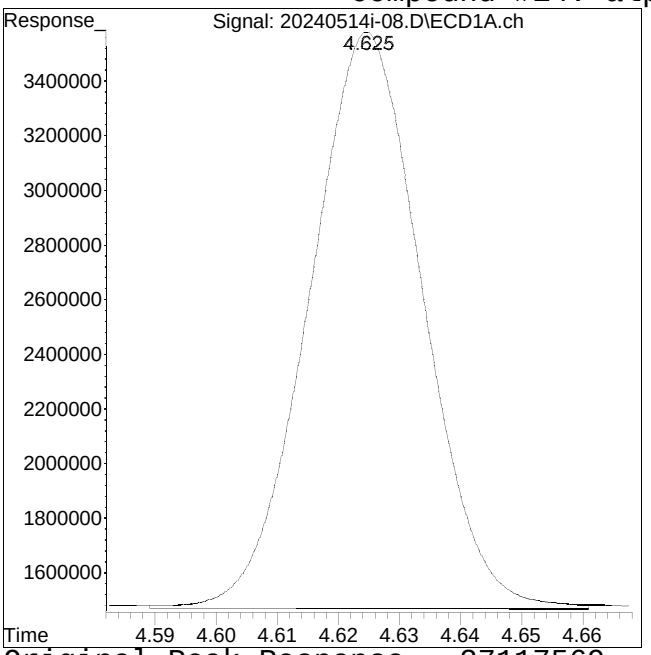


Original Peak Response = 28611856 Manual Peak Response = 28584982 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

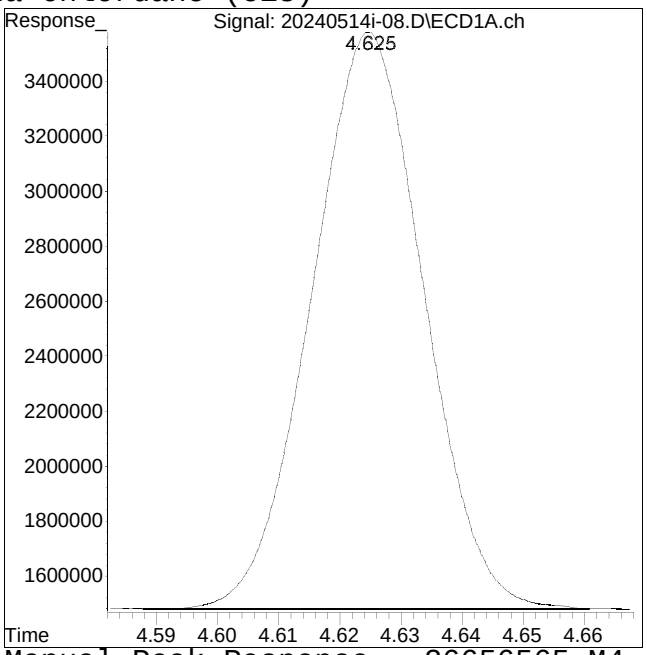
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 27117569



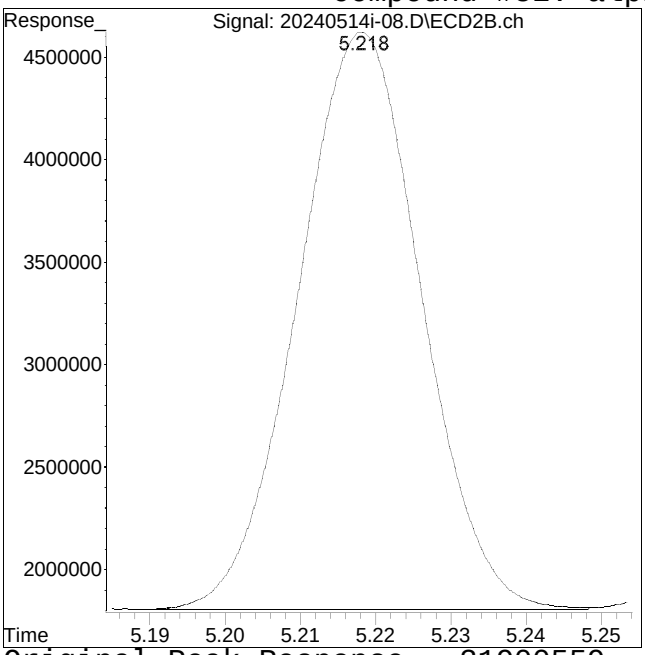
Manual Peak Response = 26656565 M4

M4 = Poor automated baseline construction.

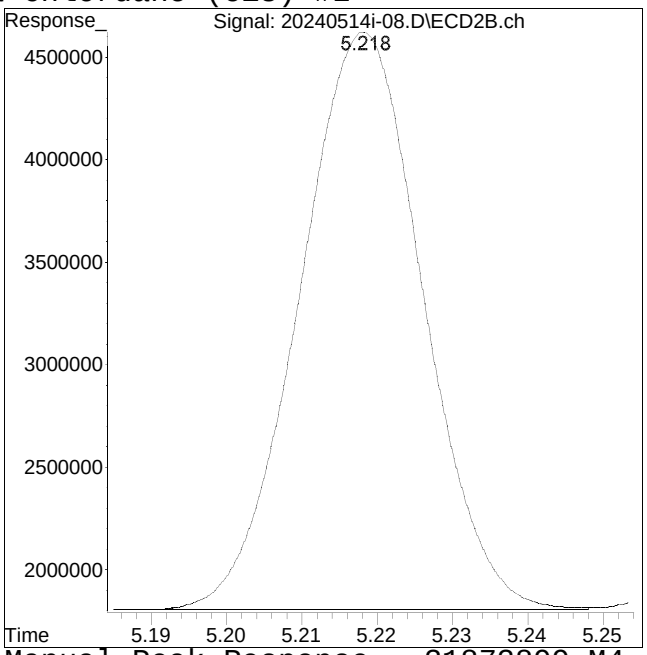
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 31900559



Manual Peak Response = 31873899 M4

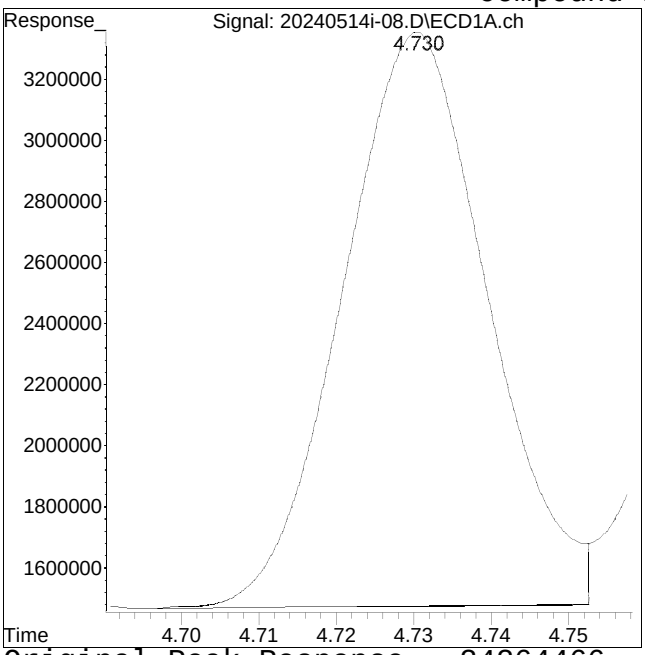
M4 = Poor automated baseline construction.

Manual Integration Report

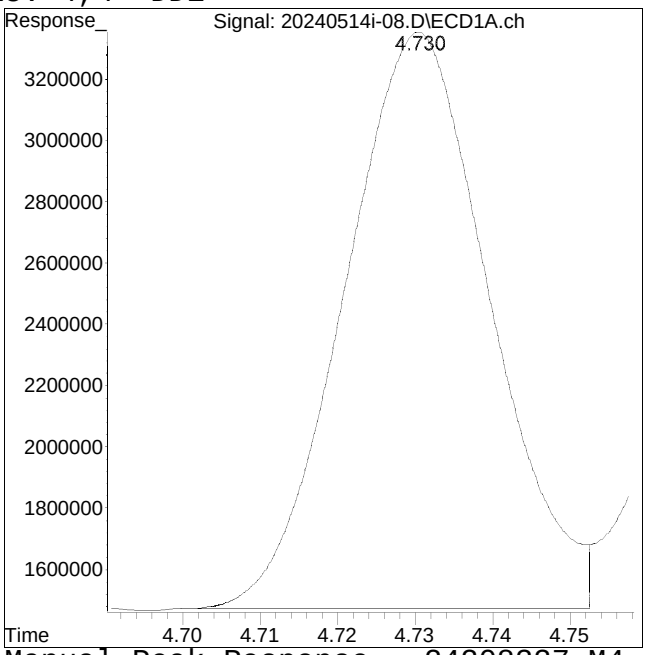
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-08.D
Date Inj'd : 5/14/2024 5:59 pm
Sample : il7pest,42e,,pp 11580 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:45 am

Compound #15: 4,4'-DDE



Original Peak Response = 24264466



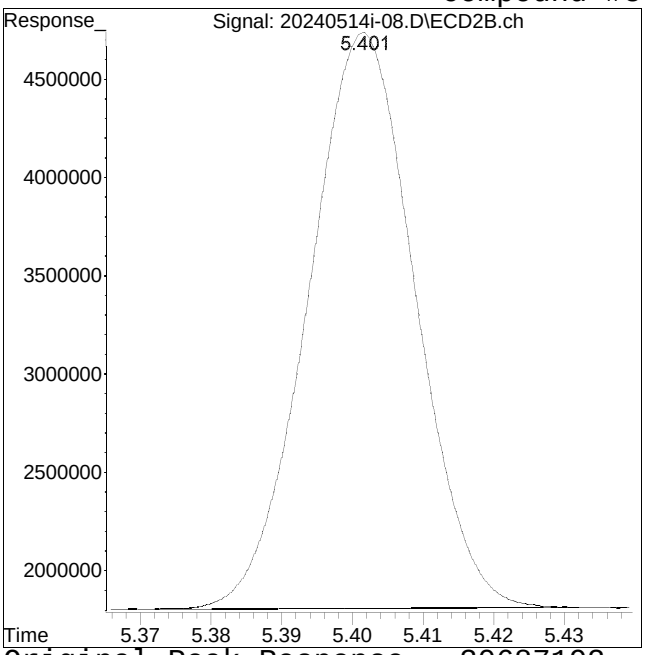
Manual Peak Response = 24208337 M4

M4 = Poor automated baseline construction.

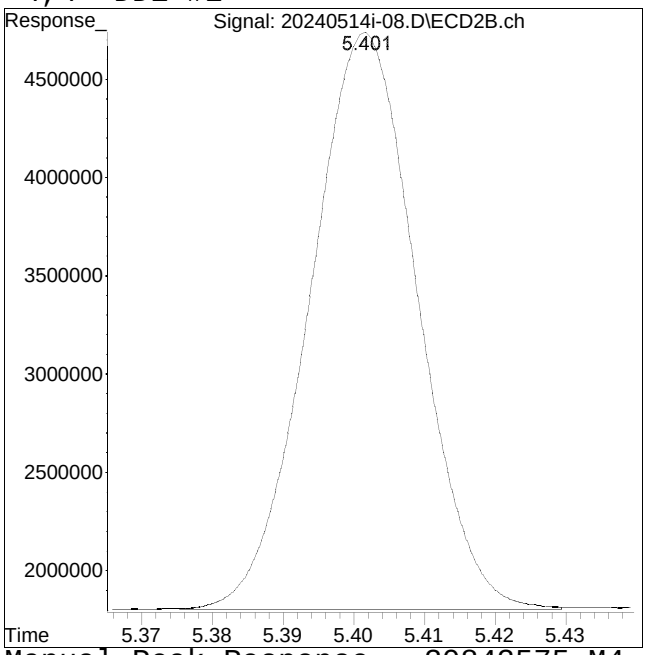
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 30687192



Manual Peak Response = 30843575 M4

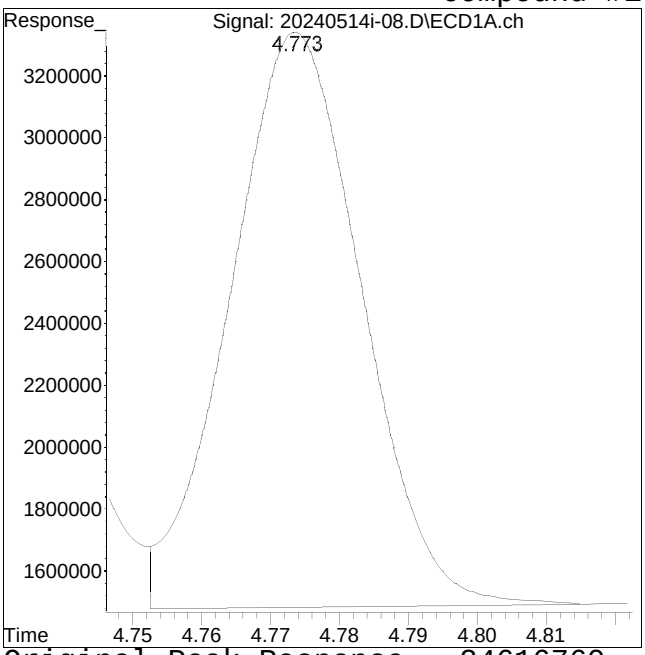
M4 = Poor automated baseline construction.

Manual Integration Report

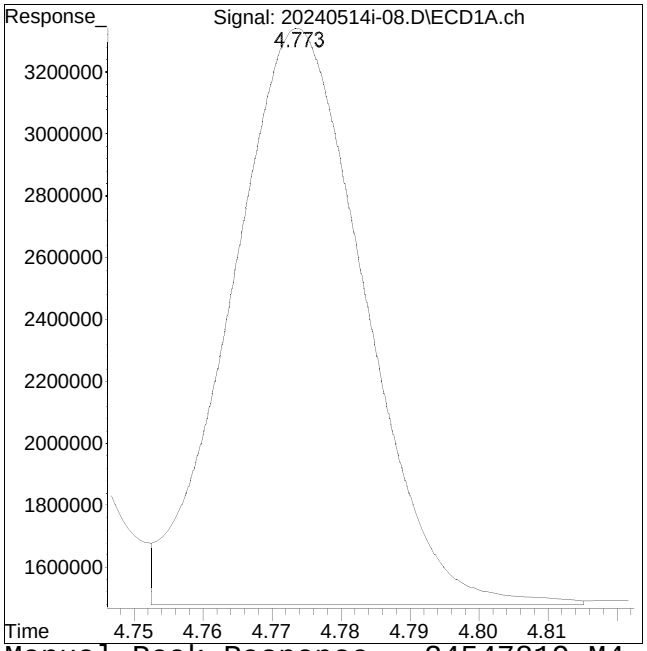
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-08.D
Date Inj'd : 5/14/2024 5:59 pm
Sample : il7pest,42e,,pp 11580 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:45 am

Compound #16: Endosulfan I



Original Peak Response = 24616760



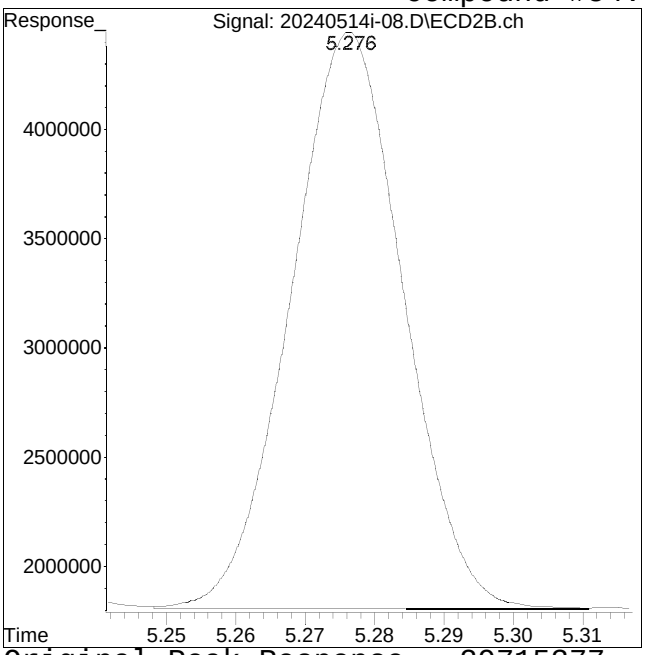
Manual Peak Response = 24547819 M4

M4 = Poor automated baseline construction.

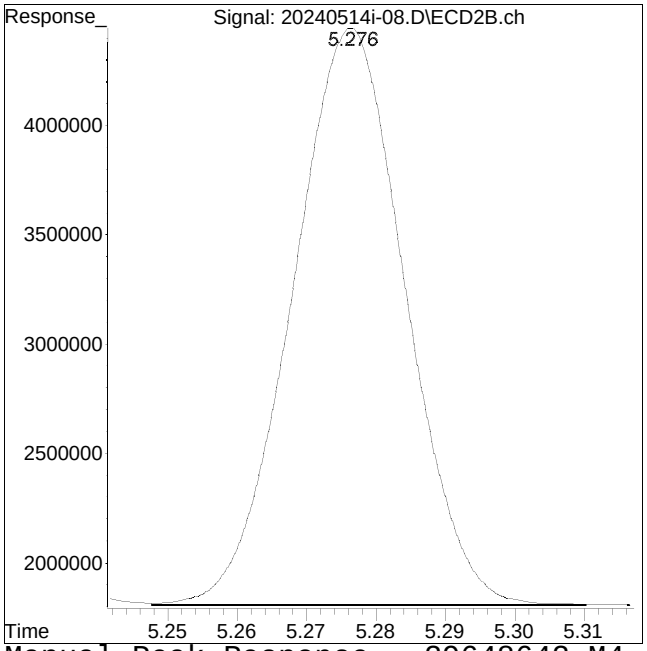
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-08.D
Date Inj'd : 5/14/2024 5:59 pm
Sample : il7pest,42e,,pp 11580 L0.0
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:45 am

Compound #54: Endosulfan I #2



Original Peak Response = 29715377



Manual Peak Response = 29648642 M4

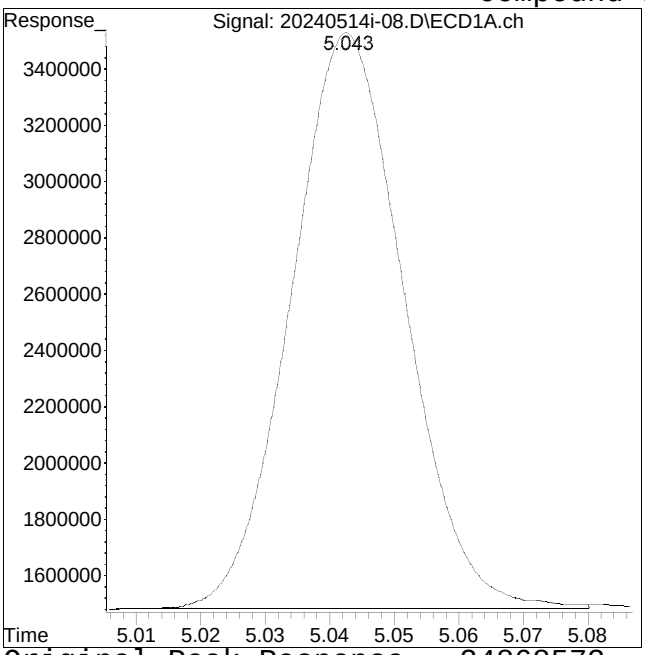
M4 = Poor automated baseline construction.

Manual Integration Report

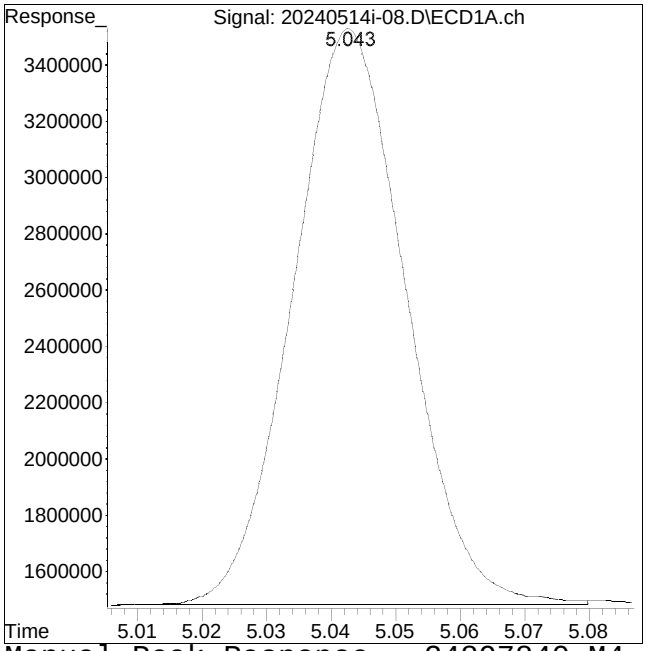
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-08.D
Date Inj'd : 5/14/2024 5:59 pm
Sample : il7pest,42e,,pp 11580 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:45 am

Compound #17: Dieldrin



Original Peak Response = 24868573



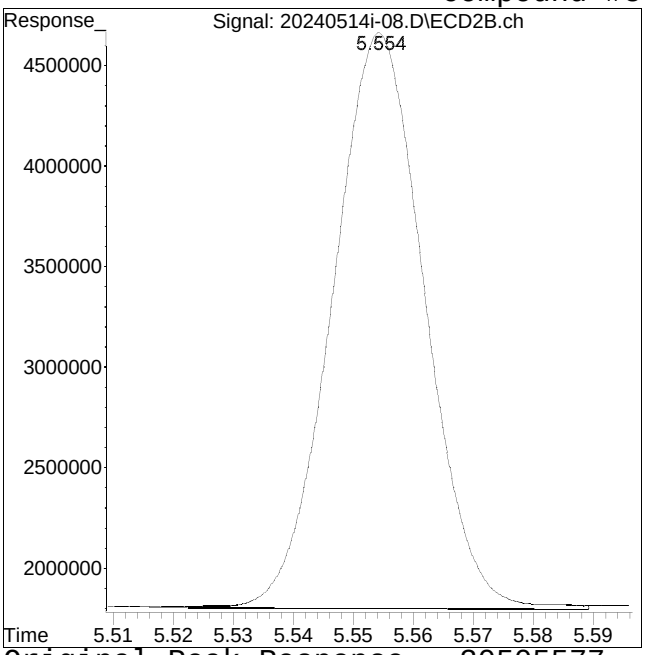
Manual Peak Response = 24897840 M4

M4 = Poor automated baseline construction.

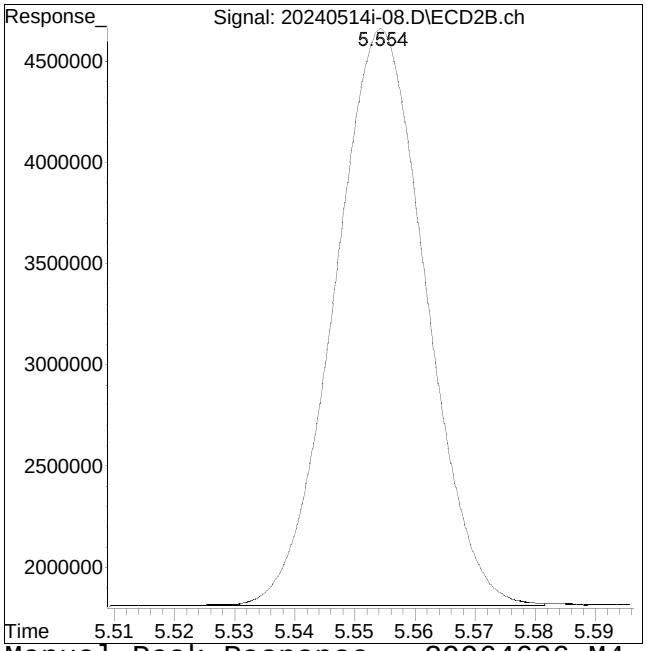
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #55: Dieldrin #2



Original Peak Response = 30505577



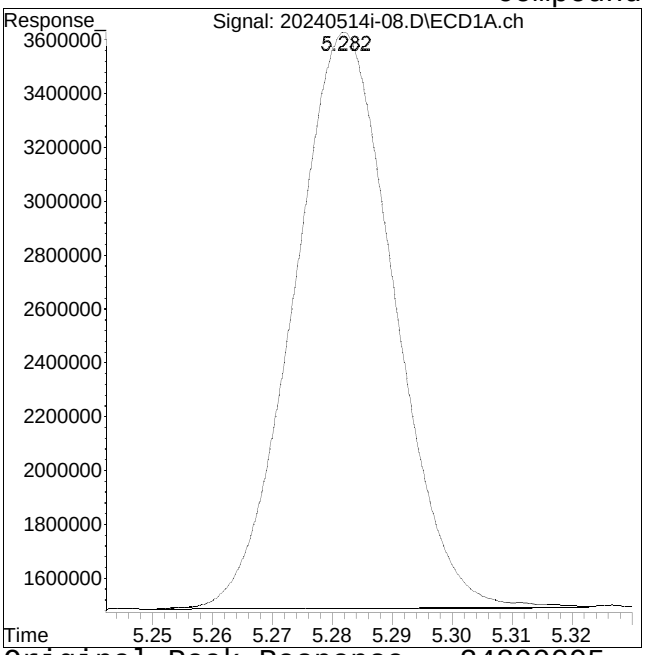
Manual Peak Response = 29964686 M4

M4 = Poor automated baseline construction.

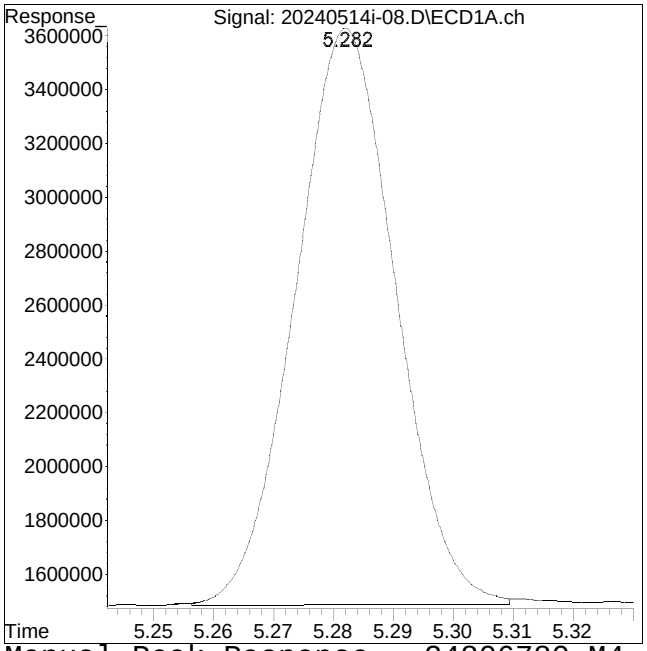
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #18: Endrin



Original Peak Response = 24890095



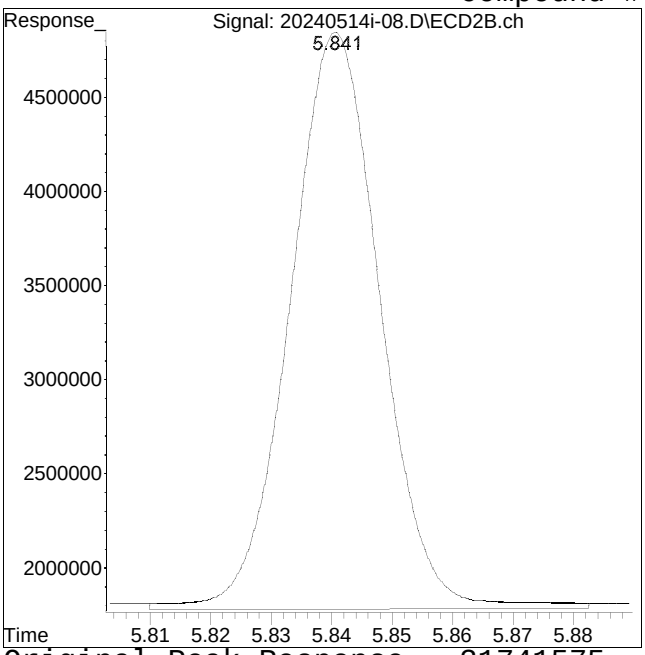
Manual Peak Response = 24806780 M4

M4 = Poor automated baseline construction.

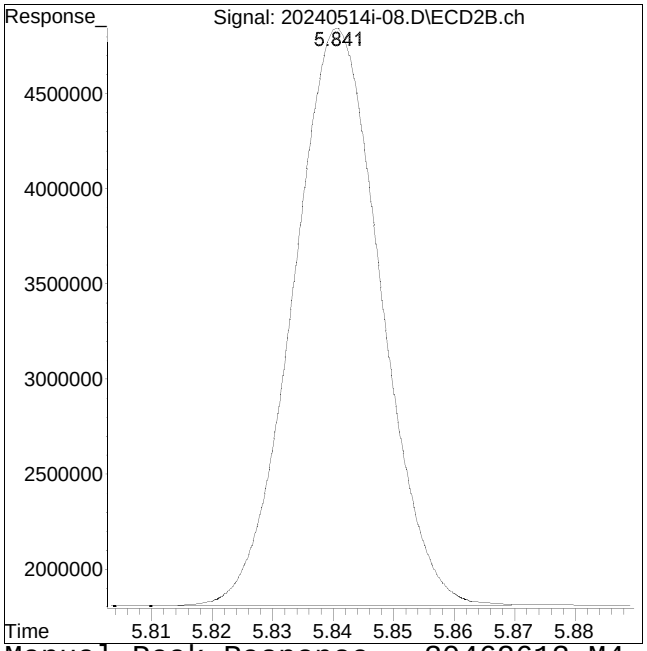
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #56: Endrin #2



Original Peak Response = 31741575



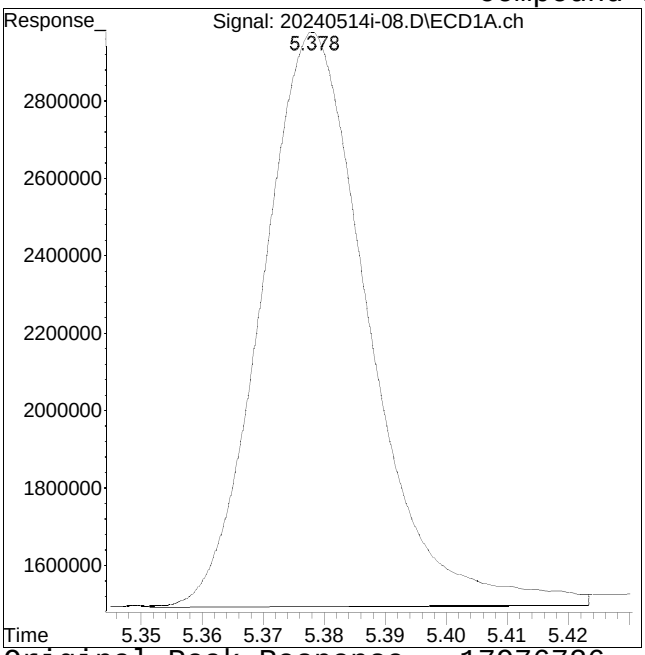
Manual Peak Response = 30462613 M4

M4 = Poor automated baseline construction.

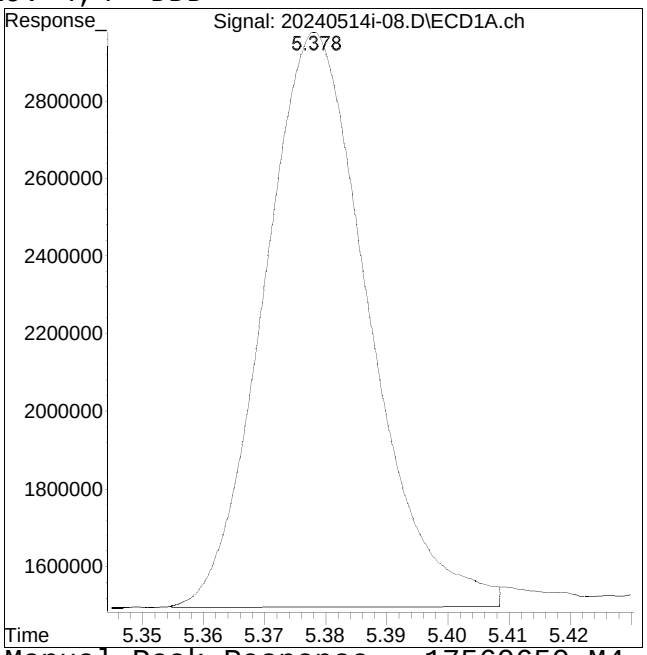
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #19: 4,4'-DDD



Original Peak Response = 17976726



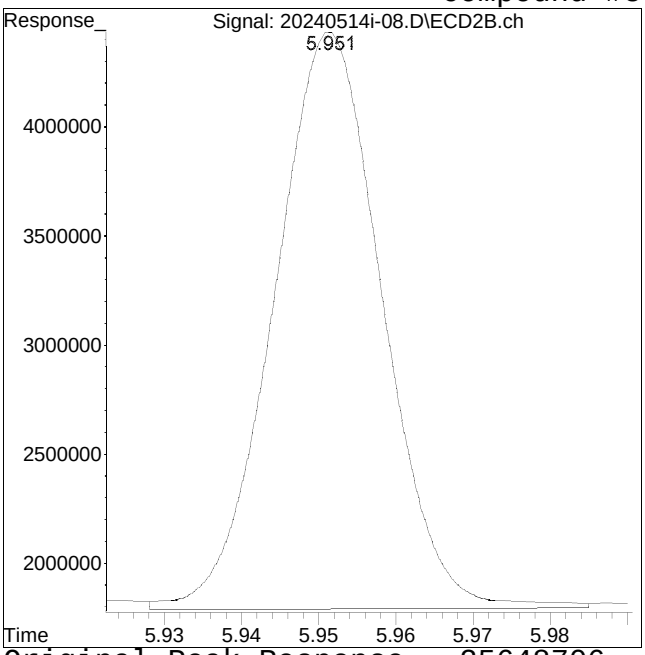
Manual Peak Response = 17560650 M4

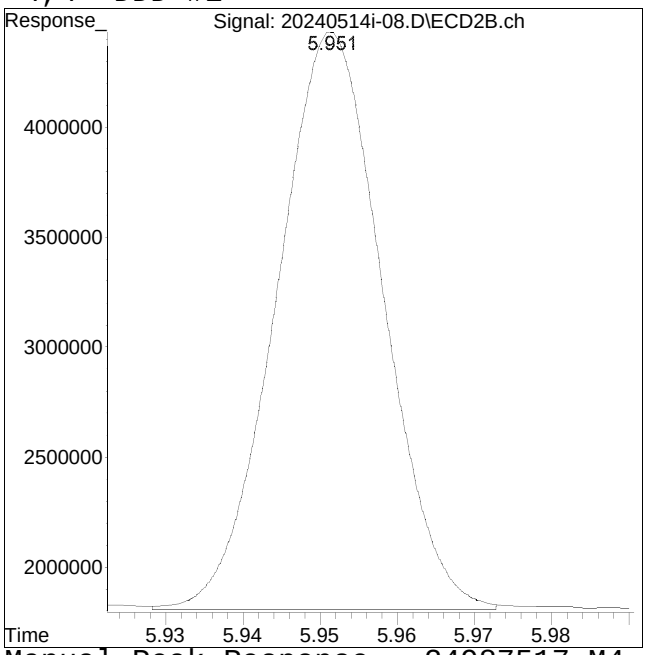
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #57: 4,4'-DDD #2



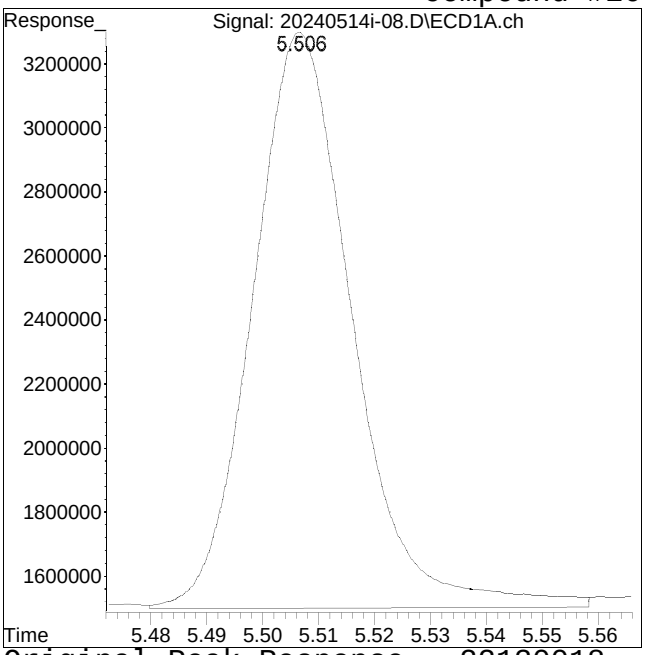


Original Peak Response = 25648706 Manual Peak Response = 24987517 M4
M4 = Poor automated baseline construction.

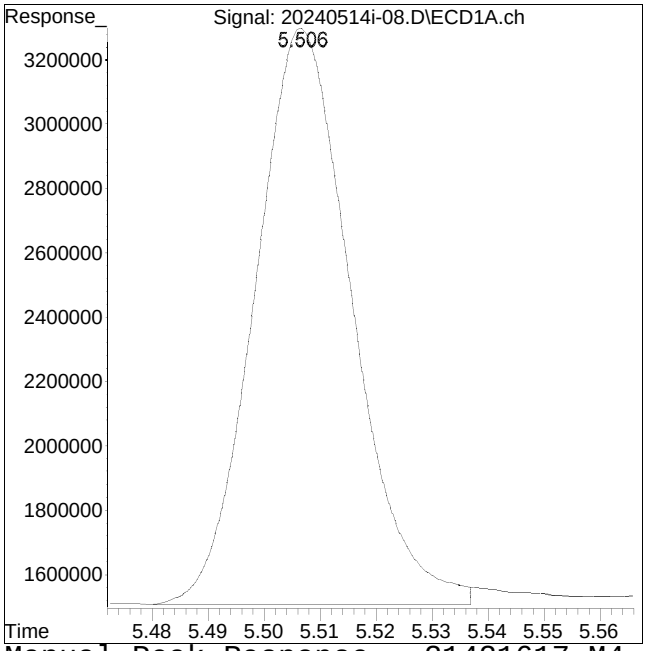
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #20: Endosulfan II



Original Peak Response = 22130018



Manual Peak Response = 21421617 M4

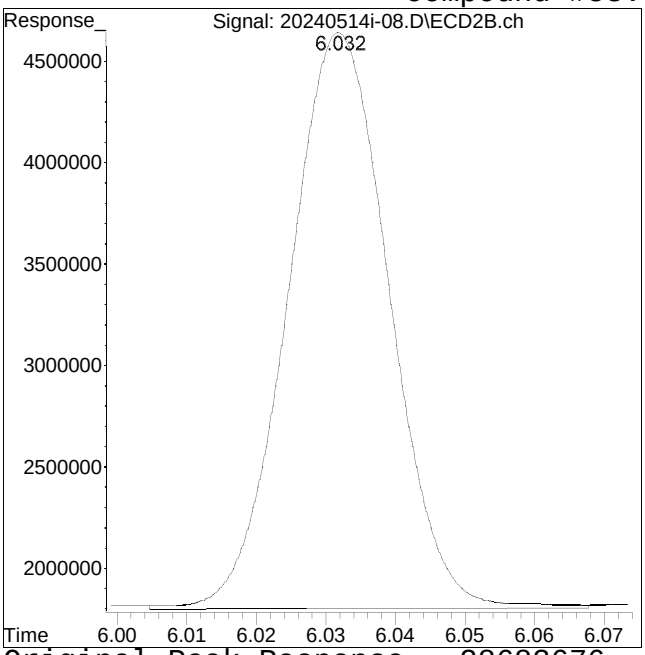
M4 = Poor automated baseline construction.

Manual Integration Report

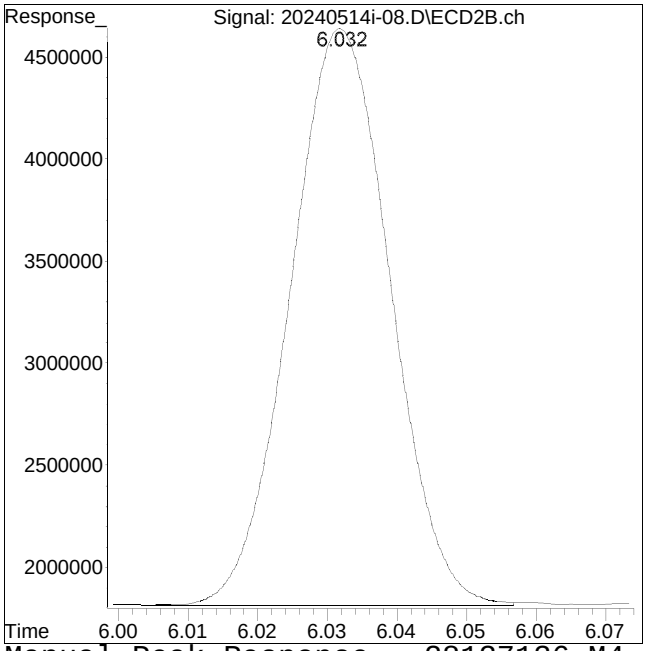
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-08.D
Date Inj'd : 5/14/2024 5:59 pm
Sample : il7pest,42e,,pp 11580 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:45 am

Compound #58: Endosulfan II #2



Original Peak Response = 28683676



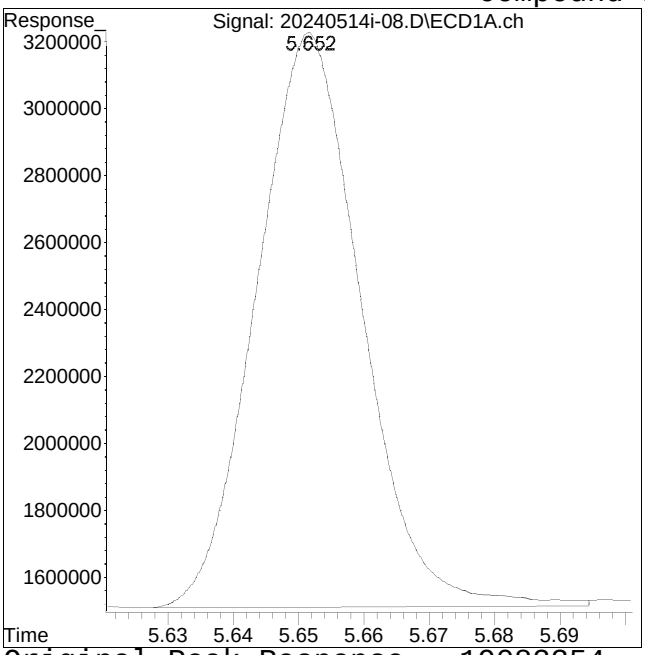
Manual Peak Response = 28137136 M4

M4 = Poor automated baseline construction.

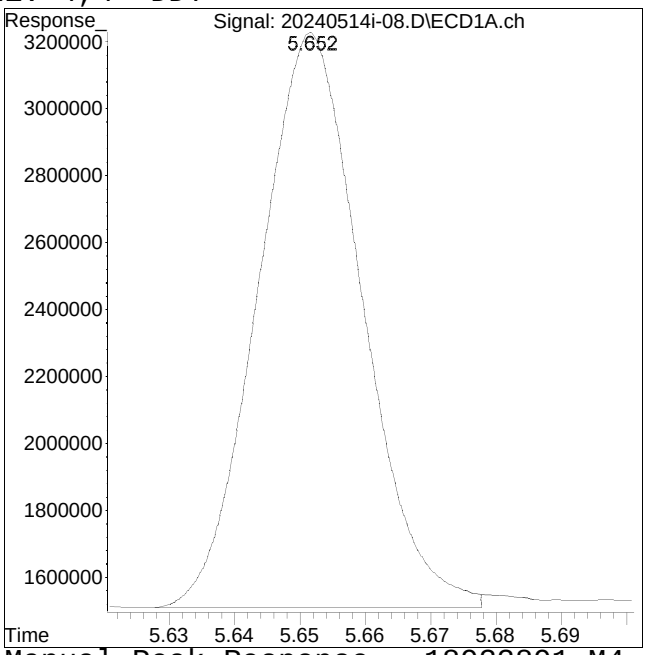
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #21: 4,4'-DDT



Original Peak Response = 19082354



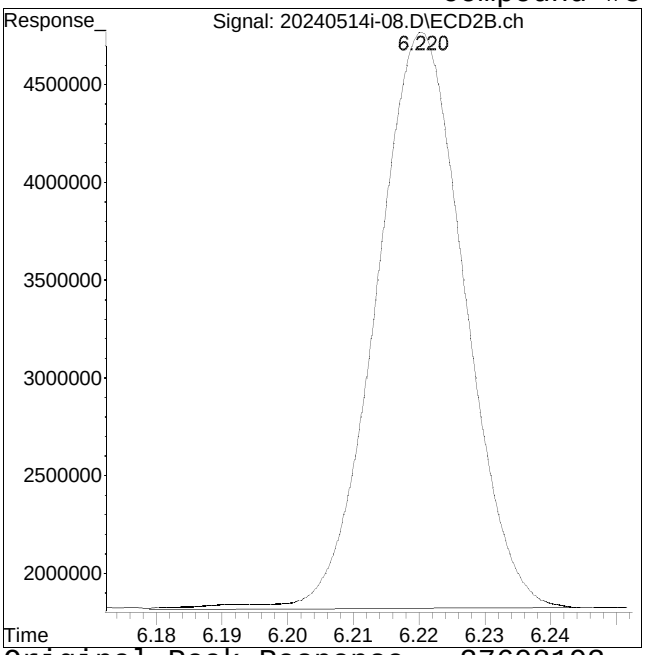
Manual Peak Response = 18933891 M4

M4 = Poor automated baseline construction.

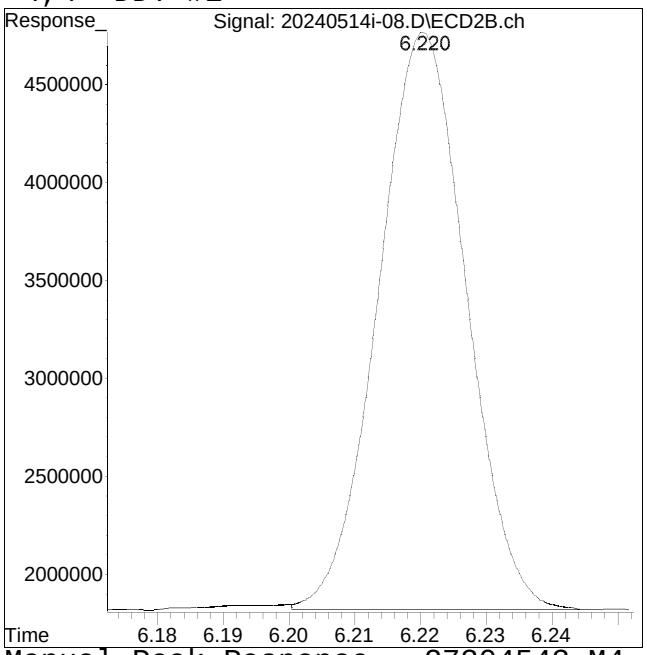
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #59: 4,4'-DDT #2



Original Peak Response = 27608193



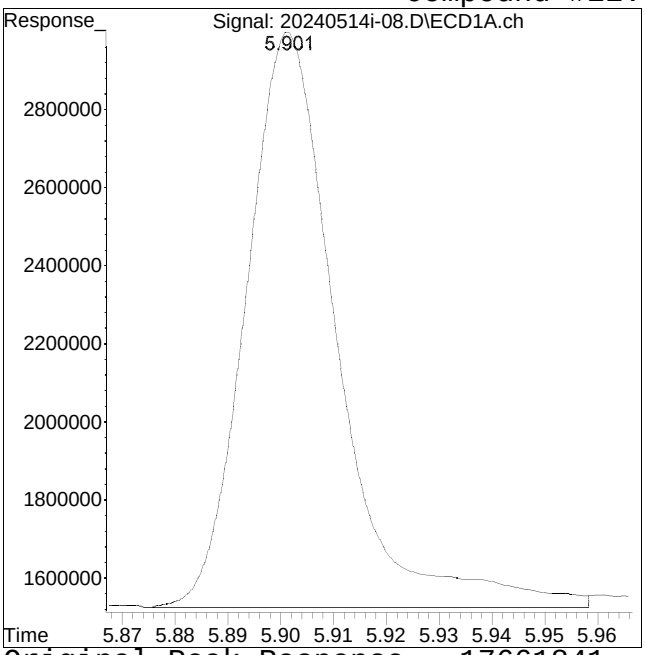
Manual Peak Response = 27304543 M4

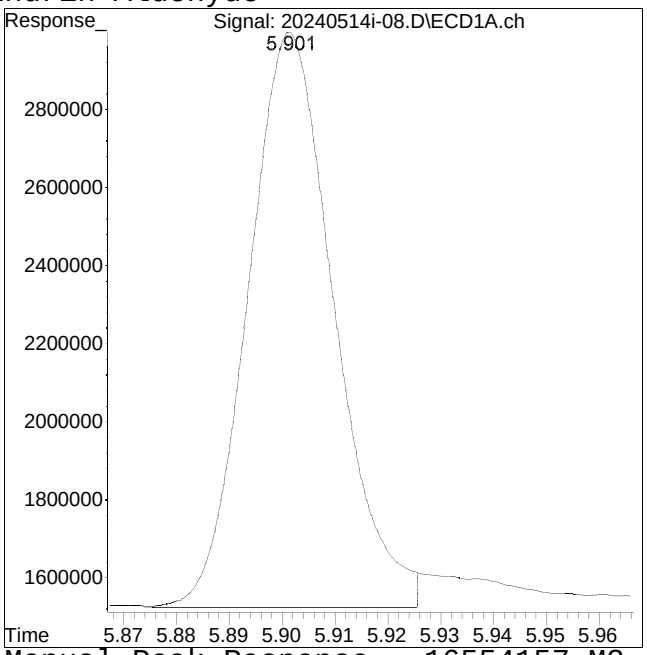
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #22: Endrin Aldehyde



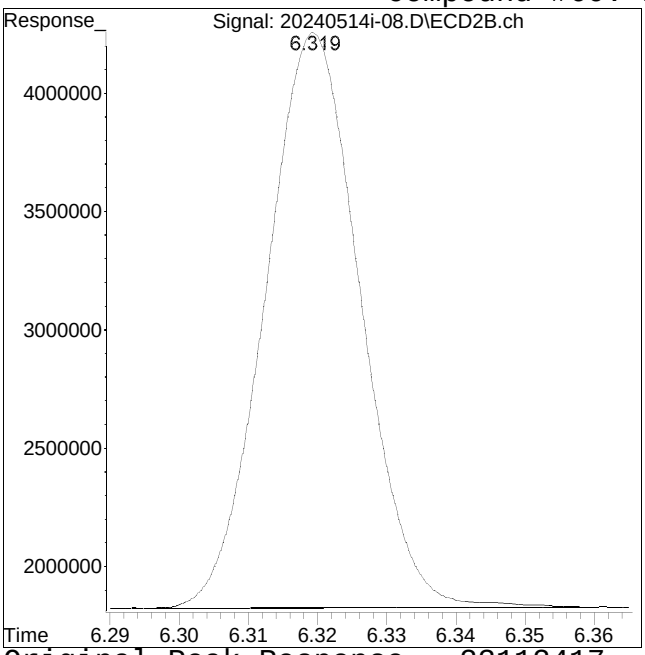


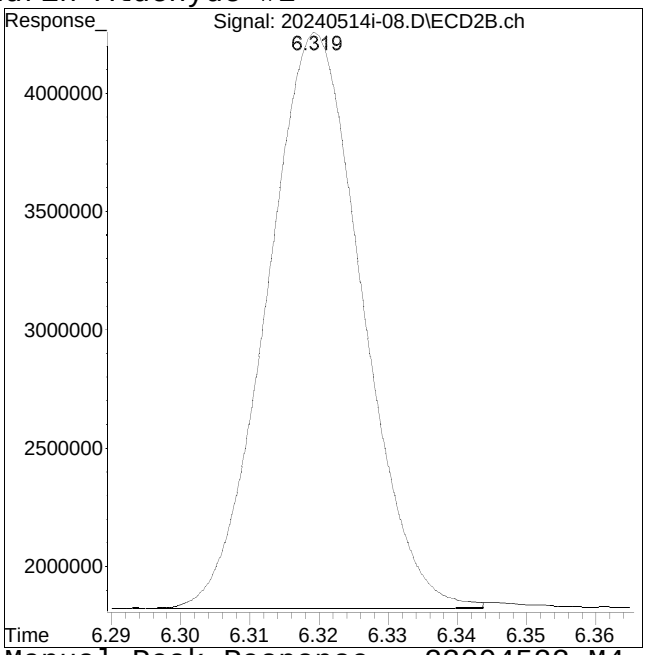
Original Peak Response = 17661841 Manual Peak Response = 16554157 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-08.D
Date Inj'd : 5/14/2024 5:59 pm
Sample : il7pest,42e,,pp 11580 L0.0
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:45 am

Compound #60: Endrin Aldehyde #2



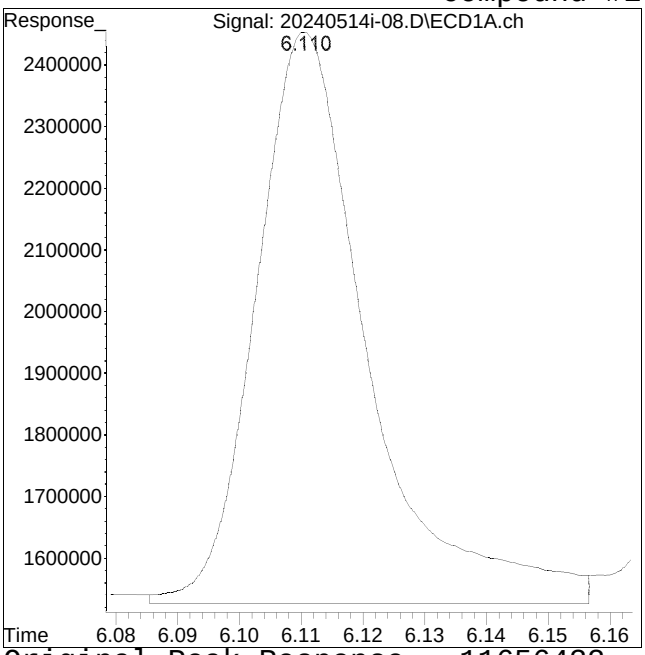


Original Peak Response = 23112417 Manual Peak Response = 23094522 M4
M4 = Poor automated baseline construction.

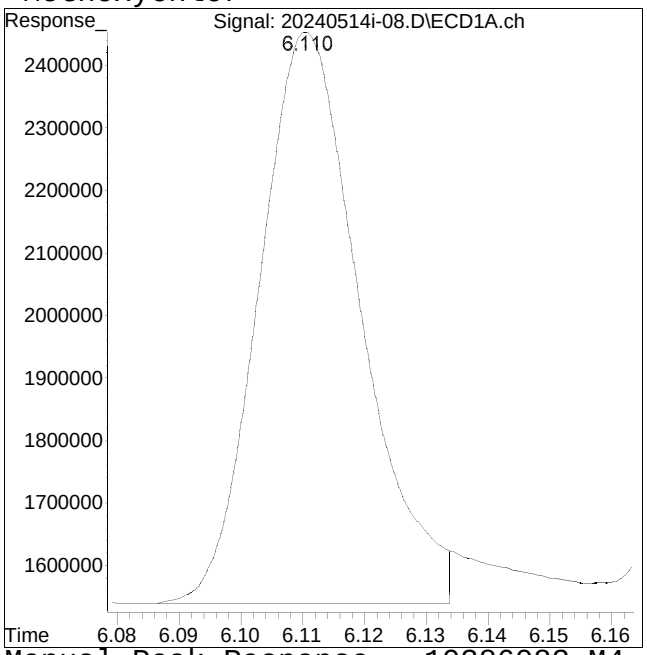
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #23: Methoxychlor



Original Peak Response = 11656432



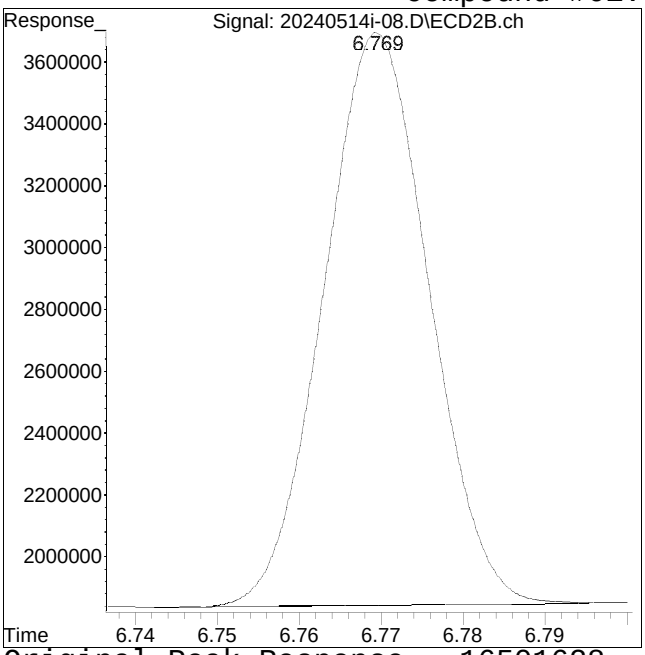
Manual Peak Response = 10386083 M4

M4 = Poor automated baseline construction.

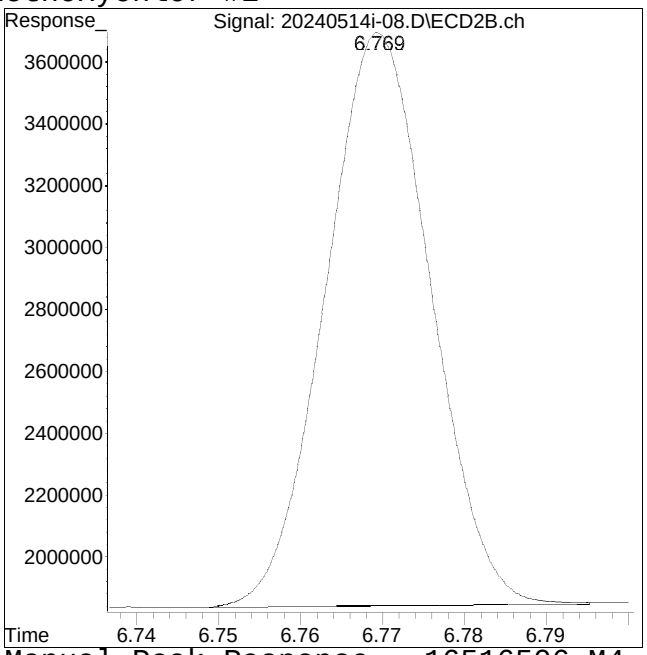
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #61: Methoxychlor #2



Original Peak Response = 16501628



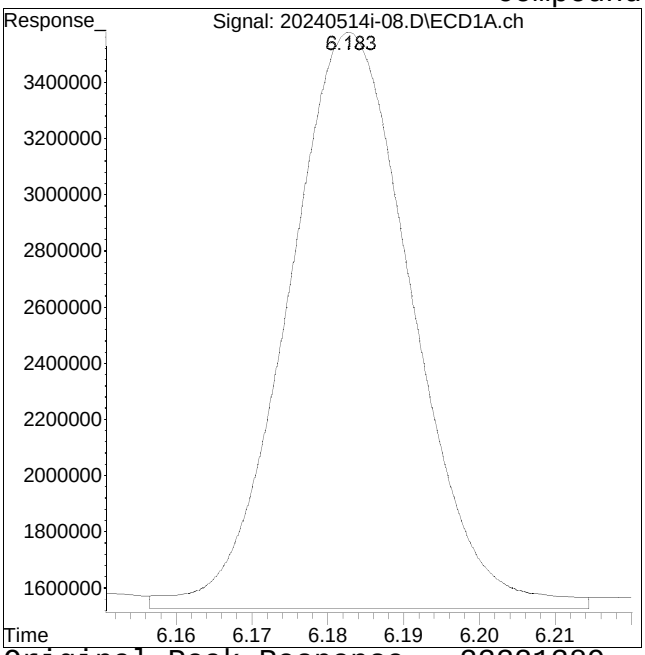
Manual Peak Response = 16516506 M4

M4 = Poor automated baseline construction.

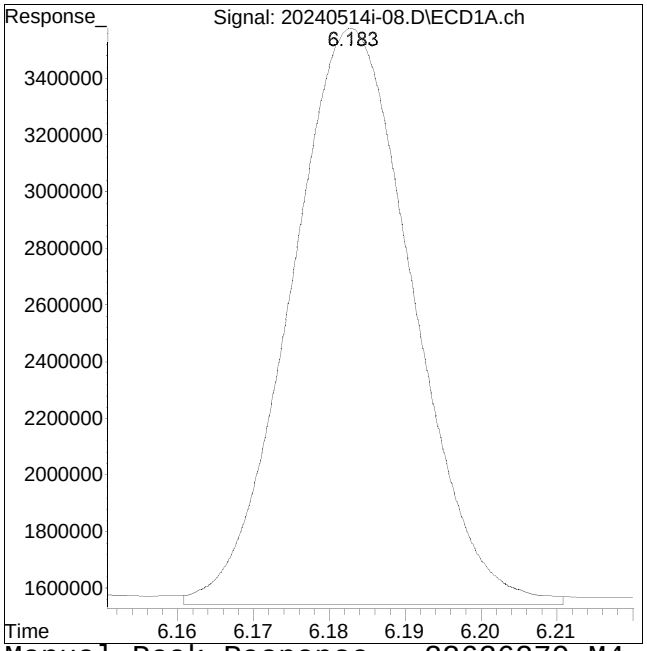
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #24: Mirex



Original Peak Response = 23321389



Manual Peak Response = 22636279 M4

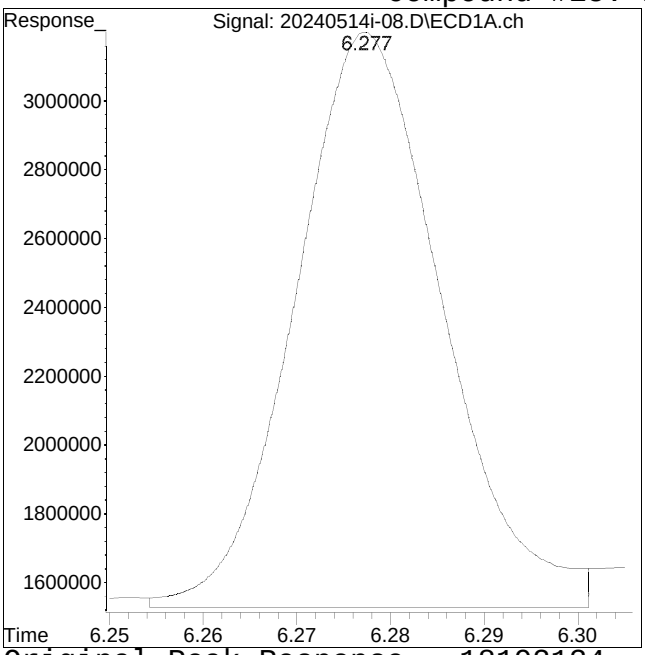
M4 = Poor automated baseline construction.

Manual Integration Report

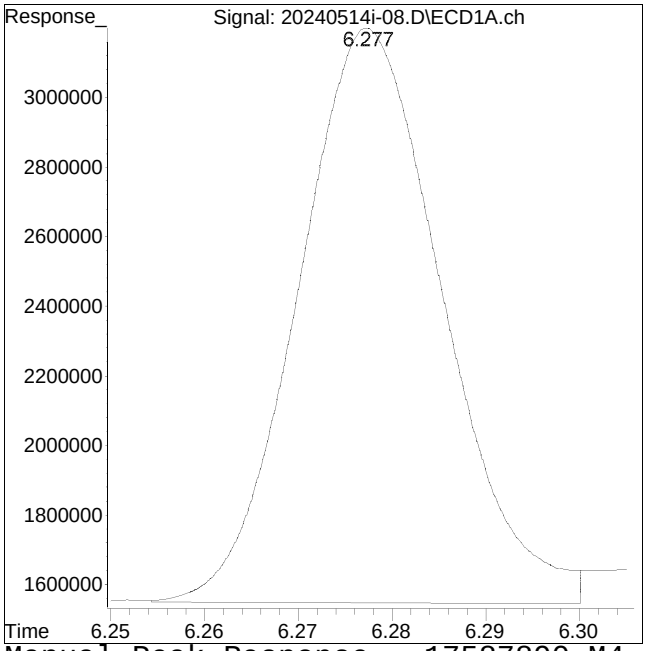
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-08.D
Date Inj'd : 5/14/2024 5:59 pm
Sample : il7pest,42e,,pp 11580 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:45 am

Compound #25: Endosulfan Sulfate



Original Peak Response = 18192134



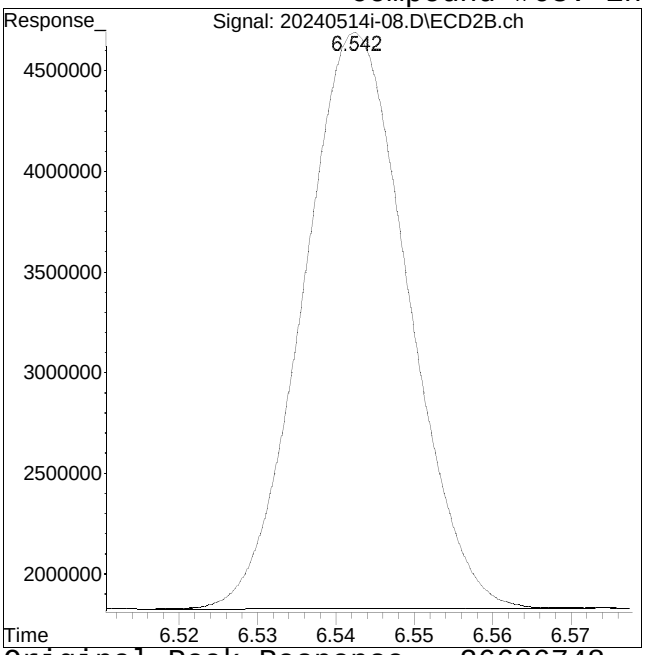
Manual Peak Response = 17587890 M4

M4 = Poor automated baseline construction.

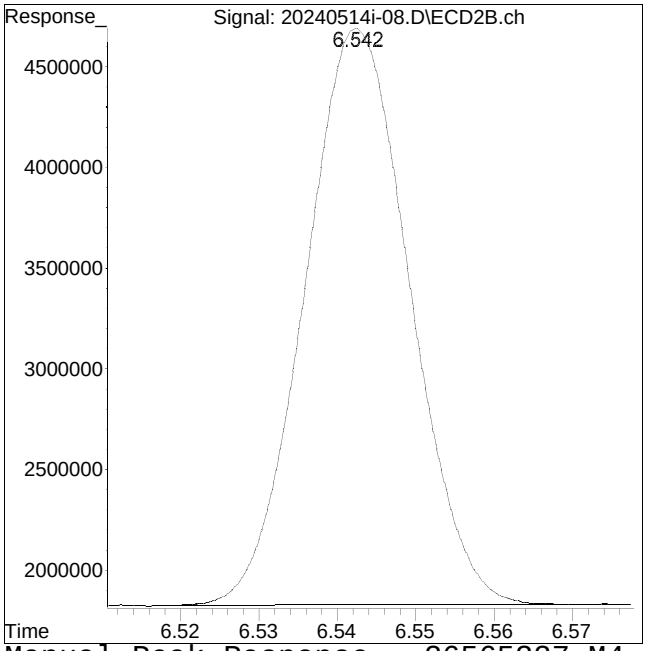
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 26636748



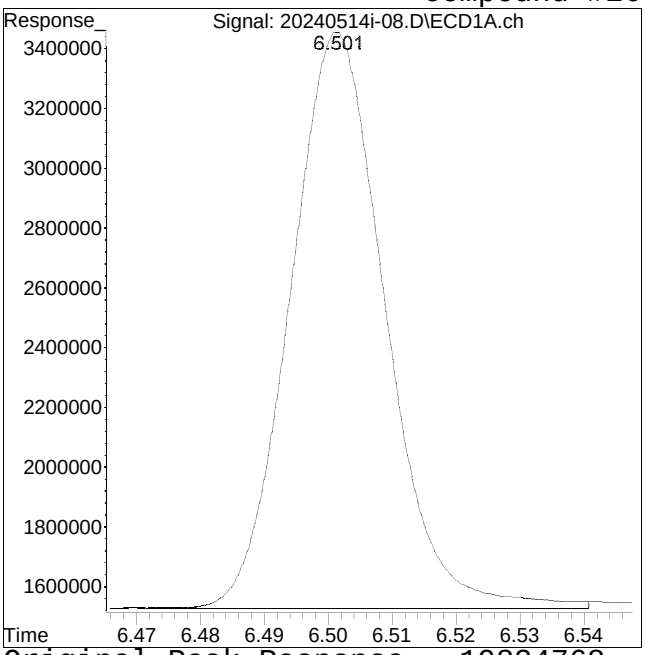
Manual Peak Response = 26565327 M4

M4 = Poor automated baseline construction.

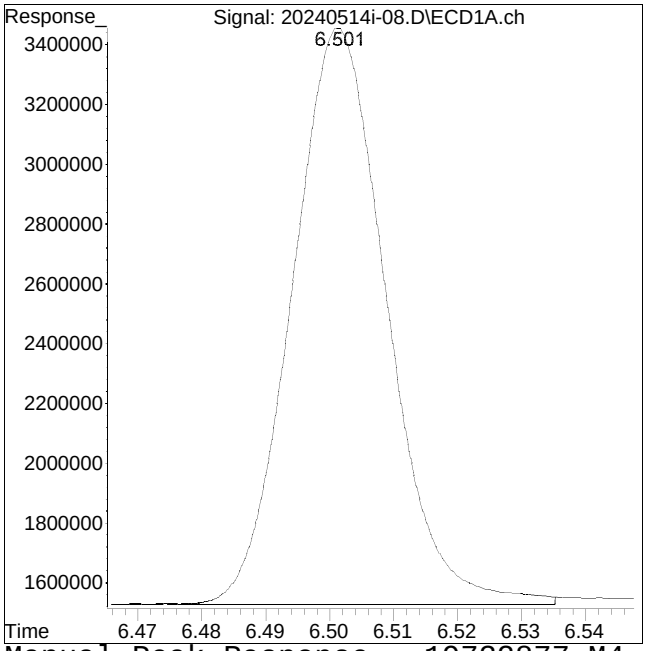
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #26: Endrin Ketone



Original Peak Response = 19834768



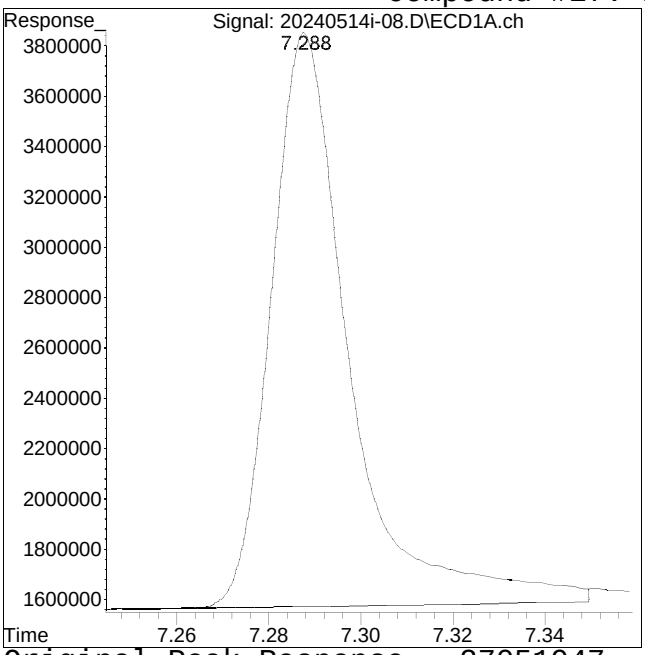
Manual Peak Response = 19732877 M4

M4 = Poor automated baseline construction.

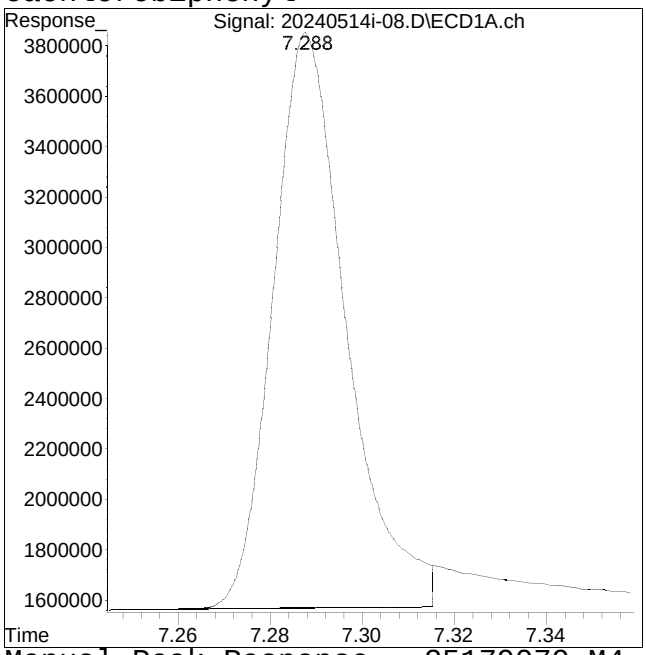
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 27051947



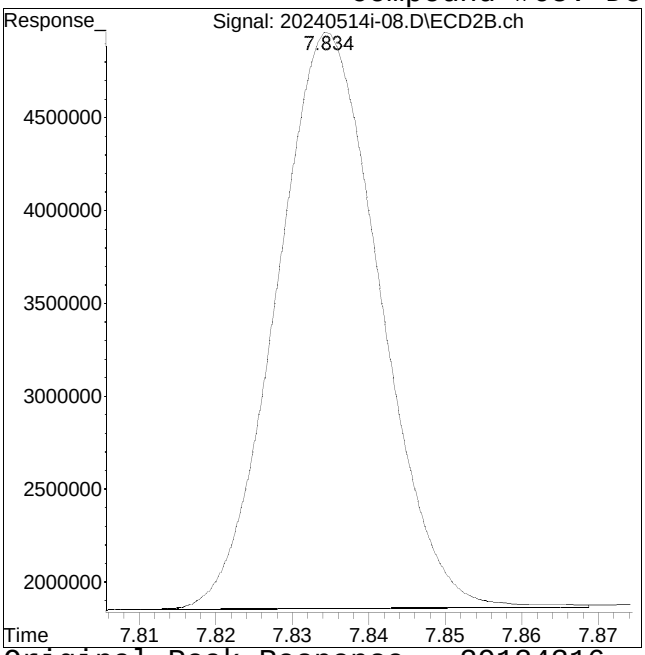
Manual Peak Response = 25179079 M4

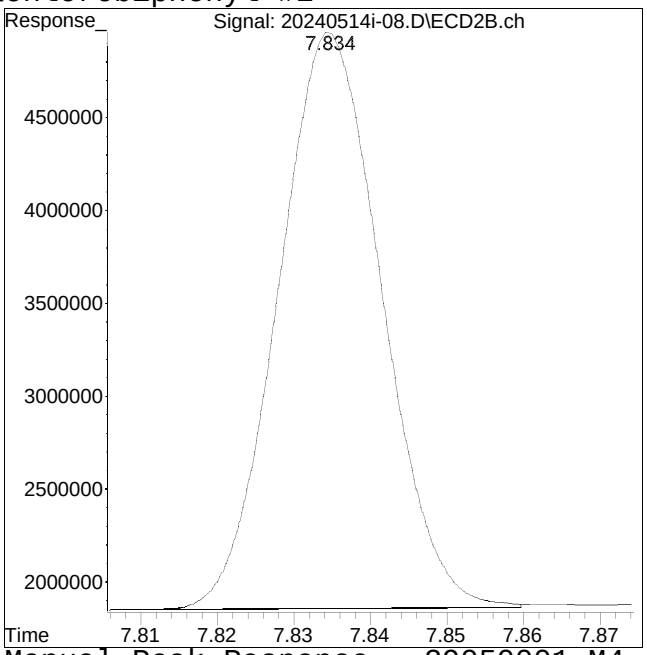
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-08.D Operator : pest20:peg
Date Inj'd : 5/14/2024 5:59 pm Instrument : PEST 20
Sample : il7pest,42e,,pp 11580 L0.0Quant Date : 5/16/2024 10:45 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 29124316 Manual Peak Response = 29050001 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-09.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 06:12 pm
Operator : pest20:peg
Sample : il8pest,42e,,pp 11579 L0.05 (Sig #1); il8pest,42e,,pp 11566 L0.05 (Sig #2)
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 15 13:12:03 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Wed May 15 13:11:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.933	1.972	51902789	69032569	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.406	2.576	107.0E6	140.7E6	50.000	50.000M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		100.00%	100.00%
27) s	Decachlorobi	7.289	7.837	105.6E6	125.2E6	50.000M4	50.000M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		100.00%	100.00%
	Target Compounds						
3)	Hexachlorobe	2.675	2.954	111.3E6	145.5E6	50.000	50.000
4)	alpha-BHC	2.799	3.068	135.5E6	182.2E6	50.000M4	50.000
5)	gamma-BHC (l	3.043	3.391	124.5E6	167.5E6	50.000	50.000M4
6)	beta-BHC	3.112	3.466	58918529	79483965	50.000M4	50.000M4
7)	delta-BHC	3.263	3.761	114.4E6	166.5E6	50.000	50.000M4
8)	Heptachlor	3.451	3.831	120.8E6	157.0E6	50.000	50.000M4
9)	Aldrin	3.728	4.179	123.0E6	153.5E6	50.000M4	50.000M4
10)	Alachlor	3.870	4.057	17682945	23545292	50.000M4	50.000
11)	Chlorpyrifos	3.973	4.437	53405814	77703876	50.000M4	50.000
12)	Heptachlor E	4.340	4.841	116.0E6	148.8E6	50.000	50.000

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-09.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 06:12 pm
Operator : pest20:peg
Sample : il8pest,42e,,pp 11579 L0.05 (Sig #1); il8pest,42e,,pp 11566 L0.05 (Sig #2)
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 15 13:12:03 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Wed May 15 13:11:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13)		gamma-Chlord	4.477	5.058	105.5E6	131.6E6	50.000M4	50.000M4
14)		alpha-Chlord	4.625	5.218	120.2E6	147.1E6	50.000M4	50.000M4
15)		4,4'-DDE	4.730	5.402	114.9E6	149.6E6	50.000	50.000M4
16)		Endosulfan I	4.774	5.276	112.8E6	137.9E6	50.000M4	50.000M4
17)		Dieldrin	5.043	5.555	115.8E6	144.6E6	50.000M4	50.000M4
18)		Endrin	5.282	5.841	116.3E6	147.2E6	50.000M4	50.000M4
19)		4,4'-DDD	5.378	5.951	87510273	121.3E6	50.000M4	50.000M4
20)		Endosulfan I	5.506	6.032	99100416	130.9E6	50.000M4	50.000M4
21)		4,4'-DDT	5.651	6.220	91194328	130.8E6	50.000M4	50.000M3
22)		Endrin Aldeh	5.901	6.319	79191156	109.7E6	50.000M4	50.000M4
23)		Methoxychlor	6.111	6.770	49049013	73360491	50.000	50.000M4
24)		Mirex	6.183	6.922	94101038	111.6E6	50.000M4	50.000
25)		Endosulfan S	6.278	6.543	83946602	122.2E6	50.690M4	50.000M4
26)		Endrin Keton	6.502	6.954	94522286	144.3E6	50.000M4	50.317M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-09.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 06:12 pm
Operator : pest20:peg
Sample : il8pest,42e,,pp 11579 L0.05 (Sig #1); il8pest,42e,,pp 11566 L0.05 (Sig #2)
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 15 13:12:03 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Wed May 15 13:11:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34)	l2 toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2 toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2 toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2 toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

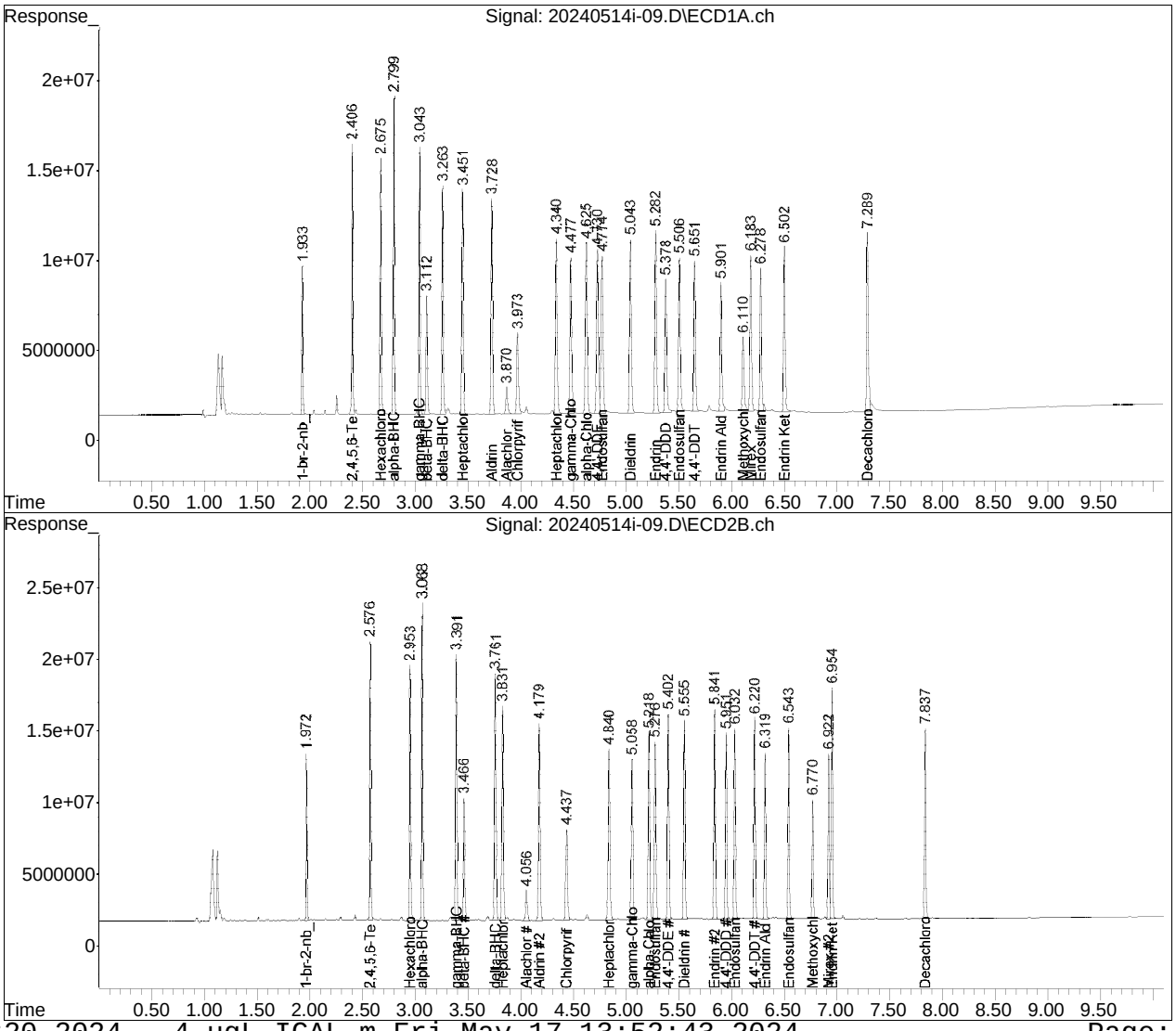
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-09.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 06:12 pm
Operator : pest20:peg
Sample : il8pest,42e,,pp 11579 L0.05 (Sig #1); il8pest,42e,,pp 11566 L0.05
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 15 13:12:03 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Wed May 15 13:11:48 2024
Response via : Initial Calibration
Integrator: ChemStation

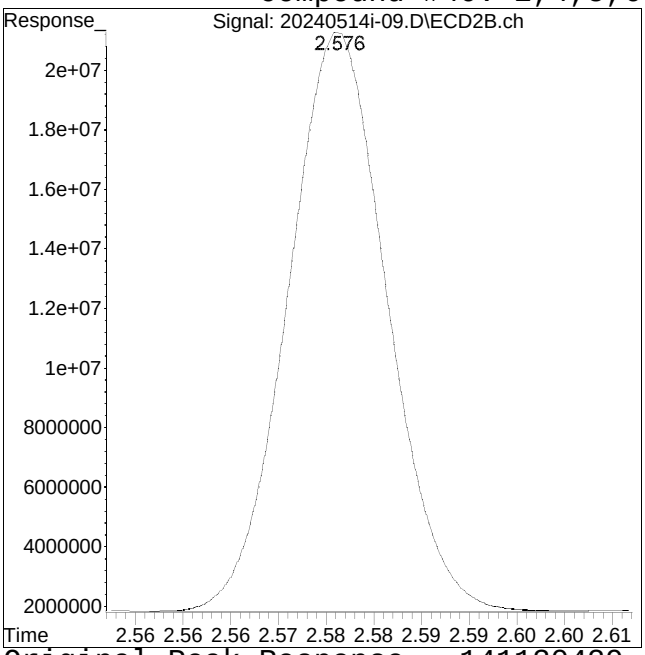
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

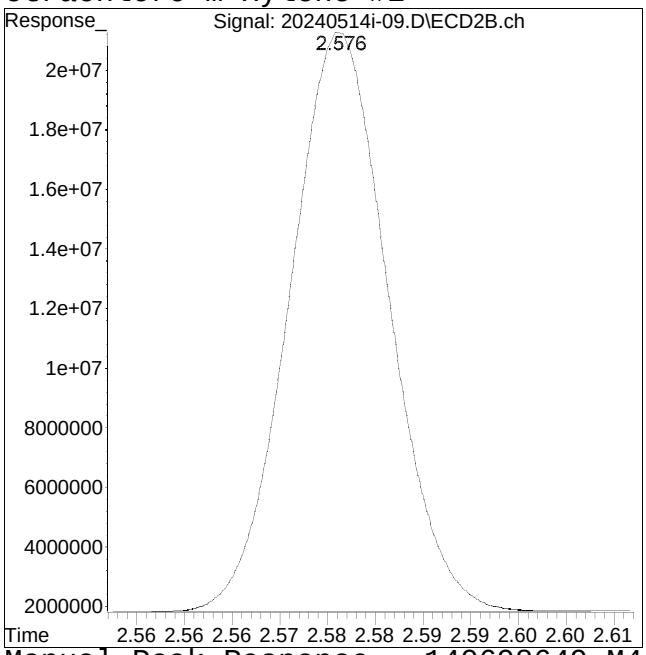


Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-09.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:12 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11579 L0.0Quant Date : 5/15/2024 1:12 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



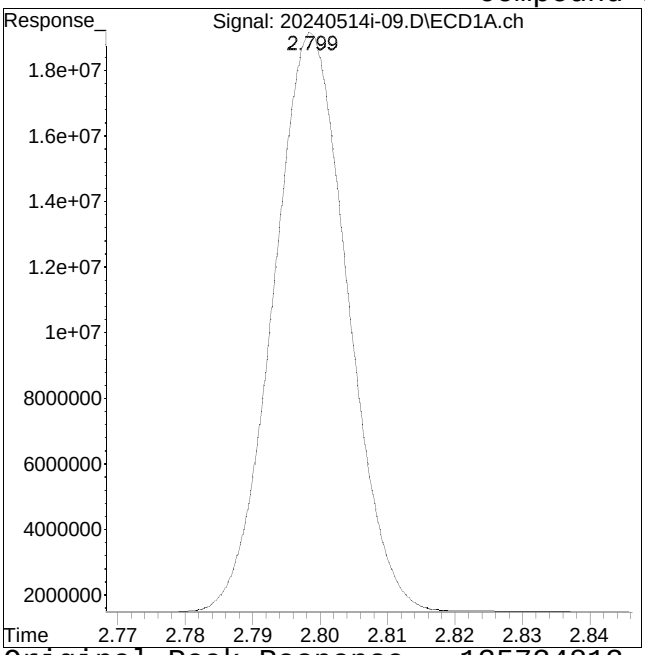


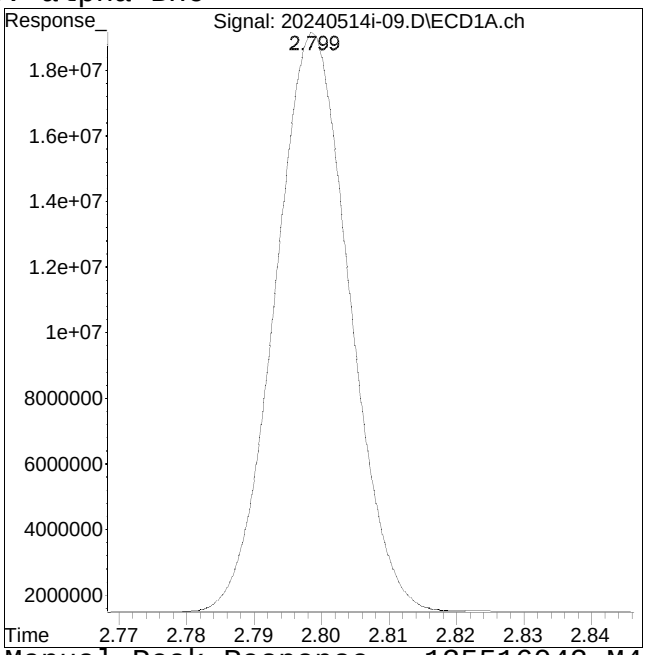
Original Peak Response = 141130429 Manual Peak Response = 140698649 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-09.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:12 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11579 L0.0Quant Date : 5/15/2024 1:12 pm

Compound #4: alpha-BHC





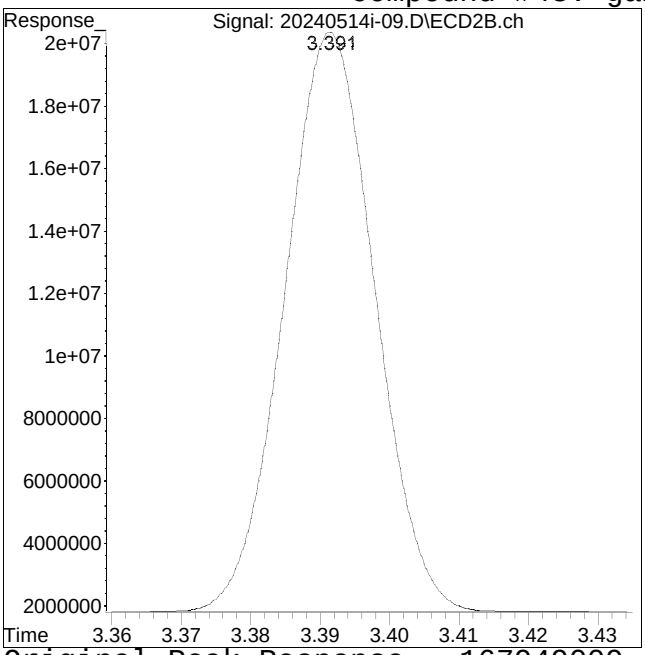
Original Peak Response = 135734813 Manual Peak Response = 135516042 M4
M4 = Poor automated baseline construction.

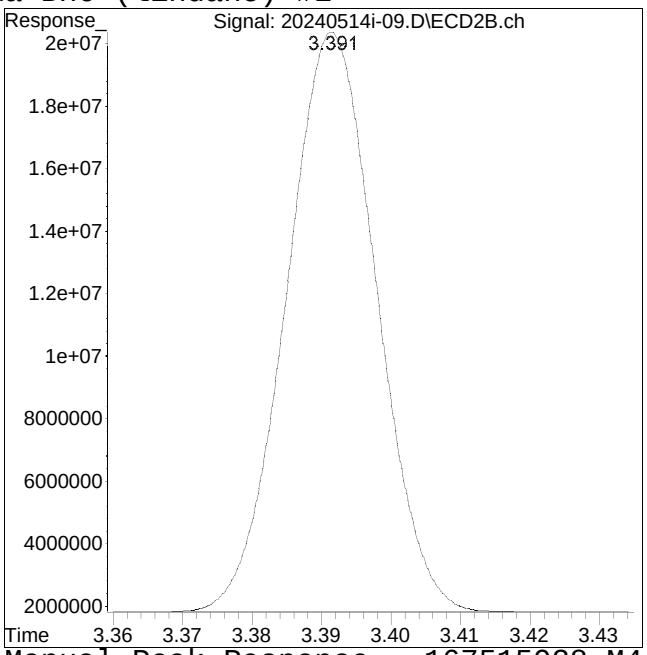
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-09.D
Date Inj'd : 5/14/2024 6:12 pm
Sample : il8pest,42e,,pp 11579 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/15/2024 1:12 pm

Compound #43: gamma-BHC (lindane) #2



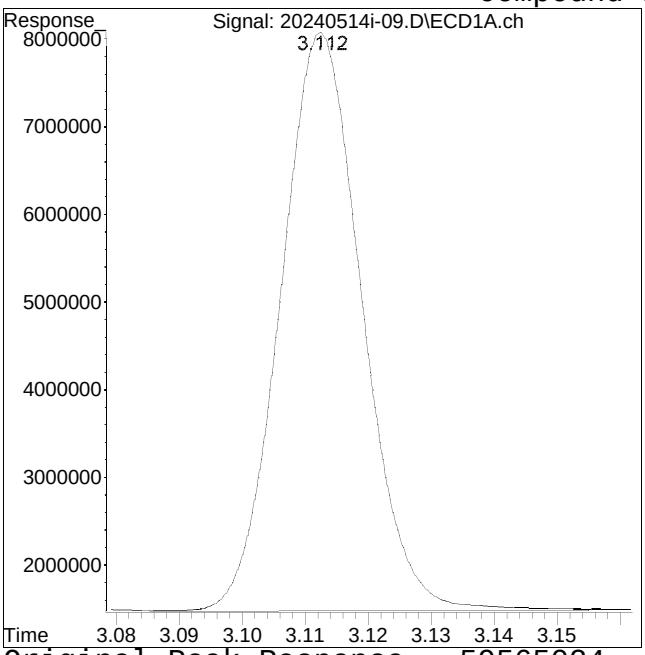


Original Peak Response = 167949009 Manual Peak Response = 167515928 M4
M4 = Poor automated baseline construction.

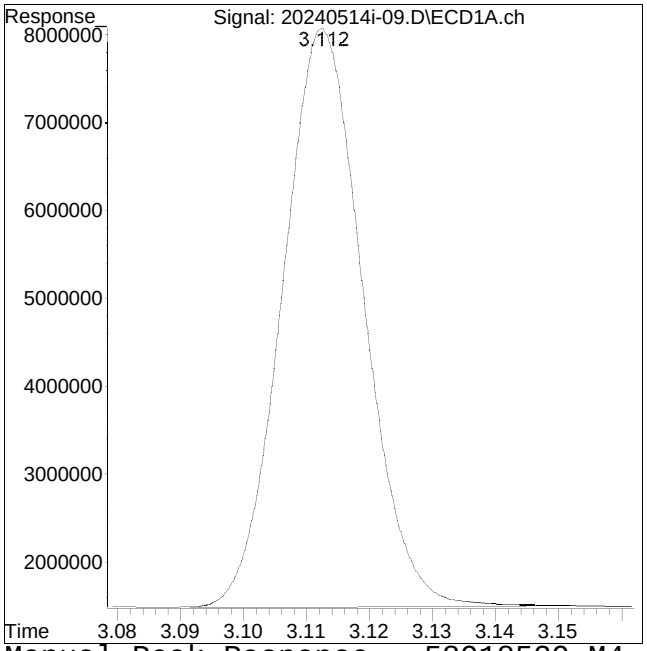
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-09.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:12 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11579 L0.0Quant Date : 5/15/2024 1:12 pm

Compound #6: beta-BHC



Original Peak Response = 59565024



Manual Peak Response = 58918529 M4

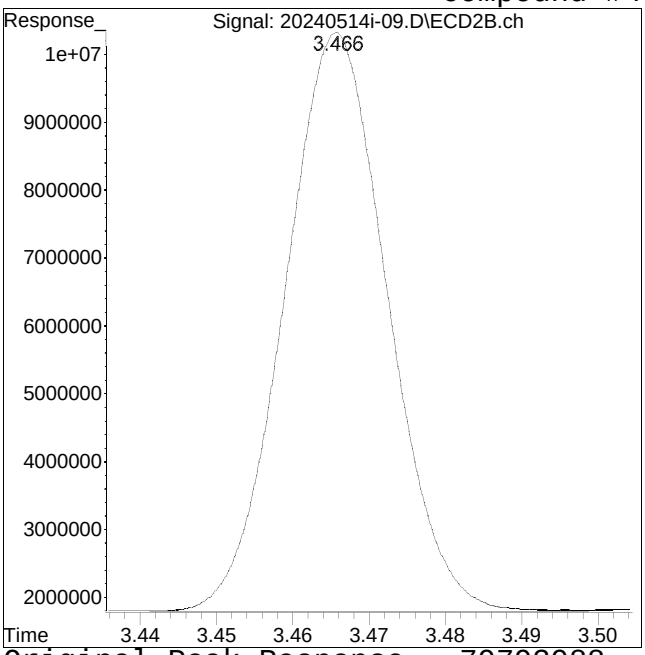
M4 = Poor automated baseline construction.

Manual Integration Report

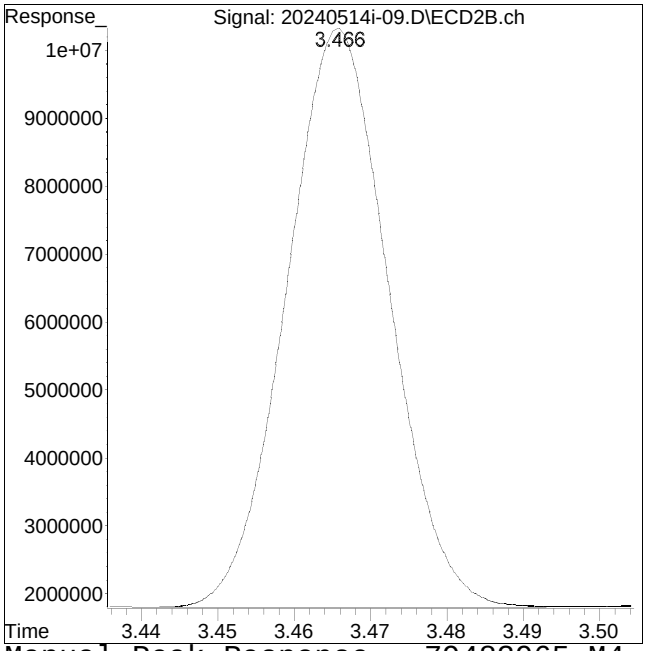
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-09.D
Date Inj'd : 5/14/2024 6:12 pm
Sample : il8pest,42e,,pp 11579 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/15/2024 1:12 pm

Compound #44: beta-BHC #2



Original Peak Response = 79793988



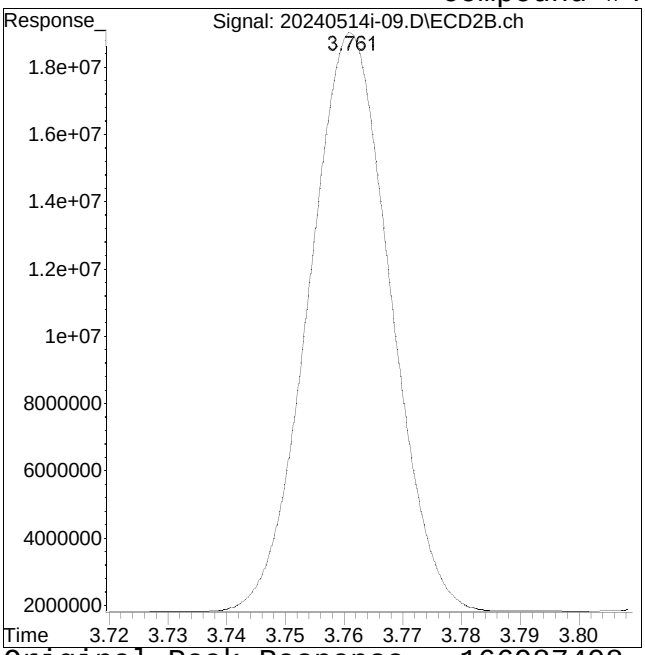
Manual Peak Response = 79483965 M4

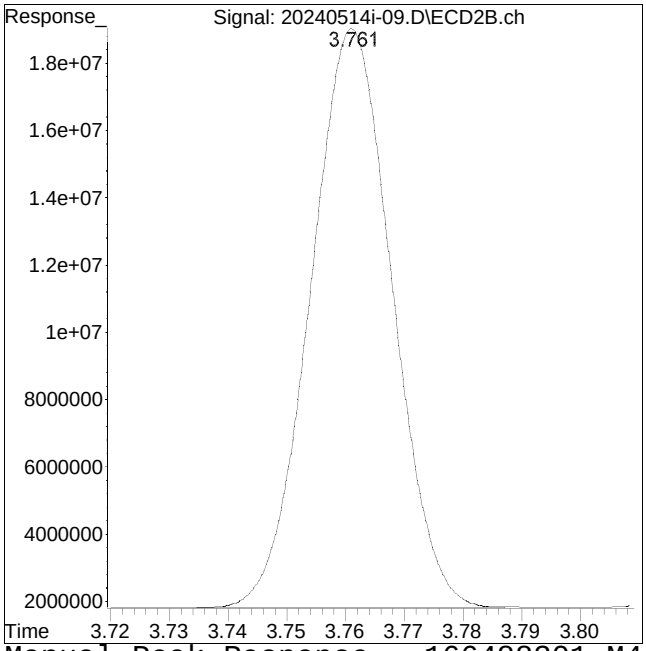
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-09.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:12 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11579 L0.0Quant Date : 5/15/2024 1:12 pm

Compound #45: delta-BHC #2



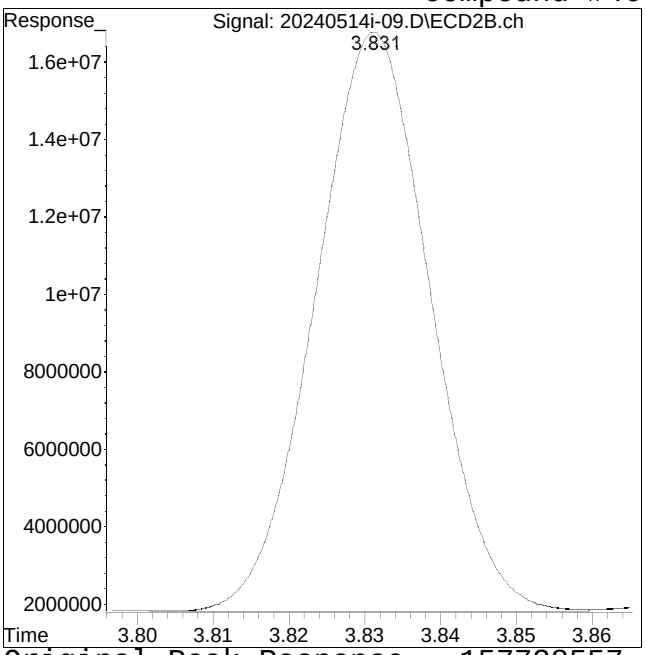


Original Peak Response = 166987408 Manual Peak Response = 166488301 M4
M4 = Poor automated baseline construction.

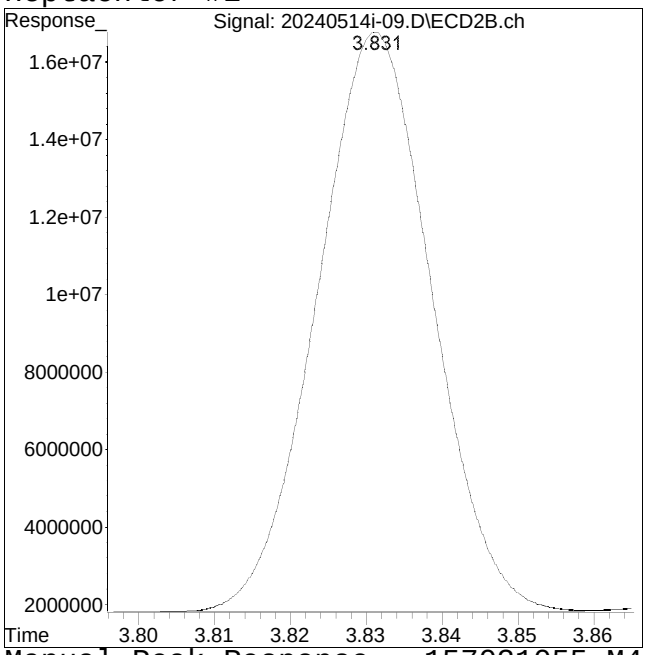
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-09.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:12 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11579 L0.0Quant Date : 5/15/2024 1:12 pm

Compound #46: Heptachlor #2



Original Peak Response = 157738557

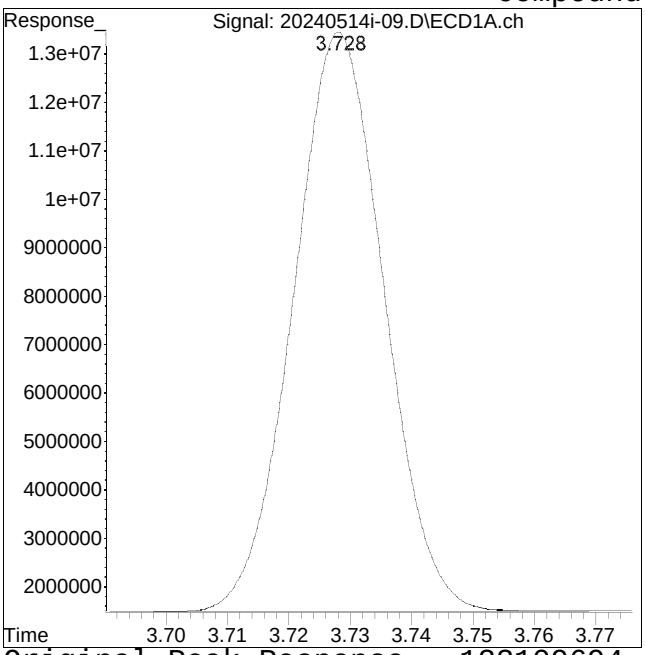


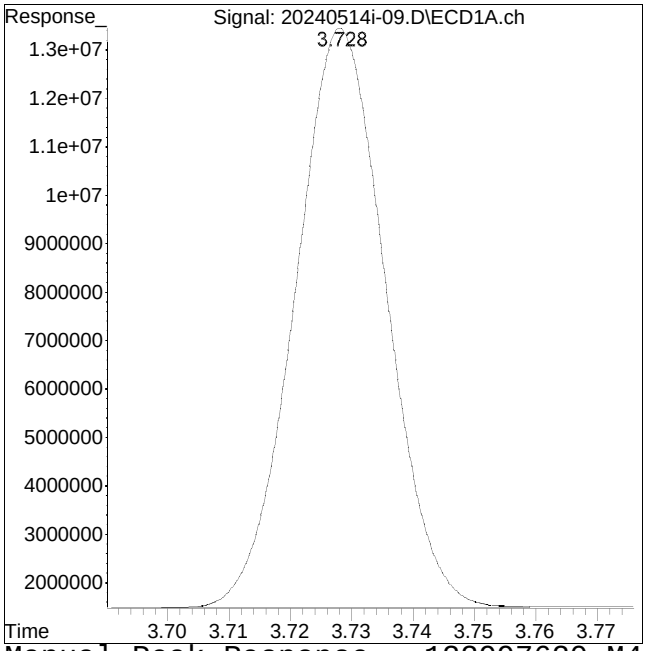
Manual Peak Response = 157031055 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-09.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:12 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11579 L0.0Quant Date : 5/15/2024 1:12 pm

Compound #9: Aldrin



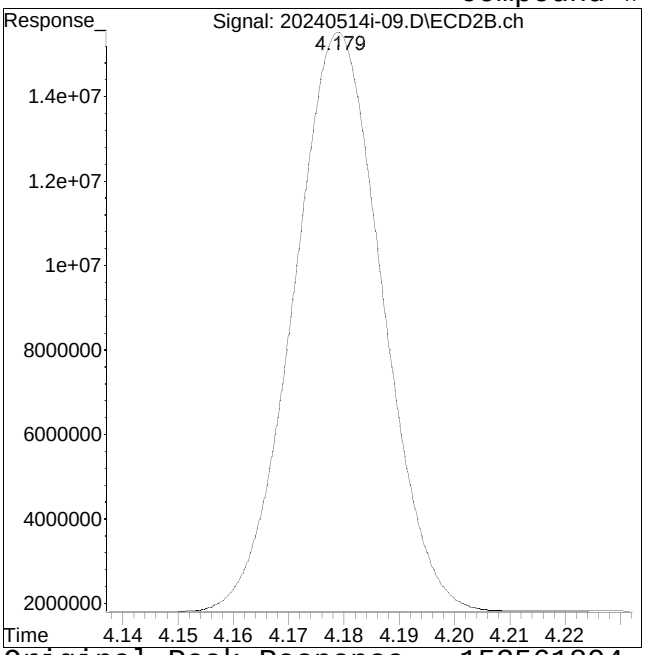


Original Peak Response = 123109694 Manual Peak Response = 122997620 M4
M4 = Poor automated baseline construction.

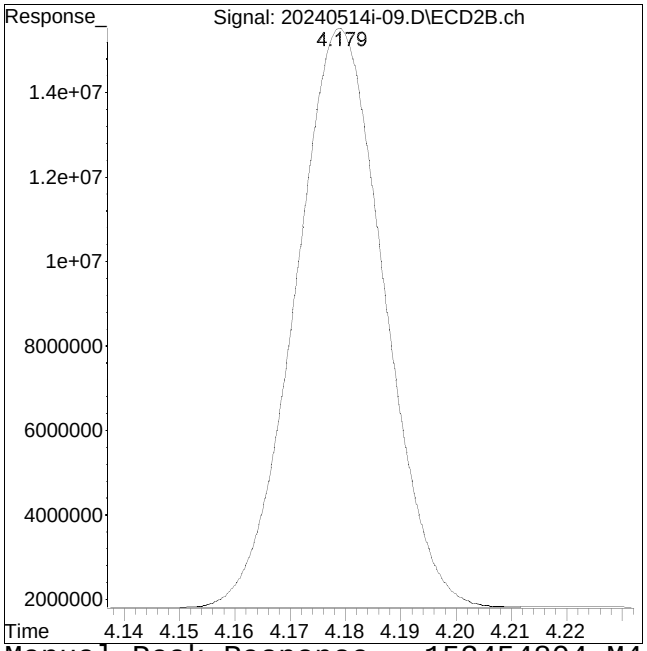
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-09.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:12 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11579 L0.0Quant Date : 5/15/2024 1:12 pm

Compound #47: Aldrin #2



Original Peak Response = 153561804



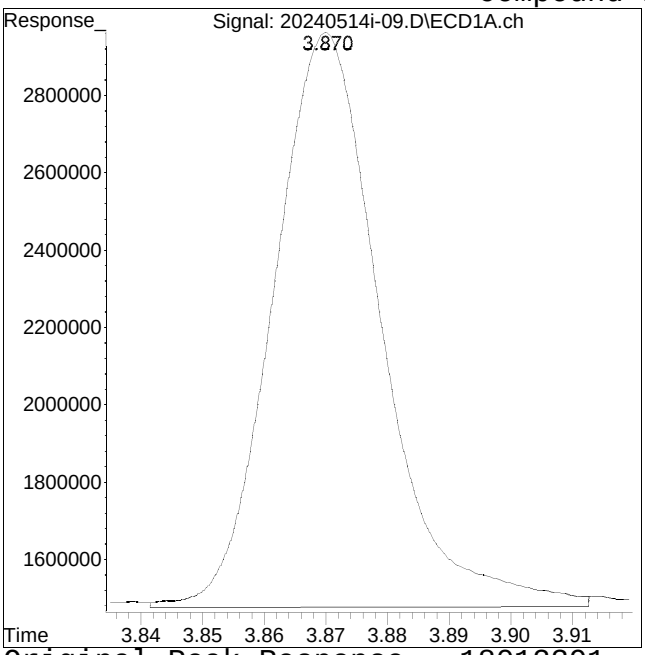
Manual Peak Response = 153454804 M4

M4 = Poor automated baseline construction.

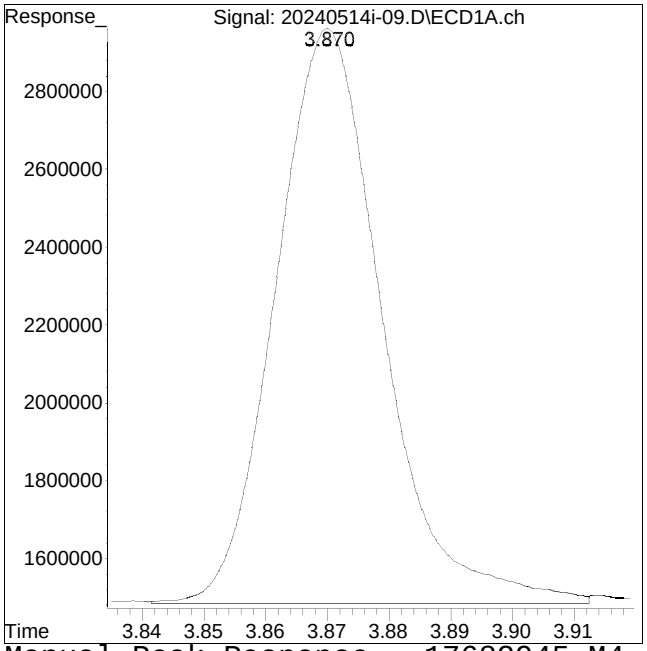
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-09.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:12 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11579 L0.0Quant Date : 5/15/2024 1:12 pm

Compound #10: Alachlor



Original Peak Response = 18012391



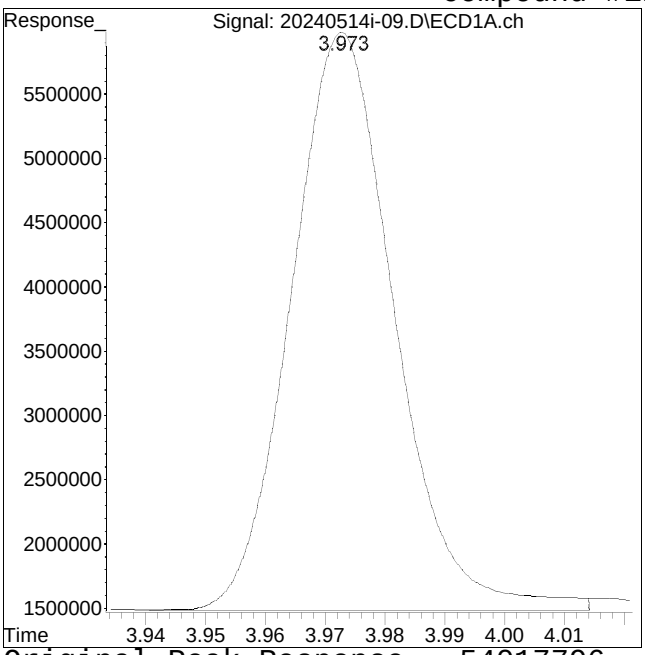
Manual Peak Response = 17682945 M4

M4 = Poor automated baseline construction.

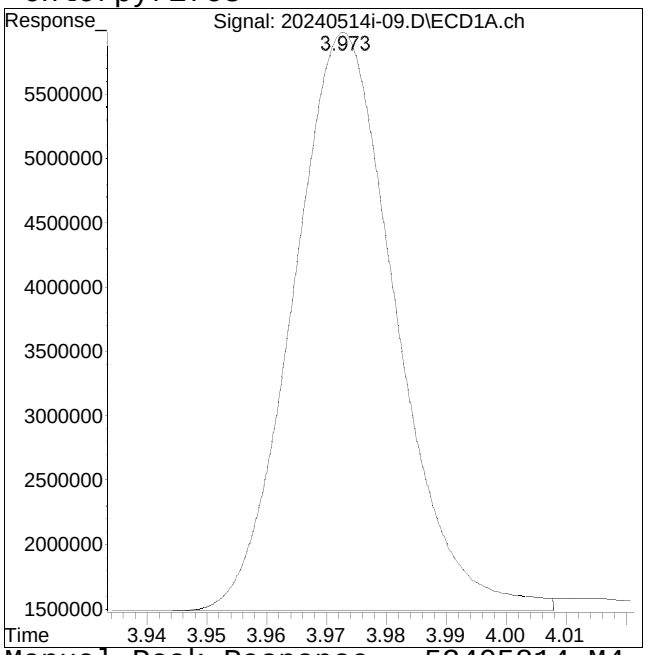
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-09.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:12 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11579 L0.0Quant Date : 5/15/2024 1:12 pm

Compound #11: Chlorpyrifos



Original Peak Response = 54017796



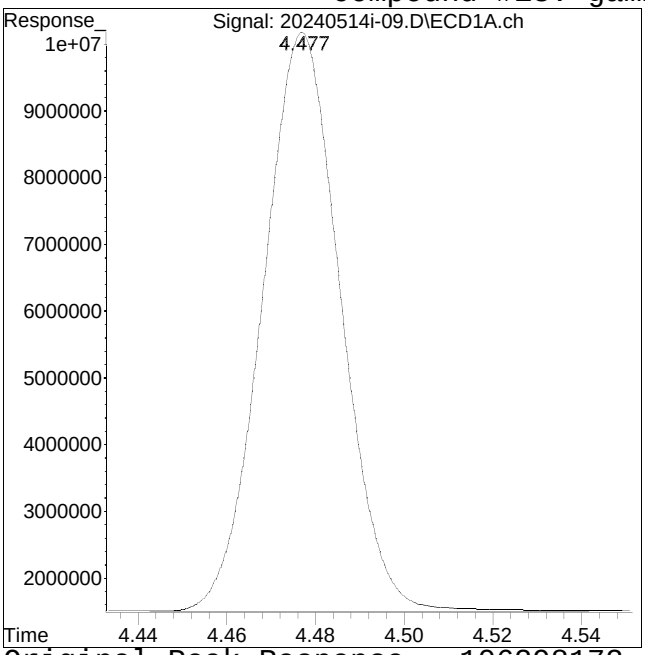
Manual Peak Response = 53405814 M4

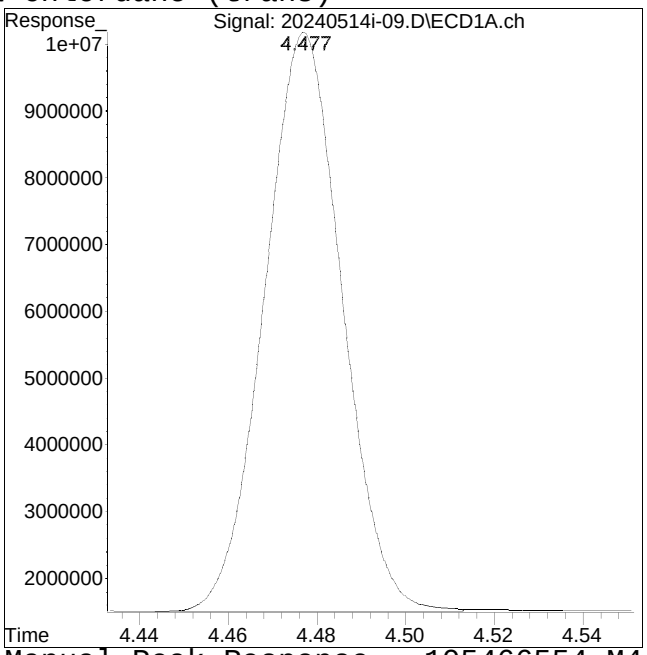
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-09.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:12 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11579 L0.0Quant Date : 5/15/2024 1:12 pm

Compound #13: gamma-Chlordane (trans)





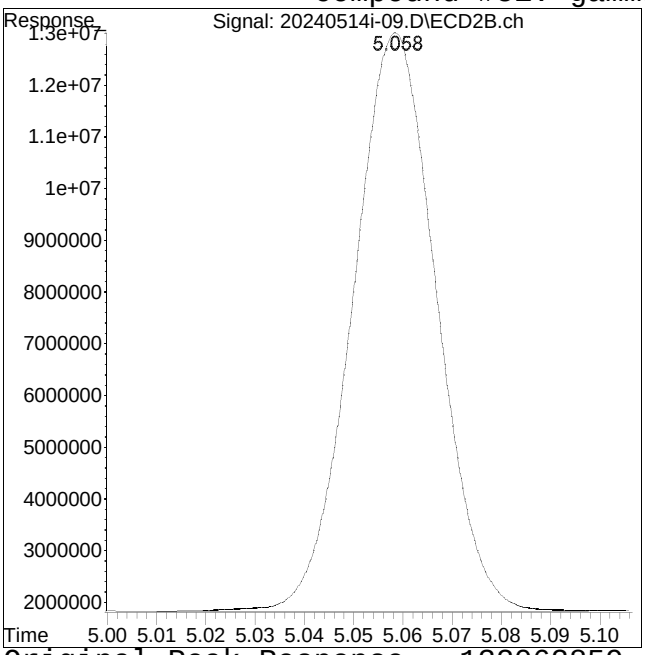
Original Peak Response = 106298172 Manual Peak Response = 105466554 M4
M4 = Poor automated baseline construction.

Manual Integration Report

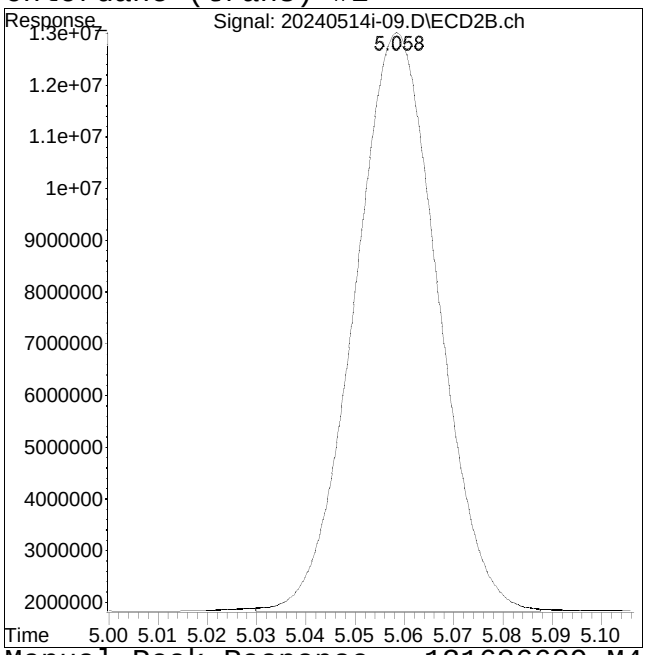
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-09.D
Date Inj'd : 5/14/2024 6:12 pm
Sample : il8pest,42e,,pp 11579 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/15/2024 1:12 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 132062859



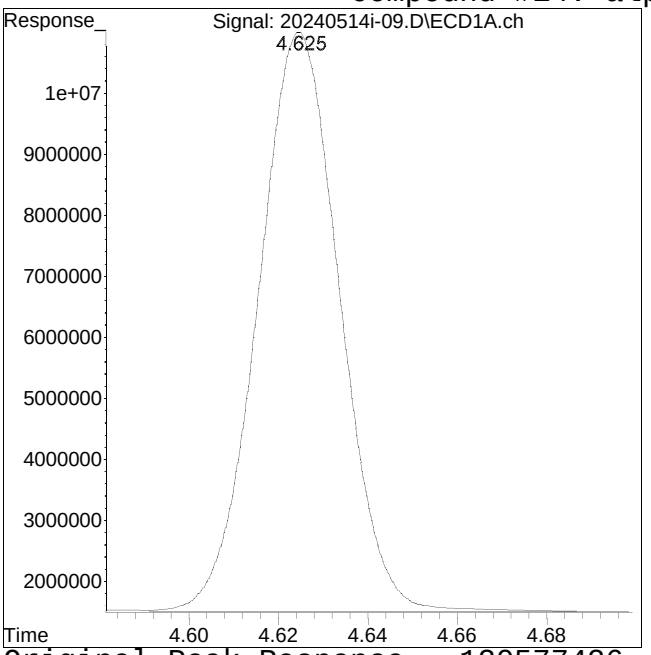
Manual Peak Response = 131636609 M4

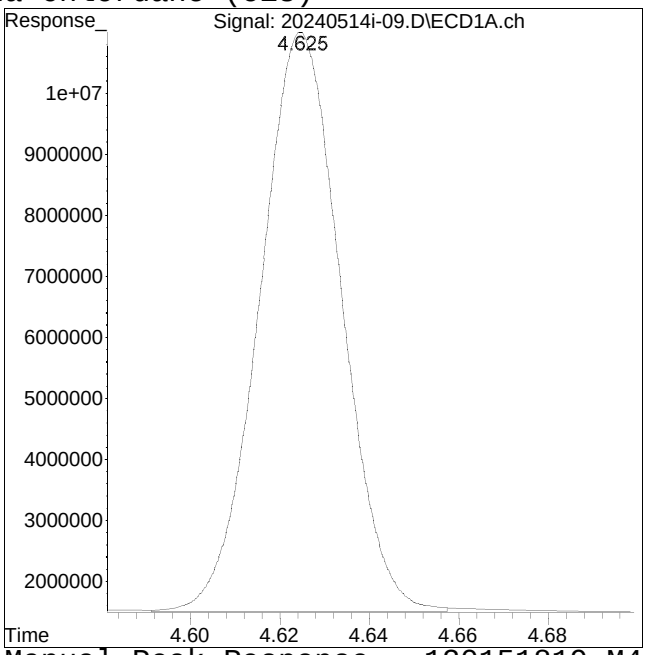
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-09.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:12 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11579 L0.0Quant Date : 5/15/2024 1:12 pm

Compound #14: alpha-Chlordane (cis)



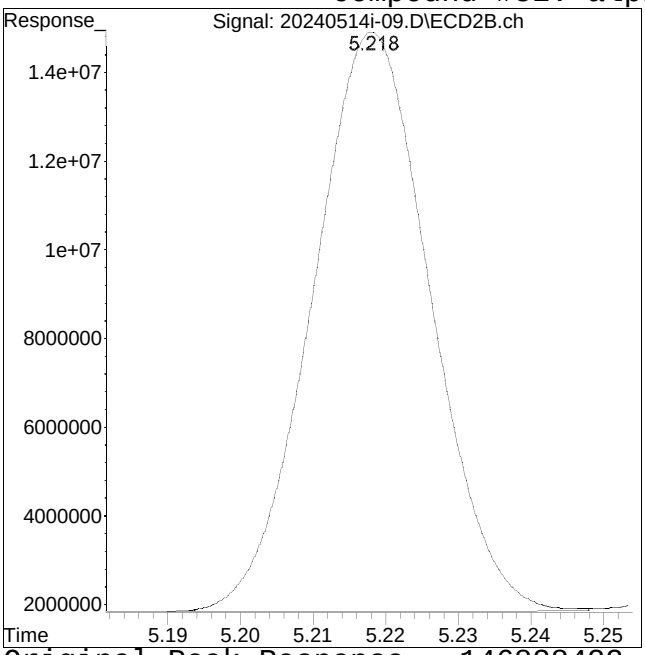


Original Peak Response = 120577426 Manual Peak Response = 120151819 M4
M4 = Poor automated baseline construction.

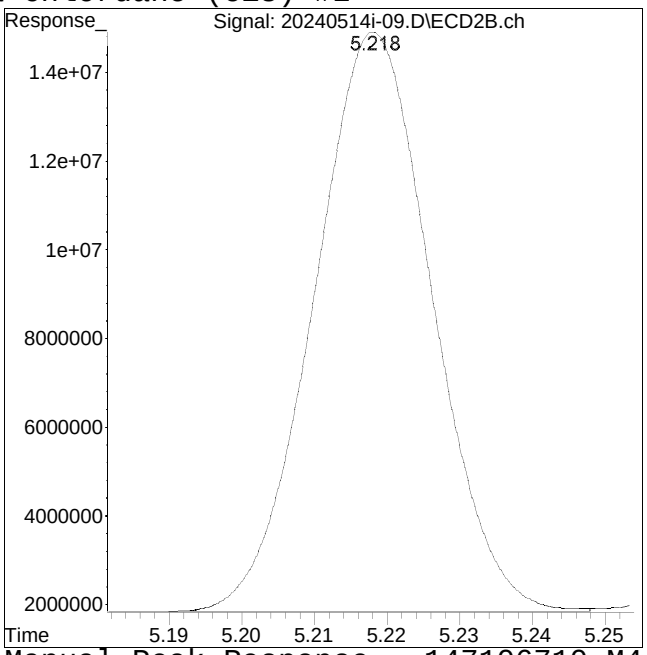
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-09.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:12 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11579 L0.0Quant Date : 5/15/2024 1:12 pm

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 146828422

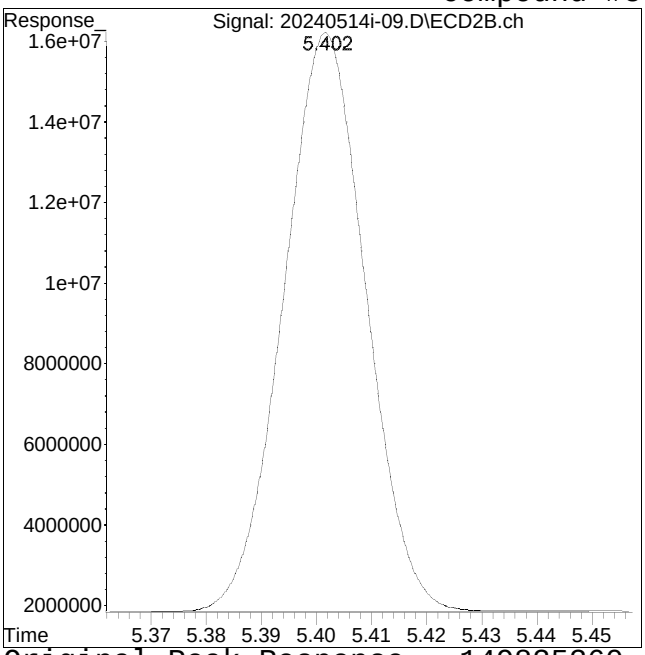


Manual Peak Response = 147106710 M4
M4 = Poor automated baseline construction.

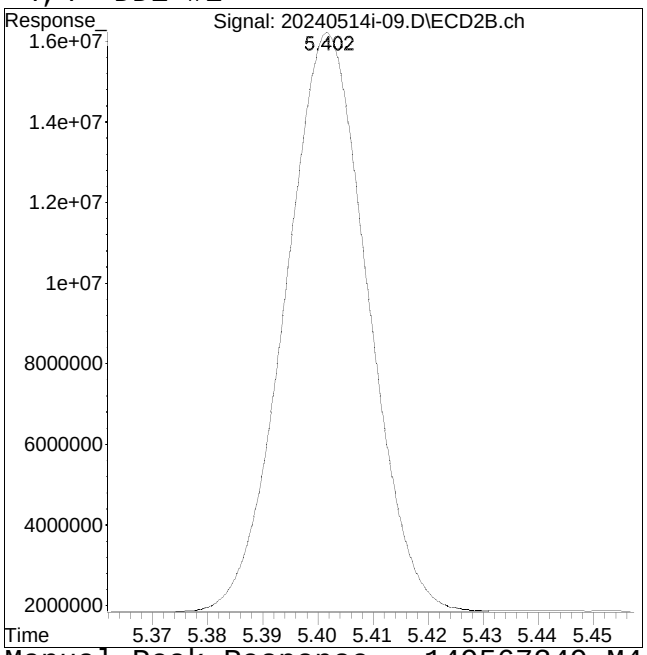
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-09.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:12 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11579 L0.0Quant Date : 5/15/2024 1:12 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 149835360



Manual Peak Response = 149567349 M4

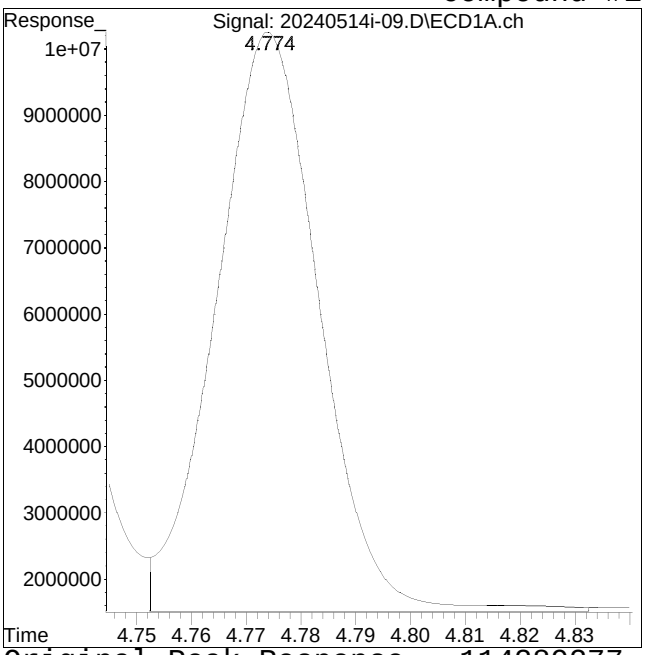
M4 = Poor automated baseline construction.

Manual Integration Report

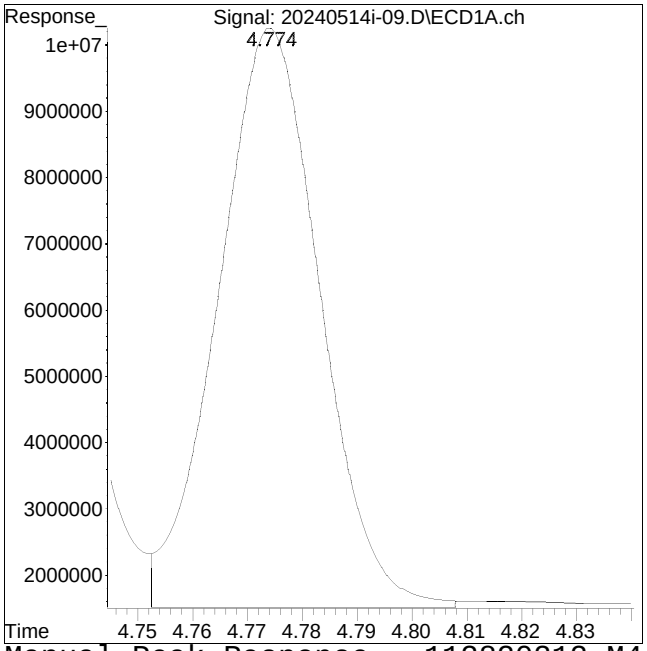
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-09.D
Date Inj'd : 5/14/2024 6:12 pm
Sample : il8pest,42e,,pp 11579 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/15/2024 1:12 pm

Compound #16: Endosulfan I



Original Peak Response = 114289277



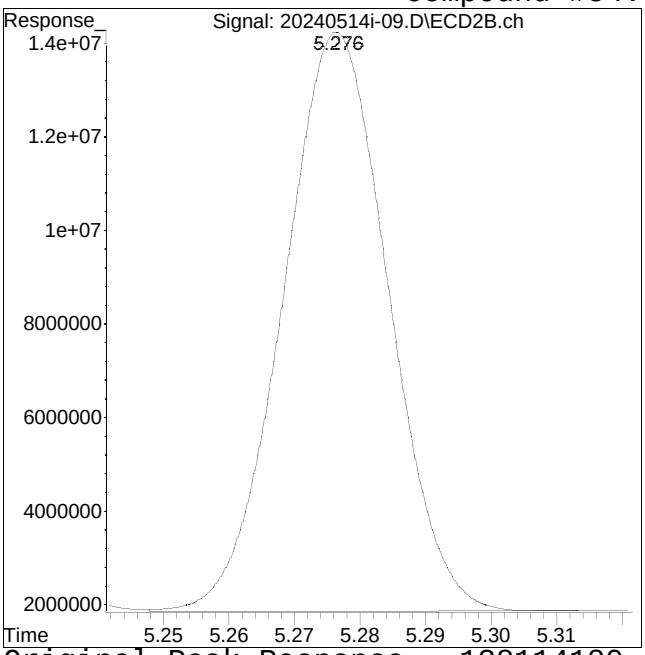
Manual Peak Response = 112820212 M4

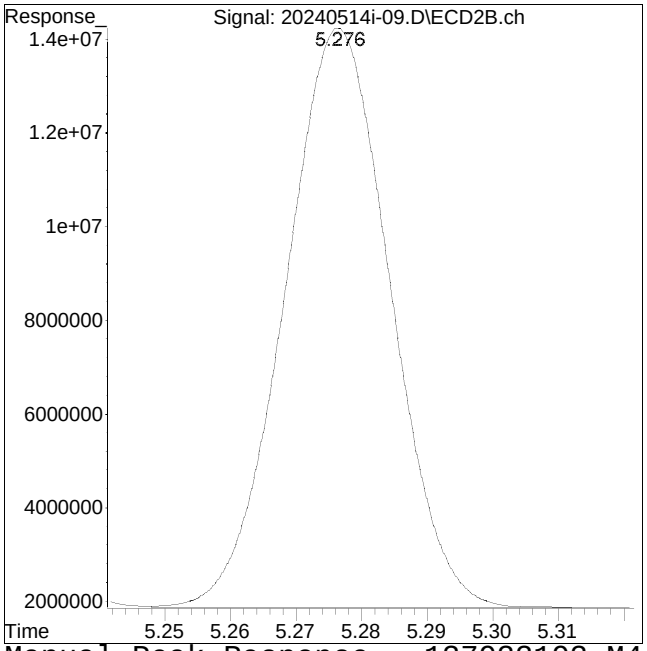
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-09.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:12 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11579 L0.0Quant Date : 5/15/2024 1:12 pm

Compound #54: Endosulfan I #2



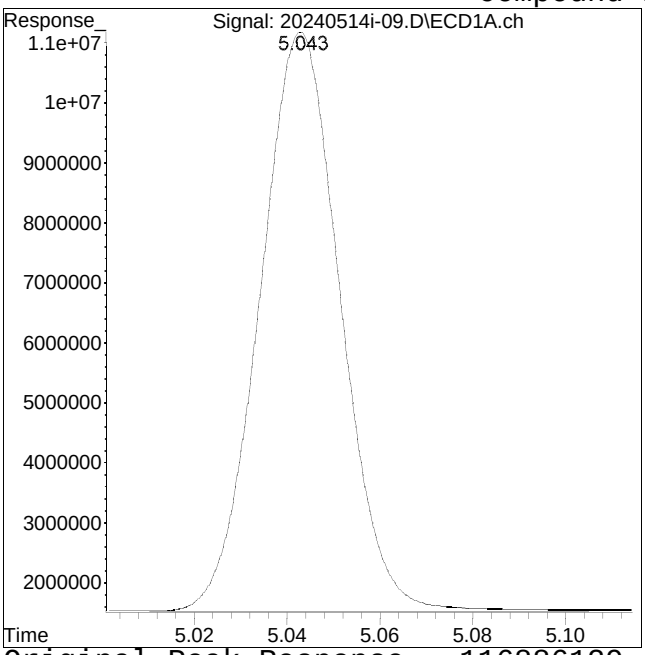


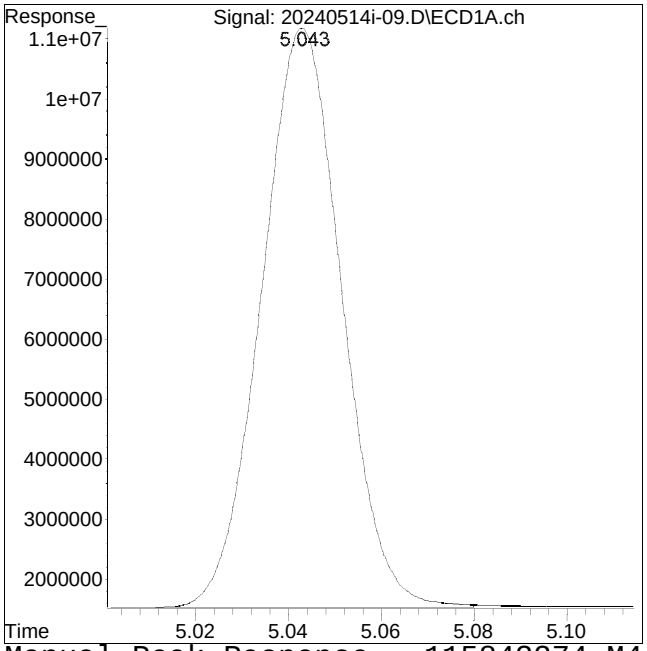
Original Peak Response = 138114180 Manual Peak Response = 137933193 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-09.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:12 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11579 L0.0Quant Date : 5/15/2024 1:12 pm

Compound #17: Dieldrin



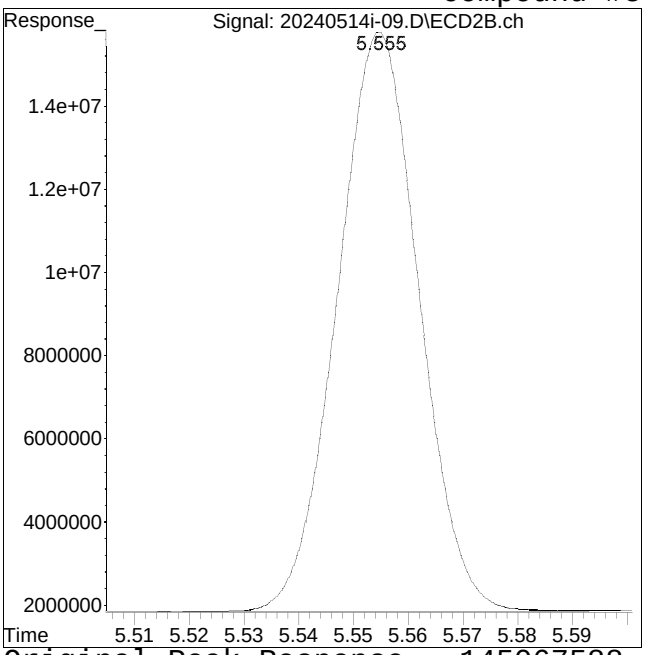


Original Peak Response = 116886129 Manual Peak Response = 115843274 M4
M4 = Poor automated baseline construction.

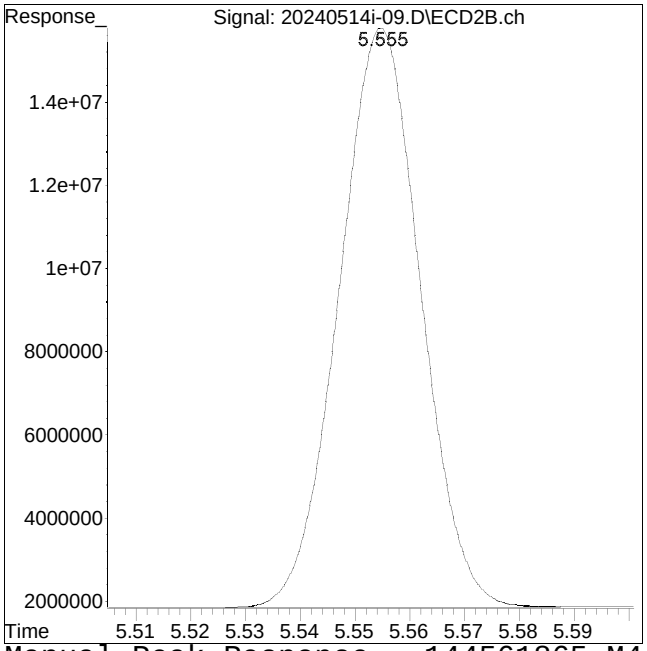
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-09.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:12 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11579 L0.0Quant Date : 5/15/2024 1:12 pm

Compound #55: Dieldrin #2



Original Peak Response = 145067588



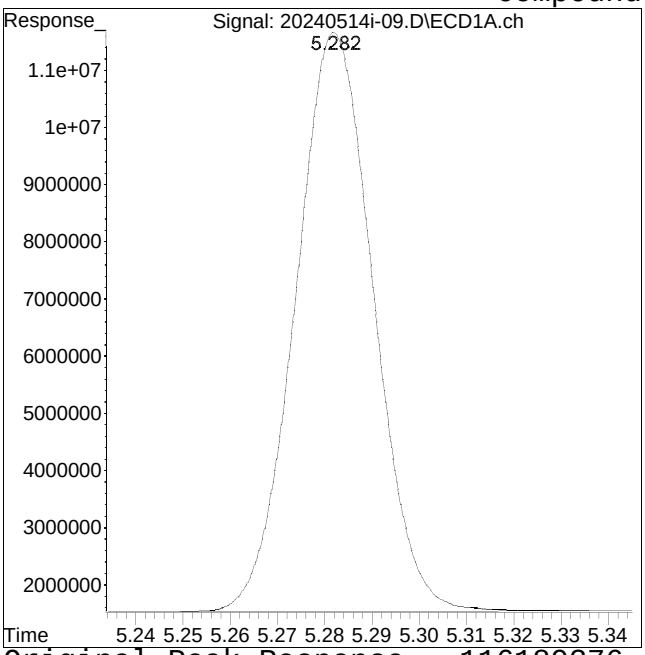
Manual Peak Response = 144561865 M4

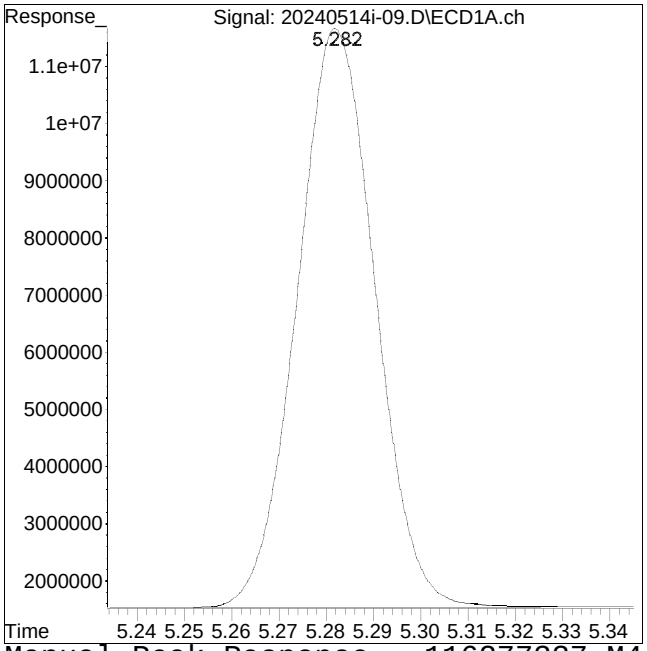
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-09.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:12 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11579 L0.0Quant Date : 5/15/2024 1:12 pm

Compound #18: Endrin



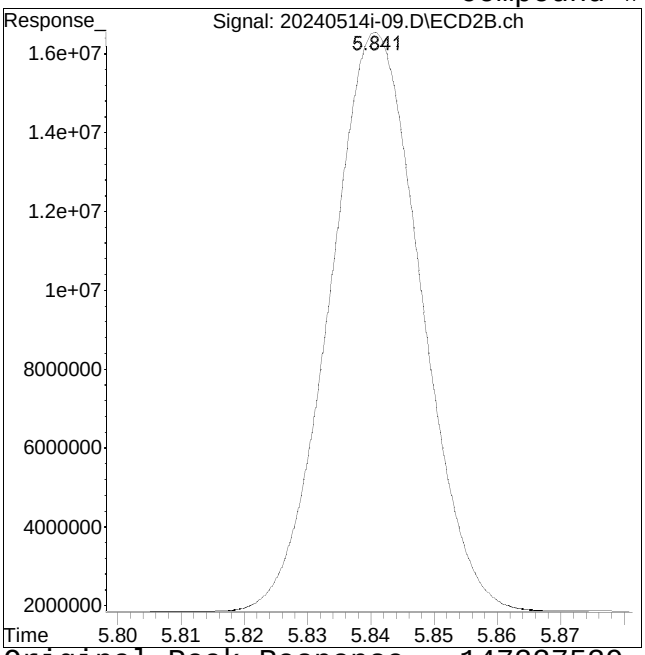


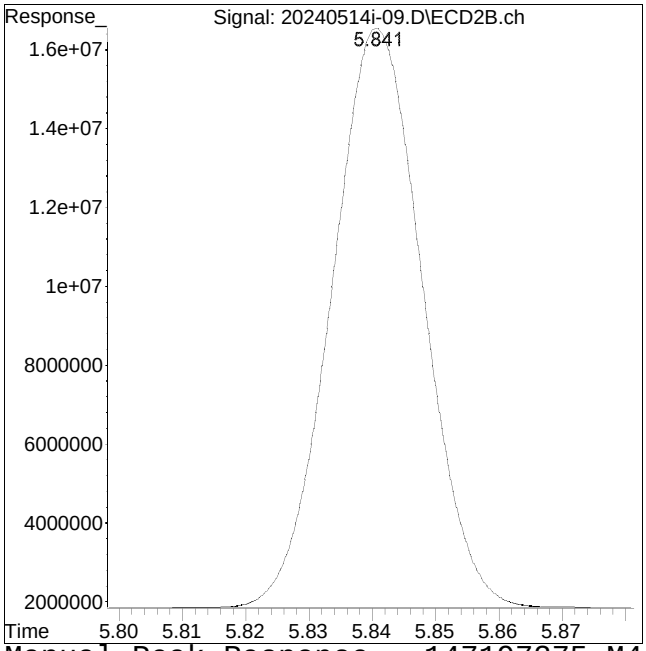
Original Peak Response = 116189376 Manual Peak Response = 116277337 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-09.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:12 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11579 L0.0Quant Date : 5/15/2024 1:12 pm

Compound #56: Endrin #2



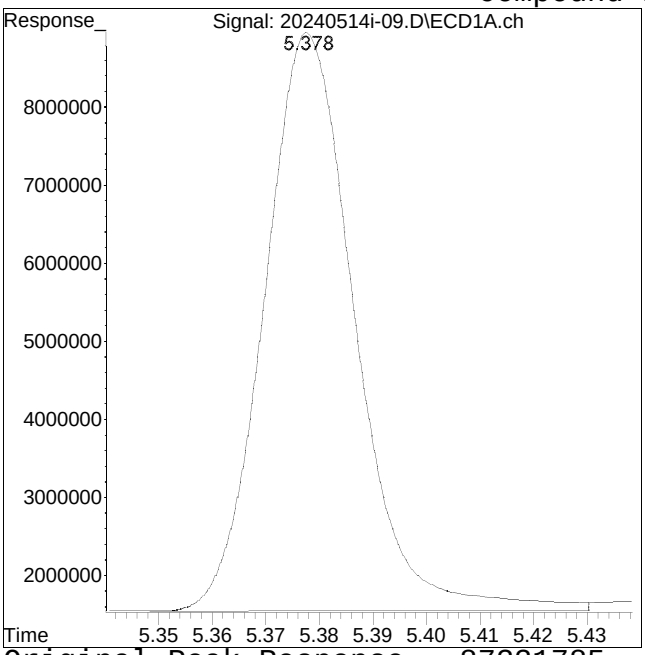


Original Peak Response = 147337539 Manual Peak Response = 147197275 M4
M4 = Poor automated baseline construction.

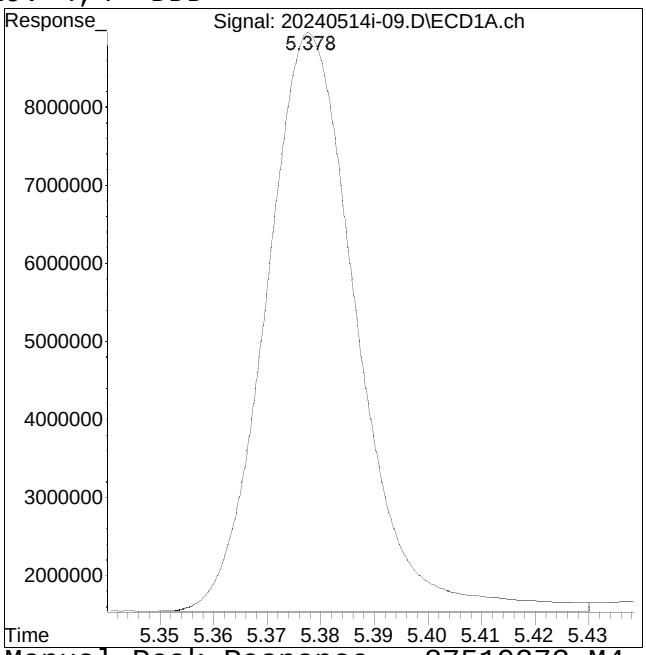
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-09.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:12 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11579 L0.0Quant Date : 5/15/2024 1:12 pm

Compound #19: 4,4'-DDD



Original Peak Response = 87331785



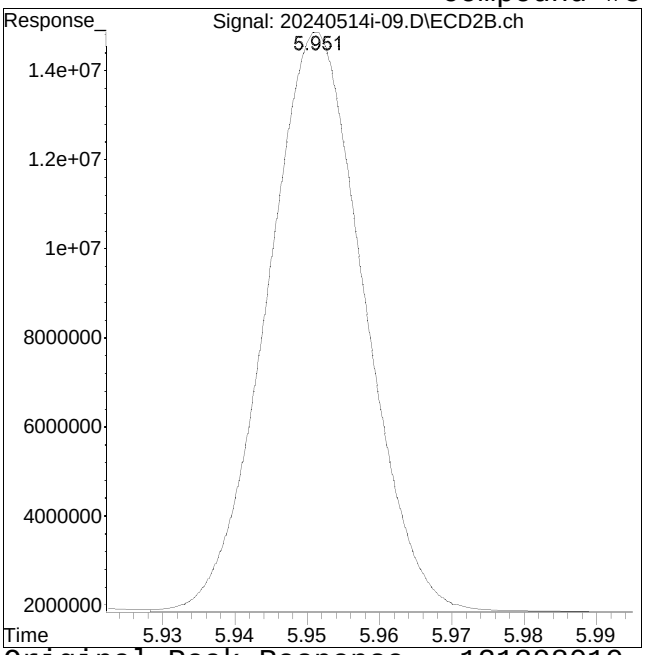
Manual Peak Response = 87510273 M4

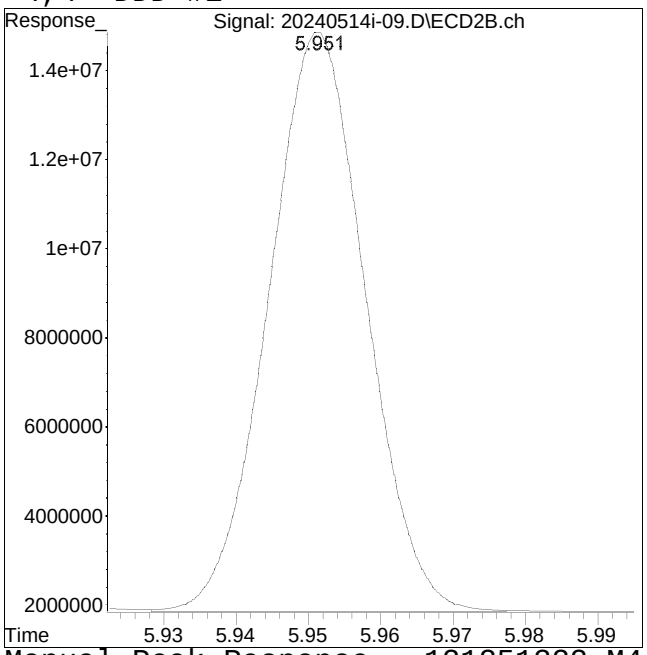
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-09.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:12 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11579 L0.0Quant Date : 5/15/2024 1:12 pm

Compound #57: 4,4'-DDD #2





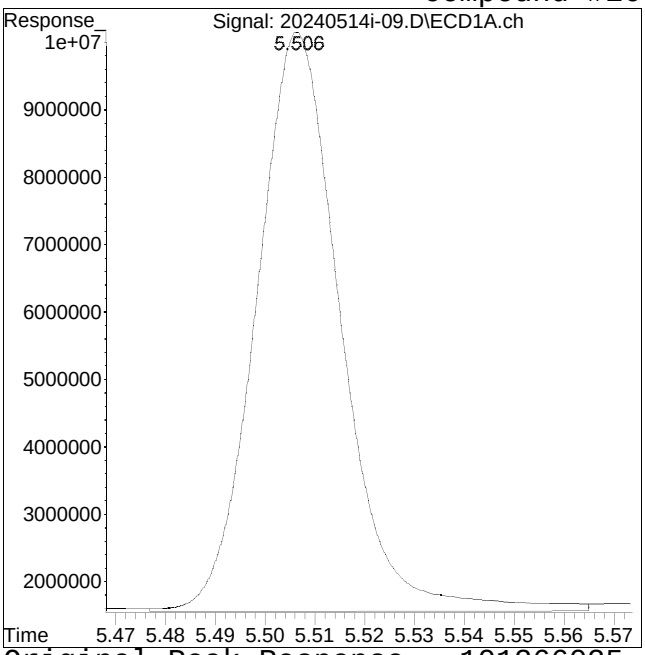
Original Peak Response = 121308010 Manual Peak Response = 121251322 M4
M4 = Poor automated baseline construction.

Manual Integration Report

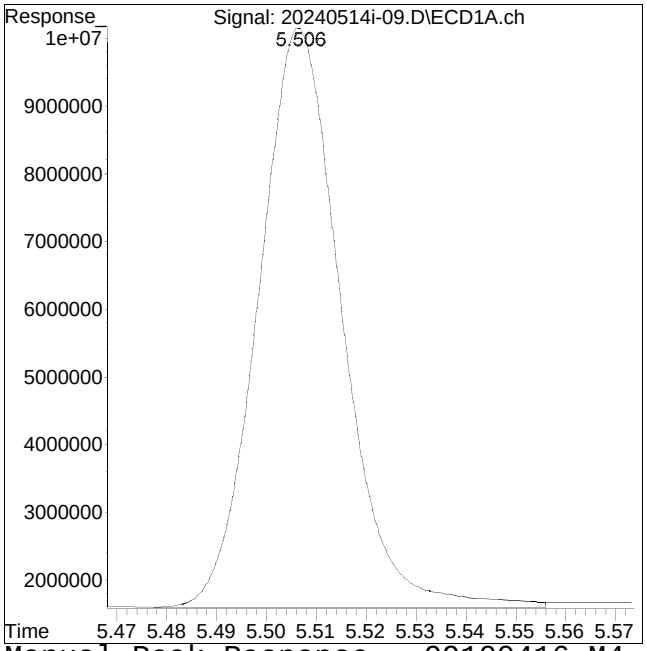
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-09.D
Date Inj'd : 5/14/2024 6:12 pm
Sample : il8pest,42e,,pp 11579 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/15/2024 1:12 pm

Compound #20: Endosulfan II



Original Peak Response = 101266025



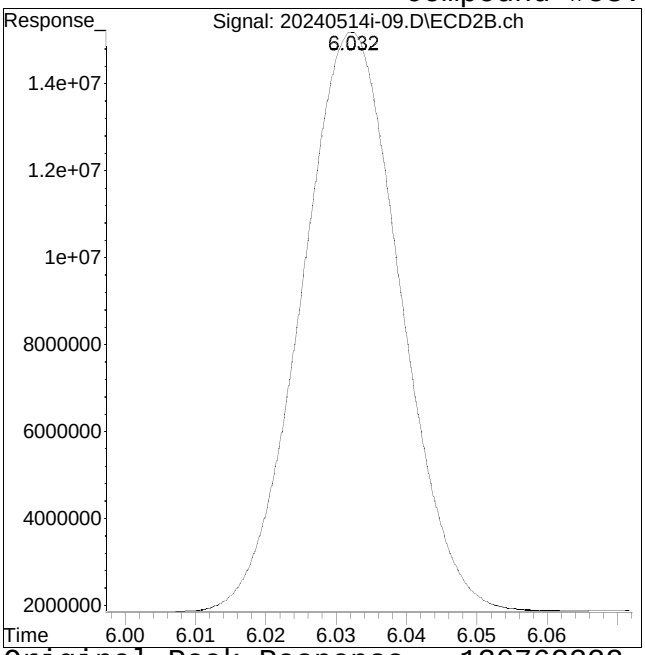
Manual Peak Response = 99100416 M4

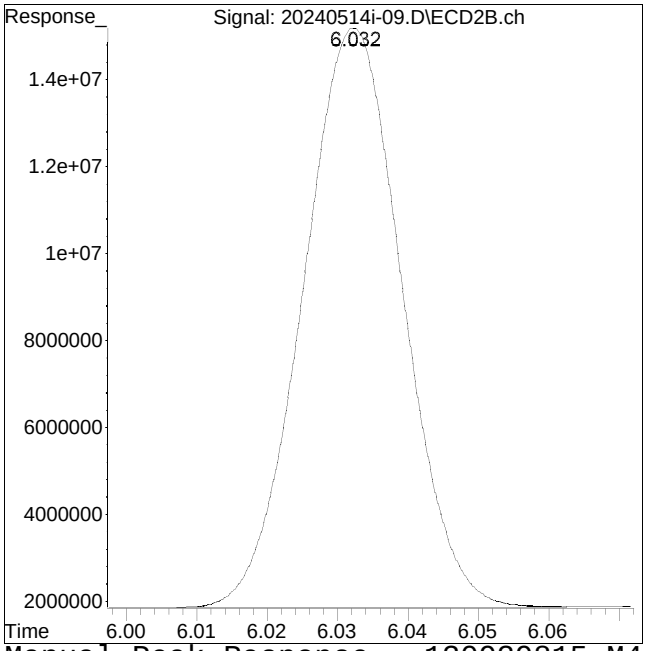
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-09.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:12 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11579 L0.0Quant Date : 5/15/2024 1:12 pm

Compound #58: Endosulfan II #2



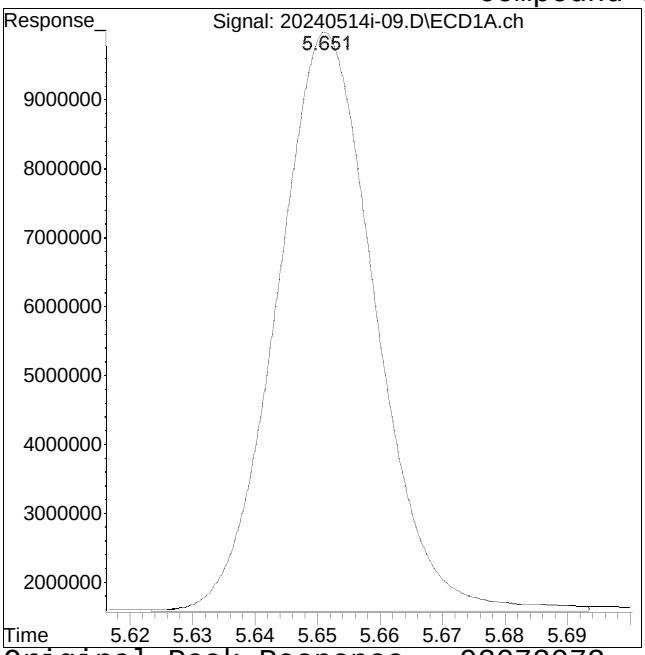


Original Peak Response = 130762322 Manual Peak Response = 130939815 M4
M4 = Poor automated baseline construction.

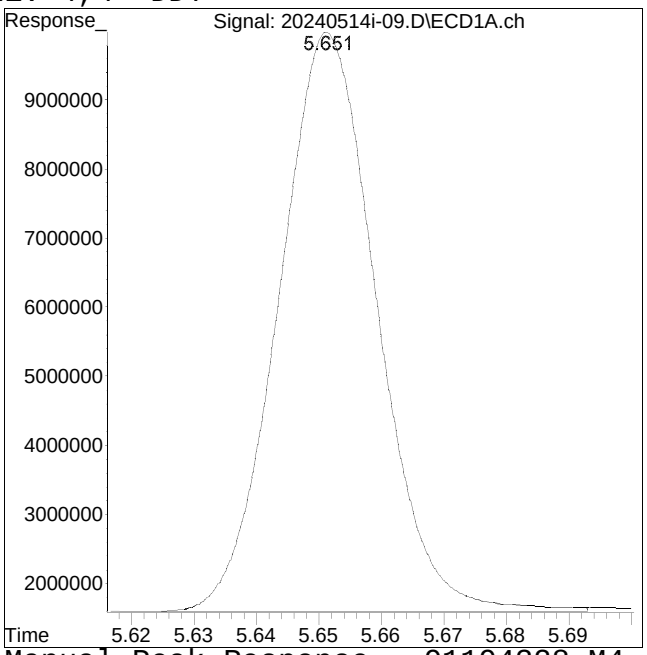
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-09.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:12 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11579 L0.0Quant Date : 5/15/2024 1:12 pm

Compound #21: 4,4'-DDT



Original Peak Response = 92073072



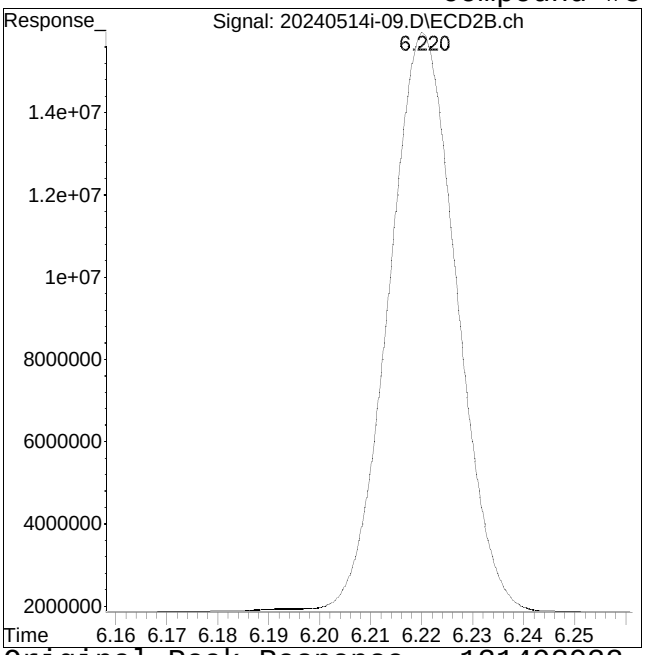
Manual Peak Response = 91194328 M4

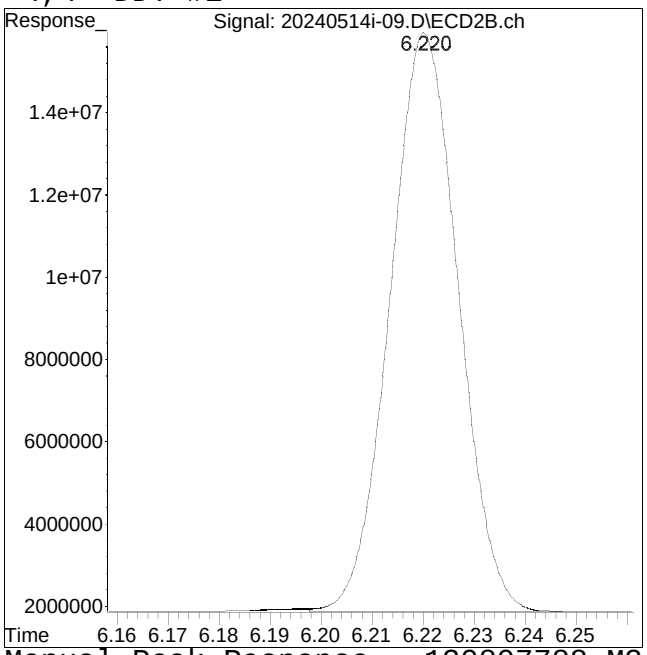
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-09.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:12 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11579 L0.0Quant Date : 5/15/2024 1:12 pm

Compound #59: 4,4'-DDT #2





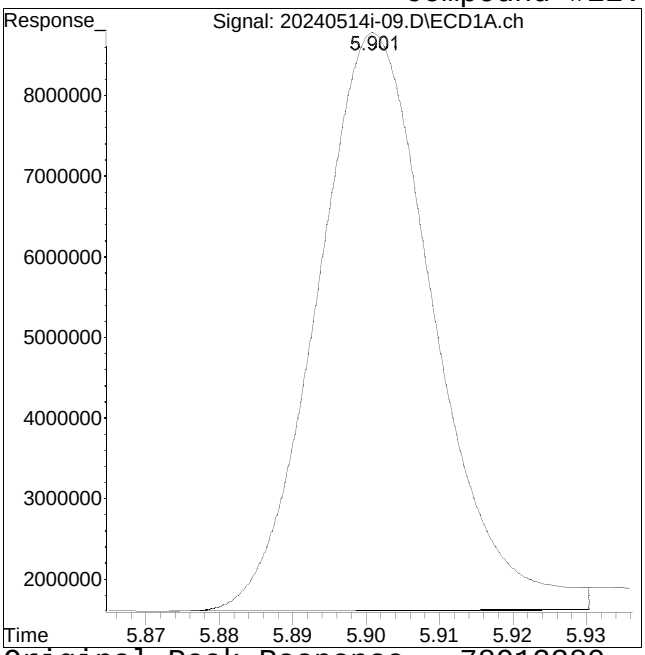
Original Peak Response = 131492932 Manual Peak Response = 130807788 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

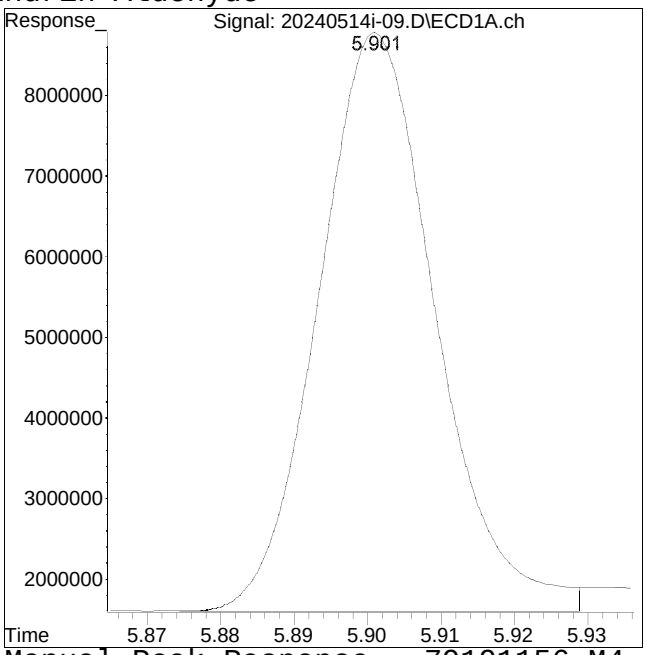
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-09.D
Date Inj'd : 5/14/2024 6:12 pm
Sample : il8pest,42e,,pp 11579 L0.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/15/2024 1:12 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 78912380



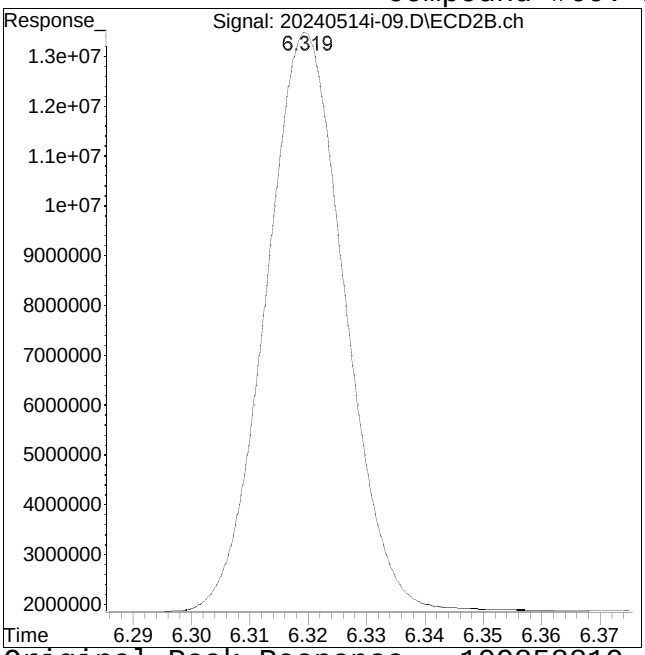
Manual Peak Response = 79191156 M4

M4 = Poor automated baseline construction.

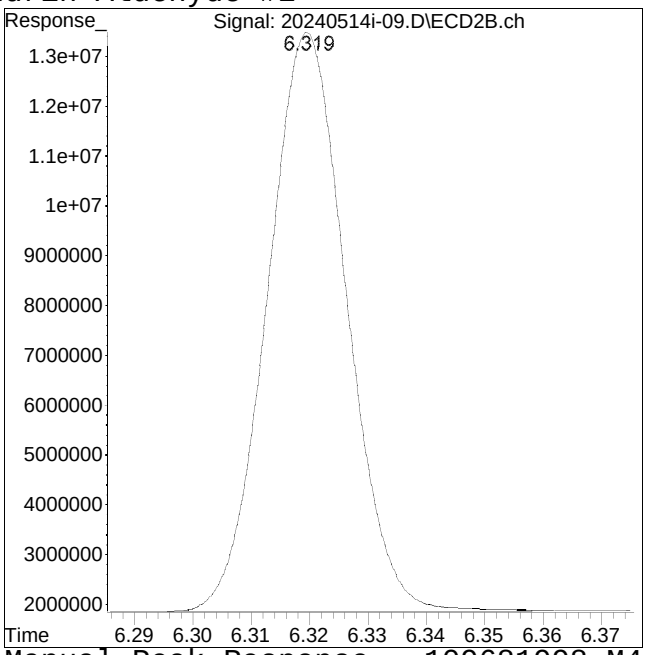
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-09.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:12 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11579 L0.0Quant Date : 5/15/2024 1:12 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 109858810



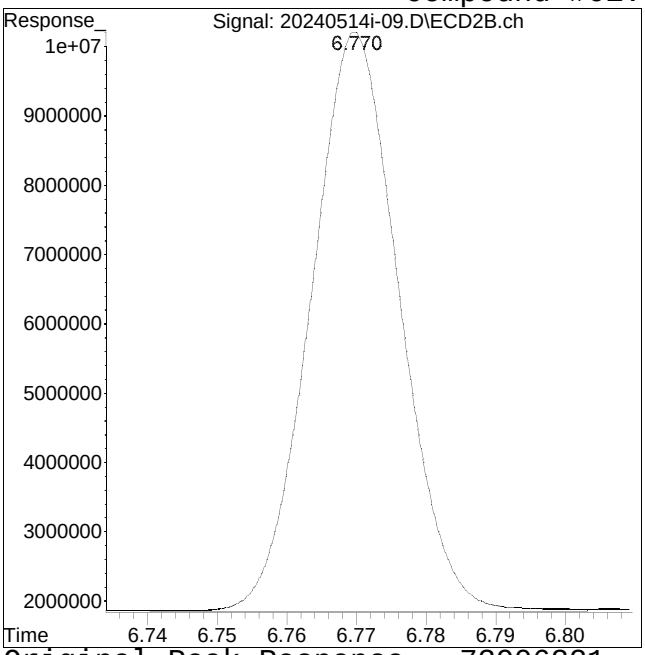
Manual Peak Response = 109681998 M4

M4 = Poor automated baseline construction.

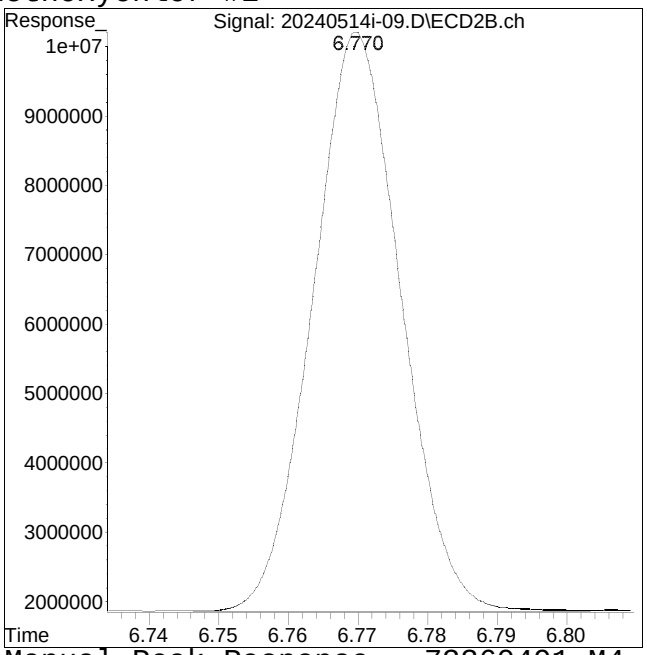
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-09.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:12 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11579 L0.0Quant Date : 5/15/2024 1:12 pm

Compound #61: Methoxychlor #2



Original Peak Response = 73906221



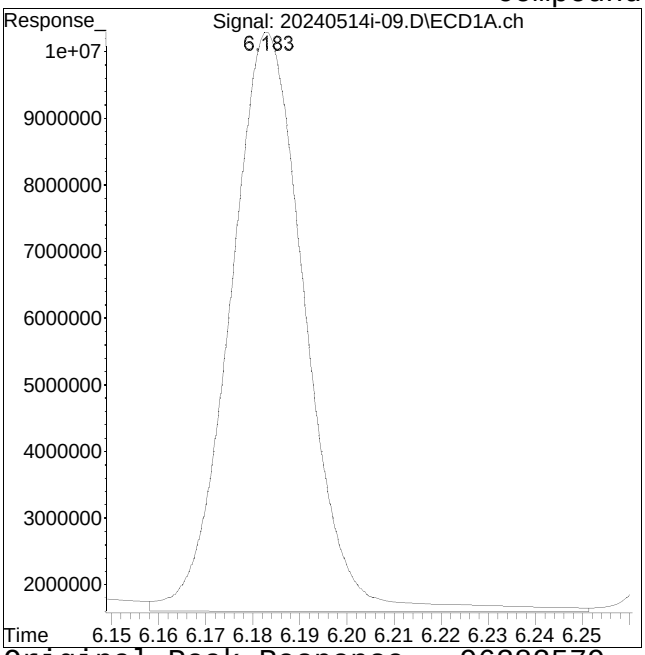
Manual Peak Response = 73360491 M4

M4 = Poor automated baseline construction.

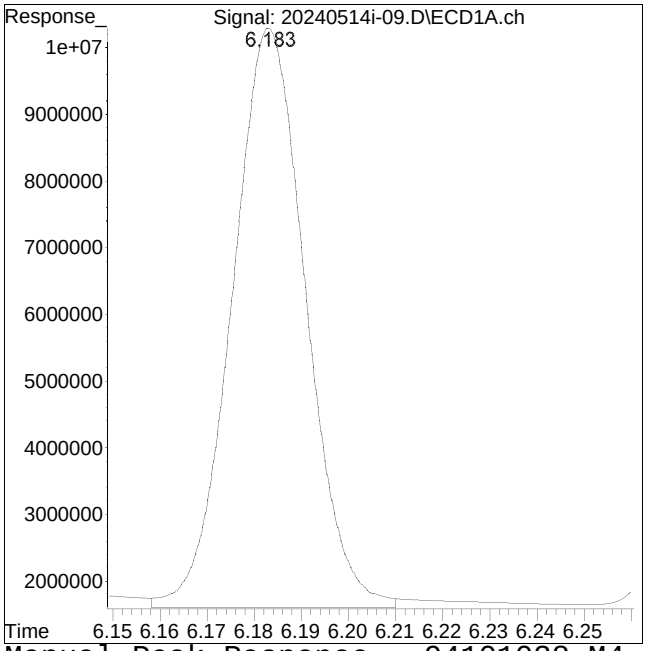
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-09.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:12 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11579 L0.0Quant Date : 5/15/2024 1:12 pm

Compound #24: Mirex



Original Peak Response = 96382579



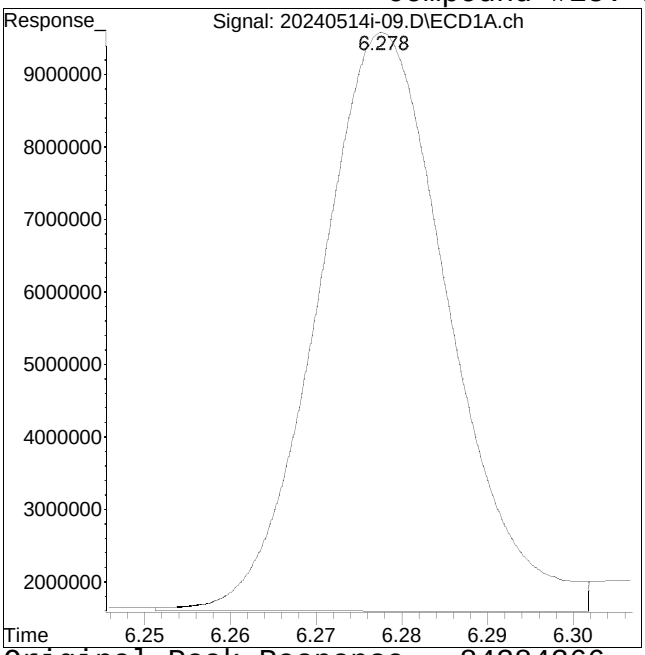
Manual Peak Response = 94101038 M4

M4 = Poor automated baseline construction.

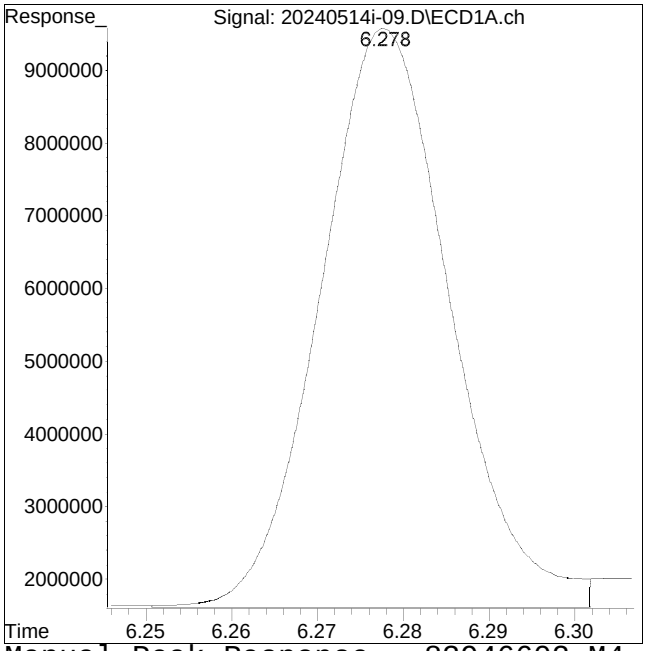
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-09.D
Date Inj'd : 5/14/2024 6:12 pm
Sample : il8pest,42e,,pp 11579 L0.0
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/15/2024 1:12 pm

Compound #25: Endosulfan Sulfate



Original Peak Response = 84384366



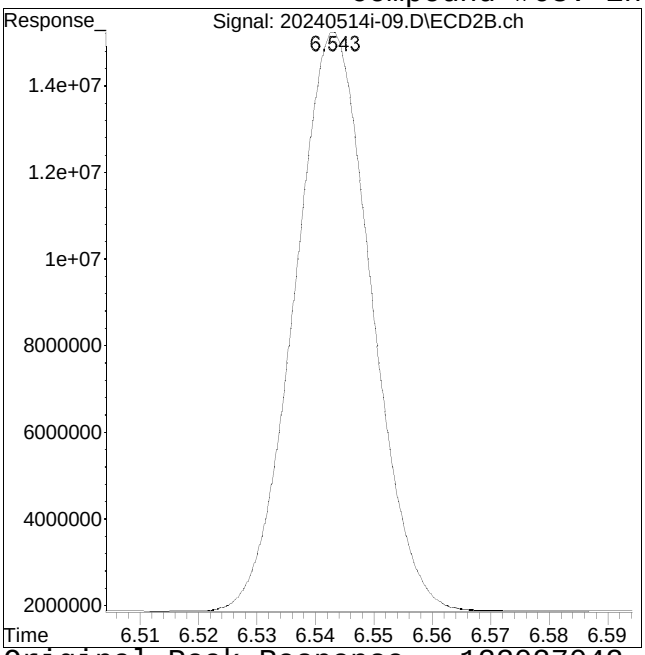
Manual Peak Response = 83946602 M4

M4 = Poor automated baseline construction.

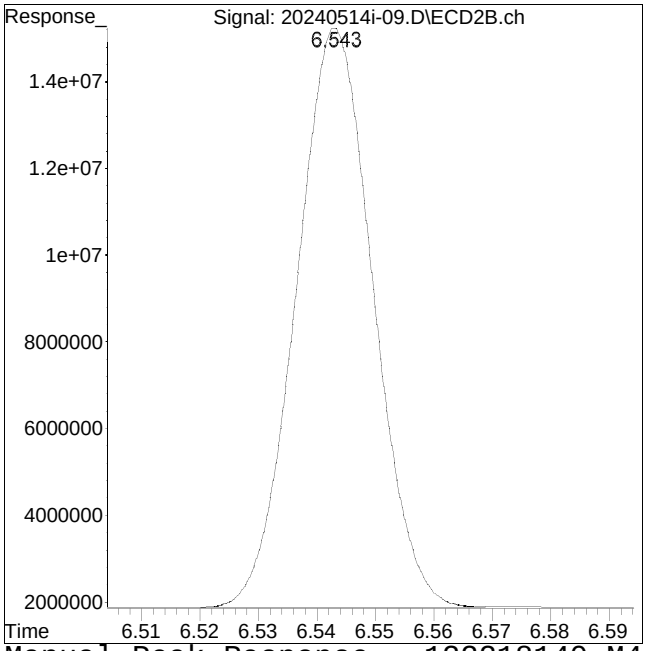
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-09.D
Date Inj'd : 5/14/2024 6:12 pm
Sample : il8pest,42e,,pp 11579 L0.0
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/15/2024 1:12 pm

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 123027042



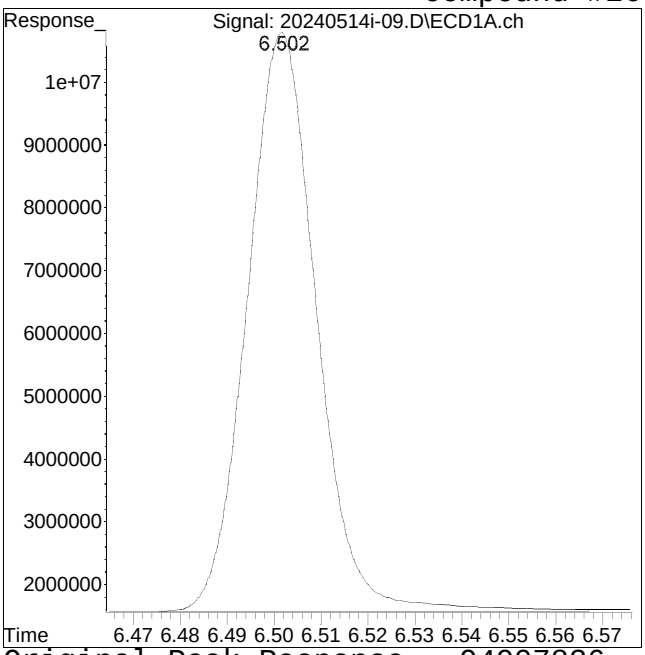
Manual Peak Response = 122218140 M4

M4 = Poor automated baseline construction.

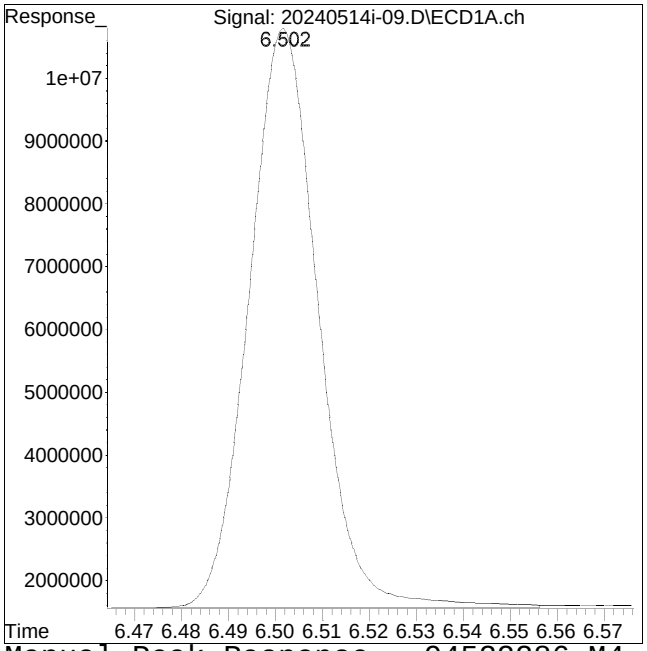
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-09.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:12 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11579 L0.0Quant Date : 5/15/2024 1:12 pm

Compound #26: Endrin Ketone



Original Peak Response = 94907836



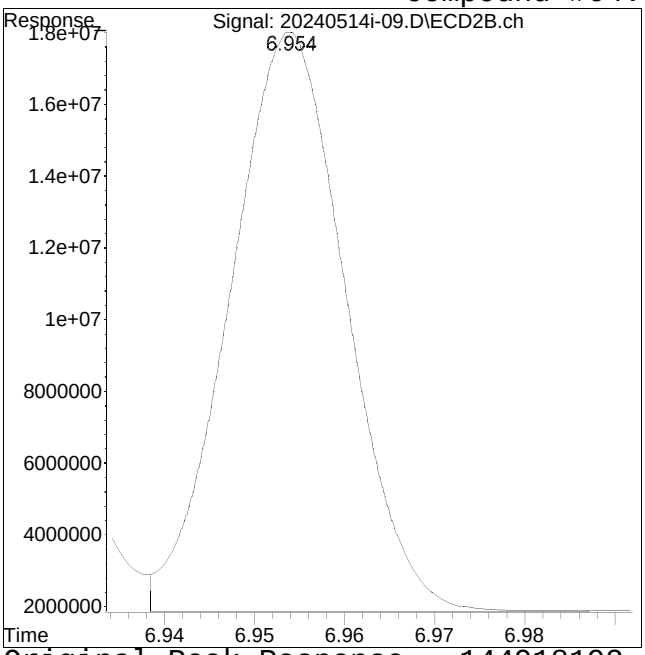
Manual Peak Response = 94522286 M4

M4 = Poor automated baseline construction.

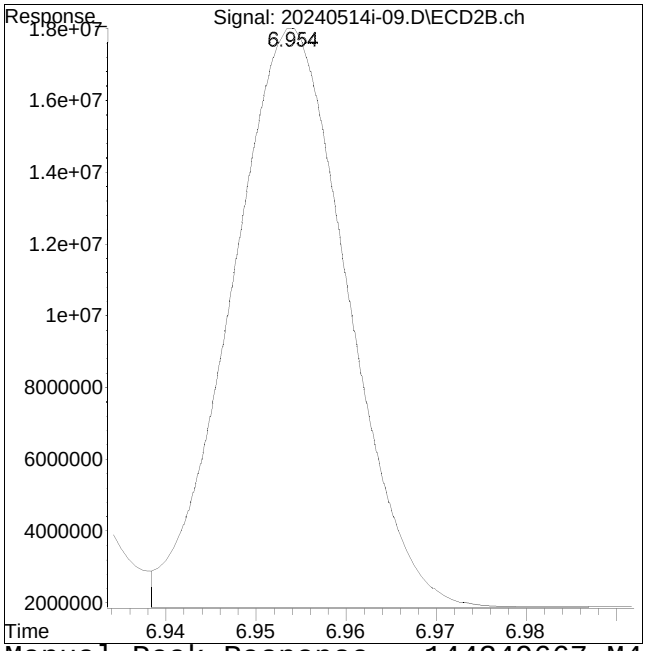
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-09.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:12 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11579 L0.0Quant Date : 5/15/2024 1:12 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 144918192



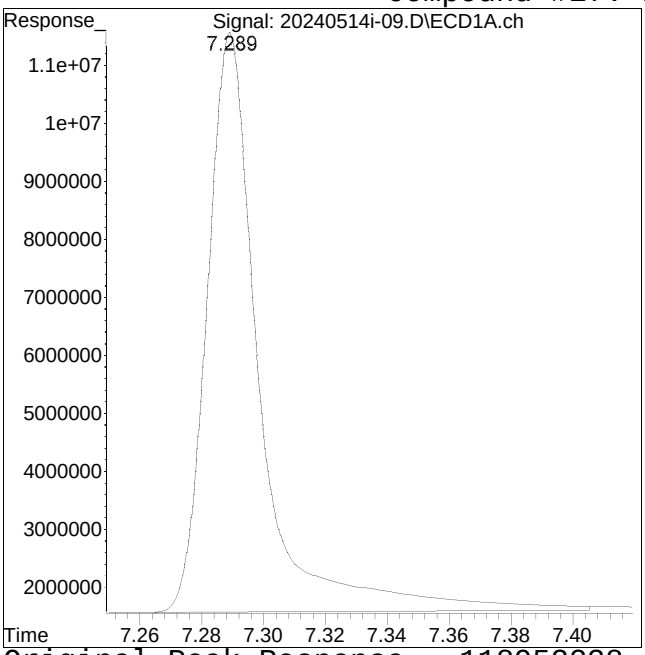
Manual Peak Response = 144349667 M4

M4 = Poor automated baseline construction.

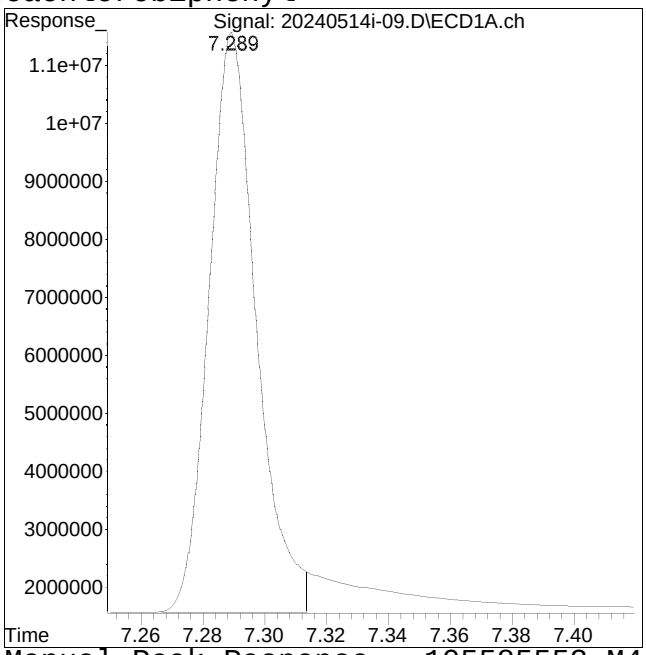
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-09.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:12 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11579 L0.0Quant Date : 5/15/2024 1:12 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 118952238

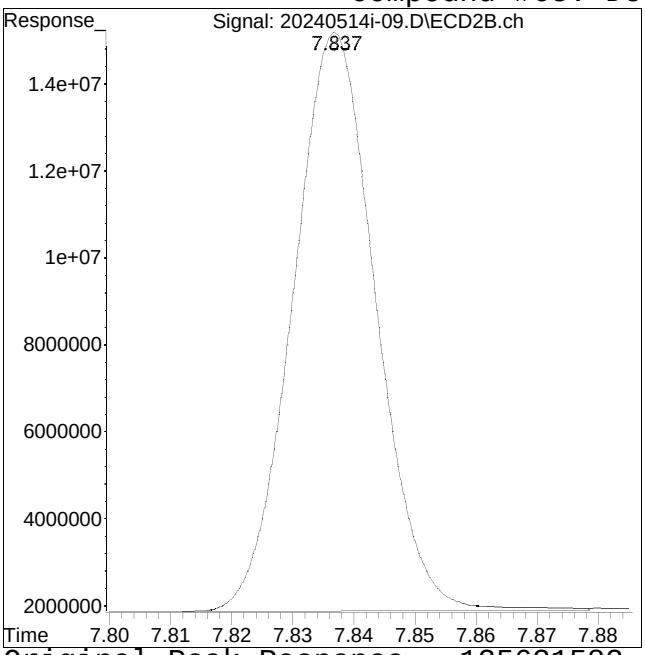


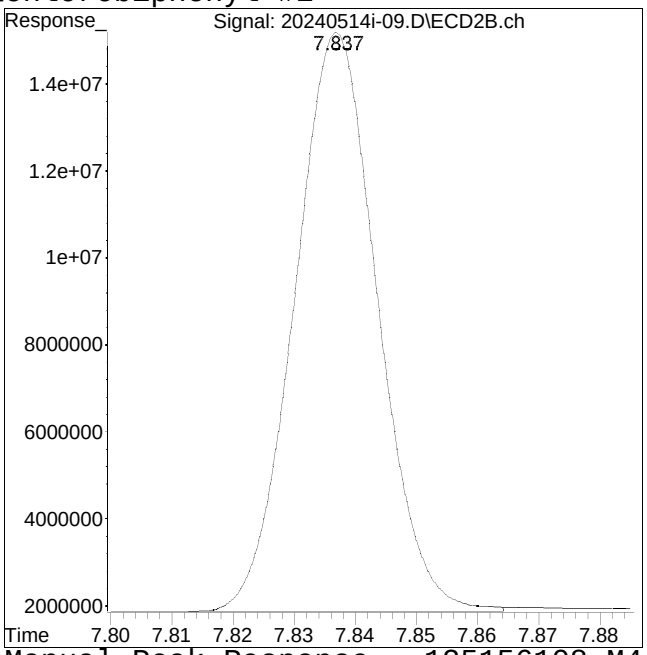
Manual Peak Response = 105585553 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-09.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:12 pm Instrument : PEST 20
Sample : il8pest,42e,,pp 11579 L0.0Quant Date : 5/15/2024 1:12 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 125631582 Manual Peak Response = 125156108 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-10.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 06:24 pm
Operator : pest20:peg
Sample : il9pest,42e,,pp 11578 L0.1 (Sig #1); il9pest,42e,,pp 11565 L0.1 (Sig #2)
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 15 13:29:44 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Wed May 15 13:29:34 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.933	1.972	52719805	70151453	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.406	2.576	215.8E6	284.5E6	99.641	99.742
	Spiked Amount	50.000	Range 30 - 150		Recovery =	199.28%#	199.48%#
27) s	Decachlorobi	7.289	7.836	203.2E6	239.3E6	97.296M4	96.949M4
	Spiked Amount	50.000	Range 30 - 150		Recovery =	194.59%#	193.90%#
	Target Compounds						
3)	Hexachlorobe	2.675	2.954	220.1E6	289.6E6	98.665M3	98.953
4)	alpha-BHC	2.798	3.068	281.1E6	379.8E6	101.047M4	101.260M4
5)	gamma-BHC (l	3.043	3.391	255.2E6	345.7E6	100.467M4	100.762M4
6)	beta-BHC	3.112	3.466	116.9E6	158.5E6	98.804M4	99.042M4
7)	delta-BHC	3.262	3.761	244.0E6	349.3E6	102.424M4	101.589M4
8)	Heptachlor	3.450	3.831	244.3E6	319.5E6	99.780M4	100.058M4
9)	Aldrin	3.728	4.179	252.1E6	316.5E6	100.439M4	100.737M4
10)	Alachlor	3.869	4.057	33525097	44977004	96.548M4	96.901
11)	Chlorpyrifos	3.972	4.438	103.9E6	149.8E6	97.854M4	97.356

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-10.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 06:24 pm
Operator : pest20:peg
Sample : il9pest,42e,,pp 11578 L0.1 (Sig #1); il9pest,42e,,pp 11565 L0.1 (Sig #2)
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 15 13:29:44 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Wed May 15 13:29:34 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)		Heptachlor E	4.339	4.841	231.3E6	301.3E6	99.047M4	99.828
13)		gamma-Chlord	4.476	5.059	213.8E6	267.0E6	99.896M4	99.891M4
14)		alpha-Chlord	4.624	5.218	241.1E6	297.7E6	99.376M4	99.789M4
15)		4,4'-DDE	4.729	5.401	238.8E6	305.4E6	101.141M4	100.235M4
16)		Endosulfan I	4.773	5.276	223.6E6	281.7E6	98.755M4	100.241M4
17)		Dieldrin	5.042	5.554	235.8E6	295.4E6	100.095M4	100.270M4
18)		Endrin	5.282	5.841	235.3E6	299.5E6	99.803M4	100.050M4
19)		4,4'-DDD	5.378	5.952	180.7E6	246.6E6	100.816M4	100.042M4
20)		Endosulfan I	5.506	6.033	200.4E6	264.2E6	99.777M4	99.633M4
21)		4,4'-DDT	5.651	6.220	186.4E6	264.0E6	100.311M4	99.645M3
22)		Endrin Aldeh	5.900	6.319	165.6E6	223.9E6	101.456M4	100.226M4
23)		Methoxychlor	6.110	6.770	95841568	142.1E6	98.056M4	97.604M4
24)		Mirex	6.183	6.922	178.7E6	214.8E6	96.622M4	97.272
25)		Endosulfan S	6.277	6.543	171.3E6	244.6E6	101.277M4	99.226M4
26)		Endrin Keton	6.501	6.954	193.1E6	285.4E6	100.705M4	99.018M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-10.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 06:24 pm
Operator : pest20:peg
Sample : il9pest,42e,,pp 11578 L0.1 (Sig #1); il9pest,42e,,pp 11565 L0.1 (Sig #2)
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 15 13:29:44 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Wed May 15 13:29:34 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

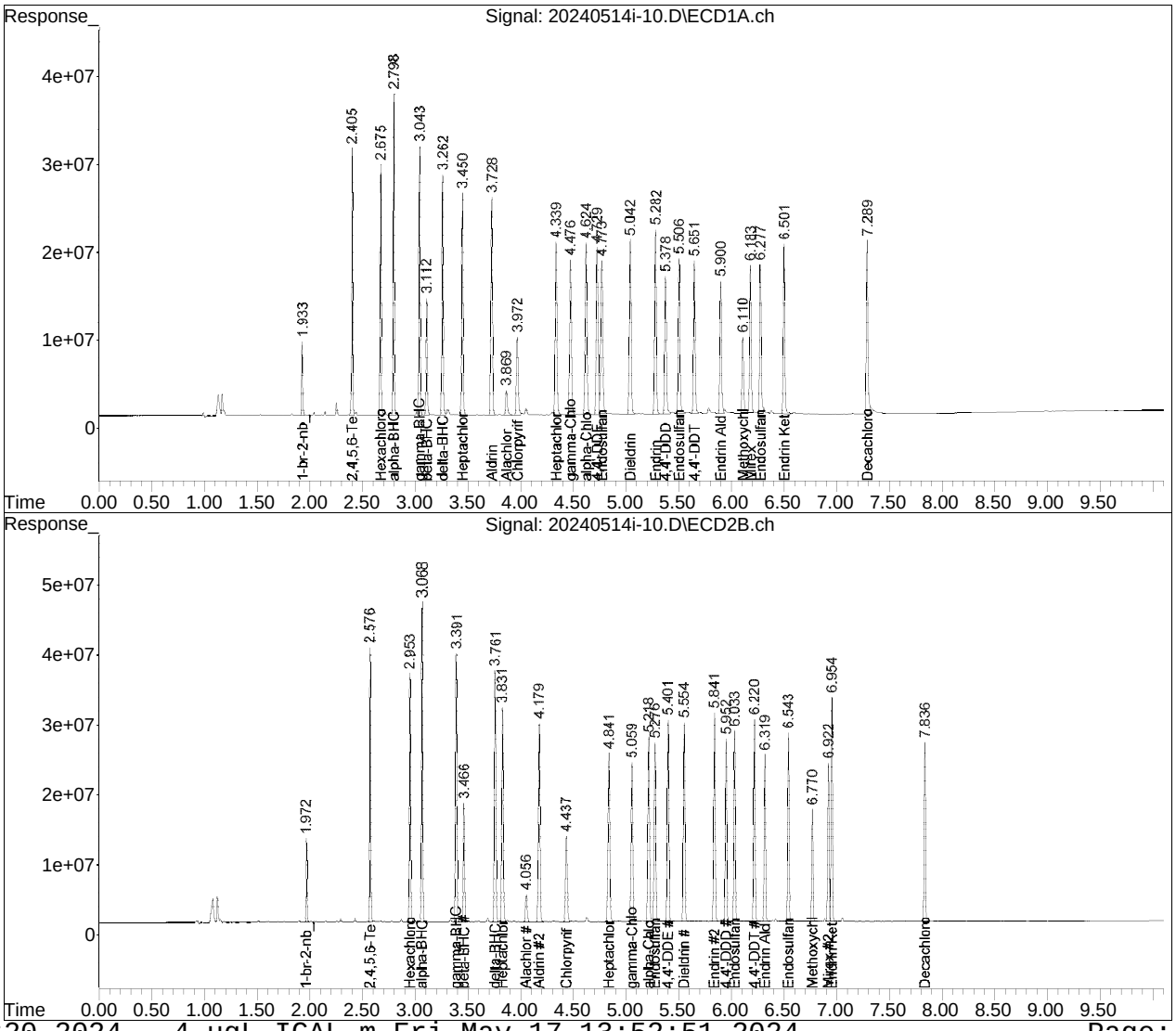
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-10.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 06:24 pm
Operator : pest20:peg
Sample : il9pest,42e,,pp 11578 L0.1 (Sig #1); il9pest,42e,,pp 11565 L0.1 (S
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 15 13:29:44 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Wed May 15 13:29:34 2024
Response via : Initial Calibration
Integrator: ChemStation

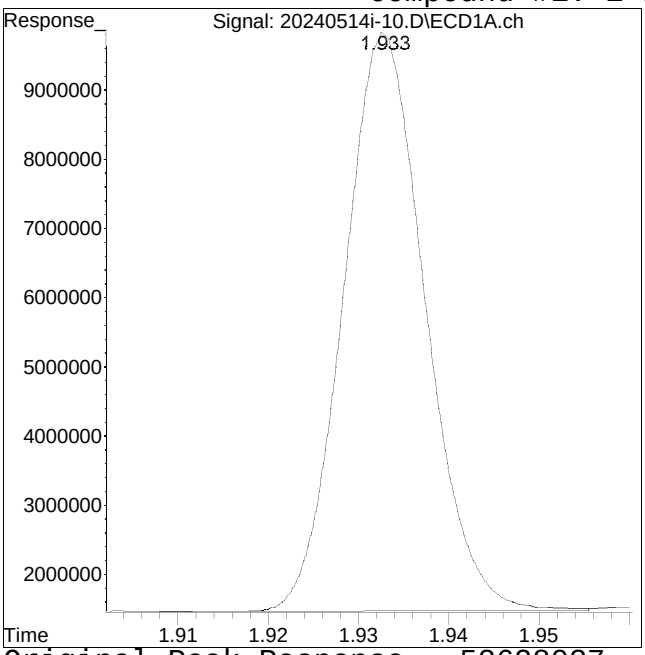
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



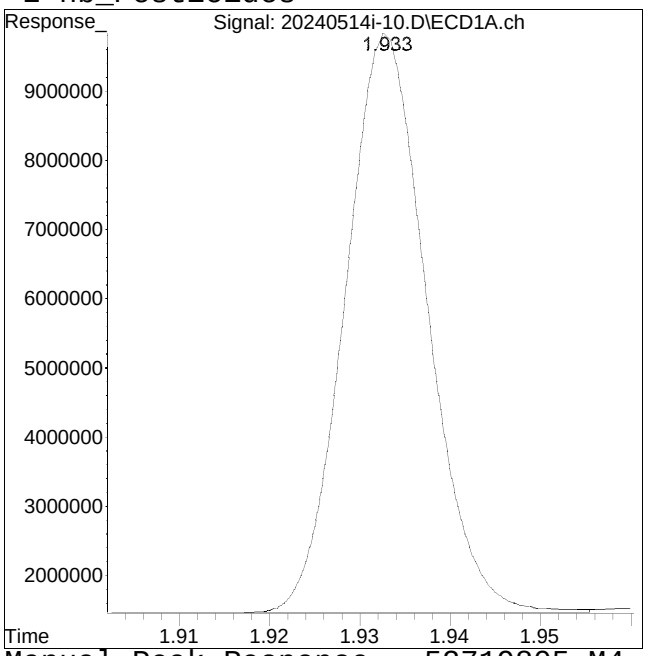
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-10.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:24 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11578 L0.1Quant Date : 5/15/2024 1:29 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 52628037



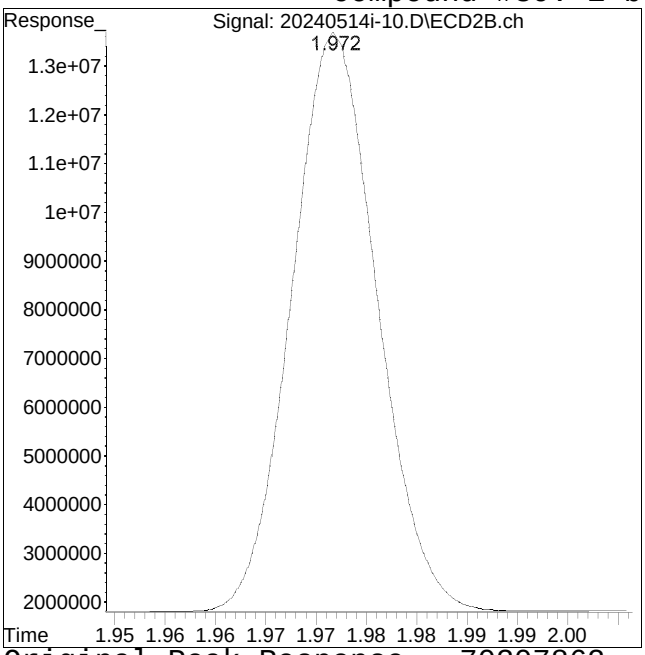
Manual Peak Response = 52719805 M4

M4 = Poor automated baseline construction.

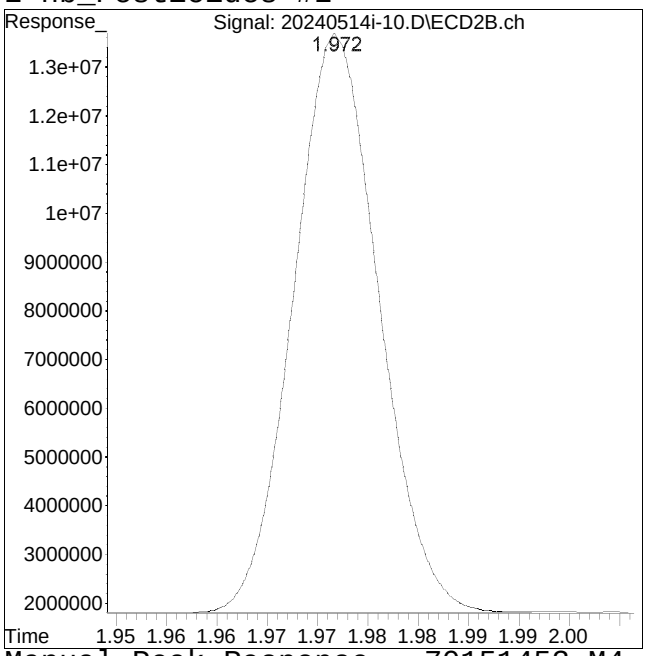
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-10.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:24 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11578 L0.1Quant Date : 5/15/2024 1:29 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 70307862



Manual Peak Response = 70151453 M4

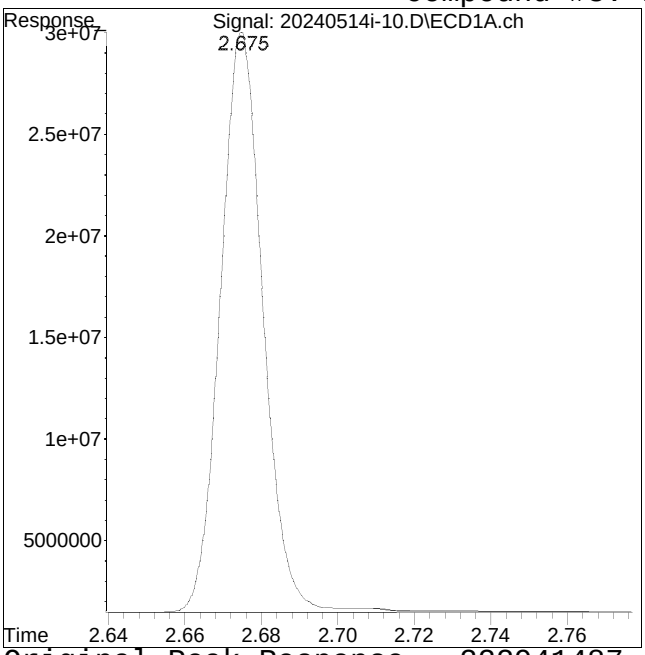
M4 = Poor automated baseline construction.

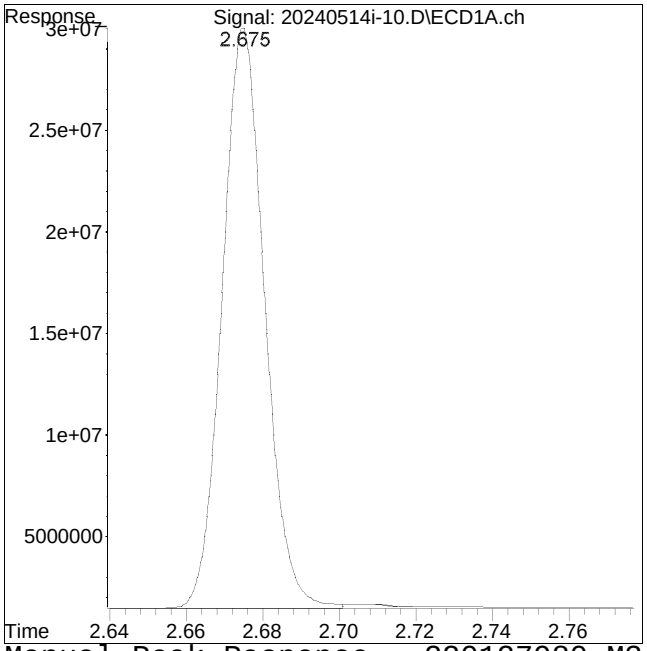
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-10.D
Date Inj'd : 5/14/2024 6:24 pm
Sample : il9pest,42e,,pp 11578 L0.1

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/15/2024 1:29 pm

Compound #3: Hexachlorobenzene





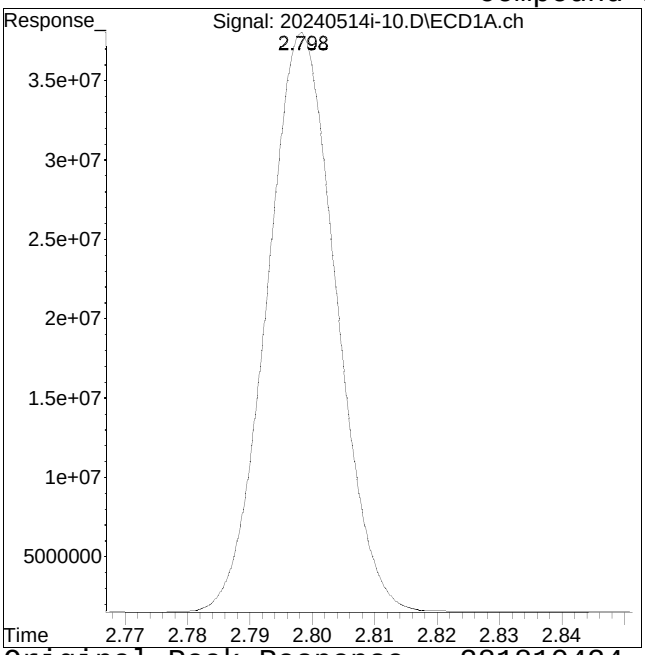
Original Peak Response = 222941487 Manual Peak Response = 220127980 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

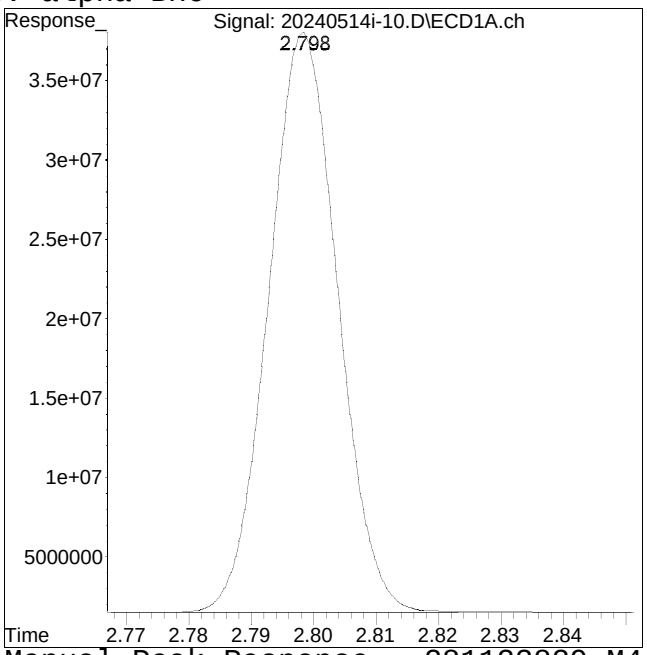
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-10.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:24 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11578 L0.1Quant Date : 5/15/2024 1:29 pm

Compound #4: alpha-BHC



Original Peak Response = 281810424



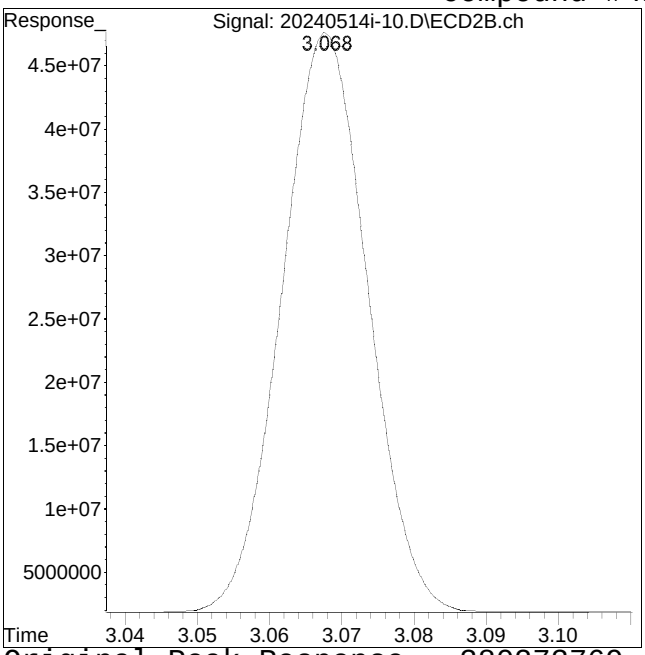
Manual Peak Response = 281123829 M4

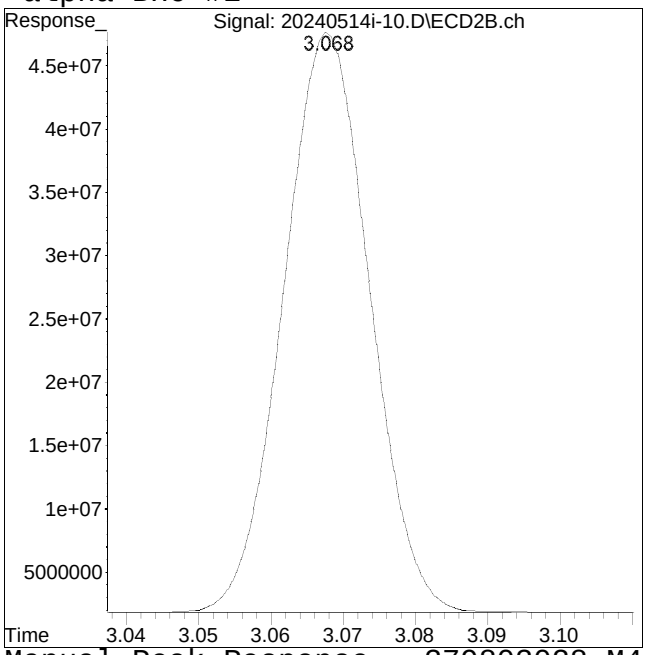
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-10.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:24 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11578 L0.1Quant Date : 5/15/2024 1:29 pm

Compound #42: alpha-BHC #2





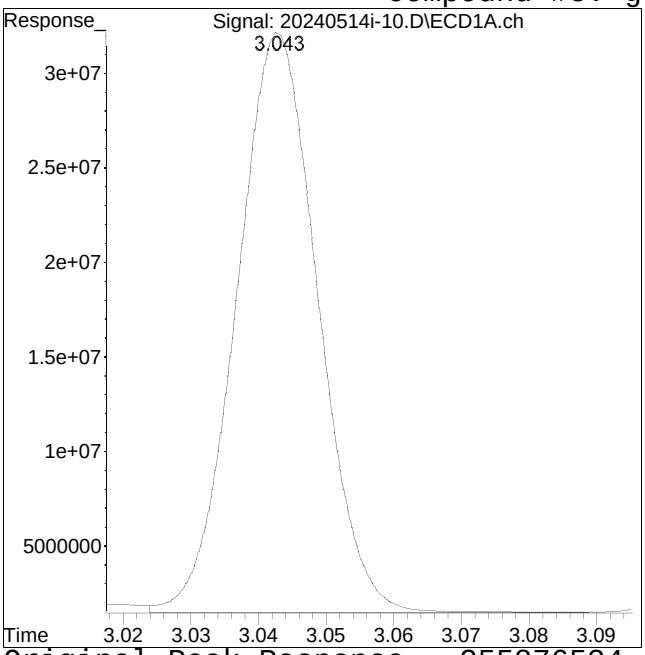
Original Peak Response = 380273769 Manual Peak Response = 379803028 M4
M4 = Poor automated baseline construction.

Manual Integration Report

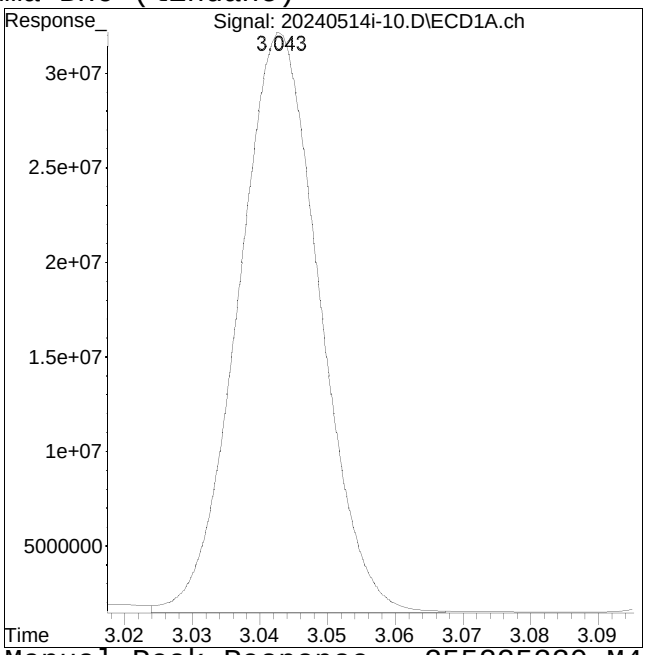
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-10.D
Date Inj'd : 5/14/2024 6:24 pm
Sample : il9pest,42e,,pp 11578 L0.1

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/15/2024 1:29 pm

Compound #5: gamma-BHC (lindane)



Original Peak Response = 255876524



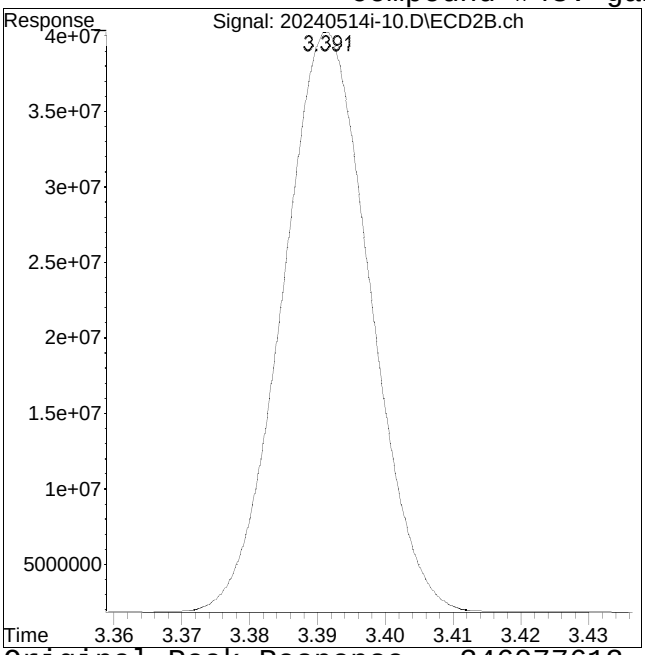
Manual Peak Response = 255225330 M4

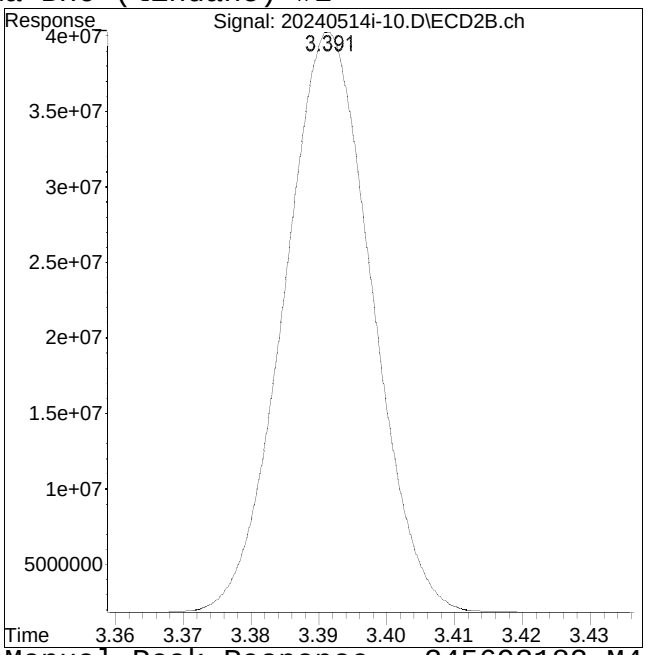
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-10.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:24 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11578 L0.1Quant Date : 5/15/2024 1:29 pm

Compound #43: gamma-BHC (lindane) #2





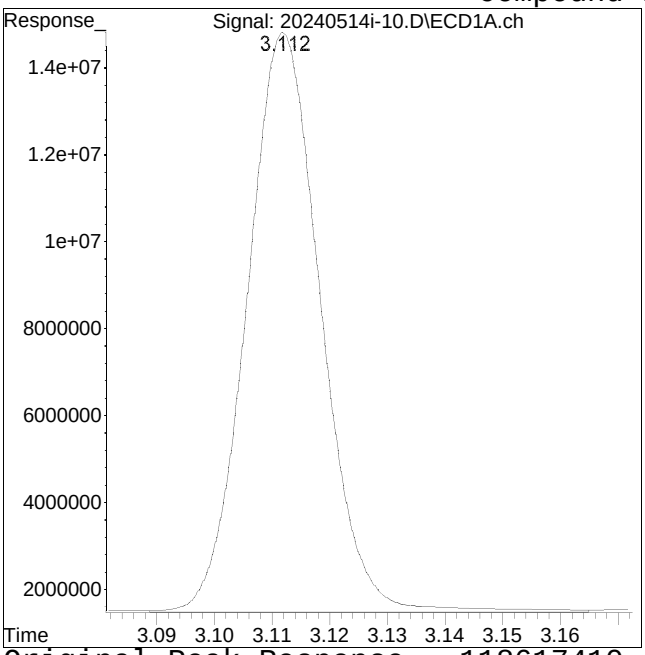
Original Peak Response = 346077612 Manual Peak Response = 345693182 M4
M4 = Poor automated baseline construction.

Manual Integration Report

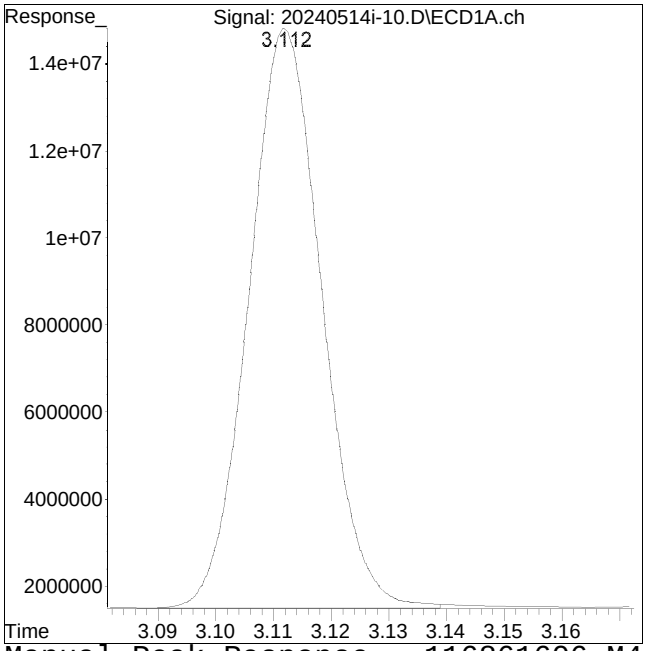
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-10.D
Date Inj'd : 5/14/2024 6:24 pm
Sample : il9pest,42e,,pp 11578 L0.1

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/15/2024 1:29 pm

Compound #6: beta-BHC



Original Peak Response = 118617410



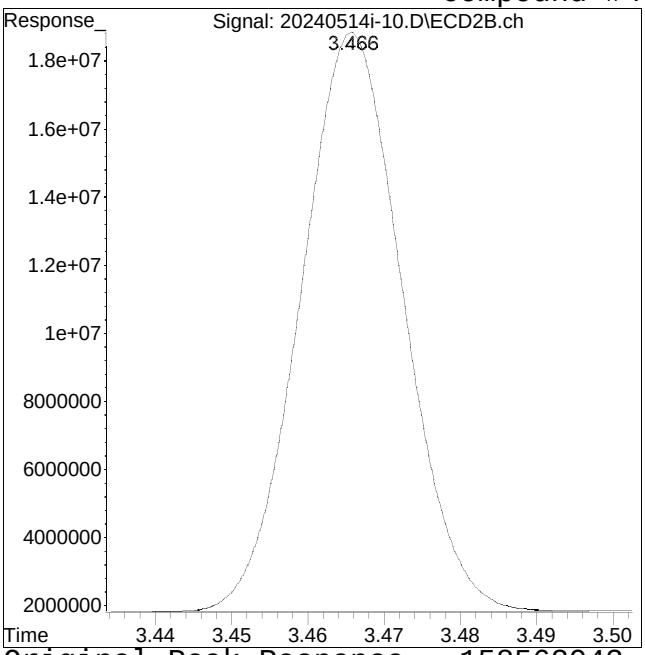
Manual Peak Response = 116861606 M4

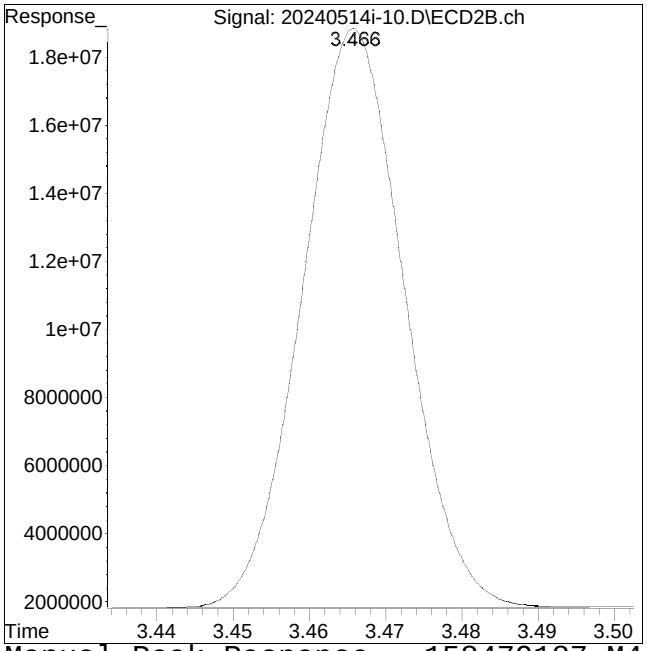
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-10.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:24 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11578 L0.1Quant Date : 5/15/2024 1:29 pm

Compound #44: beta-BHC #2



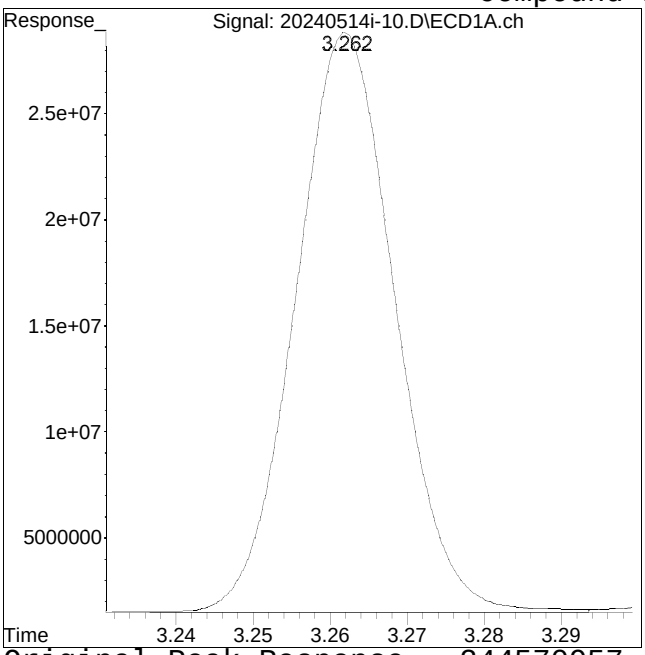


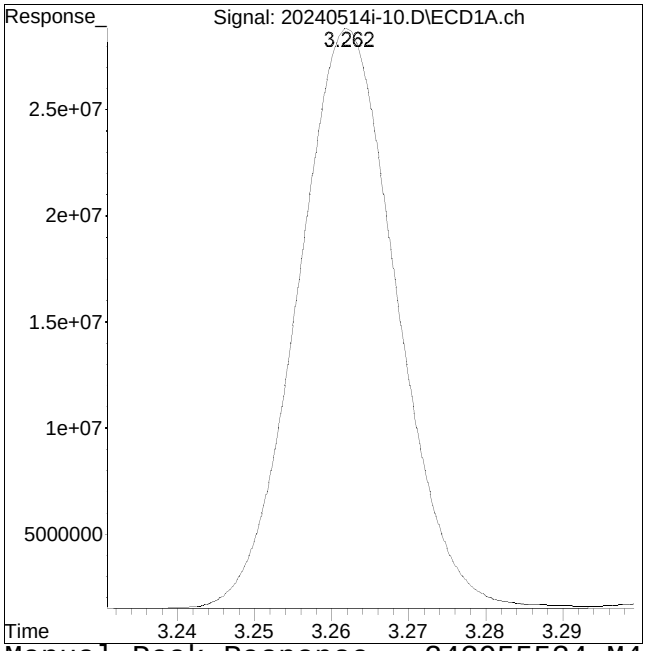
Original Peak Response = 158562943 Manual Peak Response = 158479187 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-10.D
Date Inj'd : 5/14/2024 6:24 pm
Sample : il9pest,42e,,pp 11578 L0.1
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/15/2024 1:29 pm

Compound #7: delta-BHC



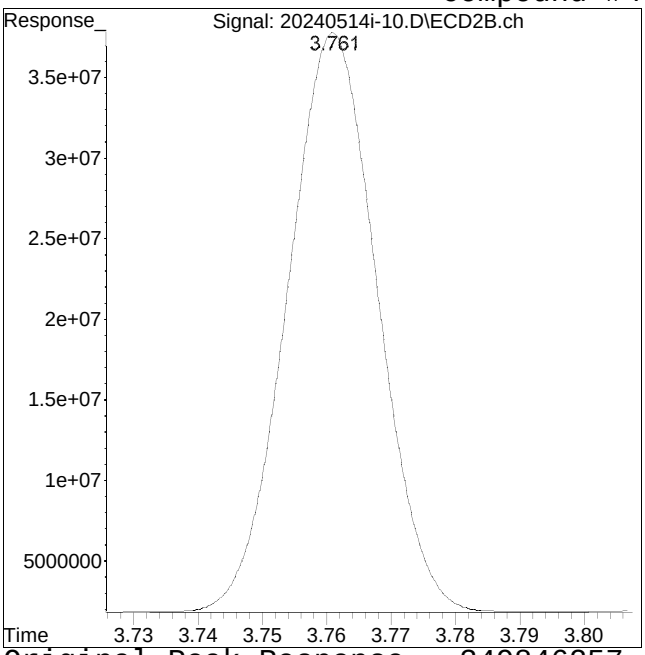


Original Peak Response = 244570957 Manual Peak Response = 243955534 M4
M4 = Poor automated baseline construction.

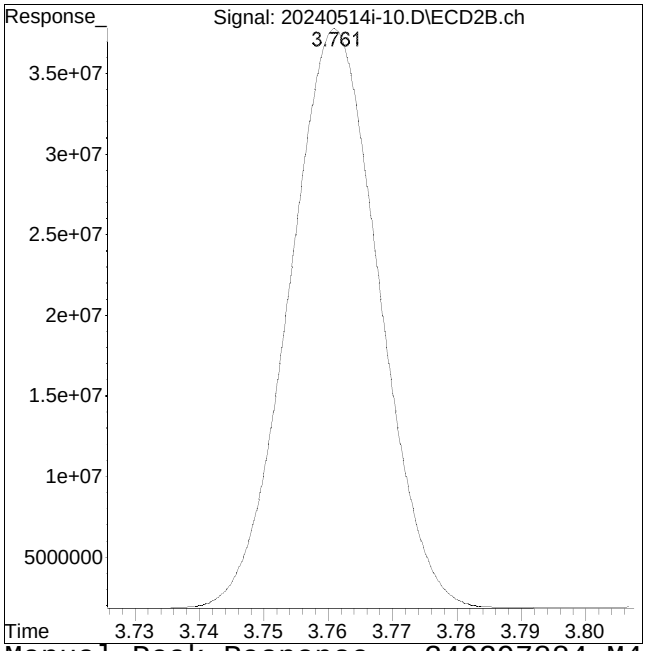
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-10.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:24 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11578 L0.1Quant Date : 5/15/2024 1:29 pm

Compound #45: delta-BHC #2



Original Peak Response = 349846257

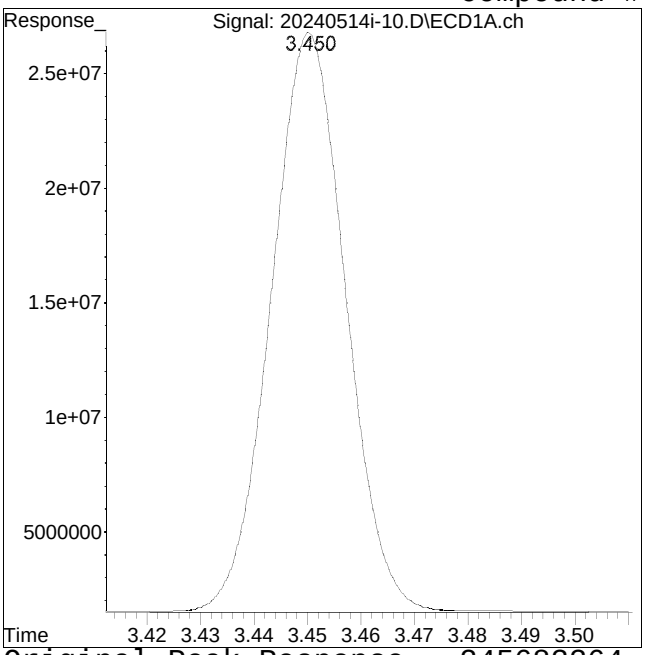


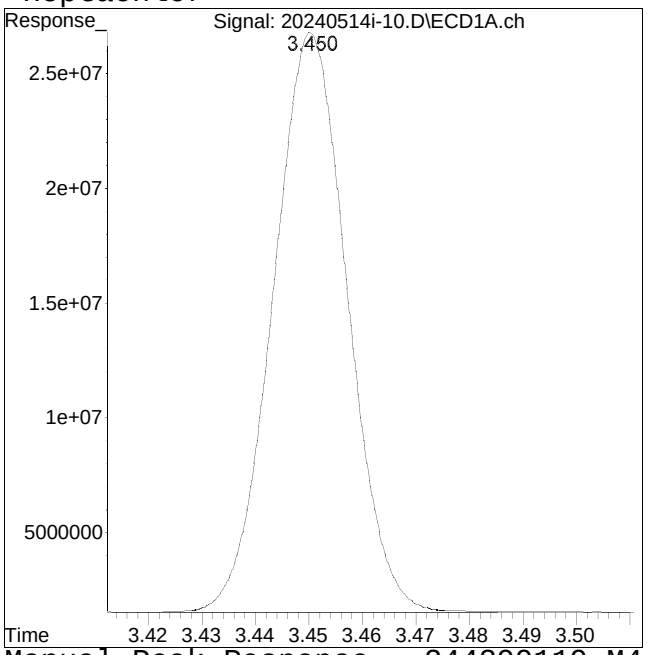
Manual Peak Response = 349297884 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-10.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:24 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11578 L0.1Quant Date : 5/15/2024 1:29 pm

Compound #8: Heptachlor





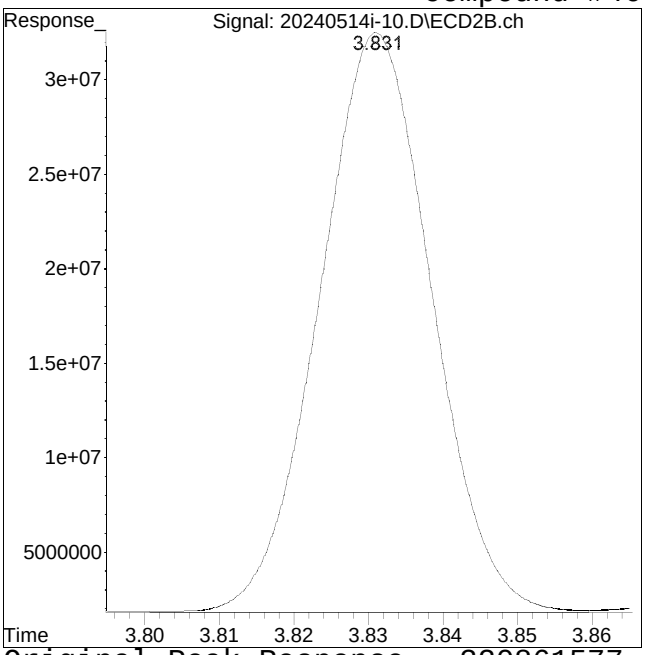
Original Peak Response = 245683364 Manual Peak Response = 244299119 M4
M4 = Poor automated baseline construction.

Manual Integration Report

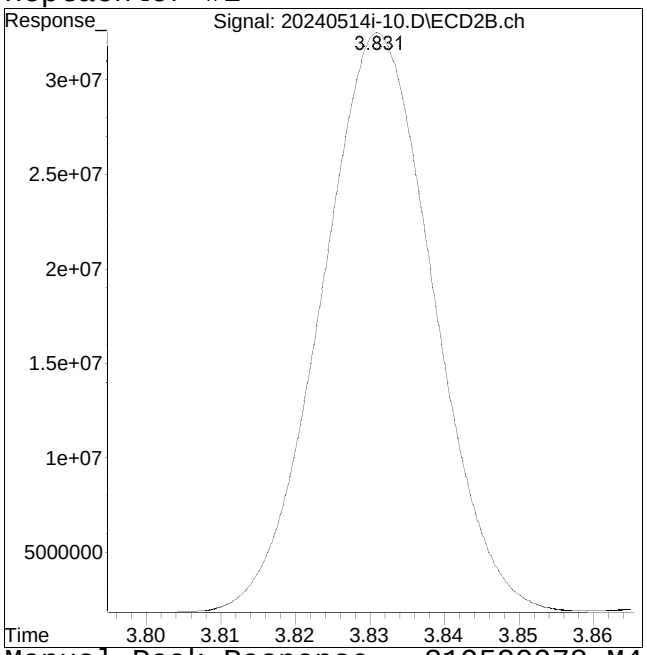
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-10.D
Date Inj'd : 5/14/2024 6:24 pm
Sample : il9pest,42e,,pp 11578 L0.1

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/15/2024 1:29 pm

Compound #46: Heptachlor #2



Original Peak Response = 320861577



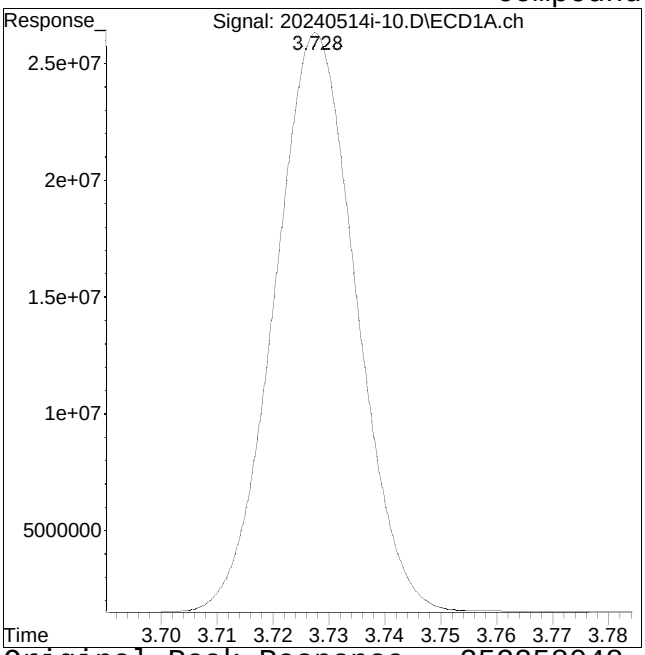
Manual Peak Response = 319520978 M4

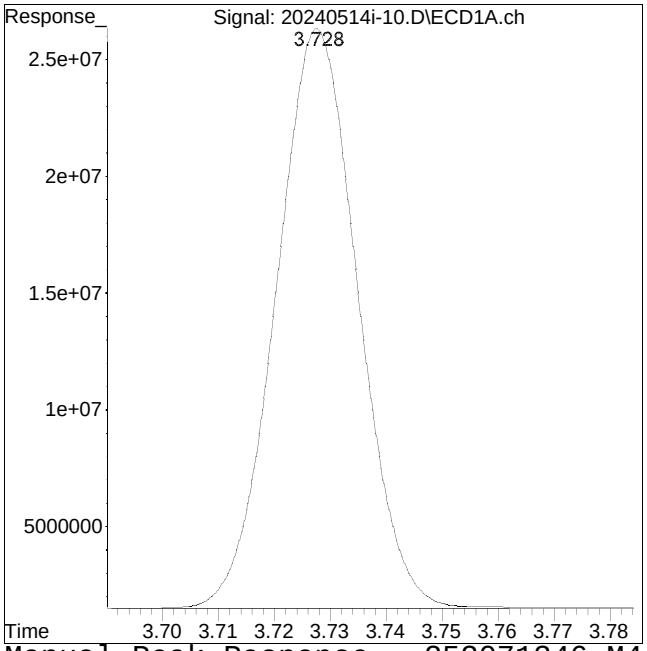
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-10.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:24 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11578 L0.1Quant Date : 5/15/2024 1:29 pm

Compound #9: Aldrin



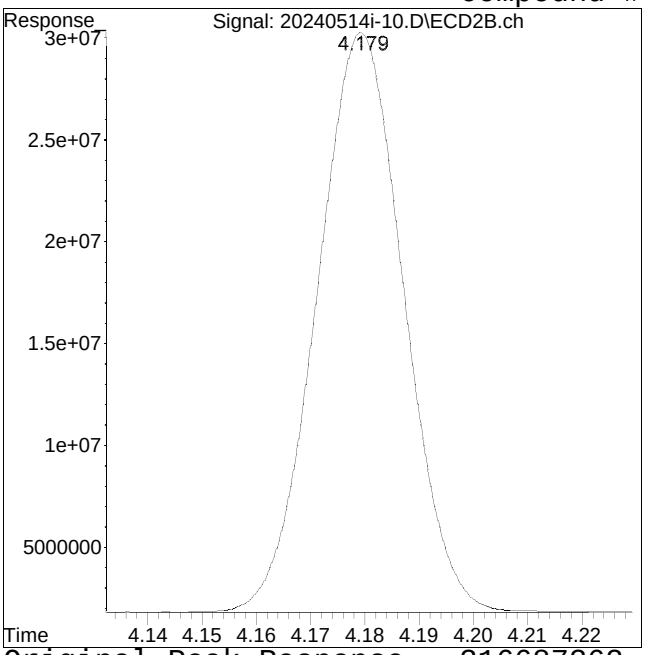


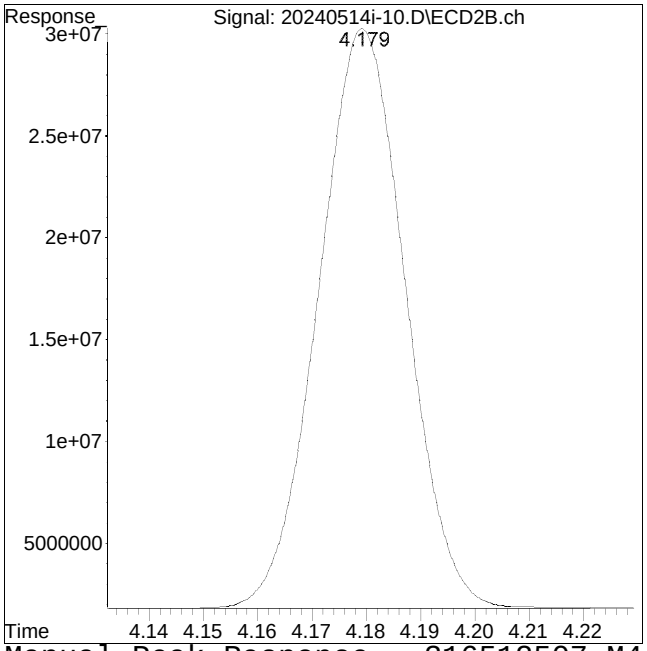
Original Peak Response = 252258048 Manual Peak Response = 252071346 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-10.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:24 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11578 L0.1Quant Date : 5/15/2024 1:29 pm

Compound #47: Aldrin #2



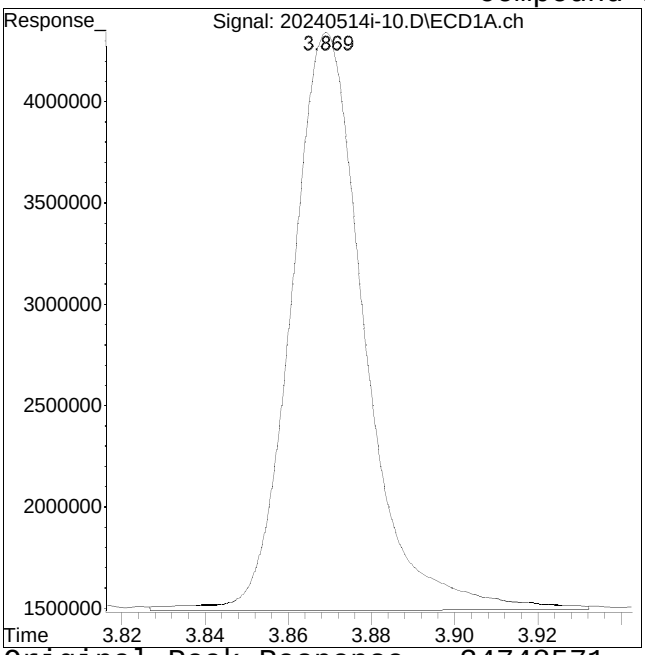


Original Peak Response = 316687362 Manual Peak Response = 316512507 M4
M4 = Poor automated baseline construction.

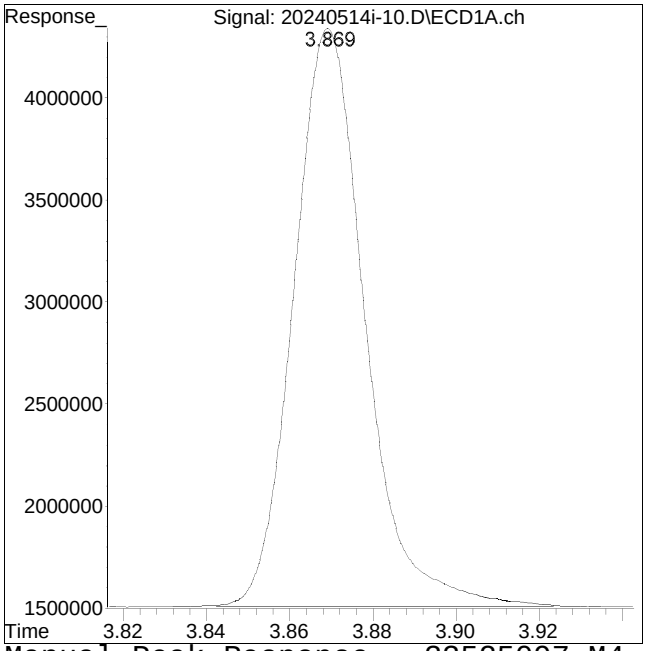
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-10.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:24 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11578 L0.1Quant Date : 5/15/2024 1:29 pm

Compound #10: Alachlor



Original Peak Response = 34748571



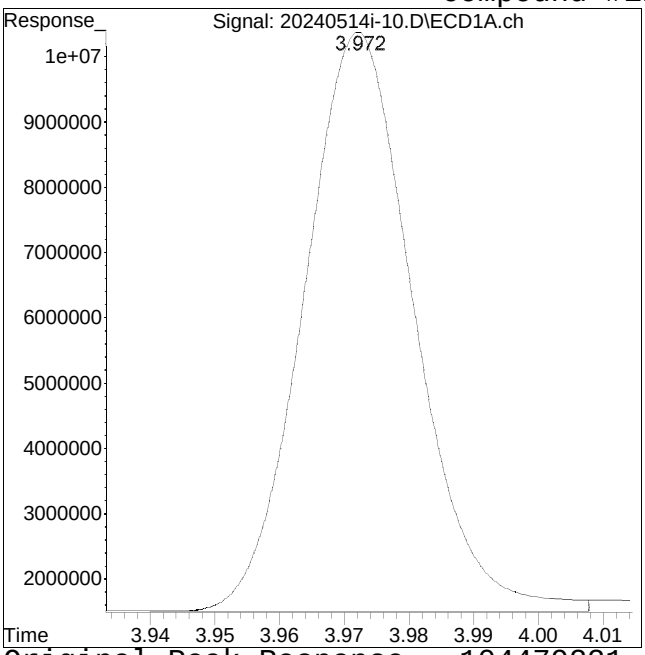
Manual Peak Response = 33525097 M4

M4 = Poor automated baseline construction.

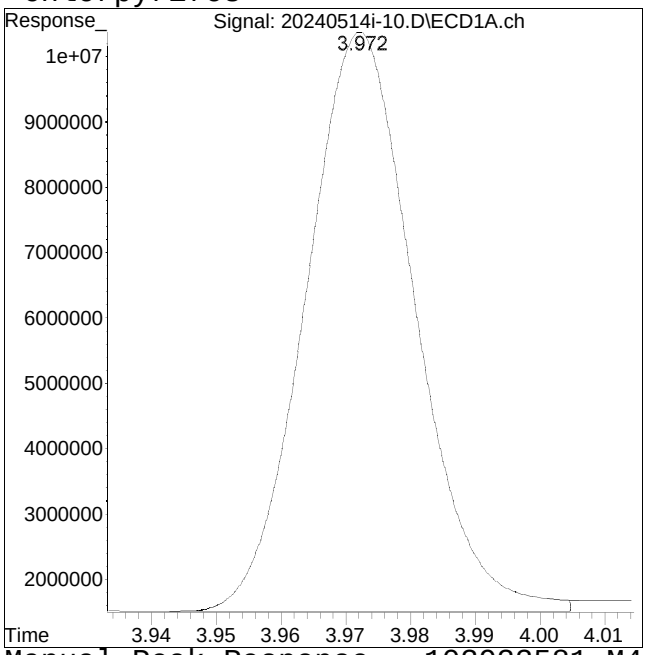
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-10.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:24 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11578 L0.1Quant Date : 5/15/2024 1:29 pm

Compound #11: Chlorpyrifos



Original Peak Response = 104479221



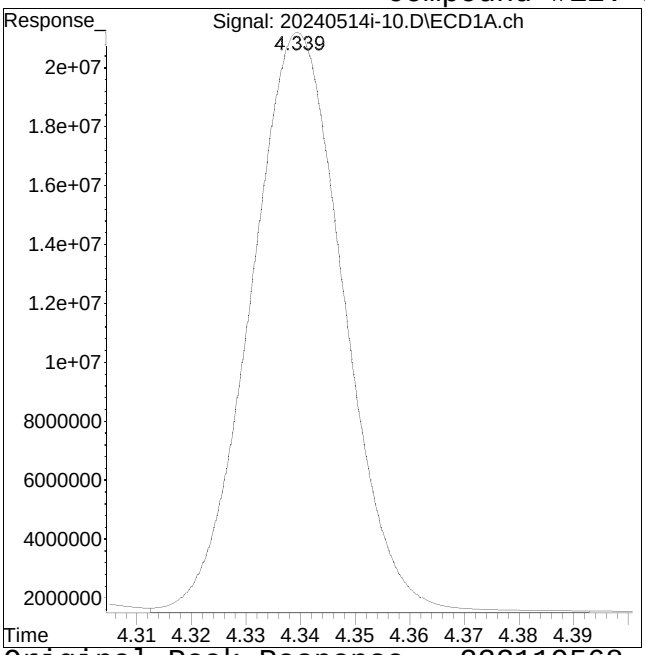
Manual Peak Response = 103933581 M4
M4 = Poor automated baseline construction.

Manual Integration Report

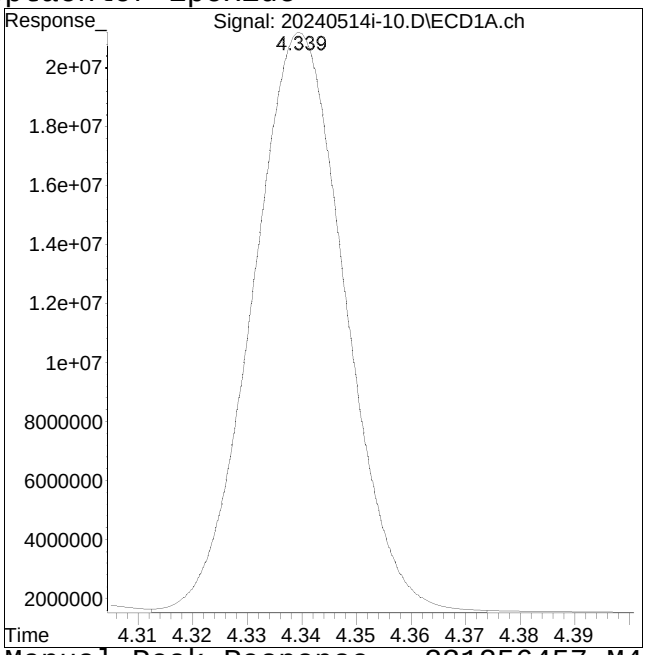
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-10.D
Date Inj'd : 5/14/2024 6:24 pm
Sample : il9pest,42e,,pp 11578 L0.1

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/15/2024 1:29 pm

Compound #12: Heptachlor Epoxide



Original Peak Response = 233119568



Manual Peak Response = 231256457 M4

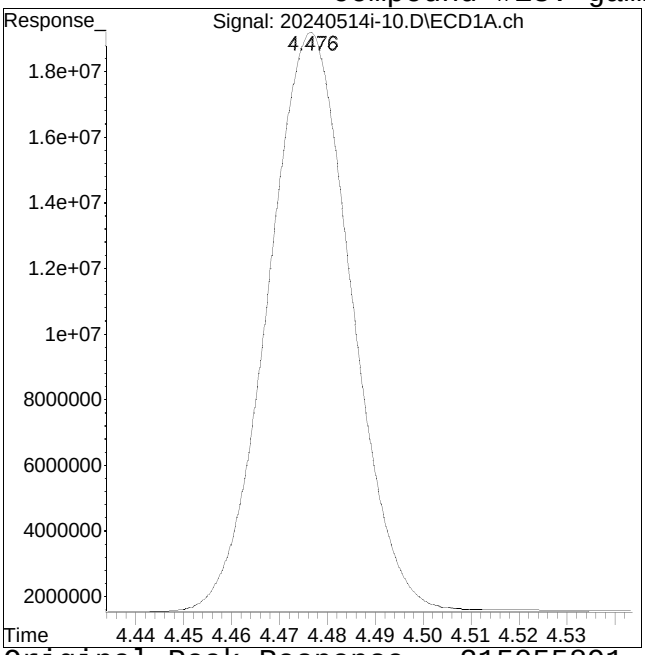
M4 = Poor automated baseline construction.

Manual Integration Report

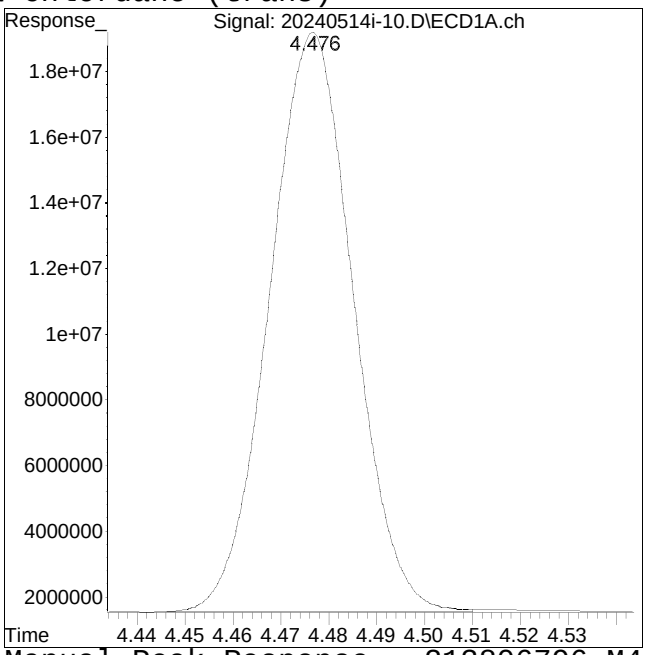
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-10.D
Date Inj'd : 5/14/2024 6:24 pm
Sample : il9pest,42e,,pp 11578 L0.1

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/15/2024 1:29 pm

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 215055891



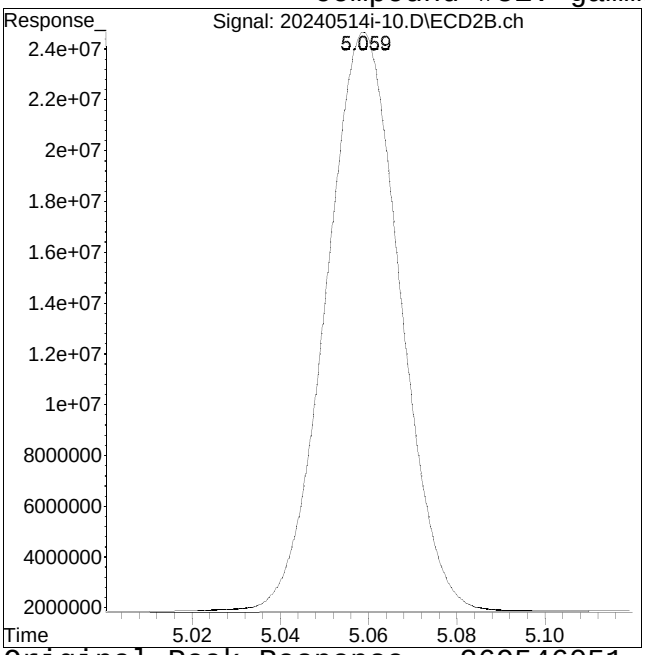
Manual Peak Response = 213806796 M4

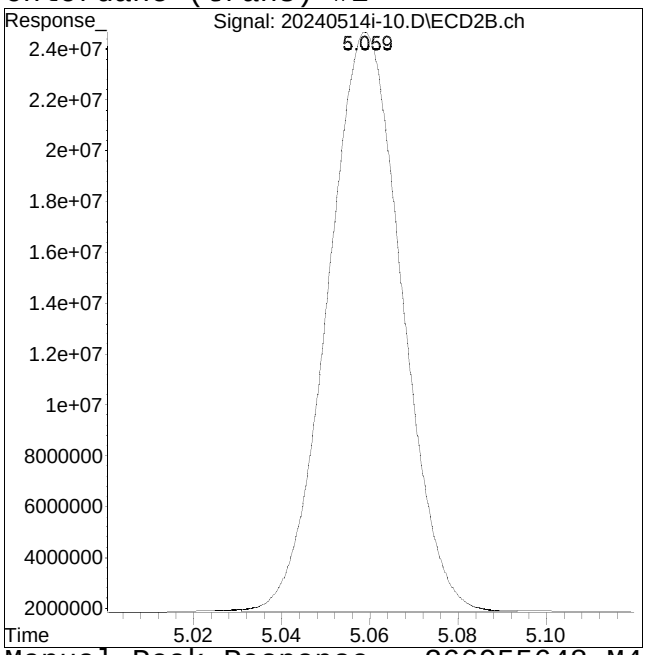
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-10.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:24 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11578 L0.1Quant Date : 5/15/2024 1:29 pm

Compound #51: gamma-Chlordane (trans) #2





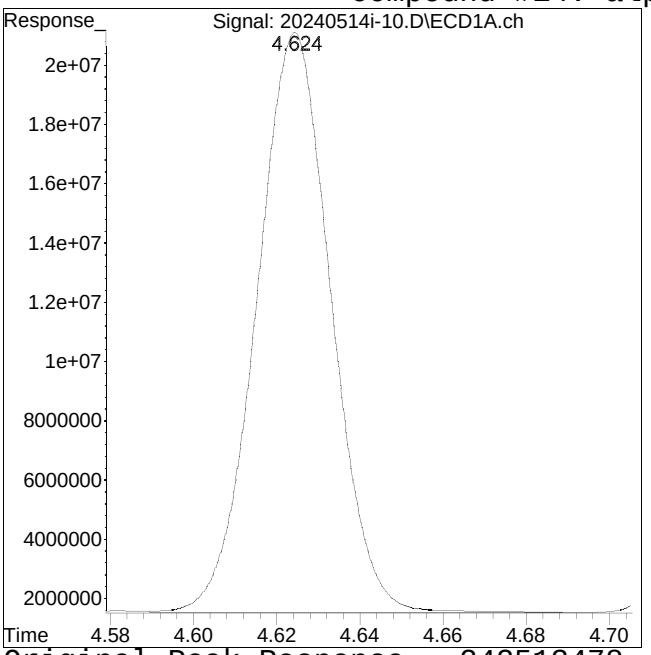
Original Peak Response = 269546051 Manual Peak Response = 266955648 M4
M4 = Poor automated baseline construction.

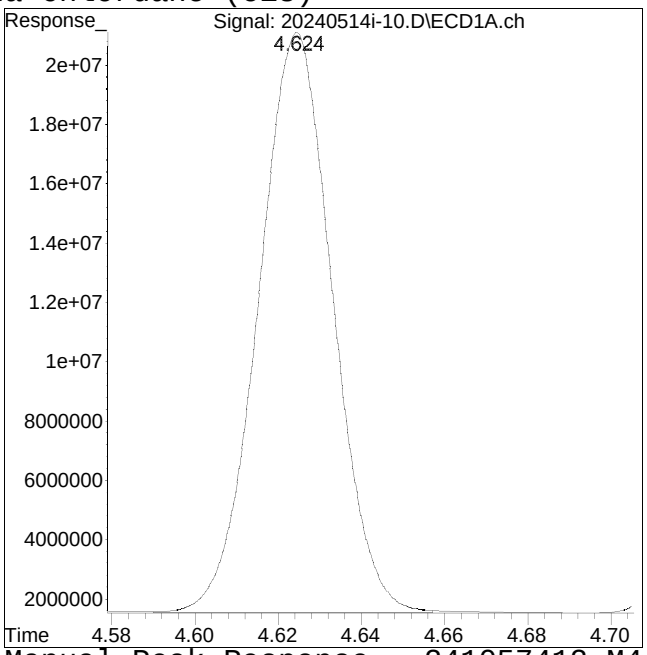
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-10.D
Date Inj'd : 5/14/2024 6:24 pm
Sample : il9pest,42e,,pp 11578 L0.1

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/15/2024 1:29 pm

Compound #14: alpha-Chlordane (cis)



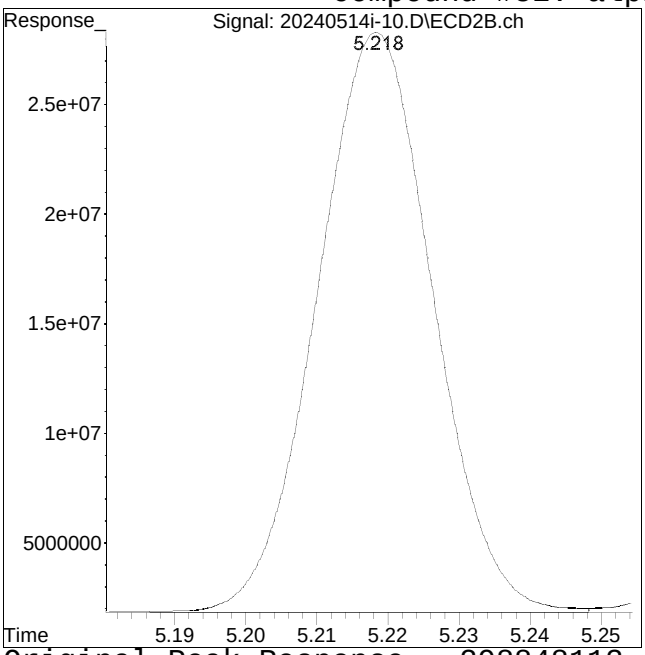


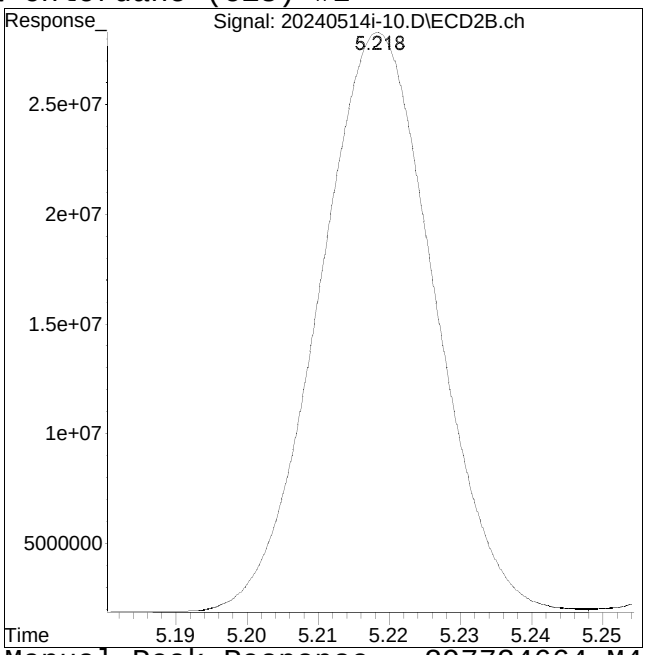
Original Peak Response = 242513478 Manual Peak Response = 241057412 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-10.D
Date Inj'd : 5/14/2024 6:24 pm
Sample : il9pest,42e,,pp 11578 L0.1
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/15/2024 1:29 pm

Compound #52: alpha-Chlordane (cis) #2





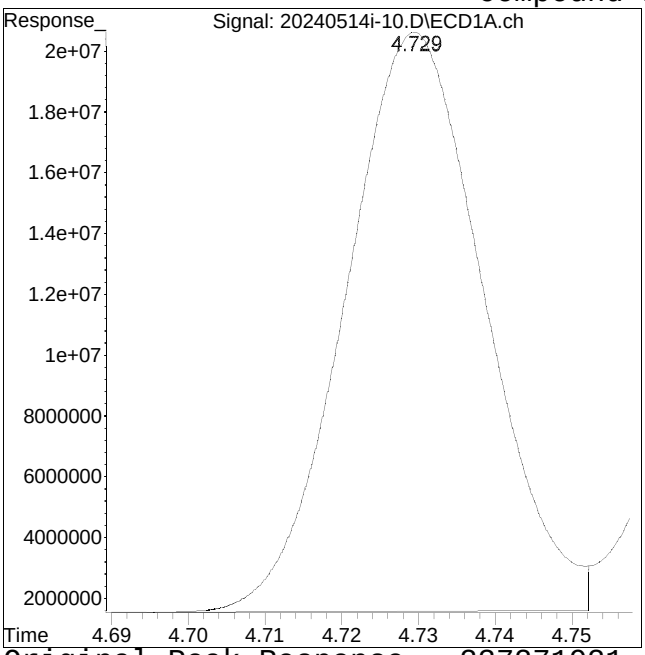
Original Peak Response = 298848113 Manual Peak Response = 297724664 M4
M4 = Poor automated baseline construction.

Manual Integration Report

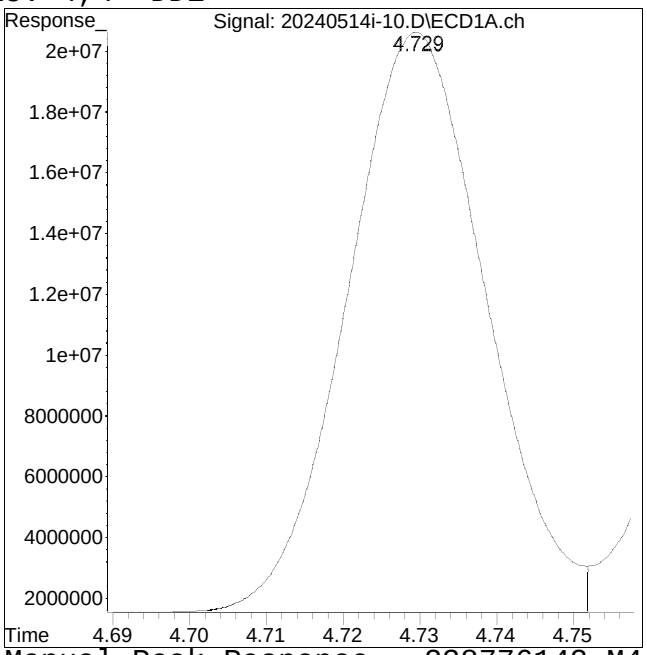
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-10.D
Date Inj'd : 5/14/2024 6:24 pm
Sample : il9pest,42e,,pp 11578 L0.1

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/15/2024 1:29 pm

Compound #15: 4,4'-DDE



Original Peak Response = 237271921



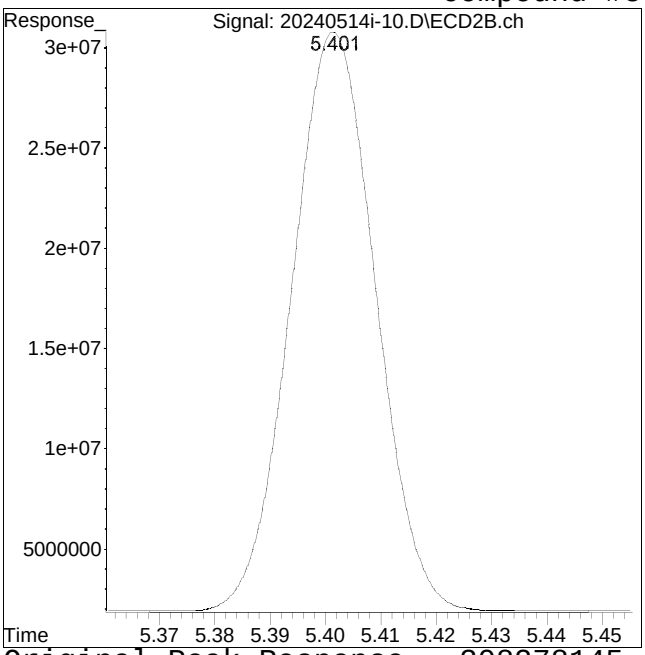
Manual Peak Response = 238776142 M4

M4 = Poor automated baseline construction.

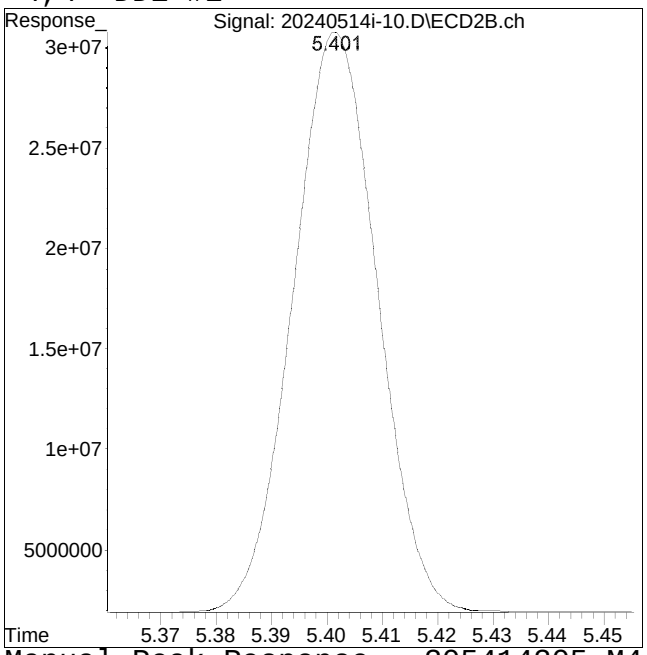
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-10.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:24 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11578 L0.1Quant Date : 5/15/2024 1:29 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 308278145



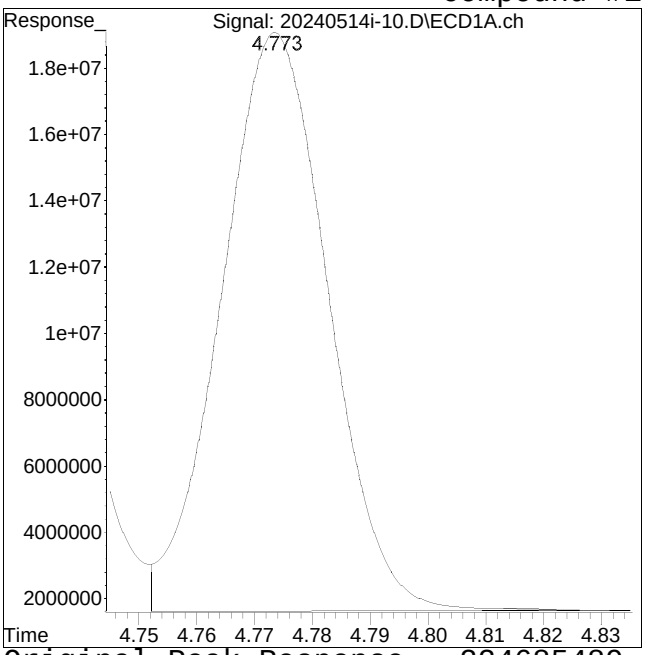
Manual Peak Response = 305414305 M4

M4 = Poor automated baseline construction.

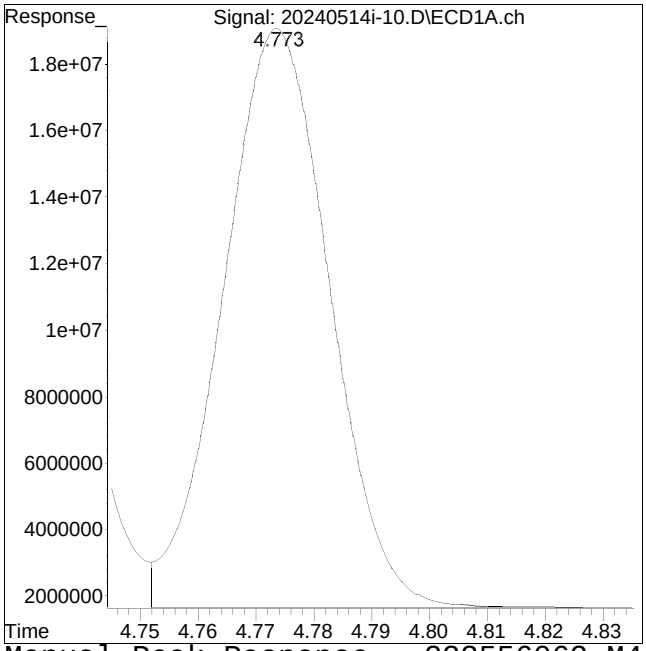
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-10.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:24 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11578 L0.1Quant Date : 5/15/2024 1:29 pm

Compound #16: Endosulfan I



Original Peak Response = 224685489



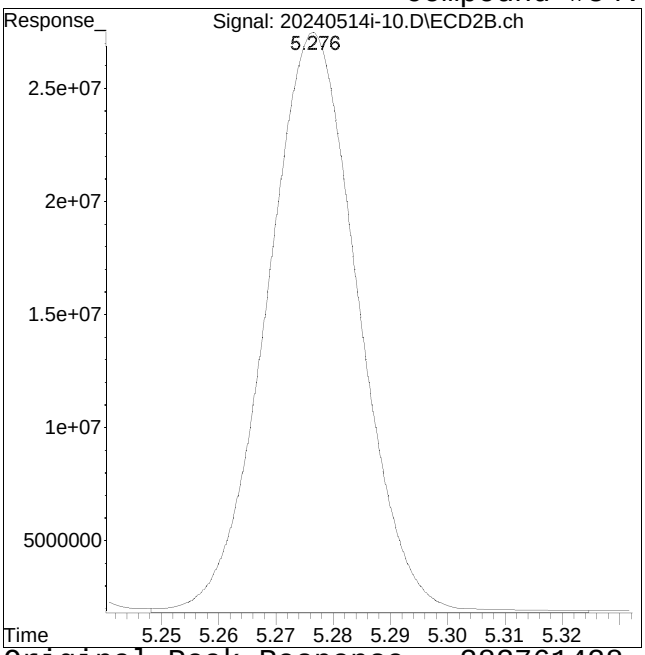
Manual Peak Response = 223556062 M4

M4 = Poor automated baseline construction.

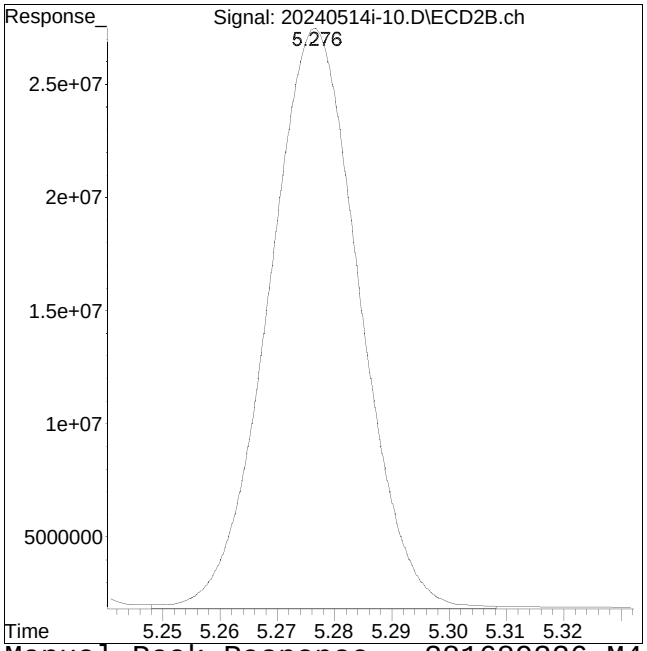
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-10.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:24 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11578 L0.1Quant Date : 5/15/2024 1:29 pm

Compound #54: Endosulfan I #2



Original Peak Response = 283761428



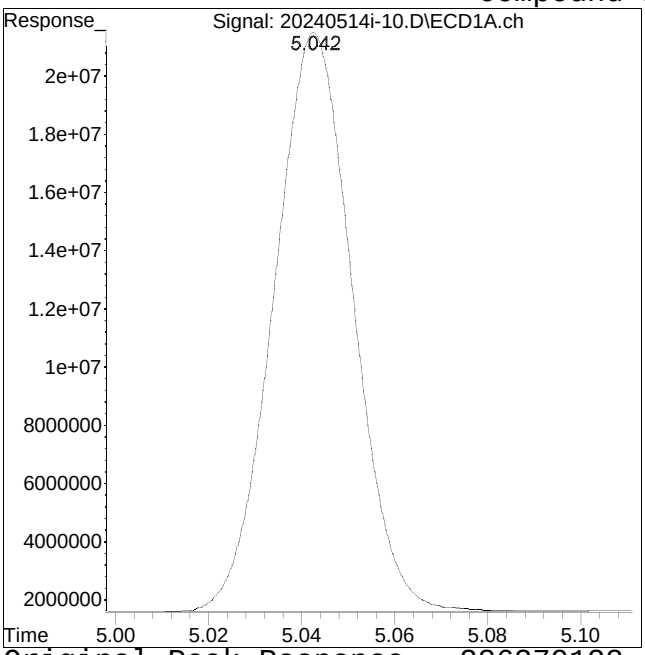
Manual Peak Response = 281689326 M4

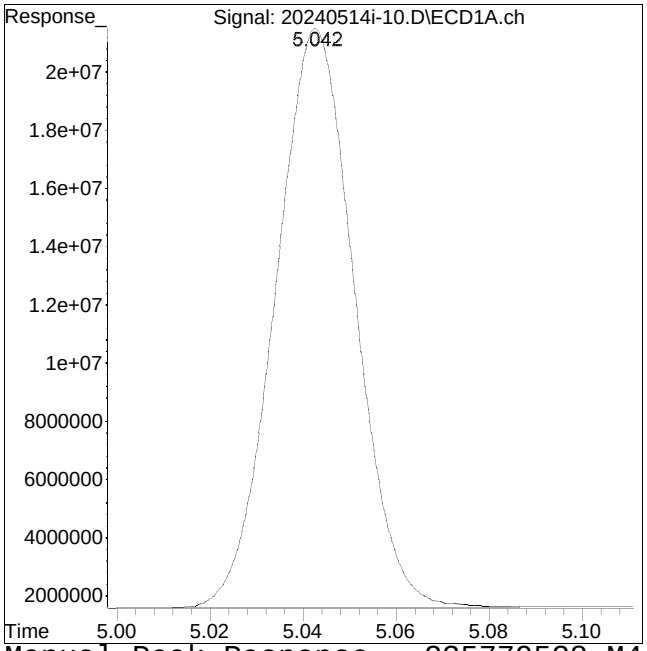
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-10.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:24 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11578 L0.1Quant Date : 5/15/2024 1:29 pm

Compound #17: Dieldrin





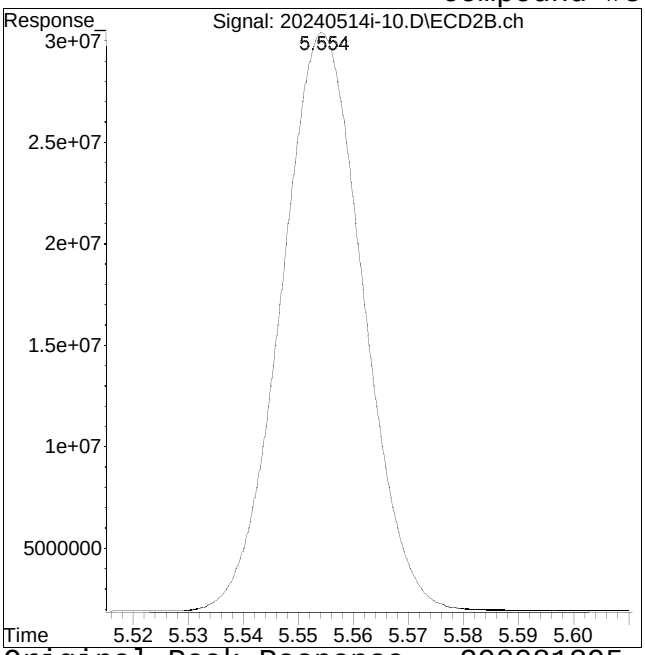
Original Peak Response = 236379122 Manual Peak Response = 235779538 M4
M4 = Poor automated baseline construction.

Manual Integration Report

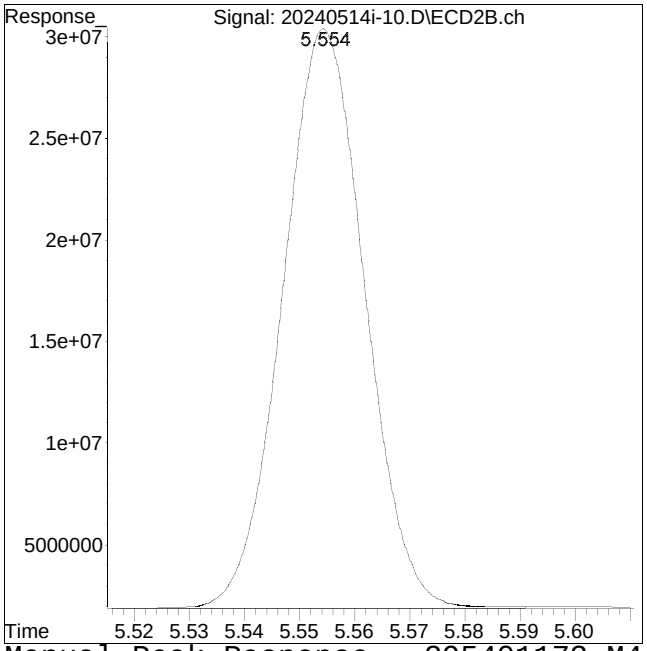
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-10.D
Date Inj'd : 5/14/2024 6:24 pm
Sample : il9pest,42e,,pp 11578 L0.1

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/15/2024 1:29 pm

Compound #55: Dieldrin #2



Original Peak Response = 298081395



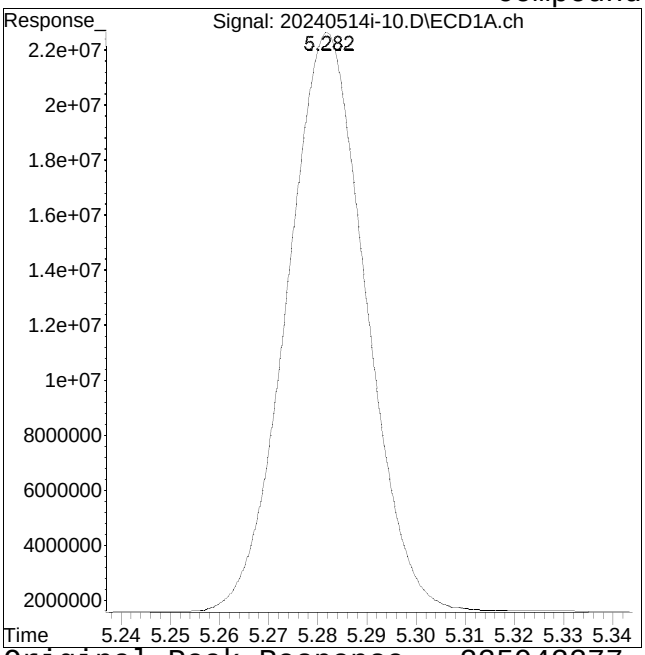
Manual Peak Response = 295401173 M4

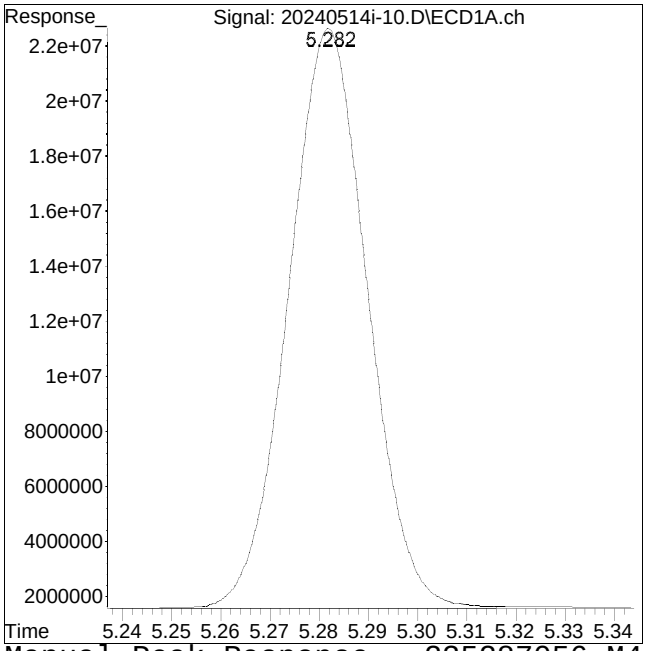
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-10.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:24 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11578 L0.1Quant Date : 5/15/2024 1:29 pm

Compound #18: Endrin



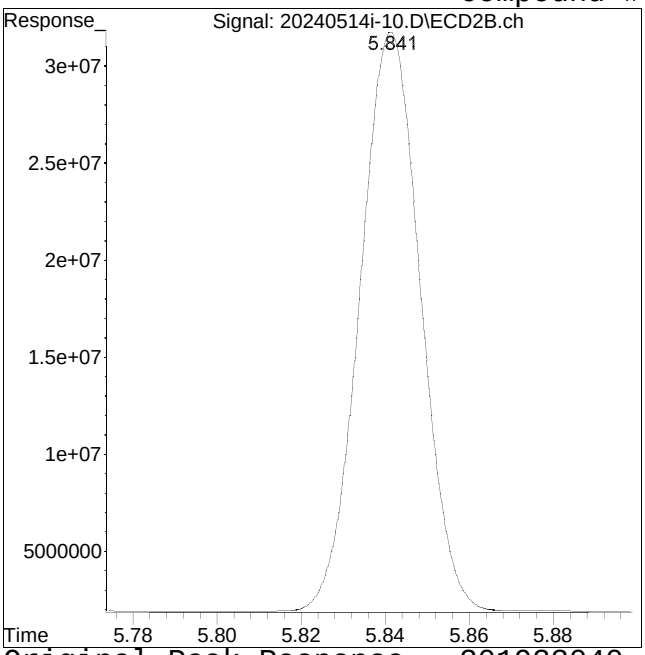


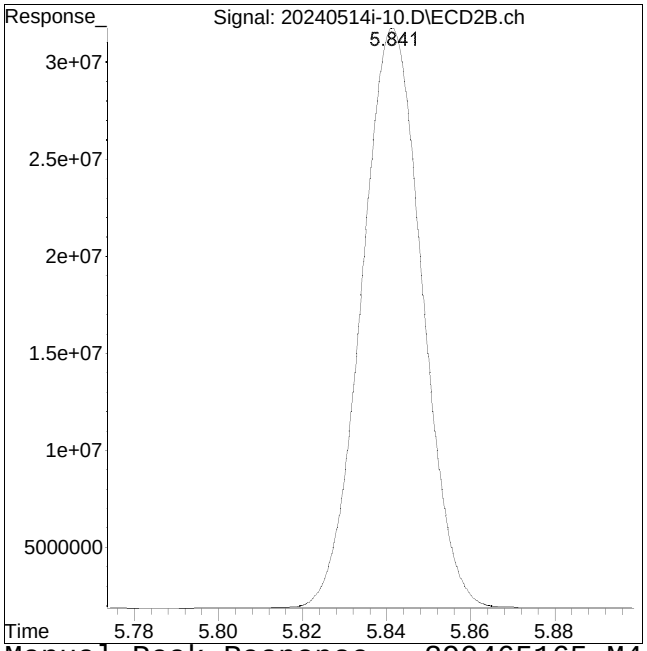
Original Peak Response = 235942377 Manual Peak Response = 235287056 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-10.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:24 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11578 L0.1Quant Date : 5/15/2024 1:29 pm

Compound #56: Endrin #2



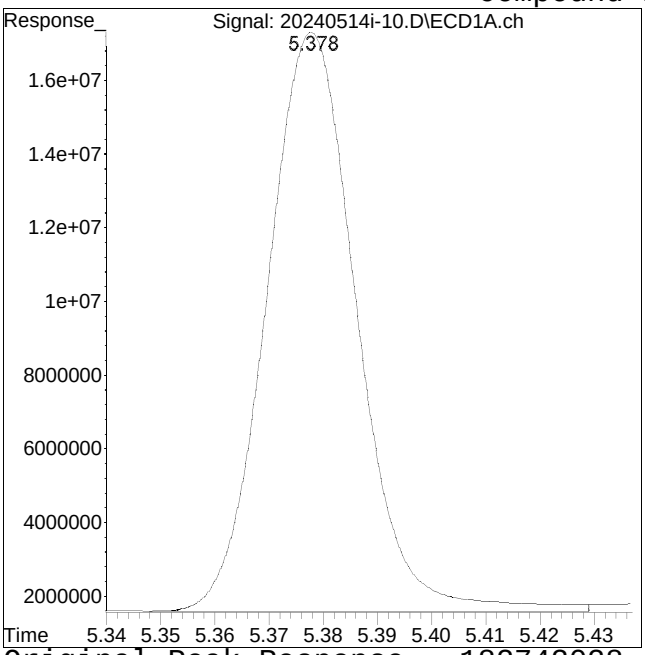


Original Peak Response = 301933040 Manual Peak Response = 299465165 M4
M4 = Poor automated baseline construction.

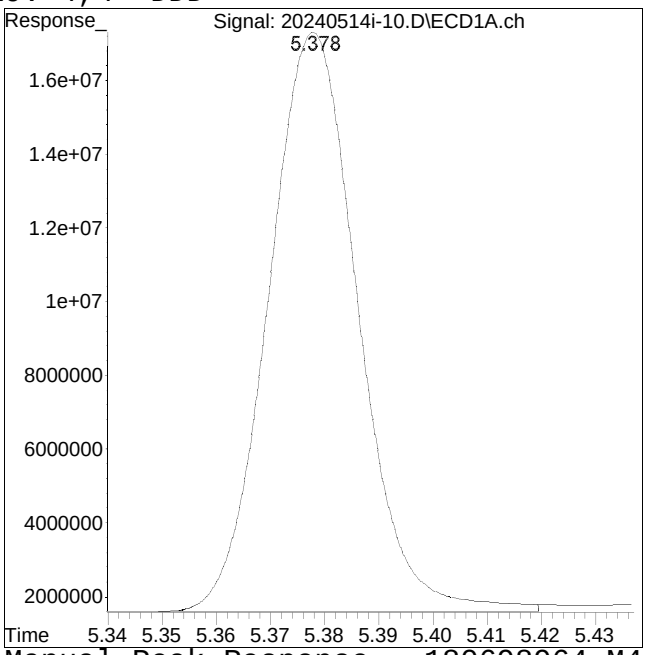
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-10.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:24 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11578 L0.1Quant Date : 5/15/2024 1:29 pm

Compound #19: 4,4'-DDD



Original Peak Response = 182742028



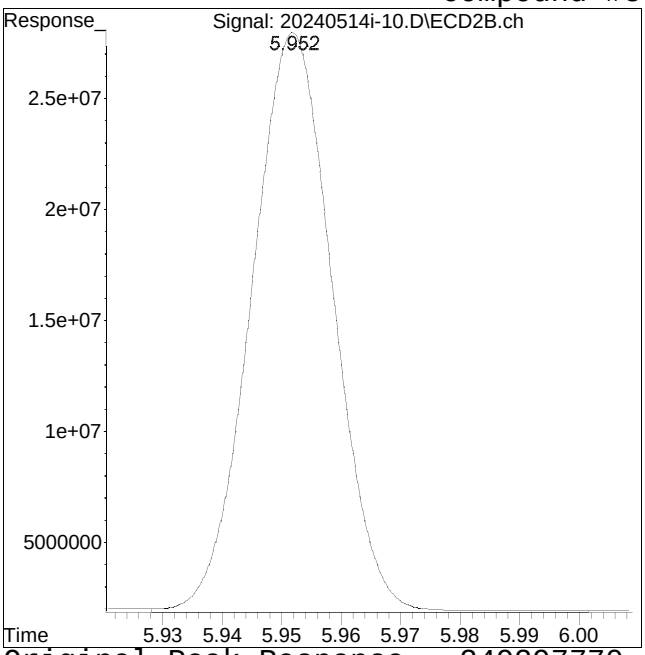
Manual Peak Response = 180698964 M4

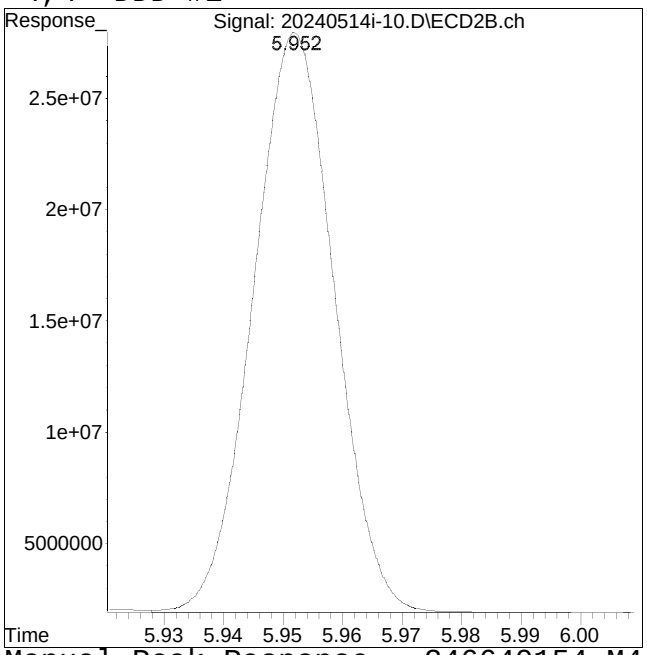
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-10.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:24 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11578 L0.1Quant Date : 5/15/2024 1:29 pm

Compound #57: 4,4'-DDD #2



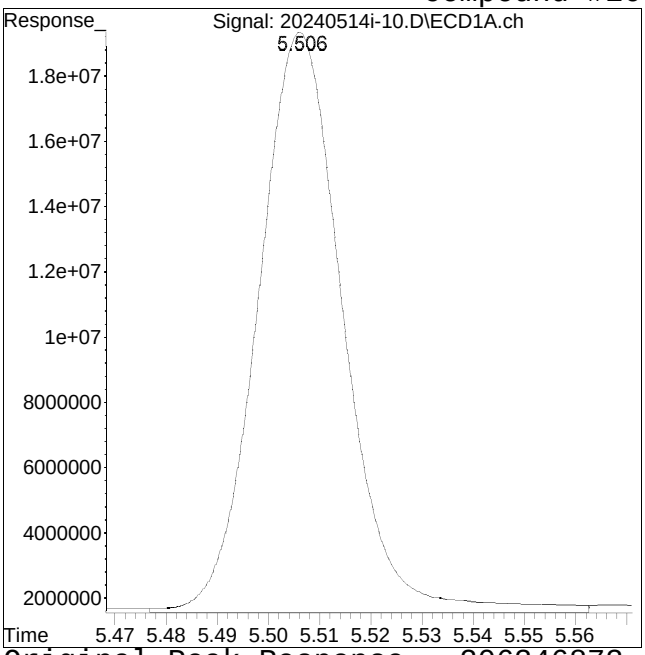


Original Peak Response = 249297770 Manual Peak Response = 246640154 M4
M4 = Poor automated baseline construction.

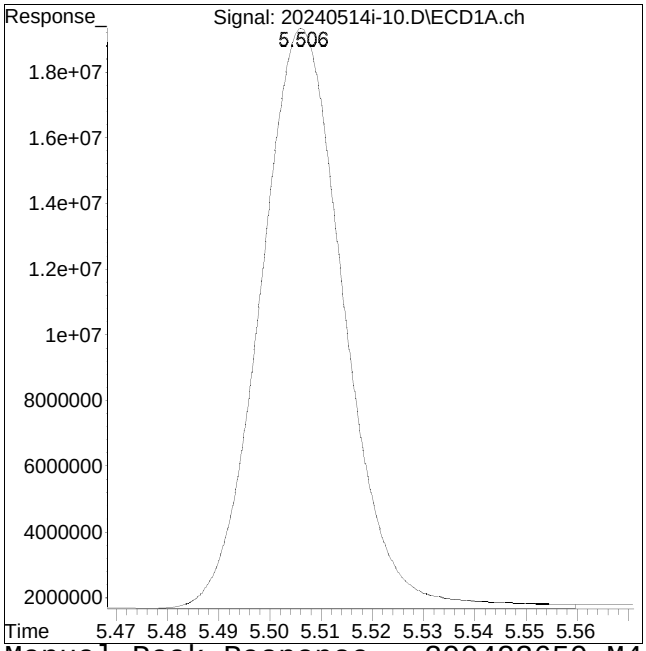
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-10.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:24 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11578 L0.1Quant Date : 5/15/2024 1:29 pm

Compound #20: Endosulfan II



Original Peak Response = 206346873



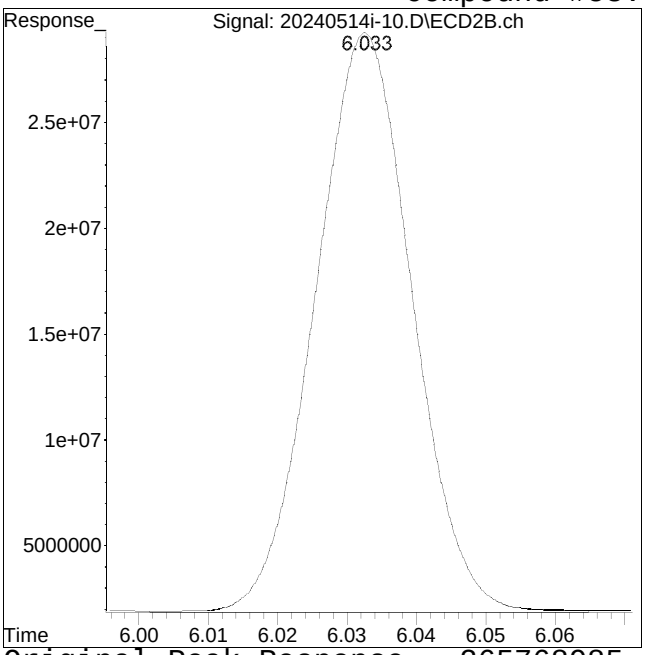
Manual Peak Response = 200423650 M4

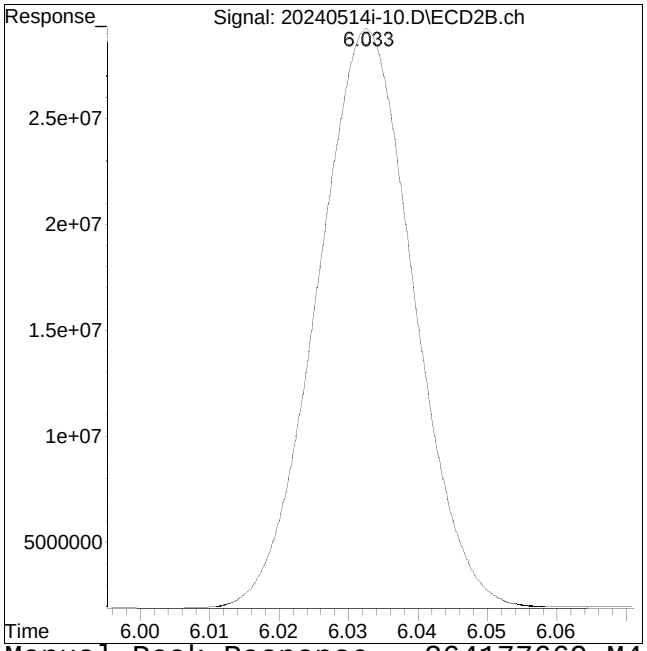
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-10.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:24 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11578 L0.1Quant Date : 5/15/2024 1:29 pm

Compound #58: Endosulfan II #2





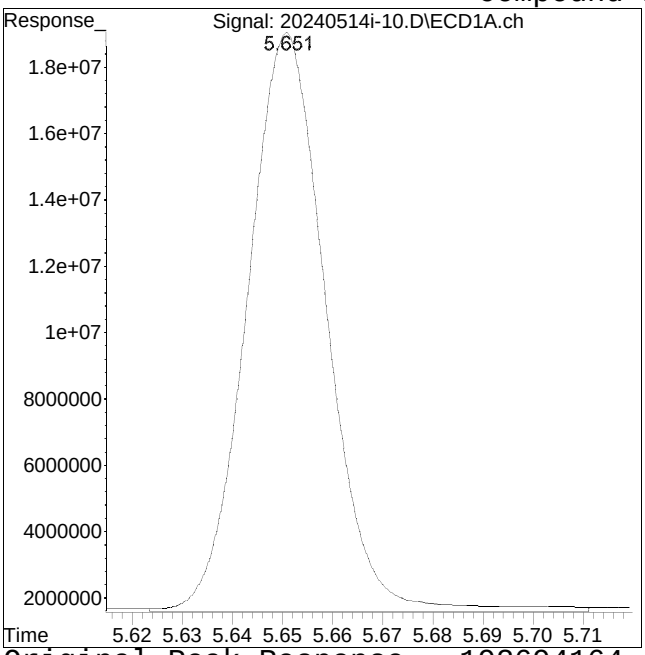
Original Peak Response = 265768985 Manual Peak Response = 264177669 M4
M4 = Poor automated baseline construction.

Manual Integration Report

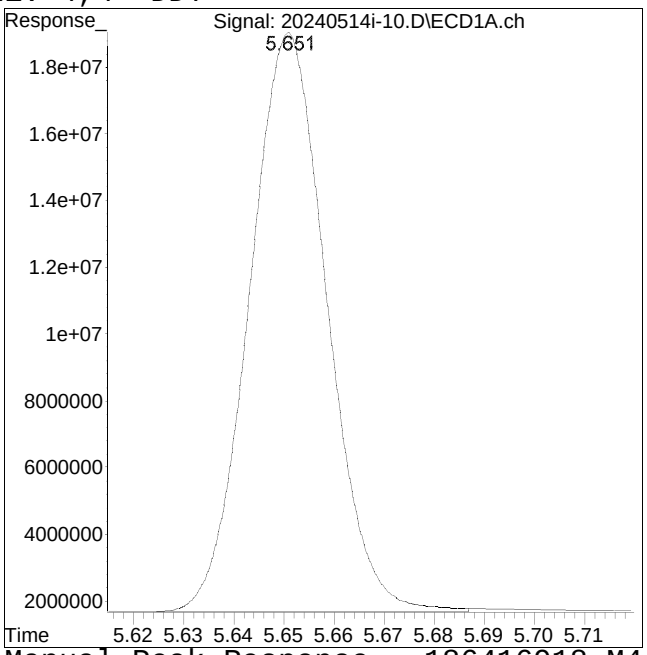
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-10.D
Date Inj'd : 5/14/2024 6:24 pm
Sample : il9pest,42e,,pp 11578 L0.1

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/15/2024 1:29 pm

Compound #21: 4,4'-DDT



Original Peak Response = 192694164



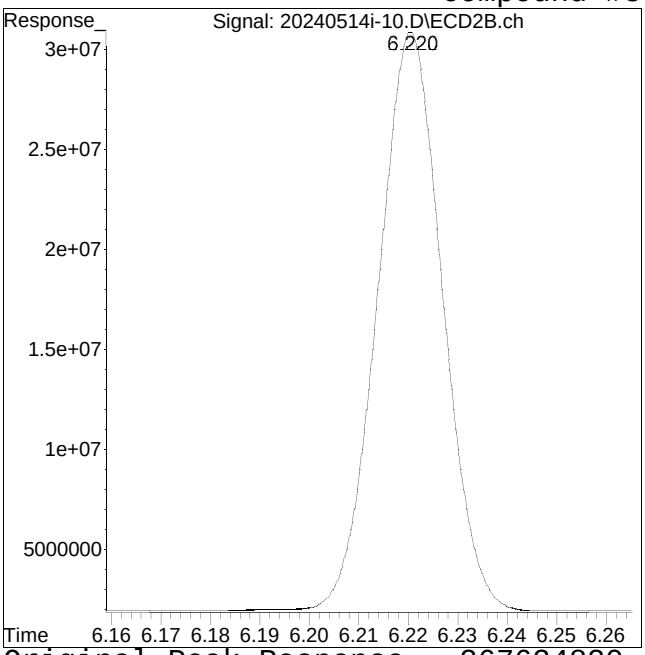
Manual Peak Response = 186416918 M4

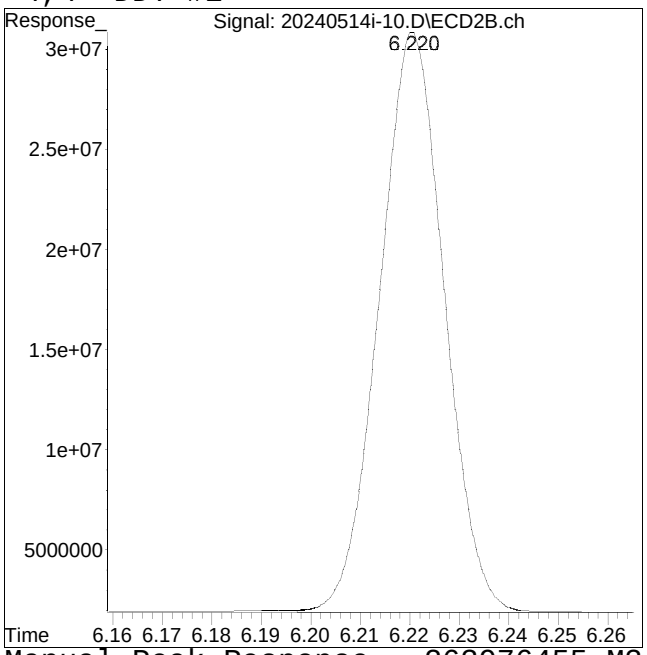
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-10.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:24 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11578 L0.1Quant Date : 5/15/2024 1:29 pm

Compound #59: 4,4'-DDT #2





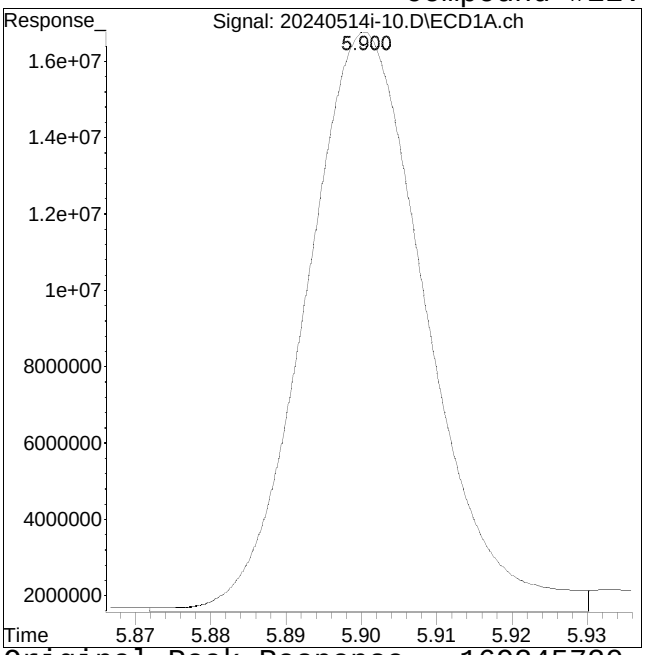
Original Peak Response = 267624820 Manual Peak Response = 263976455 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

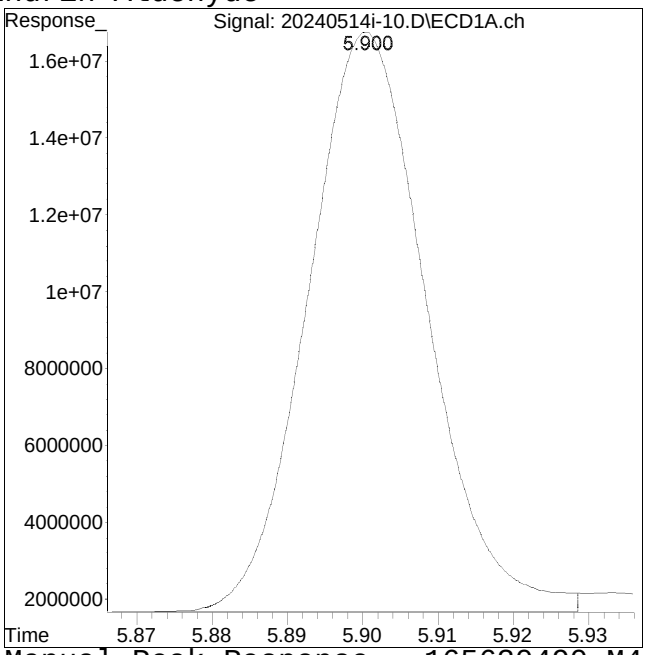
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-10.D
Date Inj'd : 5/14/2024 6:24 pm
Sample : il9pest,42e,,pp 11578 L0.1

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/15/2024 1:29 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 169245720



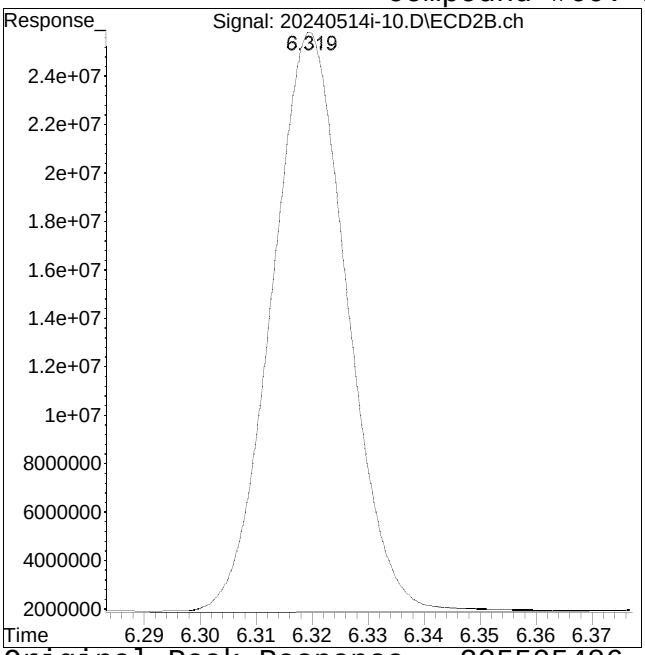
Manual Peak Response = 165630490 M4

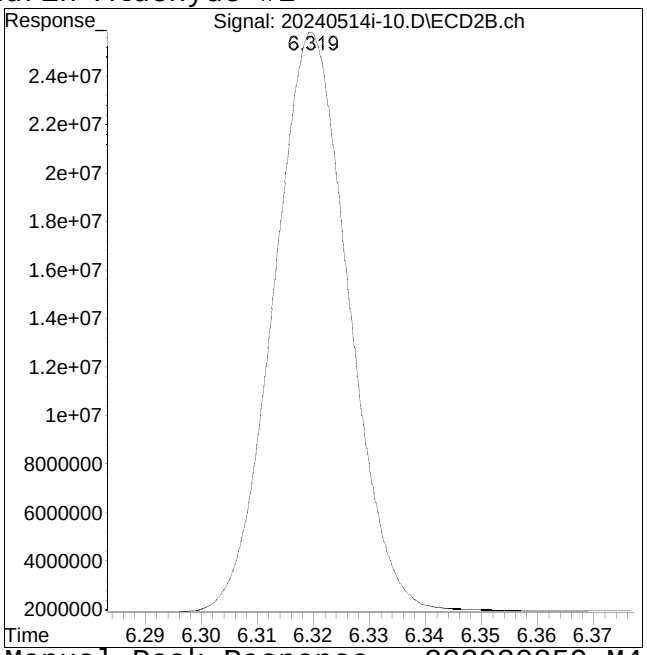
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-10.D
Date Inj'd : 5/14/2024 6:24 pm
Sample : il9pest,42e,,pp 11578 L0.1
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/15/2024 1:29 pm

Compound #60: Endrin Aldehyde #2



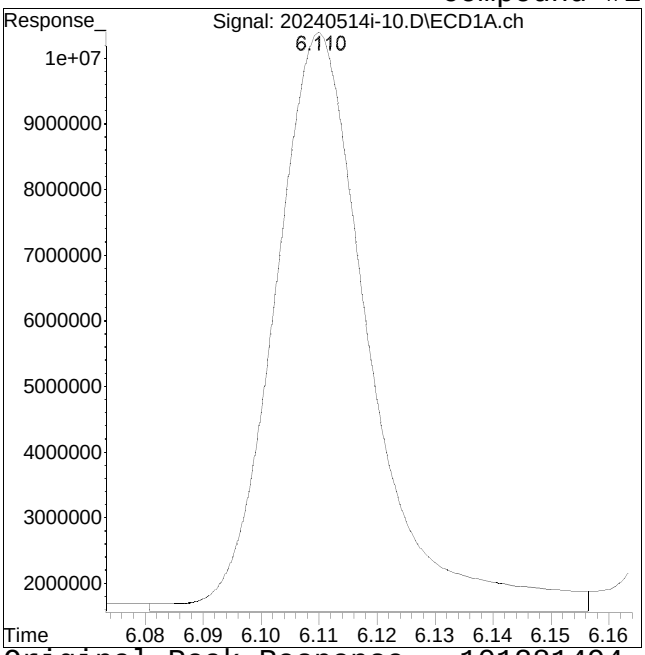


Original Peak Response = 225505486 Manual Peak Response = 223930859 M4
M4 = Poor automated baseline construction.

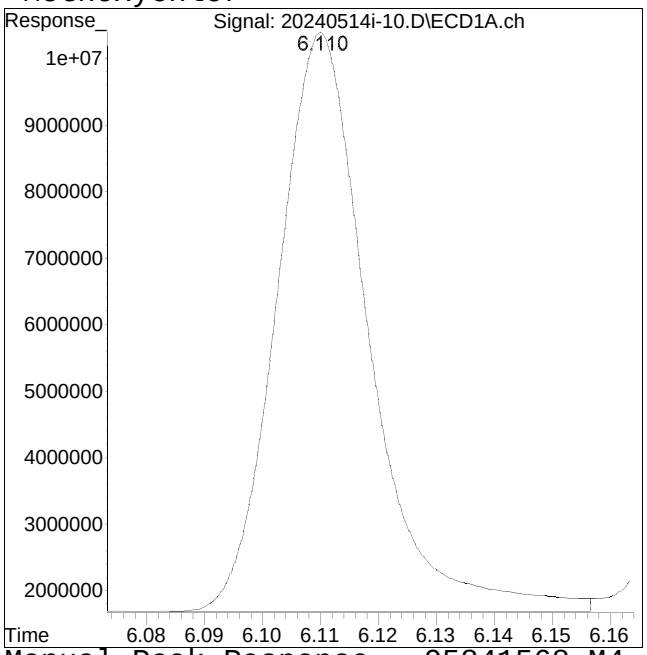
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-10.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:24 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11578 L0.1Quant Date : 5/15/2024 1:29 pm

Compound #23: Methoxychlor



Original Peak Response = 101281494

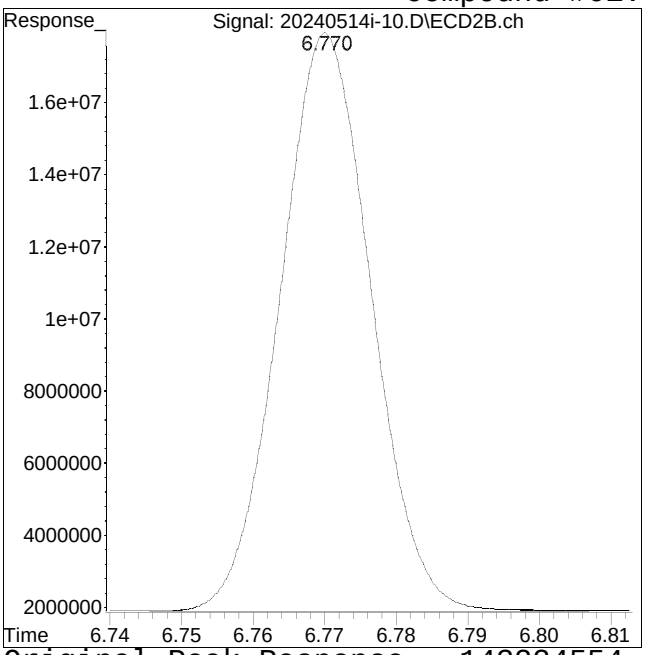


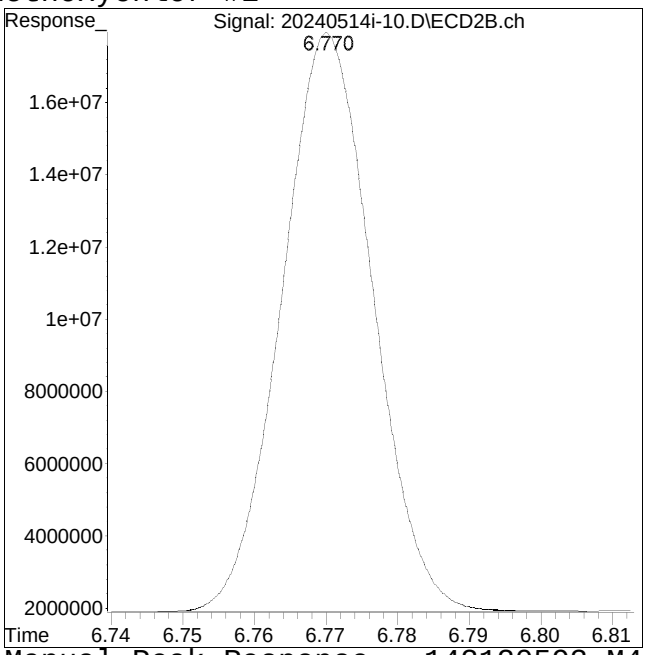
Manual Peak Response = 95841568 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-10.D
Date Inj'd : 5/14/2024 6:24 pm
Sample : il9pest,42e,,pp 11578 L0.1
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/15/2024 1:29 pm

Compound #61: Methoxychlor #2



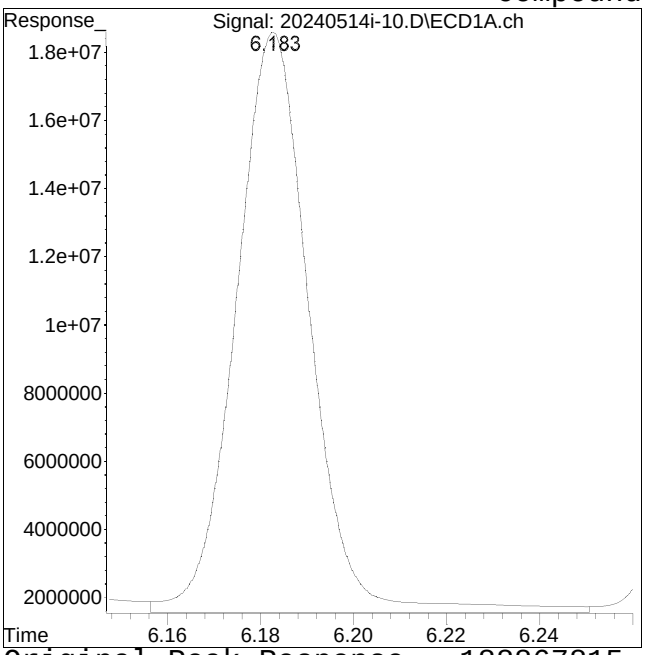


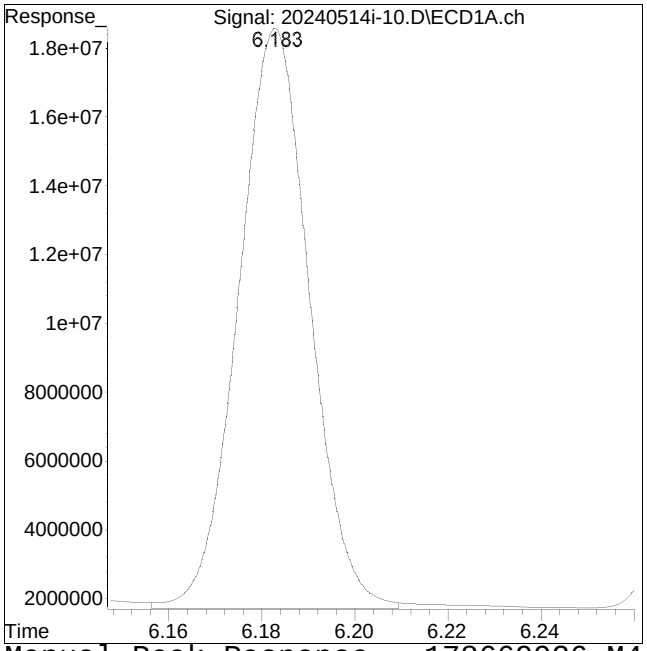
Original Peak Response = 143224554 Manual Peak Response = 142120593 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-10.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:24 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11578 L0.1Quant Date : 5/15/2024 1:29 pm

Compound #24: Mirex



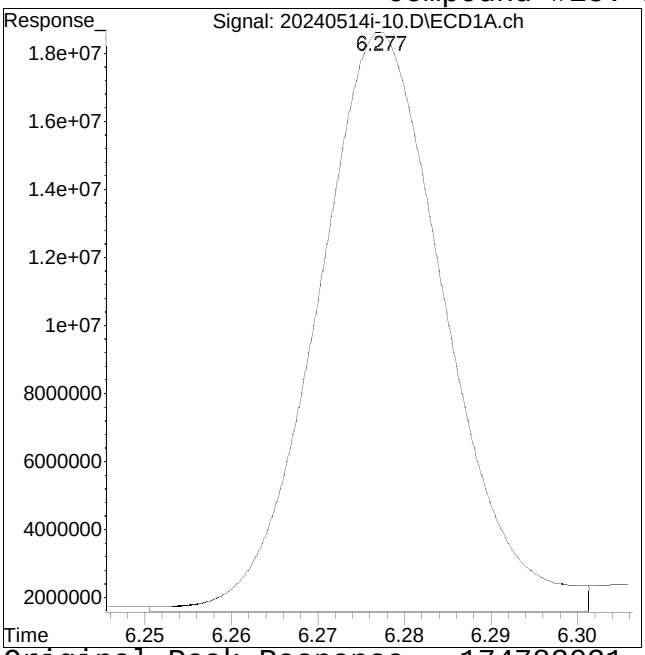


Original Peak Response = 188867815 Manual Peak Response = 178669926 M4
M4 = Poor automated baseline construction.

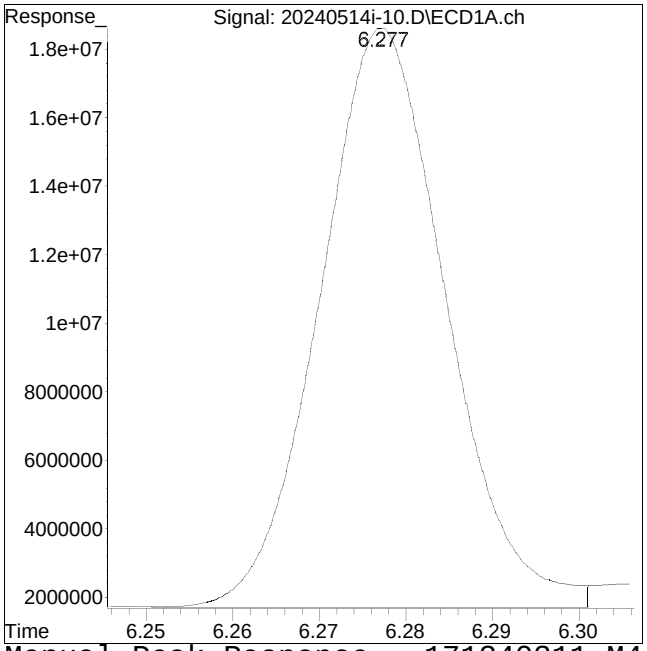
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-10.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:24 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11578 L0.1Quant Date : 5/15/2024 1:29 pm

Compound #25: Endosulfan Sulfate



Original Peak Response = 174782031



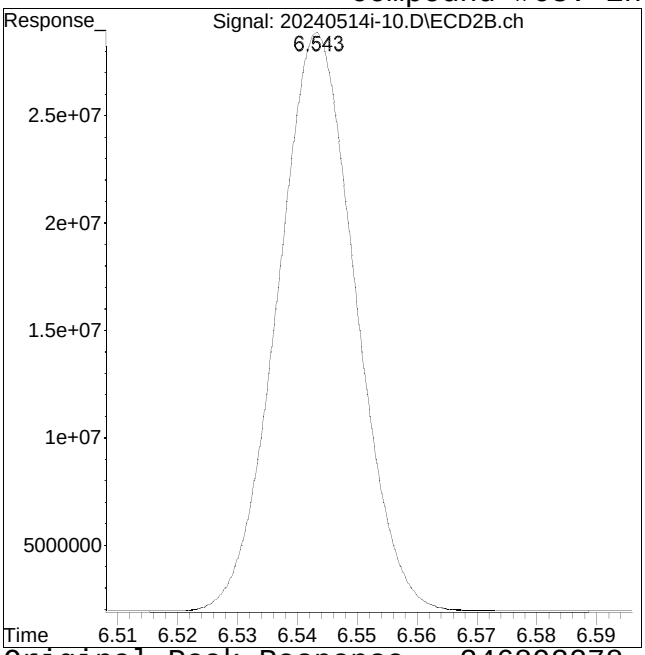
Manual Peak Response = 171340311 M4

M4 = Poor automated baseline construction.

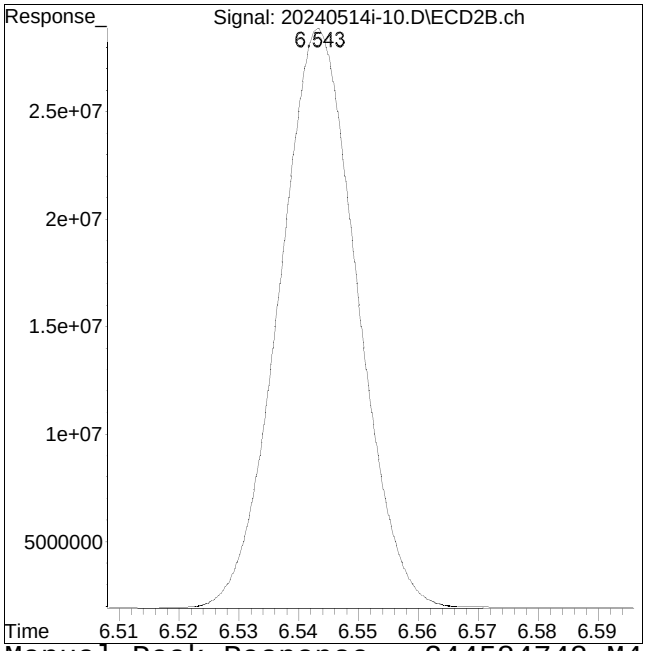
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-10.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:24 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11578 L0.1Quant Date : 5/15/2024 1:29 pm

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 246892278

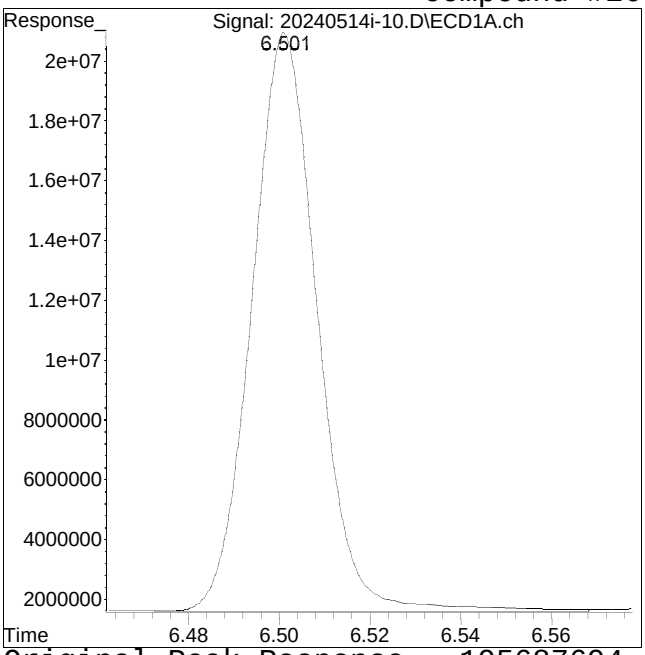


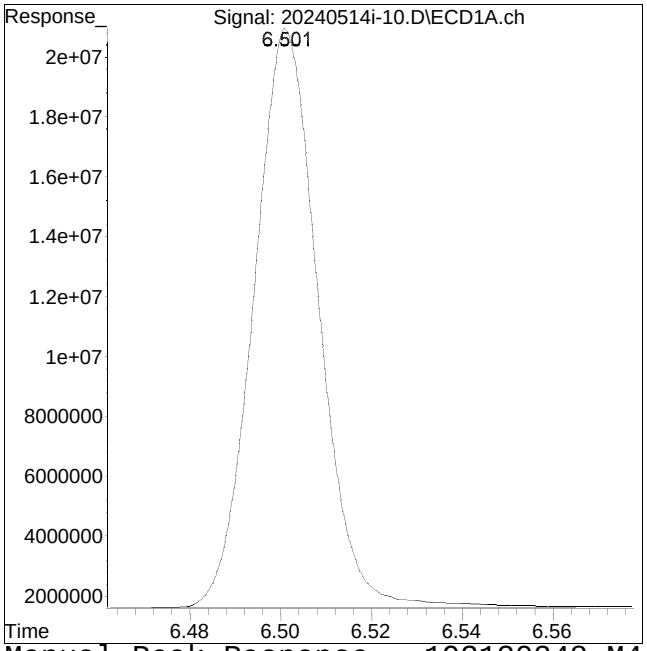
Manual Peak Response = 244584748 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-10.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:24 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11578 L0.1Quant Date : 5/15/2024 1:29 pm

Compound #26: Endrin Ketone



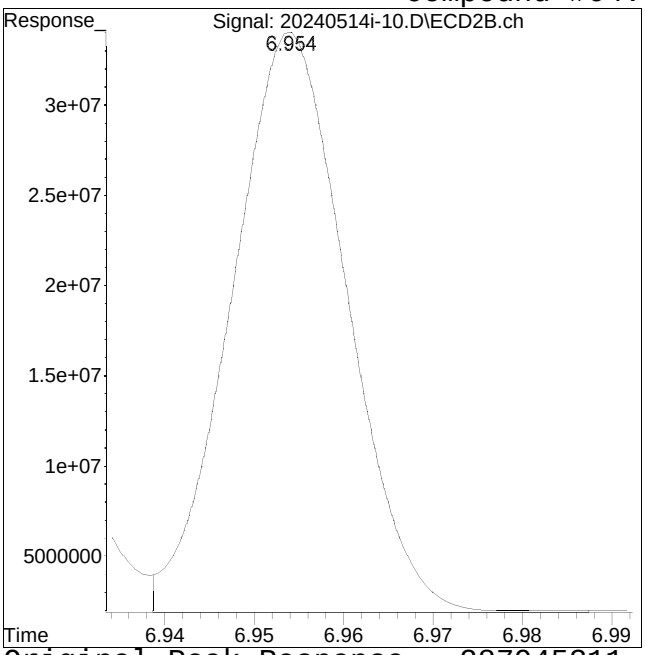


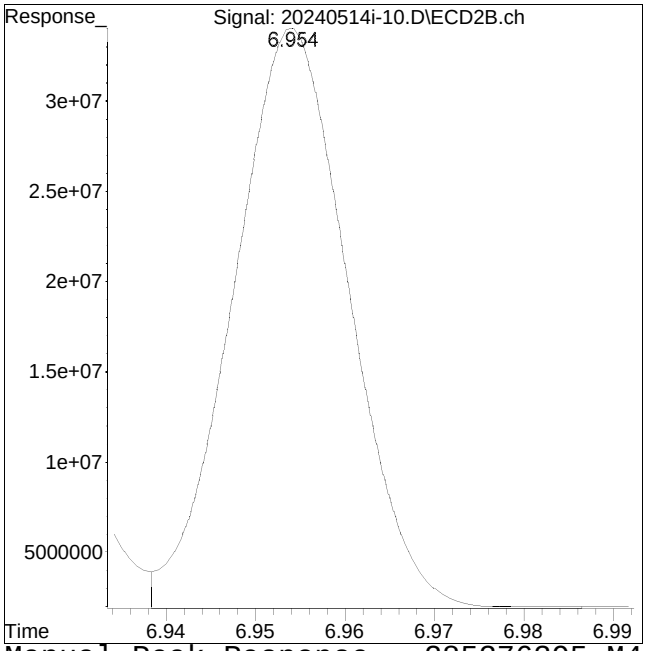
Original Peak Response = 195687694 Manual Peak Response = 193130248 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-10.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:24 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11578 L0.1Quant Date : 5/15/2024 1:29 pm

Compound #64: Endrin Ketone #2



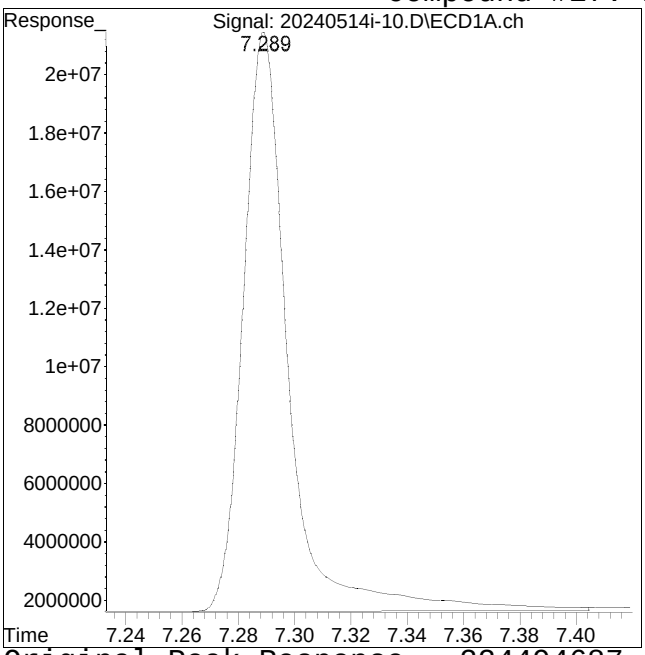


Original Peak Response = 287945311 Manual Peak Response = 285376395 M4
M4 = Poor automated baseline construction.

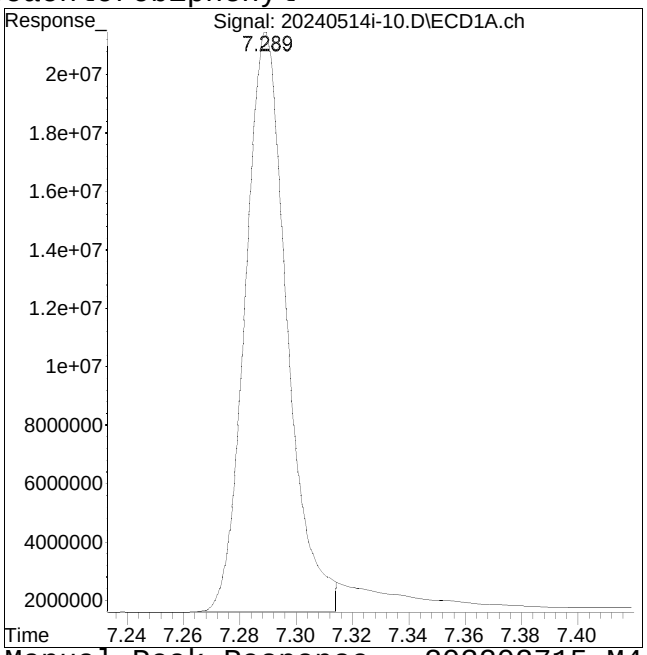
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-10.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:24 pm Instrument : PEST 20
Sample : il9pest,42e,,pp 11578 L0.1Quant Date : 5/15/2024 1:29 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 224494687



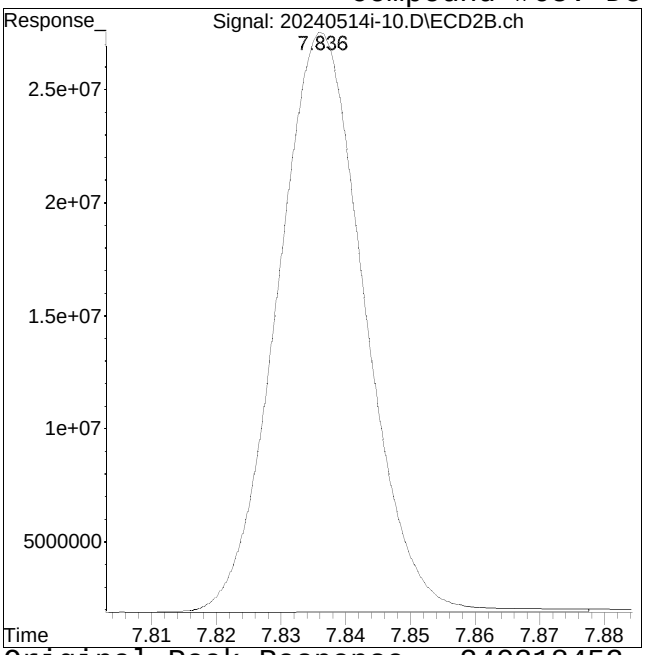
Manual Peak Response = 203202715 M4

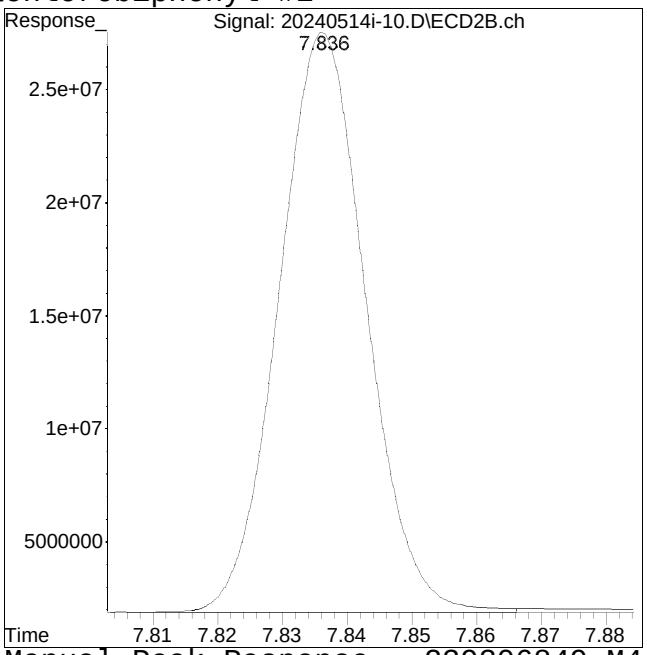
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-10.D
Date Inj'd : 5/14/2024 6:24 pm
Sample : il9pest,42e,,pp 11578 L0.1
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/15/2024 1:29 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 240318452 Manual Peak Response = 239306849 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-11.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 06:37 pm
Operator : pest20:peg
Sample : il10pest,42e,,pp 11577 L0.2 (Sig #1); il10pest,42e,,pp 11564 L0.2 (Sig #2)
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 09:32:12 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 09:32:00 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.933	1.971	53165982	70595640	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.406	2.576	429.2E6	570.4E6	197.677M4	199.142M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		395.35%#	398.28%#
27) s	Decachlorobi	7.288	7.835	414.6E6	482.3E6	197.878M4	196.062M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		395.76%#	392.12%#
	Target Compounds						
3)	Hexachlorobe	2.675	2.954	438.1E6	578.6E6	196.448M3	197.650
4)	alpha-BHC	2.799	3.068	573.2E6	779.5E6	202.855M4	204.292M4
5)	gamma-BHC (l	3.044	3.391	520.0E6	707.4E6	201.984M4	203.229M4
6)	beta-BHC	3.113	3.465	232.5E6	317.0E6	196.582M4	197.919M3
7)	delta-BHC	3.263	3.761	507.2E6	722.7E6	207.311M4	205.826M4
8)	Heptachlor	3.451	3.831	495.2E6	649.1E6	200.375M4	201.321M4
9)	Aldrin	3.729	4.179	515.9E6	649.0E6	202.548M4	203.472M4
10)	Alachlor	3.870	4.057	61611243	85671615	183.292M4	188.629
11)	Chlorpyrifos	3.973	4.438	203.5E6	291.3E6	193.193M4	191.931

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-11.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 06:37 pm
Operator : pest20:peg
Sample : il10pest,42e,,pp 11577 L0.2 (Sig #1); il10pest,42e,,pp 11564 L0.2 (Sig #2)
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 09:32:12 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 09:32:00 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	Heptachlor E	4.340	4.840	470.2E6	615.9E6	199.785M4	201.820M4
13)	gamma-Chlord	4.478	5.059	439.2E6	550.1E6	202.296M4	202.995M4
14)	alpha-Chlord	4.625	5.218	494.6E6	611.4E6	201.441M4	202.410M4
15)	4,4'-DDE	4.731	5.402	496.7E6	633.5E6	205.666	204.347M4
16)	Endosulfan I	4.775	5.277	455.9E6	573.9E6	199.796M4	201.956M4
17)	Dieldrin	5.043	5.554	487.4E6	611.4E6	203.412M4	204.110M4
18)	Endrin	5.283	5.841	486.1E6	621.2E6	202.946M4	204.110M4
19)	4,4'-DDD	5.378	5.951	381.4E6	515.6E6	207.192M4	205.159M4
20)	Endosulfan I	5.507	6.032	412.5E6	544.0E6	202.414M4	202.575M4
21)	4,4'-DDT	5.651	6.220	396.8E6	553.2E6	207.660M4	204.952M4
22)	Endrin Aldeh	5.901	6.319	343.1E6	460.9E6	205.542M4	203.303M4
23)	Methoxychlor	6.110	6.770	189.8E6	288.3E6	194.992M4	197.807M4
24)	Mirex	6.183	6.921	364.1E6	435.9E6	196.795M4	197.430M4
25)	Endosulfan S	6.277	6.543	357.5E6	503.8E6	206.661M4	202.046M4
26)	Endrin Keton	6.501	6.953	397.4E6	590.7E6	203.606M4	203.013M4
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-11.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 06:37 pm
Operator : pest20:peg
Sample : il10pest,42e,,pp 11577 L0.2 (Sig #1); il10pest,42e,,pp 11564 L0.2 (Sig #2)
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 09:32:12 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 09:32:00 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

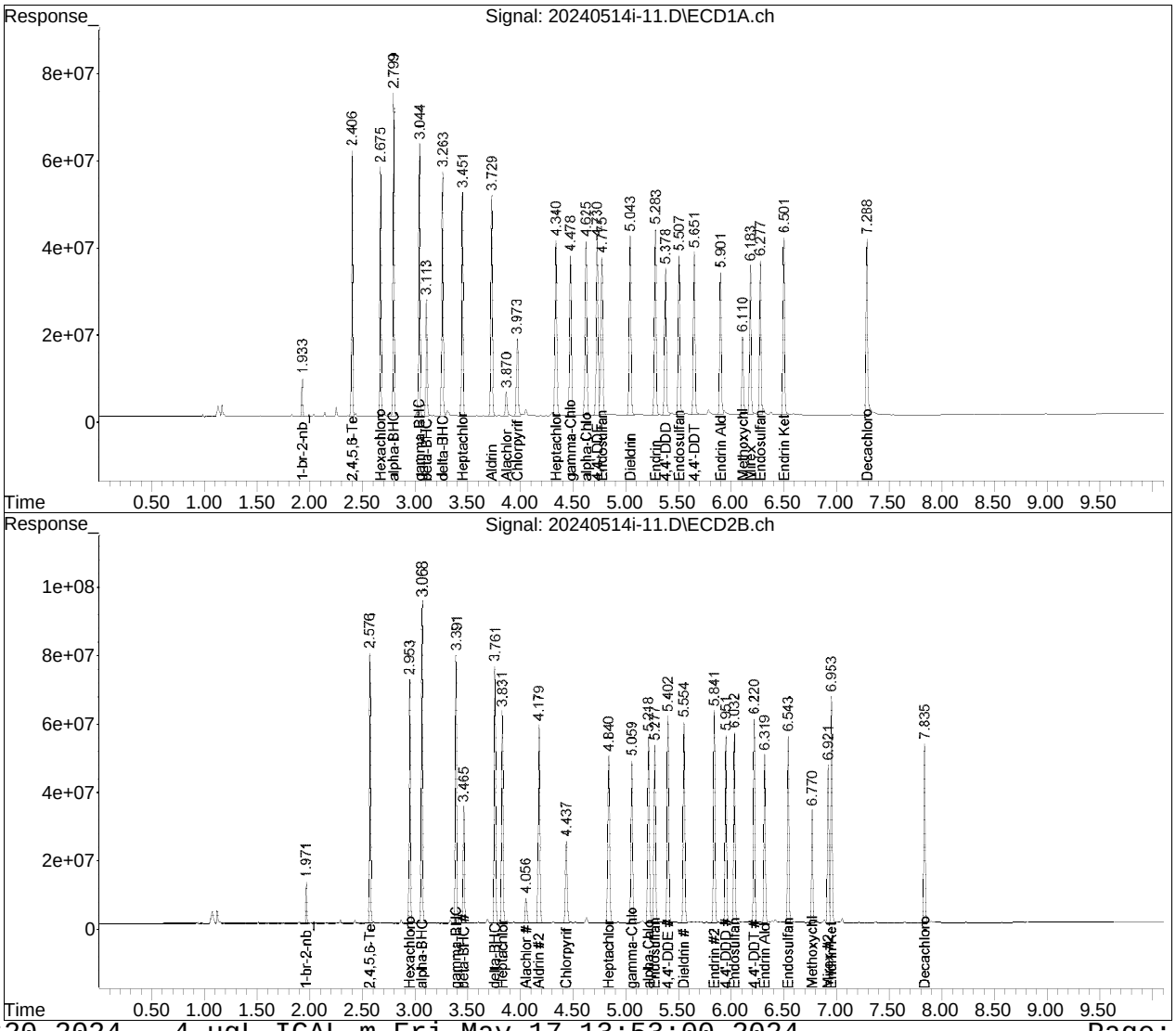
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-11.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 06:37 pm
Operator : pest20:peg
Sample : il10pest,42e,,pp 11577 L0.2 (Sig #1); il10pest,42e,,pp 11564 L0.2
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 09:32:12 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 09:32:00 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

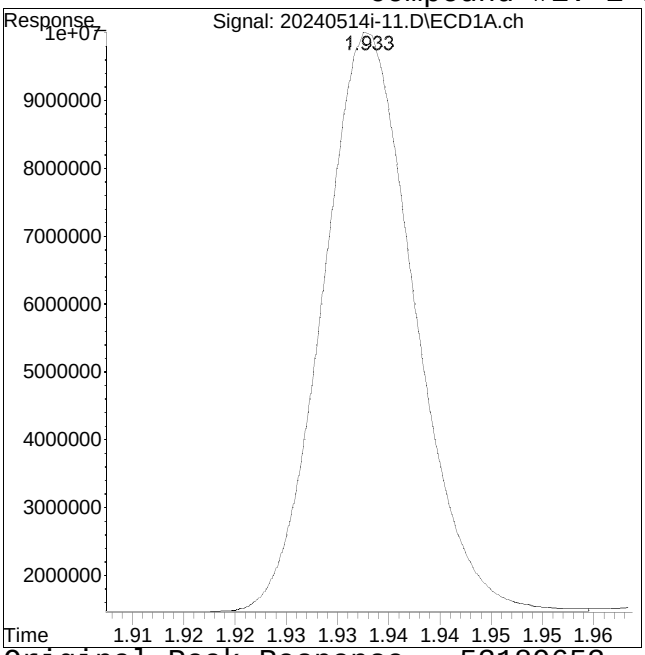


Manual Integration Report

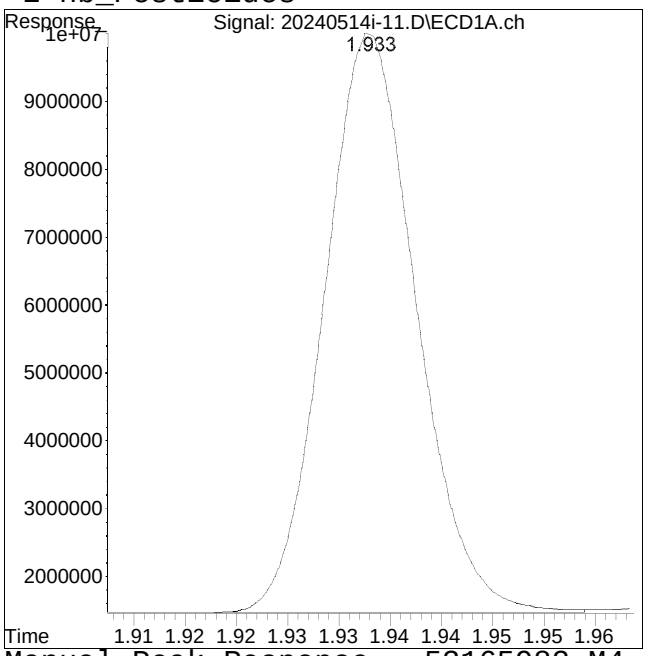
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-11.D
Date Inj'd : 5/14/2024 6:37 pm
Sample : il10pest,42e,,pp 11577 L0.

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 9:32 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 53189653



Manual Peak Response = 53165982 M4

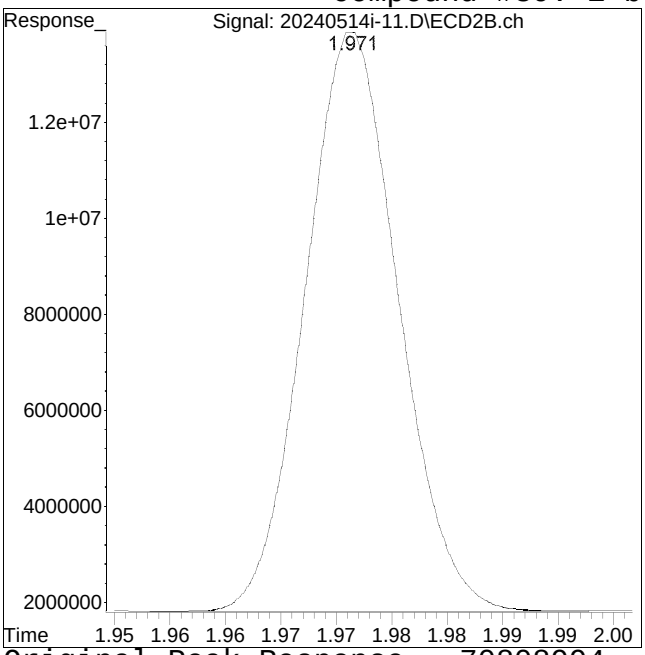
M4 = Poor automated baseline construction.

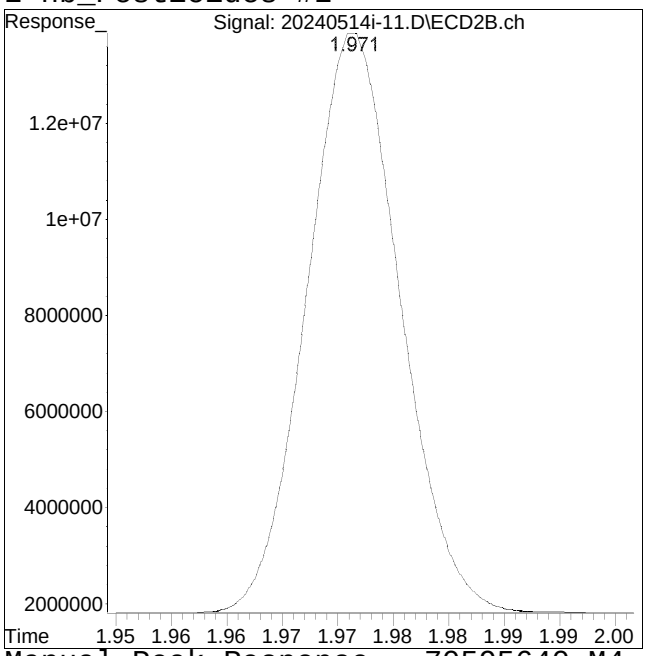
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-11.D
Date Inj'd : 5/14/2024 6:37 pm
Sample : il10pest,42e,,pp 11577 L0.

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 9:32 am

Compound #39: 1-br-2-nb_Pesticides #2



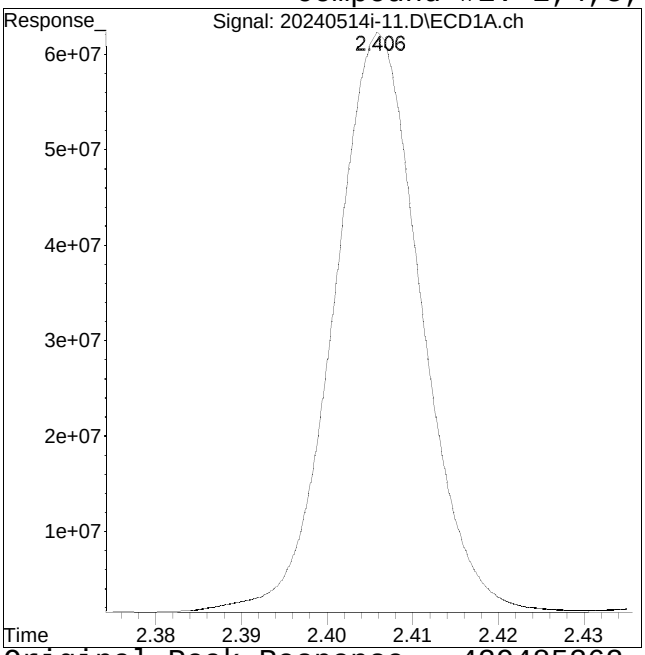


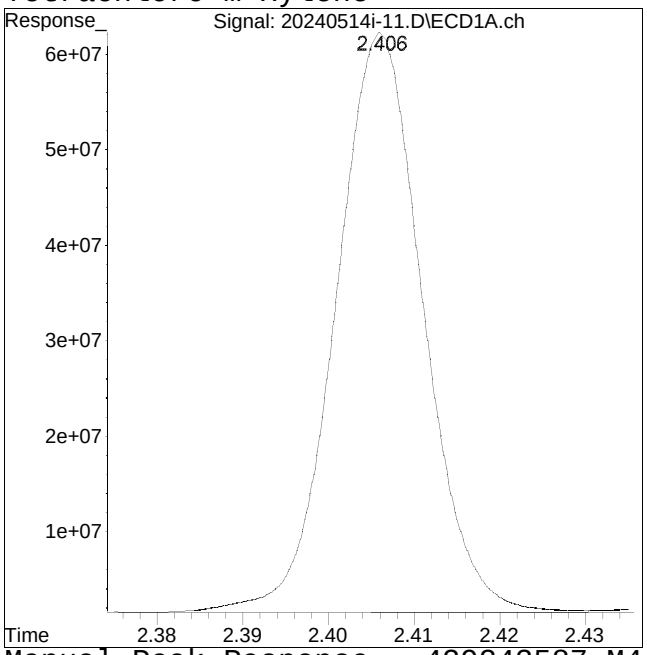
Original Peak Response = 70808994 Manual Peak Response = 70595640 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-11.D
Date Inj'd : 5/14/2024 6:37 pm
Sample : il10pest,42e,,pp 11577 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 9:32 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





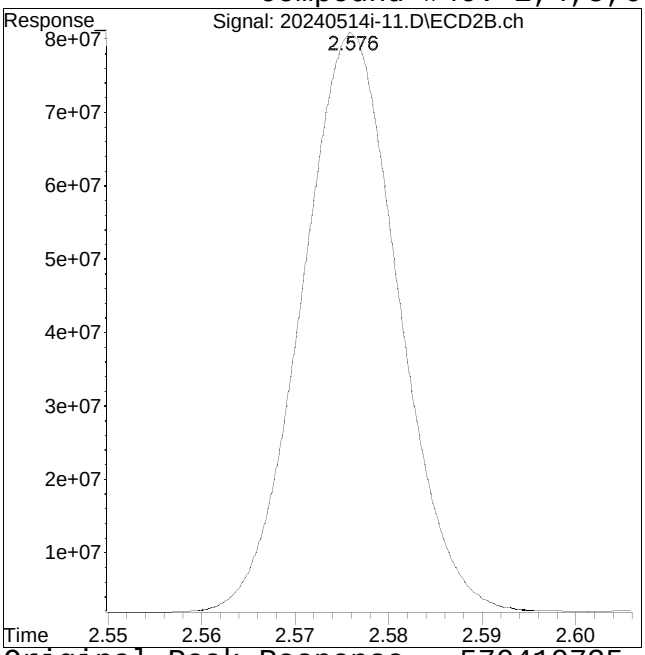
Original Peak Response = 429485362 Manual Peak Response = 429243587 M4
M4 = Poor automated baseline construction.

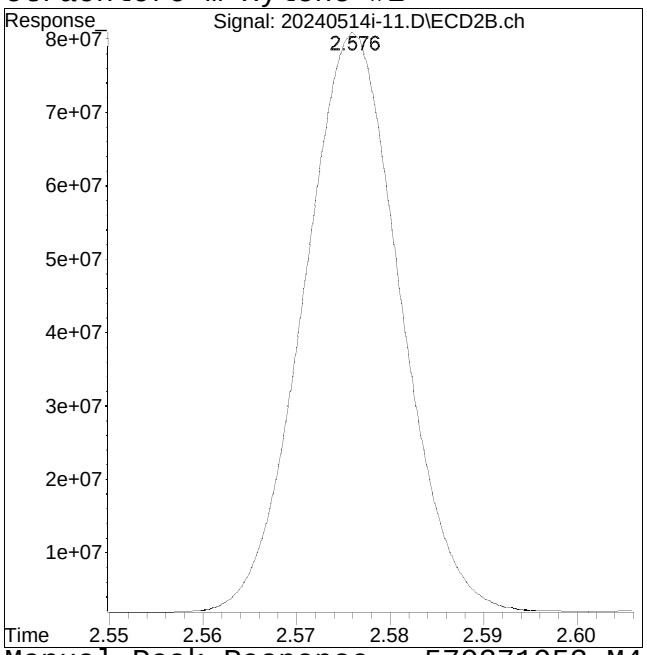
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-11.D
Date Inj'd : 5/14/2024 6:37 pm
Sample : il10pest,42e,,pp 11577 L0.

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 9:32 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



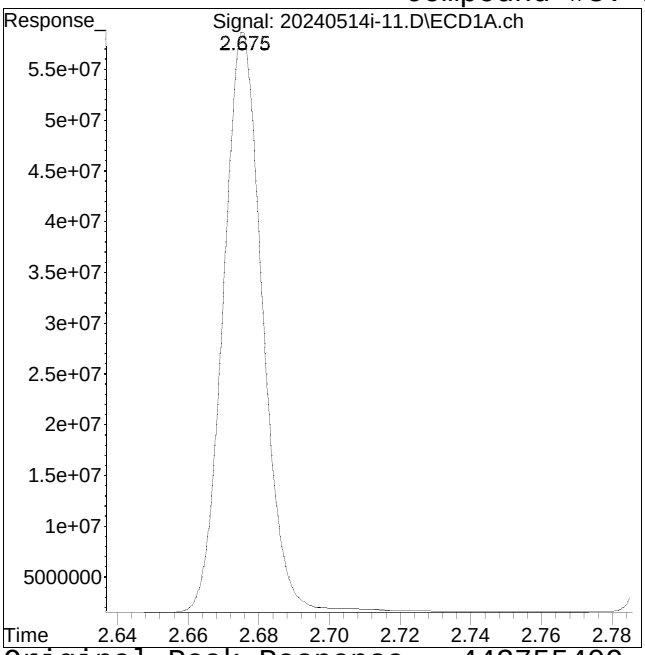


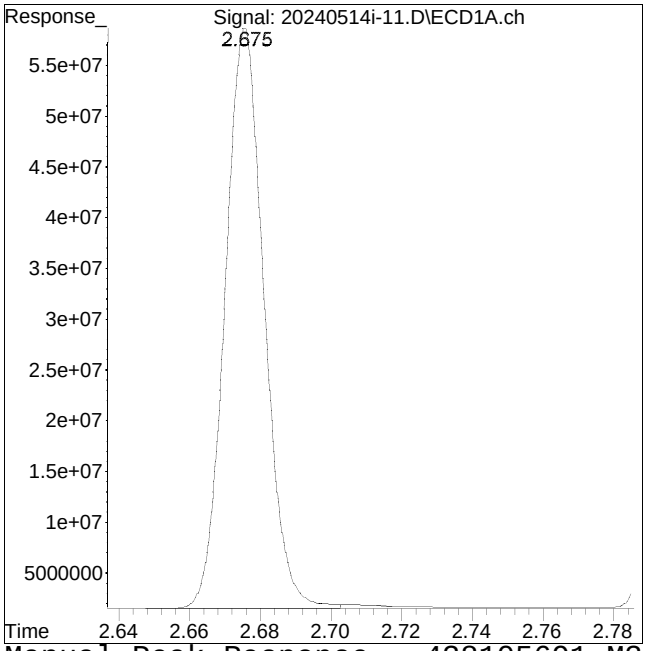
Original Peak Response = 570410735 Manual Peak Response = 570371953 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-11.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:37 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11577 L0.Quant Date : 5/16/2024 9:32 am

Compound #3: Hexachlorobenzene





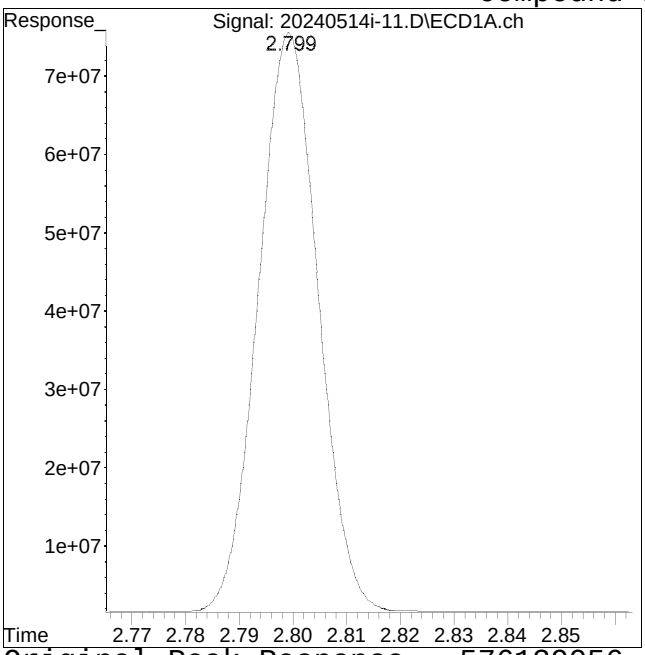
Original Peak Response = 443755409 Manual Peak Response = 438105691 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

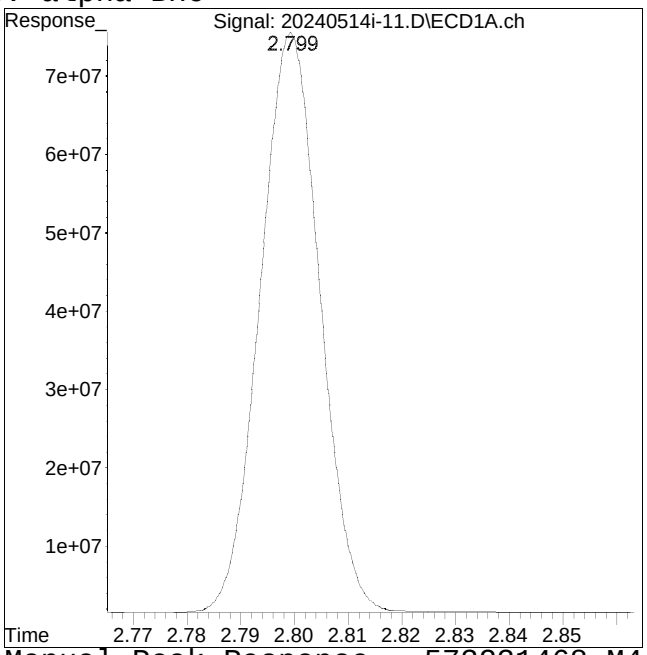
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-11.D
Date Inj'd : 5/14/2024 6:37 pm
Sample : il10pest,42e,,pp 11577 L0.

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 9:32 am

Compound #4: alpha-BHC



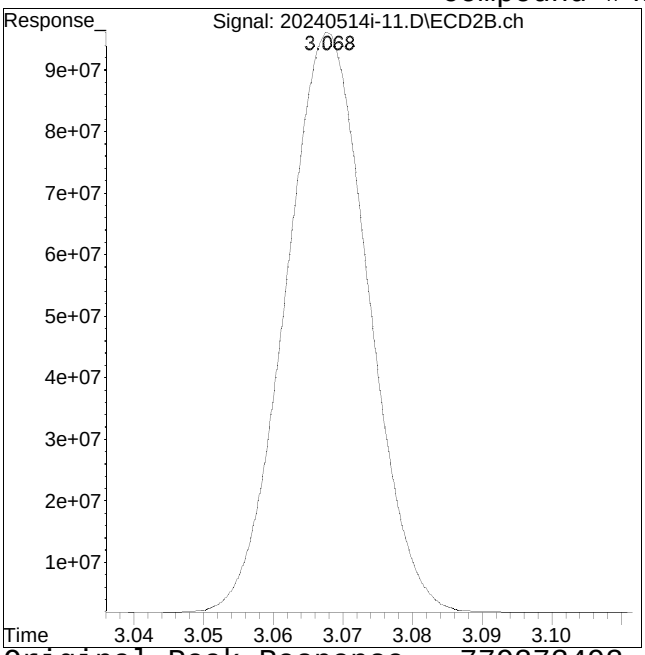


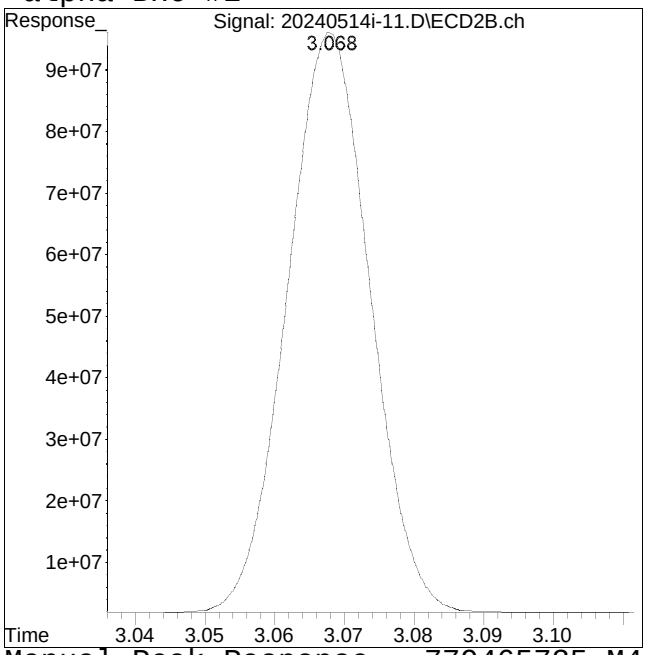
Original Peak Response = 576139956 Manual Peak Response = 573231468 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-11.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:37 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11577 L0.Quant Date : 5/16/2024 9:32 am

Compound #42: alpha-BHC #2





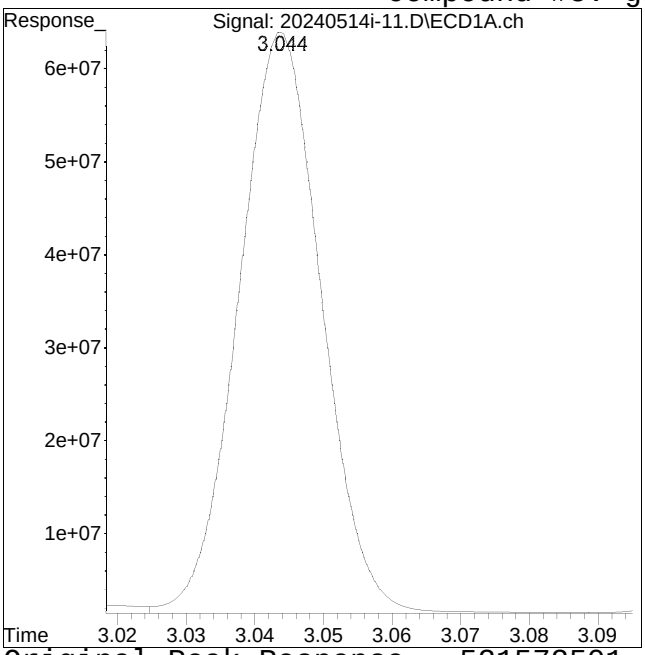
Original Peak Response = 779373493 Manual Peak Response = 779465735 M4
M4 = Poor automated baseline construction.

Manual Integration Report

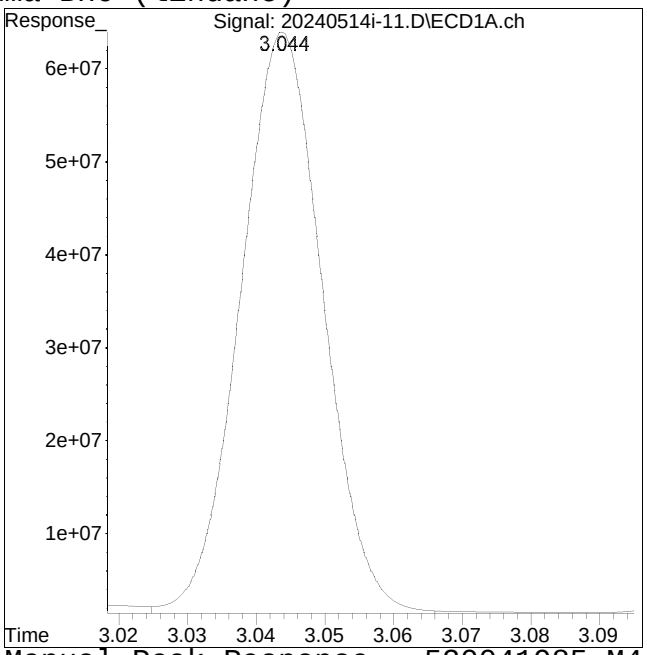
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-11.D
Date Inj'd : 5/14/2024 6:37 pm
Sample : il10pest,42e,,pp 11577 L0.

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 9:32 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 521572501



Manual Peak Response = 520041985 M4

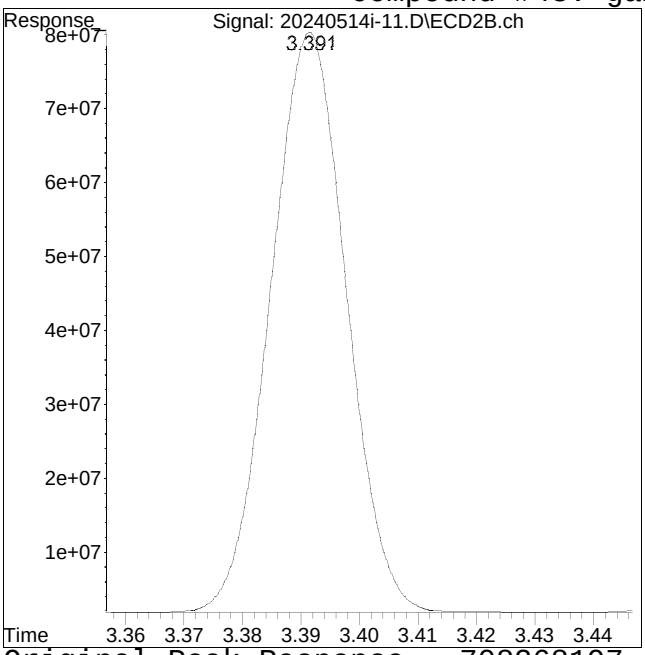
M4 = Poor automated baseline construction.

Manual Integration Report

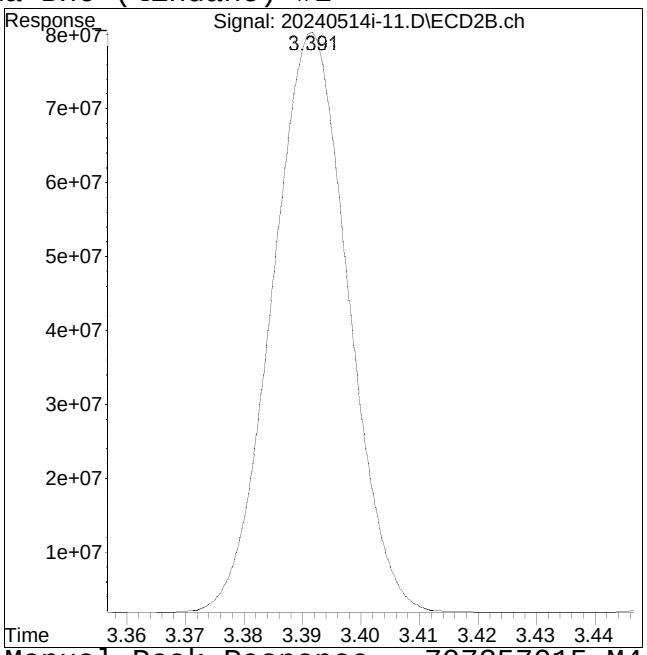
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-11.D
Date Inj'd : 5/14/2024 6:37 pm
Sample : il10pest,42e,,pp 11577 L0.

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 9:32 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 708268197



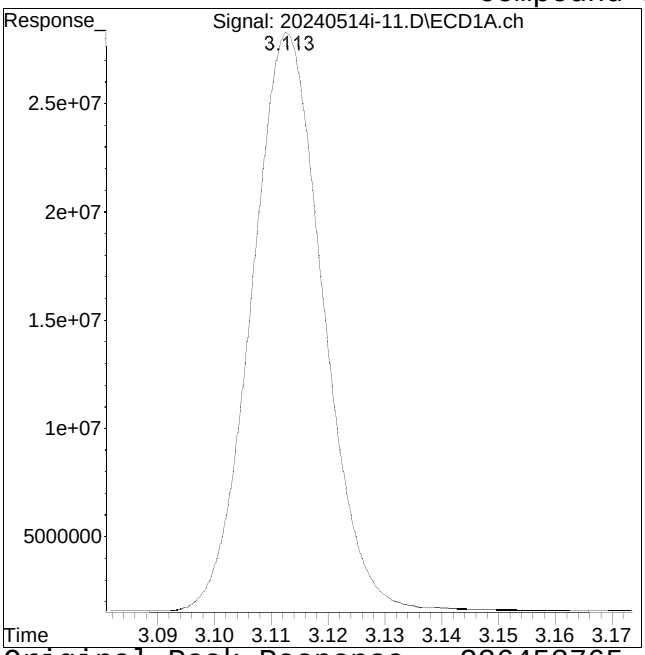
Manual Peak Response = 707357015 M4

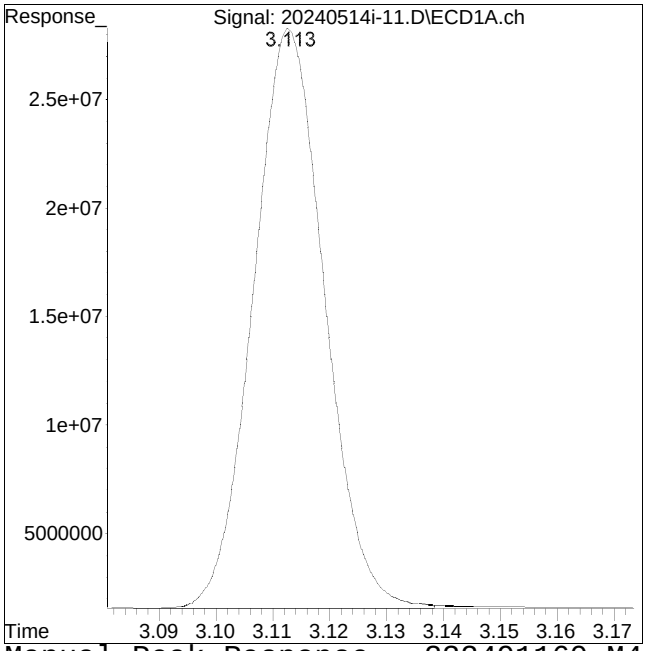
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-11.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:37 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11577 L0.Quant Date : 5/16/2024 9:32 am

Compound #6: beta-BHC



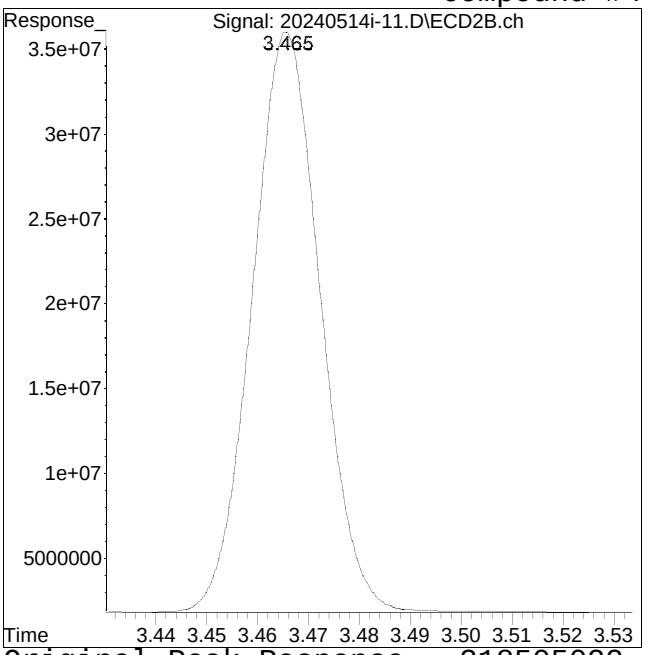


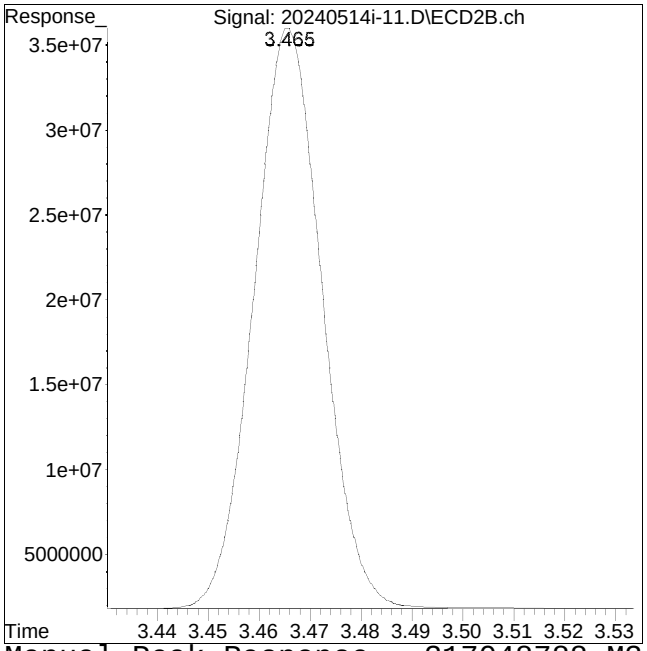
Original Peak Response = 236453765 Manual Peak Response = 232491160 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-11.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:37 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11577 L0.Quant Date : 5/16/2024 9:32 am

Compound #44: beta-BHC #2



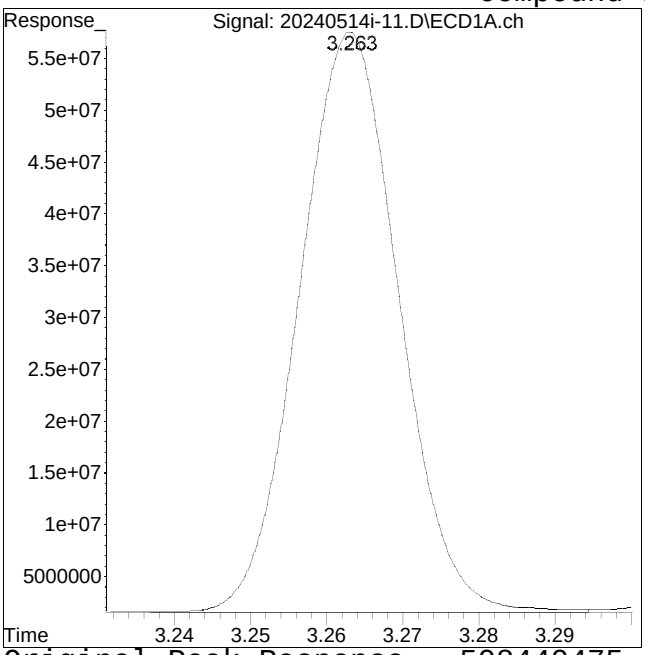


Original Peak Response = 318505022 Manual Peak Response = 317048788 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

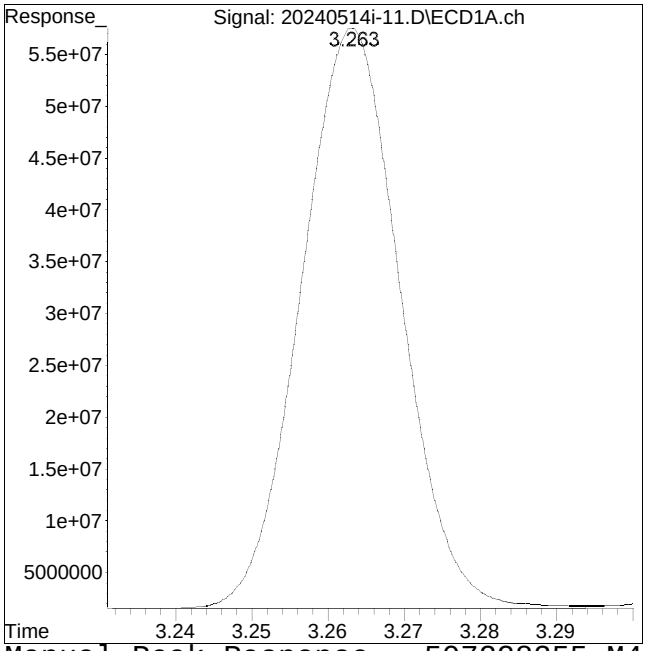
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-11.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:37 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11577 L0.Quant Date : 5/16/2024 9:32 am

Compound #7: delta-BHC



Original Peak Response = 508440475



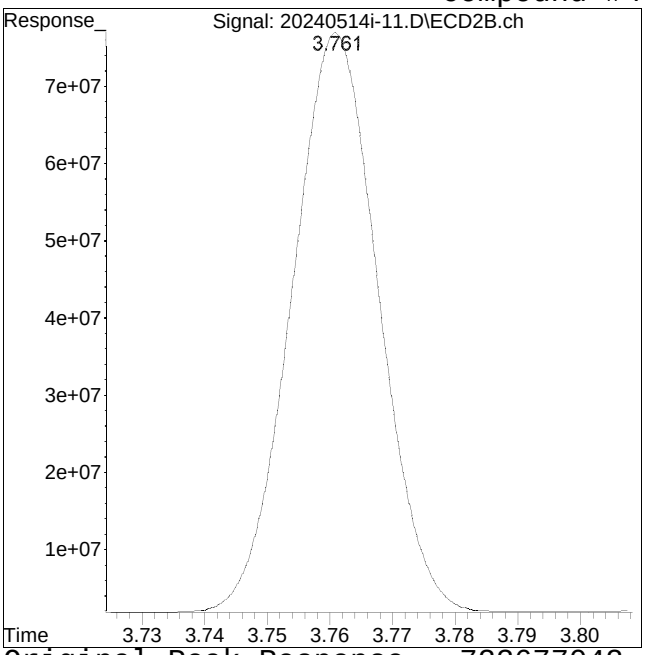
Manual Peak Response = 507228255 M4

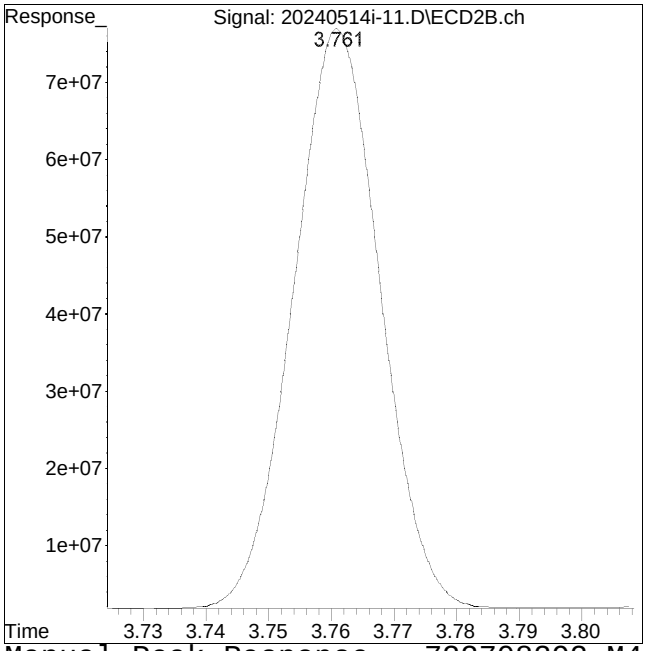
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-11.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:37 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11577 L0.Quant Date : 5/16/2024 9:32 am

Compound #45: delta-BHC #2



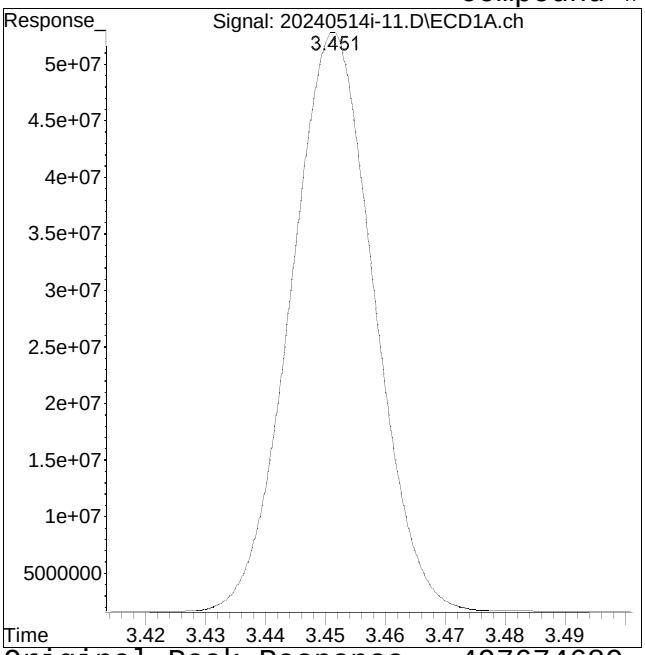


Original Peak Response = 723677042 Manual Peak Response = 722708292 M4
M4 = Poor automated baseline construction.

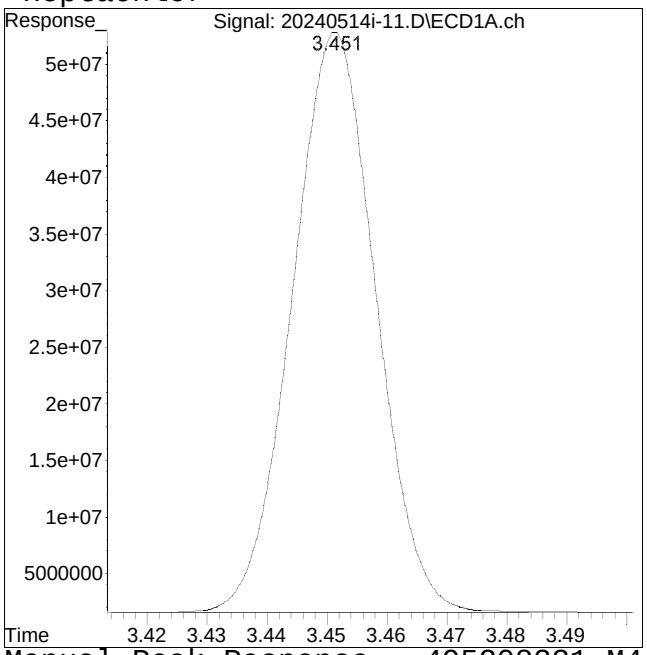
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-11.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:37 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11577 L0.Quant Date : 5/16/2024 9:32 am

Compound #8: Heptachlor



Original Peak Response = 497674689



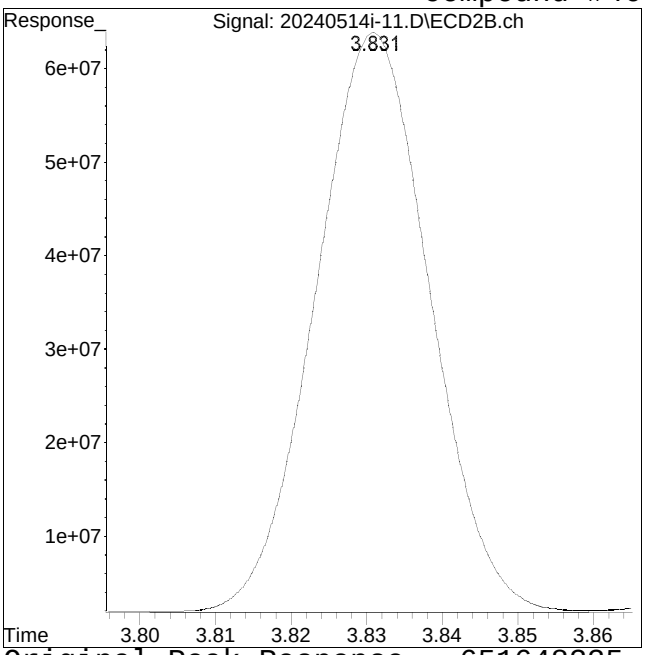
Manual Peak Response = 495208331 M4

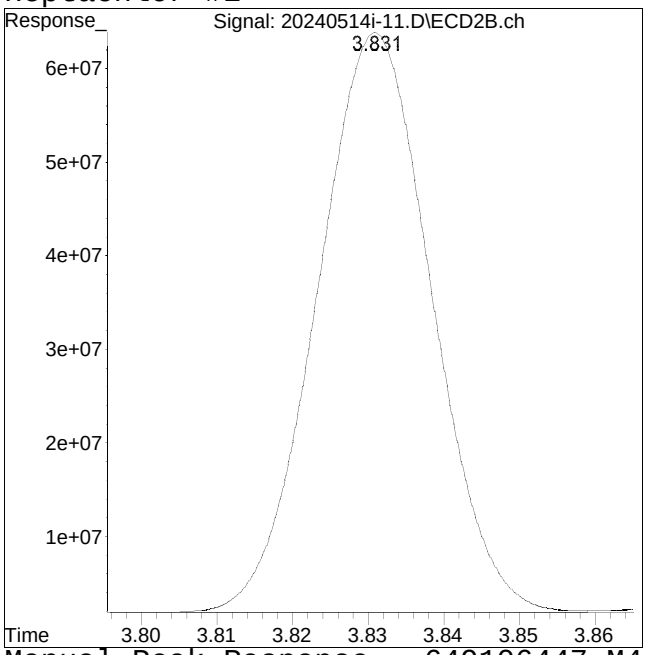
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-11.D
Date Inj'd : 5/14/2024 6:37 pm
Sample : il10pest,42e,,pp 11577 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 9:32 am

Compound #46: Heptachlor #2



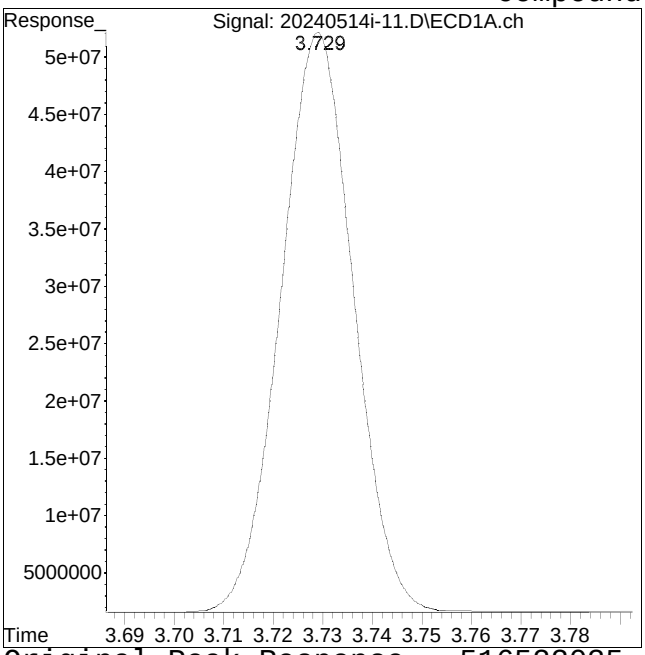


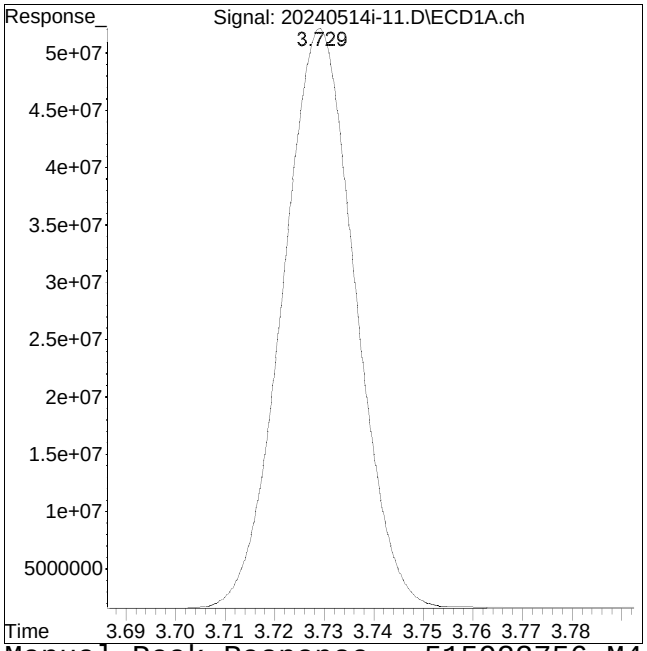
Original Peak Response = 651648335 Manual Peak Response = 649106447 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-11.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:37 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11577 L0.Quant Date : 5/16/2024 9:32 am

Compound #9: Aldrin



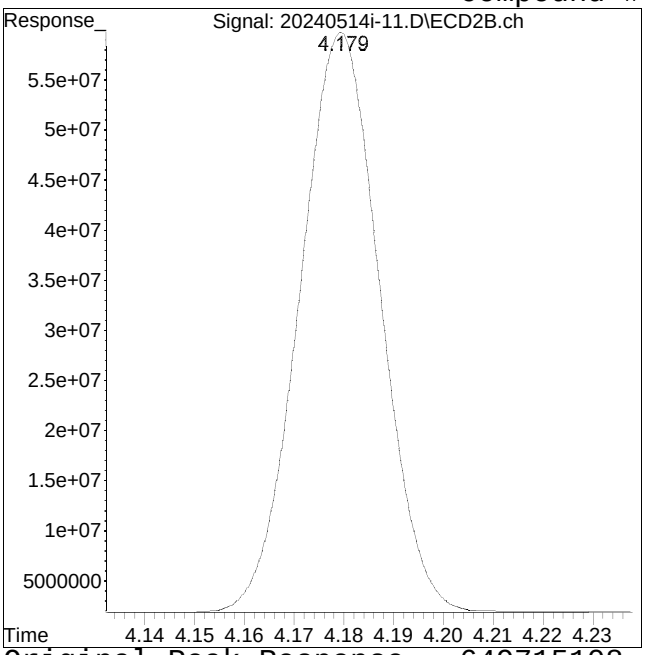


Original Peak Response = 516522035 Manual Peak Response = 515923756 M4
M4 = Poor automated baseline construction.

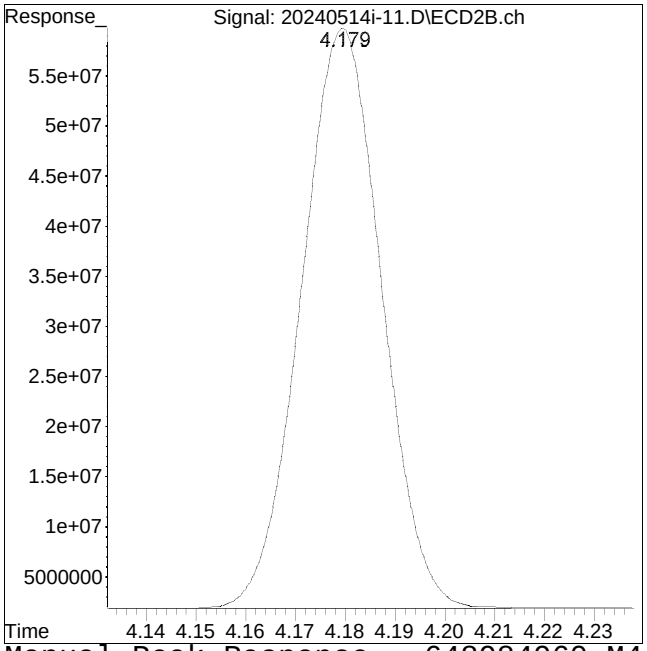
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-11.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:37 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11577 L0.Quant Date : 5/16/2024 9:32 am

Compound #47: Aldrin #2



Original Peak Response = 649715108



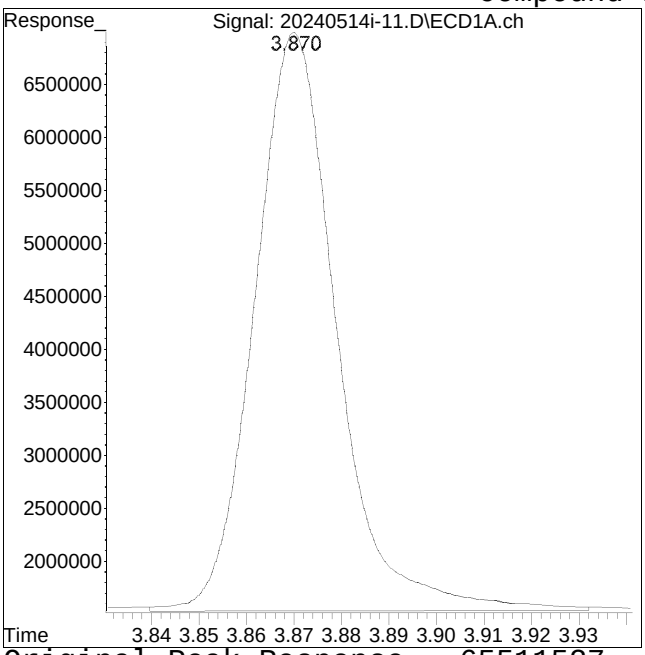
Manual Peak Response = 648984960 M4

M4 = Poor automated baseline construction.

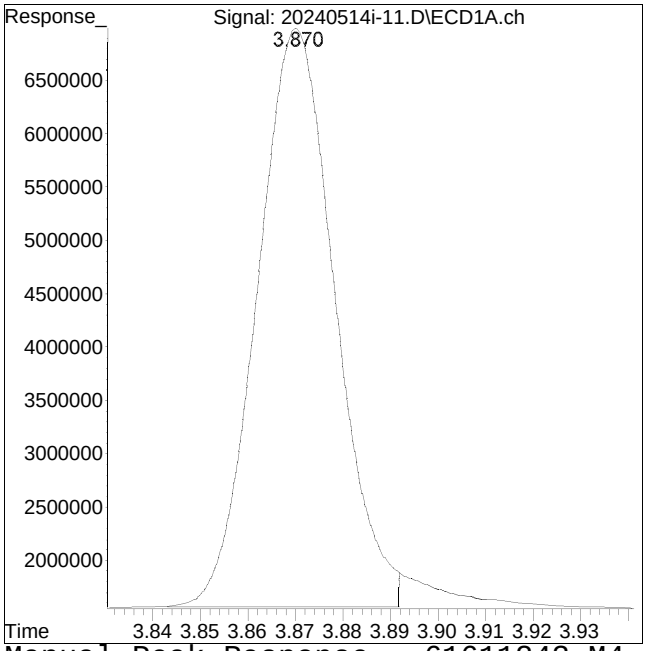
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-11.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:37 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11577 L0.Quant Date : 5/16/2024 9:32 am

Compound #10: Alachlor



Original Peak Response = 65511527



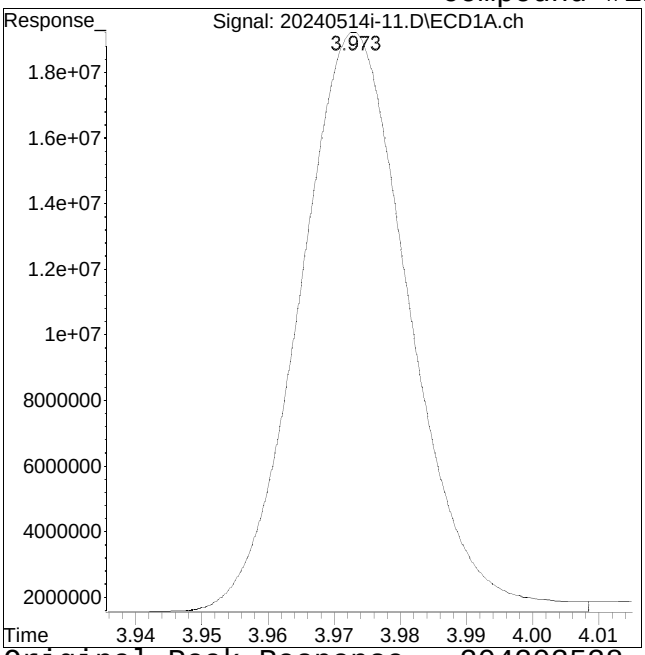
Manual Peak Response = 61611243 M4

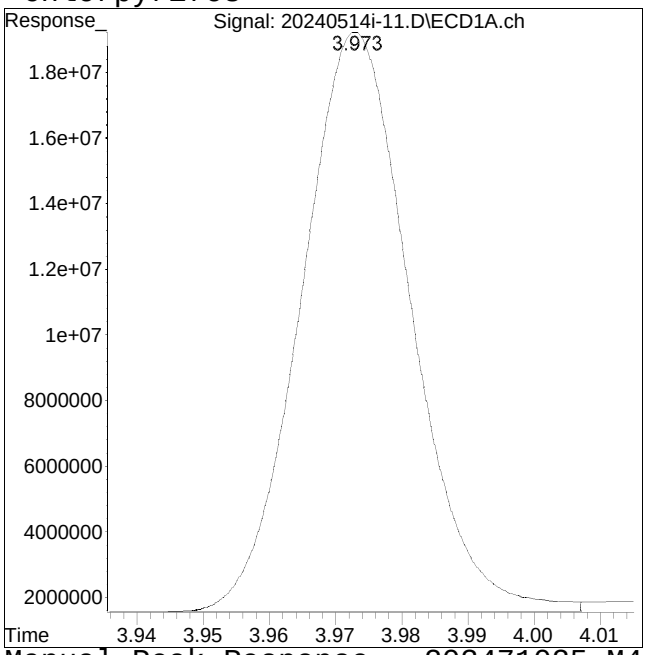
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-11.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:37 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11577 L0.Quant Date : 5/16/2024 9:32 am

Compound #11: Chlorpyrifos



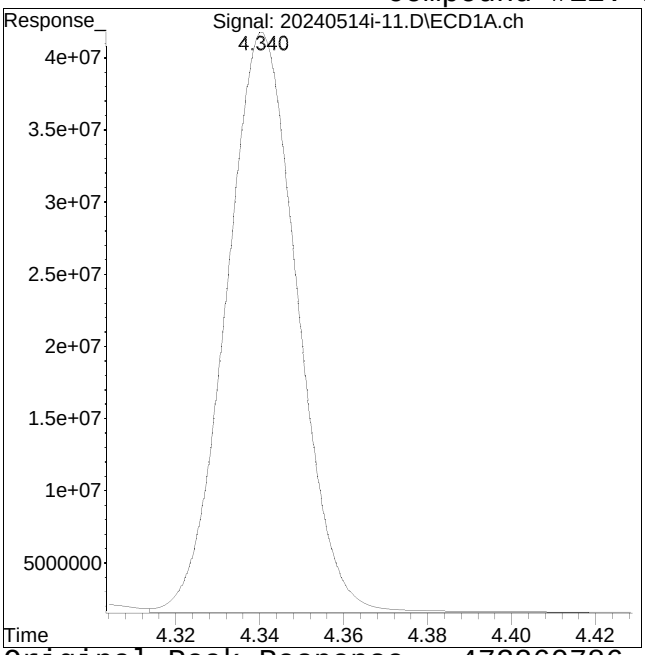


Original Peak Response = 204203538 Manual Peak Response = 203471025 M4
M4 = Poor automated baseline construction.

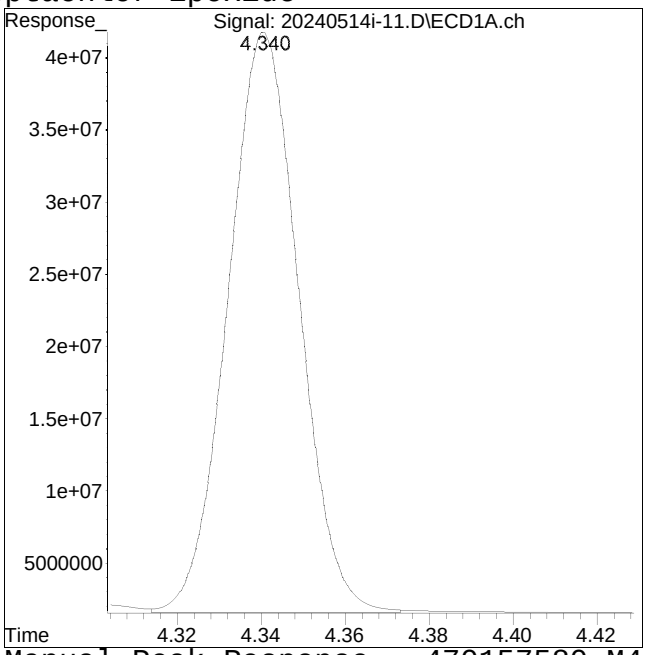
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-11.D
Date Inj'd : 5/14/2024 6:37 pm
Sample : il10pest,42e,,pp 11577 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 9:32 am

Compound #12: Heptachlor Epoxide



Original Peak Response = 473260786



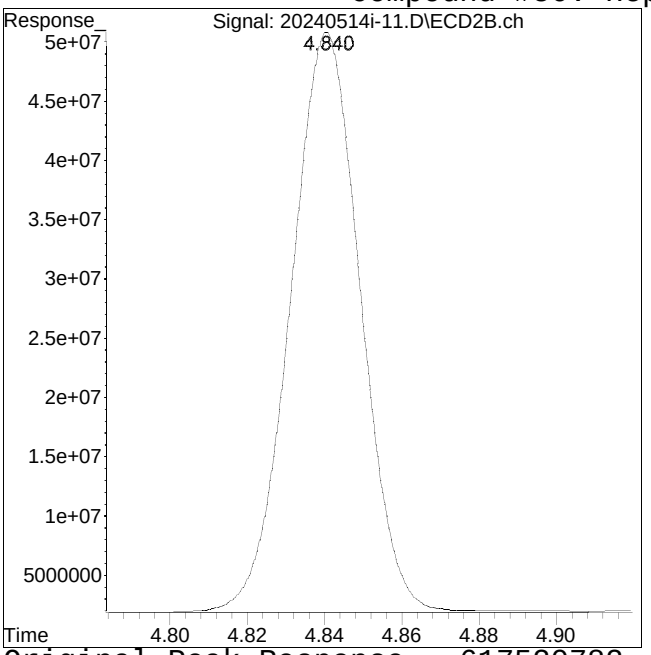
Manual Peak Response = 470157580 M4

M4 = Poor automated baseline construction.

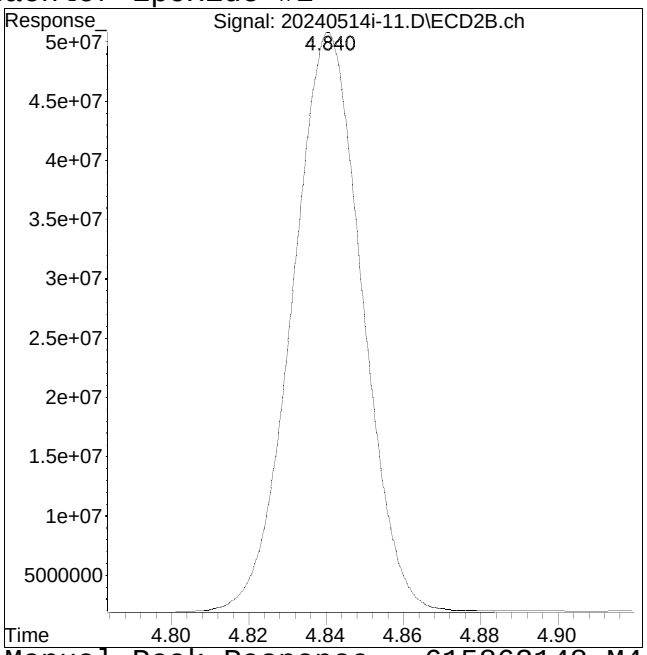
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-11.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:37 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11577 L0.Quant Date : 5/16/2024 9:32 am

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 617520782



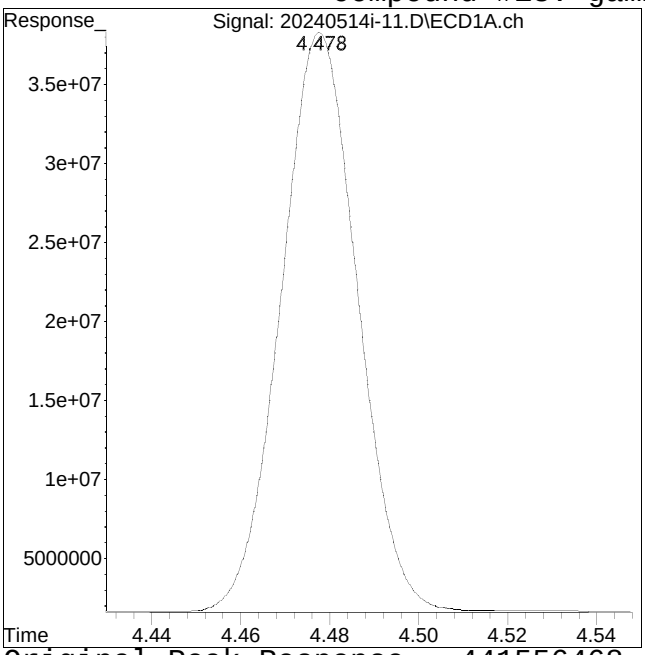
Manual Peak Response = 615863148 M4

M4 = Poor automated baseline construction.

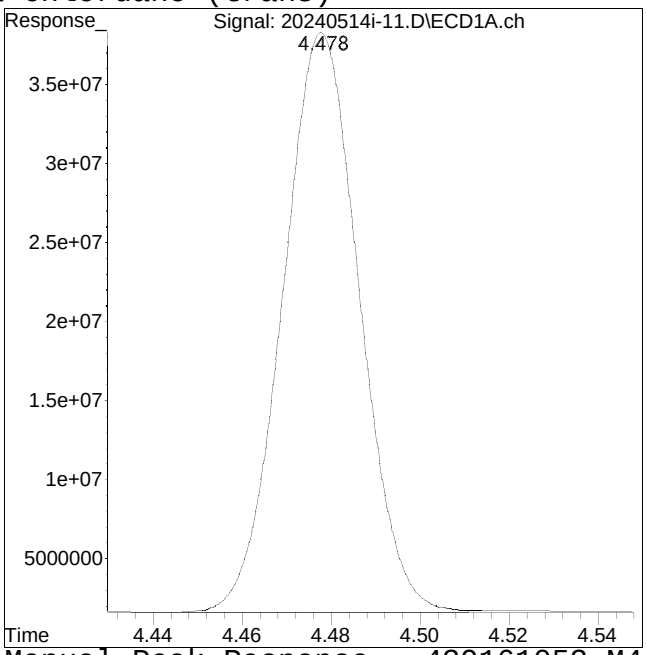
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-11.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:37 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11577 L0.Quant Date : 5/16/2024 9:32 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 441556468

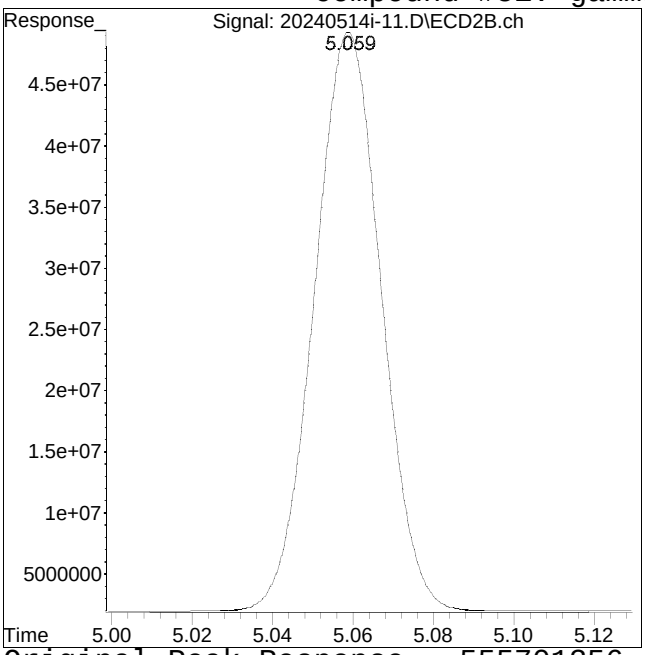


Manual Peak Response = 439161053 M4
M4 = Poor automated baseline construction.

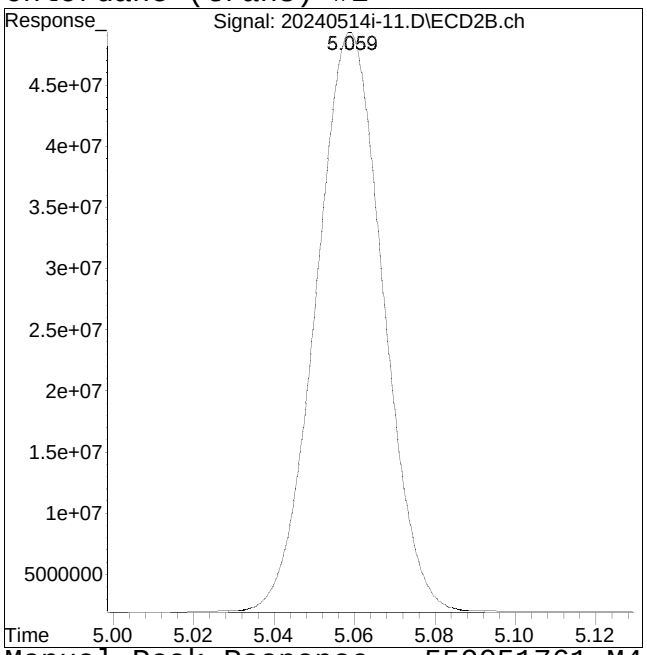
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-11.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:37 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11577 L0.Quant Date : 5/16/2024 9:32 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 555701356



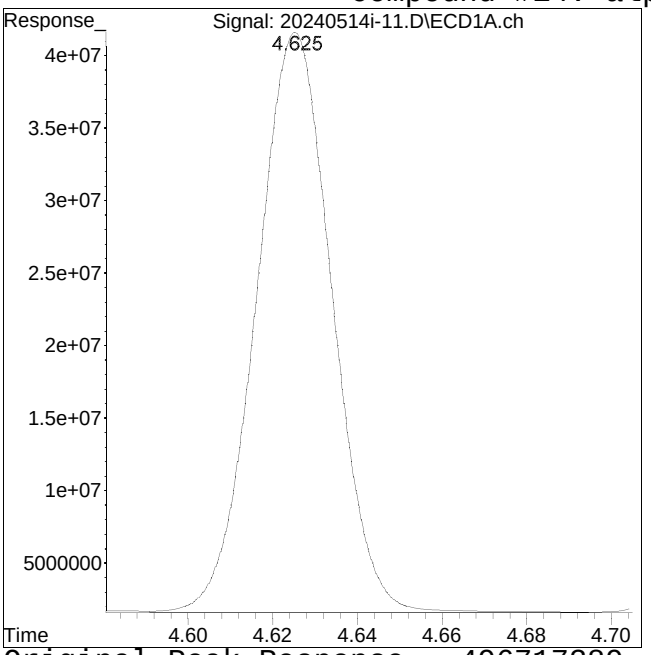
Manual Peak Response = 550051761 M4

M4 = Poor automated baseline construction.

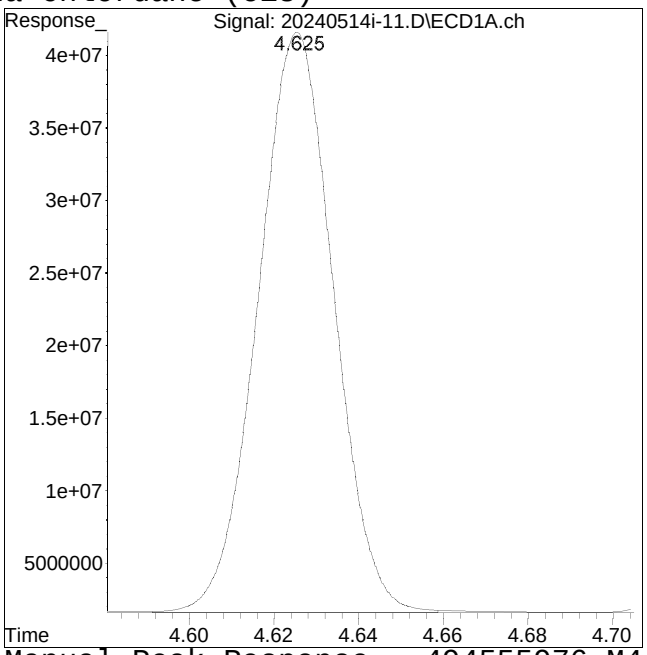
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-11.D
Date Inj'd : 5/14/2024 6:37 pm
Sample : il10pest,42e,,pp 11577 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 9:32 am

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 496717389



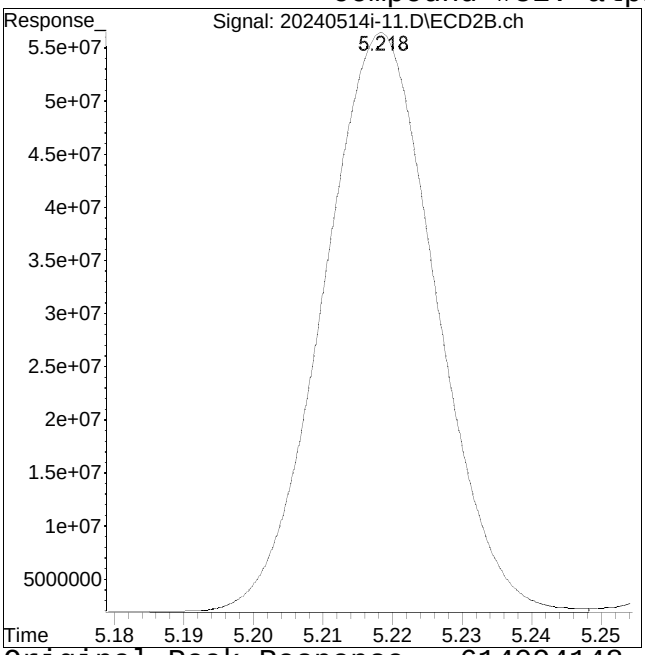
Manual Peak Response = 494555976 M4

M4 = Poor automated baseline construction.

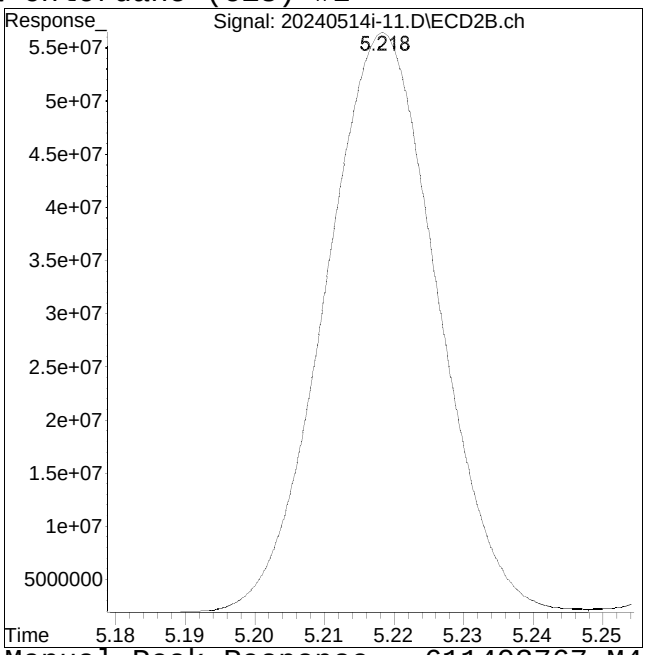
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-11.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:37 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11577 L0.Quant Date : 5/16/2024 9:32 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 614094148



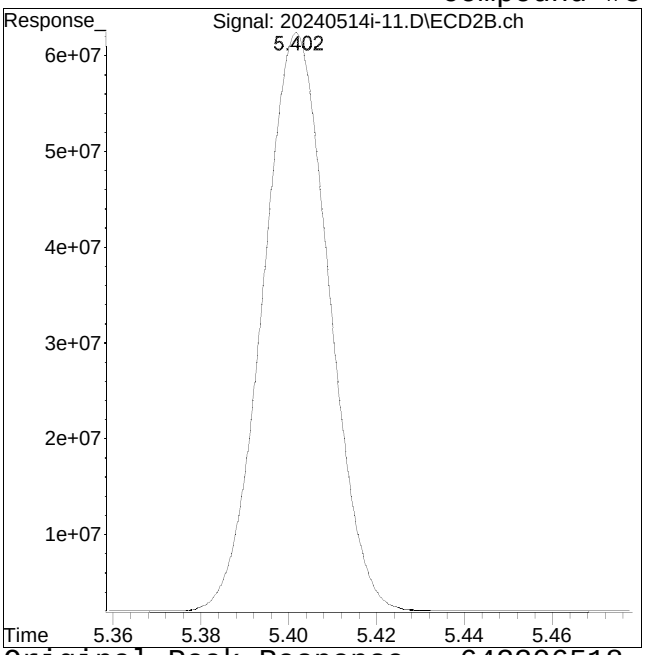
Manual Peak Response = 611403767 M4

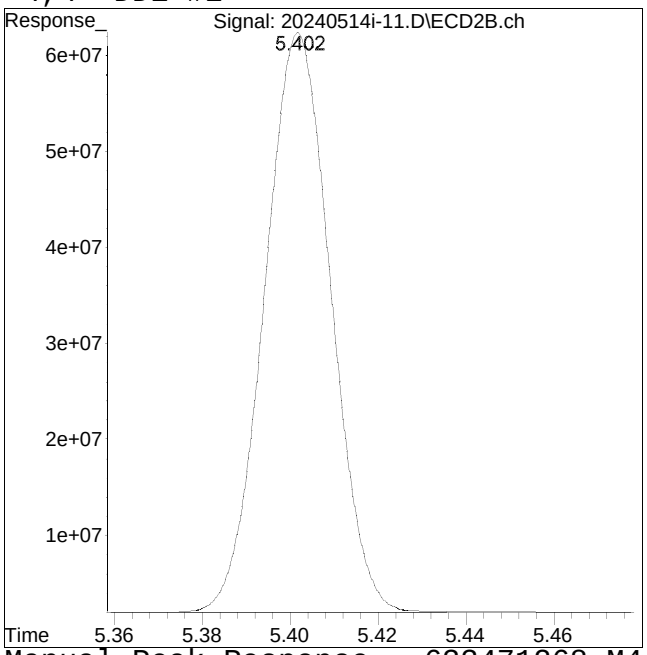
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-11.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:37 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11577 L0.Quant Date : 5/16/2024 9:32 am

Compound #53: 4,4'-DDE #2



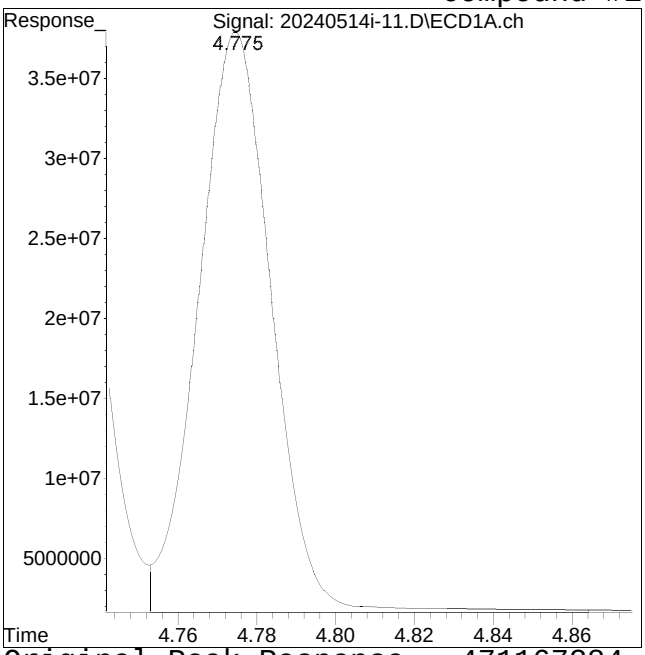


Original Peak Response = 642306518 Manual Peak Response = 633471268 M4
M4 = Poor automated baseline construction.

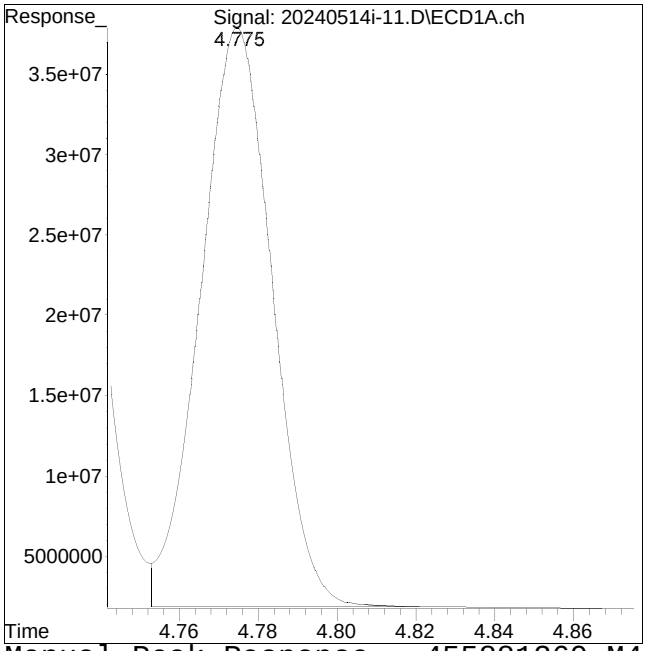
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-11.D
Date Inj'd : 5/14/2024 6:37 pm
Sample : il10pest,42e,,pp 11577 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 9:32 am

Compound #16: Endosulfan I



Original Peak Response = 471167384



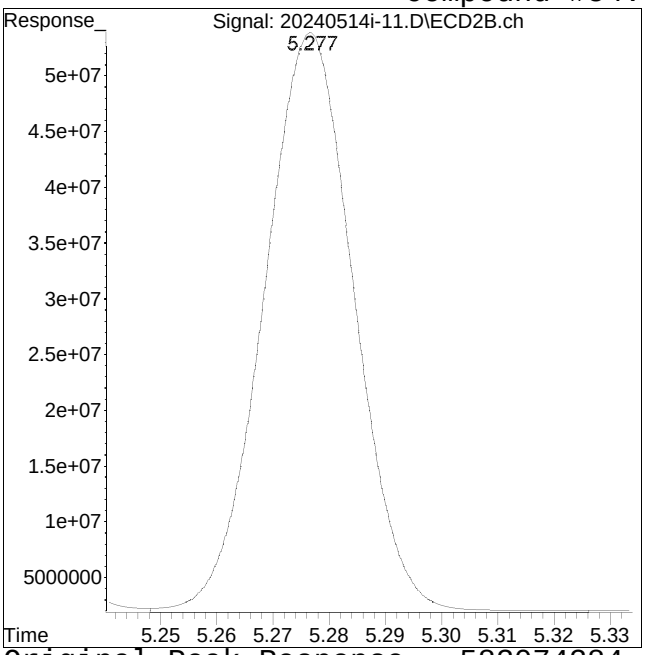
Manual Peak Response = 455881260 M4

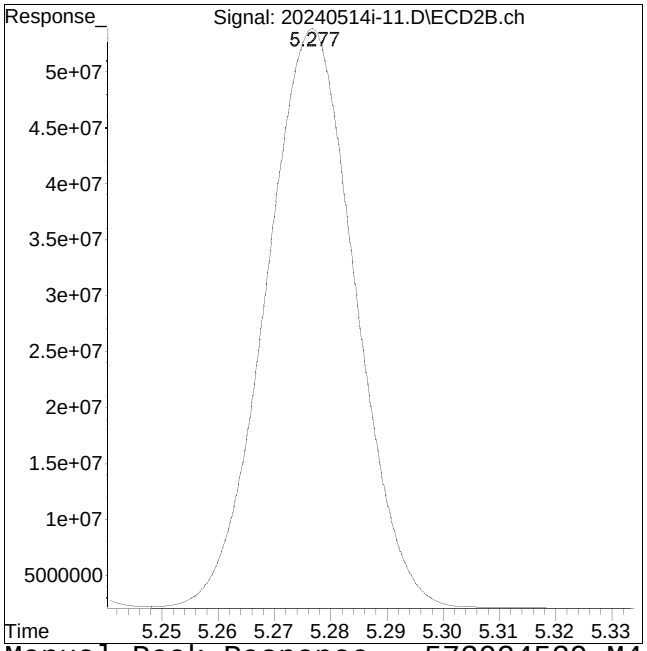
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-11.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:37 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11577 L0.Quant Date : 5/16/2024 9:32 am

Compound #54: Endosulfan I #2





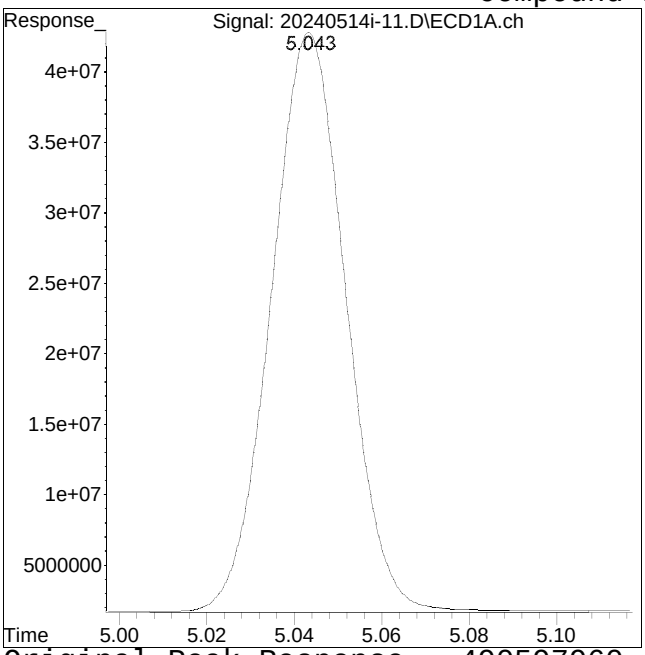
Original Peak Response = 583074384 Manual Peak Response = 573924539 M4
M4 = Poor automated baseline construction.

Manual Integration Report

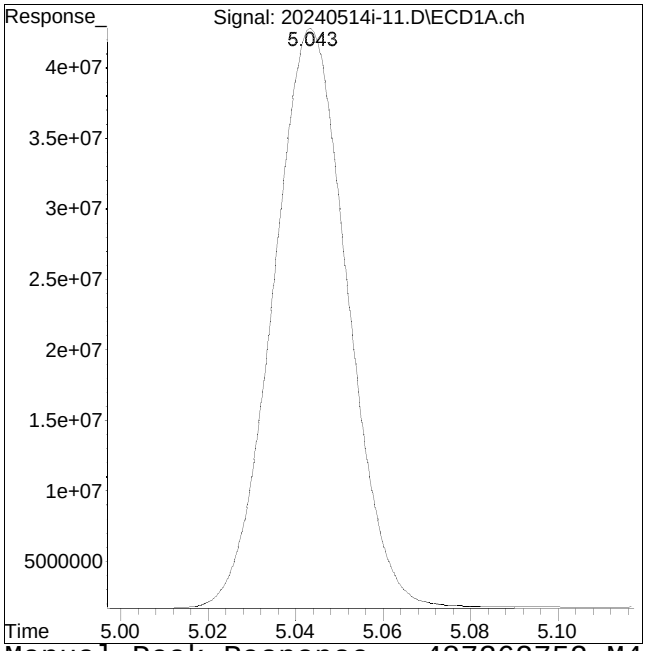
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-11.D
Date Inj'd : 5/14/2024 6:37 pm
Sample : il10pest,42e,,pp 11577 L0.

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 9:32 am

Compound #17: Dieldrin



Original Peak Response = 490597960



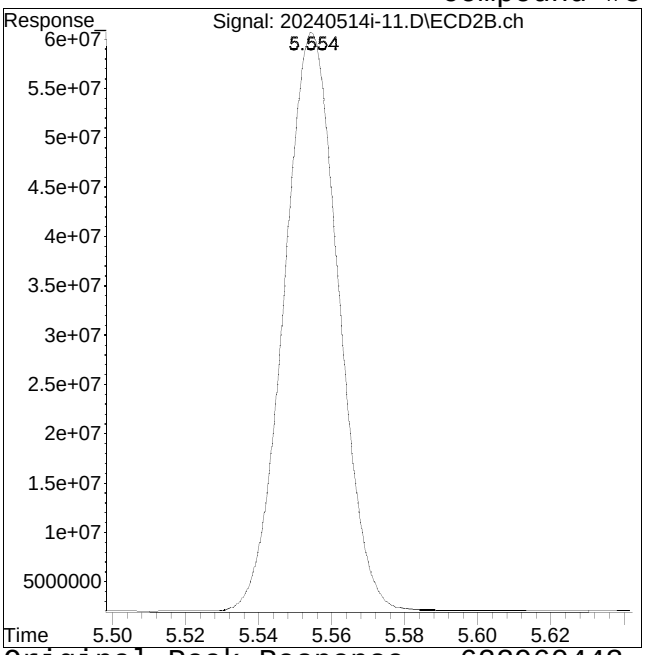
Manual Peak Response = 487362752 M4

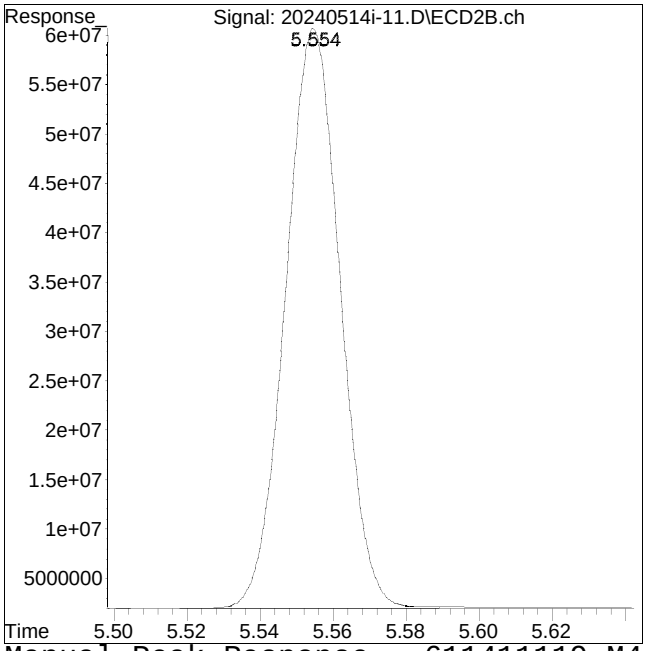
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-11.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:37 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11577 L0.Quant Date : 5/16/2024 9:32 am

Compound #55: Dieldrin #2



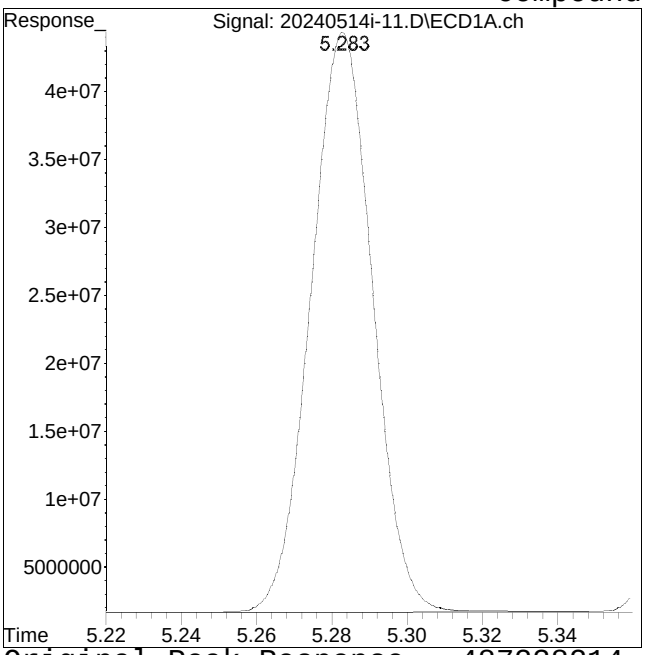


Original Peak Response = 622960443 Manual Peak Response = 611411119 M4
M4 = Poor automated baseline construction.

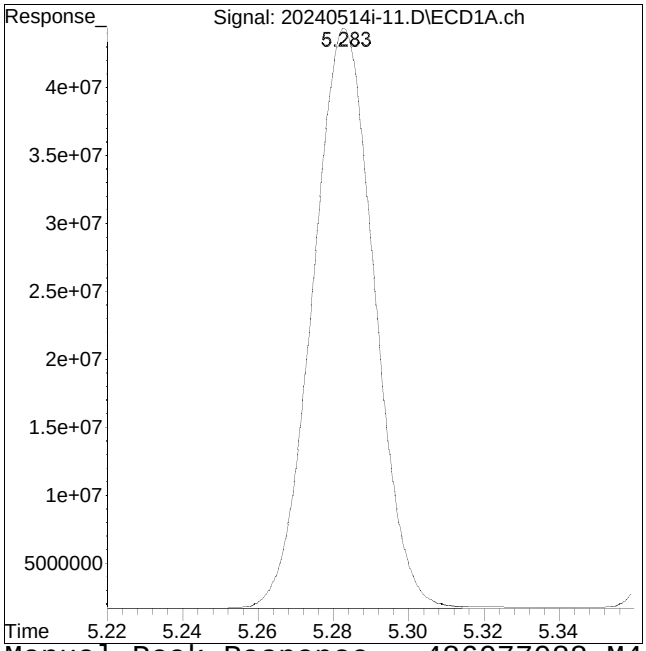
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-11.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:37 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11577 L0.Quant Date : 5/16/2024 9:32 am

Compound #18: Endrin



Original Peak Response = 487238214



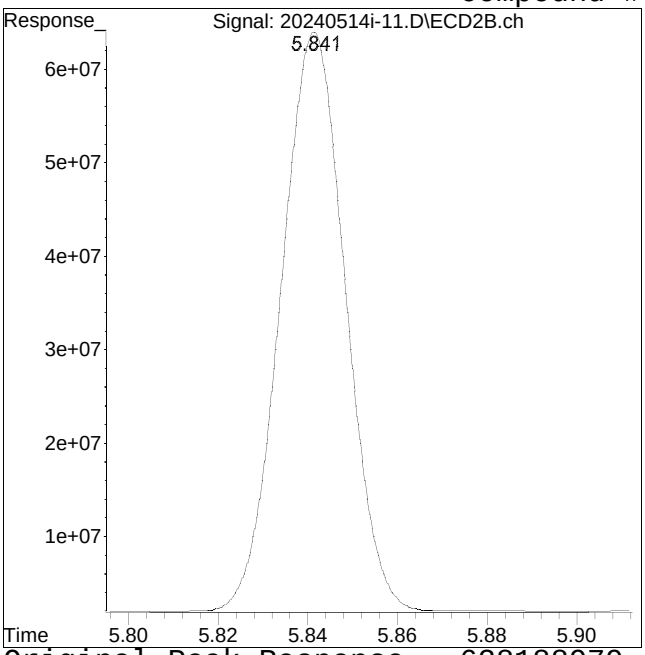
Manual Peak Response = 486077088 M4

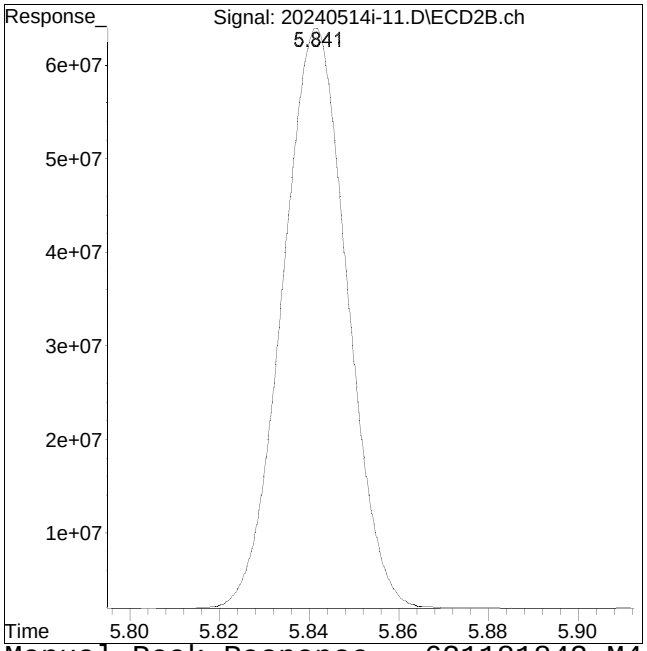
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-11.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:37 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11577 L0.Quant Date : 5/16/2024 9:32 am

Compound #56: Endrin #2





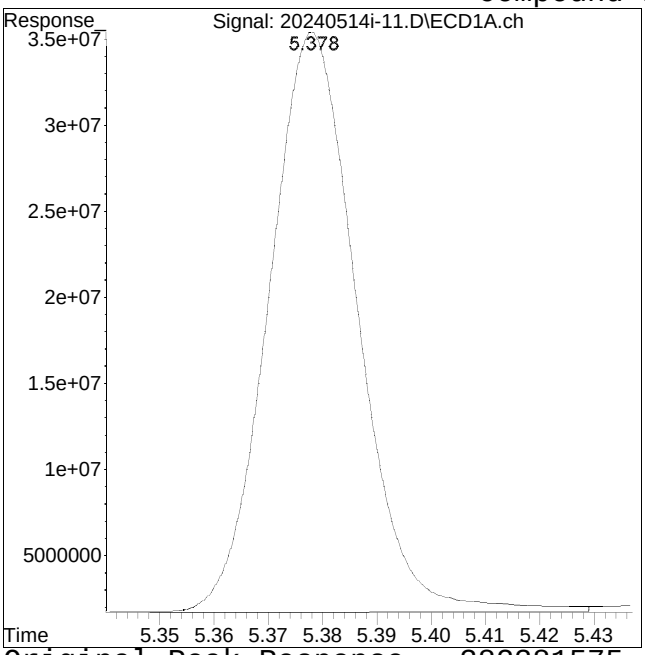
Original Peak Response = 628188979 Manual Peak Response = 621181842 M4
M4 = Poor automated baseline construction.

Manual Integration Report

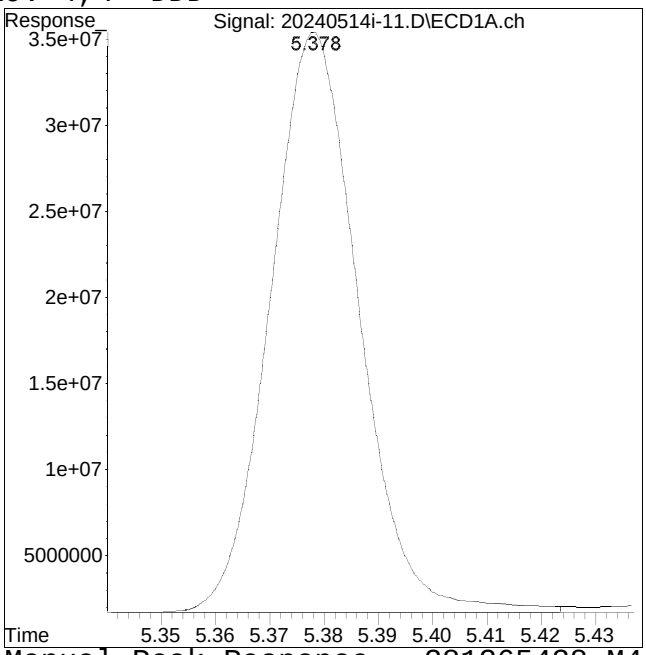
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-11.D
Date Inj'd : 5/14/2024 6:37 pm
Sample : il10pest,42e,,pp 11577 L0.

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 9:32 am

Compound #19: 4,4'-DDD



Original Peak Response = 382381575



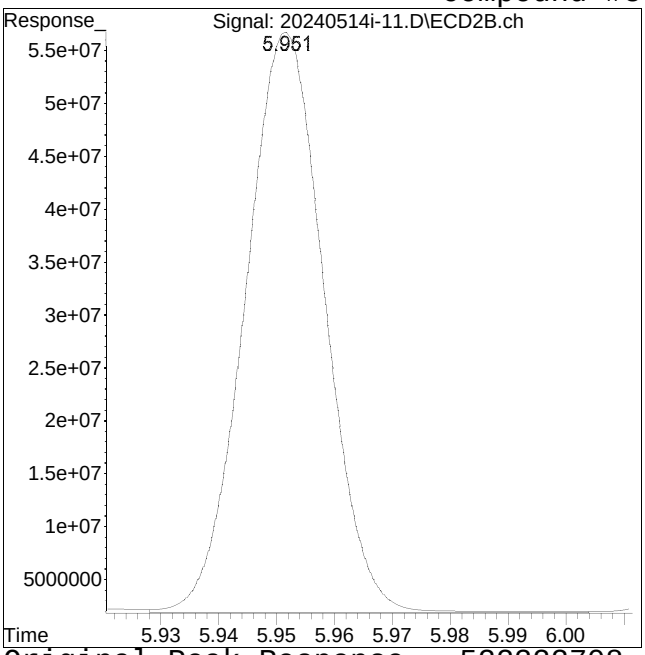
Manual Peak Response = 381365438 M4

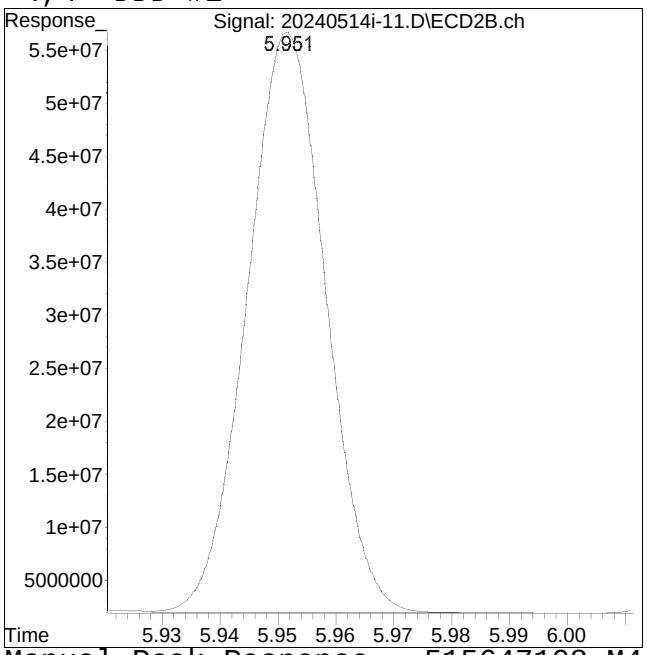
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-11.D
Date Inj'd : 5/14/2024 6:37 pm
Sample : il10pest,42e,,pp 11577 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 9:32 am

Compound #57: 4,4'-DDD #2



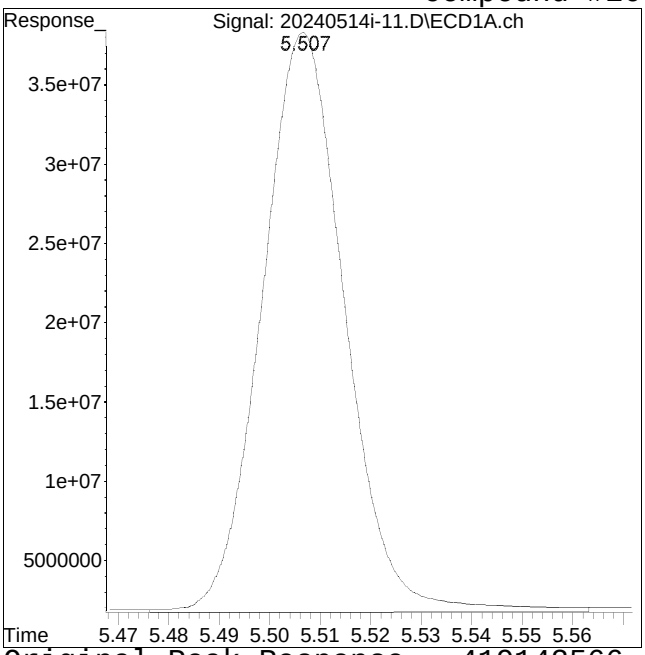


Original Peak Response = 522322708 Manual Peak Response = 515647108 M4
M4 = Poor automated baseline construction.

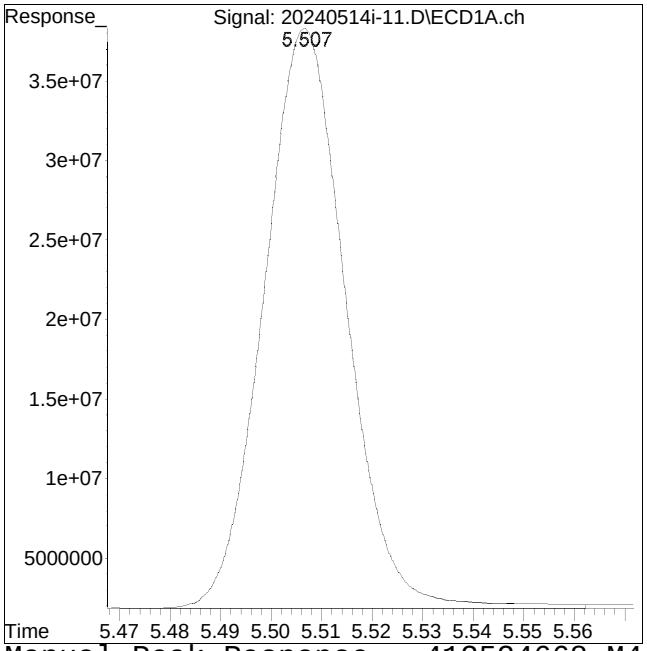
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-11.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:37 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11577 L0.Quant Date : 5/16/2024 9:32 am

Compound #20: Endosulfan II



Original Peak Response = 419142566



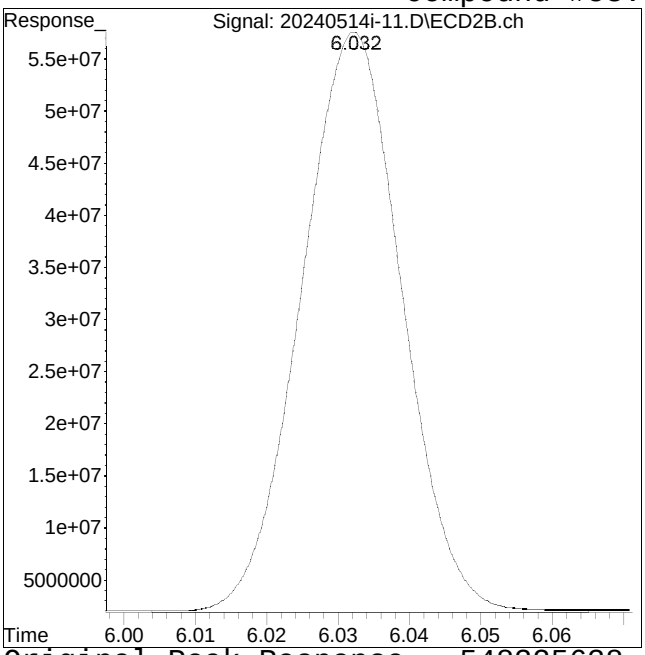
Manual Peak Response = 412524668 M4

M4 = Poor automated baseline construction.

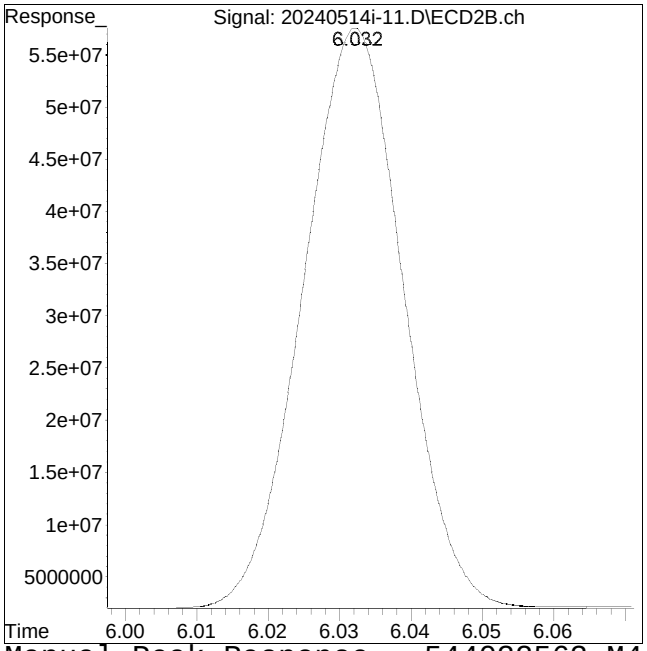
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-11.D
Date Inj'd : 5/14/2024 6:37 pm
Sample : il10pest,42e,,pp 11577 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 9:32 am

Compound #58: Endosulfan II #2



Original Peak Response = 548325638



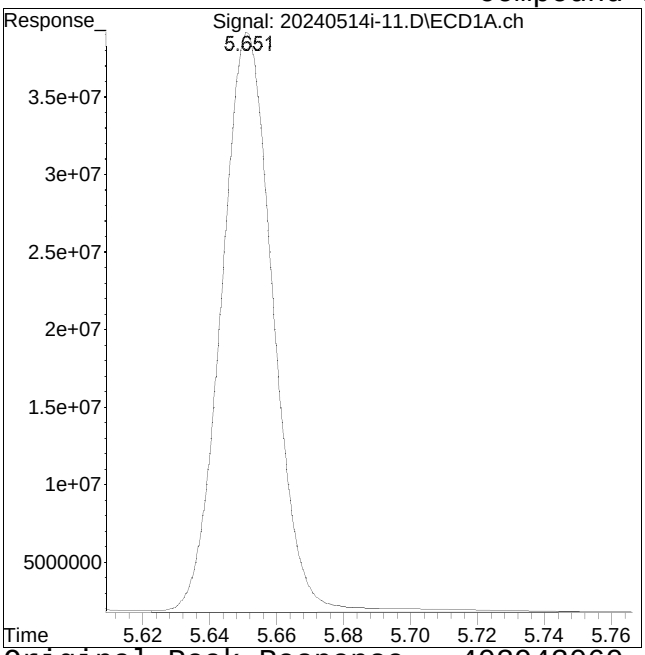
Manual Peak Response = 544032563 M4

M4 = Poor automated baseline construction.

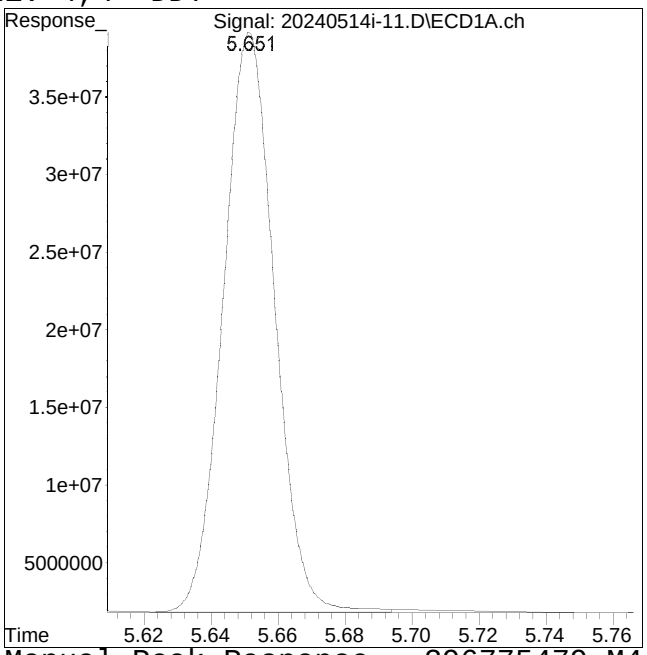
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-11.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:37 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11577 L0.Quant Date : 5/16/2024 9:32 am

Compound #21: 4,4'-DDT



Original Peak Response = 403943060



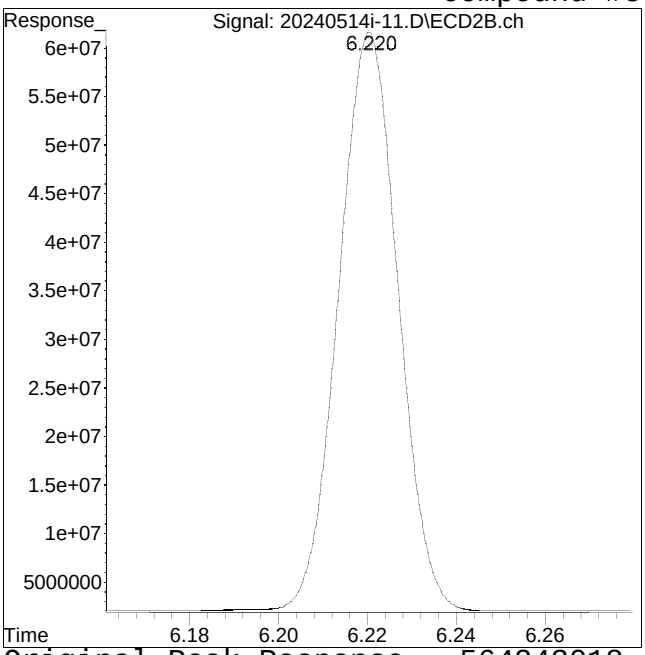
Manual Peak Response = 396775479 M4

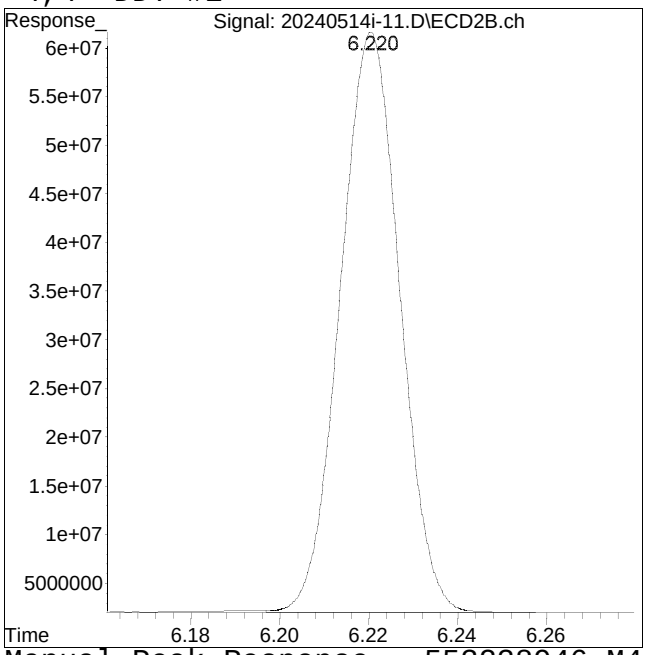
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-11.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:37 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11577 L0.Quant Date : 5/16/2024 9:32 am

Compound #59: 4,4'-DDT #2



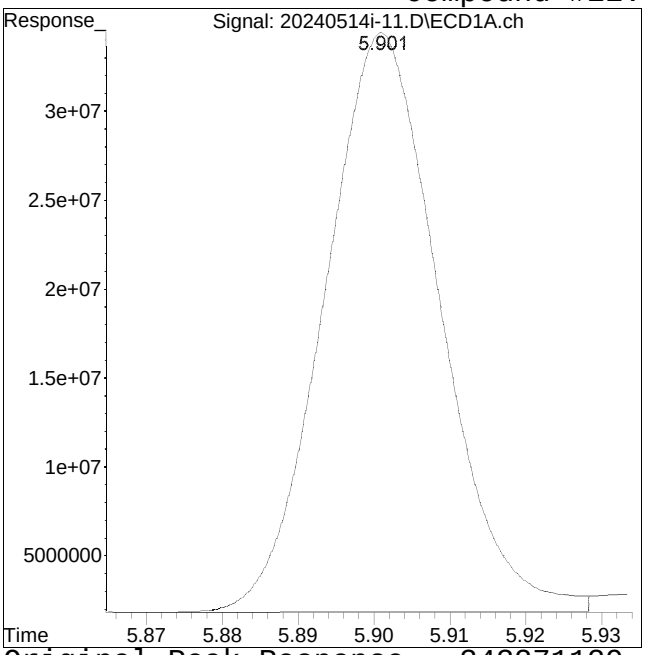


Original Peak Response = 564243018 Manual Peak Response = 553238946 M4
M4 = Poor automated baseline construction.

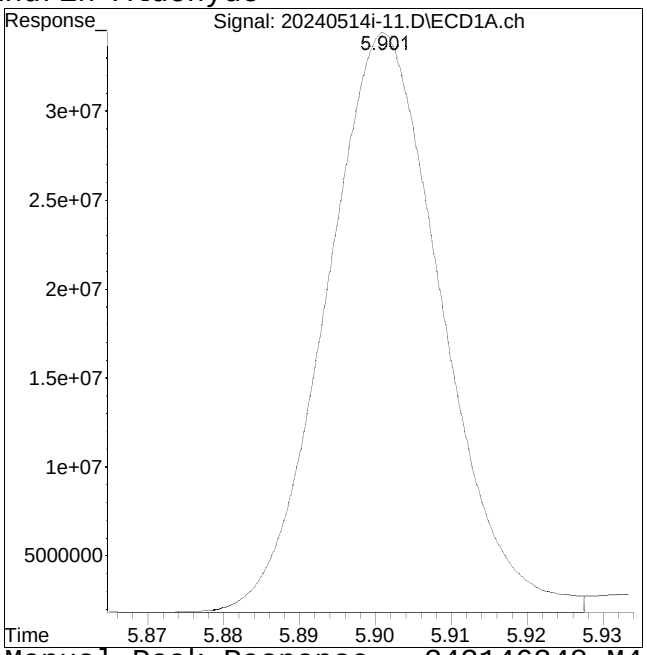
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-11.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:37 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11577 L0.Quant Date : 5/16/2024 9:32 am

Compound #22: Endrin Aldehyde



Original Peak Response = 343271129



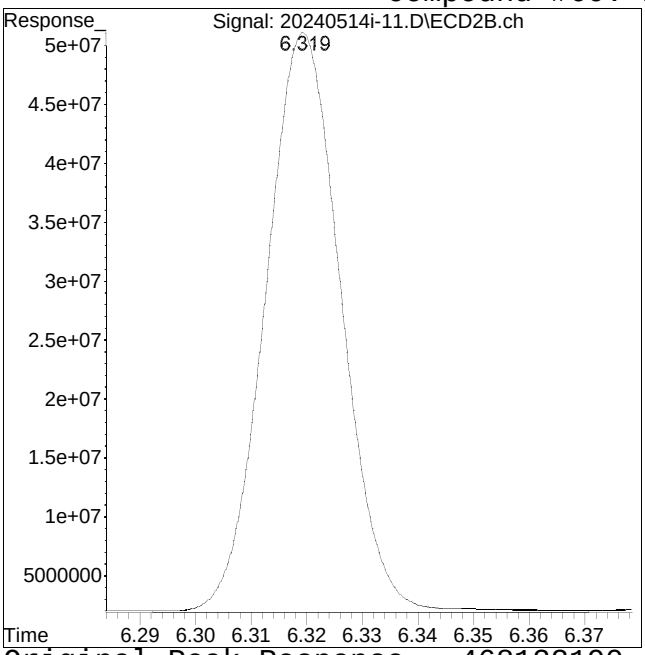
Manual Peak Response = 343146348 M4

M4 = Poor automated baseline construction.

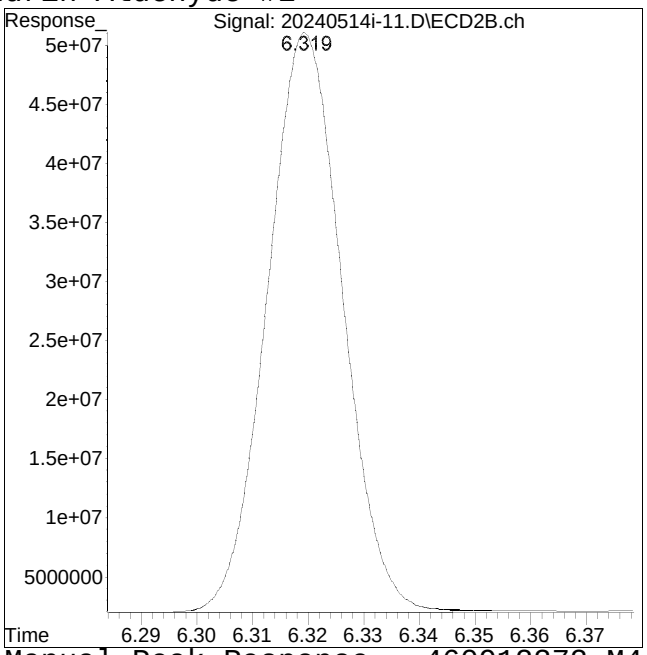
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-11.D
Date Inj'd : 5/14/2024 6:37 pm
Sample : il10pest,42e,,pp 11577 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 9:32 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 468122190



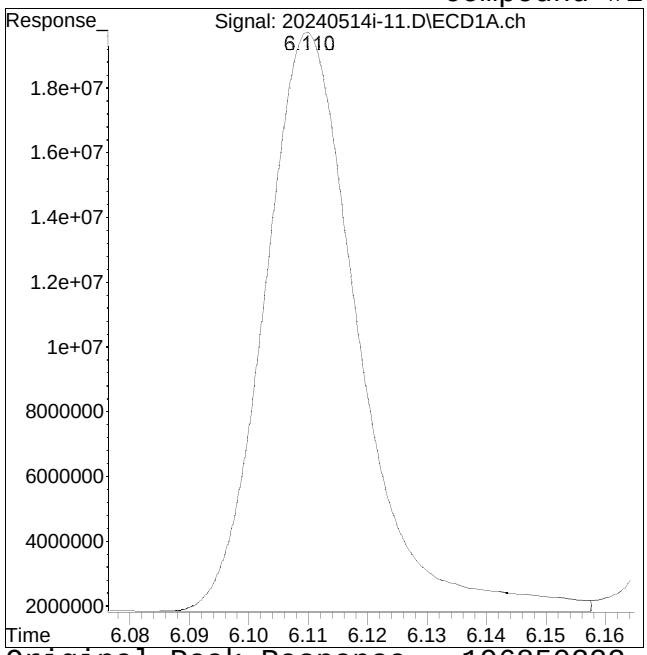
Manual Peak Response = 460912372 M4

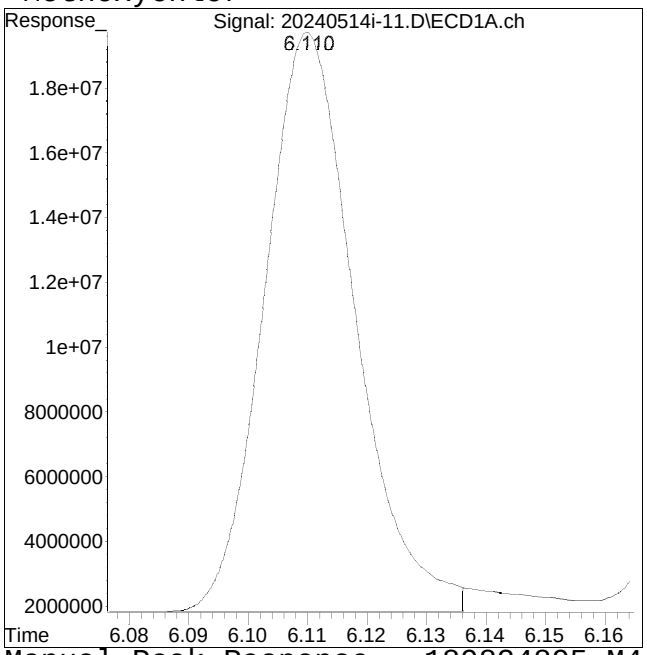
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-11.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:37 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11577 L0.Quant Date : 5/16/2024 9:32 am

Compound #23: Methoxychlor



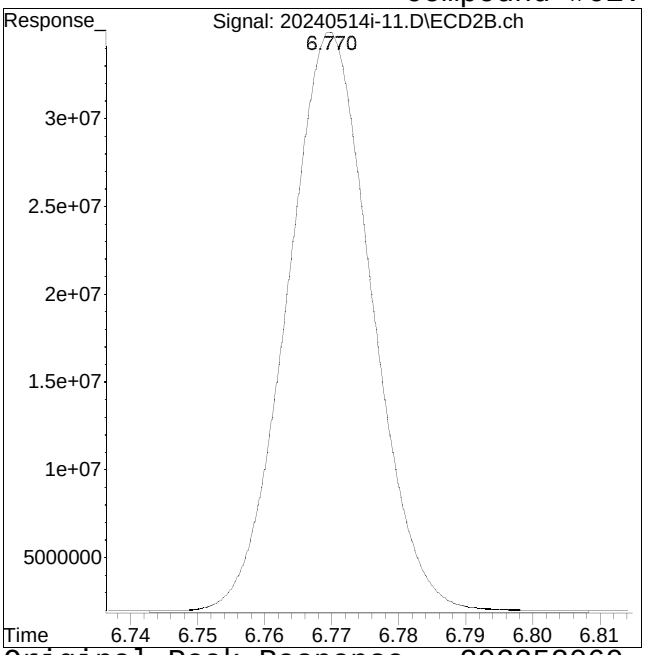


Original Peak Response = 196850222 Manual Peak Response = 189824895 M4
M4 = Poor automated baseline construction.

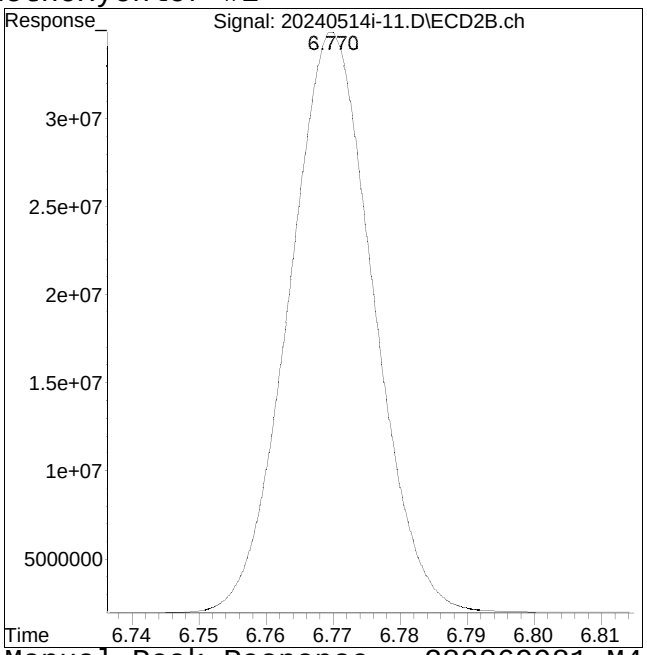
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-11.D
Date Inj'd : 5/14/2024 6:37 pm
Sample : il10pest,42e,,pp 11577 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 9:32 am

Compound #61: Methoxychlor #2



Original Peak Response = 292352060



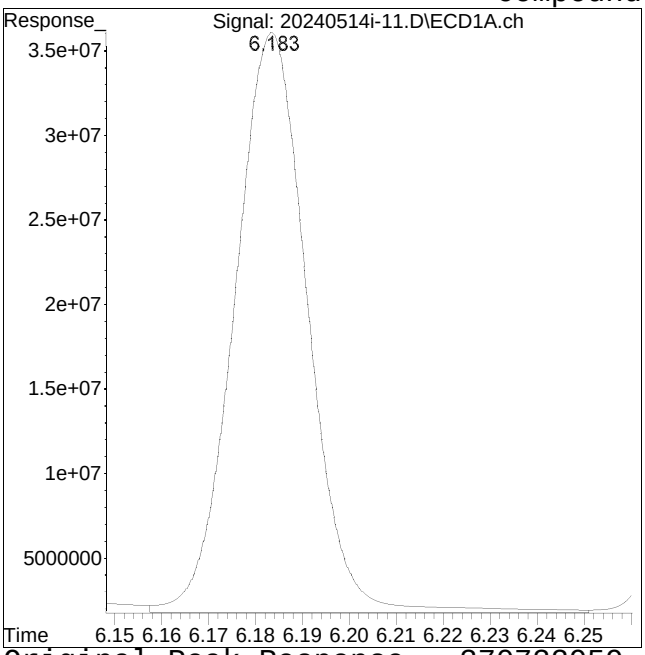
Manual Peak Response = 288269981 M4

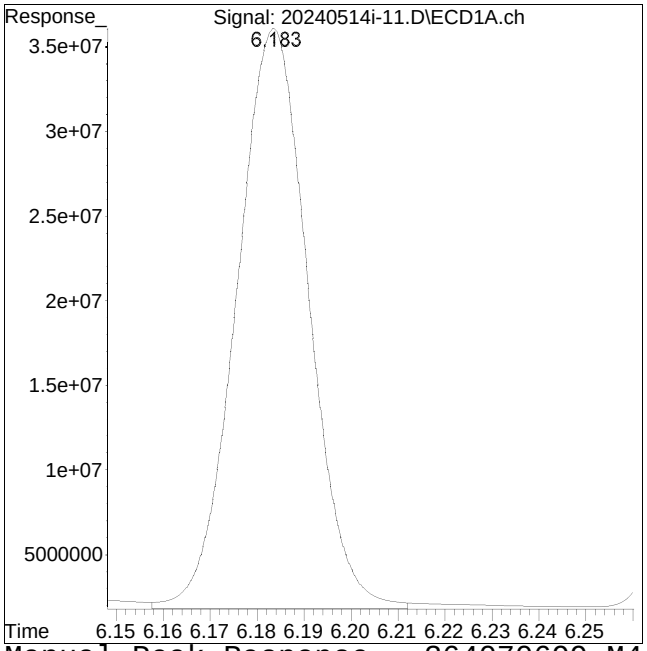
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-11.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:37 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11577 L0.Quant Date : 5/16/2024 9:32 am

Compound #24: Mirex



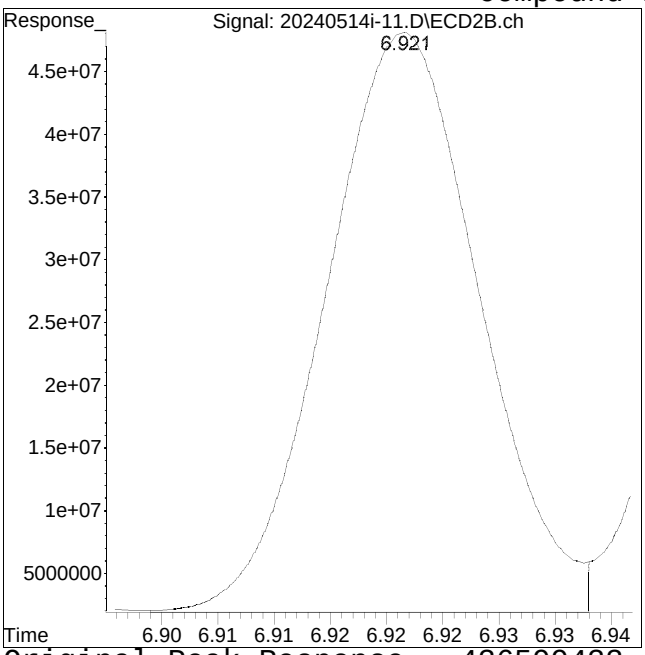


Original Peak Response = 370732959 Manual Peak Response = 364070699 M4
M4 = Poor automated baseline construction.

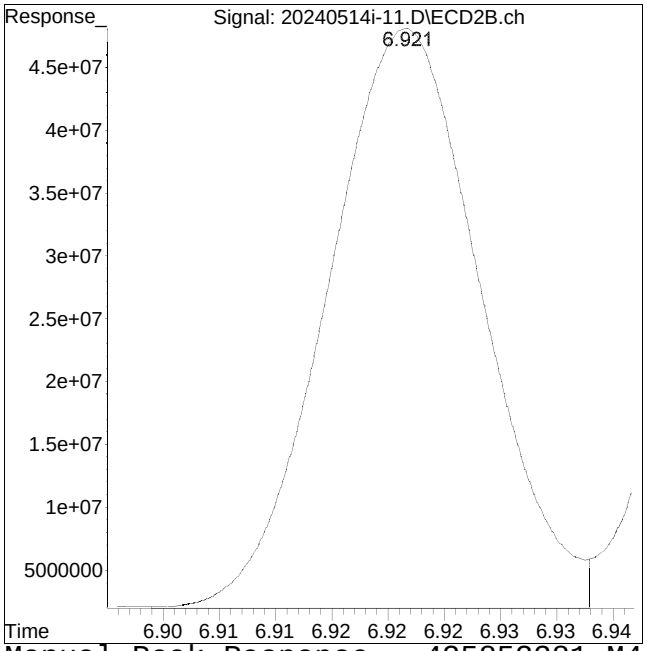
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-11.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:37 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11577 L0.Quant Date : 5/16/2024 9:32 am

Compound #62: Mirex #2



Original Peak Response = 436599433

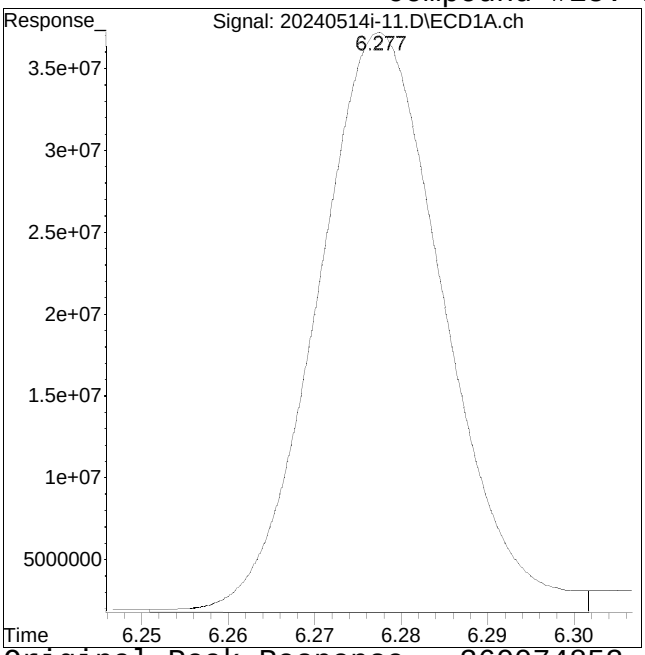


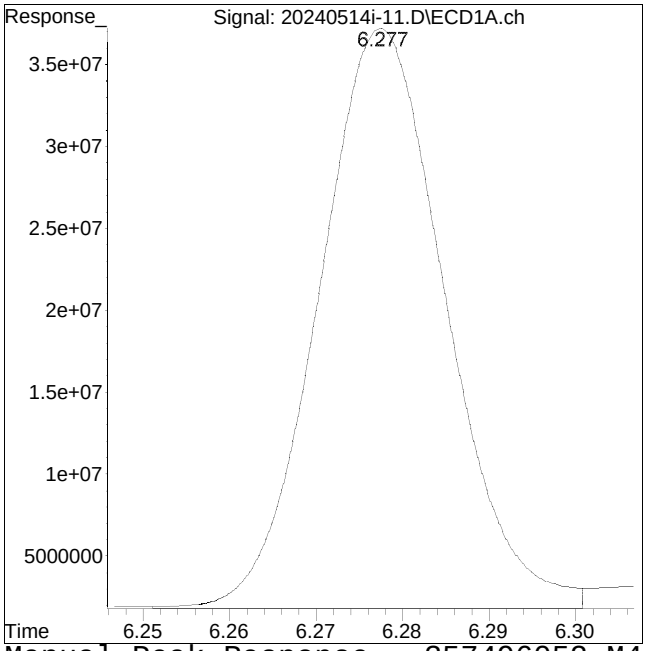
Manual Peak Response = 435853381 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-11.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:37 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11577 L0.Quant Date : 5/16/2024 9:32 am

Compound #25: Endosulfan Sulfate



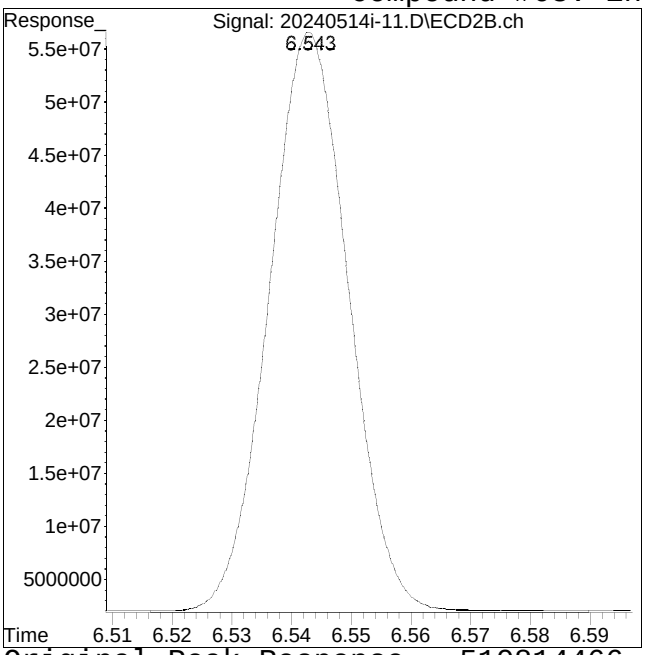


Original Peak Response = 360074853 Manual Peak Response = 357496052 M4
M4 = Poor automated baseline construction.

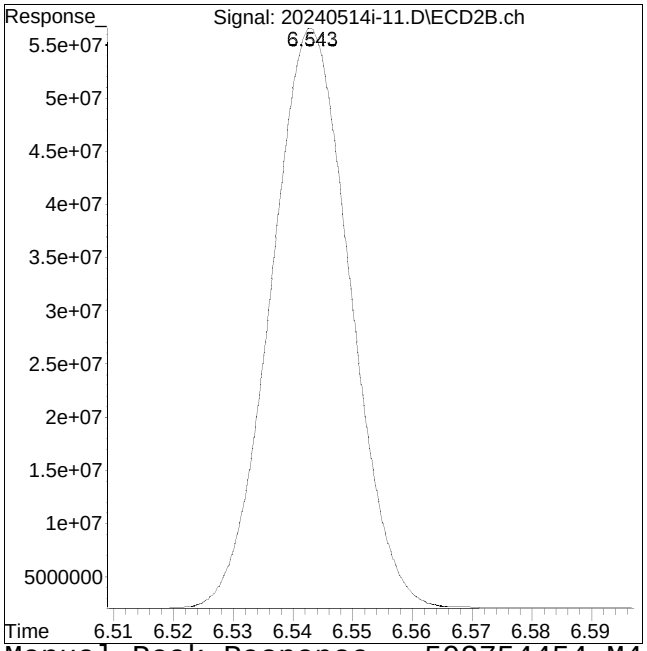
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-11.D
Date Inj'd : 5/14/2024 6:37 pm
Sample : il10pest,42e,,pp 11577 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 9:32 am

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 510814466



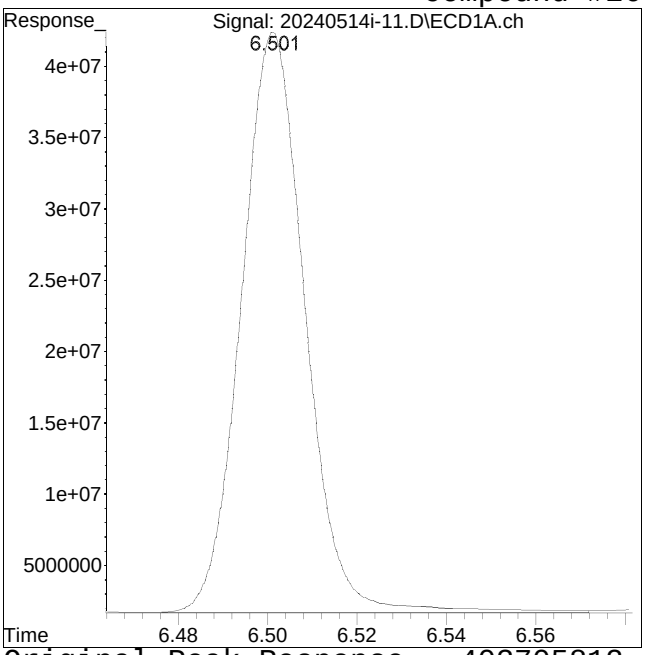
Manual Peak Response = 503754454 M4

M4 = Poor automated baseline construction.

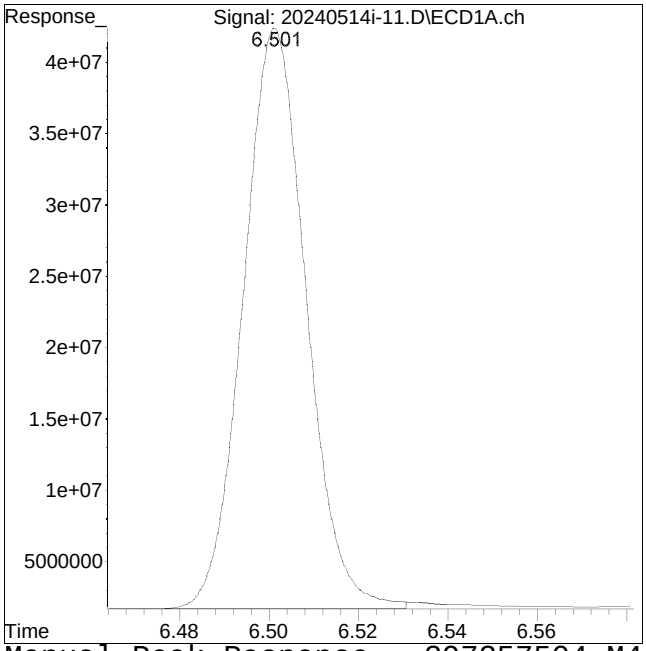
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-11.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:37 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11577 L0.Quant Date : 5/16/2024 9:32 am

Compound #26: Endrin Ketone



Original Peak Response = 403705812



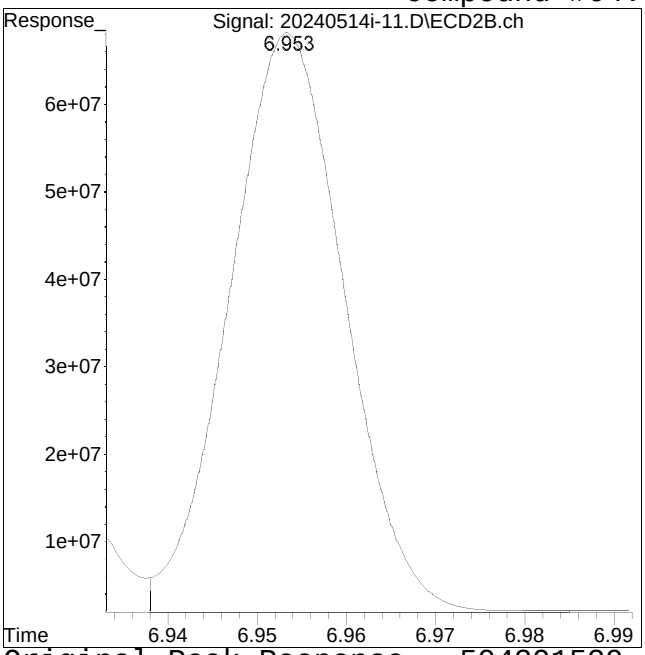
Manual Peak Response = 397357504 M4

M4 = Poor automated baseline construction.

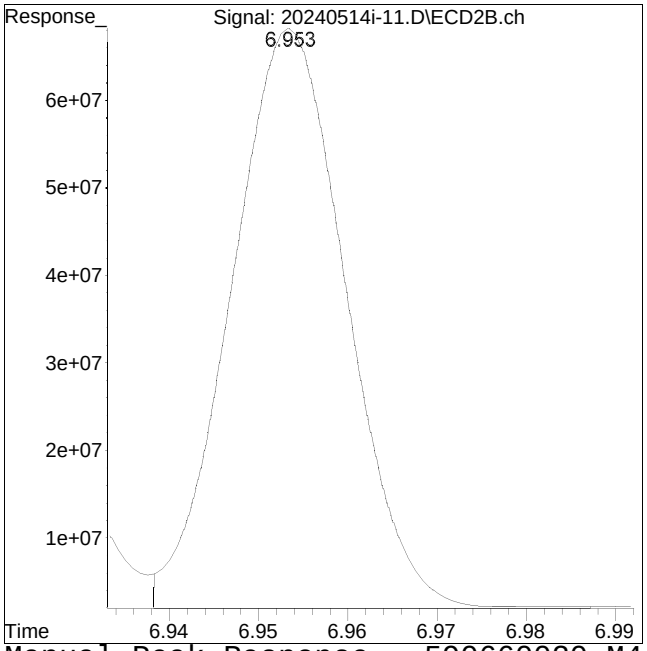
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-11.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:37 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11577 L0.Quant Date : 5/16/2024 9:32 am

Compound #64: Endrin Ketone #2



Original Peak Response = 594391529

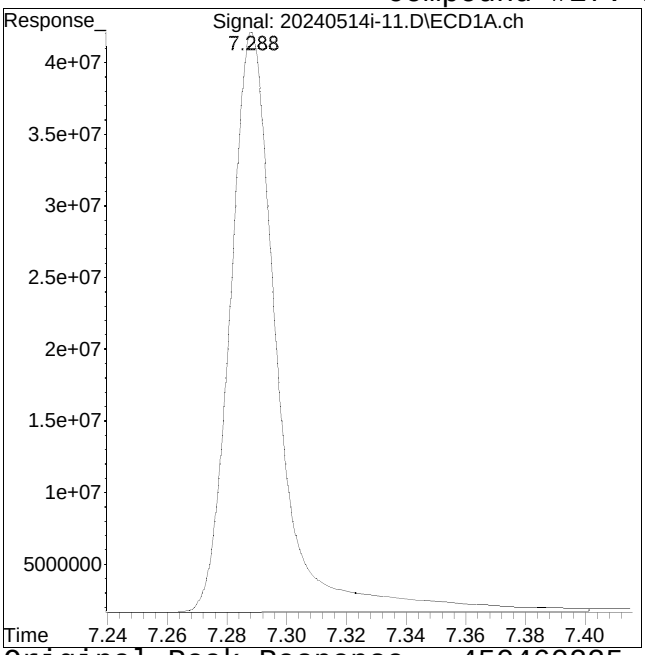


Manual Peak Response = 590660020 M4
M4 = Poor automated baseline construction.

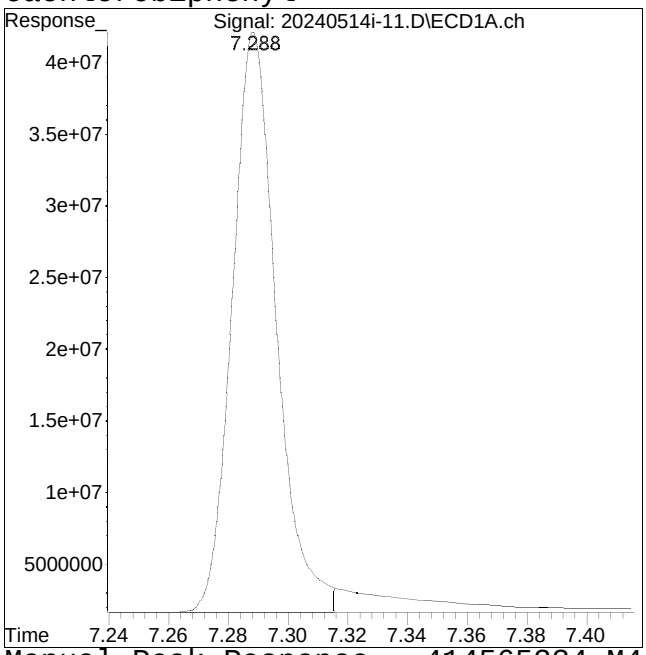
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-11.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:37 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11577 L0.Quant Date : 5/16/2024 9:32 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 450460225



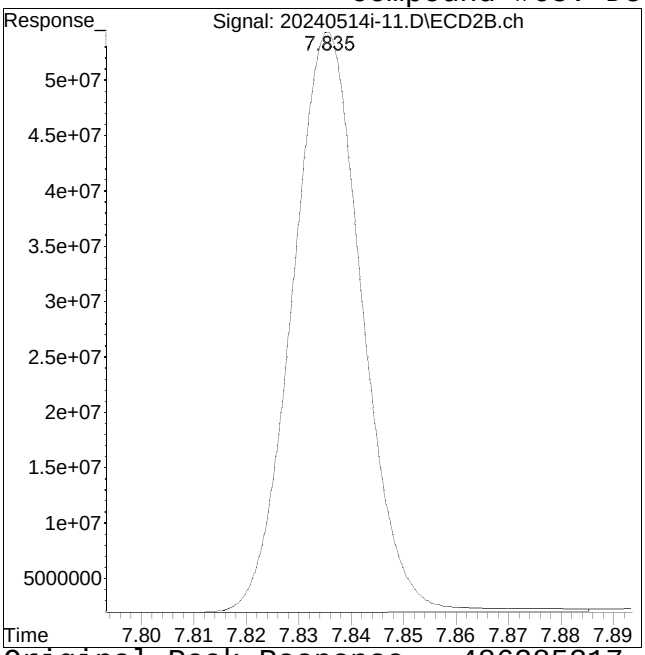
Manual Peak Response = 414565334 M4

M4 = Poor automated baseline construction.

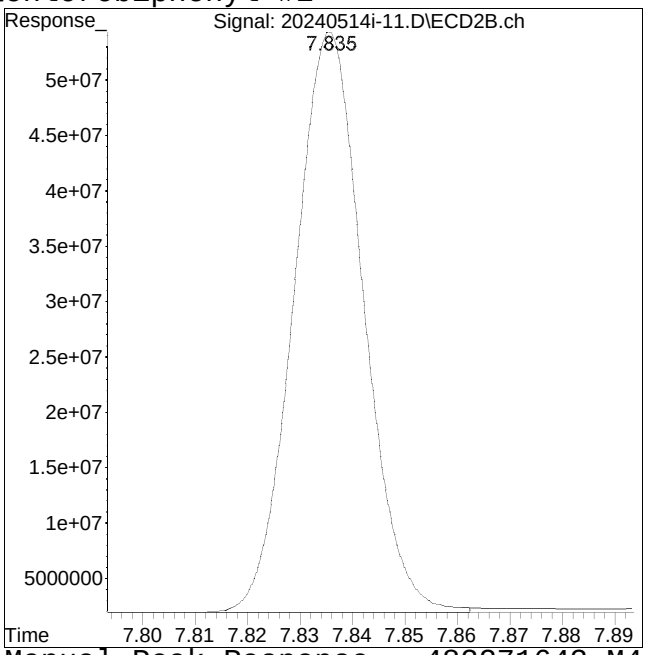
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-11.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:37 pm Instrument : PEST 20
Sample : il10pest,42e,,pp 11577 L0.Quant Date : 5/16/2024 9:32 am

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 486385317



Manual Peak Response = 482271643 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-12.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 06:49 pm
Operator : pest20:peg
Sample : il11pest,42e,,pp 11576 L0.4 (Sig #1); il11pest,42e,,pp 11563 L0.4 (Sig #2)
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 10:11:19 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 10:11:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.933	1.972	54202177	71614384	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.406	2.576	840.3E6	1112.3E6	384.488	386.978M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		768.98%#	773.96%#
27) s	Decachlorobi	7.286	7.833	787.9E6	906.1E6	376.202M4	371.690M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		752.40%#	743.38%#
	Target Compounds						
3)	Hexachlorobe	2.675	2.953	853.1E6	1130.3E6	381.138M4	385.256M4
4)	alpha-BHC	2.798	3.068	1138.1E6	1555.6E6	396.265M4	401.434M4
5)	gamma-BHC (l	3.043	3.391	1028.9E6	1408.2E6	393.965M4	399.112M4
6)	beta-BHC	3.112	3.466	458.4E6	624.4E6	384.958M4	388.067M3
7)	delta-BHC	3.262	3.761	1032.7E6	1459.6E6	410.401M4	407.288M4
8)	Heptachlor	3.450	3.831	966.9E6	1274.0E6	387.701M4	392.087M4
9)	Aldrin	3.728	4.179	1008.9E6	1275.0E6	391.317M4	395.519M4
10)	Alachlor	3.868	4.056	114.8E6	158.9E6	349.267M4	357.257M4
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-12.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 06:49 pm
Operator : pest20:peg
Sample : il11pest,42e,,pp 11576 L0.4 (Sig #1); il11pest,42e,,pp 11563 L0.4 (Sig #2)
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 10:11:19 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 10:11:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)		Heptachlor E	4.339	4.840	911.0E6	1201.4E6	384.597M4	391.011M4
13)		gamma-Chlord	4.477	5.059	858.6E6	1081.2E6	390.890M4	394.986M4
14)		alpha-Chlord	4.624	5.218	959.2E6	1193.5E6	387.289M4	392.064M4
15)		4,4'-DDE	4.729	5.402	971.5E6	1223.3E6	395.913M4	391.690M4
16)		Endosulfan I	4.773	5.276	881.9E6	1119.9E6	384.138M4	391.294M4
17)		Dieldrin	5.042	5.555	943.5E6	1192.6E6	389.601M4	394.316M4
18)		Endrin	5.282	5.841	938.3E6	1206.9E6	388.072M4	393.164M4
19)		4,4'-DDD	5.377	5.952	749.5E6	1001.9E6	399.539M4	394.682M4
20)		Endosulfan I	5.505	6.032	800.3E6	1049.6E6	388.774M4	388.840M4
21)		4,4'-DDT	5.650	6.220	775.0E6	1065.0E6	398.399M4	391.624M4
22)		Endrin Aldeh	5.900	6.319	672.3E6	885.2E6	396.223M4	388.571M4
23)		Methoxychlor	6.109	6.769	369.2E6	539.0E6	378.607M4	372.844M4
24)		Mirex	6.182	6.921	683.2E6	824.3E6	370.981M4	375.563M4
25)		Endosulfan S	6.277	6.543	703.7E6	969.8E6	399.998M4	387.433M4
26)		Endrin Keton	6.500	6.953	787.9E6	1131.4E6	397.894M4	388.409M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-12.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 06:49 pm
Operator : pest20:peg
Sample : il11pest,42e,,pp 11576 L0.4 (Sig #1); il11pest,42e,,pp 11563 L0.4 (Sig #2)
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 10:11:19 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 10:11:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

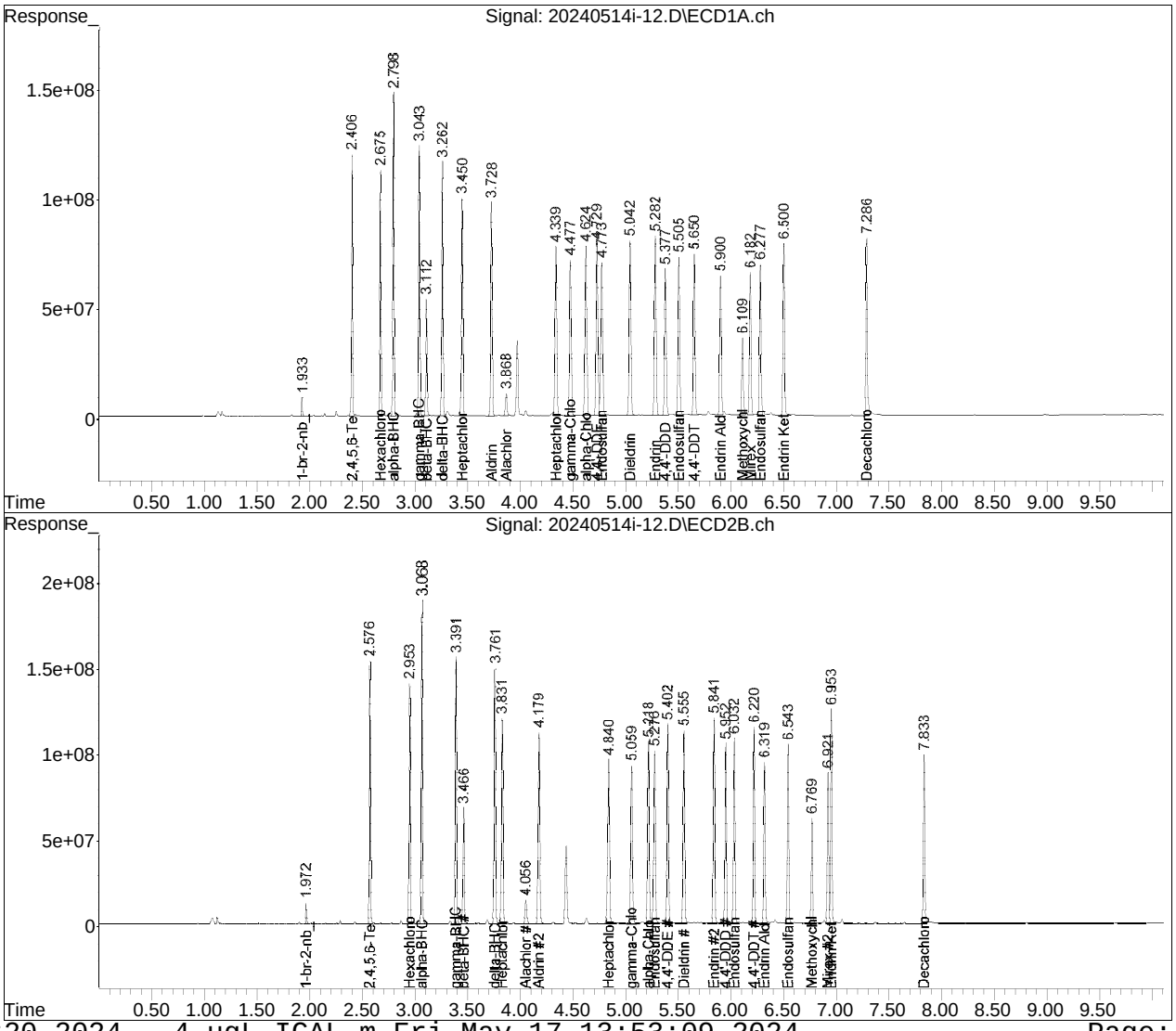
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-12.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 06:49 pm
Operator : pest20:peg
Sample : il11pest,42e,,pp 11576 L0.4 (Sig #1); il11pest,42e,,pp 11563 L0.4
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 10:11:19 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 10:11:07 2024
Response via : Initial Calibration
Integrator: ChemStation

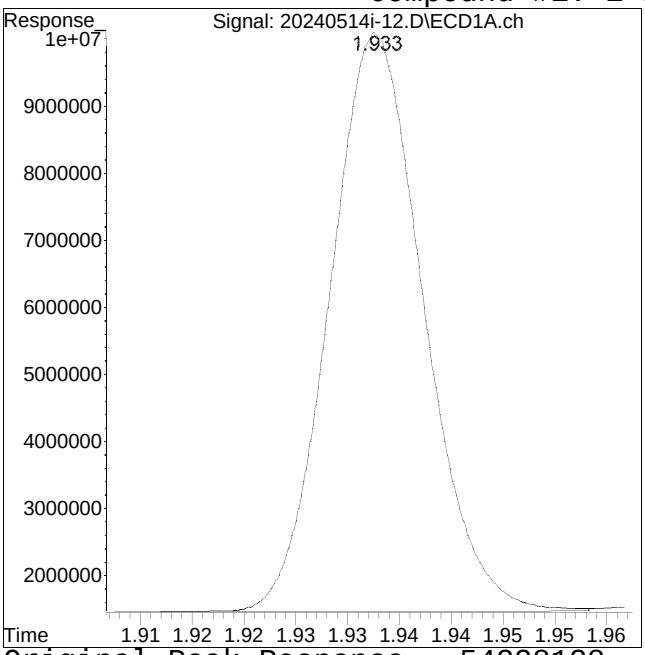
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



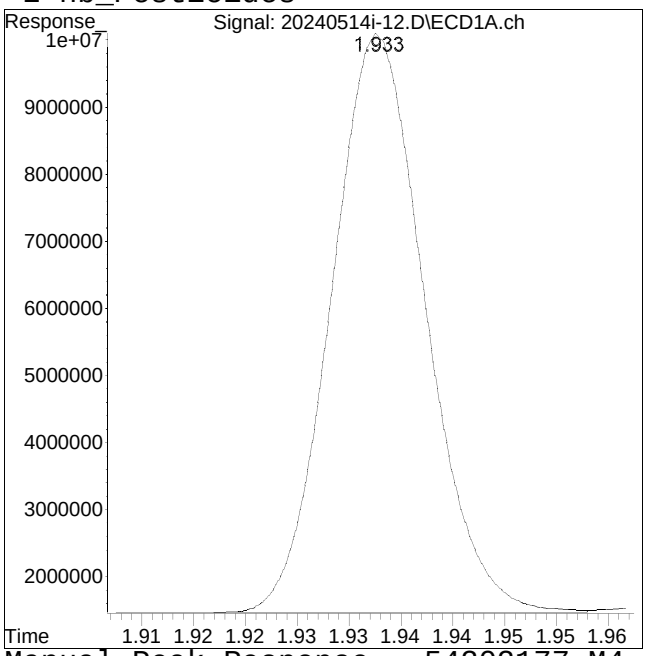
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-12.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:49 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11576 L0.Quant Date : 5/16/2024 10:11 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 54228128



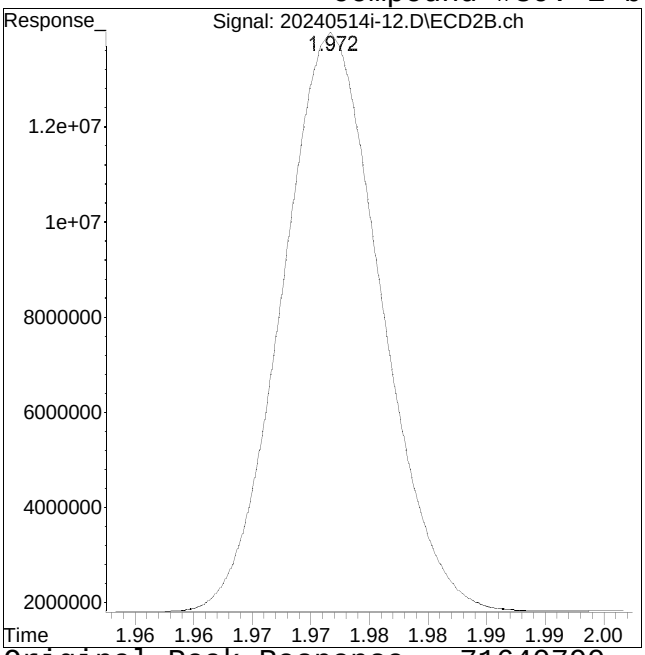
Manual Peak Response = 54202177 M4

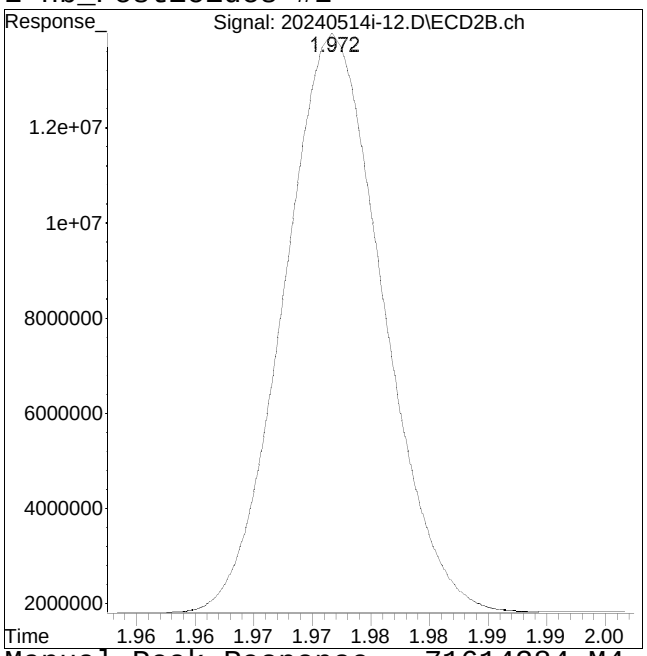
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-12.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:49 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11576 L0.Quant Date : 5/16/2024 10:11 am

Compound #39: 1-br-2-nb_Pesticides #2



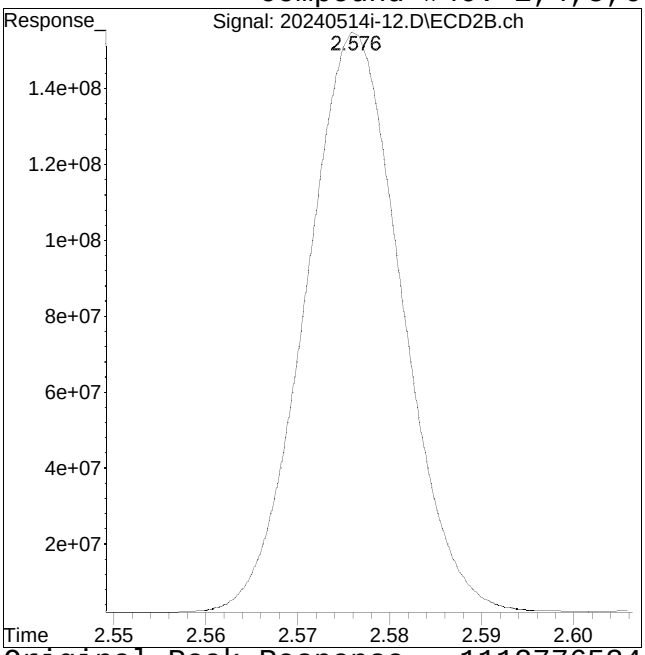


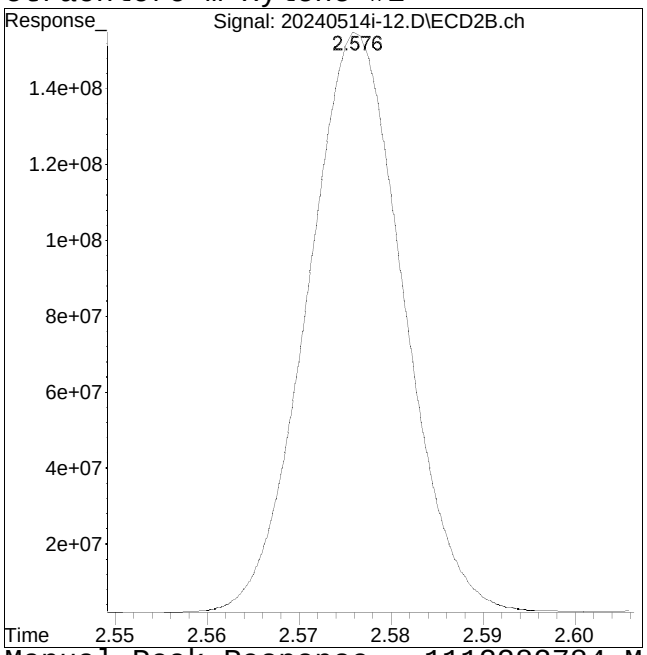
Original Peak Response = 71640790 Manual Peak Response = 71614384 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-12.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:49 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11576 L0.Quant Date : 5/16/2024 10:11 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2





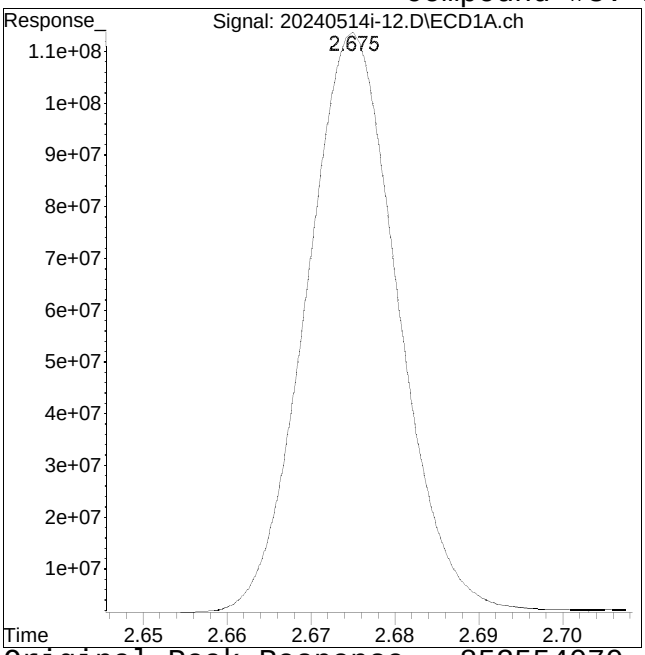
Original Peak Response = 1112776534 Manual Peak Response = 1112282784 M4
M4 = Poor automated baseline construction.

Manual Integration Report

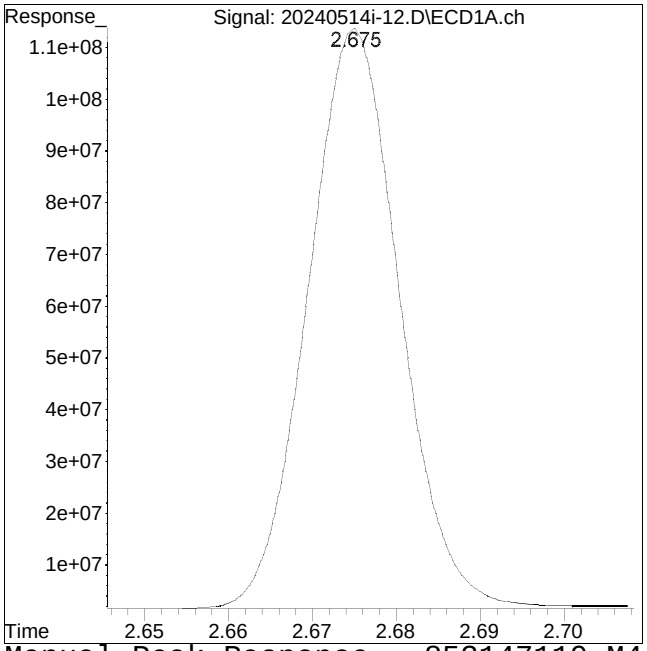
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #3: Hexachlorobenzene



Original Peak Response = 853554070



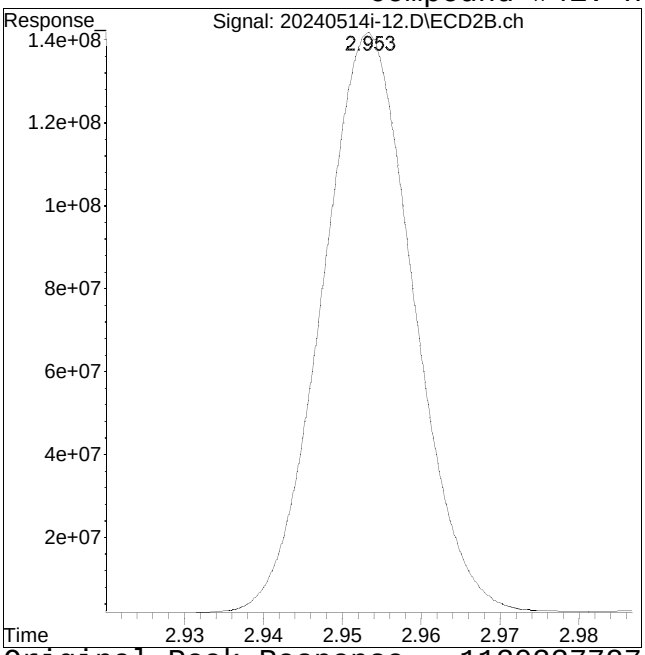
Manual Peak Response = 853147110 M4

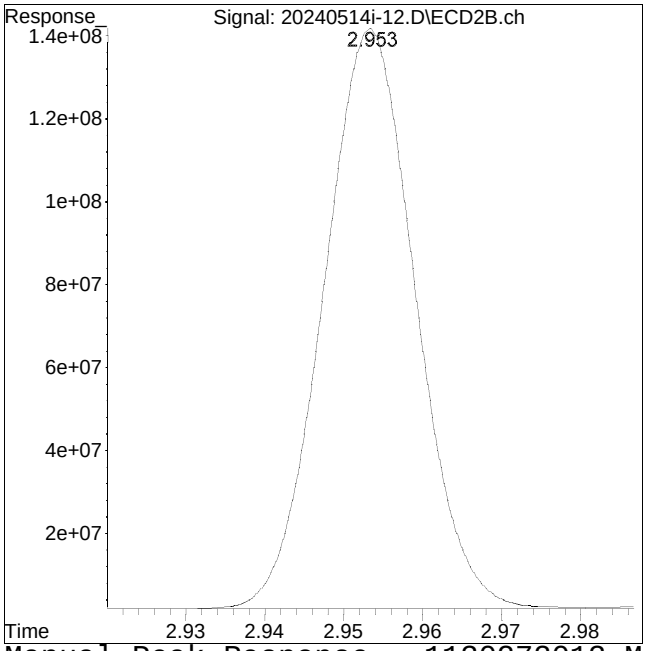
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-12.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:49 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11576 L0.Quant Date : 5/16/2024 10:11 am

Compound #41: Hexachlorobenzene #2



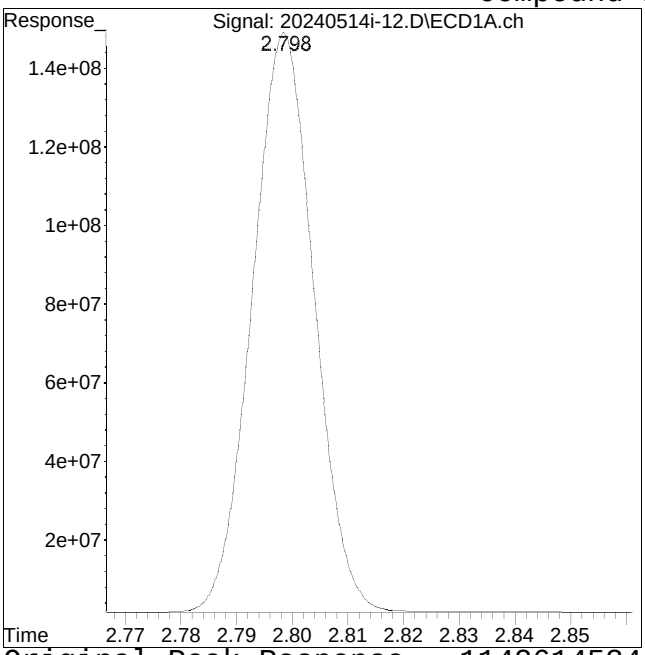


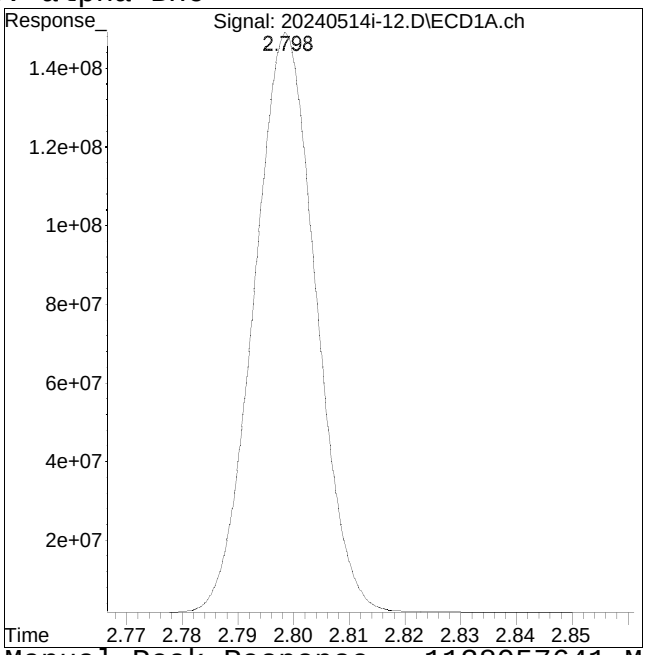
Original Peak Response = 1130337727 Manual Peak Response = 1130272013 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-12.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:49 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11576 L0.Quant Date : 5/16/2024 10:11 am

Compound #4: alpha-BHC





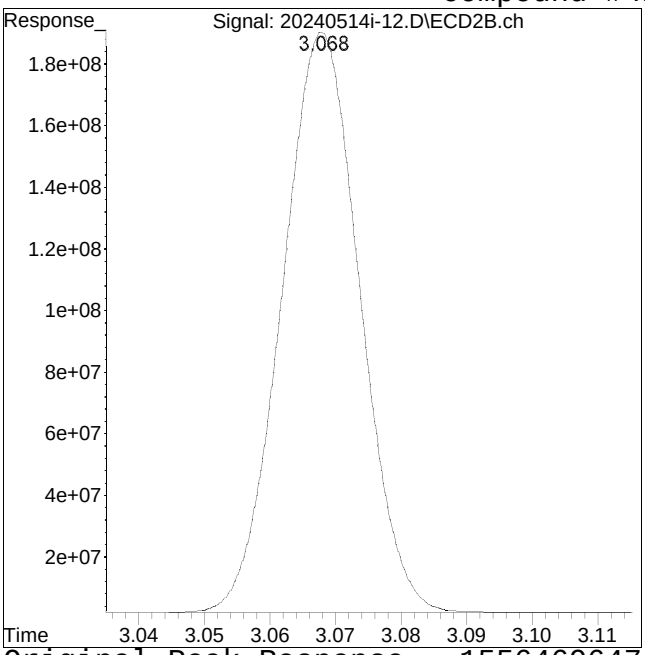
Original Peak Response = 1142614534 Manual Peak Response = 1138057641 M4
M4 = Poor automated baseline construction.

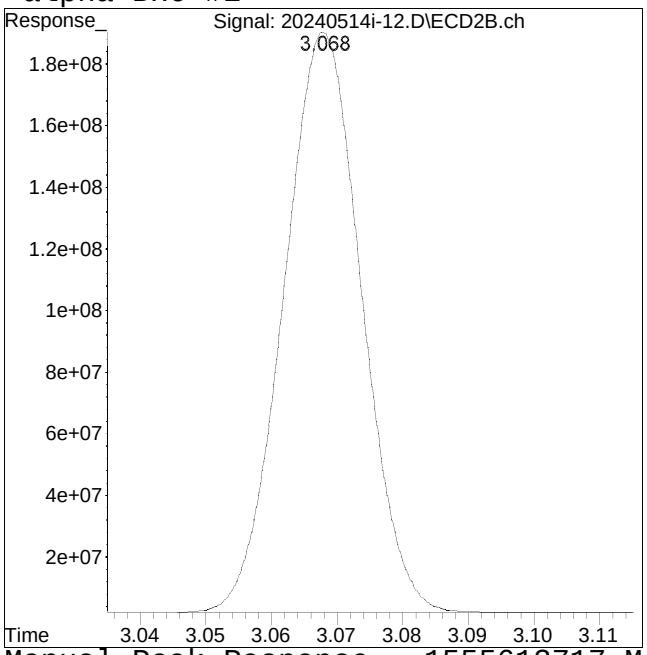
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #42: alpha-BHC #2





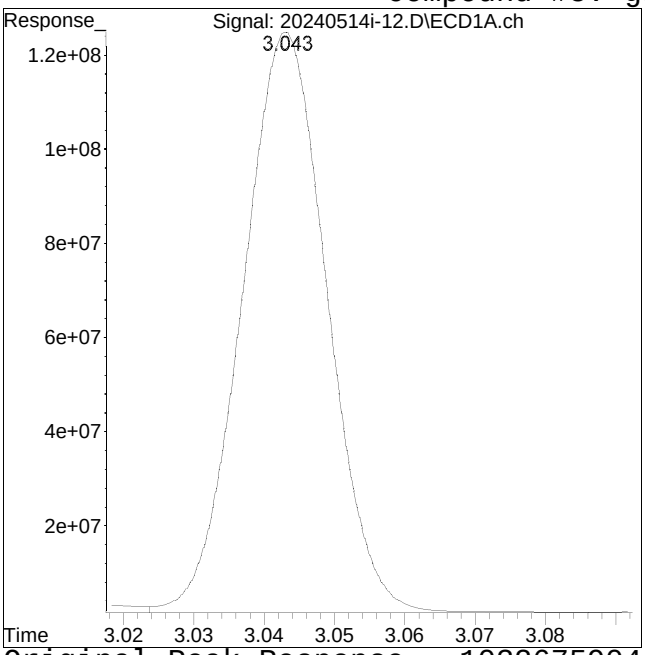
Original Peak Response = 1556469647 Manual Peak Response = 1555613717 M4
M4 = Poor automated baseline construction.

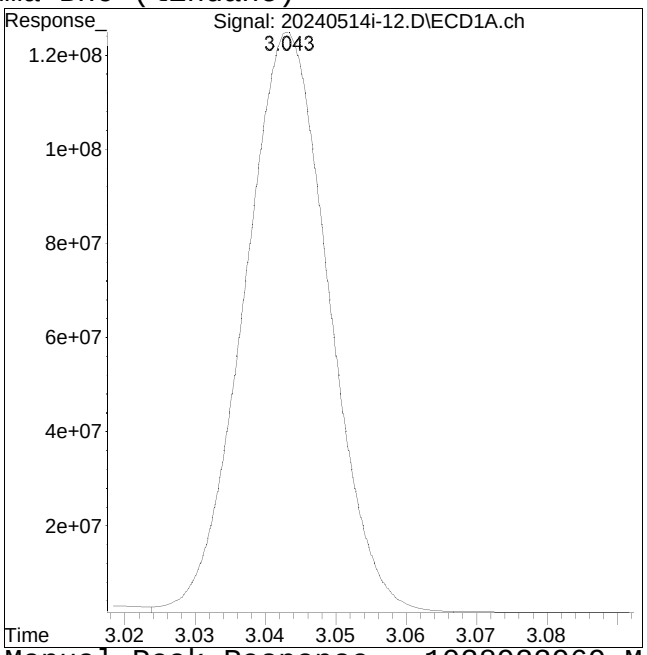
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #5: gamma-BHC (lindane)



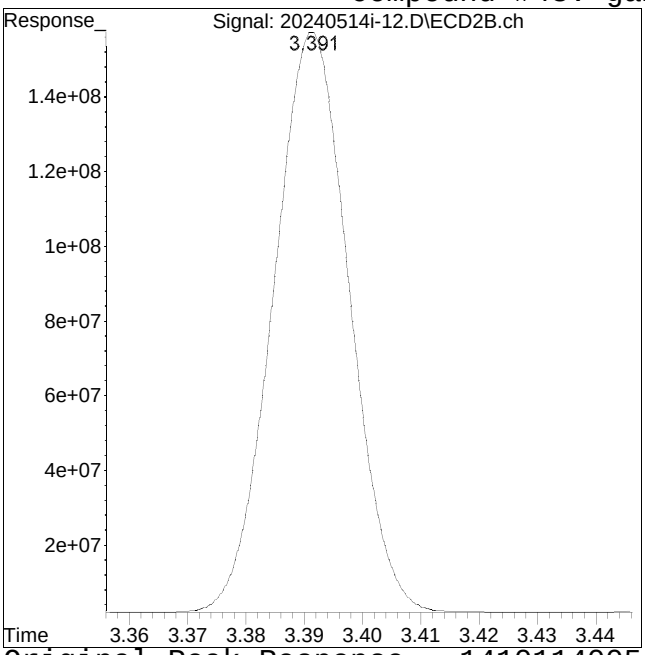


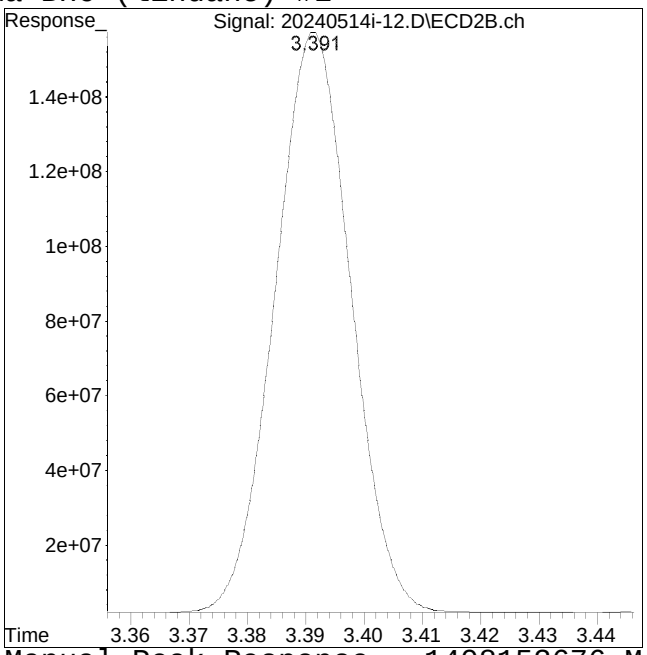
Original Peak Response = 1032675904 Manual Peak Response = 1028923969 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-12.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:49 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11576 L0.Quant Date : 5/16/2024 10:11 am

Compound #43: gamma-BHC (lindane) #2



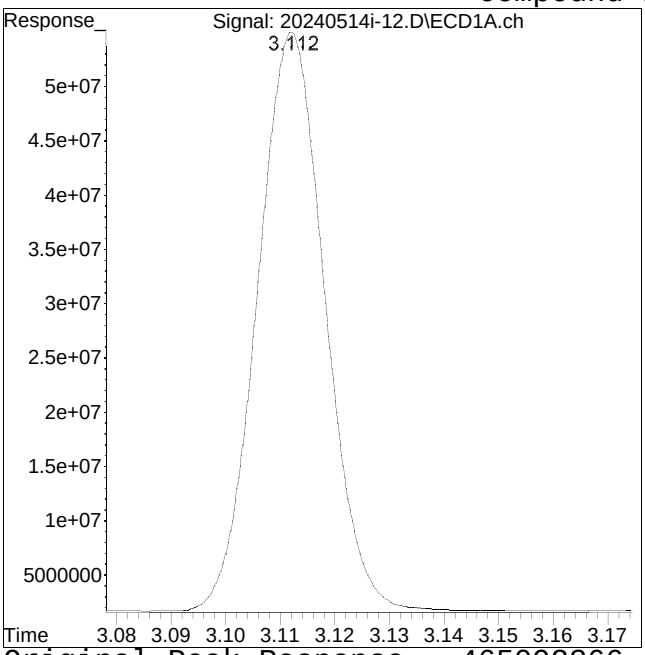


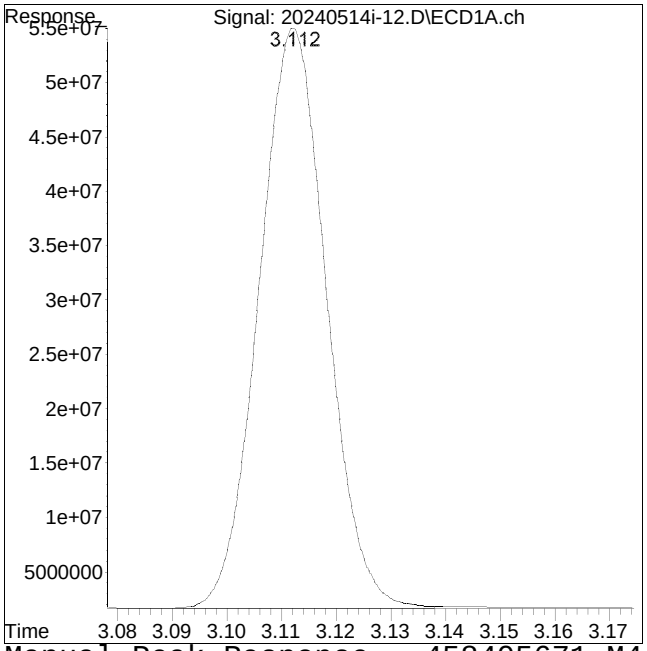
Original Peak Response = 1410114005 Manual Peak Response = 1408153676 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-12.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:49 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11576 L0.Quant Date : 5/16/2024 10:11 am

Compound #6: beta-BHC



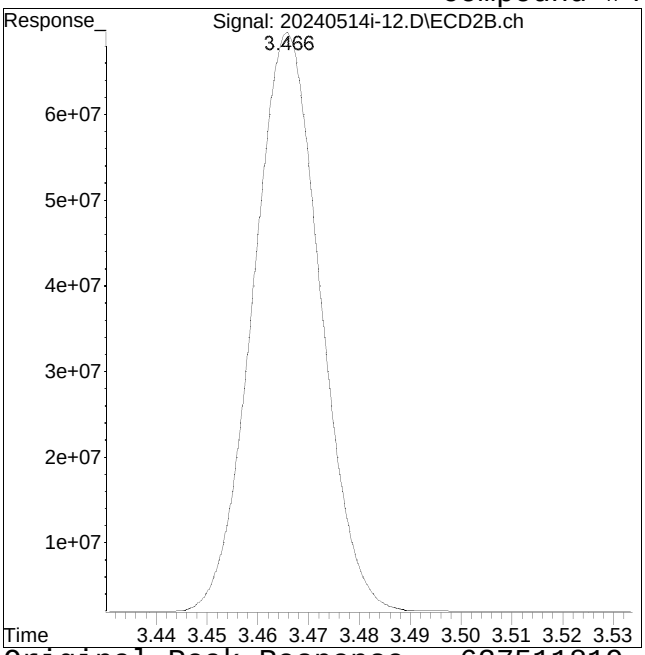


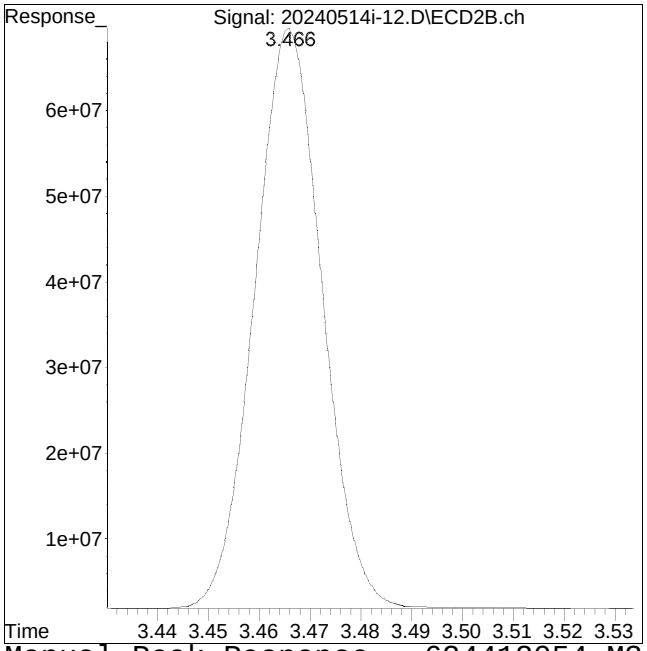
Original Peak Response = 465092366 Manual Peak Response = 458405671 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-12.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:49 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11576 L0.Quant Date : 5/16/2024 10:11 am

Compound #44: beta-BHC #2



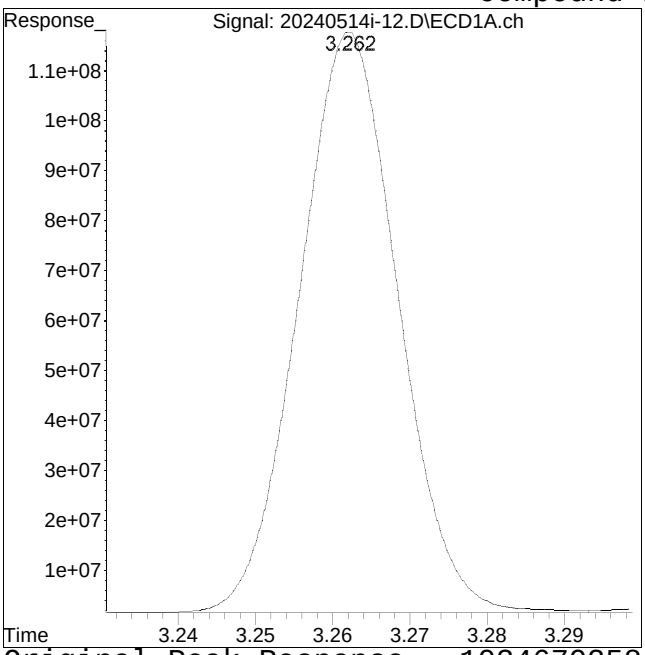


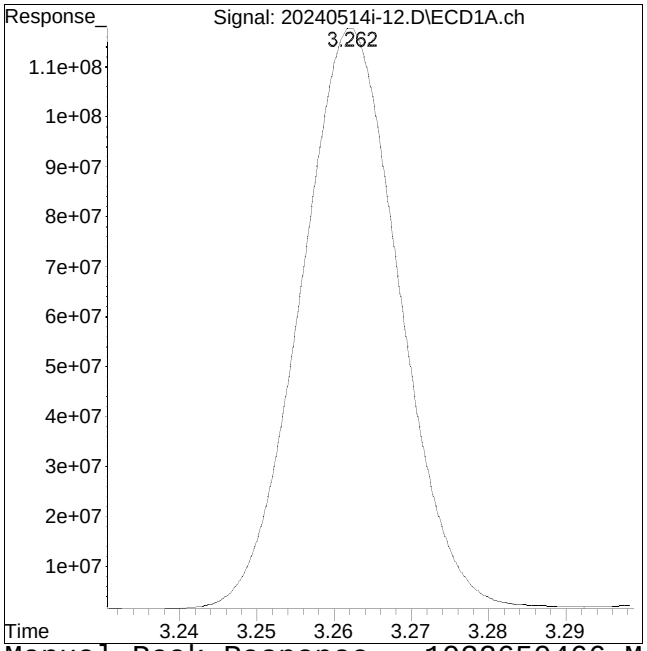
Original Peak Response = 627511819 Manual Peak Response = 624412054 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #7: delta-BHC



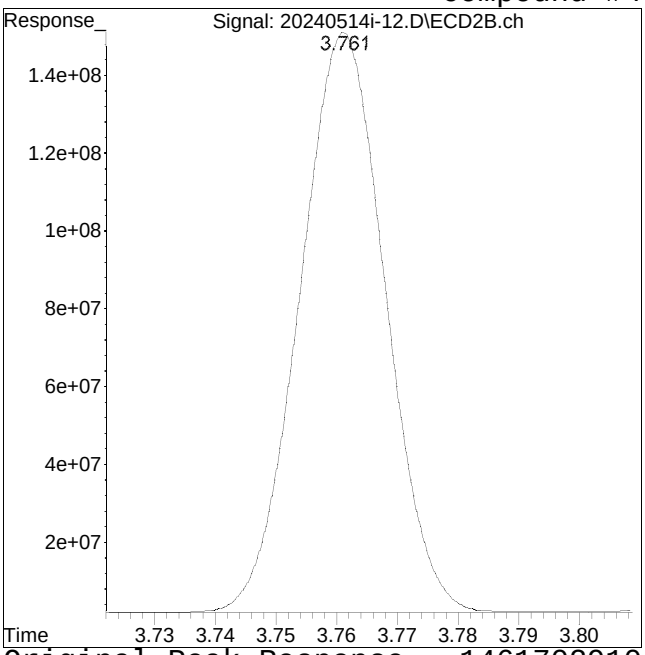


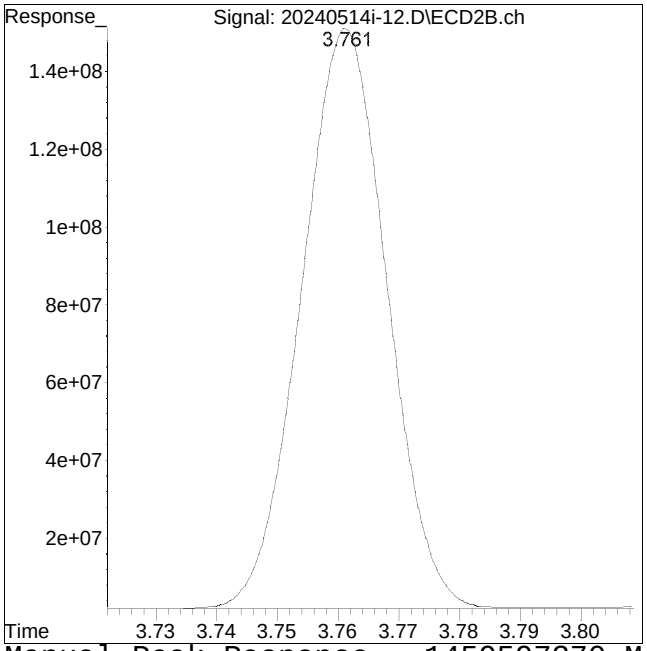
Original Peak Response = 1034679258 Manual Peak Response = 1032650466 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-12.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:49 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11576 L0.Quant Date : 5/16/2024 10:11 am

Compound #45: delta-BHC #2





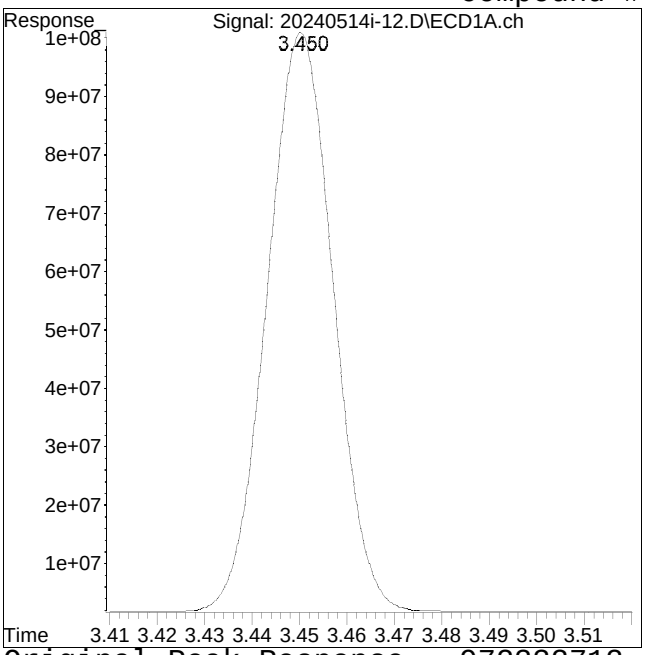
Original Peak Response = 1461702910 Manual Peak Response = 1459597370 M4
M4 = Poor automated baseline construction.

Manual Integration Report

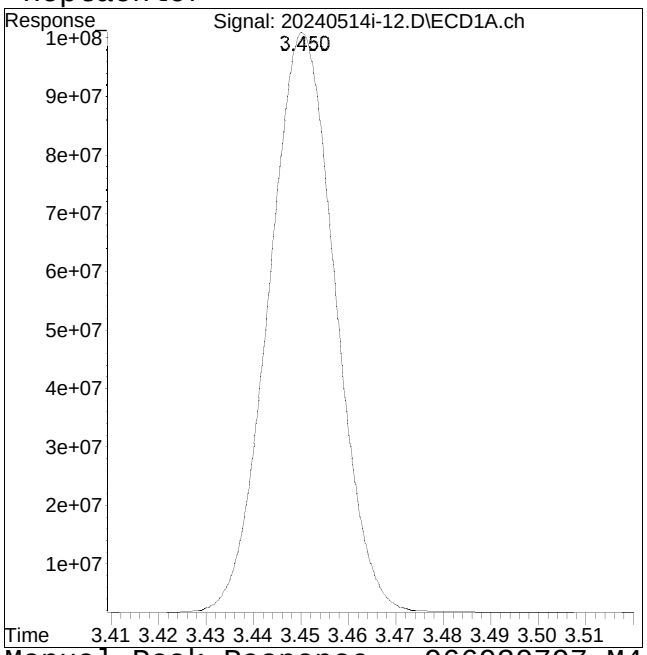
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #8: Heptachlor



Original Peak Response = 972332712



Manual Peak Response = 966930797 M4

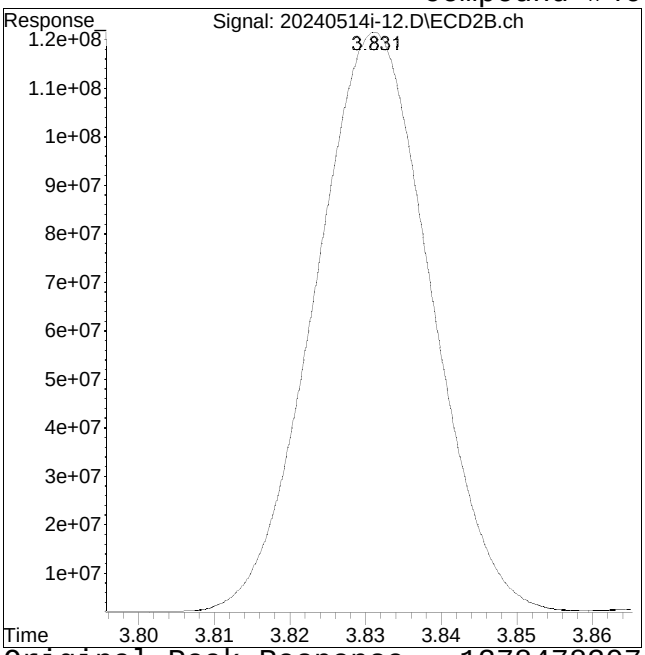
M4 = Poor automated baseline construction.

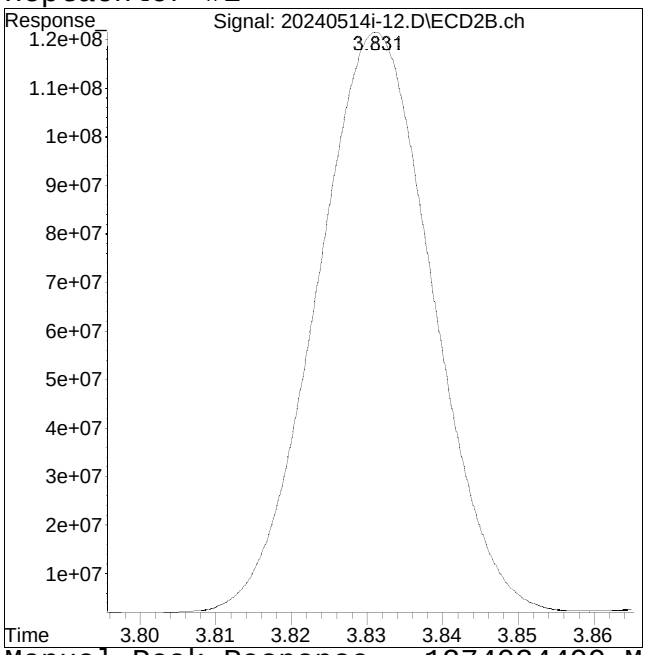
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #46: Heptachlor #2





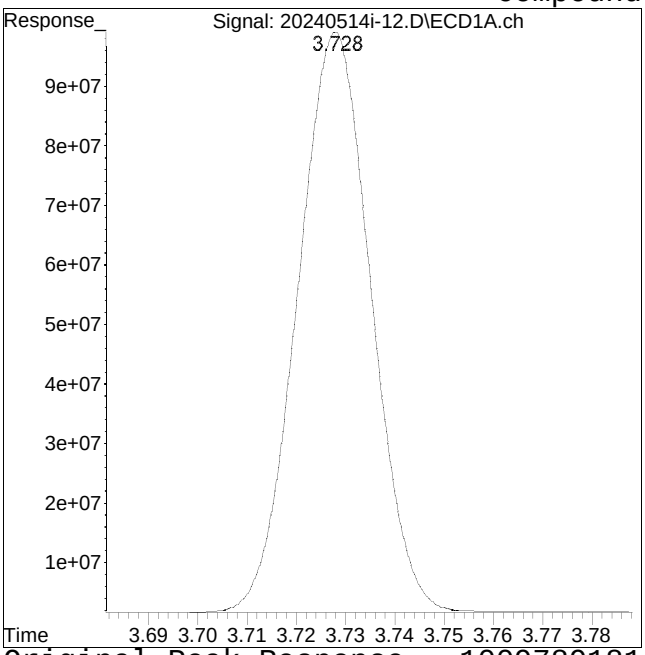
Original Peak Response = 1278478307 Manual Peak Response = 1274024499 M4
M4 = Poor automated baseline construction.

Manual Integration Report

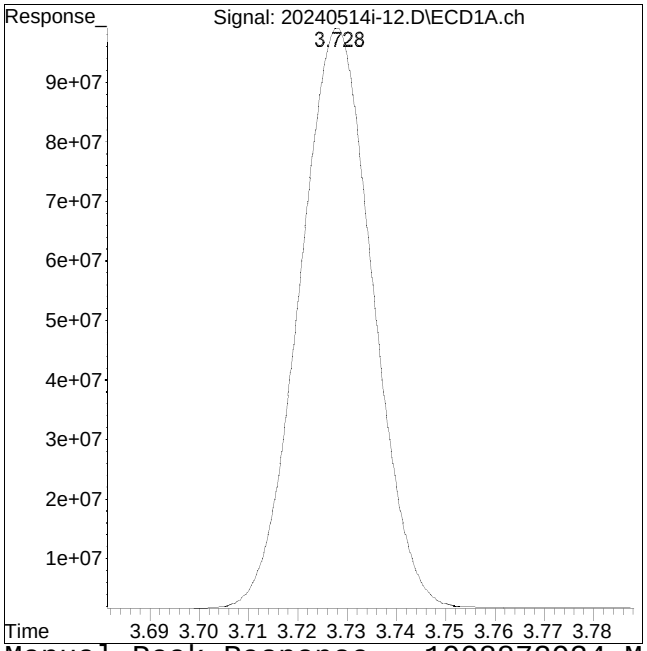
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #9: Aldrin



Original Peak Response = 1009789181



Manual Peak Response = 1008872934 M4

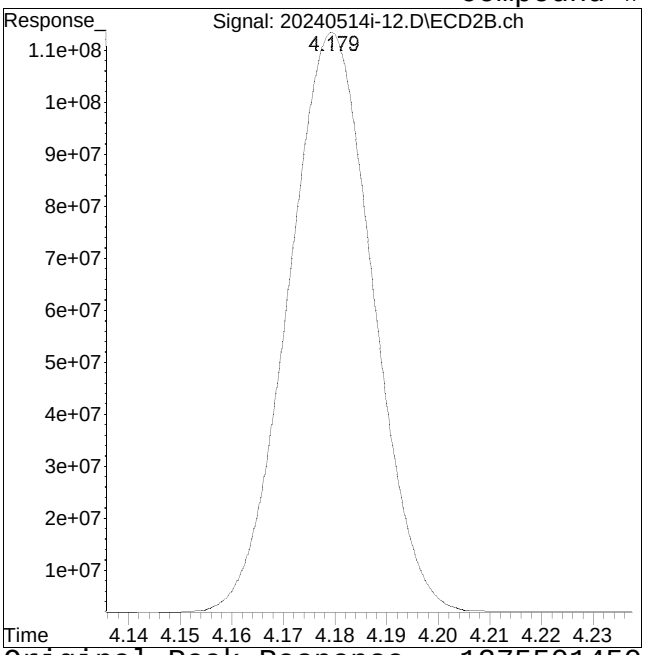
M4 = Poor automated baseline construction.

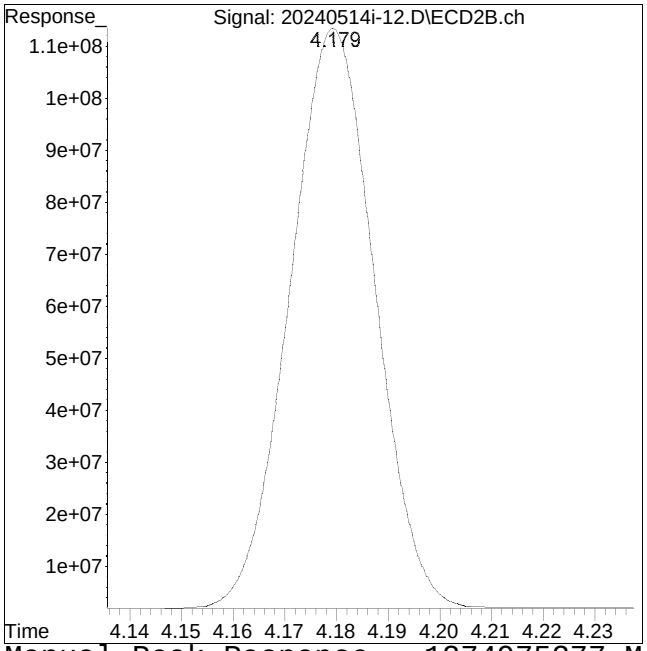
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #47: Aldrin #2



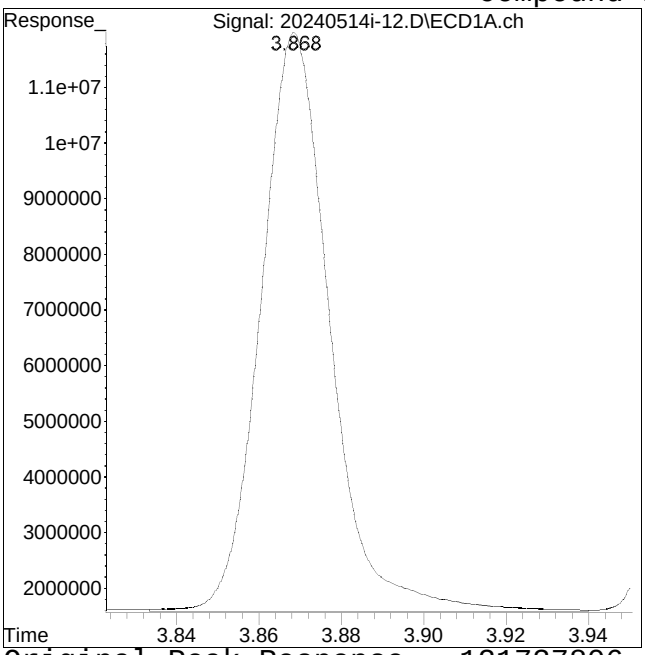


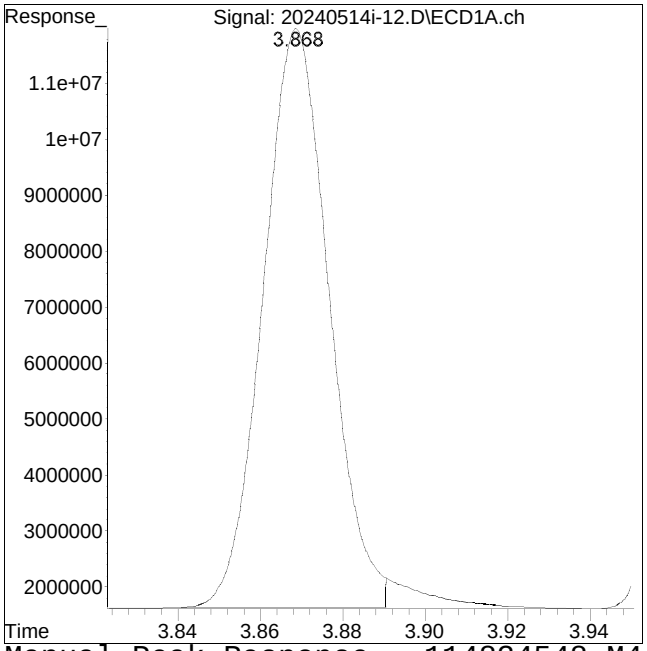
Original Peak Response = 1275501450 Manual Peak Response = 1274975277 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #10: Alachlor



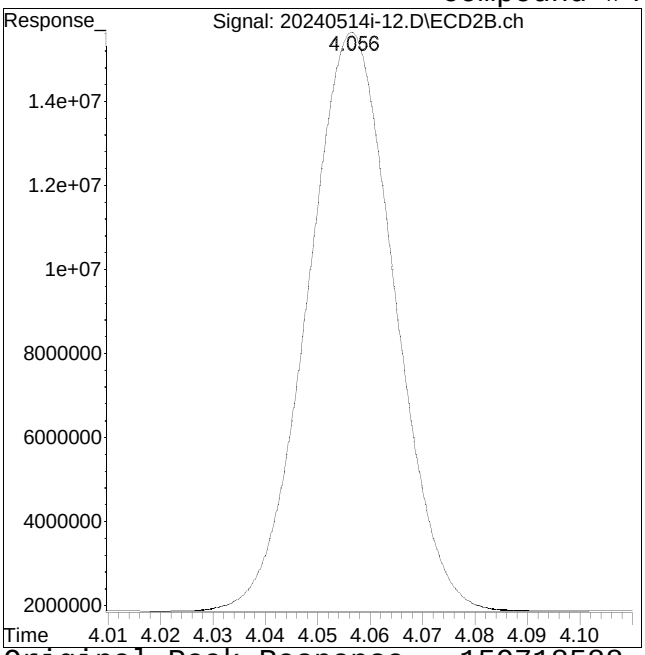


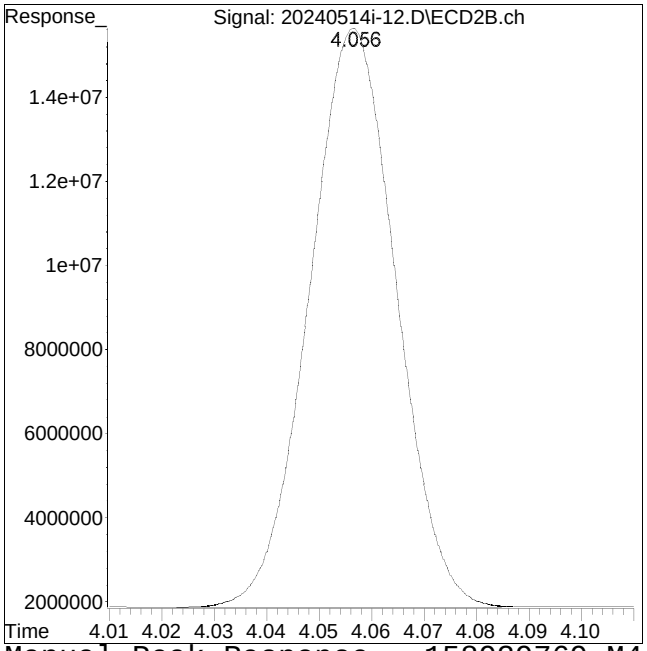
Original Peak Response = 121737806 Manual Peak Response = 114834548 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #48: Alachlor #2





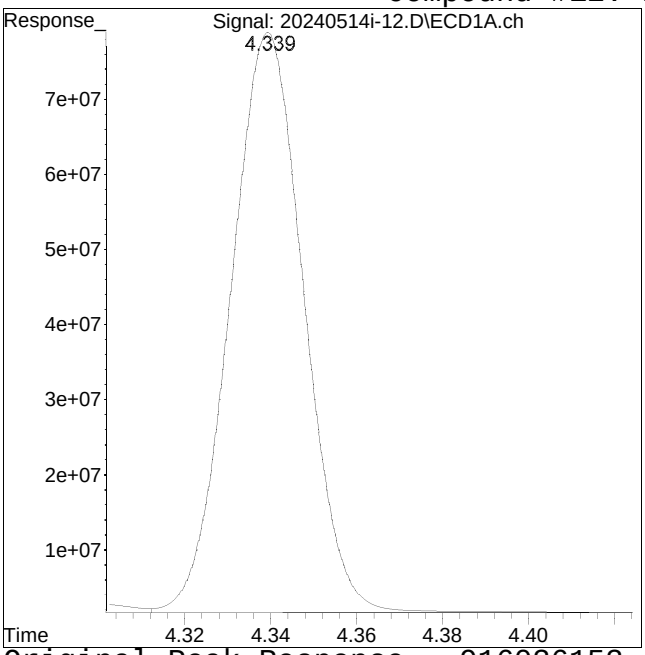
Original Peak Response = 159718588 Manual Peak Response = 158939769 M4
M4 = Poor automated baseline construction.

Manual Integration Report

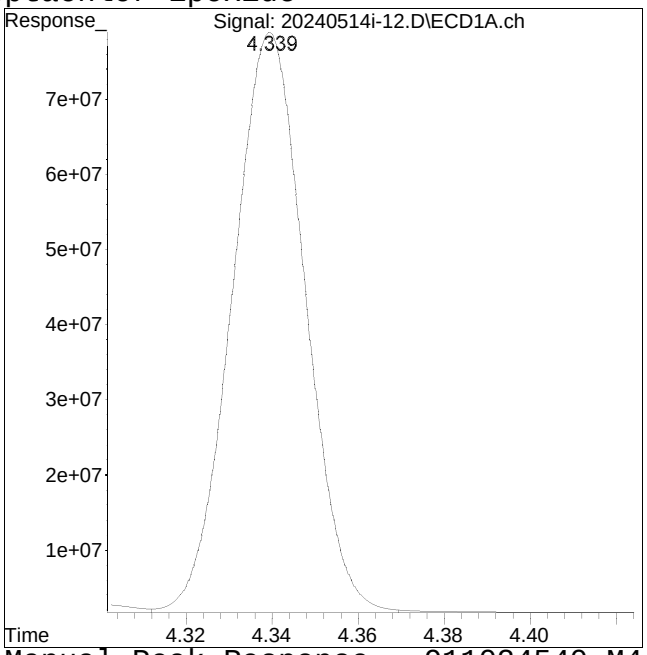
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #12: Heptachlor Epoxide



Original Peak Response = 916036153



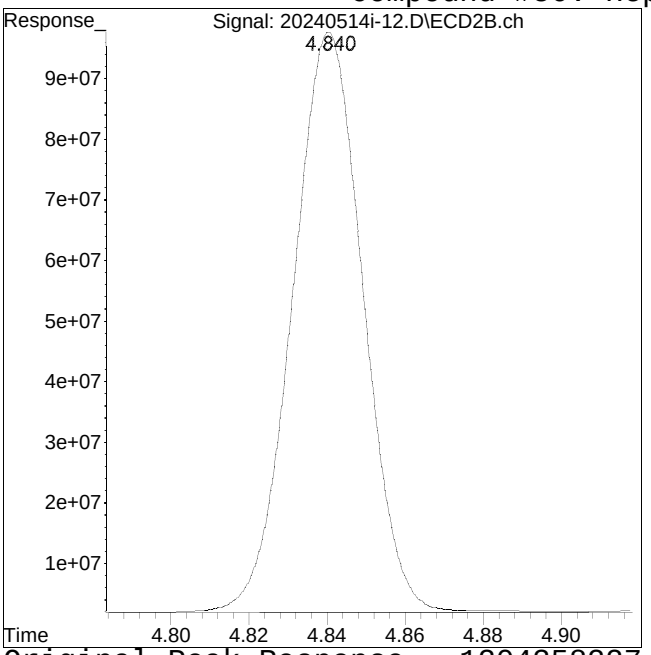
Manual Peak Response = 911024540 M4

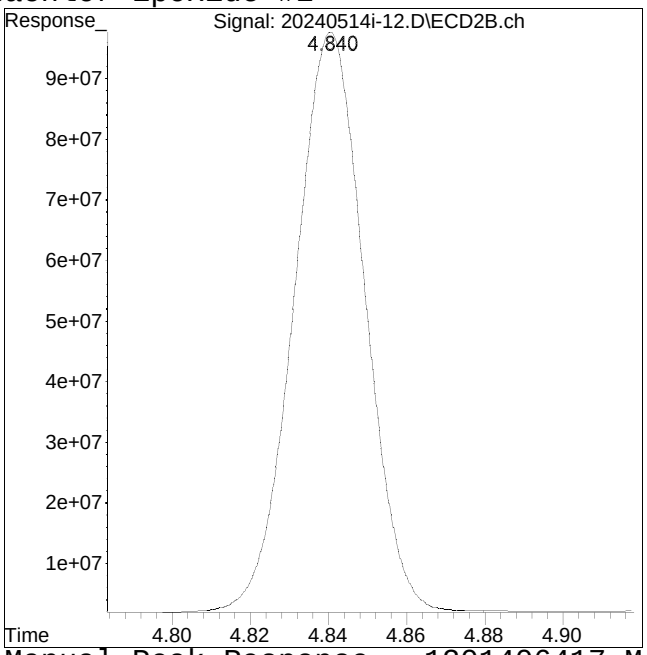
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #50: Heptachlor Epoxide #2



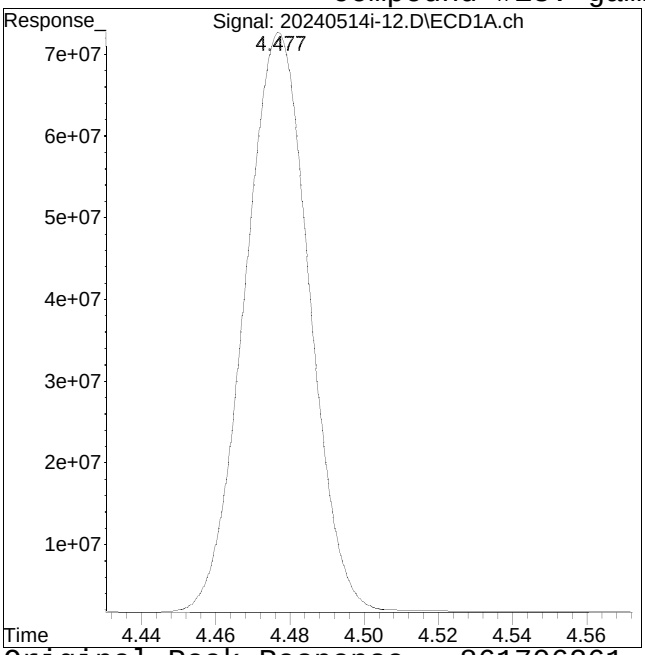


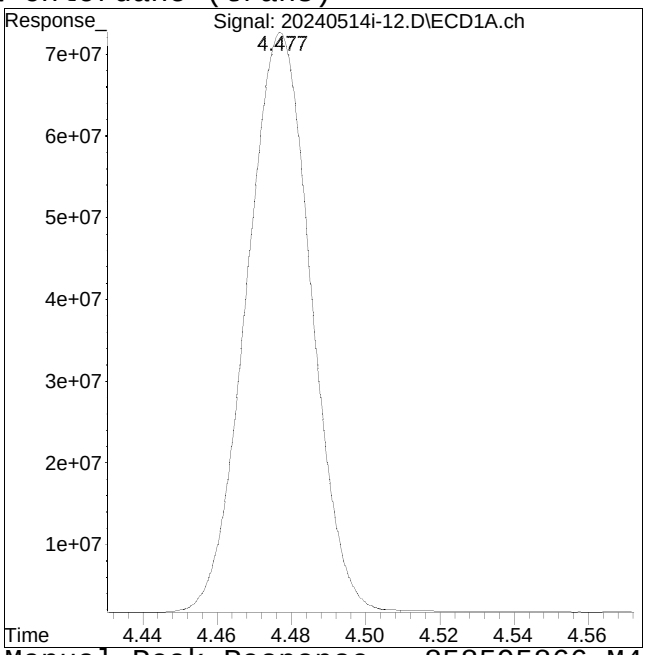
Original Peak Response = 1204358227 Manual Peak Response = 1201406417 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-12.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:49 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11576 L0.Quant Date : 5/16/2024 10:11 am

Compound #13: gamma-Chlordane (trans)



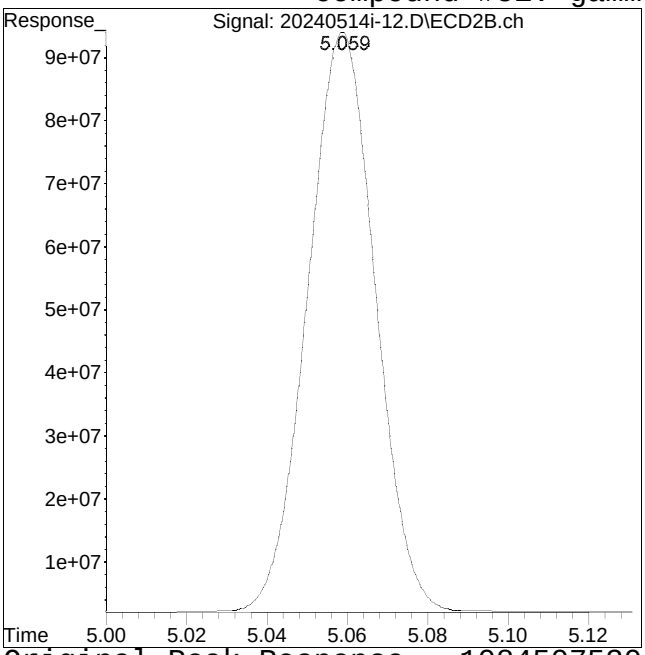


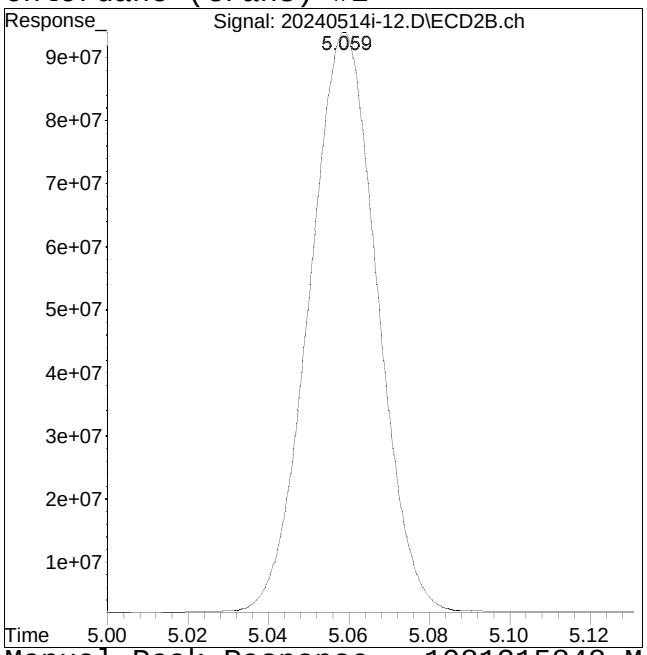
Original Peak Response = 861706261 Manual Peak Response = 858595866 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-12.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:49 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11576 L0.Quant Date : 5/16/2024 10:11 am

Compound #51: gamma-Chlordane (trans) #2



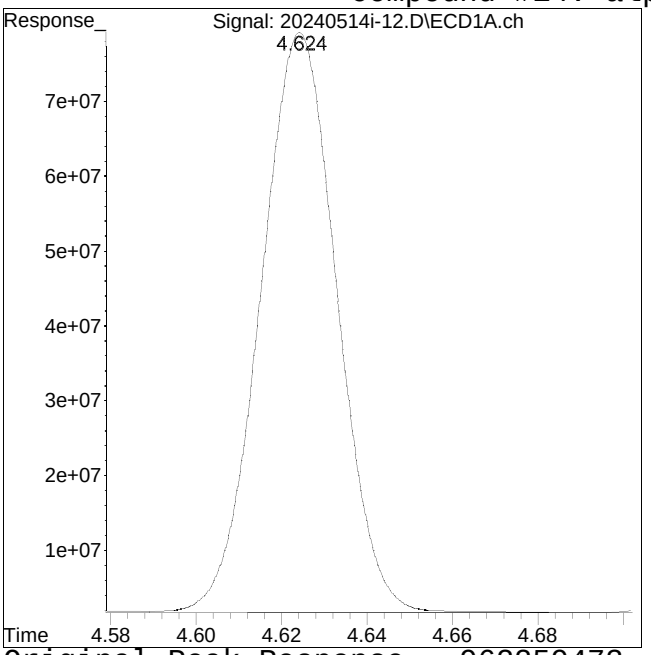


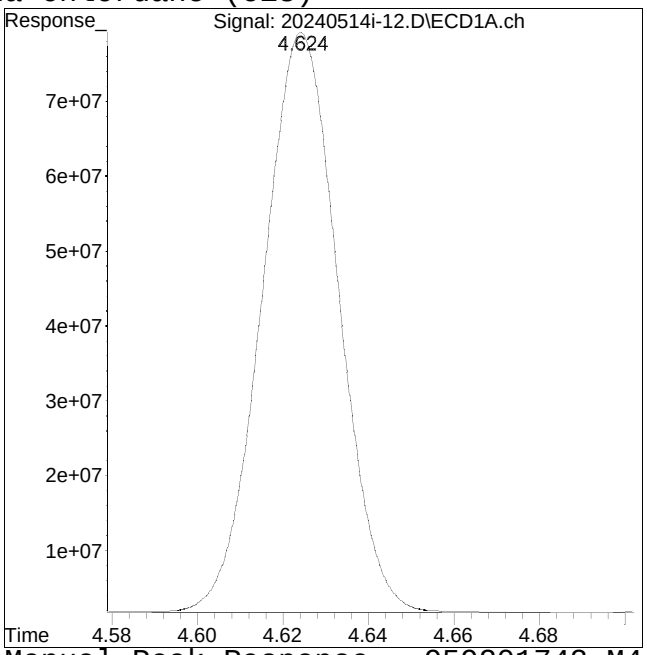
Original Peak Response = 1084507530 Manual Peak Response = 1081215848 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #14: alpha-Chlordane (cis)



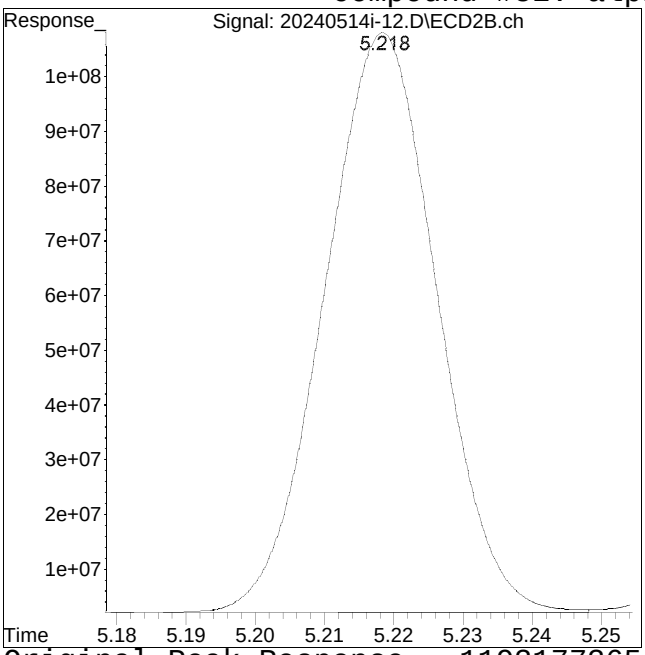


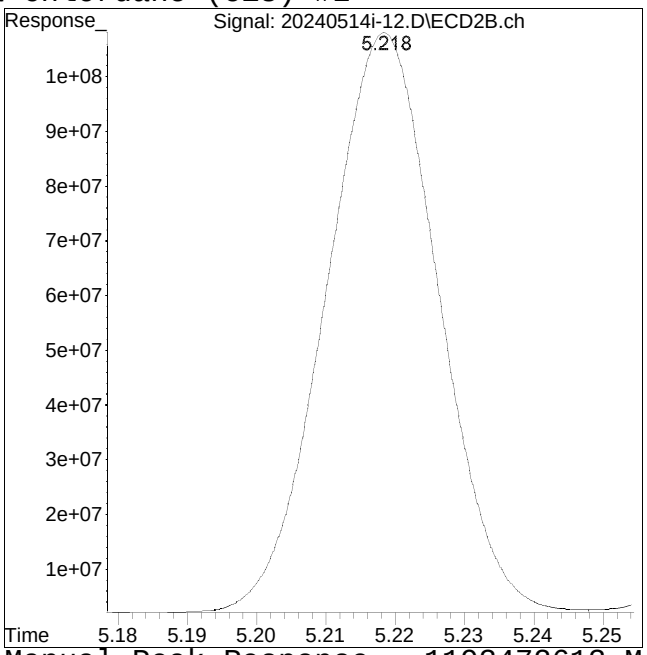
Original Peak Response = 962259473 Manual Peak Response = 959201742 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #52: alpha-Chlordane (cis) #2



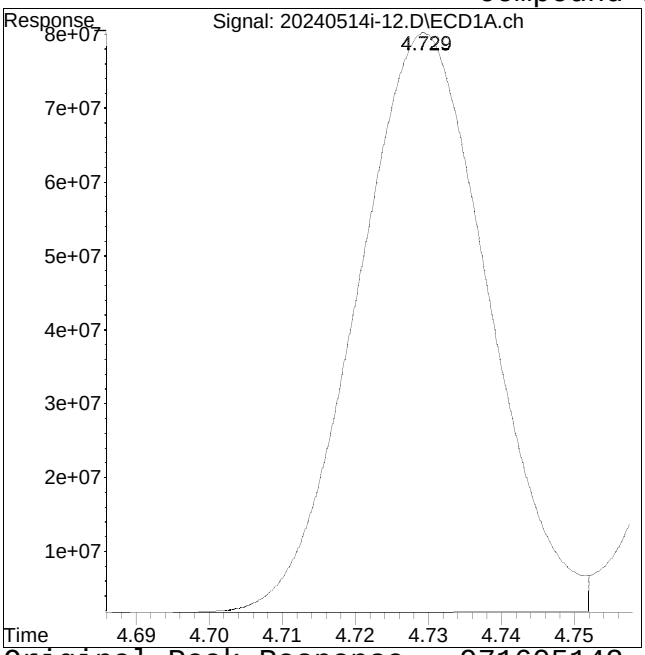


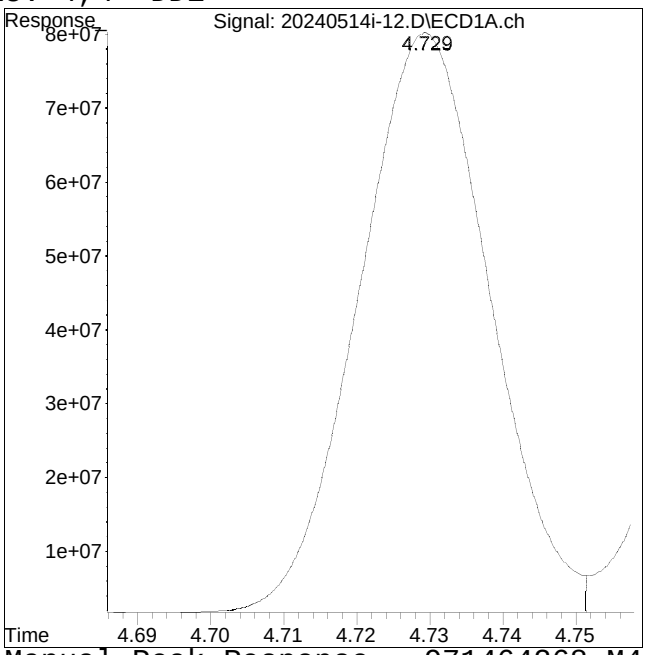
Original Peak Response = 1193177365 Manual Peak Response = 1193472613 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-12.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:49 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11576 L0.Quant Date : 5/16/2024 10:11 am

Compound #15: 4,4'-DDE



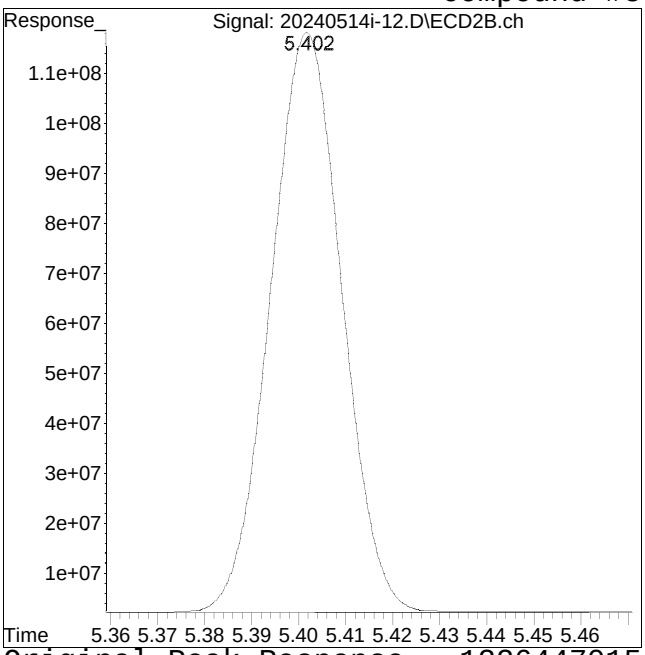


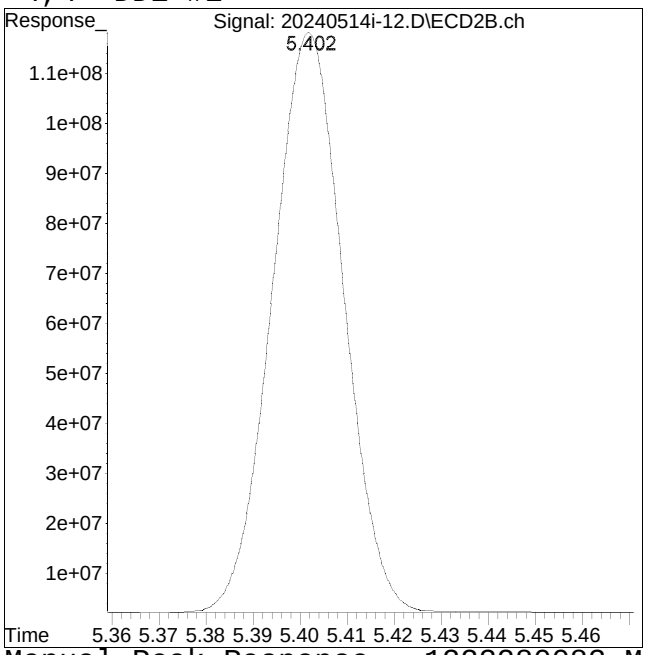
Original Peak Response = 971605142 Manual Peak Response = 971464268 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #53: 4,4'-DDE #2





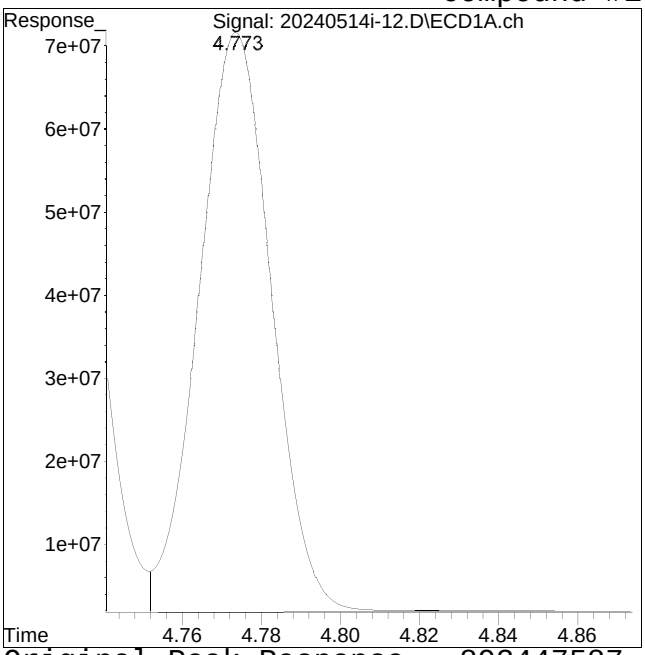
Original Peak Response = 1226447015 Manual Peak Response = 1223280083 M4
M4 = Poor automated baseline construction.

Manual Integration Report

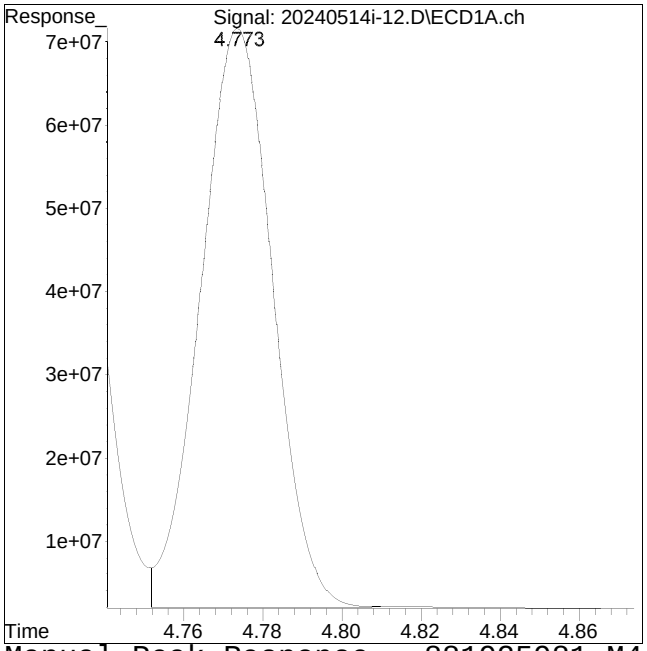
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #16: Endosulfan I



Original Peak Response = 893447587



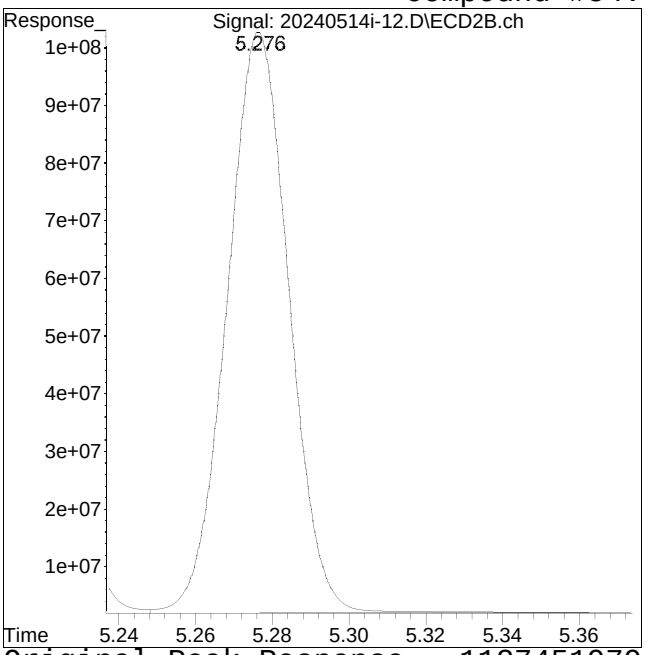
Manual Peak Response = 881925981 M4

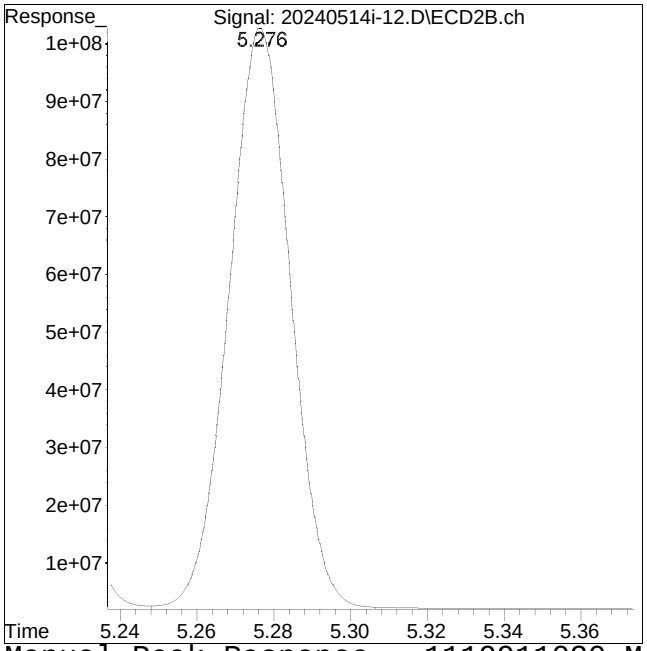
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #54: Endosulfan I #2



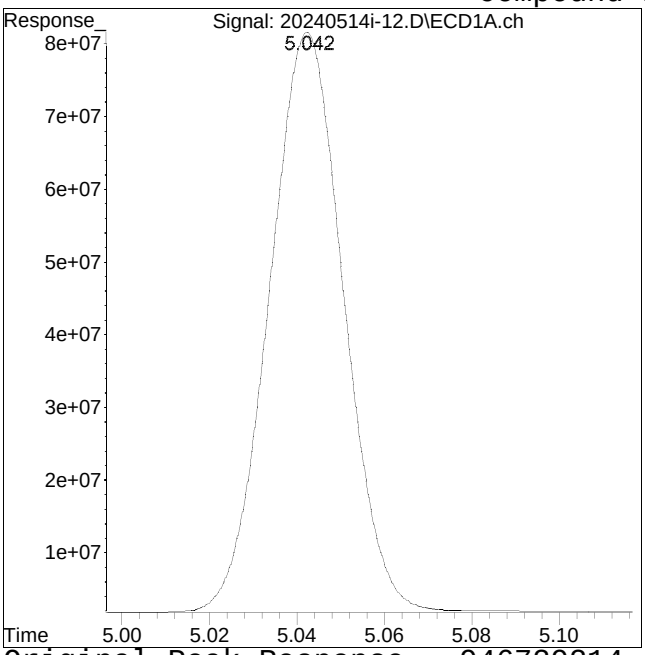


Original Peak Response = 1127451979 Manual Peak Response = 1119911020 M4
M4 = Poor automated baseline construction.

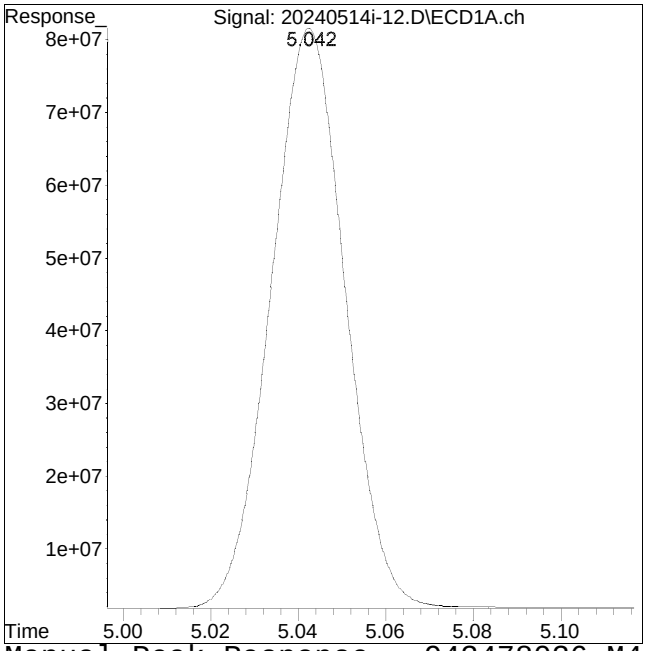
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #17: Dieldrin



Original Peak Response = 946729214



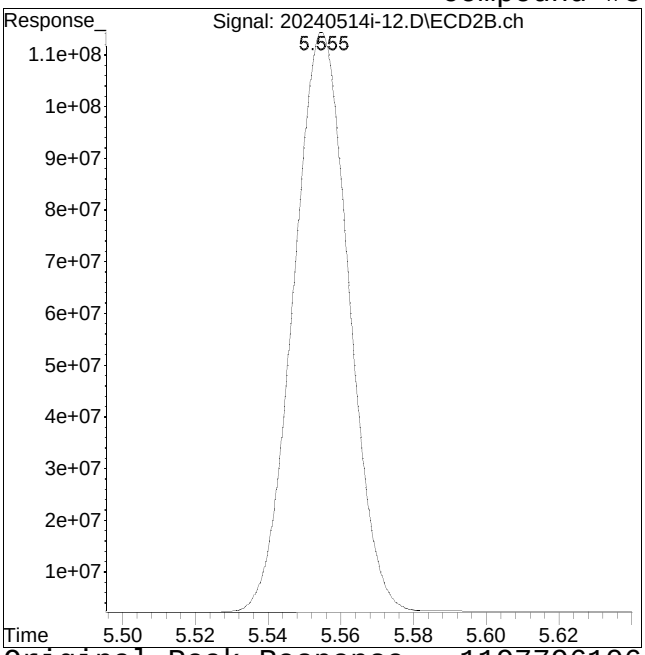
Manual Peak Response = 943478036 M4

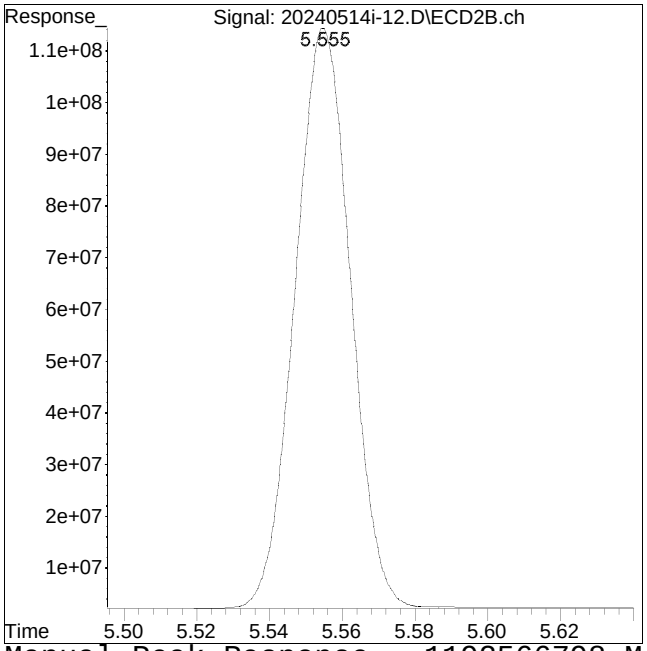
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #55: Dieldrin #2



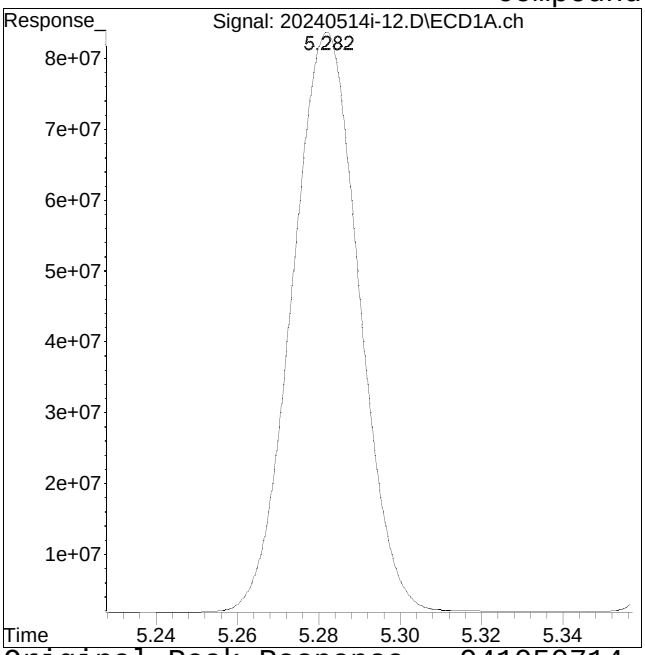


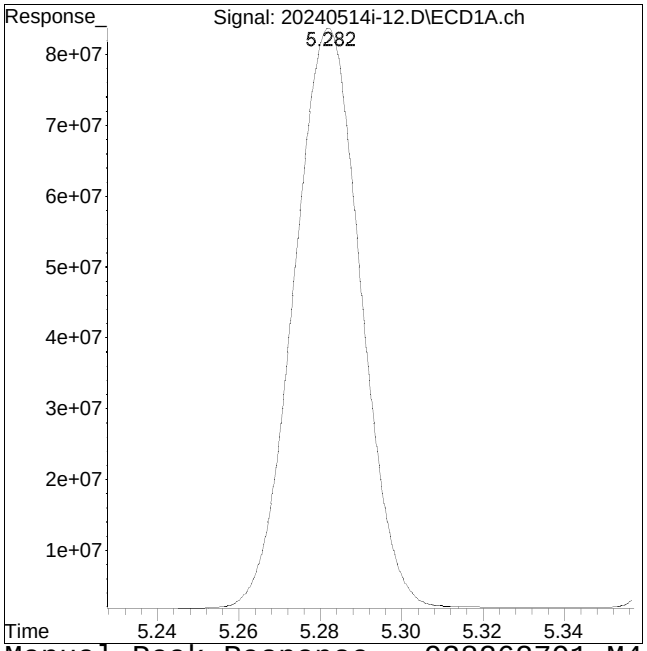
Original Peak Response = 1197796106 Manual Peak Response = 1192566798 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #18: Endrin





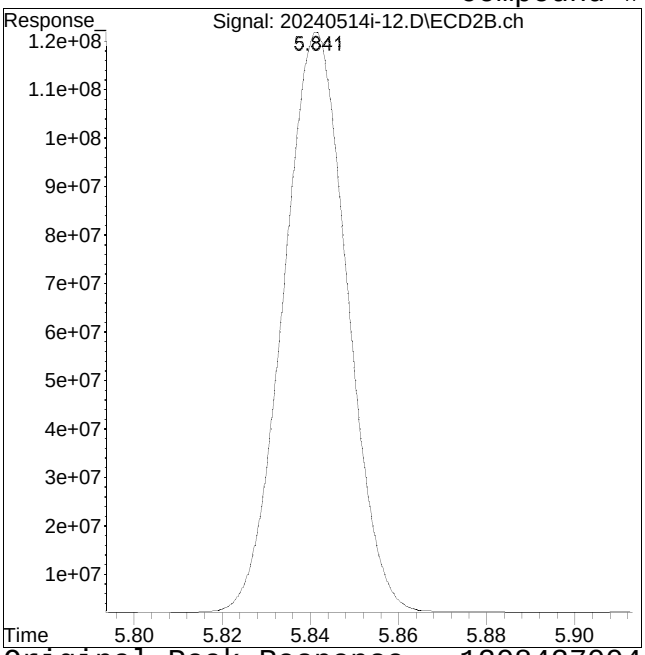
Original Peak Response = 941050714 Manual Peak Response = 938262791 M4
M4 = Poor automated baseline construction.

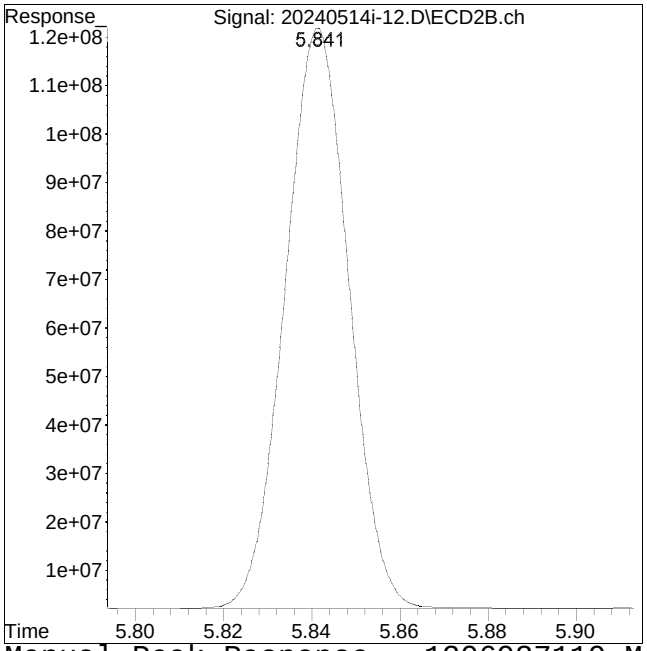
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #56: Endrin #2



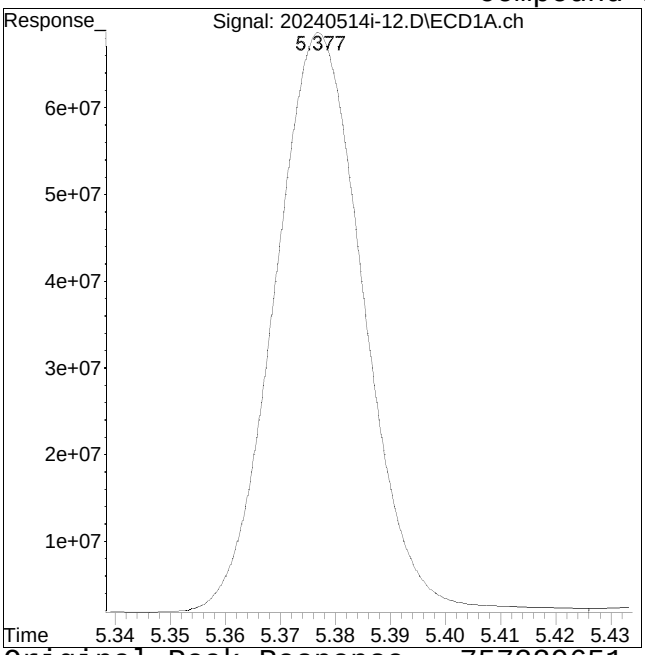


Original Peak Response = 1208427004 Manual Peak Response = 1206937119 M4
M4 = Poor automated baseline construction.

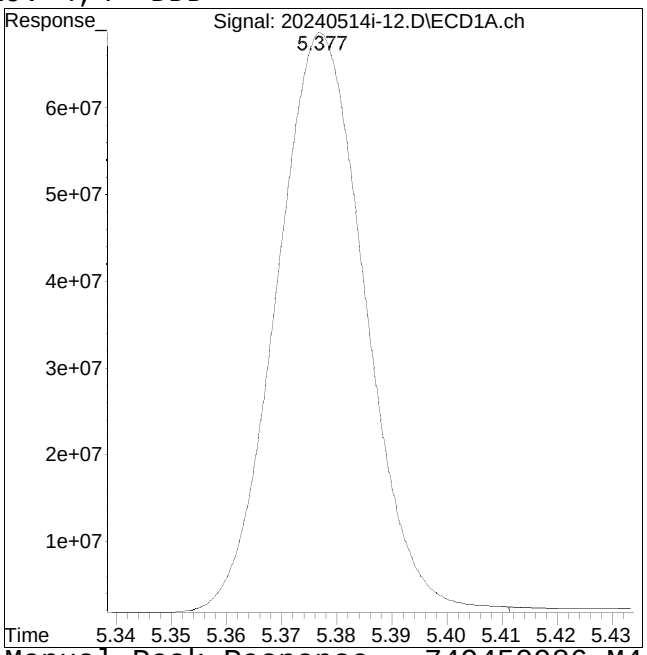
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #19: 4,4'-DDD



Original Peak Response = 757229651



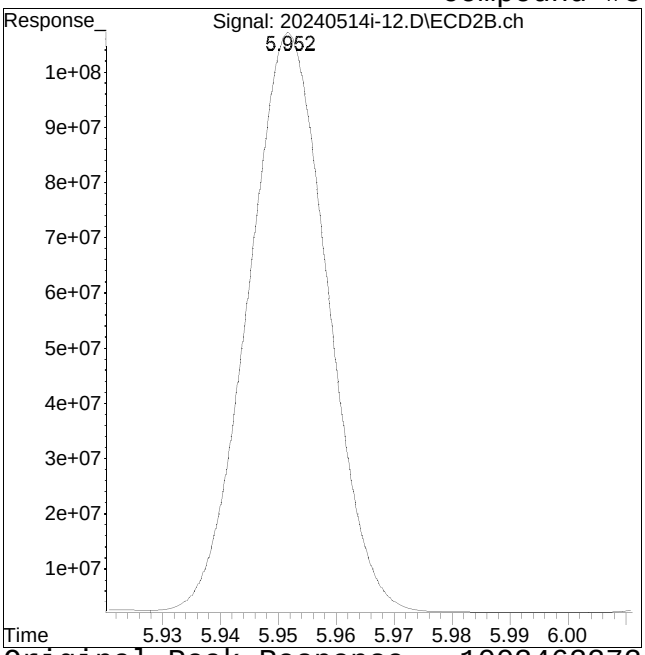
Manual Peak Response = 749450986 M4

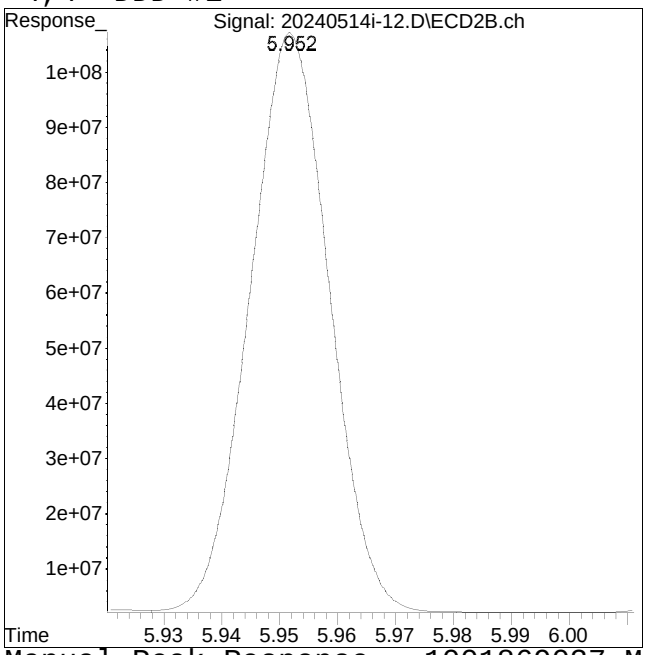
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-12.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:49 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11576 L0.Quant Date : 5/16/2024 10:11 am

Compound #57: 4,4'-DDD #2



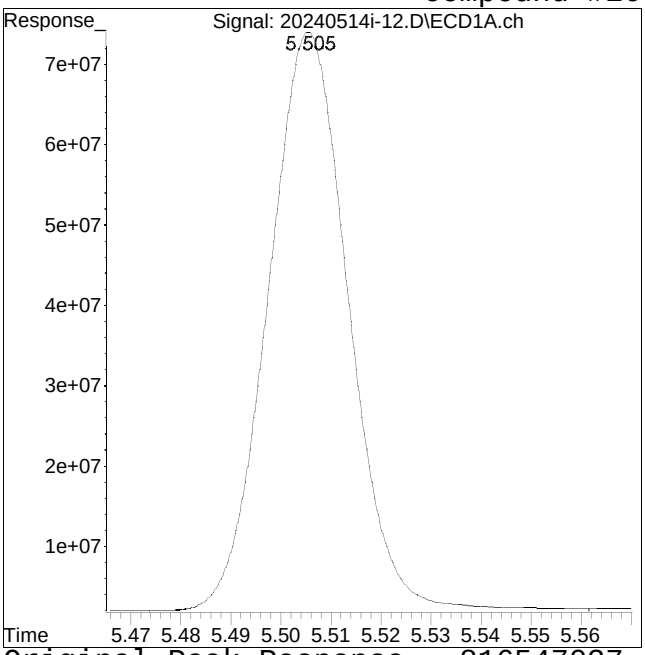


Original Peak Response = 1003463273 Manual Peak Response = 1001869037 M4
M4 = Poor automated baseline construction.

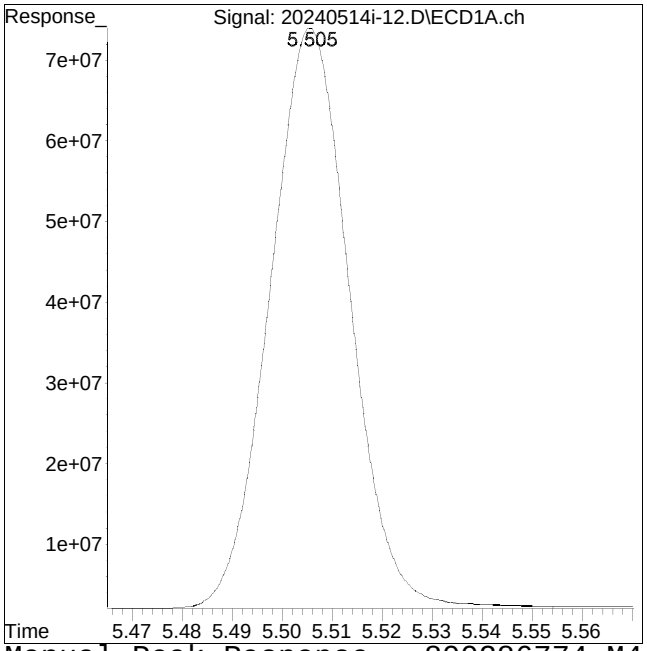
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #20: Endosulfan II



Original Peak Response = 816547037



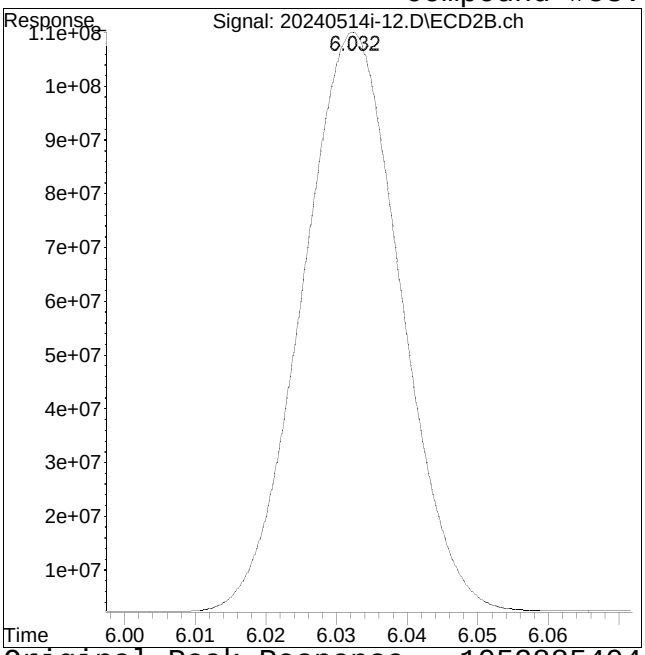
Manual Peak Response = 800286774 M4

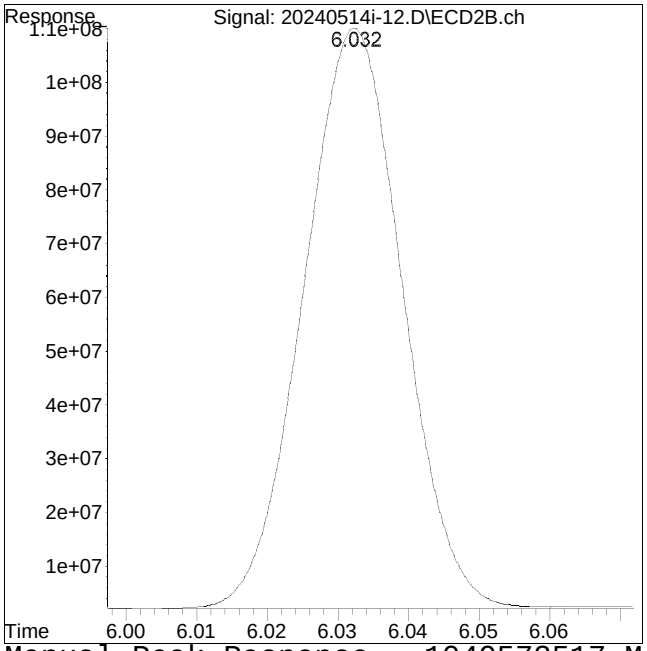
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #58: Endosulfan II #2



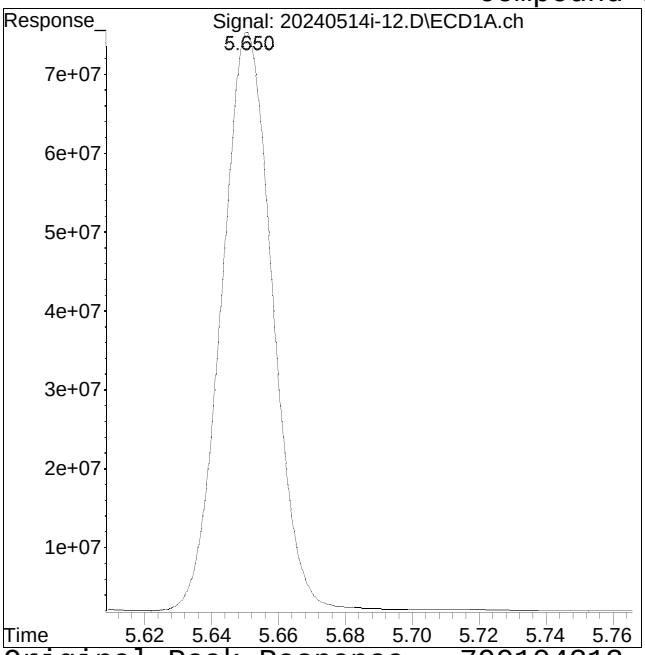


Original Peak Response = 1052885404 Manual Peak Response = 1049572517 M4
M4 = Poor automated baseline construction.

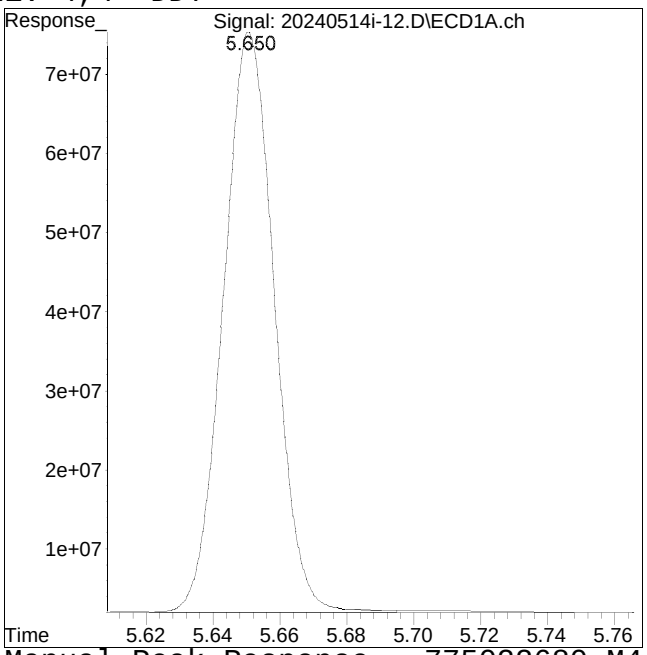
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #21: 4,4'-DDT



Original Peak Response = 799104313



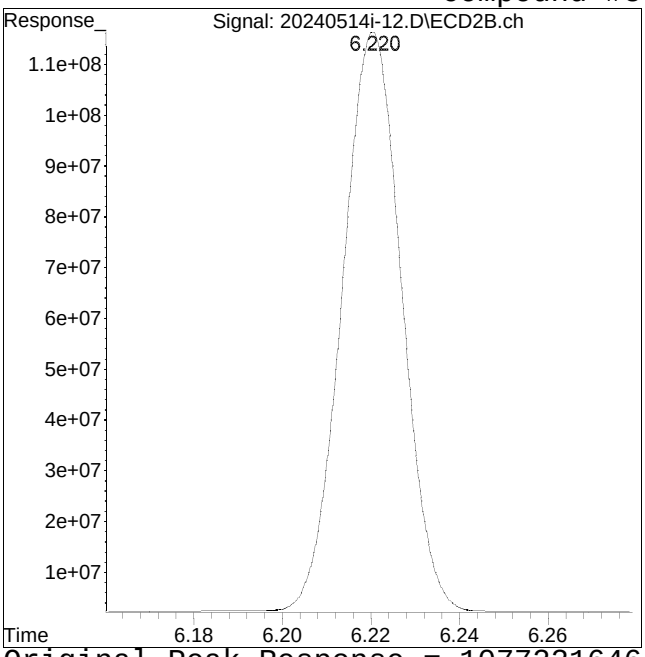
Manual Peak Response = 775022680 M4

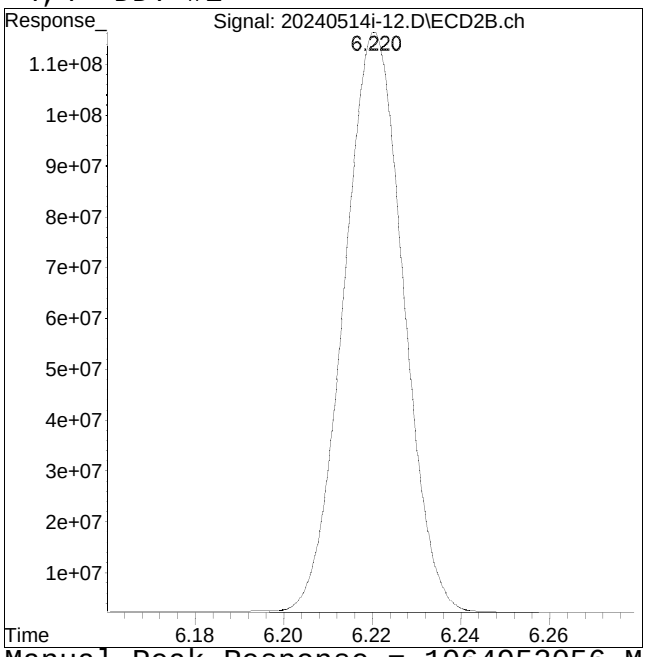
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-12.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:49 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11576 L0.Quant Date : 5/16/2024 10:11 am

Compound #59: 4,4'-DDT #2





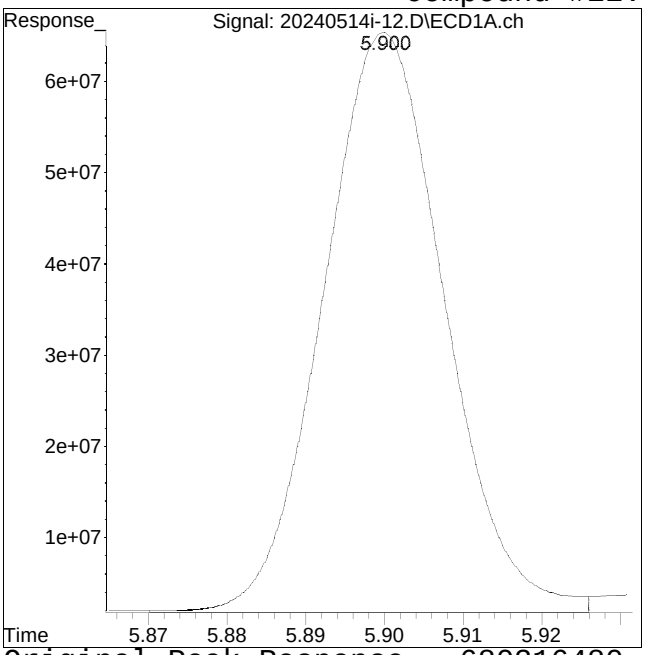
Original Peak Response = 1077221646 Manual Peak Response = 1064953056 M4
M4 = Poor automated baseline construction.

Manual Integration Report

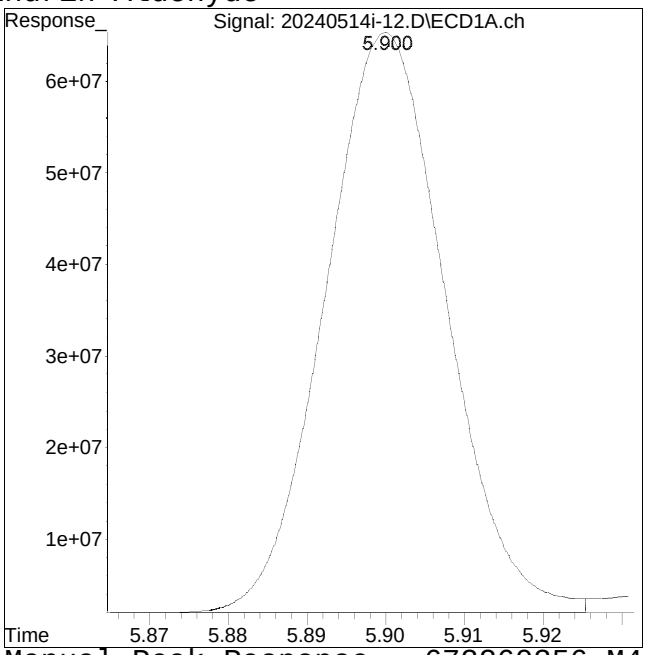
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #22: Endrin Aldehyde



Original Peak Response = 680316480



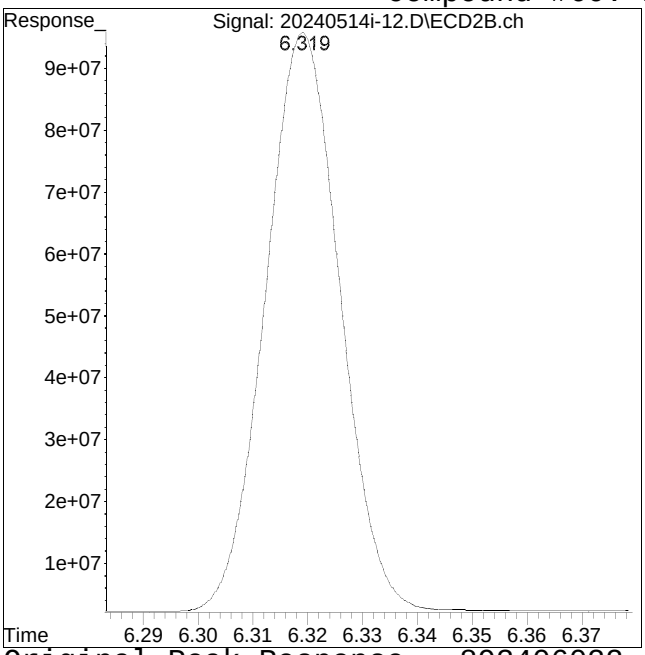
Manual Peak Response = 672260356 M4

M4 = Poor automated baseline construction.

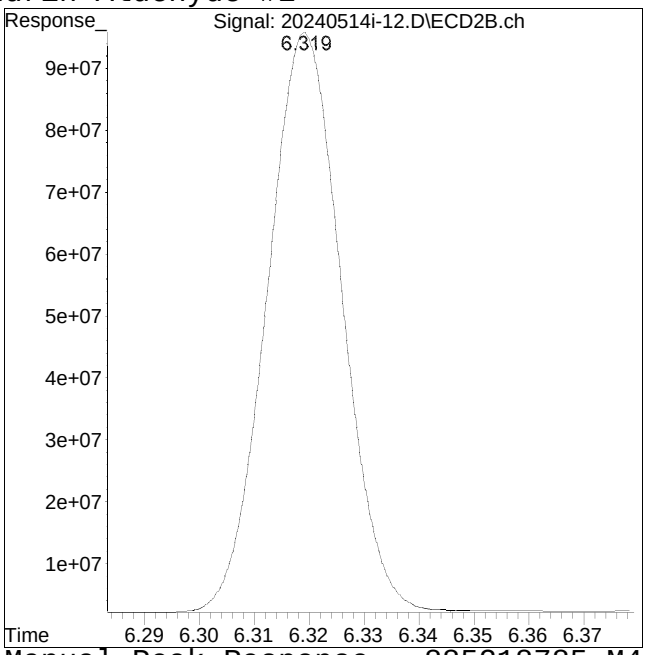
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 893406022



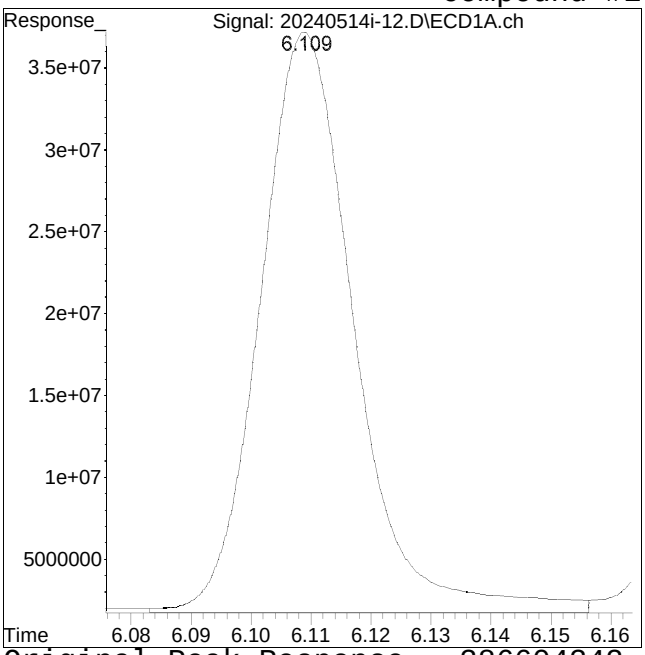
Manual Peak Response = 885218785 M4

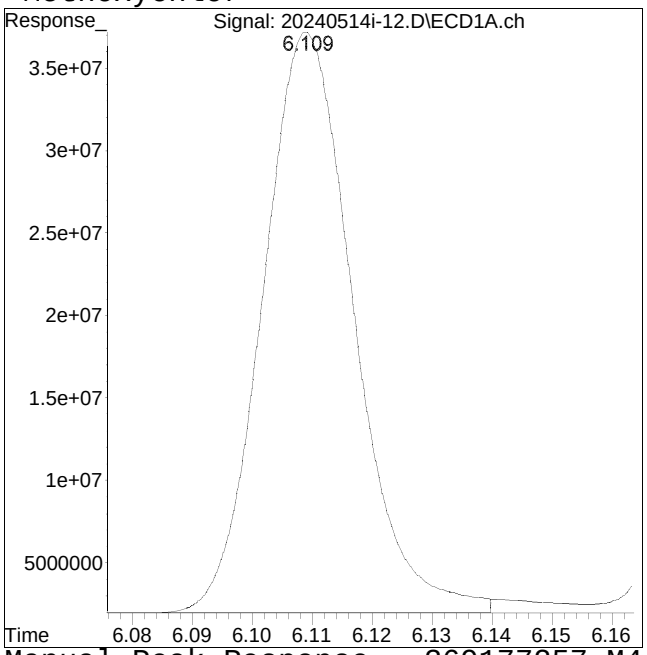
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #23: Methoxychlor



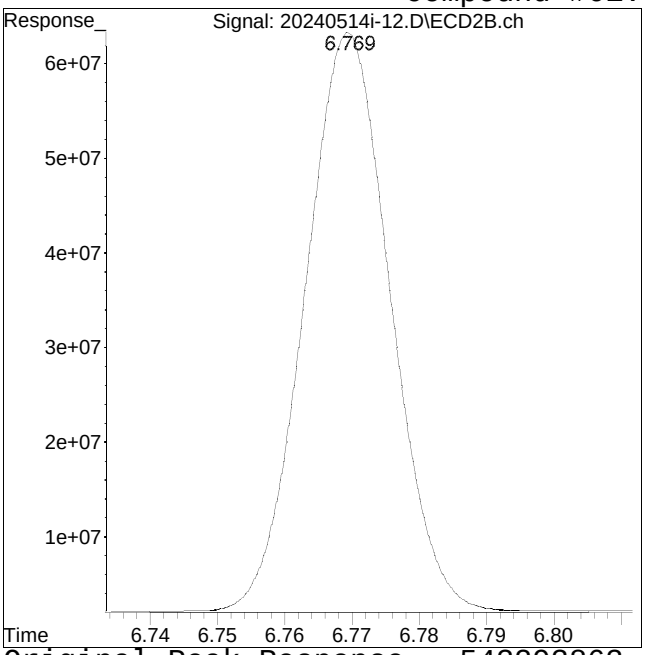


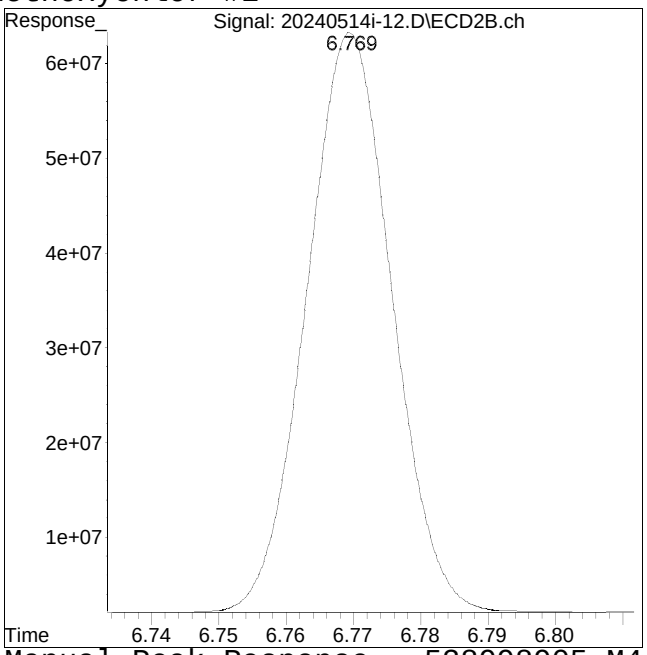
Original Peak Response = 386604342 Manual Peak Response = 369177257 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #61: Methoxychlor #2



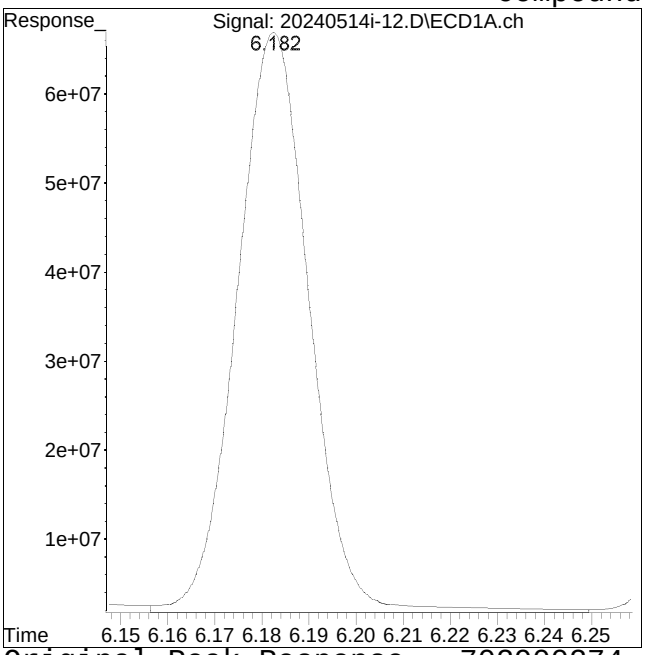


Original Peak Response = 543293863 Manual Peak Response = 538998905 M4
M4 = Poor automated baseline construction.

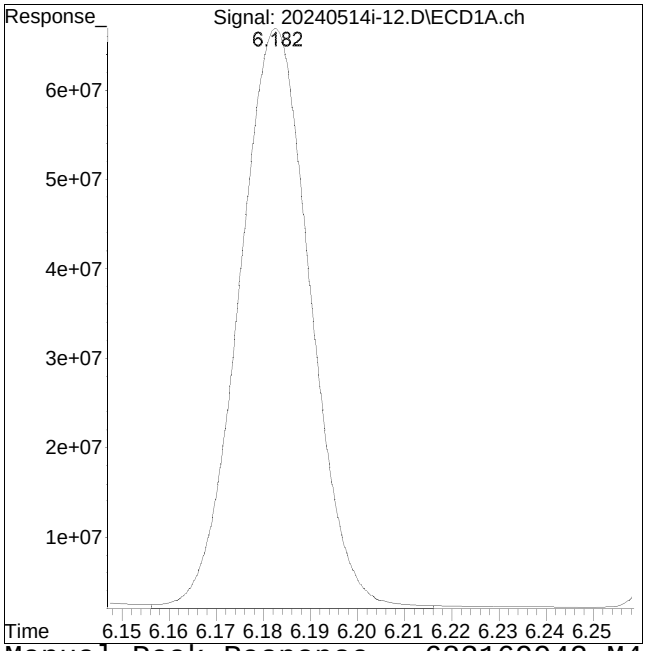
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #24: Mirex



Original Peak Response = 702900274



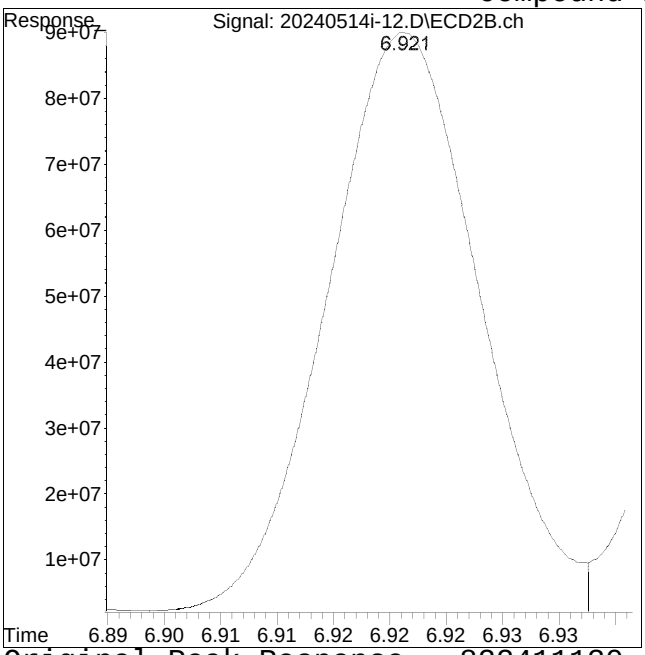
Manual Peak Response = 683169942 M4

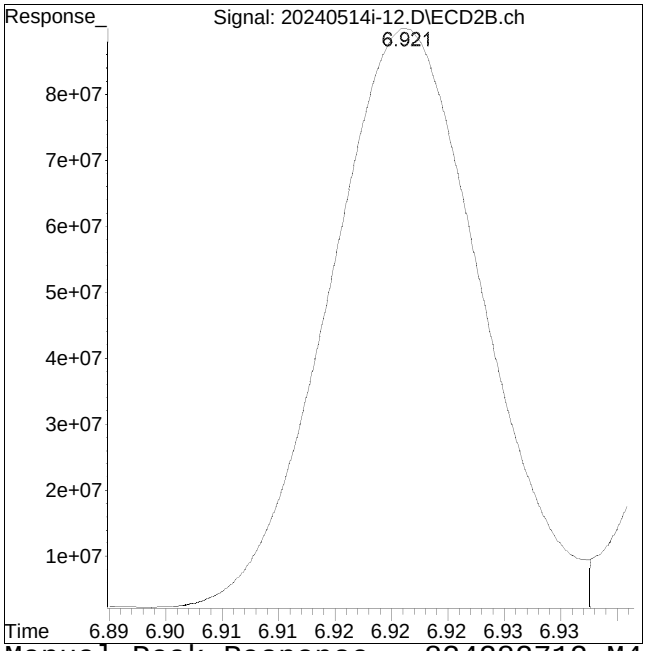
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #62: Mirex #2



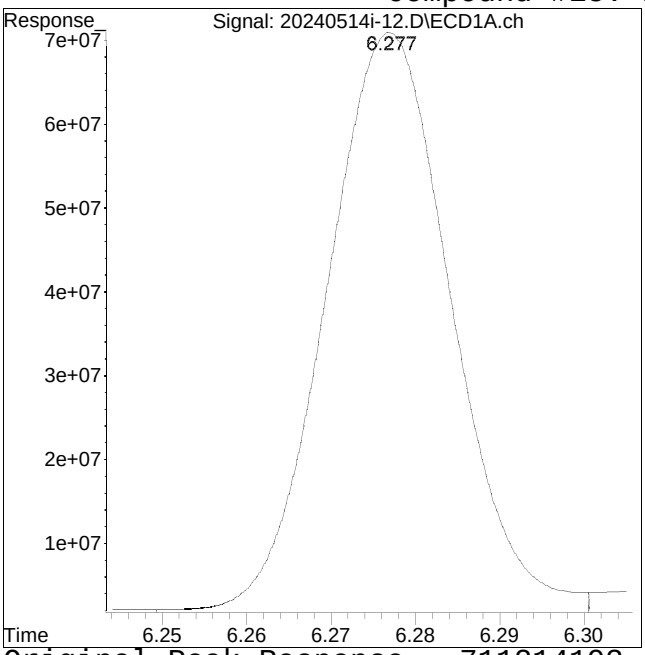


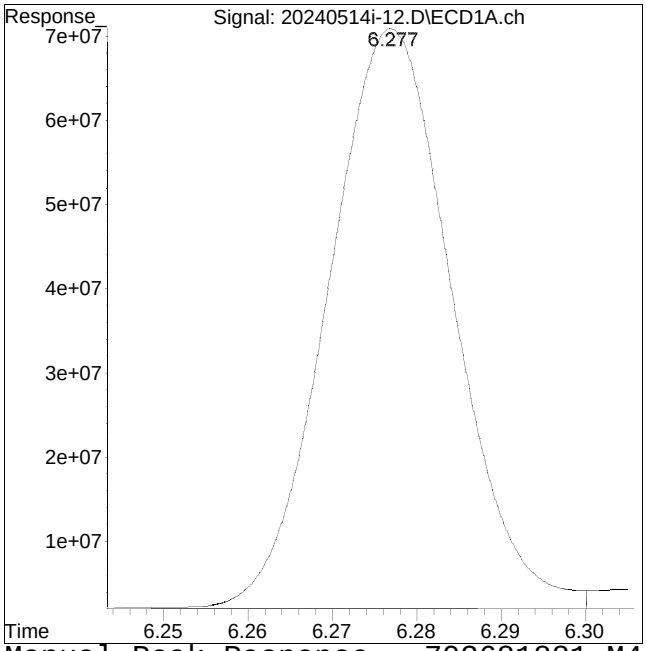
Original Peak Response = 822411130 Manual Peak Response = 824282712 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-12.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:49 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11576 L0.Quant Date : 5/16/2024 10:11 am

Compound #25: Endosulfan Sulfate



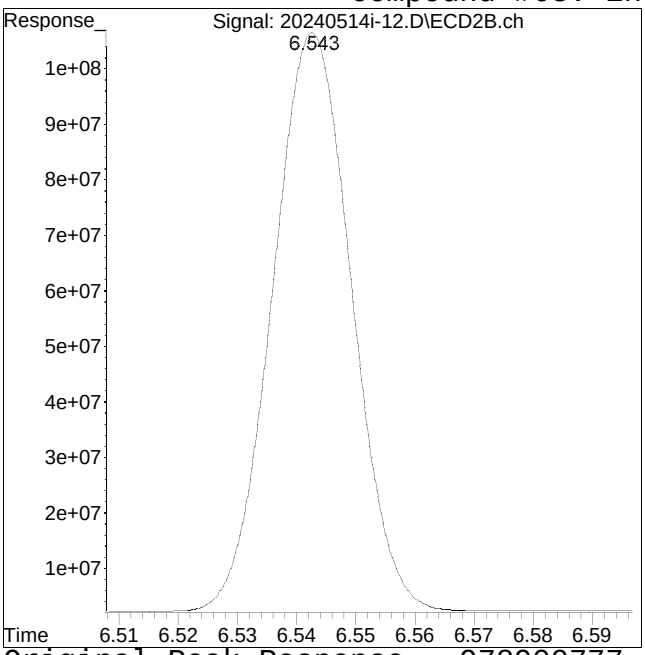


Original Peak Response = 711214193 Manual Peak Response = 703681881 M4
M4 = Poor automated baseline construction.

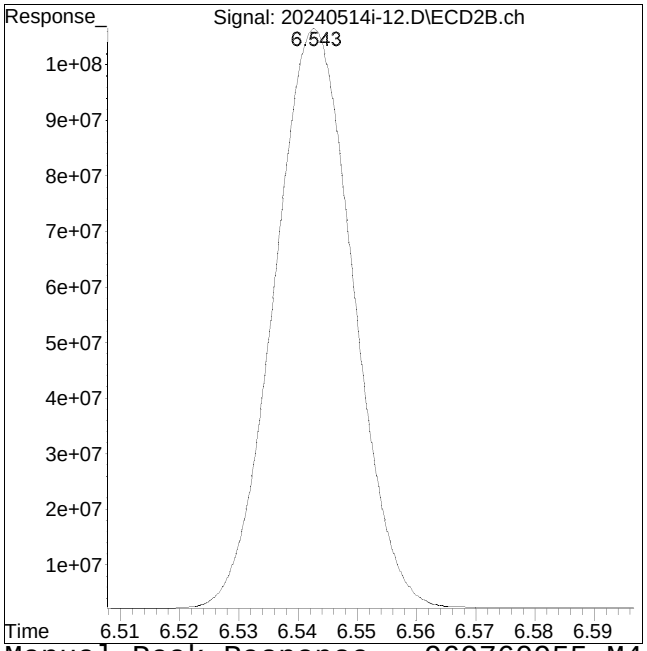
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 978900777



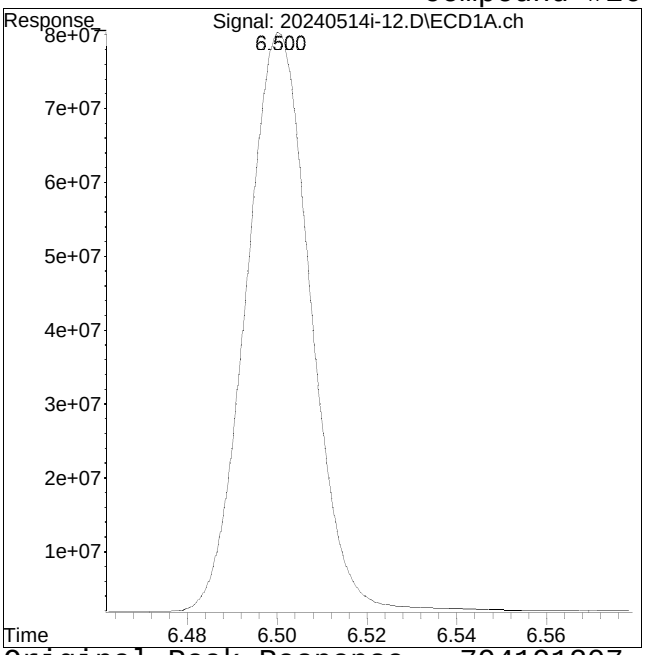
Manual Peak Response = 969760955 M4

M4 = Poor automated baseline construction.

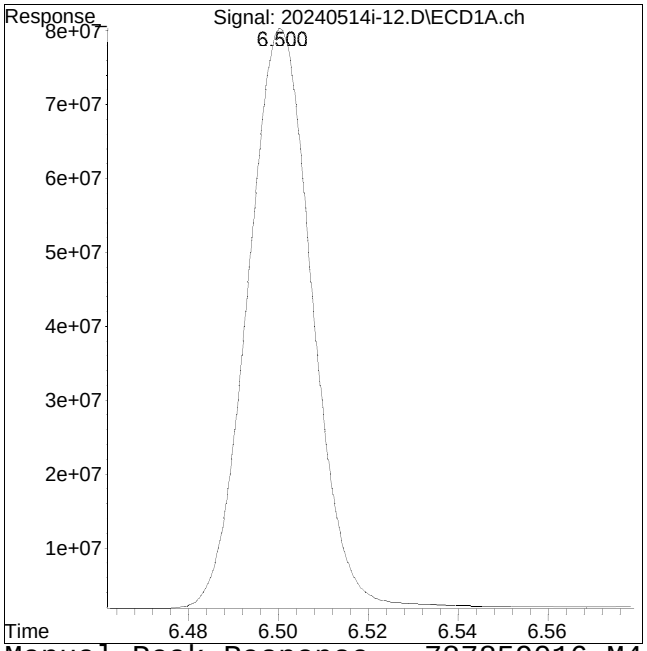
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-12.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:49 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11576 L0.Quant Date : 5/16/2024 10:11 am

Compound #26: Endrin Ketone



Original Peak Response = 794191207



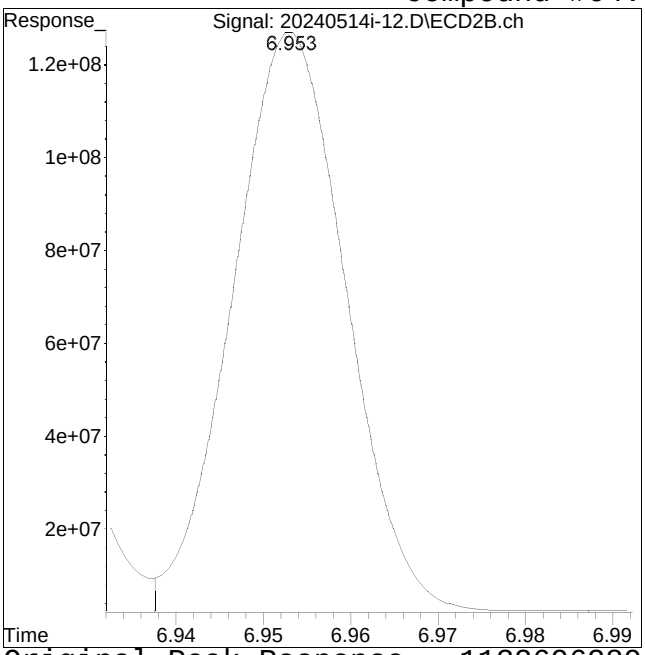
Manual Peak Response = 787859016 M4

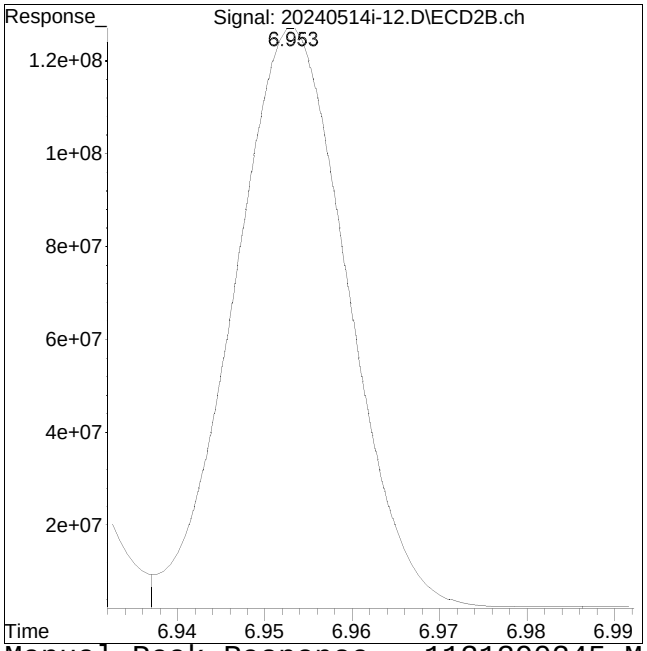
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-12.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:49 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11576 L0.Quant Date : 5/16/2024 10:11 am

Compound #64: Endrin Ketone #2



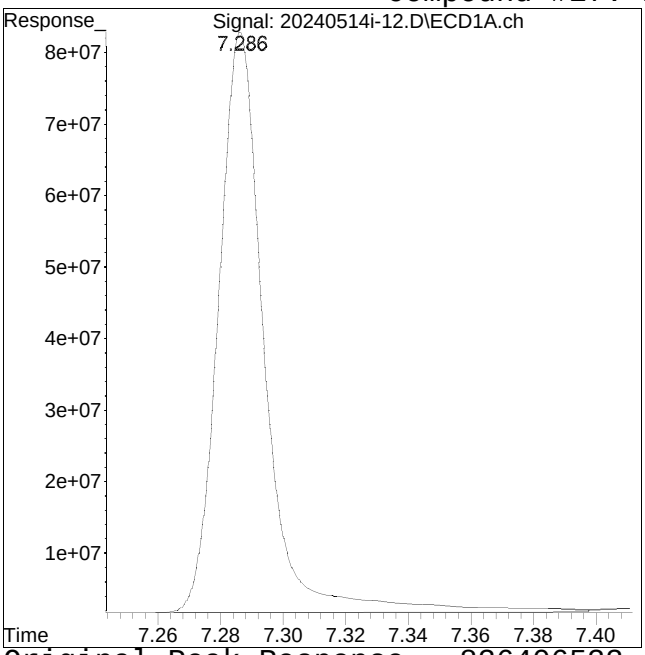


Original Peak Response = 1132696289 Manual Peak Response = 1131390245 M4
M4 = Poor automated baseline construction.

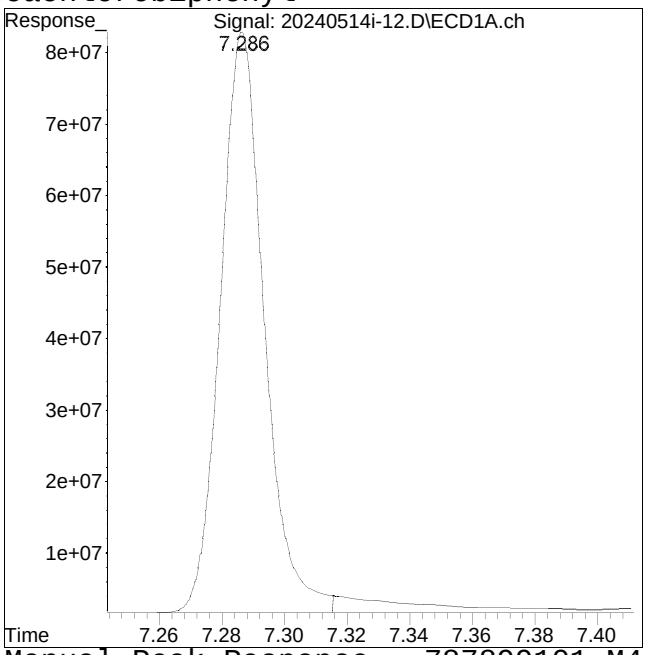
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-12.D
Date Inj'd : 5/14/2024 6:49 pm
Sample : il11pest,42e,,pp 11576 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 10:11 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 836406533



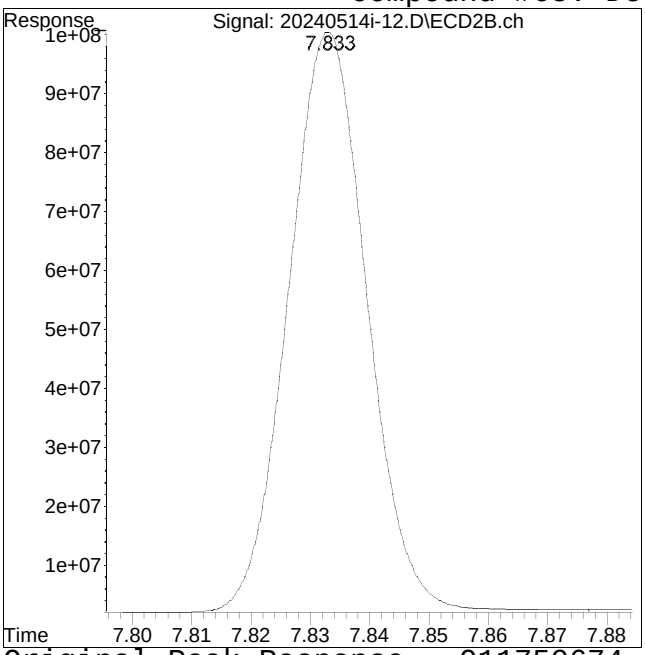
Manual Peak Response = 787899101 M4

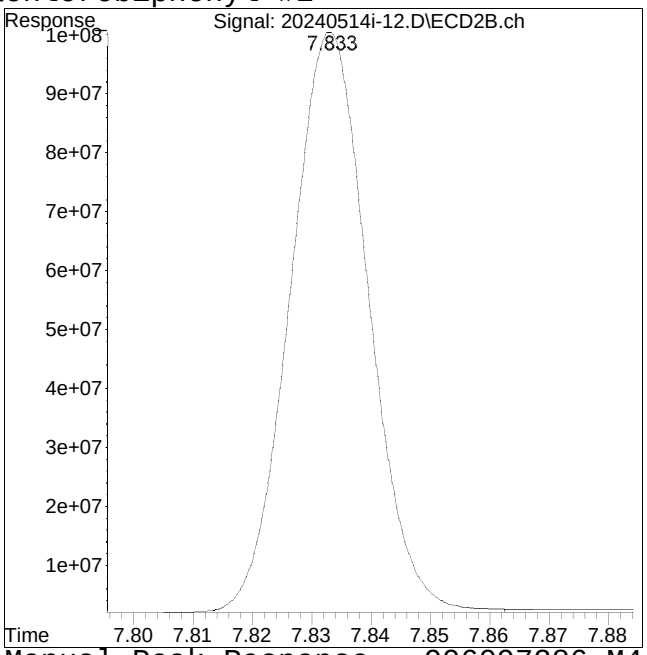
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-12.D Operator : pest20:peg
Date Inj'd : 5/14/2024 6:49 pm Instrument : PEST 20
Sample : il11pest,42e,,pp 11576 L0.Quant Date : 5/16/2024 10:11 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 911750674 Manual Peak Response = 906097286 M4
M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-13.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 14 May 2024 07:02 pm
Operator : pest20:peg
Sample   : cicvpest,42e,,pp 11536 L0.05ICV
Misc   : wg1922578,
ALS Vial : 13   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 13:45:08 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 13:45:08 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	100	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.150	1.070	7.0	104	0.00
3		Hexachlorobenzene	*	50.000	52.027	-4.1	103	0.00
4		alpha-BHC		1.370	1.345	1.8	103	0.00
5		gamma-BHC (lindane)		1.310	1.212	7.5	101	0.00
6		beta-BHC	*	50.000	52.159	-4.3	103	0.00
7		delta-BHC		1.132	1.096	3.2	100	0.00
8		Heptachlor		1.317	1.189	9.7	102	0.00
9		Aldrin		1.296	1.217	6.1	103	0.00
10		Alachlor		0.174	0.177	-1.7	104	0.00
11		Chlorpyrifos	*	50.000	53.489	-7.0	103	0.00
12		Heptachlor Epoxide		1.267	1.126	11.1	101	0.00
13		gamma-Chlordane (trans)		1.158	1.163	-0.4	115	0.00
14		alpha-Chlordane (cis)		1.322	1.154	12.7	100	0.00
15		4,4'-DDE		1.213	1.108	8.7	100	0.00
16		Endosulfan I		1.204	1.085	9.9	100	0.00
17		Dieldrin		1.227	1.206	1.7	108	0.00
18		Endrin		1.228	1.115	9.2	100	0.00
19		4,4'-DDD		0.864	0.890	-3.0	106	0.00
20		Endosulfan II		1.044	0.966	7.5	101	0.00
21		4,4'-DDT		0.935	0.894	4.4	102	0.00
22		Endrin Aldehyde	*	50.000	44.195	11.6	91	0.00
23		Methoxychlor		0.480	0.480	0.0	102	0.00
24		Mirex	*	50.000	51.697	-3.4	100	0.00
25		Endosulfan Sulfate		0.858	0.874	-1.9	108	0.00
26		Endrin Ketone		0.968	0.985	-1.8	108	0.00
27	s	Decachlorobiphenyl	*	50.000	42.343	15.3	83	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-13.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 14 May 2024 07:02 pm
Operator : pest20:peg
Sample   : cicvpest,42e,,pp 11536 L0.05ICV
Misc   : wg1922578,
ALS Vial : 13   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 13:45:08 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 13:45:08 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	101	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.109	1.060	4.4	105	0.00
3		Hexachlorobenzene	*	50.000	51.981	-4.0	104	0.00
4		alpha-BHC		1.369	1.358	0.8	104	0.00
5		gamma-BHC (lindane)		1.336	1.228	8.1	102	0.00
6		beta-BHC	*	50.000	51.576	-3.2	103	0.00
7		delta-BHC		1.265	1.194	5.6	100	0.00
8		Heptachlor		1.260	1.161	7.9	103	0.00
9		Aldrin		1.185	1.138	4.0	103	0.00
10		Alachlor		0.188	0.177	5.9	105	0.00
11		Chlorpyrifos	*	50.000	53.653	-7.3	103	0.00
12		Heptachlor Epoxide		1.198	1.078	10.0	101	0.00
13		gamma-Chlordane (trans)		1.060	1.090	-2.8	115	0.00
14		alpha-Chlordane (cis)		1.173	1.067	9.0	101	0.00
15		4,4'-DDE		1.143	1.074	6.0	100	0.00
16		Endosulfan I		1.098	0.993	9.6	100	0.00
17		Dieldrin		1.122	1.126	-0.4	108	0.00
18		Endrin		1.138	1.058	7.0	100	0.00
19		4,4'-DDD		0.922	0.924	-0.2	106	0.00
20		Endosulfan II		1.035	0.970	6.3	103	0.00
21		4,4'-DDT		1.005	0.949	5.6	101	0.00
22		Endrin Aldehyde	*	50.000	44.554	10.9	90	0.00
23		Methoxychlor		0.583	0.541	7.2	103	0.00
24		Mirex	*	50.000	51.432	-2.9	101	0.00
25		Endosulfan Sulfate		0.976	0.917	6.0	104	0.00
26		Endrin Ketone		1.124	1.103	1.9	106	0.00
27	s	Decachlorobiphenyl	*	50.000	41.245	17.5	81	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-13.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 14 May 2024 07:02 pm
Operator : pest20:peg
Sample   : cicvpest,42e,,pp 11536 L0.05ICV
Misc   : wg1922578,
ALS Vial : 13   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 13:45:08 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 13:45:08 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.94#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-3.38#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.86#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-4.48#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-4.61#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.93#
34	l2	toxaphene-1		0.042	0.000	100.0#	0#	-5.50#
35	l2	toxaphene-2		0.031	0.000	100.0#	0#	-6.01#
36	l2	toxaphene-4		0.025	0.000	100.0#	0#	-6.11#
37	l2	toxaphene-5		0.039	0.000	100.0#	0#	-6.19#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.97#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-3.68#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-4.34#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-5.06#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-5.22#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.97#
34	l2	toxaphene-1		0.022	0.000	100.0#	0#	-5.99#
35	l2	toxaphene-2		0.032	0.000	100.0#	0#	-6.02#
36	l2	toxaphene-4		0.038	0.000	100.0#	0#	-6.33#
37	l2	toxaphene-5		0.036	0.000	100.0#	0#	-6.73#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-13.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 07:02 pm
Operator : pest20:peg
Sample : cicvpest,42e,,pp 11536 L0.05ICV
Misc : wg1922578,
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 13:45:08 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 13:45:08 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.933	1.972	51957293	69486294	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.406	2.577	111.2E6	147.4E6	46.511	47.804
	Spiked Amount 50.000	Range 30 - 150		Recovery =		93.02%	95.61%
27) s	Decachlorobi	7.287	7.833	87960894	100.9E6	42.343M4	41.245M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		84.69%	82.49%
	Target Compounds						
3)	Hexachlorobe	2.675	2.954	114.1E6	150.8E6	52.027M4	51.981M4
4)	alpha-BHC	2.799	3.068	139.8E6	188.7E6	49.113M4	49.582M4
5)	gamma-BHC (l	3.043	3.392	126.0E6	170.7E6	46.258M4	45.970M4
6)	beta-BHC	3.112	3.466	60745821	81916138	52.159M4	51.576M4
7)	delta-BHC	3.263	3.762	113.9E6	166.0E6	48.404M4	47.216
8)	Heptachlor	3.451	3.832	123.6E6	161.4E6	45.148M4	46.081
9)	Aldrin	3.728	4.180	126.4E6	158.1E6	46.946M4	48.020M4
10)	Alachlor	3.870	4.057	18361793	24665052	50.729M4	47.176
11)	Chlorpyrifos	3.973	4.438	55119532	80188453	53.489M4	53.653
12)	Heptachlor E	4.340	4.841	117.0E6	149.8E6	44.457M4	45.008

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-13.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 07:02 pm
Operator : pest20:peg
Sample : cicvpest,42e,,pp 11536 L0.05ICV
Misc : wg1922578,
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 13:45:08 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 13:45:08 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13)		gamma-Chlord	4.477	5.059	120.9E6	151.4E6	50.238M4	51.424M4
14)		alpha-Chlord	4.625	5.218	119.9E6	148.3E6	43.636M4	45.493M4
15)		4,4'-DDE	4.731	5.402	115.1E6	149.3E6	45.647	47.005M4
16)		Endosulfan I	4.774	5.277	112.7E6	137.9E6	45.039M4	45.206M4
17)		Dieldrin	5.043	5.555	125.3E6	156.5E6	49.142M4	50.174M4
18)		Endrin	5.282	5.841	115.9E6	147.0E6	45.419M4	46.454M4
19)		4,4'-DDD	5.378	5.952	92436326	128.4E6	51.453M4	50.082M4
20)		Endosulfan I	5.506	6.033	100.4E6	134.8E6	46.267M4	46.876M4
21)		4,4'-DDT	5.651	6.221	92902380	131.9E6	47.784M4	47.219M4
22)		Endrin Aldeh	5.901	6.320	72240868	98390862	44.195M4	44.554M4
23)		Methoxychlor	6.110	6.770	49867175	75223663	49.988M4	46.386M4
24)		Mirex	6.183	6.921	94200166	112.7E6	51.697M4	51.432M4
25)		Endosulfan S	6.277	6.543	90844392	127.4E6	50.948M4	46.957M4
26)		Endrin Keton	6.501	6.953	102.3E6	153.3E6	50.842M4	49.058M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-13.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 07:02 pm
Operator : pest20:peg
Sample : cicvpest,42e,,pp 11536 L0.05ICV
Misc : wg1922578,
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 13:45:08 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 13:45:08 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34)	l2 toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2 toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2 toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2 toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

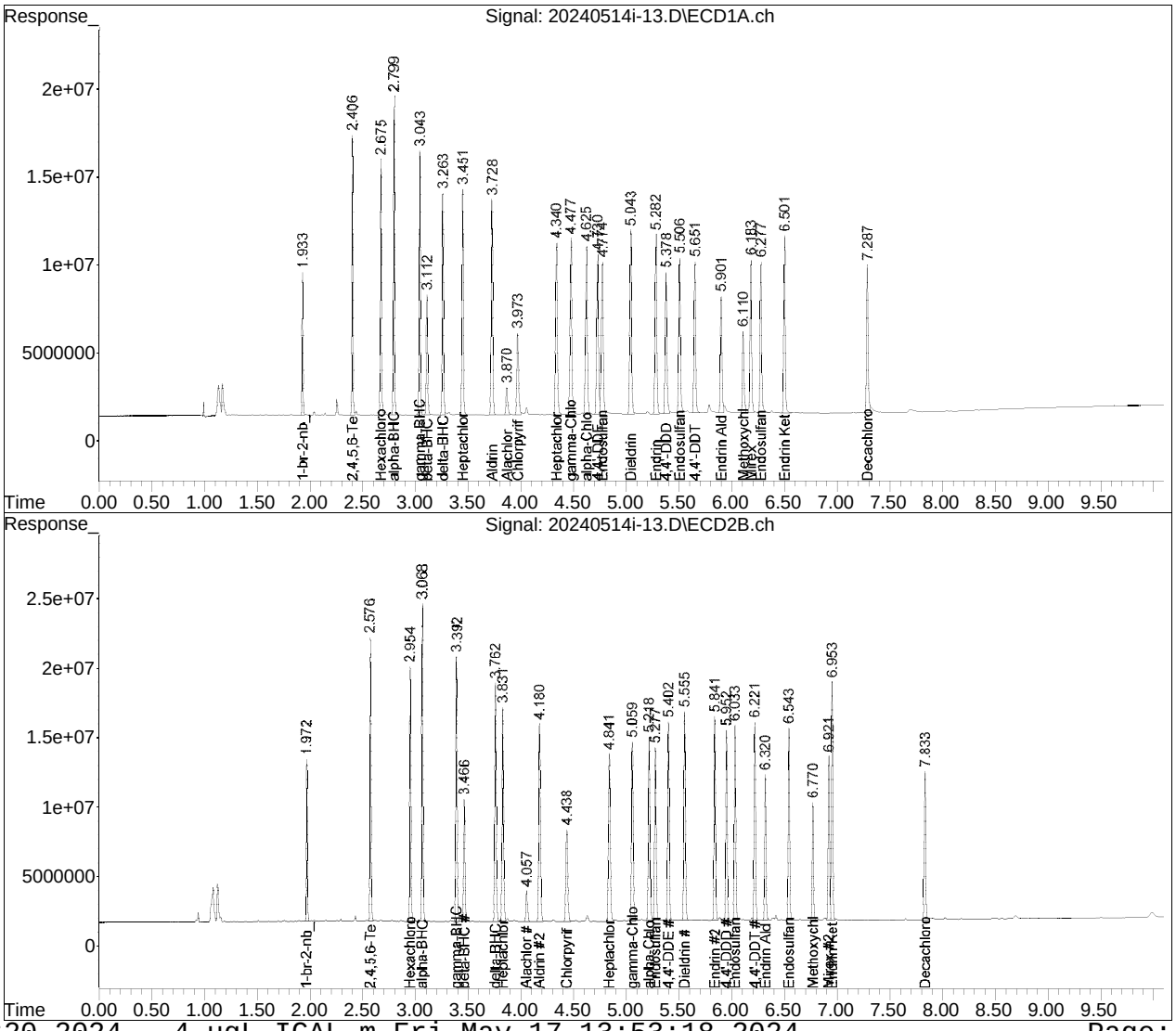
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-13.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 07:02 pm
Operator : pest20:peg
Sample : cicvpest,42e,,pp 11536 L0.05ICV
Misc : wg1922578,
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 13:45:08 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 13:45:08 2024
Response via : Initial Calibration
Integrator: ChemStation

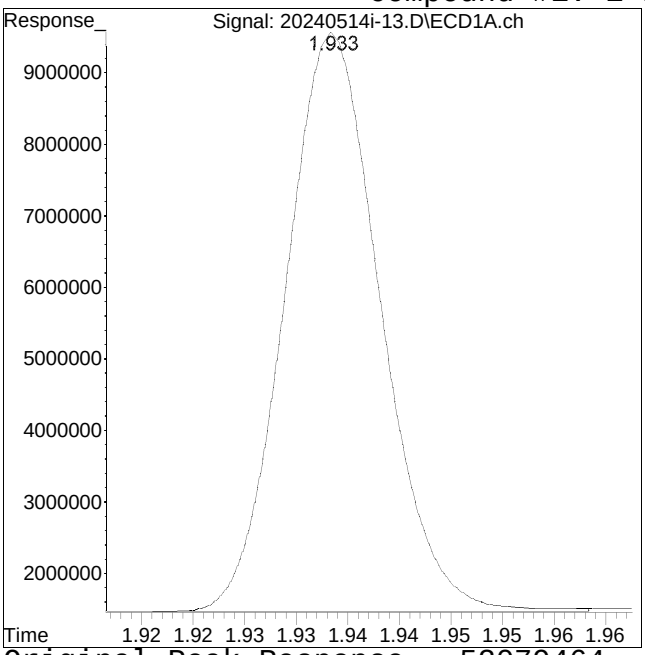
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



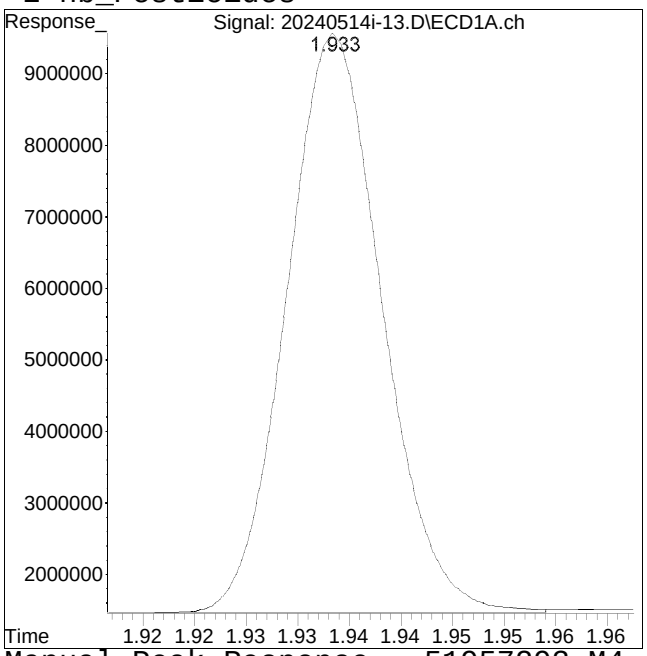
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-13.D
Date Inj'd : 5/14/2024 7:02 pm
Sample : cicvpest,42e,,pp 11536 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/17/2024 1:45 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 52079464



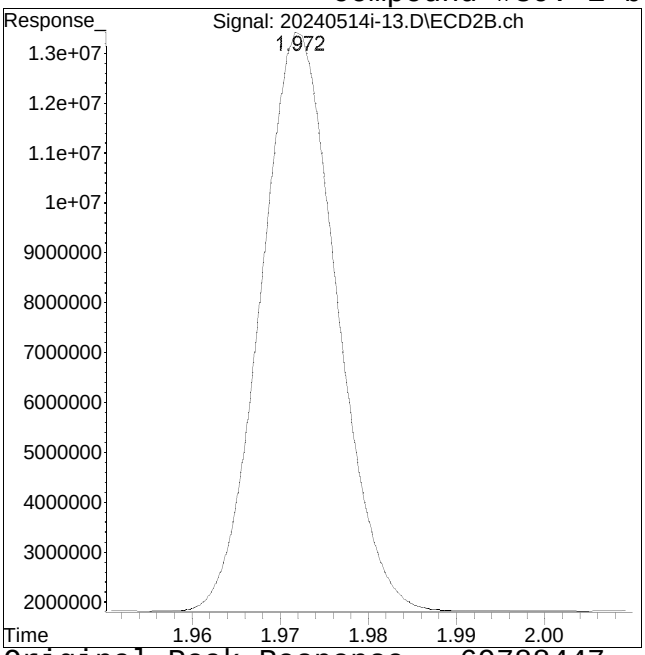
Manual Peak Response = 51957293 M4

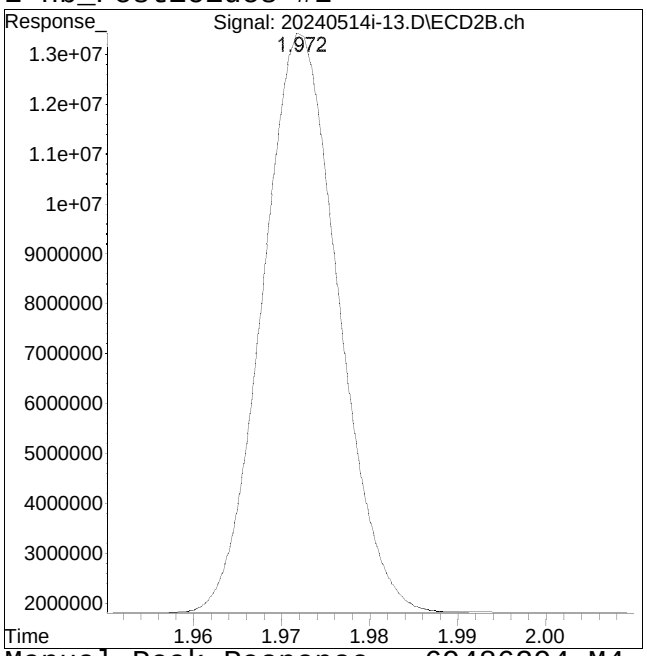
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-13.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:02 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/17/2024 1:45 pm

Compound #39: 1-br-2-nb_Pesticides #2



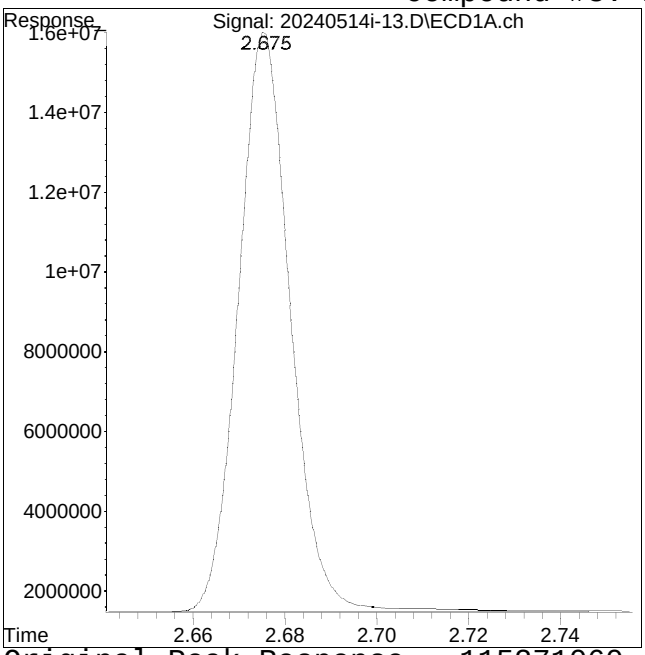


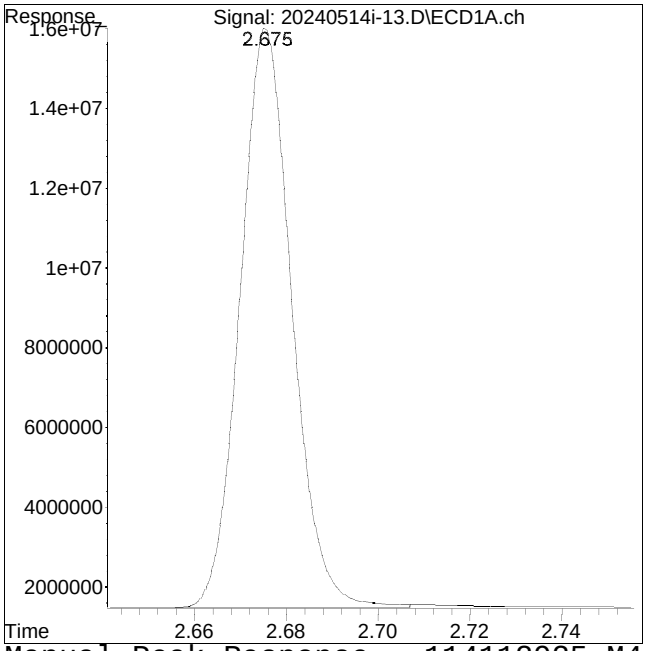
Original Peak Response = 69788447 Manual Peak Response = 69486294 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-13.D
Date Inj'd : 5/14/2024 7:02 pm
Sample : cicvpest,42e,,pp 11536 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/17/2024 1:45 pm

Compound #3: Hexachlorobenzene



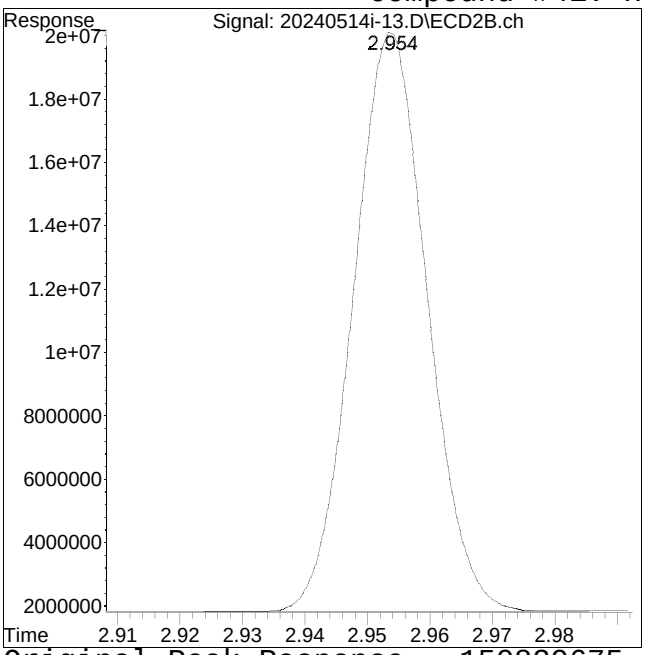


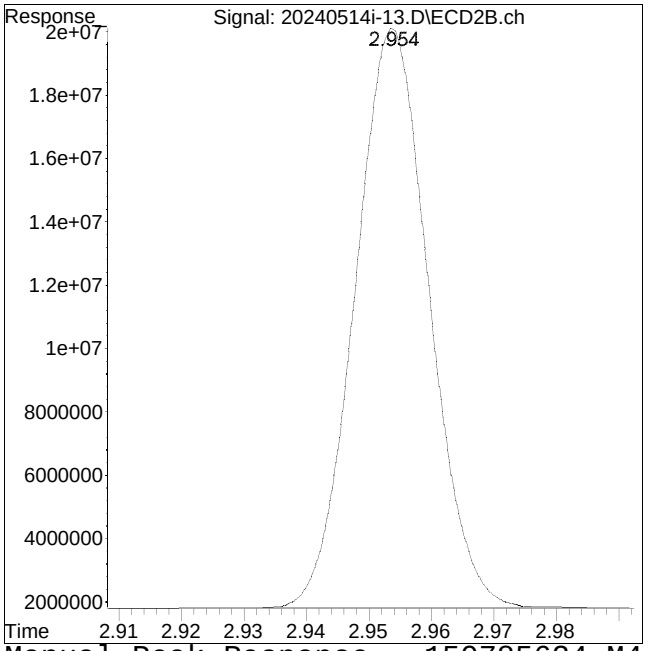
Original Peak Response = 115271060 Manual Peak Response = 114112925 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-13.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:02 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/17/2024 1:45 pm

Compound #41: Hexachlorobenzene #2



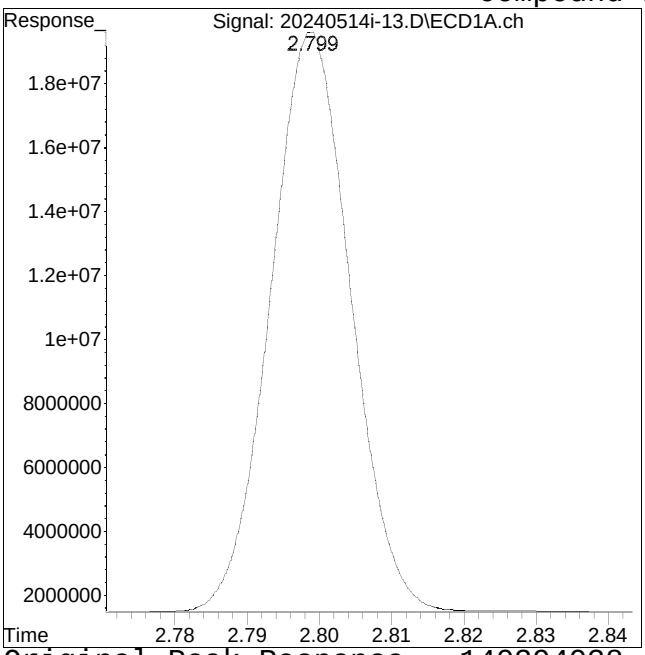


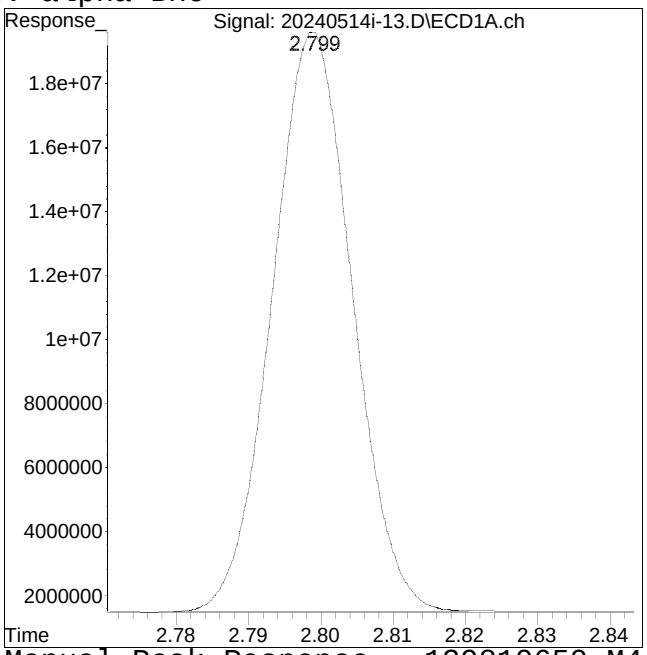
Original Peak Response = 150829675 Manual Peak Response = 150785624 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-13.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:02 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/17/2024 1:45 pm

Compound #4: alpha-BHC



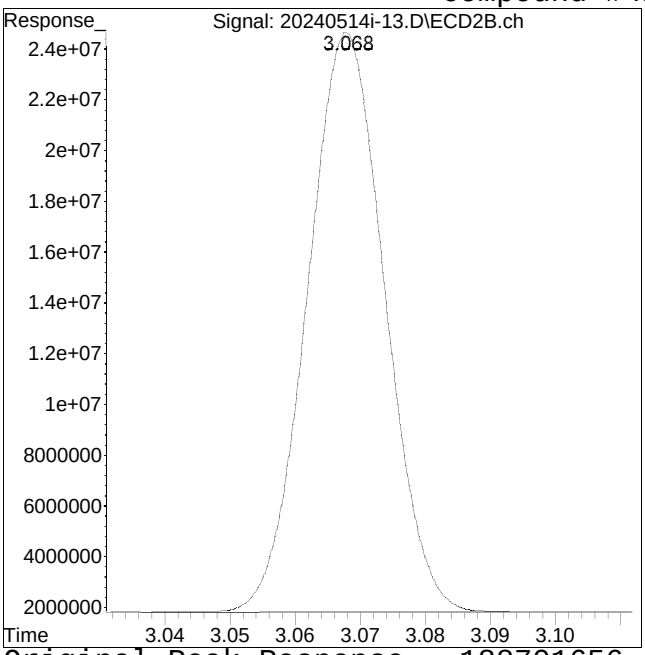


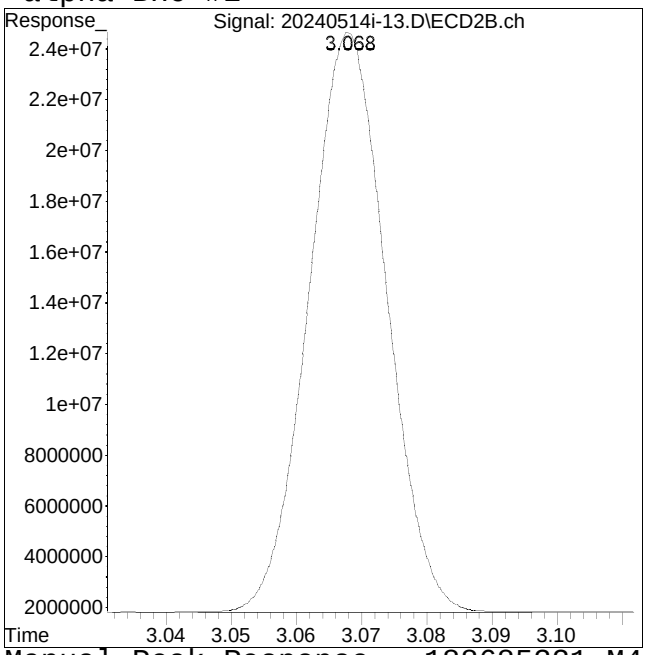
Original Peak Response = 140394938 Manual Peak Response = 139810650 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-13.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:02 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/17/2024 1:45 pm

Compound #42: alpha-BHC #2



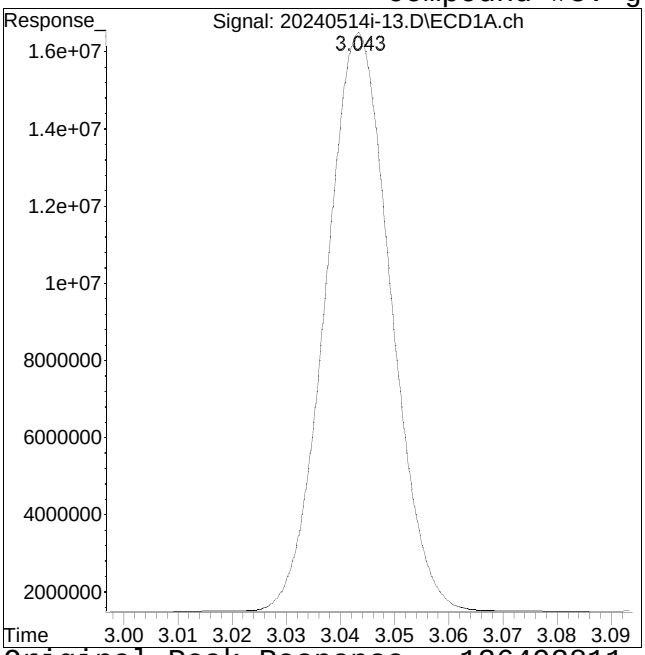


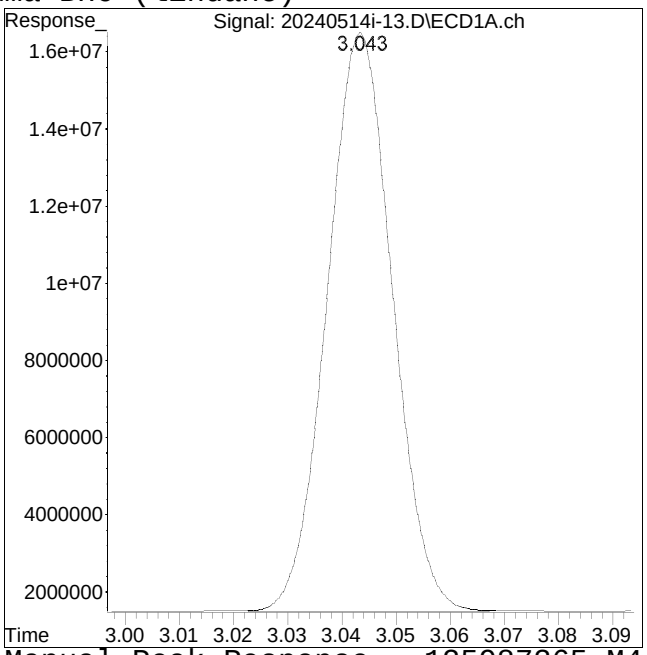
Original Peak Response = 188701656 Manual Peak Response = 188685321 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-13.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:02 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/17/2024 1:45 pm

Compound #5: gamma-BHC (lindane)



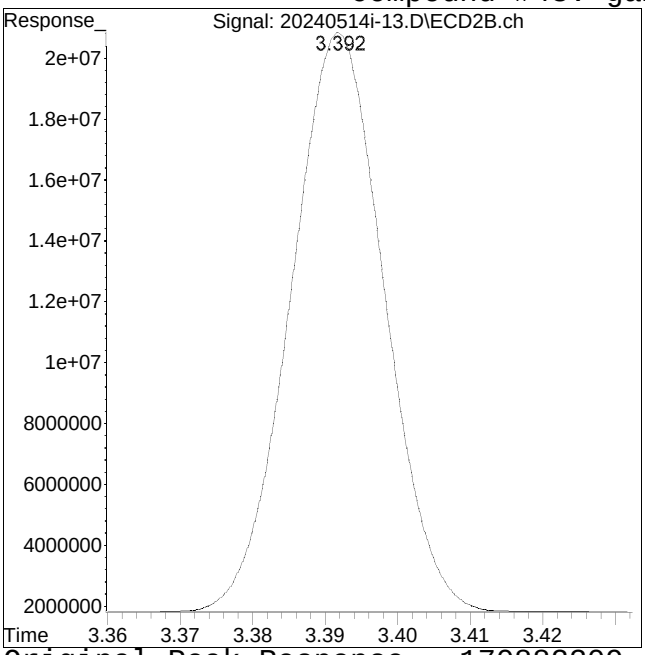


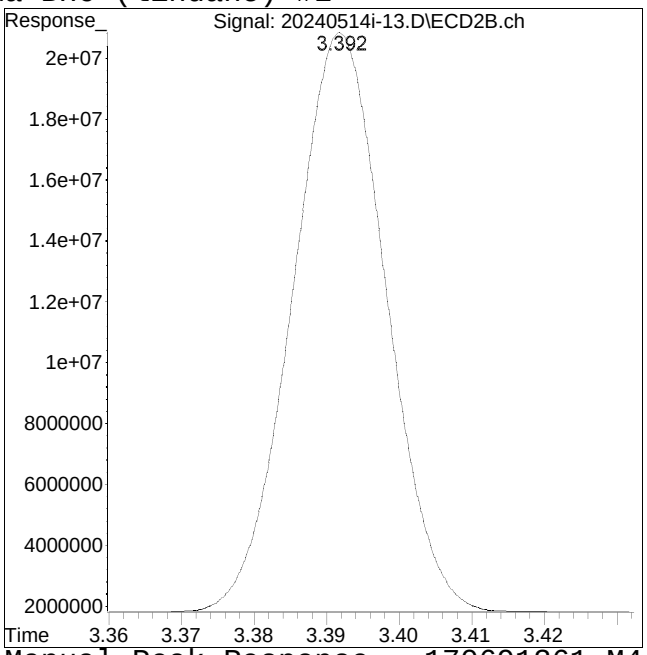
Original Peak Response = 126492811 Manual Peak Response = 125987365 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-13.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:02 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/17/2024 1:45 pm

Compound #43: gamma-BHC (lindane) #2





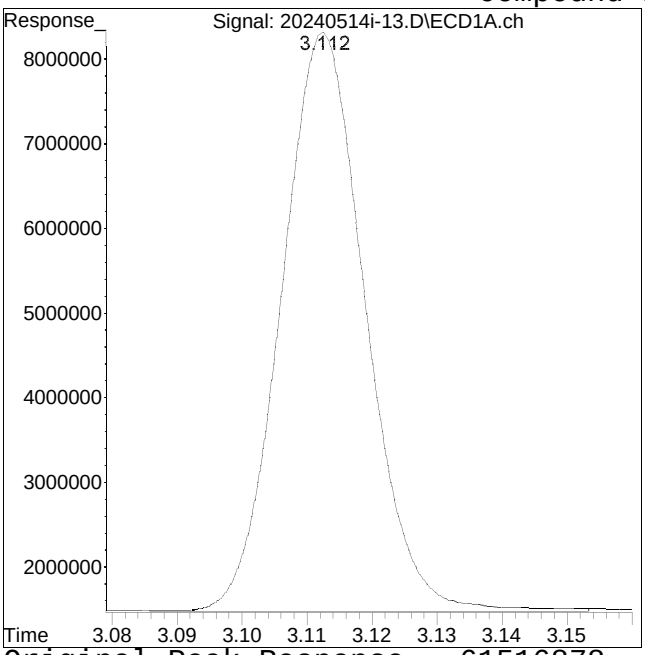
Original Peak Response = 170882309 Manual Peak Response = 170691361 M4
M4 = Poor automated baseline construction.

Manual Integration Report

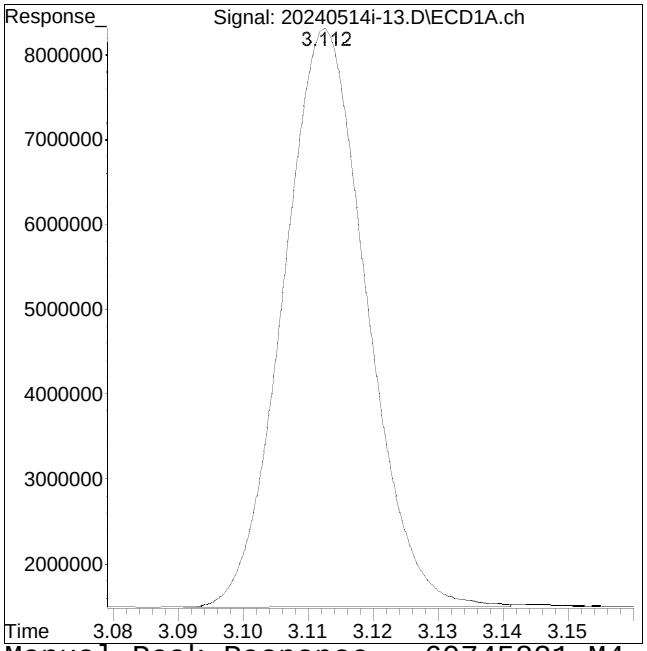
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-13.D
Date Inj'd : 5/14/2024 7:02 pm
Sample : cicvpest,42e,,pp 11536 L0.

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/17/2024 1:45 pm

Compound #6: beta-BHC



Original Peak Response = 61516878



Manual Peak Response = 60745821 M4

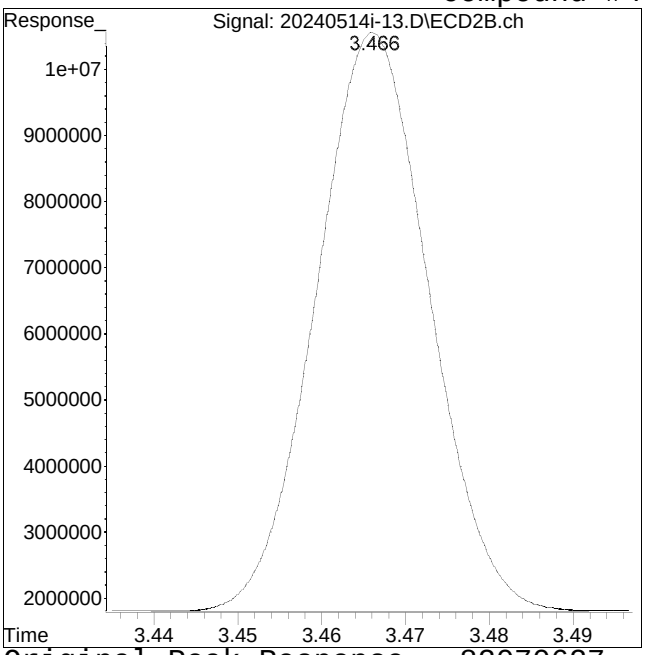
M4 = Poor automated baseline construction.

Manual Integration Report

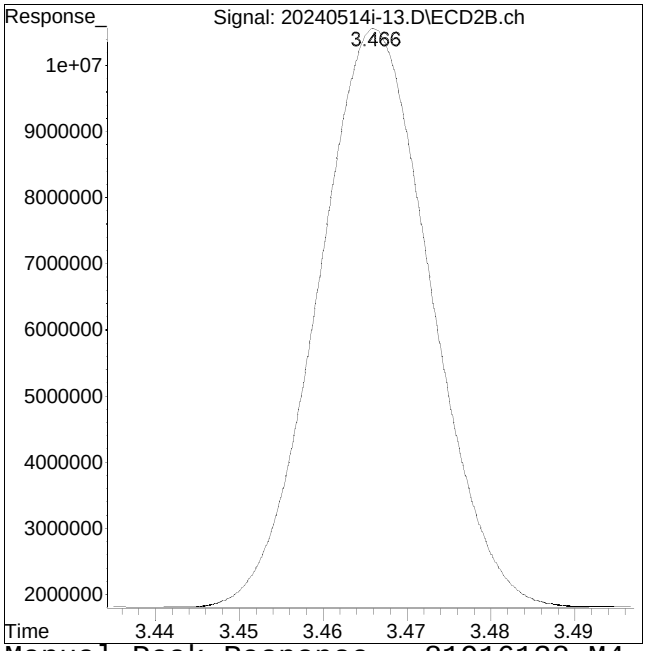
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-13.D
Date Inj'd : 5/14/2024 7:02 pm
Sample : cicvpest,42e,,pp 11536 L0.

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/17/2024 1:45 pm

Compound #44: beta-BHC #2



Original Peak Response = 82070627



Manual Peak Response = 81916138 M4

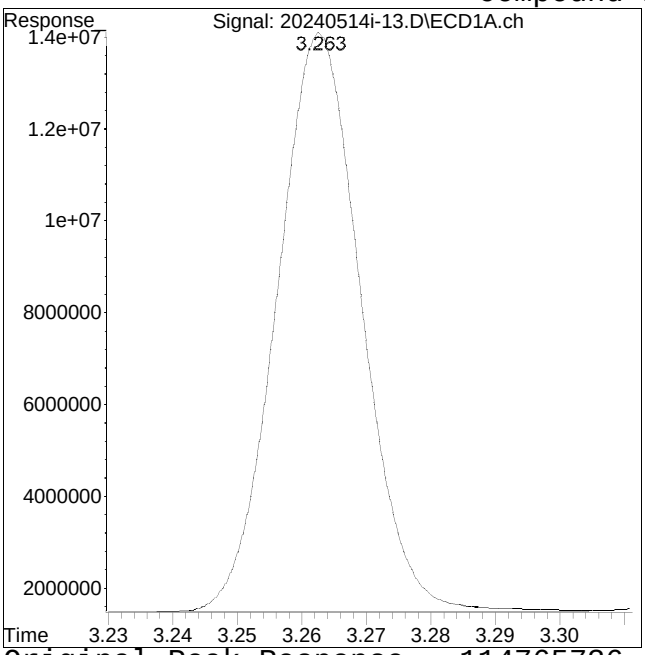
M4 = Poor automated baseline construction.

Manual Integration Report

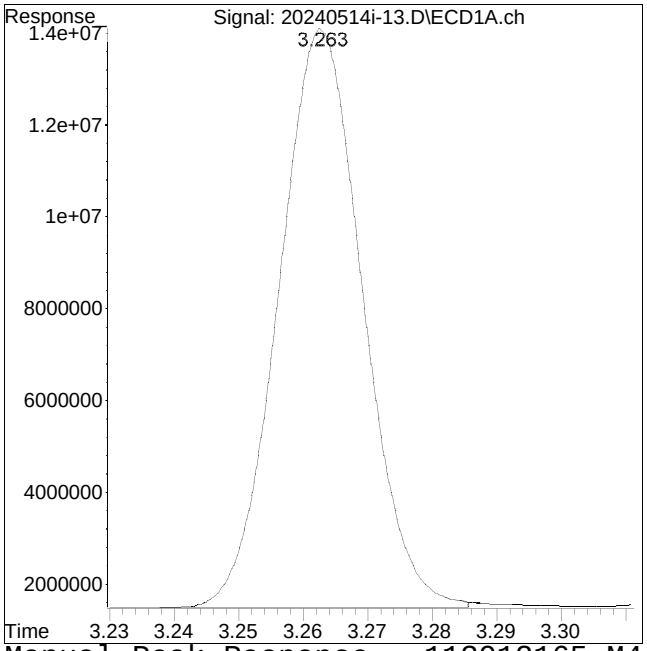
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-13.D
Date Inj'd : 5/14/2024 7:02 pm
Sample : cicvpest,42e,,pp 11536 L0.

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/17/2024 1:45 pm

Compound #7: delta-BHC



Original Peak Response = 114765736



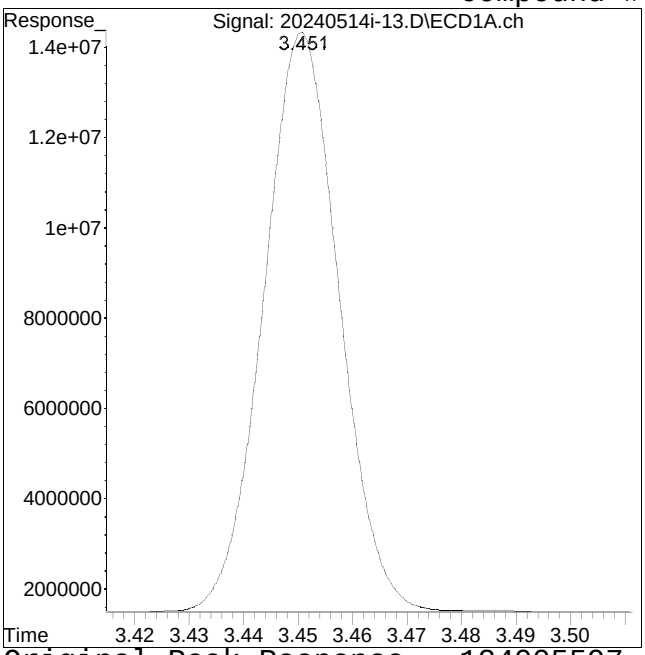
Manual Peak Response = 113912165 M4

M4 = Poor automated baseline construction.

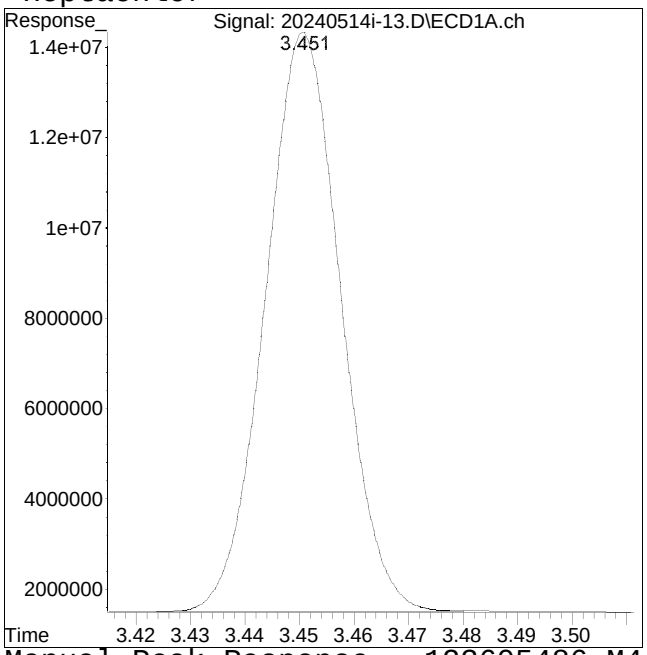
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-13.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:02 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/17/2024 1:45 pm

Compound #8: Heptachlor



Original Peak Response = 124005597



Manual Peak Response = 123605486 M4

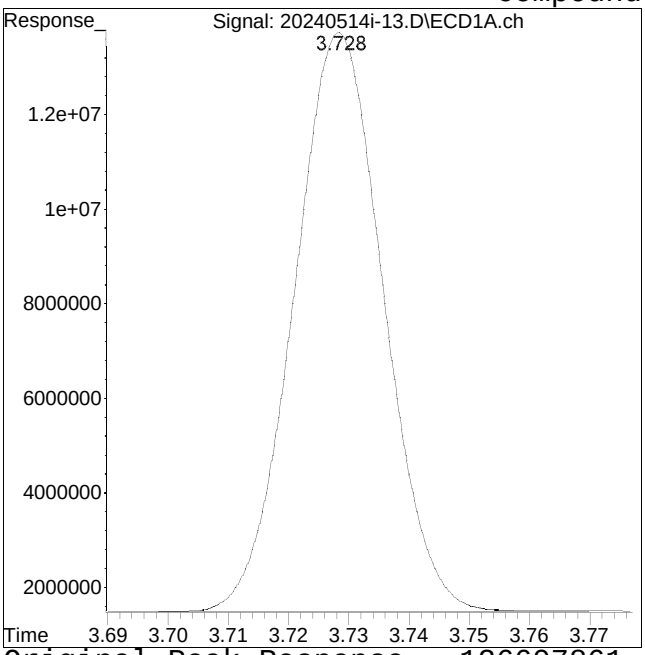
M4 = Poor automated baseline construction.

Manual Integration Report

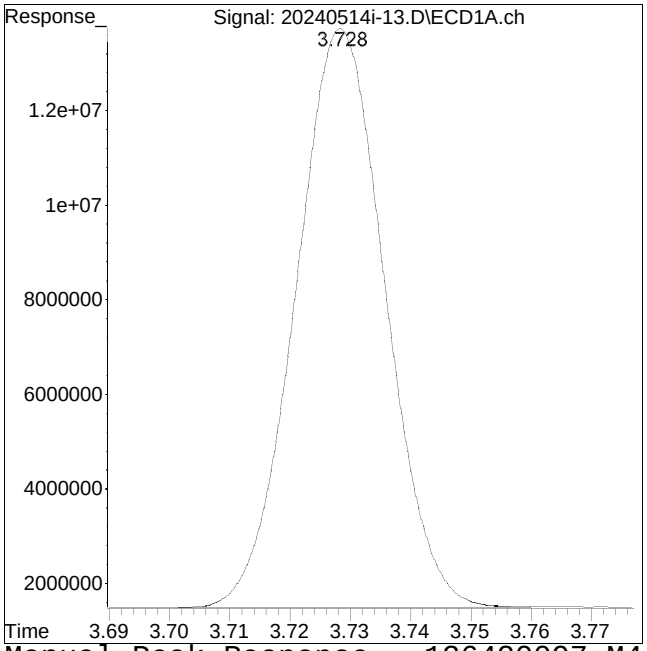
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-13.D
Date Inj'd : 5/14/2024 7:02 pm
Sample : cicvpest,42e,,pp 11536 L0.

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/17/2024 1:45 pm

Compound #9: Aldrin



Original Peak Response = 126607861



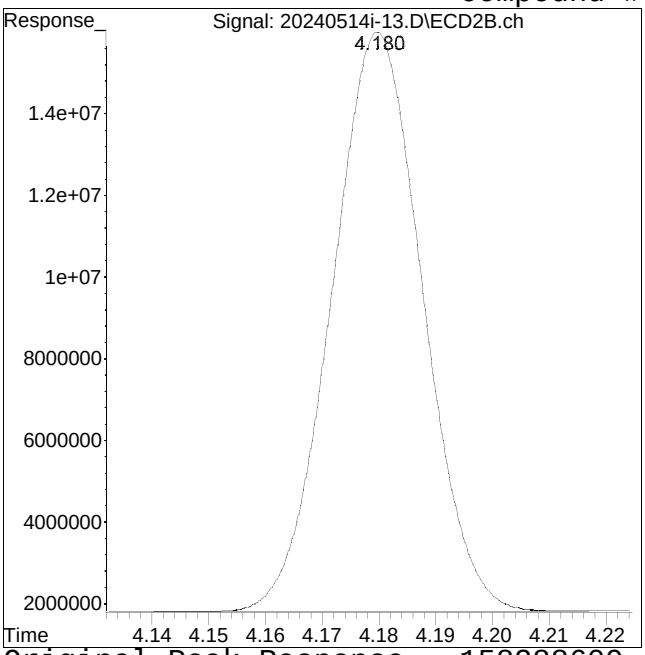
Manual Peak Response = 126420097 M4

M4 = Poor automated baseline construction.

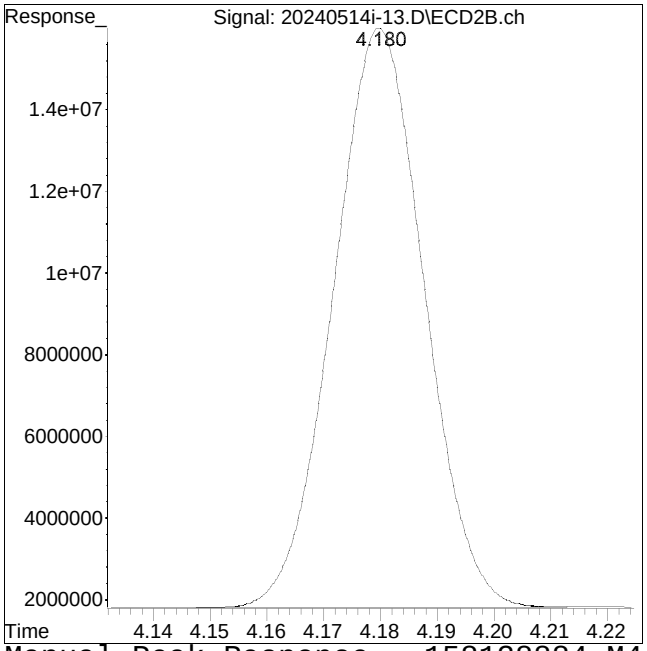
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-13.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:02 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/17/2024 1:45 pm

Compound #47: Aldrin #2



Original Peak Response = 158288609



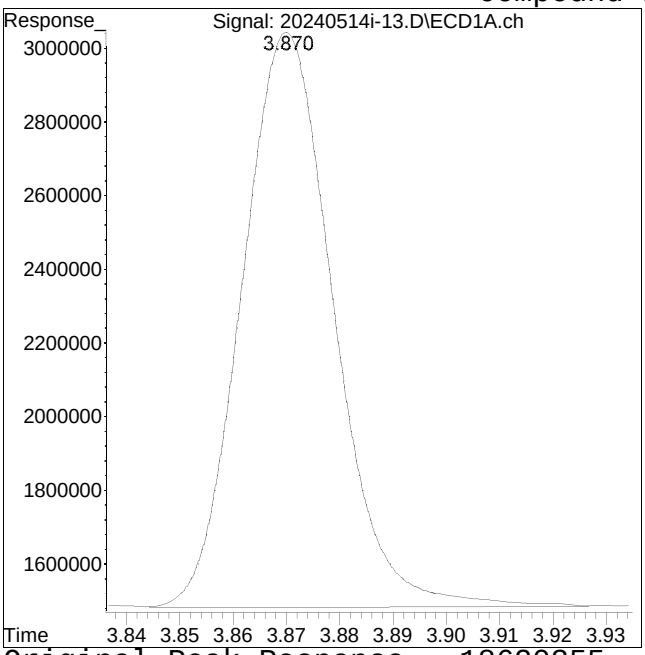
Manual Peak Response = 158138884 M4

M4 = Poor automated baseline construction.

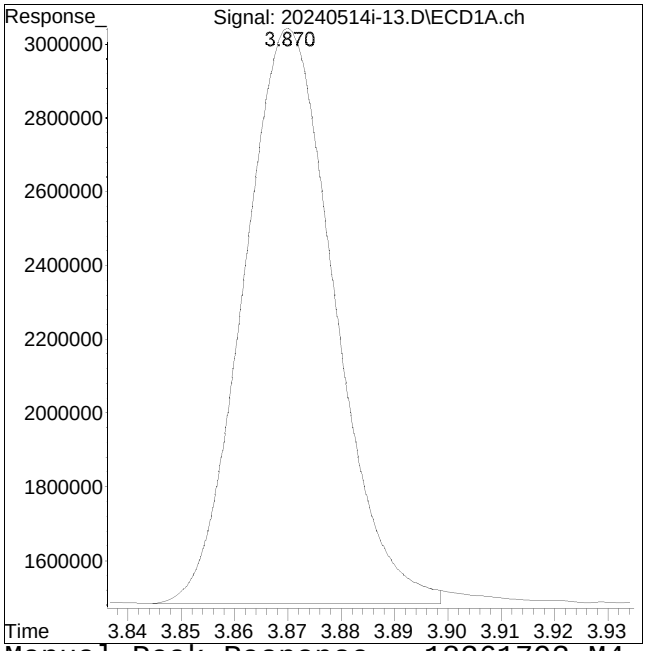
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-13.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:02 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/17/2024 1:45 pm

Compound #10: Alachlor



Original Peak Response = 18620355



Manual Peak Response = 18361793 M4

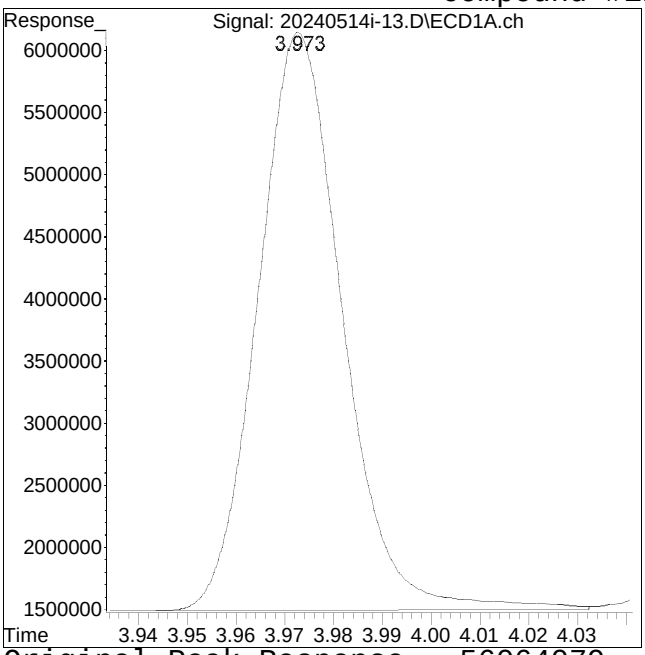
M4 = Poor automated baseline construction.

Manual Integration Report

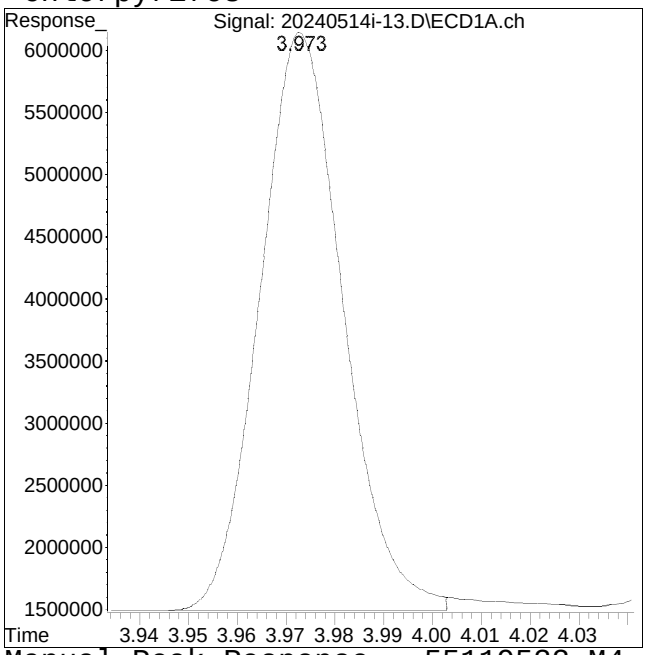
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-13.D
Date Inj'd : 5/14/2024 7:02 pm
Sample : cicvpest,42e,,pp 11536 L0.

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/17/2024 1:45 pm

Compound #11: Chlorpyrifos



Original Peak Response = 56064079



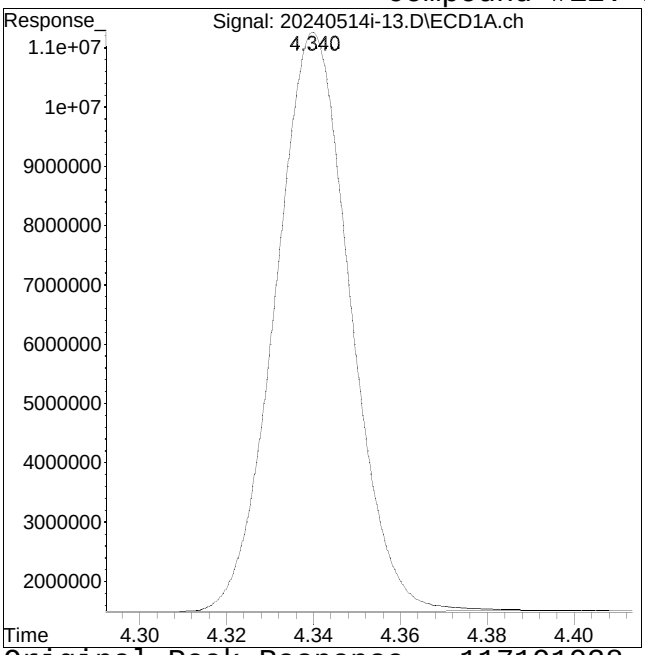
Manual Peak Response = 55119532 M4

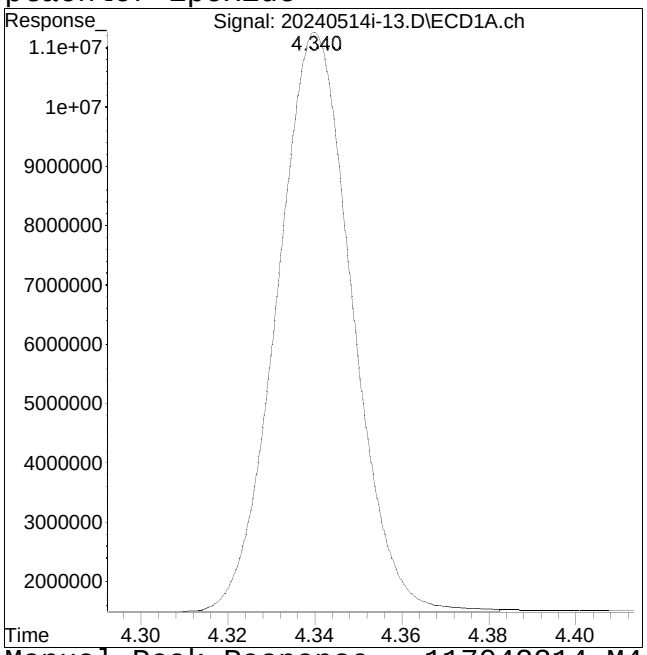
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-13.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:02 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/17/2024 1:45 pm

Compound #12: Heptachlor Epoxide





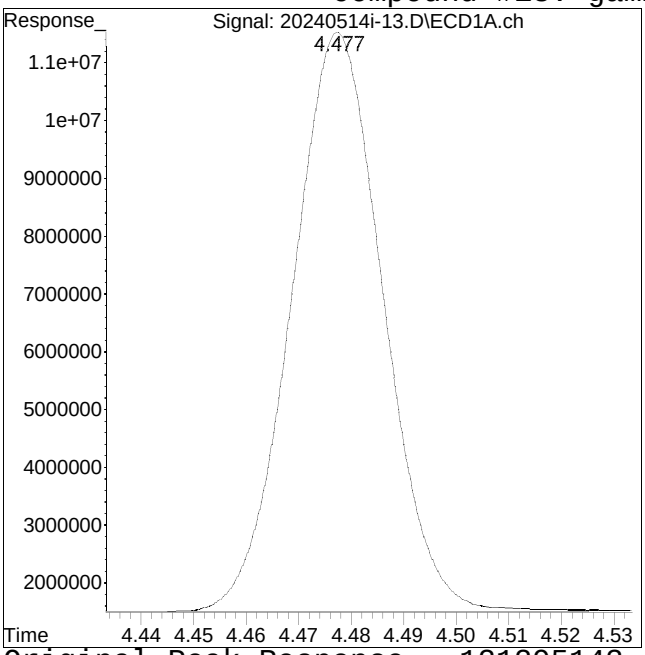
Original Peak Response = 117191938 Manual Peak Response = 117042214 M4
M4 = Poor automated baseline construction.

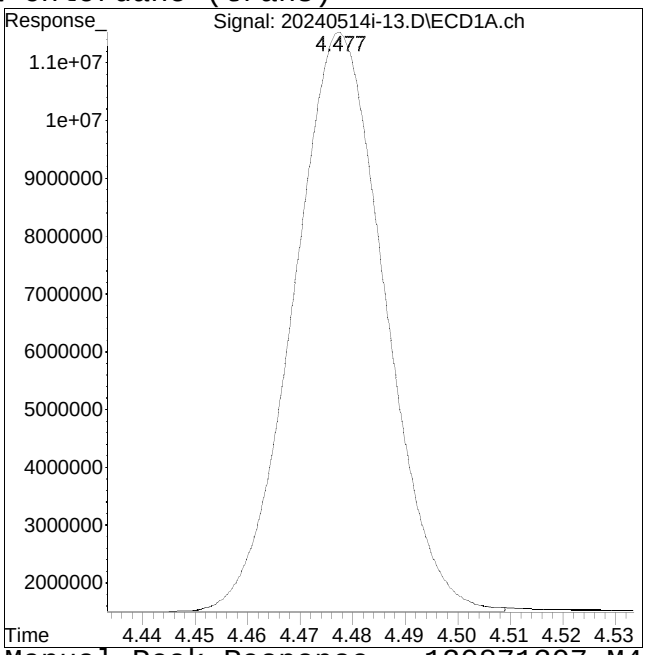
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-13.D
Date Inj'd : 5/14/2024 7:02 pm
Sample : cicvpest,42e,,pp 11536 L0.

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/17/2024 1:45 pm

Compound #13: gamma-Chlordane (trans)



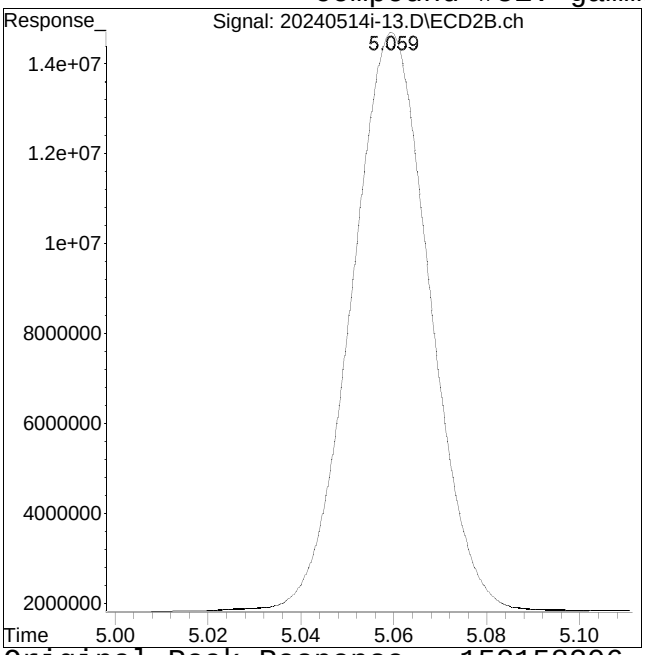


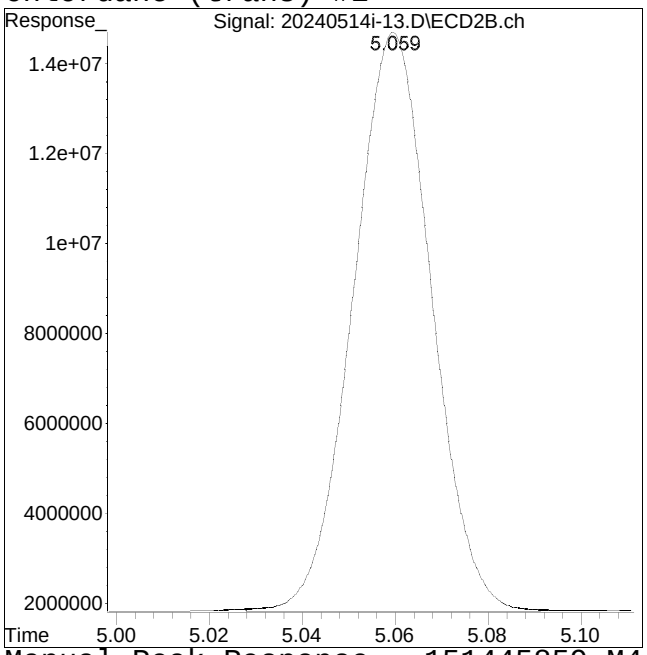
Original Peak Response = 121295143 Manual Peak Response = 120871307 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-13.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:02 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/17/2024 1:45 pm

Compound #51: gamma-Chlordane (trans) #2



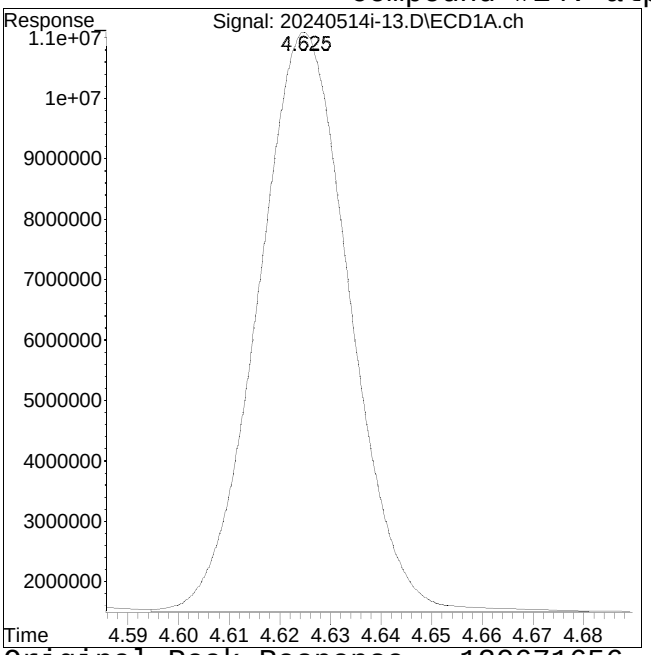


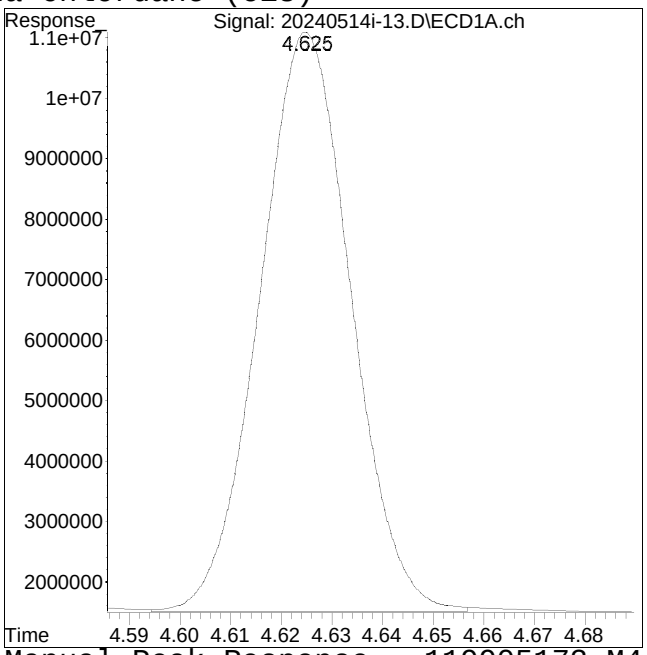
Original Peak Response = 152158306 Manual Peak Response = 151445859 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-13.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:02 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/17/2024 1:45 pm

Compound #14: alpha-Chlordane (cis)



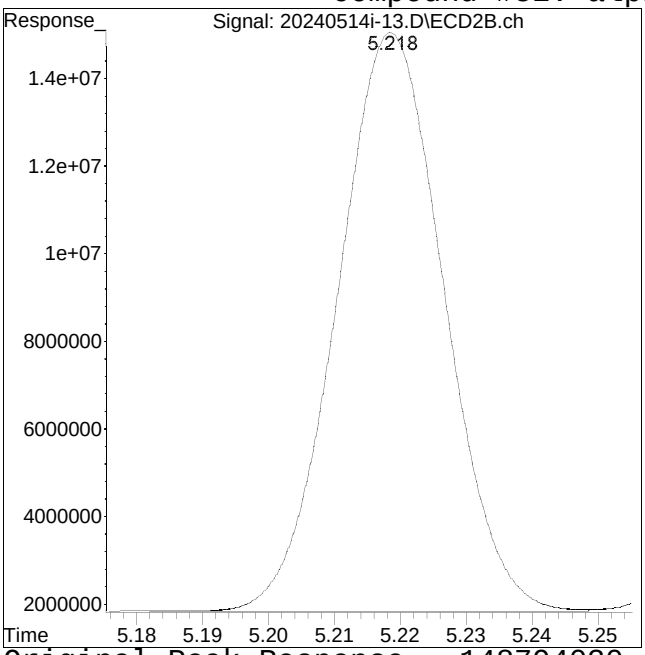


Original Peak Response = 120671656 Manual Peak Response = 119905173 M4
M4 = Poor automated baseline construction.

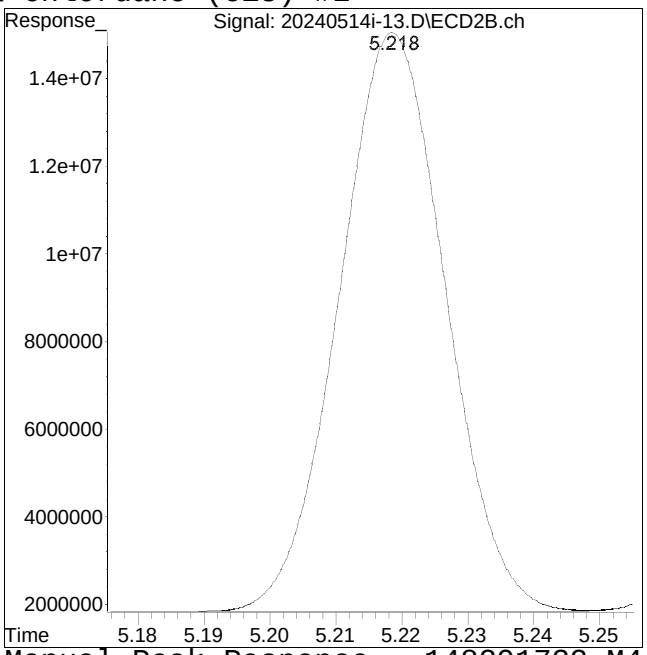
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-13.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:02 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/17/2024 1:45 pm

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 148794030



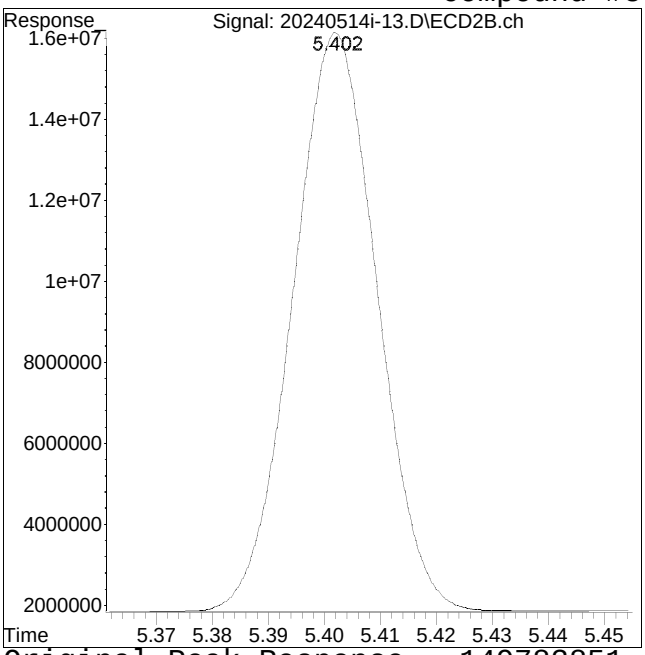
Manual Peak Response = 148291732 M4

M4 = Poor automated baseline construction.

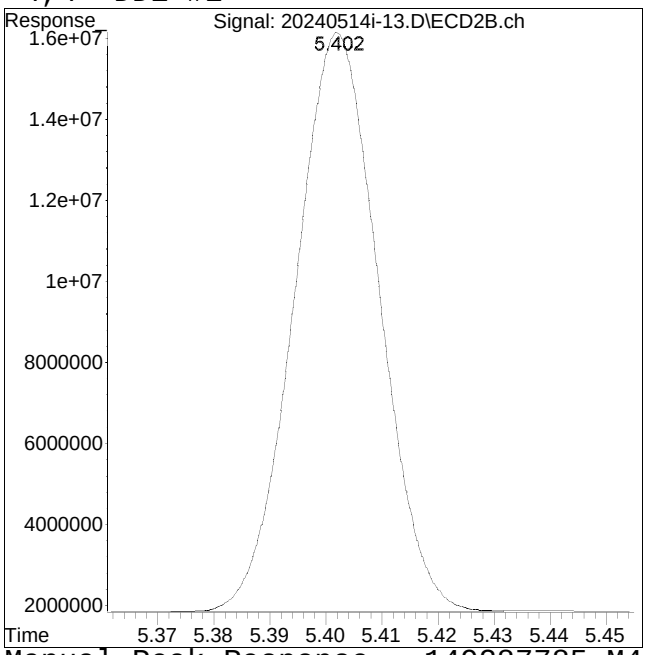
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-13.D
Date Inj'd : 5/14/2024 7:02 pm
Sample : cicvpest,42e,,pp 11536 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/17/2024 1:45 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 149783851



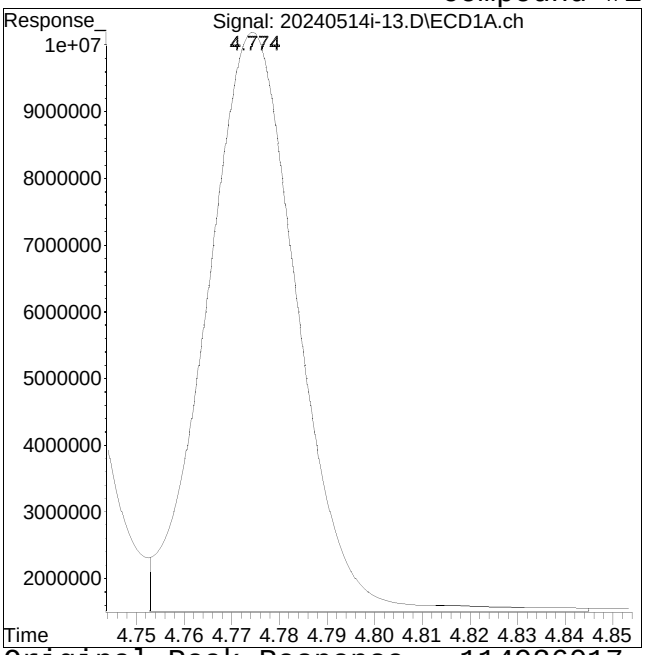
Manual Peak Response = 149287785 M4

M4 = Poor automated baseline construction.

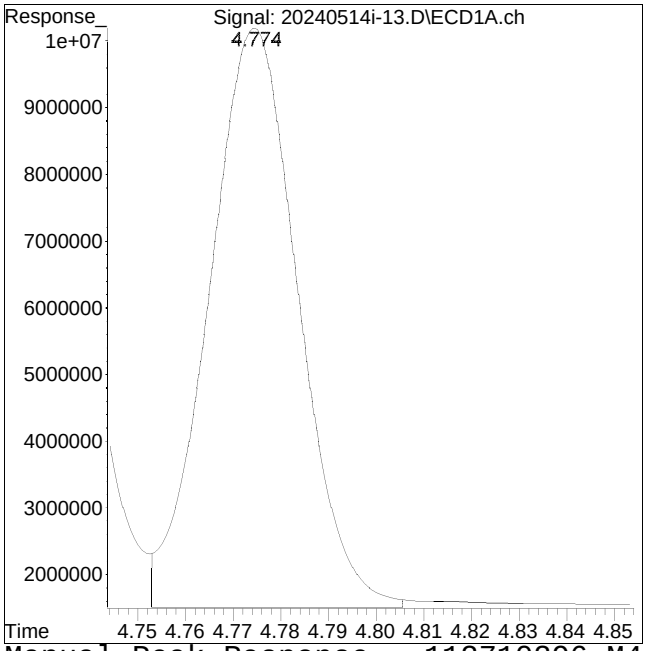
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-13.D
Date Inj'd : 5/14/2024 7:02 pm
Sample : cicvpest,42e,,pp 11536 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/17/2024 1:45 pm

Compound #16: Endosulfan I



Original Peak Response = 114926017



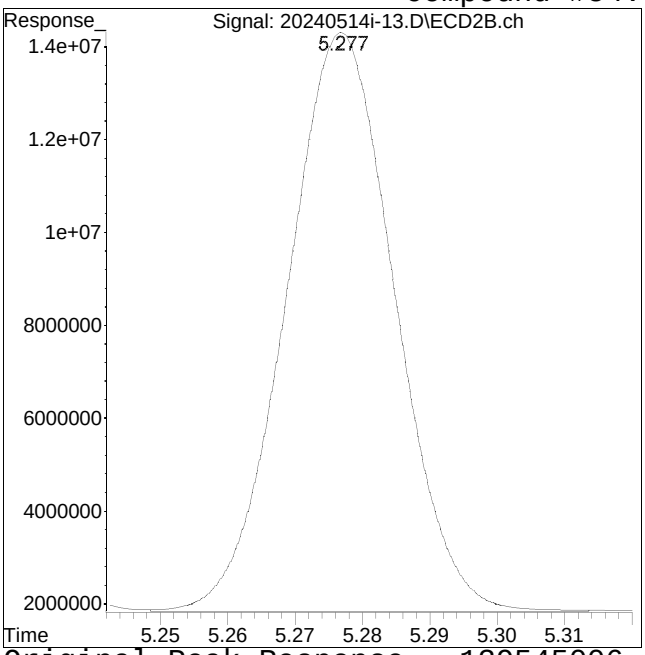
Manual Peak Response = 112710296 M4

M4 = Poor automated baseline construction.

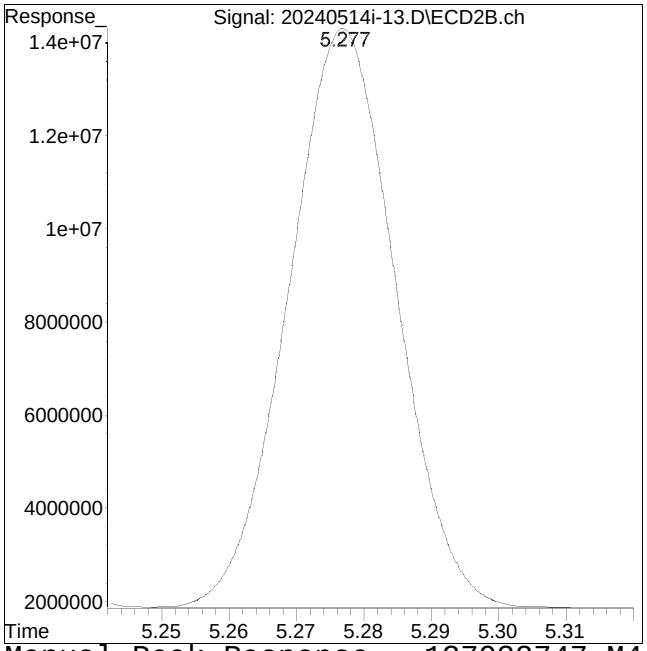
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-13.D
Date Inj'd : 5/14/2024 7:02 pm
Sample : cicvpest,42e,,pp 11536 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/17/2024 1:45 pm

Compound #54: Endosulfan I #2



Original Peak Response = 139545006



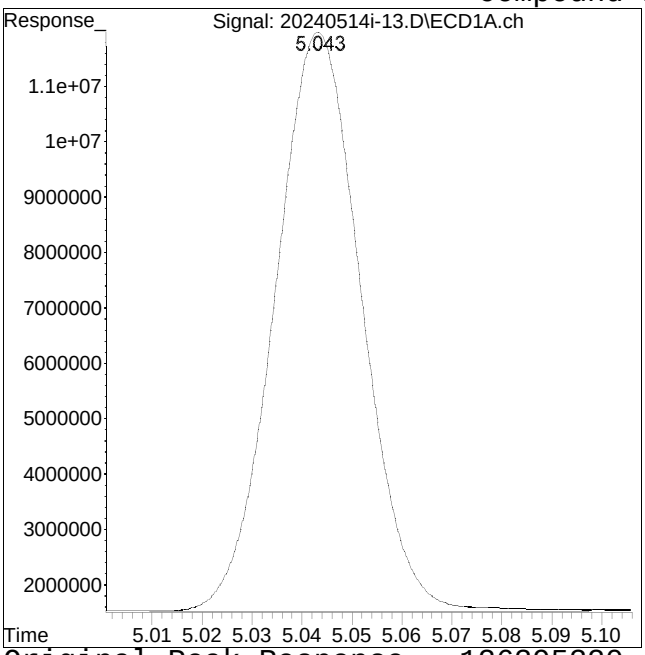
Manual Peak Response = 137932747 M4

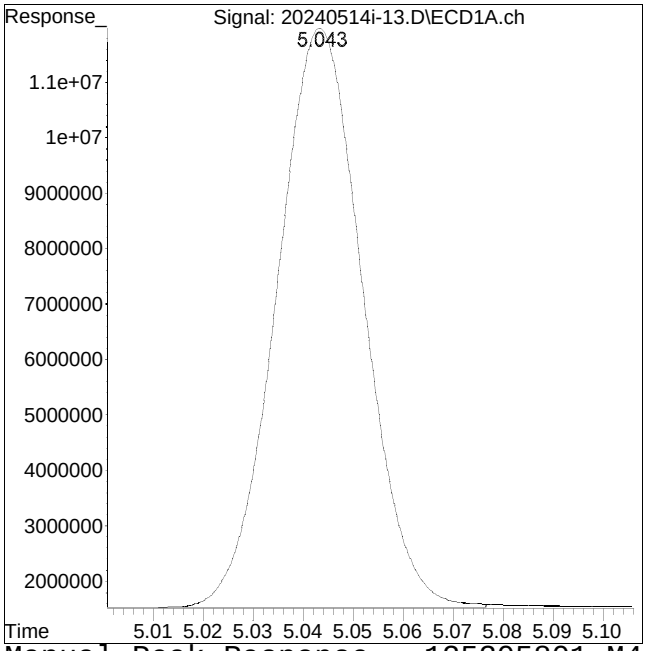
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-13.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:02 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/17/2024 1:45 pm

Compound #17: Dieldrin



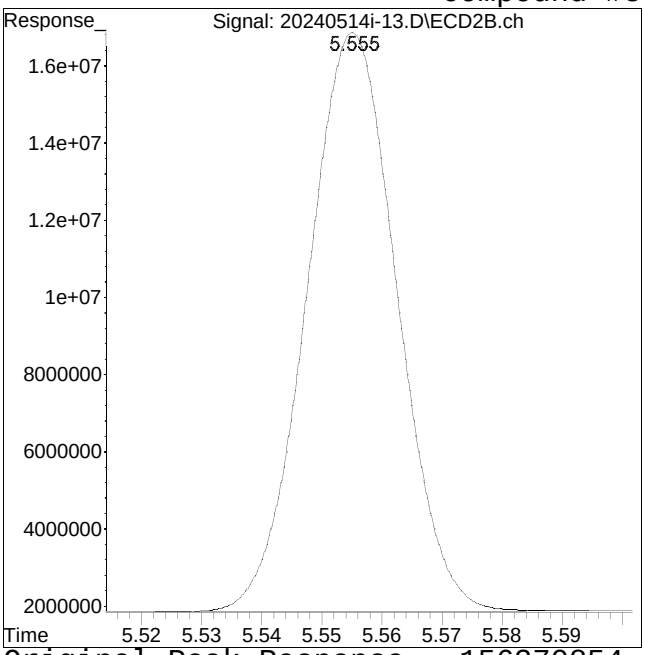


Original Peak Response = 126395320 Manual Peak Response = 125305801 M4
M4 = Poor automated baseline construction.

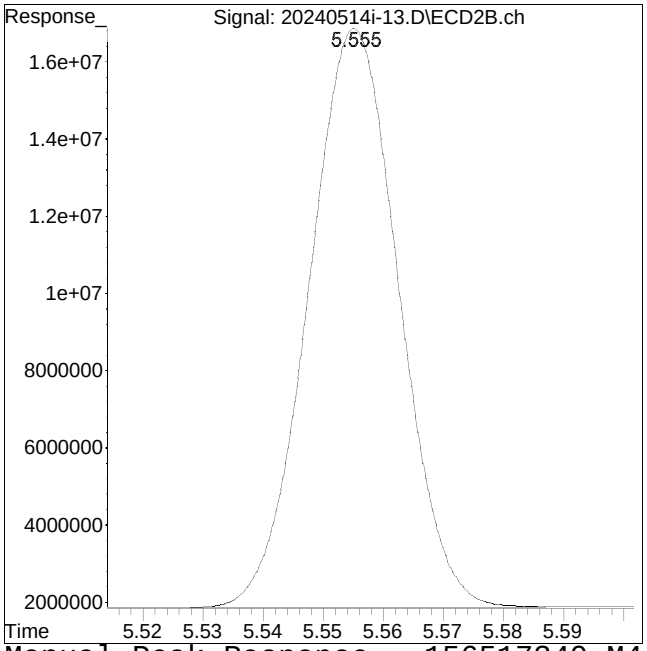
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-13.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:02 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/17/2024 1:45 pm

Compound #55: Dieldrin #2



Original Peak Response = 156370854



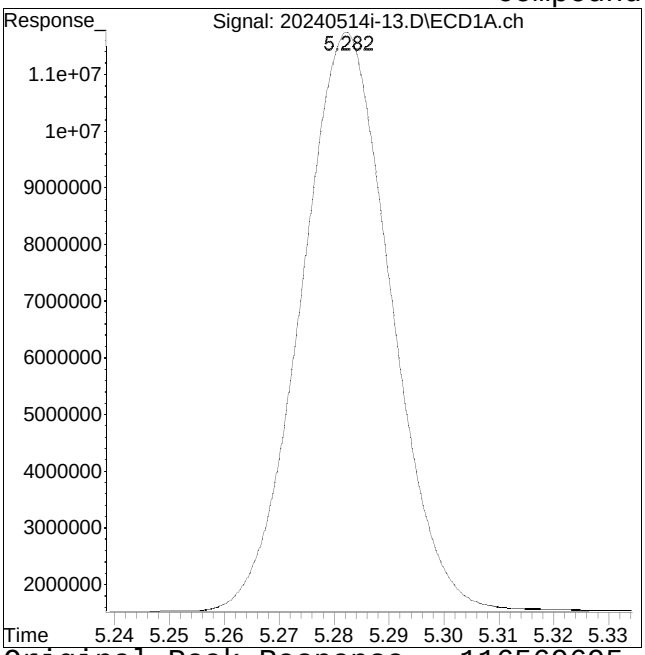
Manual Peak Response = 156517340 M4

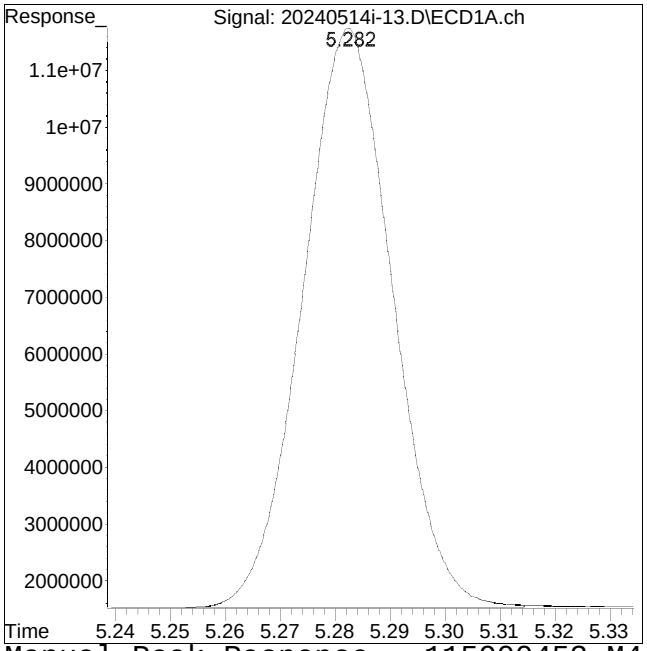
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-13.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:02 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/17/2024 1:45 pm

Compound #18: Endrin



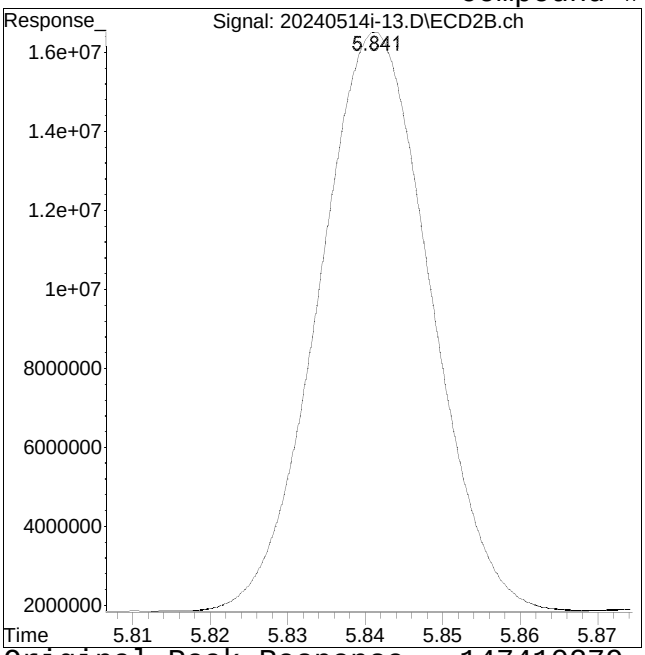


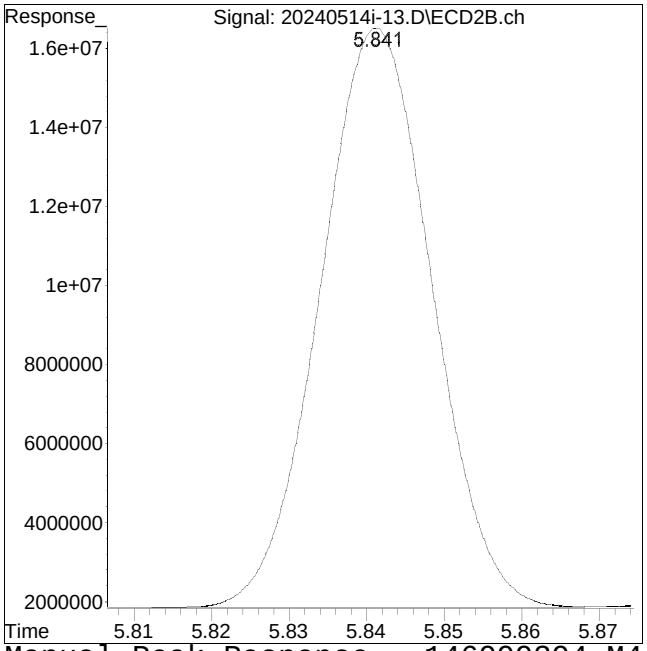
Original Peak Response = 116569695 Manual Peak Response = 115900453 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-13.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:02 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/17/2024 1:45 pm

Compound #56: Endrin #2





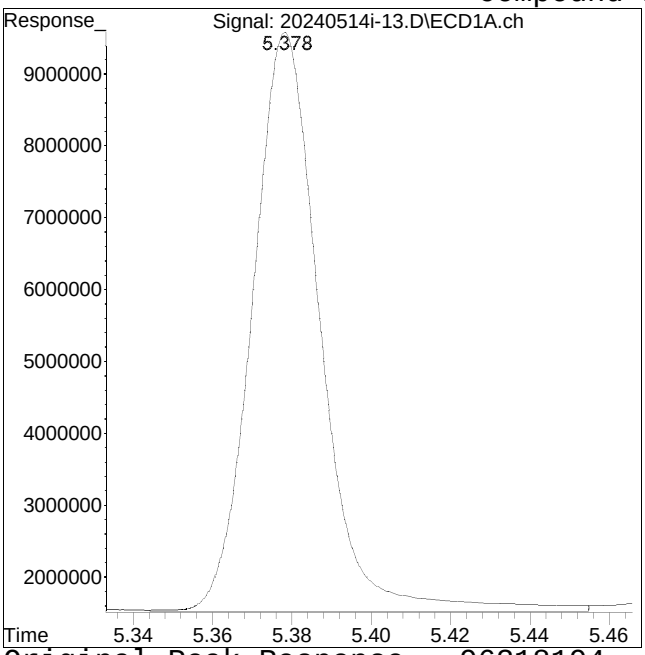
Original Peak Response = 147410279 Manual Peak Response = 146999394 M4
M4 = Poor automated baseline construction.

Manual Integration Report

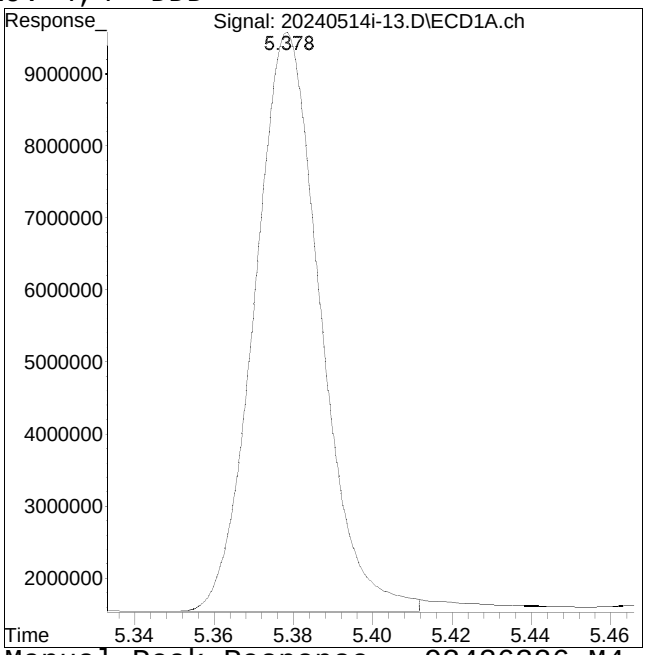
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-13.D
Date Inj'd : 5/14/2024 7:02 pm
Sample : cicvpest,42e,,pp 11536 L0.

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/17/2024 1:45 pm

Compound #19: 4,4'-DDD



Original Peak Response = 96318194



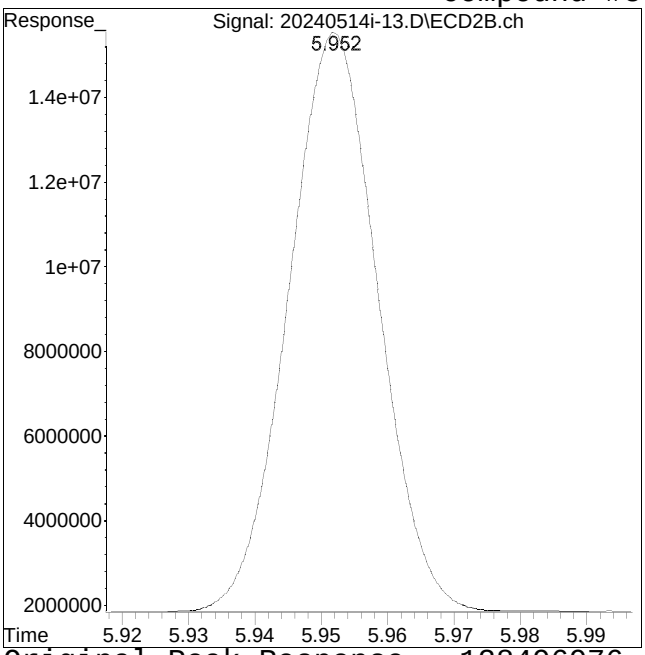
Manual Peak Response = 92436326 M4

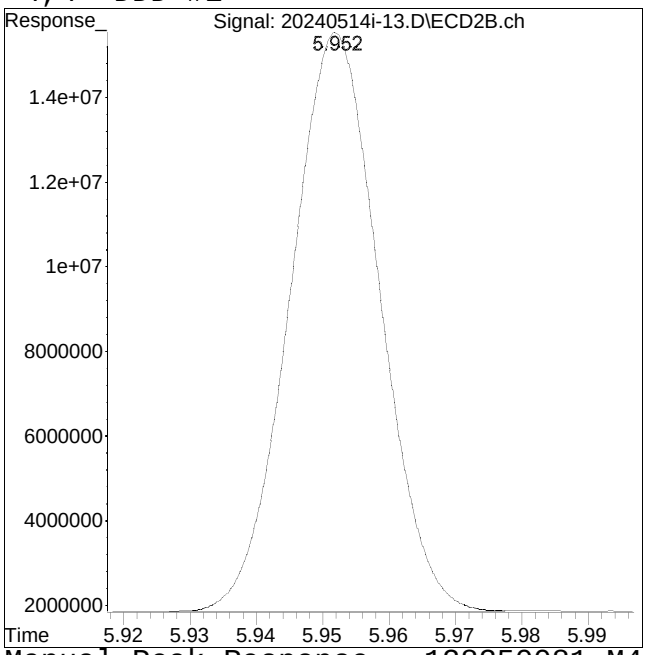
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-13.D
Date Inj'd : 5/14/2024 7:02 pm
Sample : cicvpest,42e,,pp 11536 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/17/2024 1:45 pm

Compound #57: 4,4'-DDD #2



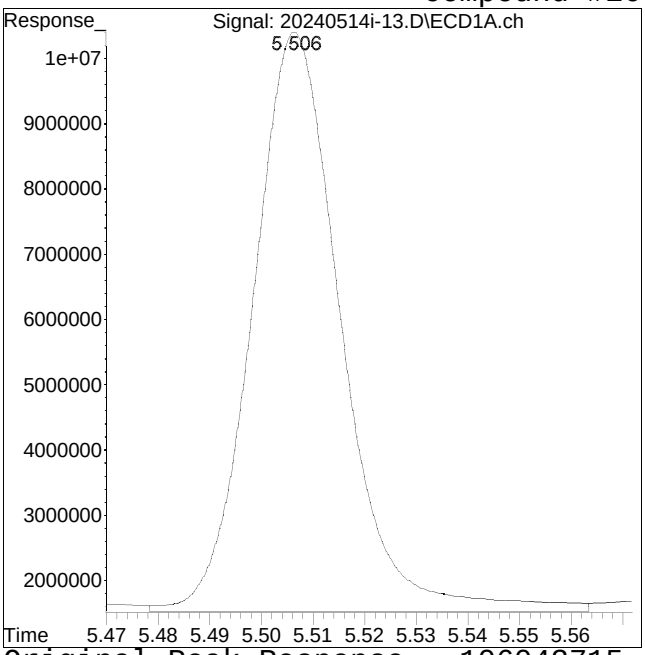


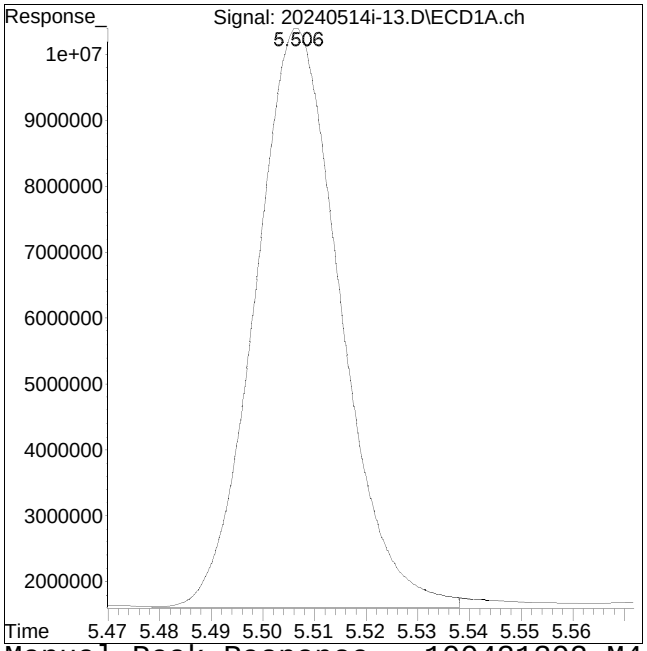
Original Peak Response = 128496976 Manual Peak Response = 128350081 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-13.D
Date Inj'd : 5/14/2024 7:02 pm
Sample : cicvpest,42e,,pp 11536 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/17/2024 1:45 pm

Compound #20: Endosulfan II



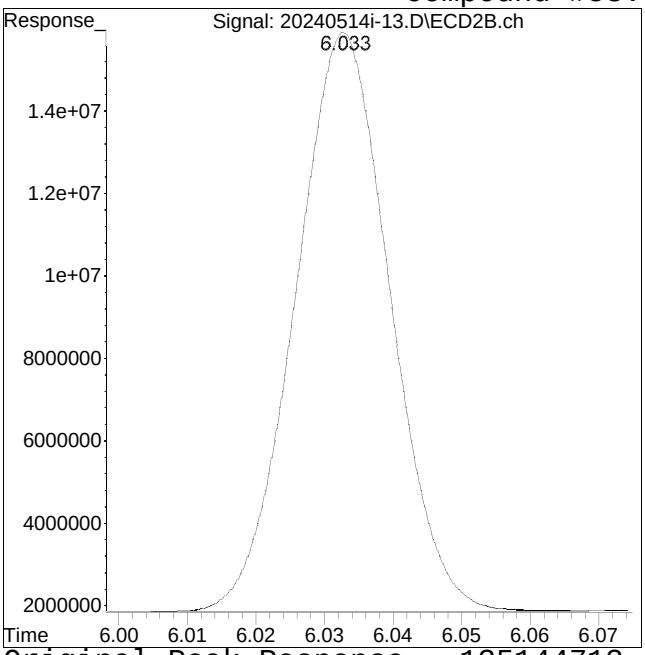


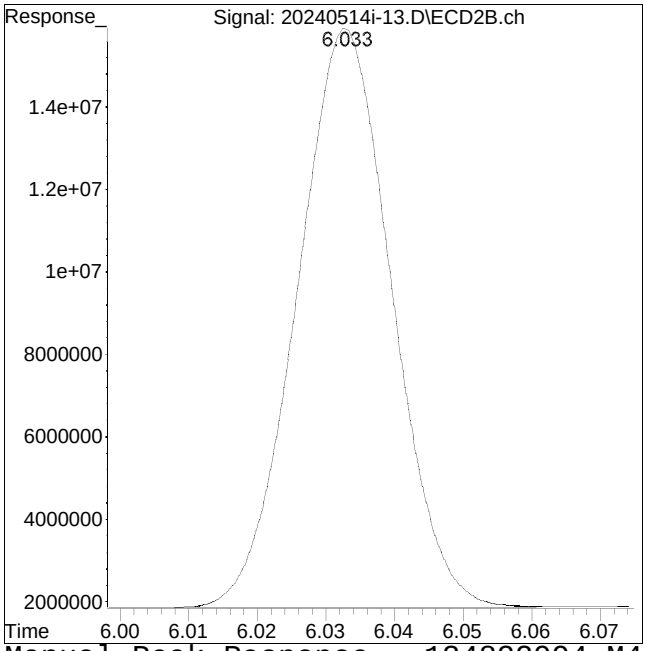
Original Peak Response = 106043715 Manual Peak Response = 100431392 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-13.D
Date Inj'd : 5/14/2024 7:02 pm
Sample : cicvpest,42e,,pp 11536 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/17/2024 1:45 pm

Compound #58: Endosulfan II #2



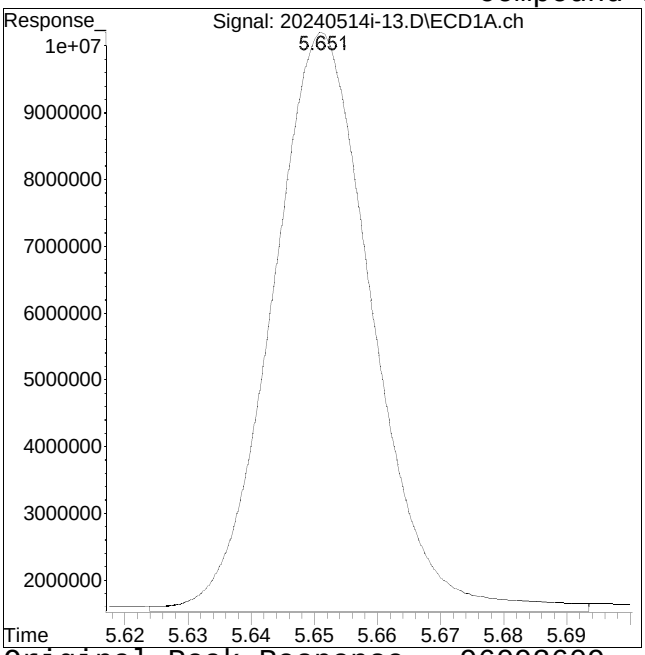


Original Peak Response = 135144713 Manual Peak Response = 134822994 M4
M4 = Poor automated baseline construction.

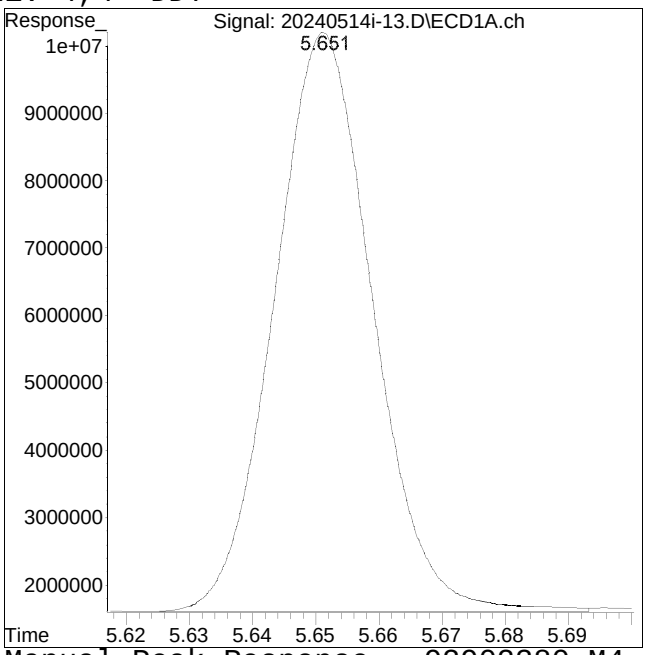
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-13.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:02 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/17/2024 1:45 pm

Compound #21: 4,4'-DDT



Original Peak Response = 96093609



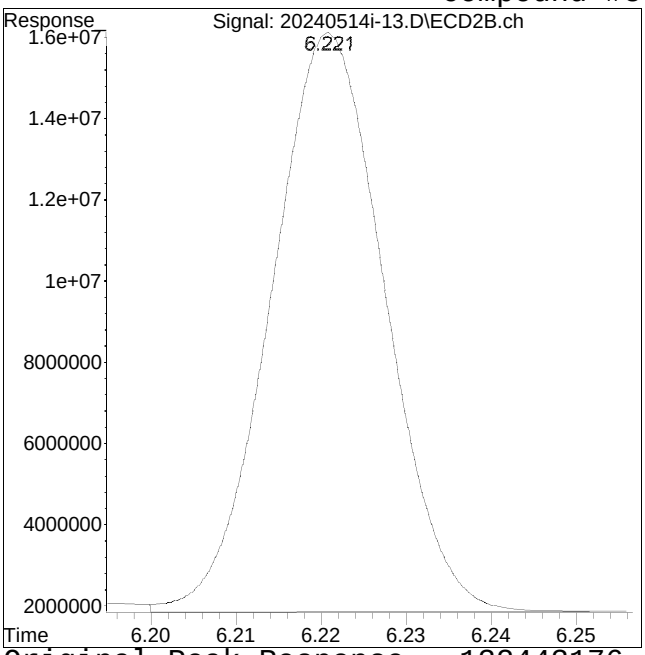
Manual Peak Response = 92902380 M4

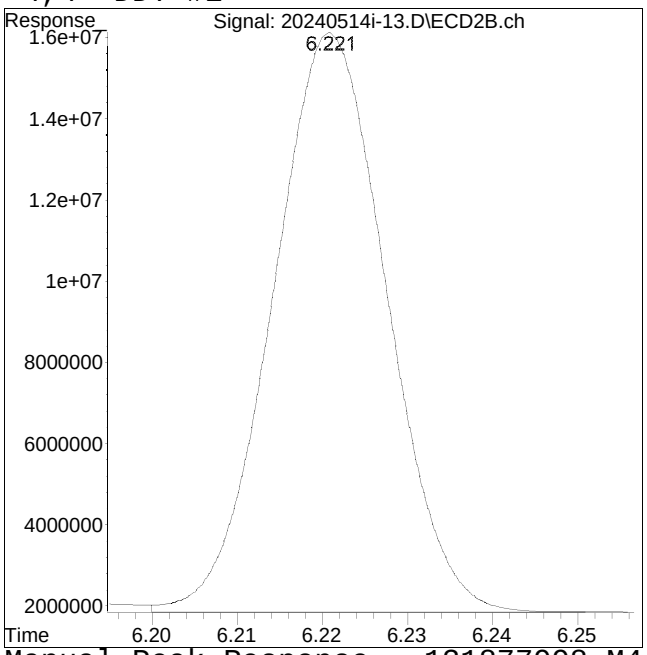
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-13.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:02 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/17/2024 1:45 pm

Compound #59: 4,4'-DDT #2



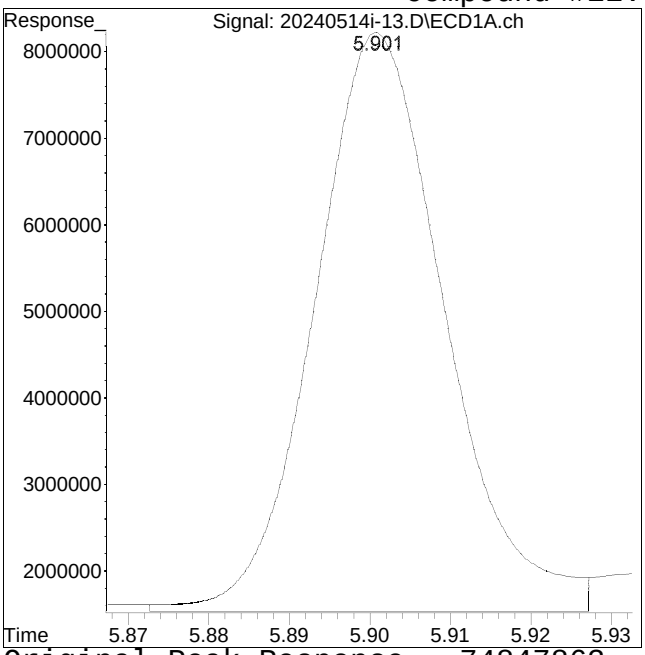


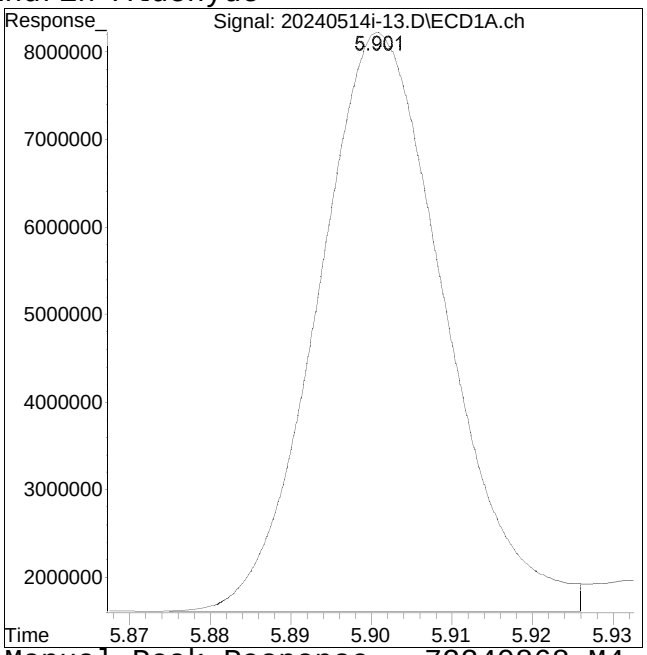
Original Peak Response = 132443176 Manual Peak Response = 131877998 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-13.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:02 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/17/2024 1:45 pm

Compound #22: Endrin Aldehyde



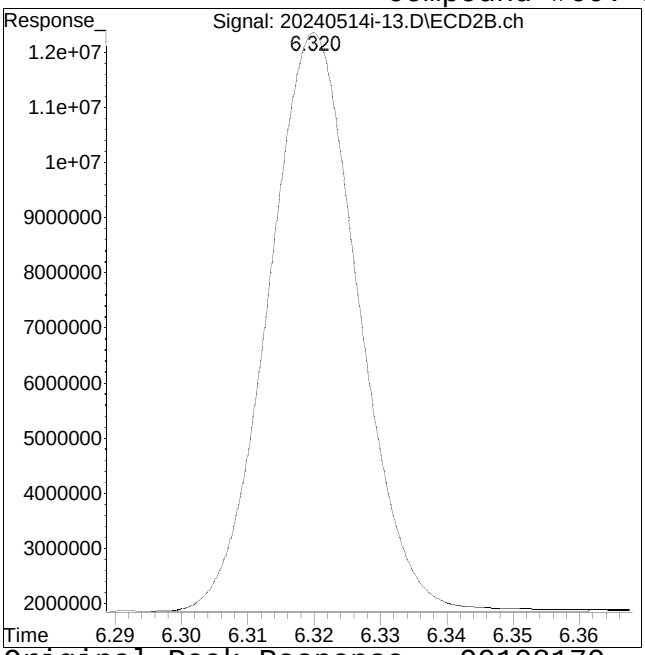


Original Peak Response = 74847863 Manual Peak Response = 72240868 M4
M4 = Poor automated baseline construction.

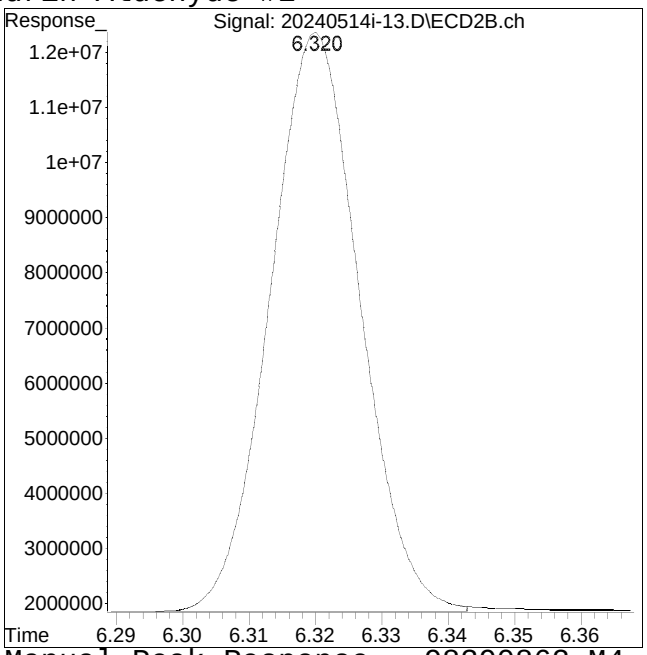
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-13.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:02 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/17/2024 1:45 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 99108170



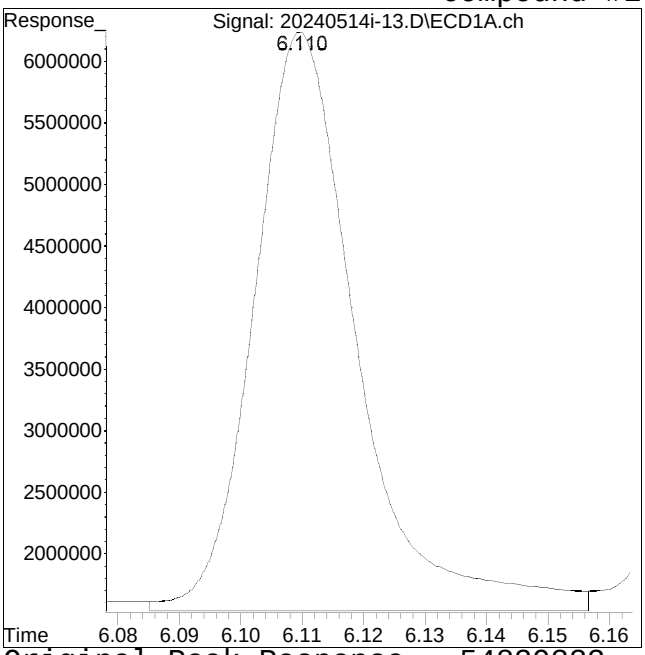
Manual Peak Response = 98390862 M4

M4 = Poor automated baseline construction.

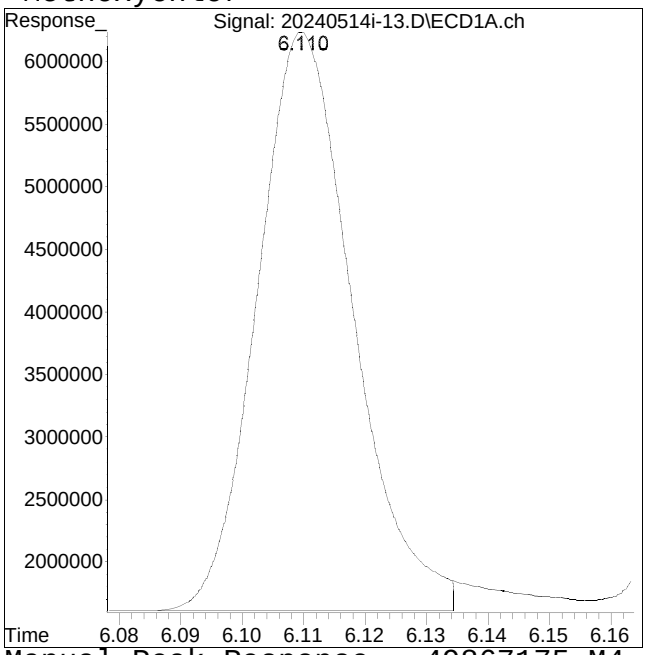
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-13.D
Date Inj'd : 5/14/2024 7:02 pm
Sample : cicvpest,42e,,pp 11536 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/17/2024 1:45 pm

Compound #23: Methoxychlor



Original Peak Response = 54839333



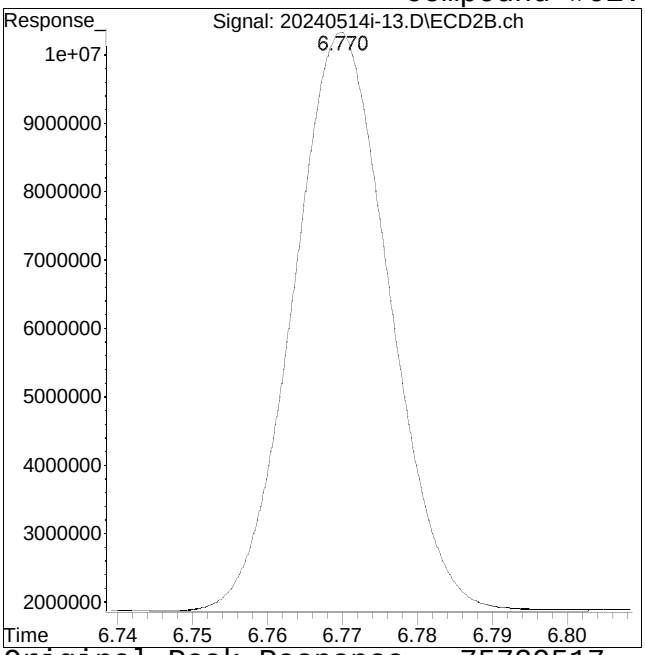
Manual Peak Response = 49867175 M4

M4 = Poor automated baseline construction.

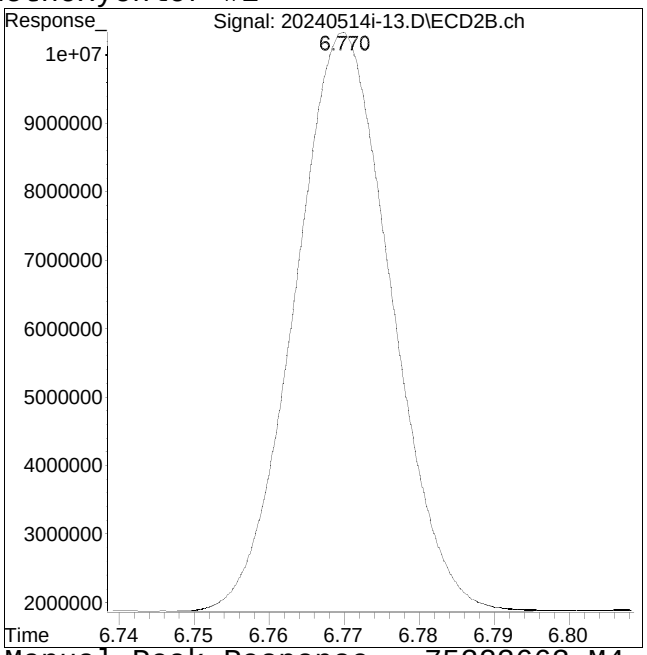
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-13.D
Date Inj'd : 5/14/2024 7:02 pm
Sample : cicvpest,42e,,pp 11536 L0.
Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/17/2024 1:45 pm

Compound #61: Methoxychlor #2



Original Peak Response = 75729517



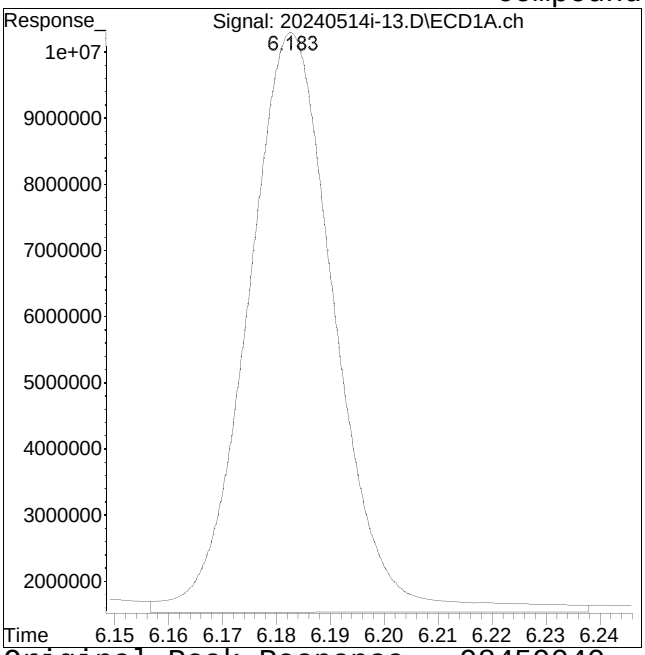
Manual Peak Response = 75223663 M4

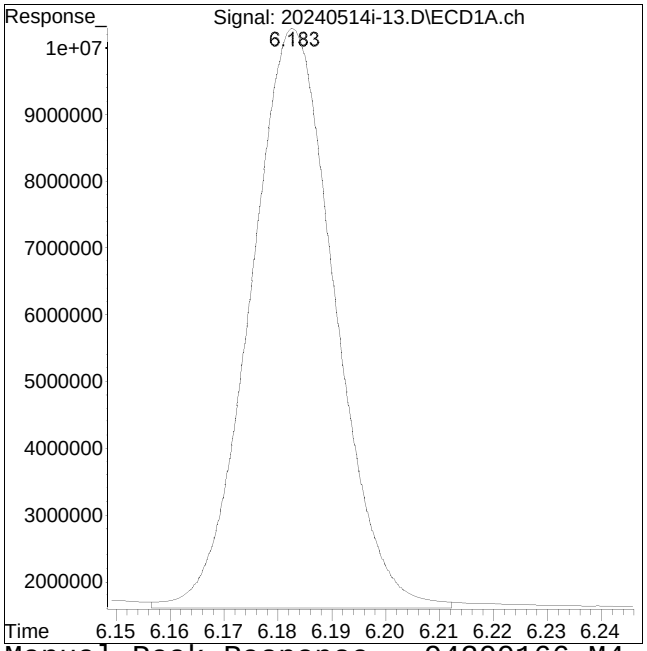
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-13.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:02 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/17/2024 1:45 pm

Compound #24: Mirex



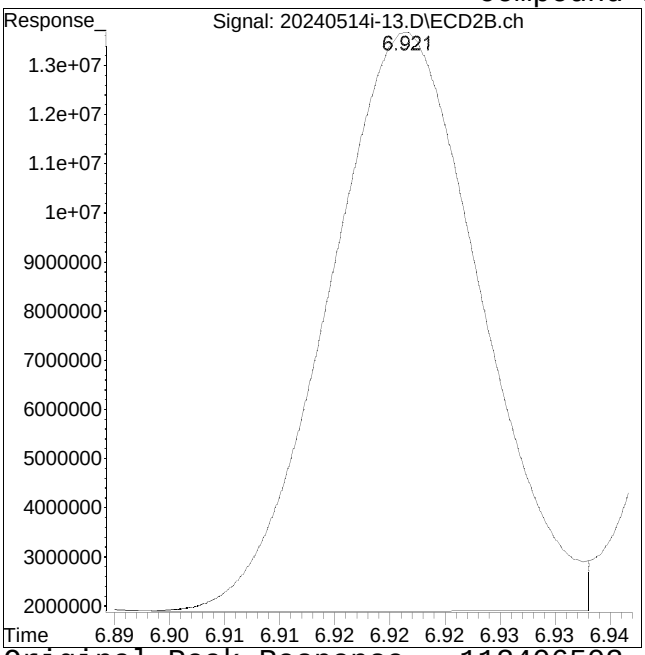


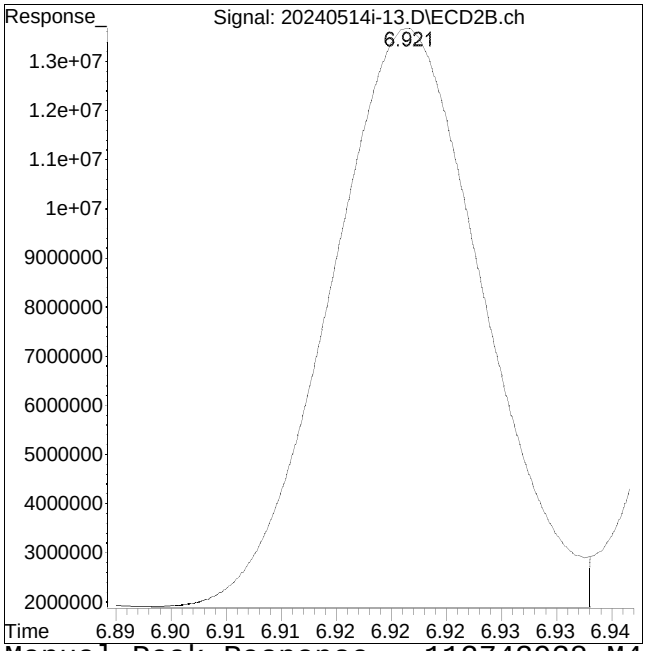
Original Peak Response = 98459040 Manual Peak Response = 94200166 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-13.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:02 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/17/2024 1:45 pm

Compound #62: Mirex #2



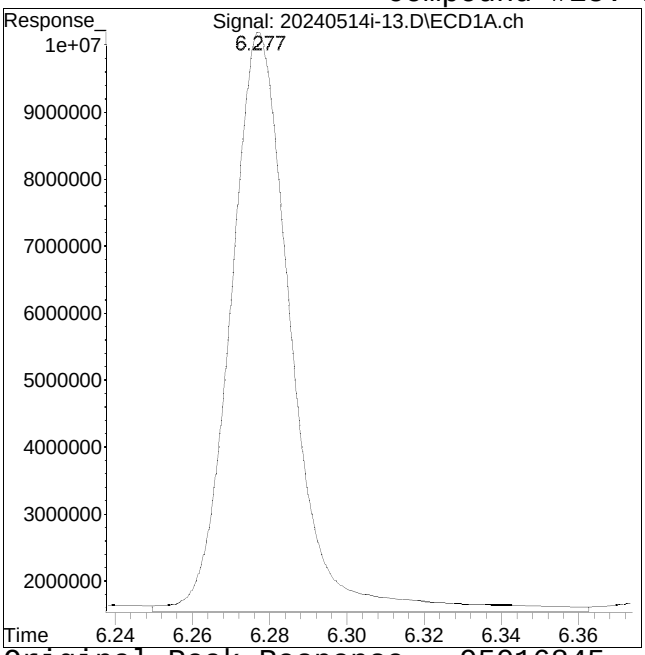


Original Peak Response = 112406503 Manual Peak Response = 112743938 M4
M4 = Poor automated baseline construction.

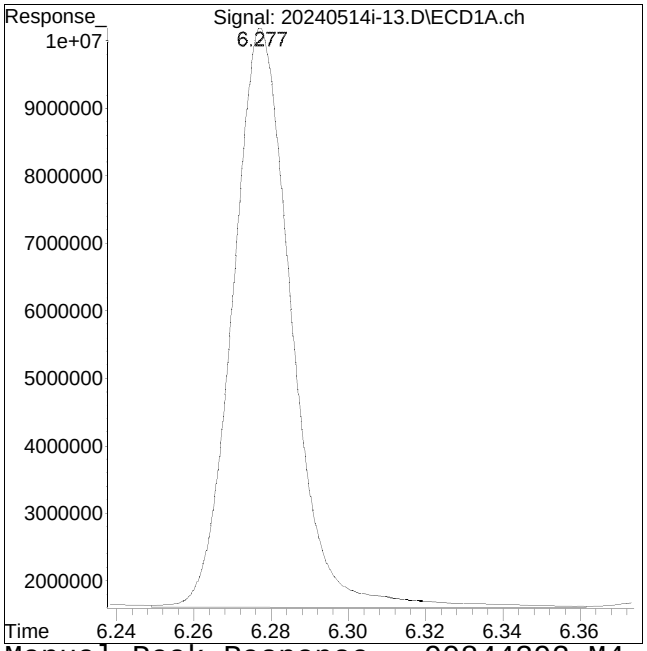
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-13.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:02 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/17/2024 1:45 pm

Compound #25: Endosulfan Sulfate



Original Peak Response = 95016845



Manual Peak Response = 90844392 M4

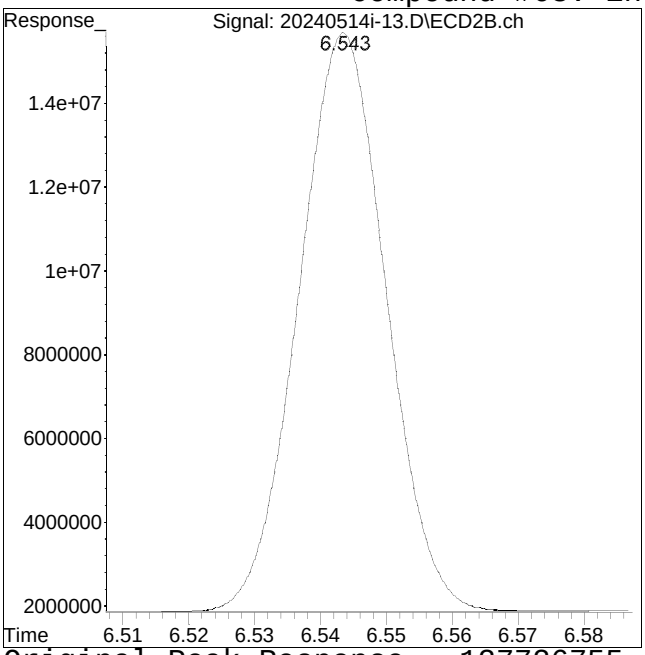
M4 = Poor automated baseline construction.

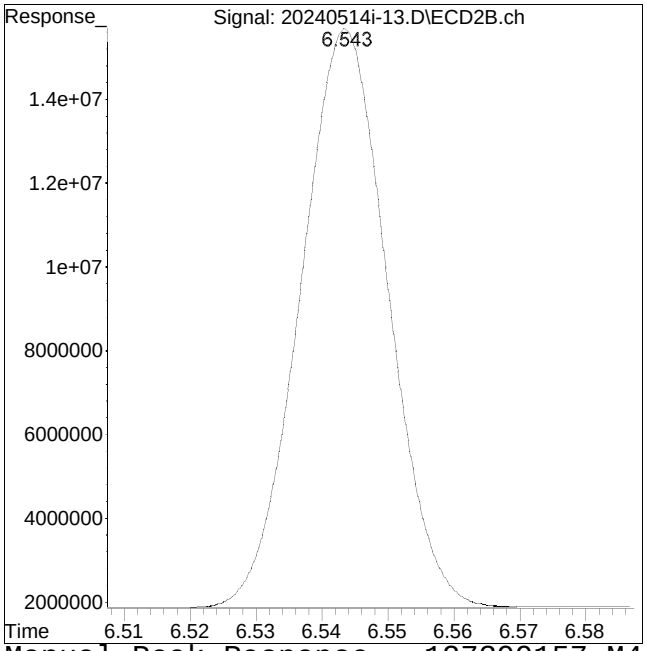
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-13.D
Date Inj'd : 5/14/2024 7:02 pm
Sample : cicvpest,42e,,pp 11536 L0.

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/17/2024 1:45 pm

Compound #63: Endosulfan Sulfate #2



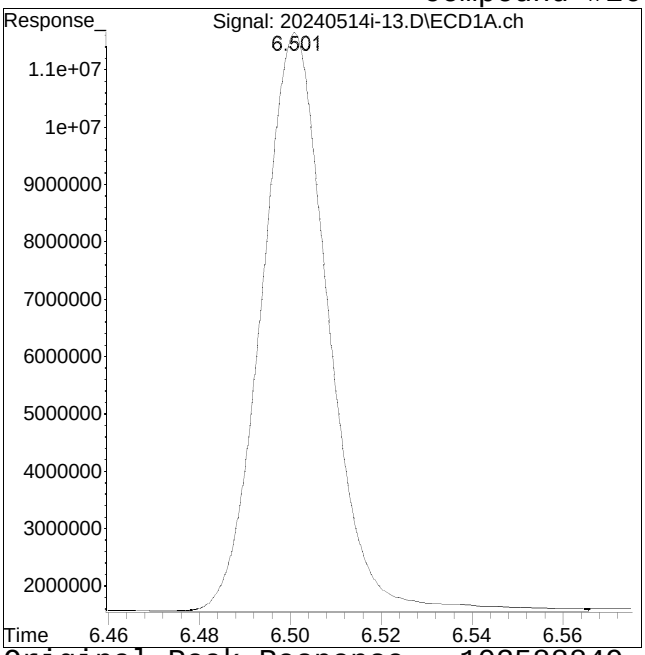


Original Peak Response = 127726755 Manual Peak Response = 127399157 M4
M4 = Poor automated baseline construction.

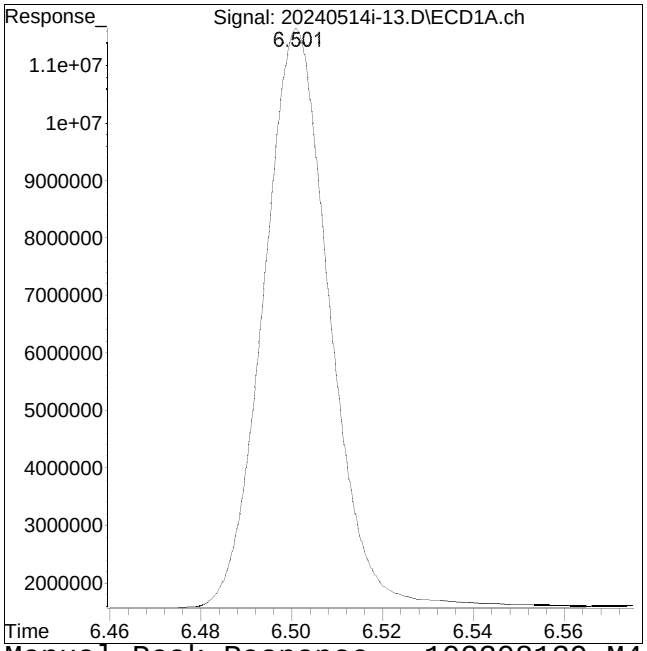
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-13.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:02 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/17/2024 1:45 pm

Compound #26: Endrin Ketone



Original Peak Response = 103588849



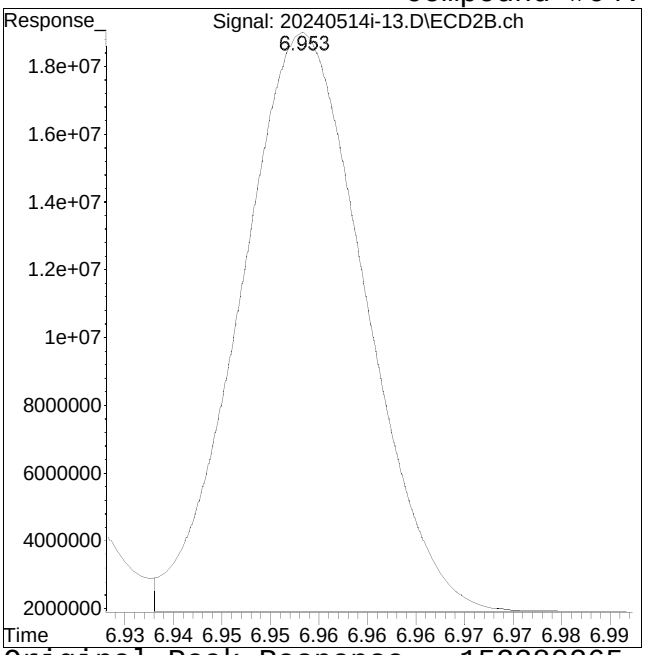
Manual Peak Response = 102308139 M4

M4 = Poor automated baseline construction.

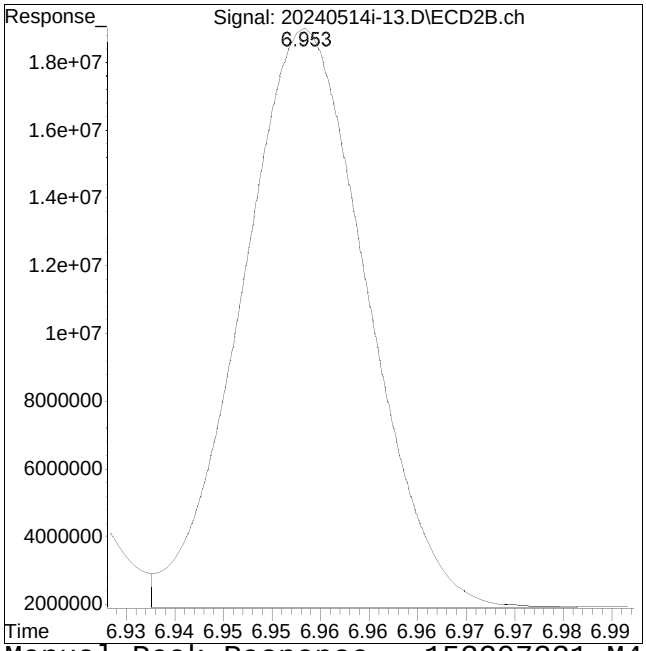
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-13.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:02 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/17/2024 1:45 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 152380265



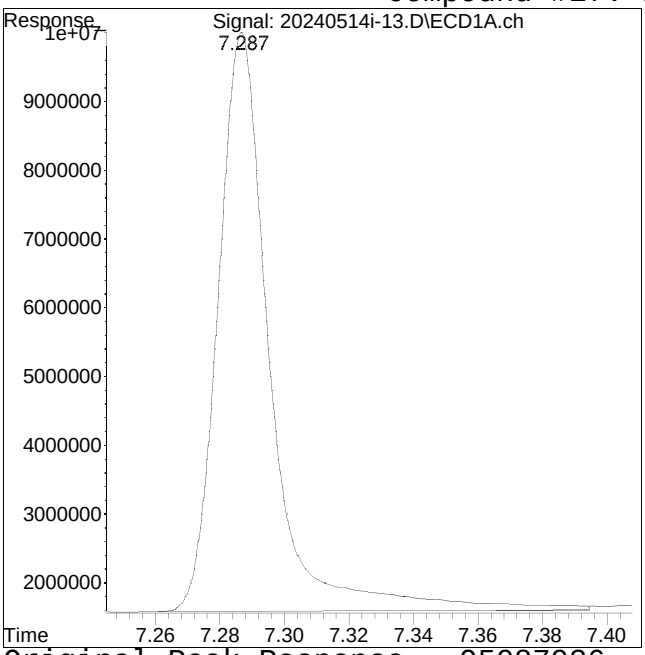
Manual Peak Response = 153307231 M4

M4 = Poor automated baseline construction.

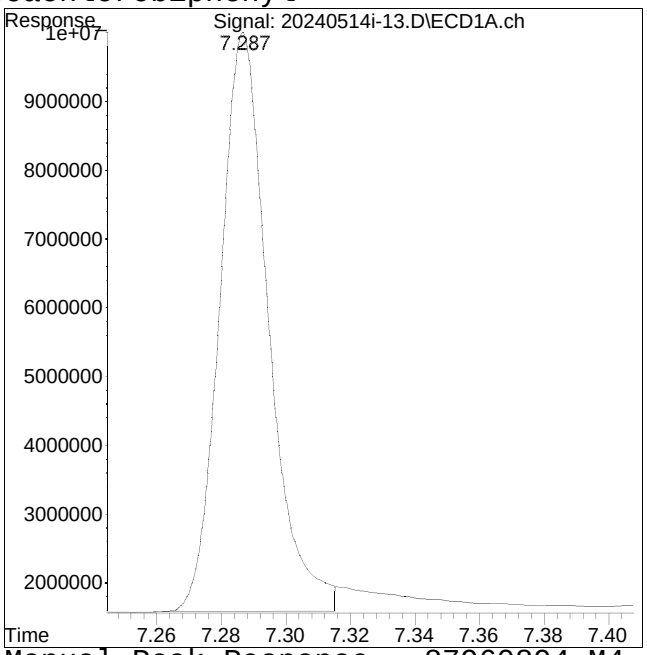
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-13.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:02 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/17/2024 1:45 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 95087936



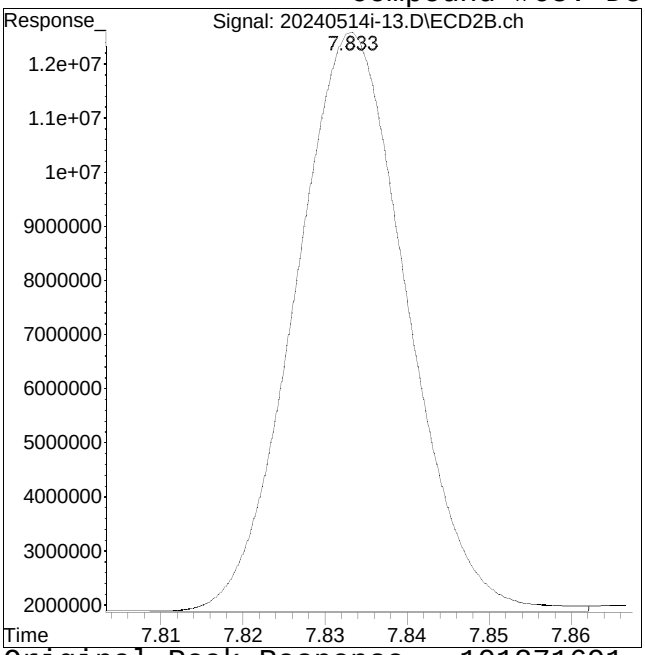
Manual Peak Response = 87960894 M4

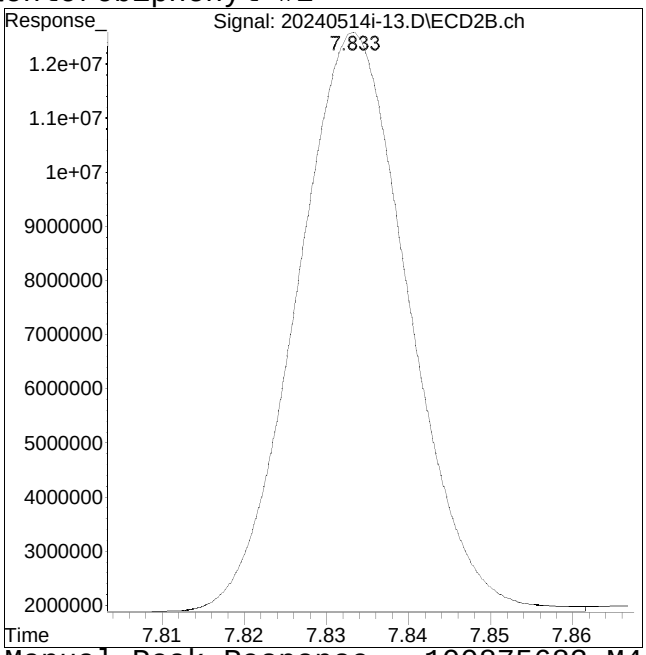
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-13.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:02 pm Instrument : PEST 20
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/17/2024 1:45 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 101271691 Manual Peak Response = 100875683 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-14.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 07:14 pm
Operator : pest20:peg
Sample : il3chlor,42e,,pp 11509 L0.01
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:16:17 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:16:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.933	1.972	52410438	70109647	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-14.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 07:14 pm
Operator : pest20:peg
Sample : il3chlor,42e,,pp 11509 L0.01
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:16:17 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:16:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.378	3.683	1094076	1299108	12.670	12.952
30)	l1	chlordane-3	3.856	4.345	1542463	1715823	13.818	13.691M3
31)	l1	chlordane-4	4.477	5.059	4724649	5040695	13.079	12.873
32)	l1	chlordane-5	4.619	5.219	7353387	3978950	13.235M3	12.800
		Sum chlordane-1			14714575	12034575	NoCal	NoCal D
		Average chlordane-1					13.201	13.079
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

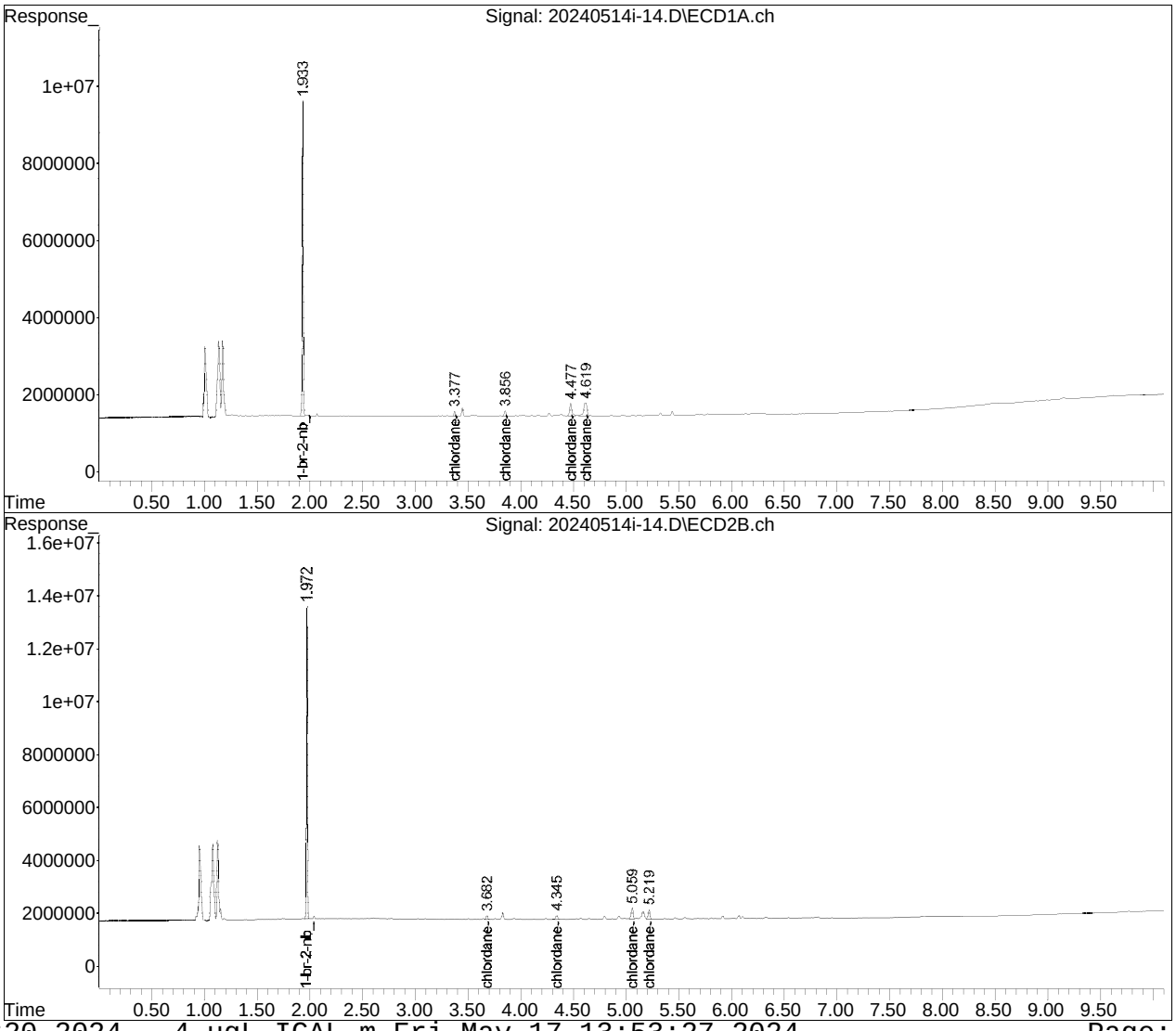
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-14.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 07:14 pm
Operator : pest20:peg
Sample : il3chlor,42e,,pp 11509 L0.01
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:16:17 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:16:06 2024
Response via : Initial Calibration
Integrator: ChemStation

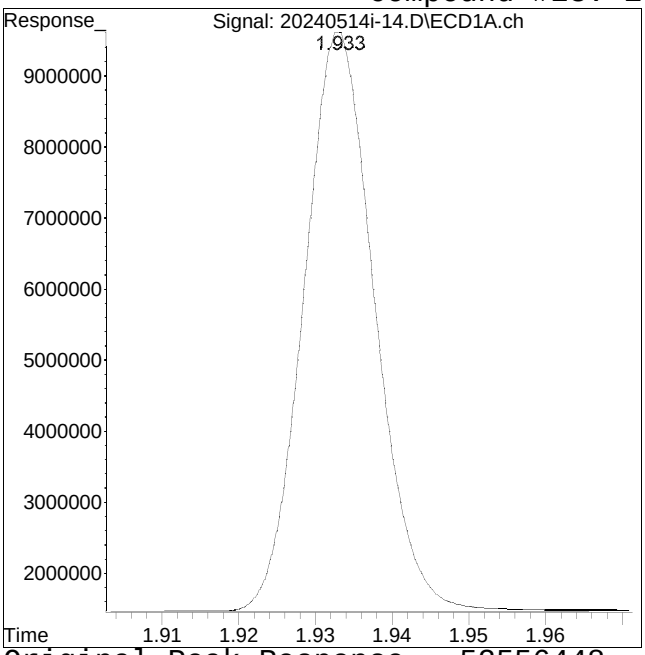
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



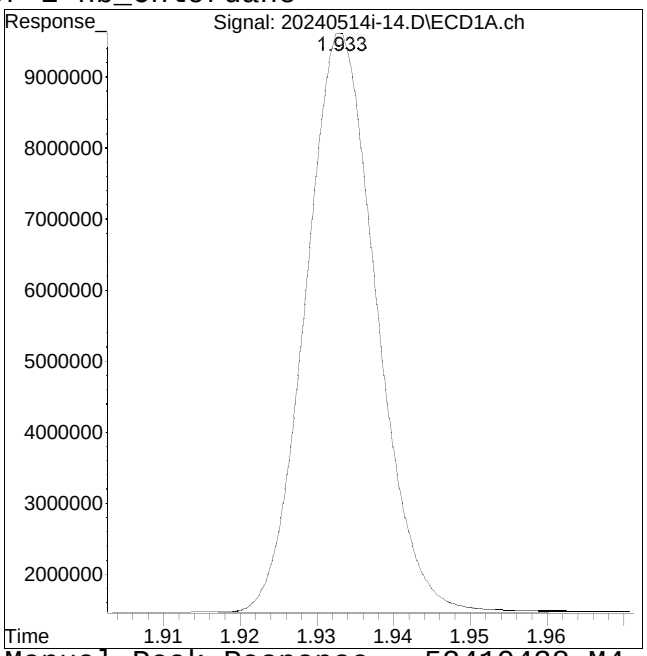
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-14.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:14 pm Instrument : PEST 20
Sample : il3chlor,42e,,pp 11509 L0.Quant Date : 5/17/2024 9:16 am

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 52556448



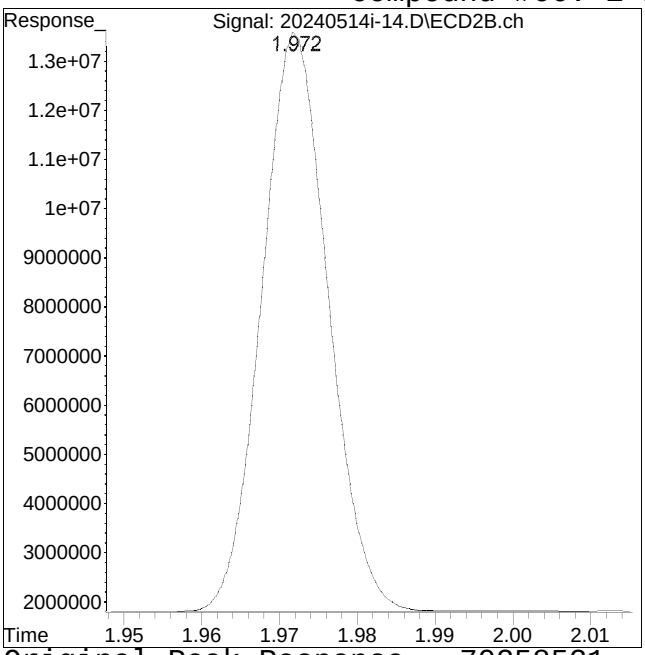
Manual Peak Response = 52410438 M4

M4 = Poor automated baseline construction.

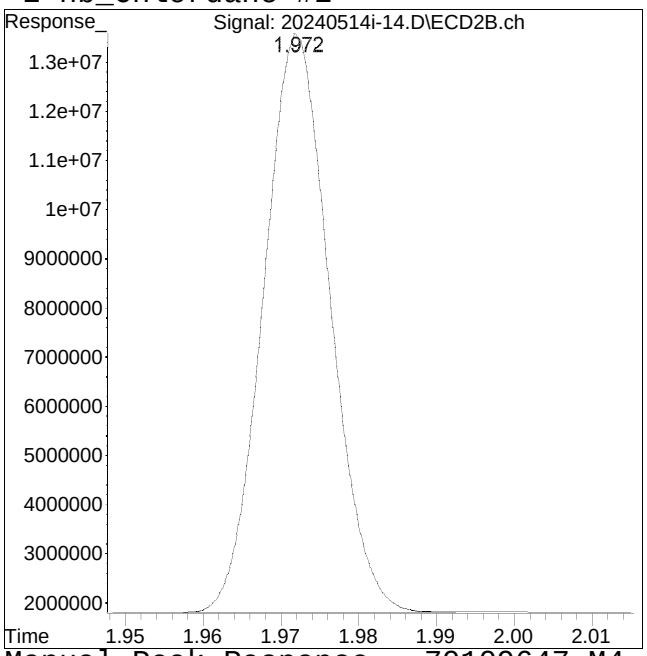
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-14.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:14 pm Instrument : PEST 20
Sample : il3chlor,42e,,pp 11509 L0.Quant Date : 5/17/2024 9:16 am

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 70258521



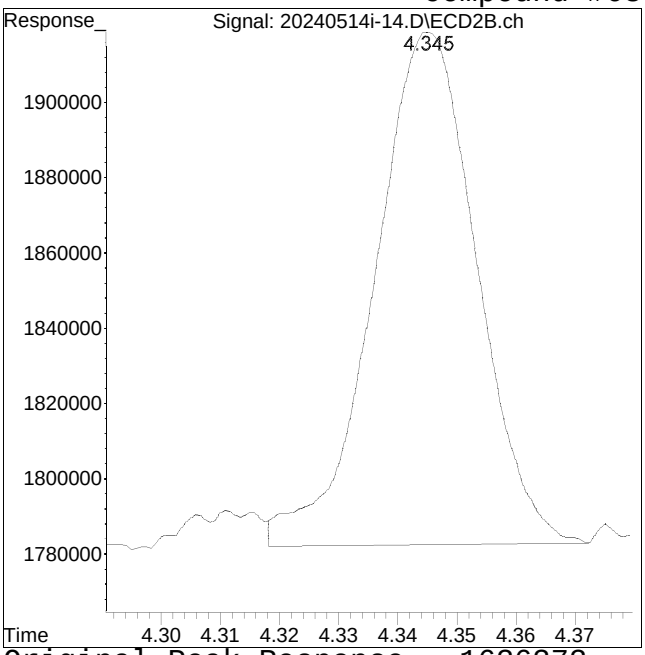
Manual Peak Response = 70109647 M4

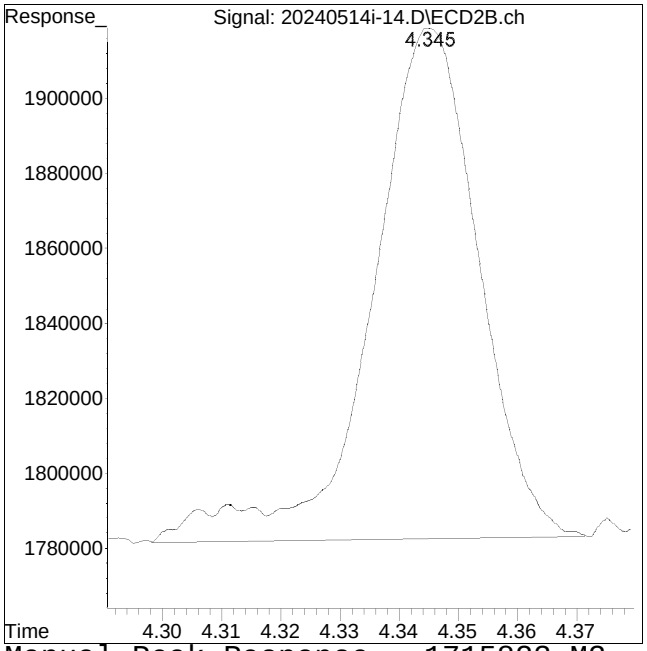
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-14.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:14 pm Instrument : PEST 20
Sample : il3chlor,42e,,pp 11509 L0.Quant Date : 5/17/2024 9:16 am

Compound #68: chlordane-3 #2



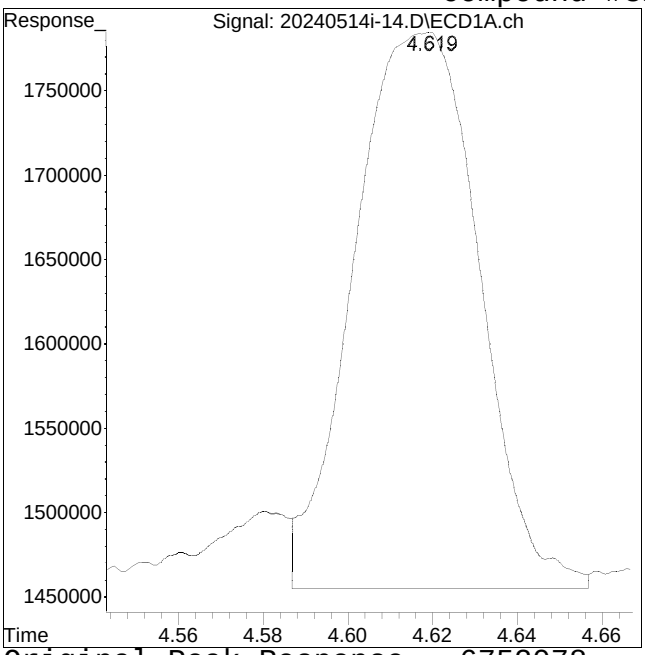


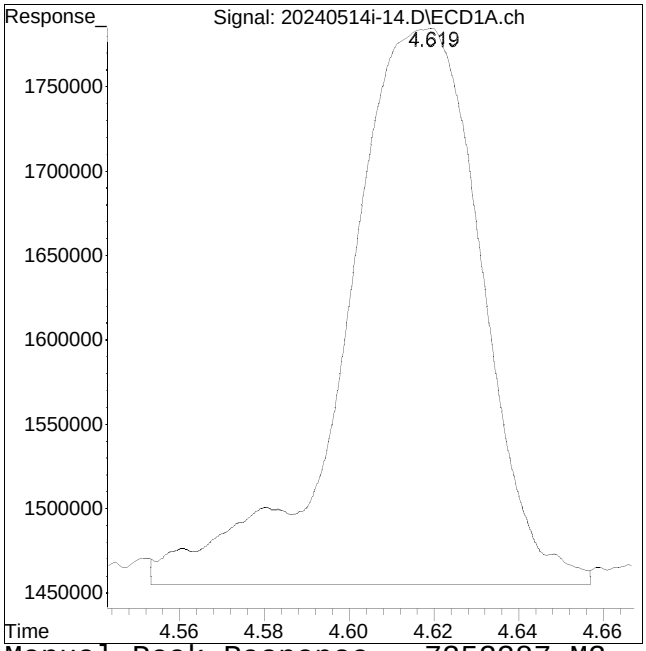
Original Peak Response = 1636373 Manual Peak Response = 1715823 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-14.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:14 pm Instrument : PEST 20
Sample : il3chlor,42e,,pp 11509 L0.Quant Date : 5/17/2024 9:16 am

Compound #32: chlordane-5





Original Peak Response = 6752078 Manual Peak Response = 7353387 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-15.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 07:26 pm
Operator : pest20:peg
Sample : il4chlor,42e,,pp 11508 L0.02
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:13:22 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:13:11 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.933	1.972	54475809	72873621	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-15.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 07:26 pm
Operator : pest20:peg
Sample : il4chlor,42e,,pp 11508 L0.02
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:13:22 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:13:11 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.377	3.683	2194882	2518272	25.593	25.406
30)	l1	chlordane-3	3.856	4.345	2872601	3331008	26.440	27.248M3
31)	l1	chlordane-4	4.477	5.059	8604034	9820935	24.155	25.344
32)	l1	chlordane-5	4.613	5.219	13210779	7770283	24.180M3	25.225
Sum		chlordane-1			26882296	23440498	NoCal	NoCal D
Average		chlordane-1					25.092	25.806
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum		toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum		toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

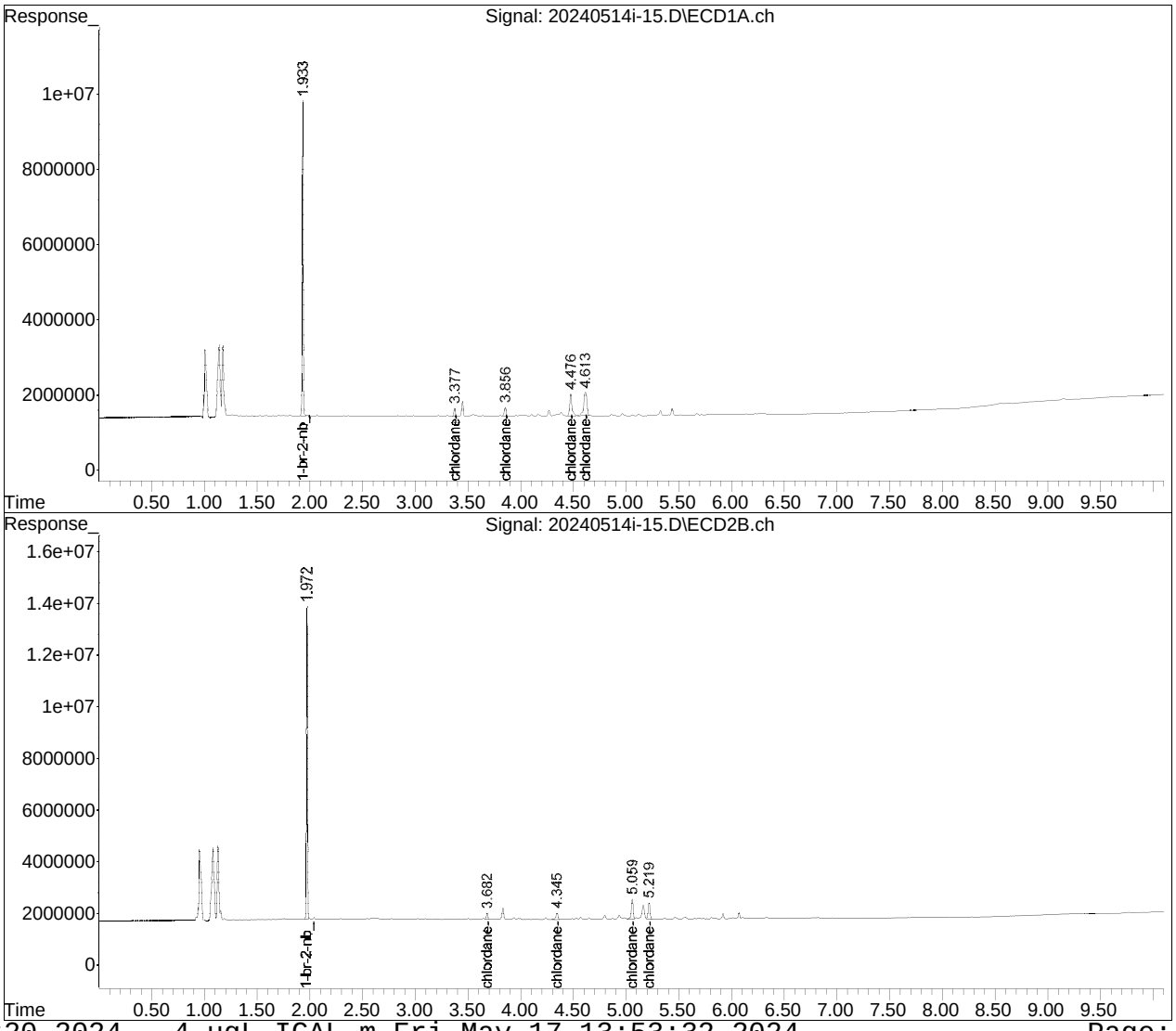
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-15.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 07:26 pm
Operator : pest20:peg
Sample : il4chlor,42e,,pp 11508 L0.02
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:13:22 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:13:11 2024
Response via : Initial Calibration
Integrator: ChemStation

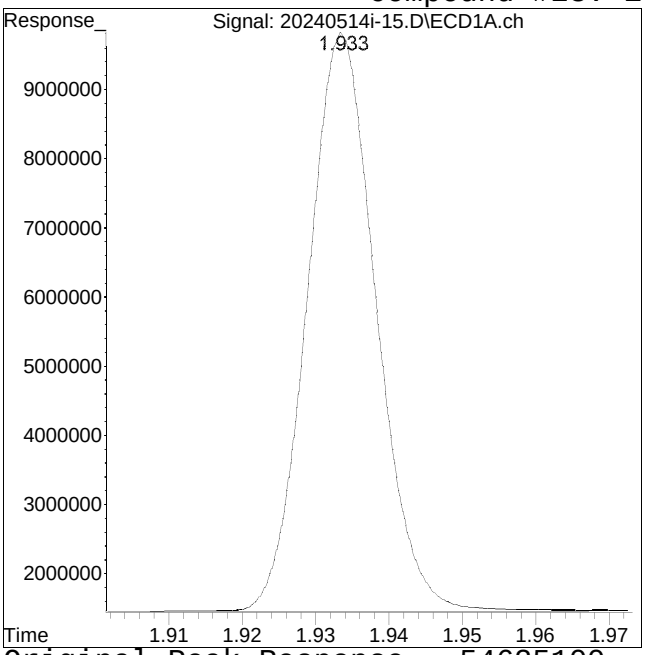
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



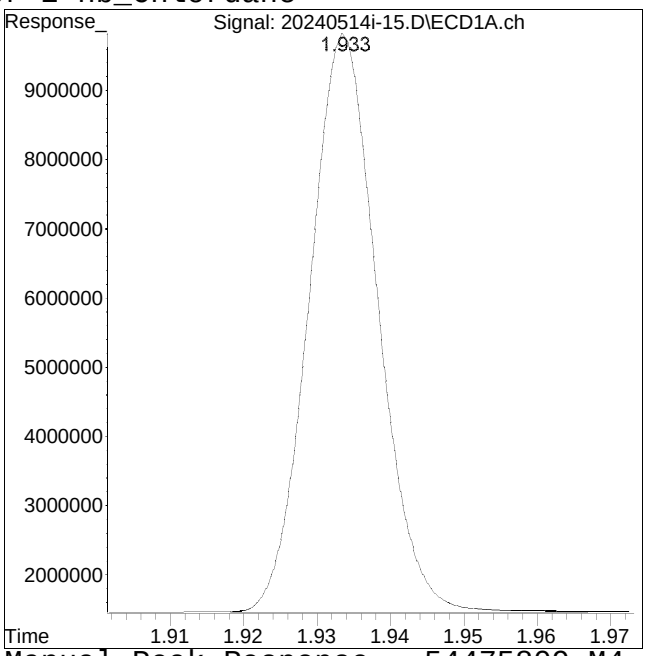
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-15.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:26 pm Instrument : PEST 20
Sample : il4chlor,42e,,pp 11508 L0.Quant Date : 5/17/2024 9:13 am

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 54625100



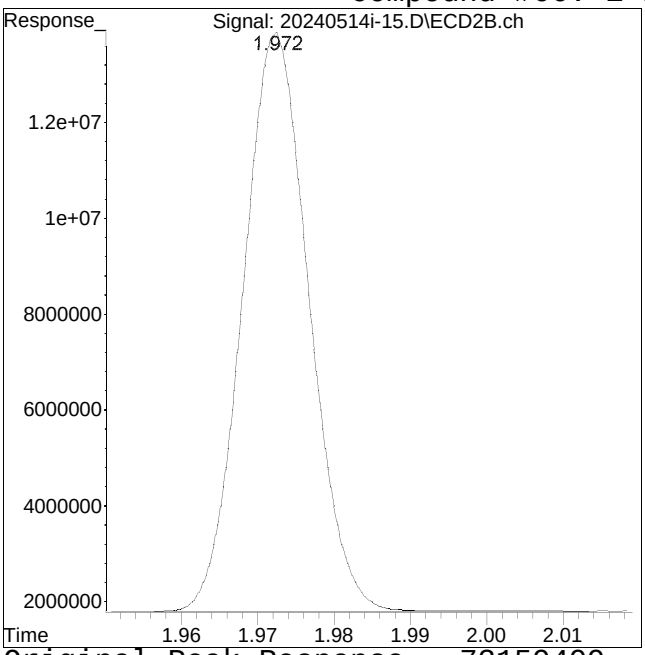
Manual Peak Response = 54475809 M4

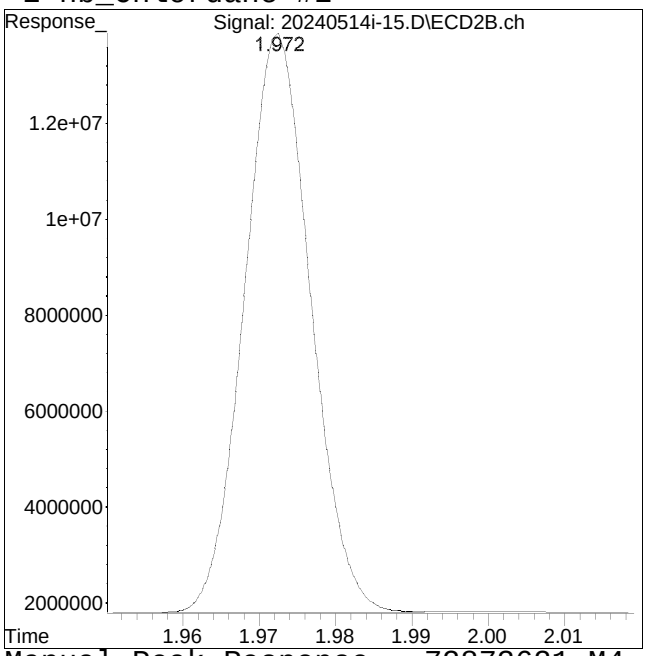
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-15.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:26 pm Instrument : PEST 20
Sample : il4chlor,42e,,pp 11508 L0.Quant Date : 5/17/2024 9:13 am

Compound #66: 1-br-2-nb_Chlordane #2



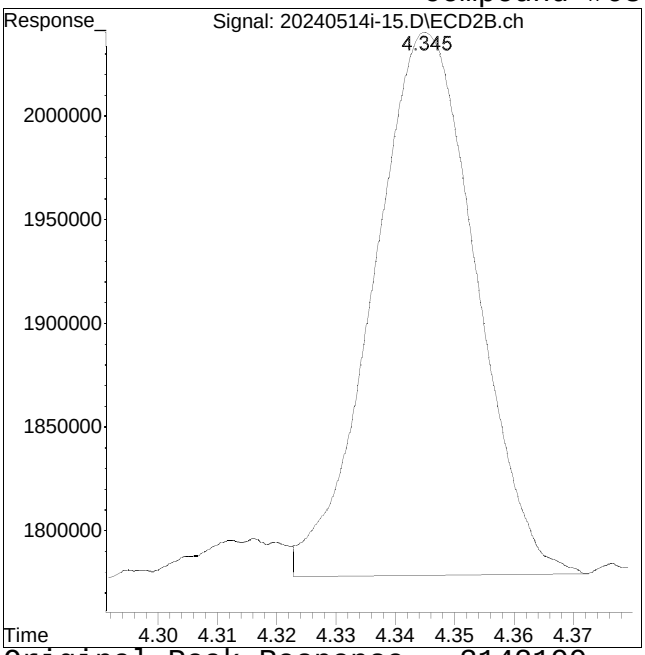


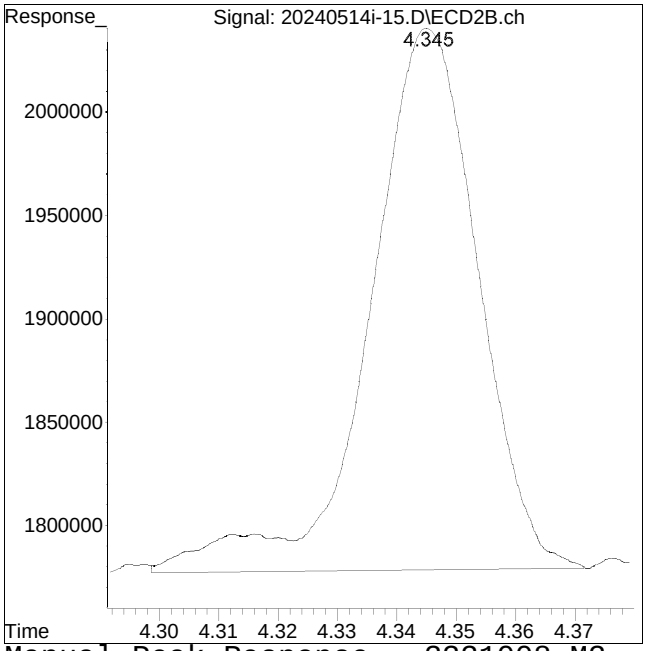
Original Peak Response = 73159499 Manual Peak Response = 72873621 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-15.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:26 pm Instrument : PEST 20
Sample : il4chlor,42e,,pp 11508 L0.Quant Date : 5/17/2024 9:13 am

Compound #68: chlordane-3 #2



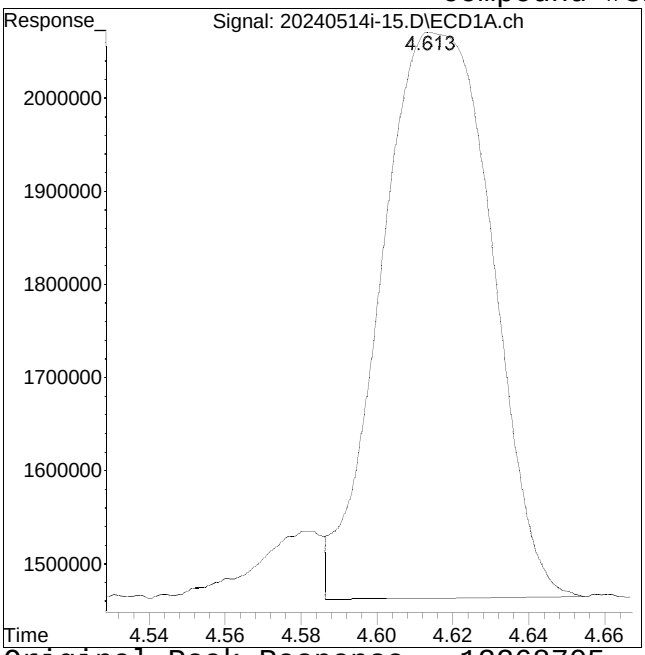


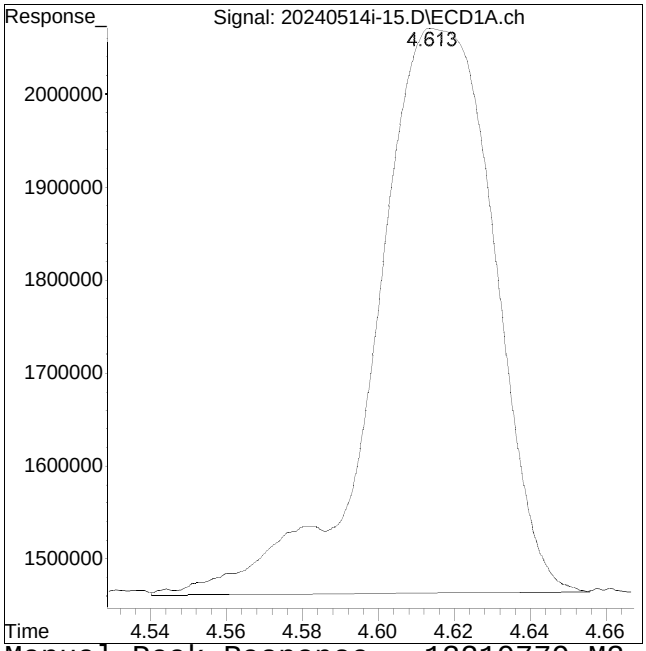
Original Peak Response = 3142199 Manual Peak Response = 3331008 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-15.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:26 pm Instrument : PEST 20
Sample : il4chlor,42e,,pp 11508 L0.Quant Date : 5/17/2024 9:13 am

Compound #32: chlordane-5





Original Peak Response = 12268705 Manual Peak Response = 13210779 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-16.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 07:39 pm
Operator : pest20:peg
Sample : il5chlor,42e,,pp 11507 L0.1
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 13:32:34 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 13:32:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.933	1.972	53538103	72192458	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-16.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 07:39 pm
Operator : pest20:peg
Sample : il5chlor,42e,,pp 11507 L0.1
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 13:32:34 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 13:32:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.378	3.683	9115767	11033553	114.562	118.784
30)	l1	chlordane-3	3.857	4.345	12242113	13973150	122.547	124.395M3
31)	l1	chlordane-4	4.477	5.059	36356119	41285491	108.356	113.620
32)	l1	chlordane-5	4.615	5.219	56093142	33413837	109.023M3	115.535
Sum		chlordane-1			113.8E6	99706031	NoCal	NoCal D
Average		chlordane-1					113.622	118.083
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum		toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum		toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

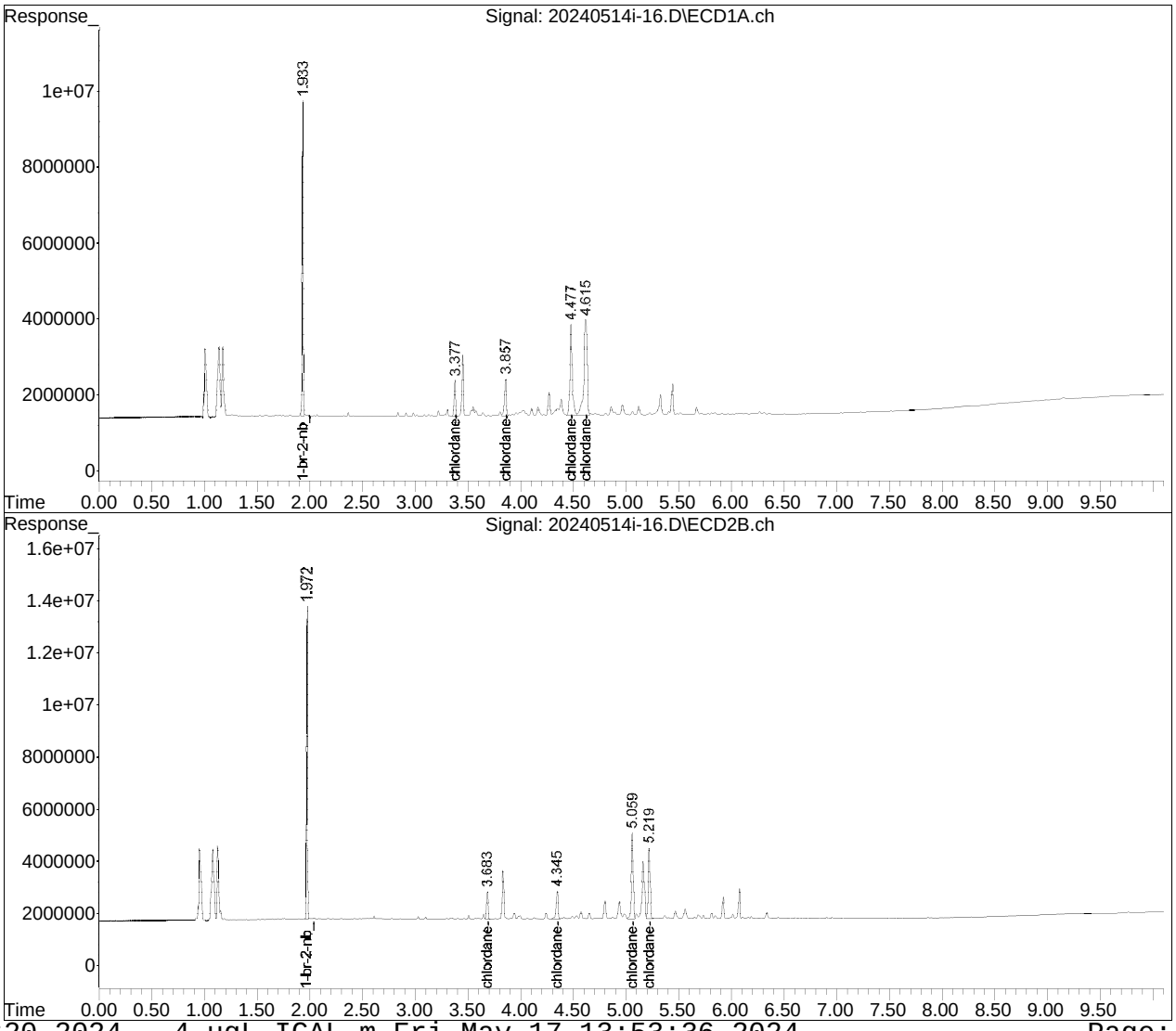
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-16.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 07:39 pm
Operator : pest20:peg
Sample : il5chlor,42e,,pp 11507 L0.1
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 13:32:34 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 13:32:23 2024
Response via : Initial Calibration
Integrator: ChemStation

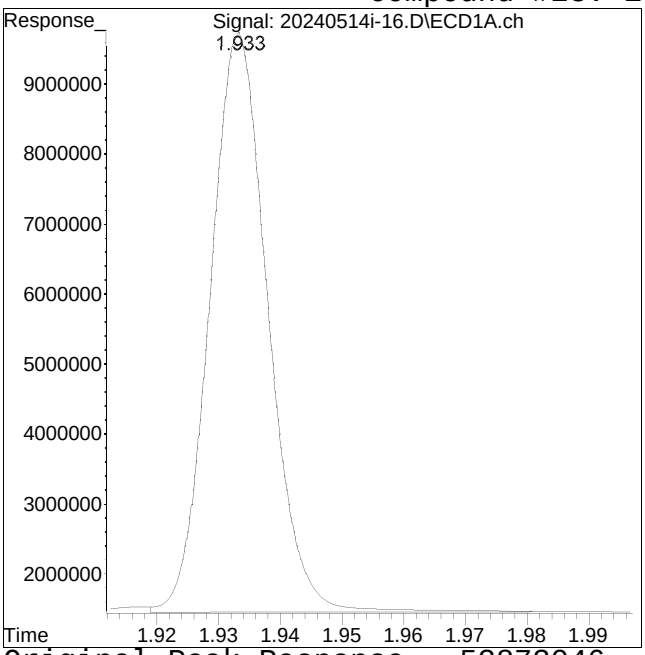
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



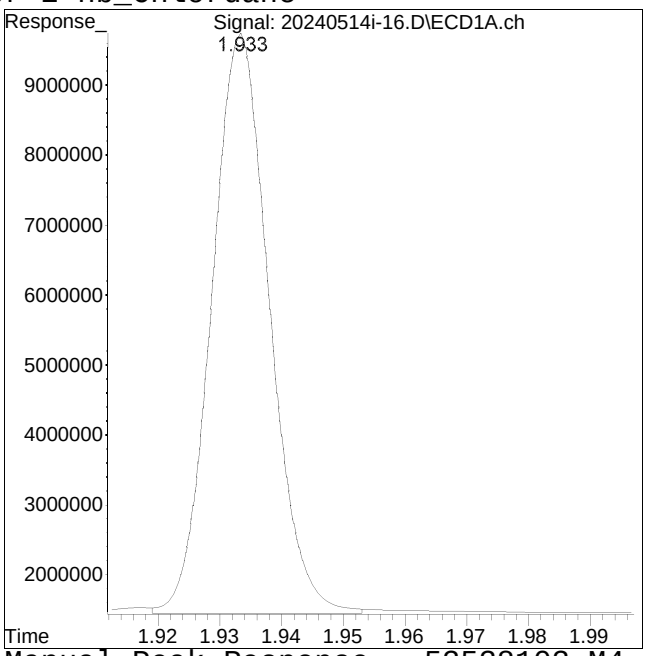
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-16.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:39 pm Instrument : PEST 20
Sample : il5chlor,42e,,pp 11507 L0.Quant Date : 5/16/2024 1:32 pm

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 53873046



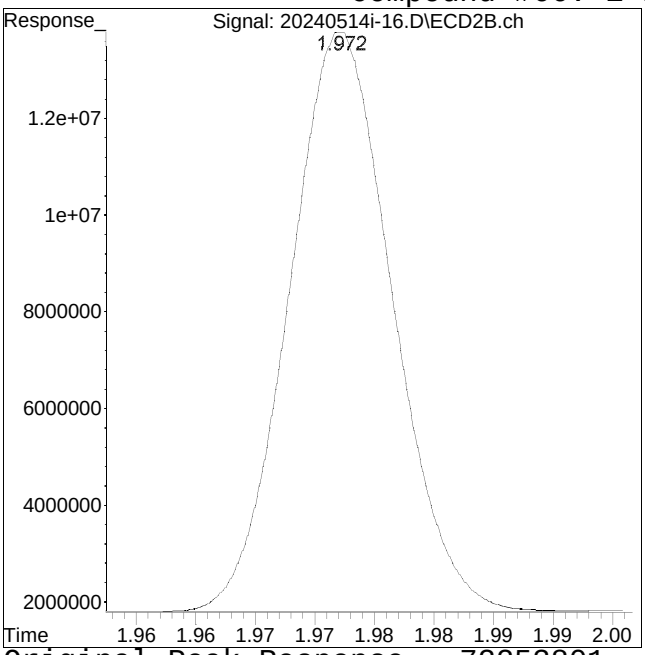
Manual Peak Response = 53538103 M4

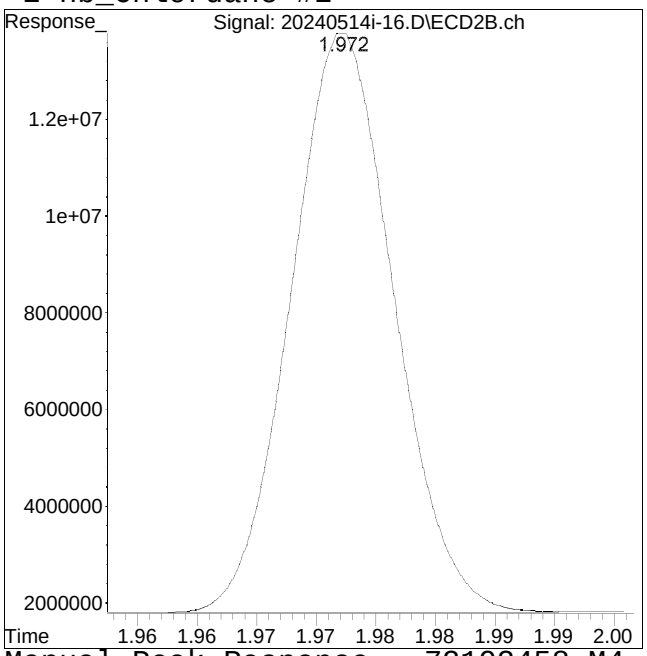
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-16.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:39 pm Instrument : PEST 20
Sample : il5chlor,42e,,pp 11507 L0.Quant Date : 5/16/2024 1:32 pm

Compound #66: 1-br-2-nb_Chlordane #2



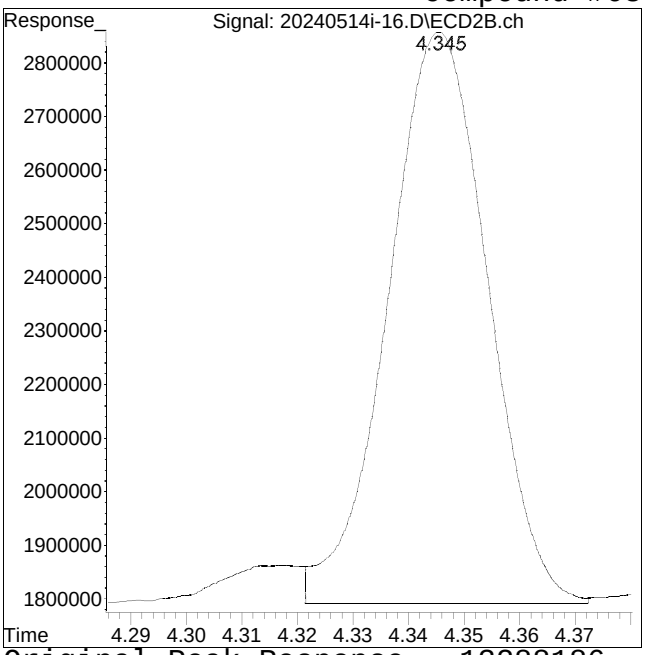


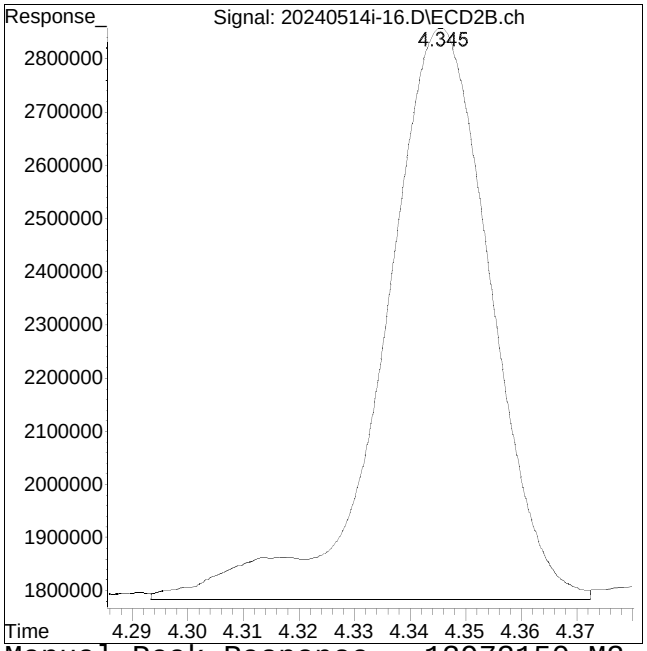
Original Peak Response = 72253801 Manual Peak Response = 72192458 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-16.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:39 pm Instrument : PEST 20
Sample : il5chlor,42e,,pp 11507 L0.Quant Date : 5/16/2024 1:32 pm

Compound #68: chlordane-3 #2



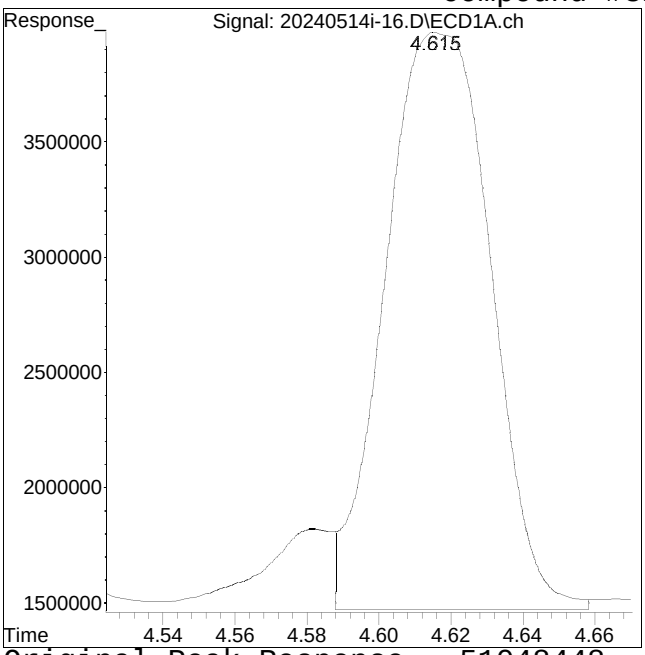


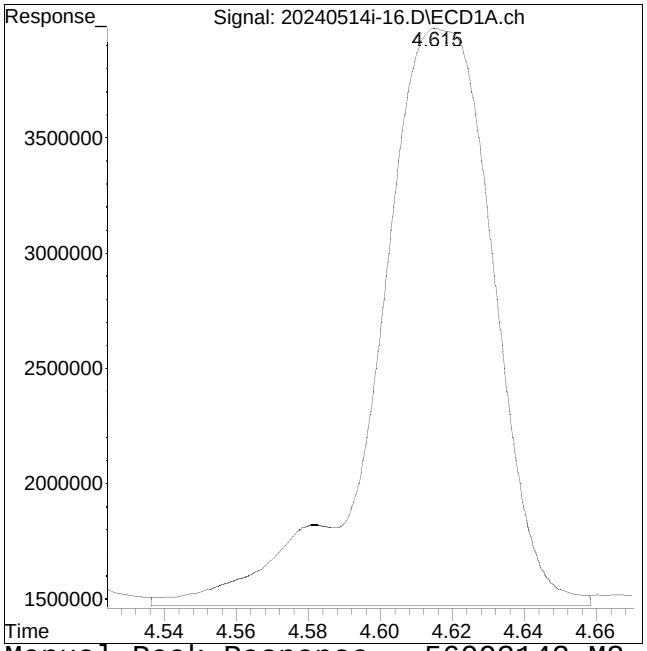
Original Peak Response = 13288186 Manual Peak Response = 13973150 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-16.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:39 pm Instrument : PEST 20
Sample : il5chlor,42e,,pp 11507 L0.Quant Date : 5/16/2024 1:32 pm

Compound #32: chlordane-5





Original Peak Response = 51048448 Manual Peak Response = 56093142 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-17.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 07:51 pm
Operator : pest20:peg
Sample : il7chlor,42e,,pp 11506 L0.5
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 13:29:17 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 13:29:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.933	1.972	54822813	75029913	25.000	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-17.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 07:51 pm
Operator : pest20:peg
Sample : il7chlor,42e,,pp 11506 L0.5
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 13:29:17 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 13:29:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.377	3.683	41403374	51586419	527.338	560.691
30)	l1	chlordane-3	3.856	4.345	53179292	64237801	550.917	585.983M3
31)	l1	chlordane-4	4.476	5.059	175.9E6	204.3E6	522.930	560.072
32)	l1	chlordane-5	4.616	5.219	269.9E6	162.7E6	524.131M3	563.215
		Sum chlordane-1			540.4E6	482.8E6	NoCal	NoCal D
		Average chlordane-1					531.329	567.490
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

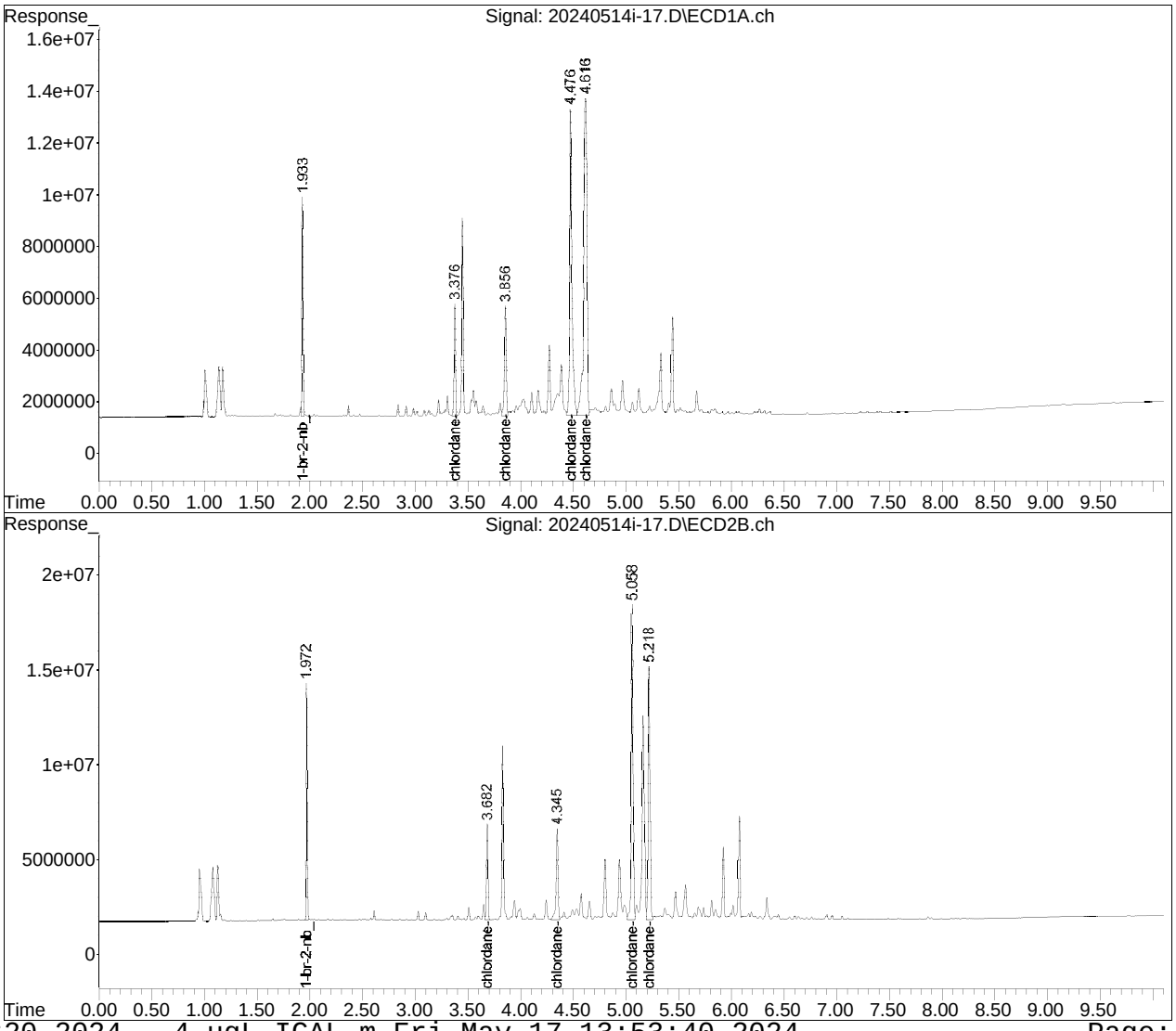
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-17.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 07:51 pm
Operator : pest20:peg
Sample : il7chlor,42e,,pp 11506 L0.5
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 16 13:29:17 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu May 16 13:29:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

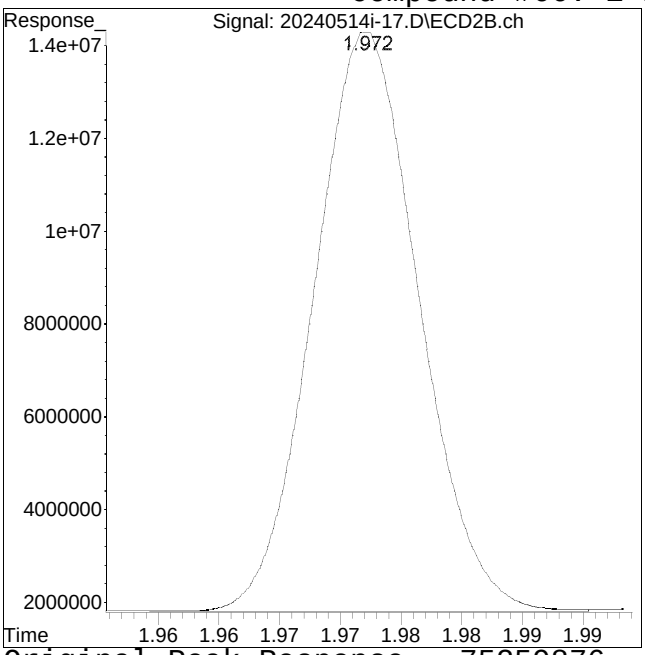


Manual Integration Report

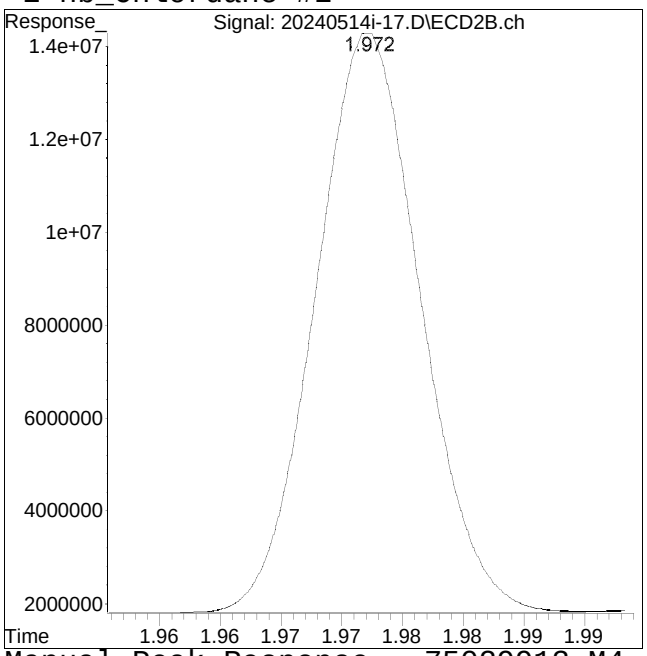
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-17.D
Date Inj'd : 5/14/2024 7:51 pm
Sample : il7chlor,42e,,pp 11506 L0.

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/16/2024 1:29 pm

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 75259876



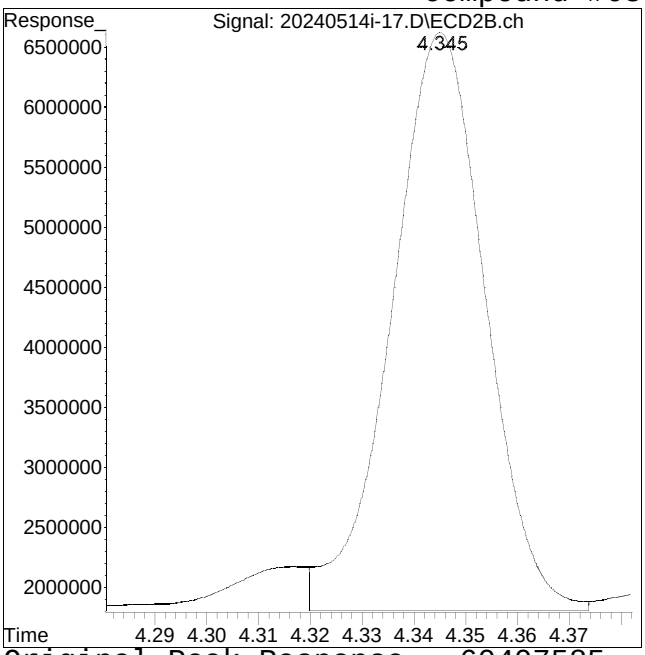
Manual Peak Response = 75029913 M4

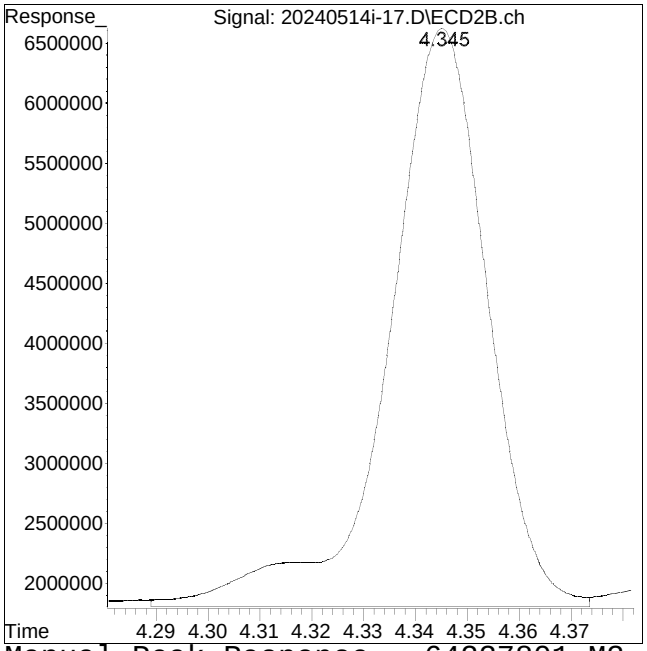
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-17.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:51 pm Instrument : PEST 20
Sample : il7chlor,42e,,pp 11506 L0.Quant Date : 5/16/2024 1:29 pm

Compound #68: chlordane-3 #2



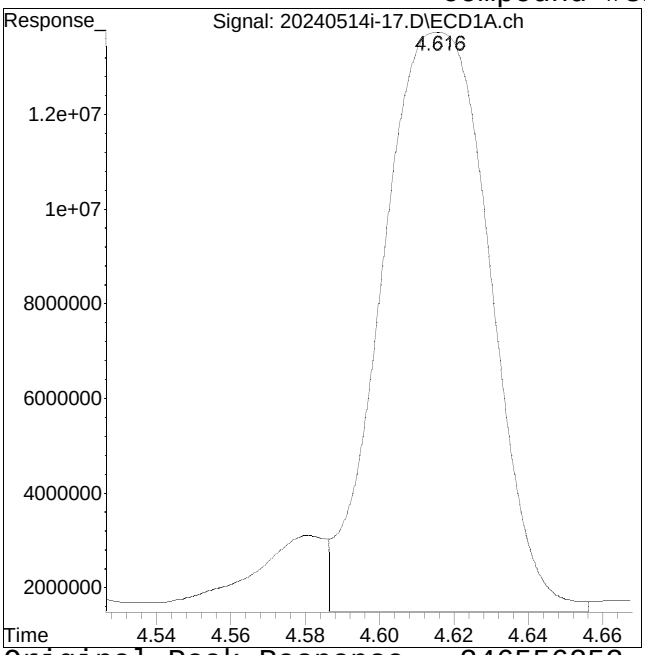


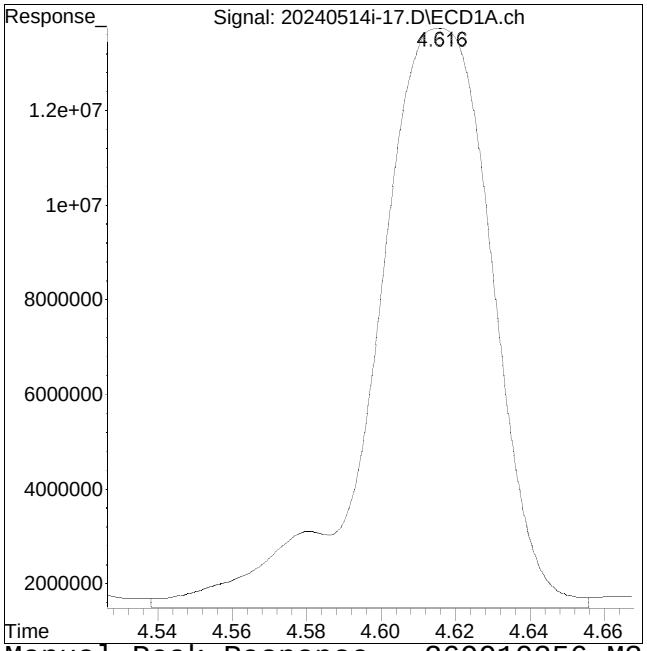
Original Peak Response = 60407585 Manual Peak Response = 64237801 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-17.D Operator : pest20:peg
Date Inj'd : 5/14/2024 7:51 pm Instrument : PEST 20
Sample : il7chlor,42e,,pp 11506 L0.Quant Date : 5/16/2024 1:29 pm

Compound #32: chlordane-5





Original Peak Response = 246556252 Manual Peak Response = 269910256 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-18.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 08:04 pm
Operator : pest20:peg
Sample : il8chlor,42e,,pp 11505 L1.0
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:24:01 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:23:51 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.934	1.972	56199730	78784434	25.000	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-18.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 08:04 pm
Operator : pest20:peg
Sample : il8chlor,42e,,pp 11505 L1.0
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:24:01 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:23:51 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.378	3.683	81351911	102.9E6	878.574	912.786
30)	l1	chlordane-3	3.857	4.345	101.2E6	123.9E6	845.481	879.810M3
31)	l1	chlordane-4	4.477	5.059	350.2E6	409.2E6	904.012	929.973
32)	l1	chlordane-5	4.614	5.219	536.5E6	324.1E6	900.340M3	927.839
	Sum	chlordane-1			1069.2E6	960.1E6	N.D.	N.D. D
Average		chlordane-1					882.102	912.602
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

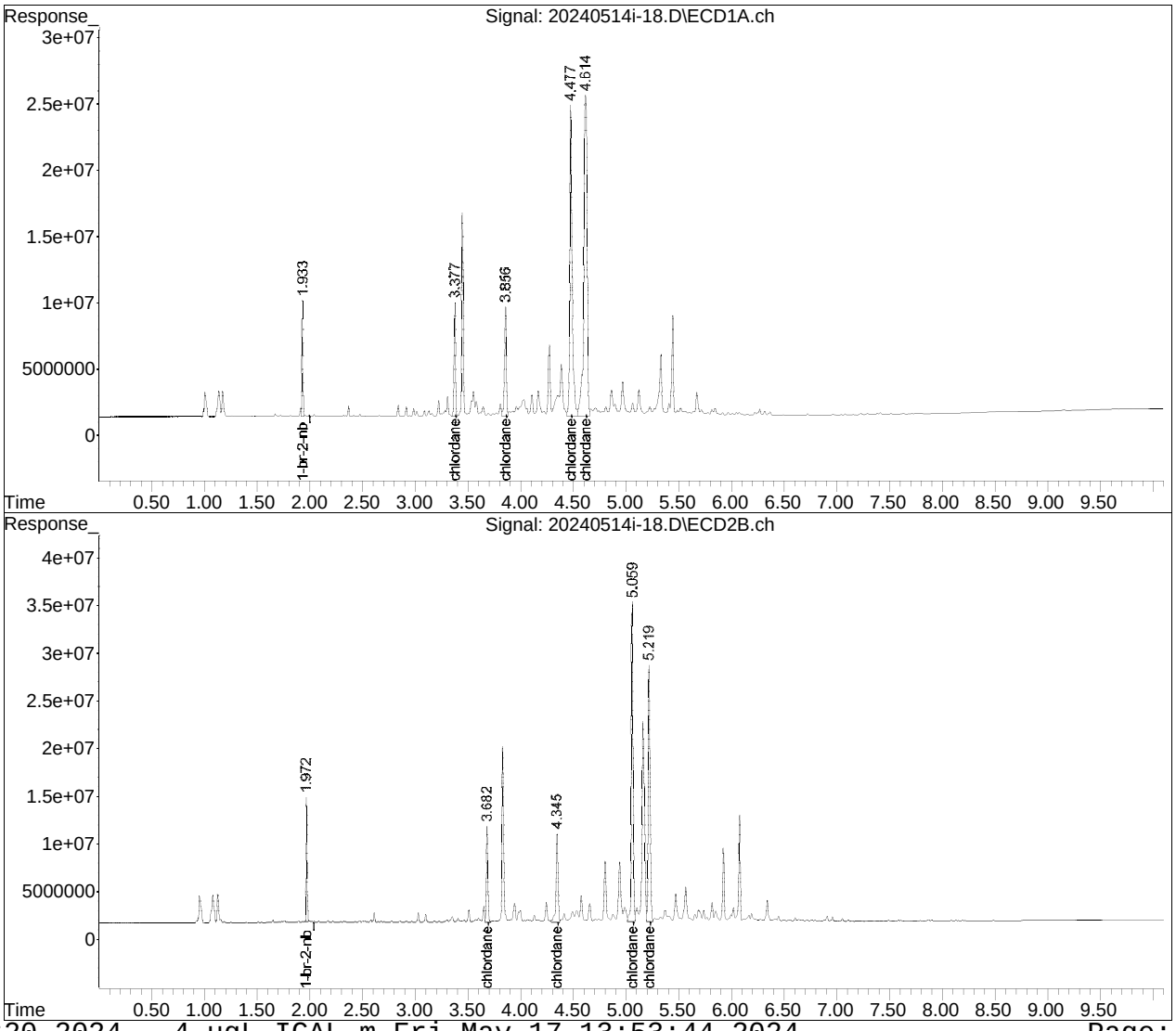
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-18.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 08:04 pm
Operator : pest20:peg
Sample : il8chlor,42e,,pp 11505 L1.0
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:24:01 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:23:51 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

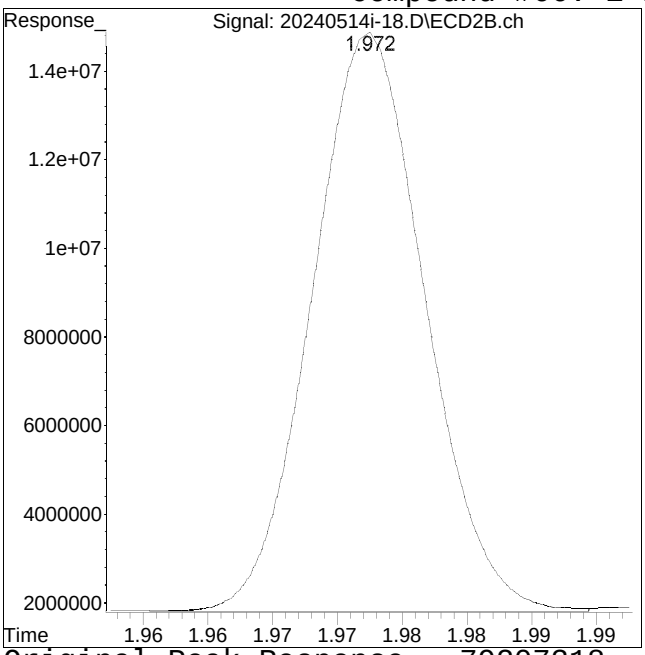


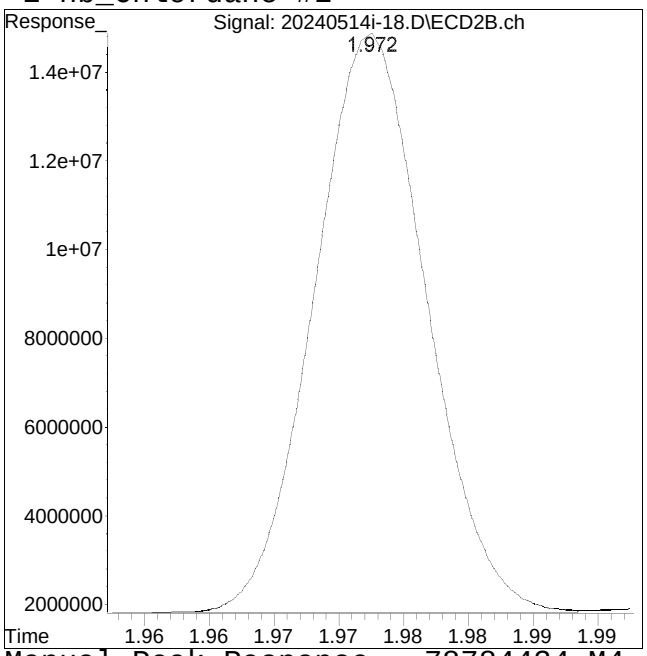
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-18.D
Date Inj'd : 5/14/2024 8:04 pm
Sample : il8chlor,42e,,pp 11505 L1.

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/17/2024 9:24 am

Compound #66: 1-br-2-nb_Chlordane #2



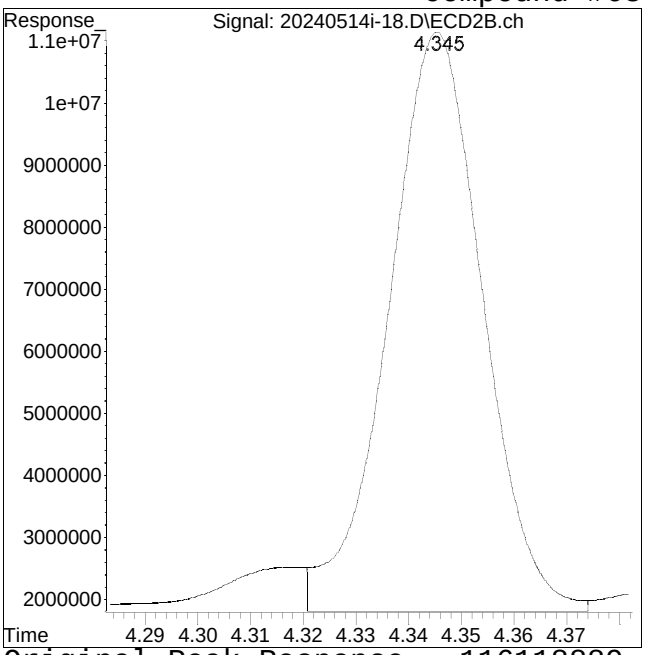


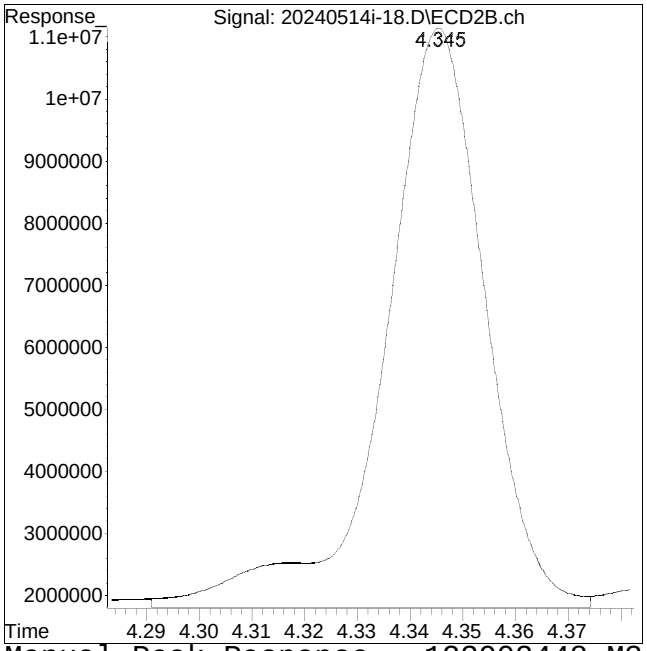
Original Peak Response = 79207318 Manual Peak Response = 78784434 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-18.D Operator : pest20:peg
Date Inj'd : 5/14/2024 8:04 pm Instrument : PEST 20
Sample : il8chlor,42e,,pp 11505 L1.Quant Date : 5/17/2024 9:24 am

Compound #68: chlordane-3 #2



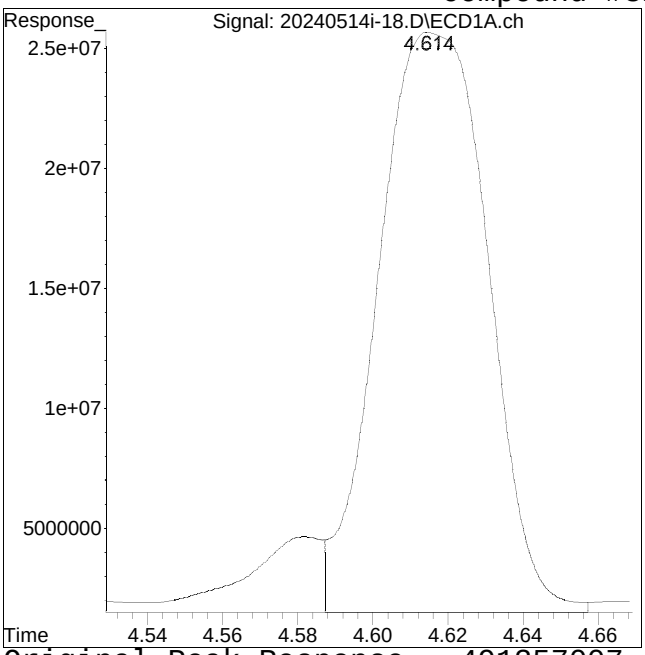


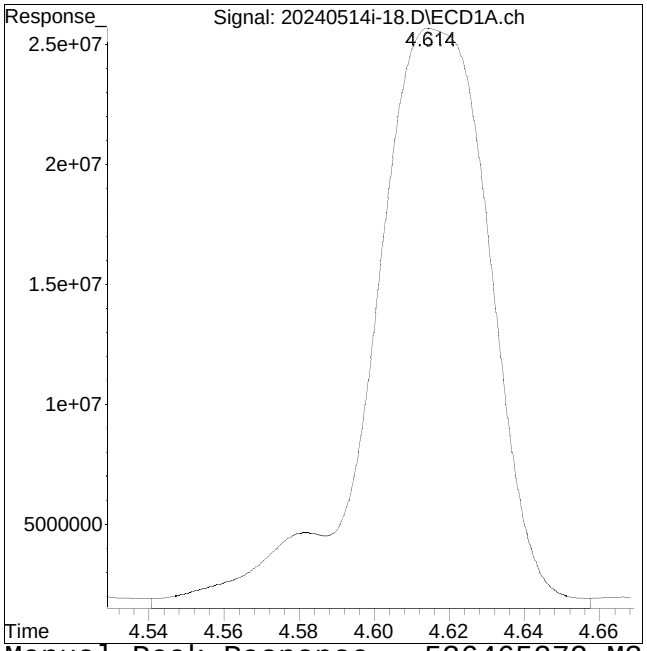
Original Peak Response = 116118889 Manual Peak Response = 123902448 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-18.D Operator : pest20:peg
Date Inj'd : 5/14/2024 8:04 pm Instrument : PEST 20
Sample : il8chlor,42e,,pp 11505 L1.Quant Date : 5/17/2024 9:24 am

Compound #32: chlordane-5





Original Peak Response = 491357007 Manual Peak Response = 536465272 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-19.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 08:16 pm
Operator : pest20:peg
Sample : il9chlor,42e,,pp 11504 L2.0
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:22:50 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:22:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.933	1.972	53912901	80592639	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-19.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 08:16 pm
Operator : pest20:peg
Sample : il9chlor,42e,,pp 11504 L2.0
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:22:50 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:22:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.377	3.682	156.3E6	198.6E6	1759.713	1722.290
30)	l1	chlordane-3	3.856	4.345	189.3E6	231.7E6	1648.130	1608.374M3
31)	l1	chlordane-4	4.476	5.059	674.8E6	791.3E6	1816.001	1758.074
32)	l1	chlordane-5	4.615	5.219	1034.2E6	625.4E6	1809.550M3	1750.078
		Sum chlordane-1			2054.6E6	1847.0E6	N.D.	N.D. D
		Average chlordane-1					1758.348	1709.704
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

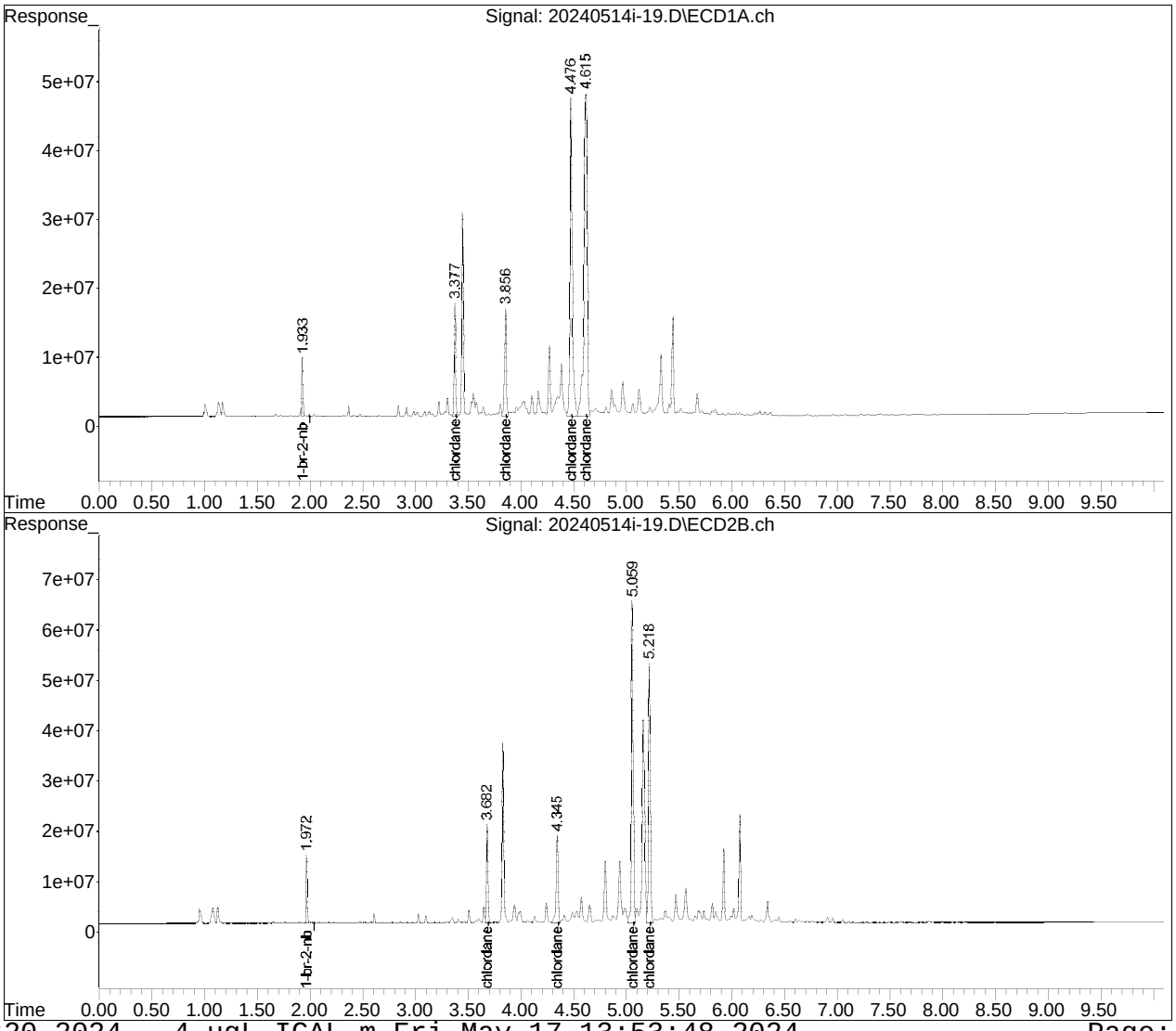
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-19.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 08:16 pm
Operator : pest20:peg
Sample : il9chlor,42e,,pp 11504 L2.0
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:22:50 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:22:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

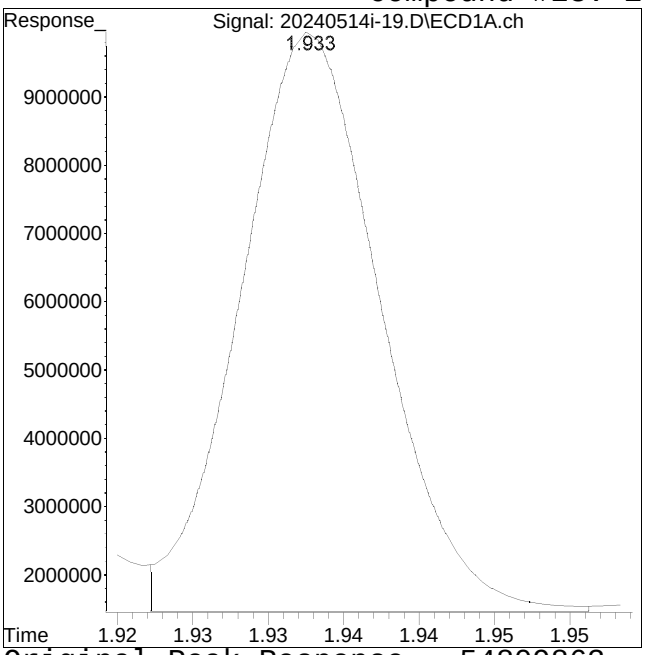


Manual Integration Report

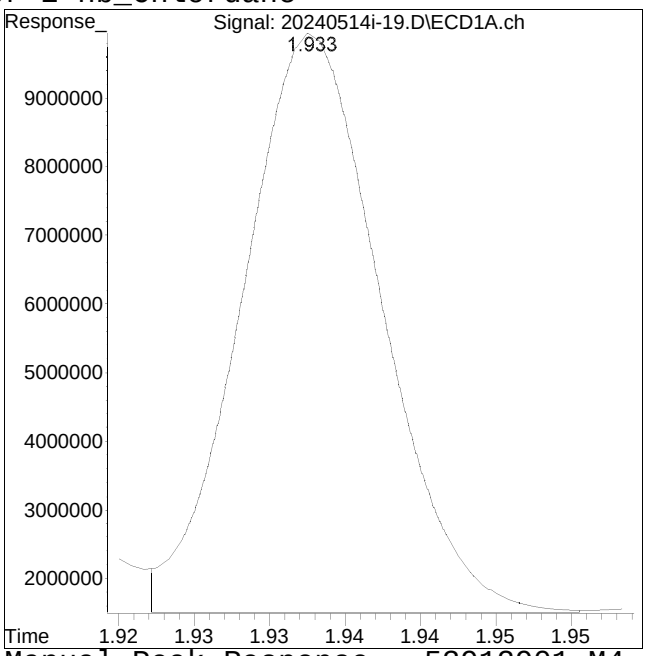
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-19.D
Date Inj'd : 5/14/2024 8:16 pm
Sample : il9chlor,42e,,pp 11504 L2.

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/17/2024 9:22 am

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 54809863



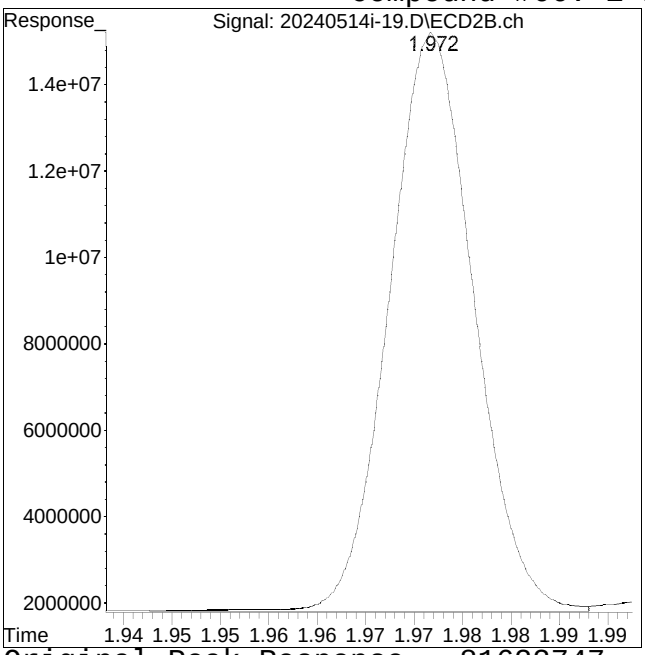
Manual Peak Response = 53912901 M4

M4 = Poor automated baseline construction.

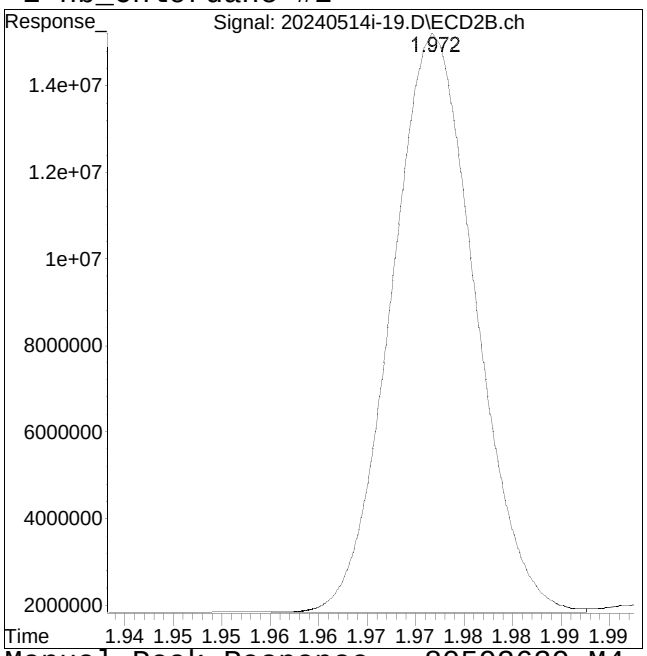
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-19.D Operator : pest20:peg
Date Inj'd : 5/14/2024 8:16 pm Instrument : PEST 20
Sample : il9chlor,42e,,pp 11504 L2.Quant Date : 5/17/2024 9:22 am

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 81622747



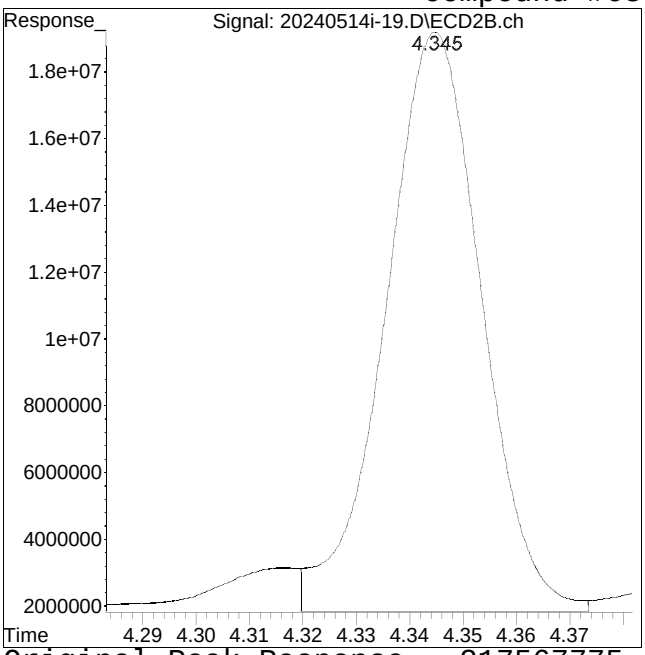
Manual Peak Response = 80592639 M4

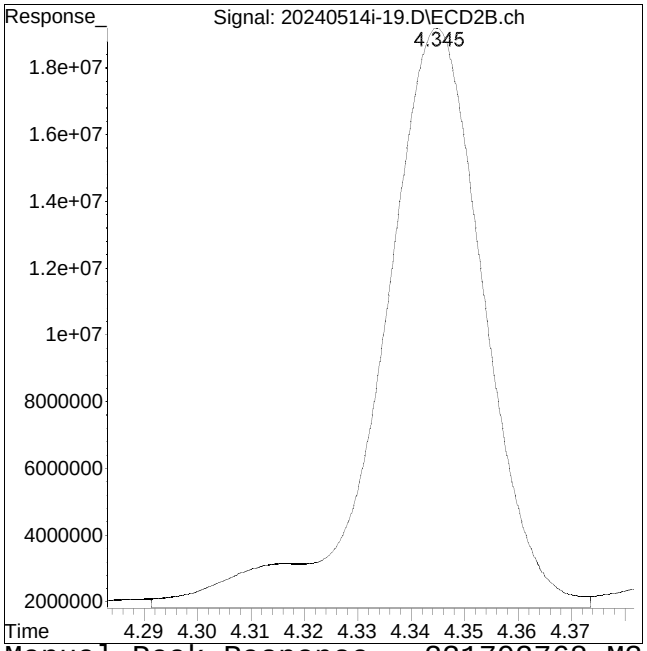
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-19.D Operator : pest20:peg
Date Inj'd : 5/14/2024 8:16 pm Instrument : PEST 20
Sample : il9chlor,42e,,pp 11504 L2.Quant Date : 5/17/2024 9:22 am

Compound #68: chlordane-3 #2



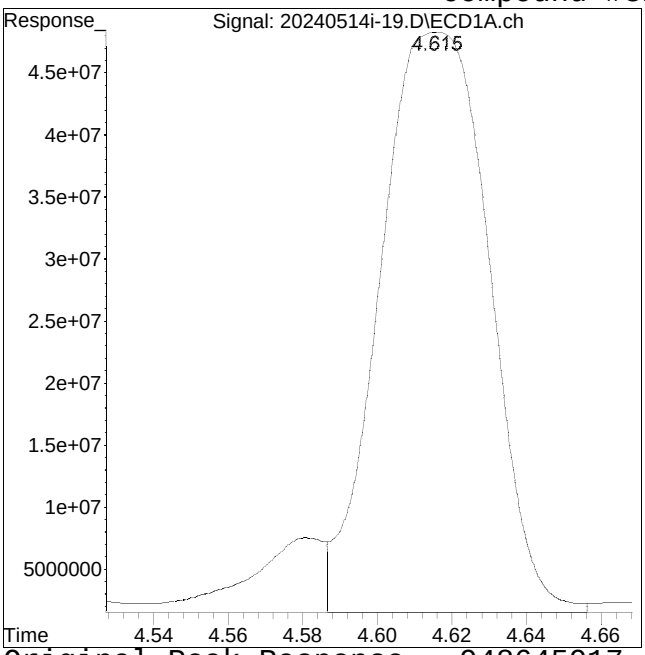


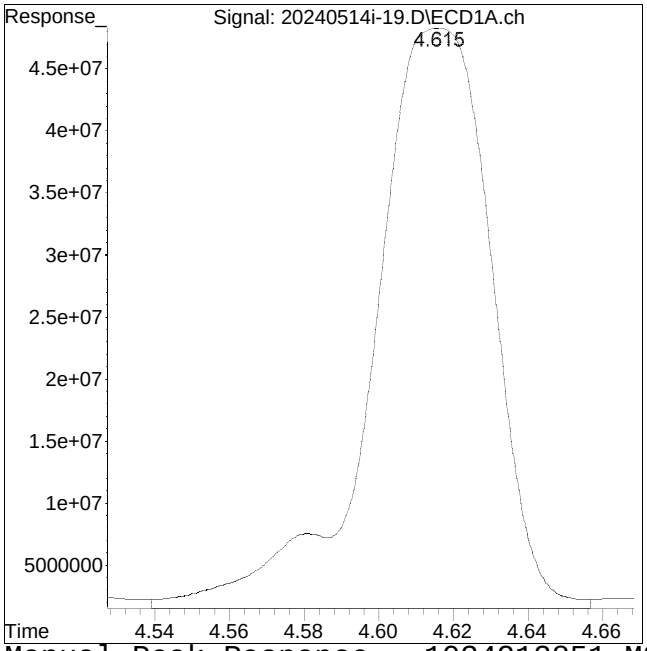
Original Peak Response = 217567775 Manual Peak Response = 231703768 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-19.D Operator : pest20:peg
Date Inj'd : 5/14/2024 8:16 pm Instrument : PEST 20
Sample : il9chlor,42e,,pp 11504 L2.Quant Date : 5/17/2024 9:22 am

Compound #32: chlordane-5





Original Peak Response = 948645917 Manual Peak Response = 1034212851 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-20.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 08:29 pm
Operator : pest20:peg
Sample : il10chlor,42e,,pp 11549 L5.0
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:21:51 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:21:40 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.933	1.972	58040561	98518478	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-20.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 08:29 pm
Operator : pest20:peg
Sample : il10chlor,42e,,pp 11549 L5.0
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:21:51 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:21:40 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.377	3.683	383.3E6	488.7E6	4008.530	3467.528
30)	l1	chlordane-3	3.857	4.345	448.9E6	552.6E6	3631.578	3137.815
31)	l1	chlordane-4	4.477	5.059	1636.1E6	1920.3E6	4089.846	3490.105
32)	l1	chlordane-5	4.614	5.219	2495.6E6	1512.7E6	4056.089M3	3463.079
		Sum chlordane-1			4963.9E6	4474.4E6	N.D.	N.D. D
		Average chlordane-1					3946.511	3389.632
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

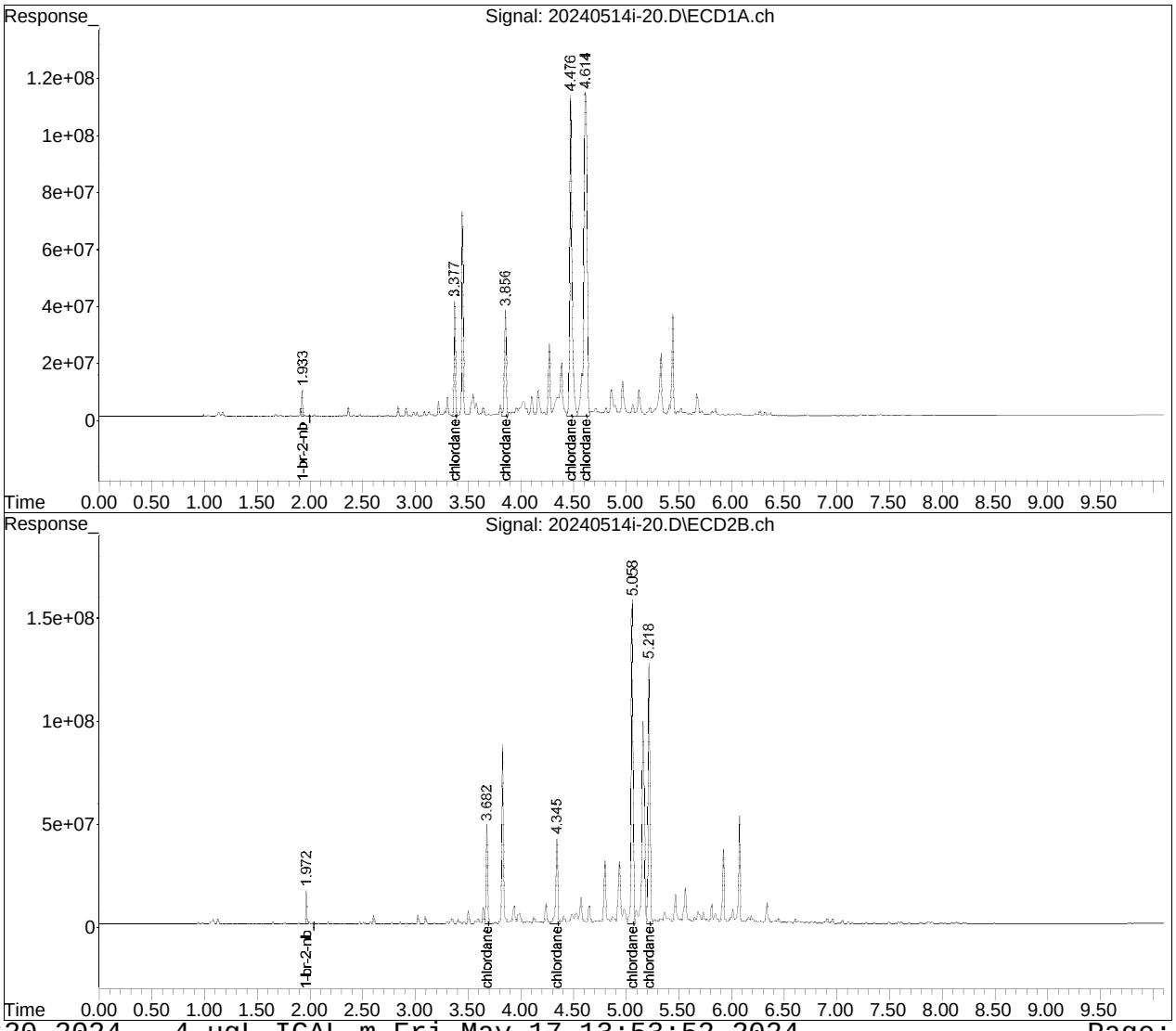
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-20.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 08:29 pm
Operator : pest20:peg
Sample : il10chlor,42e,,pp 11549 L5.0
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:21:51 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:21:40 2024
Response via : Initial Calibration
Integrator: ChemStation

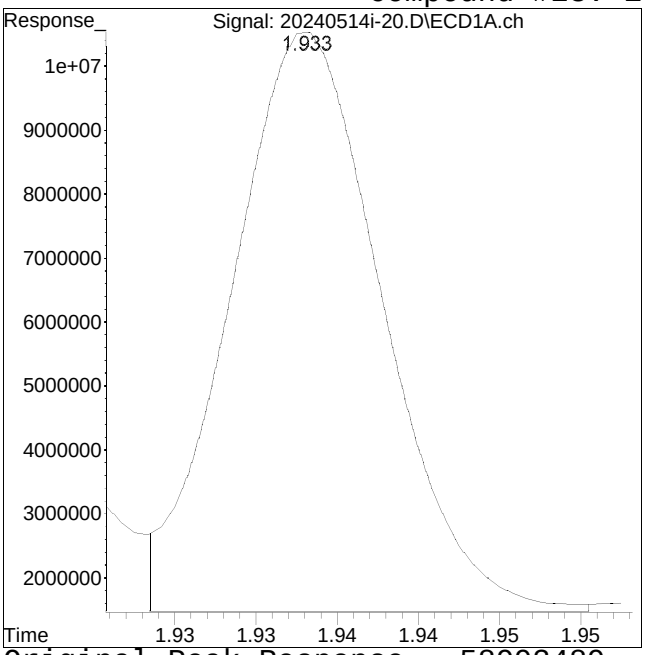
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



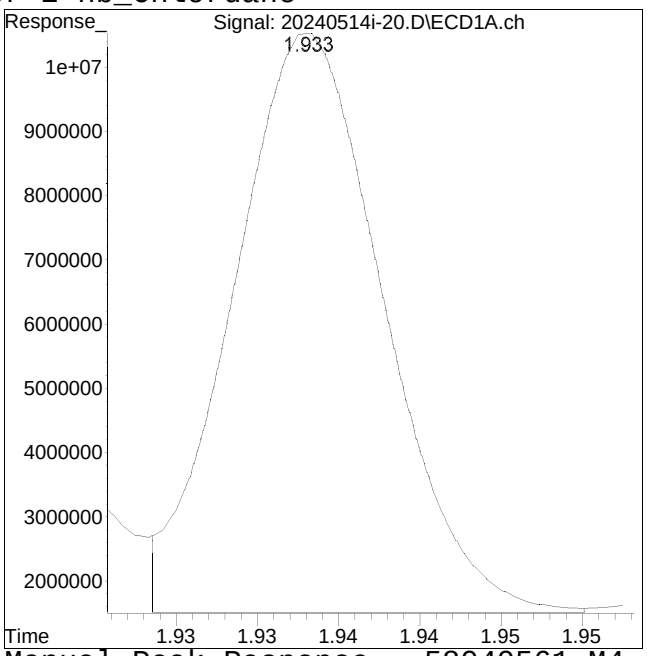
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-20.D Operator : pest20:peg
Date Inj'd : 5/14/2024 8:29 pm Instrument : PEST 20
Sample : il10chlor,42e,,pp 11549 L5Quant Date : 5/17/2024 9:21 am

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 58993489

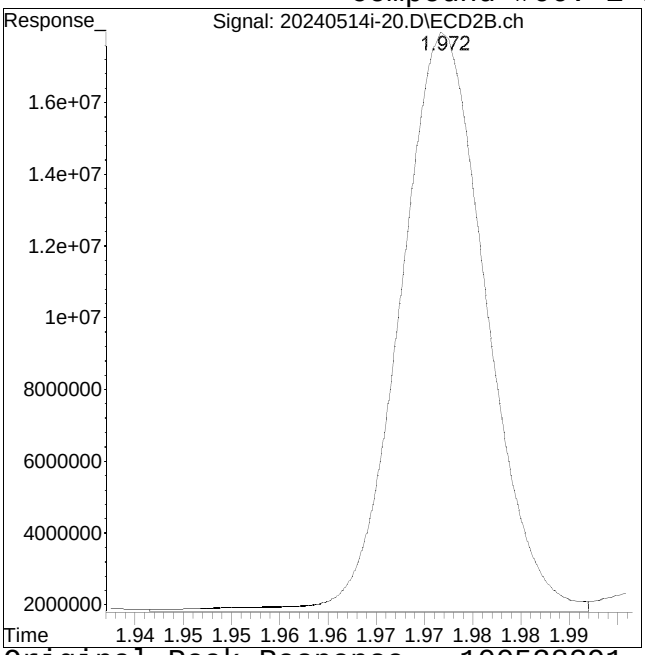


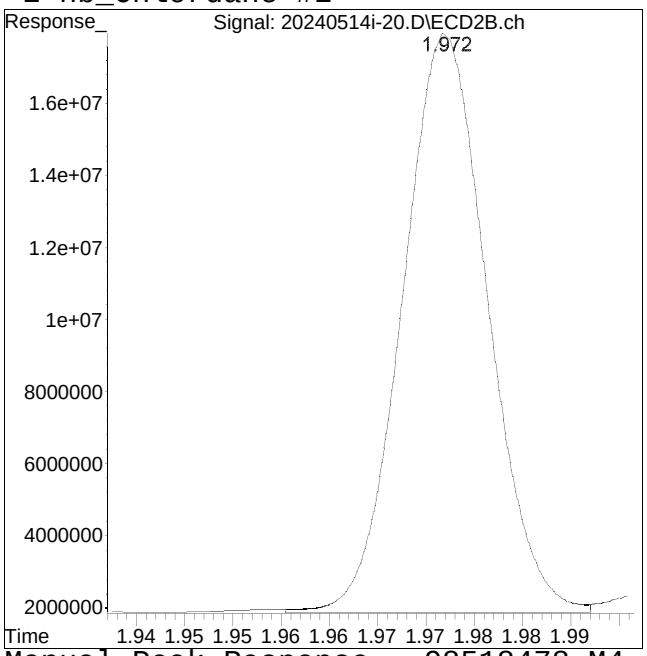
Manual Peak Response = 58040561 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-20.D Operator : pest20:peg
Date Inj'd : 5/14/2024 8:29 pm Instrument : PEST 20
Sample : il10chlor,42e,,pp 11549 L5Quant Date : 5/17/2024 9:21 am

Compound #66: 1-br-2-nb_Chlordane #2



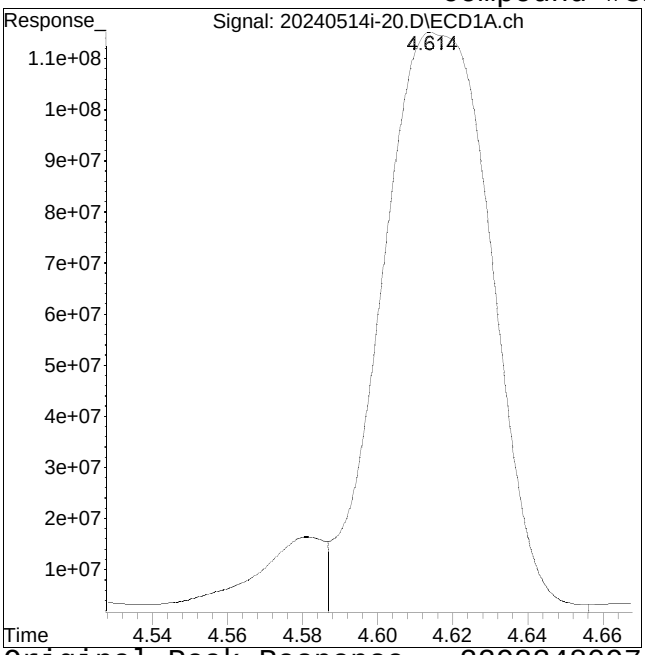


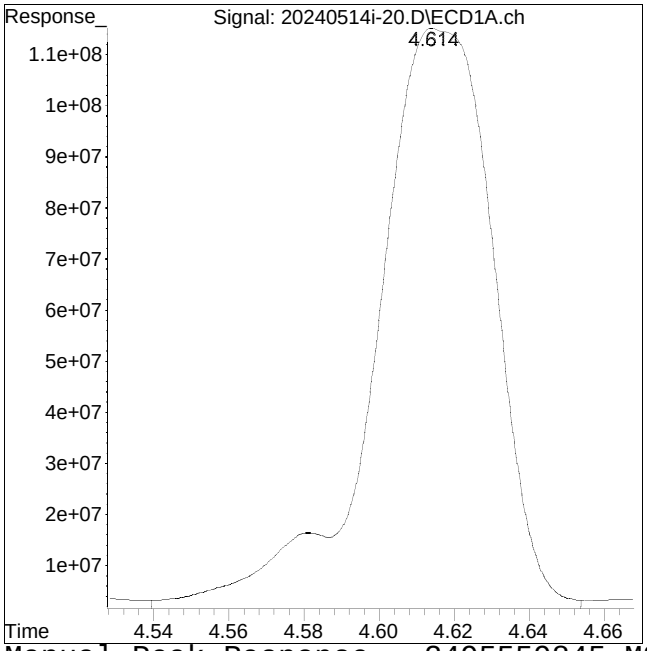
Original Peak Response = 100538391 Manual Peak Response = 98518478 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-20.D Operator : pest20:peg
Date Inj'd : 5/14/2024 8:29 pm Instrument : PEST 20
Sample : il10chlor,42e,,pp 11549 L5Quant Date : 5/17/2024 9:21 am

Compound #32: chlordane-5





Original Peak Response = 2293348097 Manual Peak Response = 2495559845 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 14 May 2024 08:41 pm
Operator : pest20:peg
Sample   : cicvchlor,42e,,pp 11540 L1.0ICV
Misc   : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 21   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 10:17:36 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:52:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	104	0.00
29	l1	chlordane-1		*1000.000	886.003	11.4	91	0.00
30	l1	chlordane-3		*1000.000	881.698	11.8	89	0.00
31	l1	chlordane-4		*1000.000	861.562	13.8	88	0.00
32	l1	chlordane-5		*1000.000	951.184	4.9	97	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	97	0.00
29	l1	chlordane-1		*1000.000	964.691	3.5	91	0.00
30	l1	chlordane-3		*1000.000	963.828	3.6	90	0.00
31	l1	chlordane-4		*1000.000	911.514	8.8	86	0.00
32	l1	chlordane-5		*1000.000	899.198	10.1	85	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.94#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.150	0.000	100.0#	0#	-2.41#
3		Hexachlorobenzene		* 50.000	0.000	100.0#	0	-2.68#
4		alpha-BHC		1.370	0.000	100.0#	0#	-2.80#
5		gamma-BHC (lindane)		1.310	0.000	100.0#	0#	-3.04#
6		beta-BHC		* 50.000	0.000	100.0#	0	-3.11#
7		delta-BHC		1.132	0.000	100.0#	0#	-3.26#
8		Heptachlor		1.317	0.000	100.0#	0#	-3.45#
9		Aldrin		1.296	0.000	100.0#	0#	-3.73#
10		Alachlor		0.174	0.000	100.0#	0#	-3.87#
11		Chlorpyrifos		* 50.000	0.000	100.0#	0	-3.97#
12		Heptachlor Epoxide		1.267	0.000	100.0#	0#	-4.34#
13		gamma-Chlordane (trans)		1.158	0.000	100.0#	0#	-4.48#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 14 May 2024 08:41 pm
Operator : pest20:peg
Sample   : cicvchlor,42e,,pp 11540 L1.0ICV
Misc   : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 21   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 10:17:36 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:52:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)		1.322	0.000	100.0#	0#	-4.63#
15		4,4'-DDE		1.213	0.000	100.0#	0#	-4.73#
16		Endosulfan I		1.204	0.000	100.0#	0#	-4.78#
17		Dieldrin		1.227	0.000	100.0#	0#	-5.04#
18		Endrin		1.228	0.000	100.0#	0#	-5.28#
19		4,4'-DDD		0.864	0.000	100.0#	0#	-5.38#
20		Endosulfan II		1.044	0.000	100.0#	0#	-5.51#
21		4,4'-DDT		0.935	0.000	100.0#	0#	-5.65#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.90#
23		Methoxychlor		0.480	0.000	100.0#	0#	-6.11#
24		Mirex	*	50.000	0.000	100.0#	0	-6.18#
25		Endosulfan Sulfate		0.858	0.000	100.0#	0#	-6.28#
26		Endrin Ketone		0.968	0.000	100.0#	0#	-6.50#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.29#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.93#
34	l2	toxaphene-1		0.042	0.000	100.0#	0#	-5.50#
35	l2	toxaphene-2		0.031	0.000	100.0#	0#	-6.01#
36	l2	toxaphene-4		0.025	0.000	100.0#	0#	-6.11#
37	l2	toxaphene-5		0.039	0.000	100.0#	0#	-6.19#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.97#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.109	0.000	100.0#	0#	-2.58#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.95#
4		alpha-BHC		1.369	0.000	100.0#	0#	-3.07#
5		gamma-BHC (lindane)		1.336	0.000	100.0#	0#	-3.39#
6		beta-BHC	*	50.000	0.000	100.0#	0	-3.46#
7		delta-BHC		1.265	0.000	100.0#	0#	-3.76#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 14 May 2024 08:41 pm
Operator : pest20:peg
Sample   : cicvchlor,42e,,pp 11540 L1.0ICV
Misc   : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 21   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 10:17:36 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:52:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8		Heptachlor		1.260	0.000	100.0#	0#	-3.83#
9		Aldrin		1.185	0.000	100.0#	0#	-4.18#
10		Alachlor		0.188	0.000	100.0#	0#	-4.05#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-4.44#
12		Heptachlor Epoxide		1.198	0.000	100.0#	0#	-4.84#
13		gamma-Chlordane (trans)		1.060	0.000	100.0#	0#	-5.06#
14		alpha-Chlordane (cis)		1.173	0.000	100.0#	0#	-5.22#
15		4,4'-DDE		1.143	0.000	100.0#	0#	-5.40#
16		Endosulfan I		1.098	0.000	100.0#	0#	-5.28#
17		Dieldrin		1.122	0.000	100.0#	0#	-5.55#
18		Endrin		1.138	0.000	100.0#	0#	-5.84#
19		4,4'-DDD		0.922	0.000	100.0#	0#	-5.95#
20		Endosulfan II		1.035	0.000	100.0#	0#	-6.03#
21		4,4'-DDT		1.005	0.000	100.0#	0#	-6.22#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-6.32#
23		Methoxychlor		0.583	0.000	100.0#	0#	-6.77#
24		Mirex	*	50.000	0.000	100.0#	0	-6.92#
25		Endosulfan Sulfate		0.976	0.000	100.0#	0#	-6.54#
26		Endrin Ketone		1.124	0.000	100.0#	0#	-6.95#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.83#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.97#
34	l2	toxaphene-1		0.022	0.000	100.0#	0#	-5.99#
35	l2	toxaphene-2		0.032	0.000	100.0#	0#	-6.02#
36	l2	toxaphene-4		0.038	0.000	100.0#	0#	-6.33#
37	l2	toxaphene-5		0.036	0.000	100.0#	0#	-6.73#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 08:41 pm
Operator : pest20:peg
Sample : cicvchlor,42e,,pp 11540 L1.0ICV
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 10:17:36 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:52:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.933	1.972	56801647	75737726	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 08:41 pm
Operator : pest20:peg
Sample : cicvchlor,42e,,pp 11540 L1.0ICV
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 10:17:36 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:52:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.378	3.682	73704265	93473732	886.003	964.691
30)	l1	chlordane-3	3.857	4.345	90529792	111.3E6	881.698	963.828M3
31)	l1	chlordane-4	4.478	5.058	307.8E6	351.0E6	861.562	911.514M4
32)	l1	chlordane-5	4.612	5.219	520.6E6	274.3E6	951.184M3	899.198
		Sum chlordane-1			992.5E6	830.1E6	N.D.	N.D. D
		Average chlordane-1					895.112	934.808
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

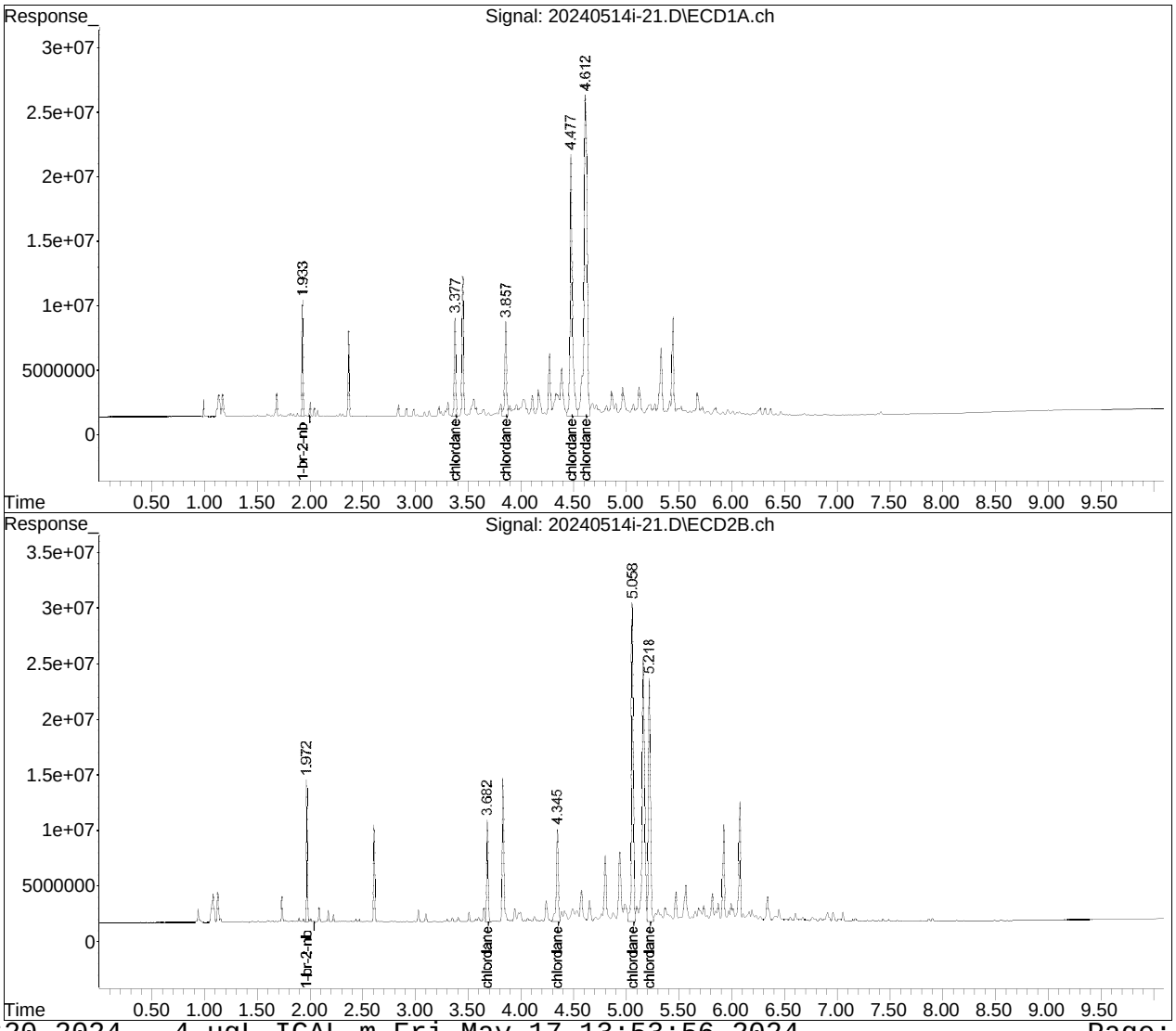
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 08:41 pm
Operator : pest20:peg
Sample : cicvchlor,42e,,pp 11540 L1.0ICV
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 10:17:36 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:52:10 2024
Response via : Initial Calibration
Integrator: ChemStation

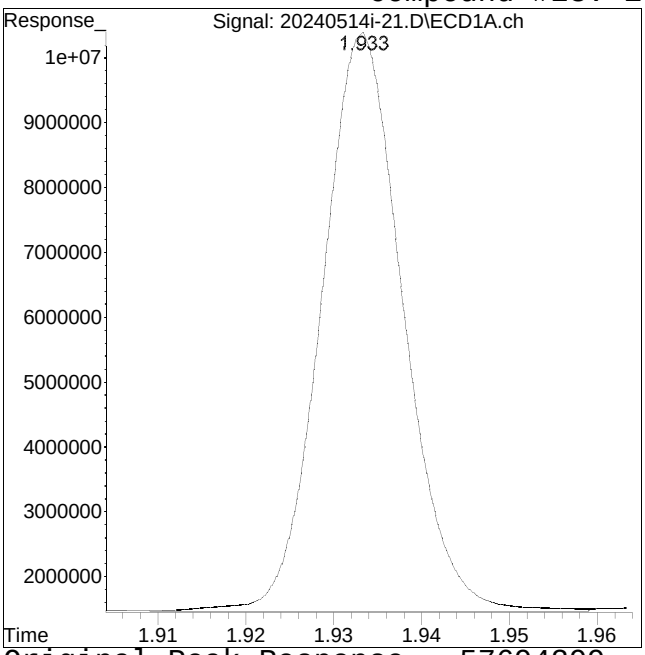
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

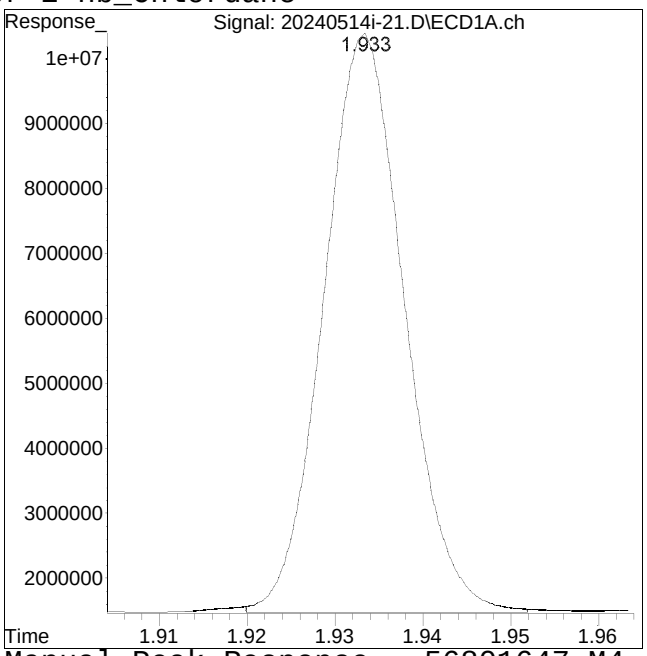


Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-21.D Operator : pest20:peg
Date Inj'd : 5/14/2024 8:41 pm Instrument : PEST 20
Sample : cicvchlor,42e,,pp 11540 L1Quant Date : 5/17/2024 10:17 am

Compound #28: 1-br-2-nb_Chlordane



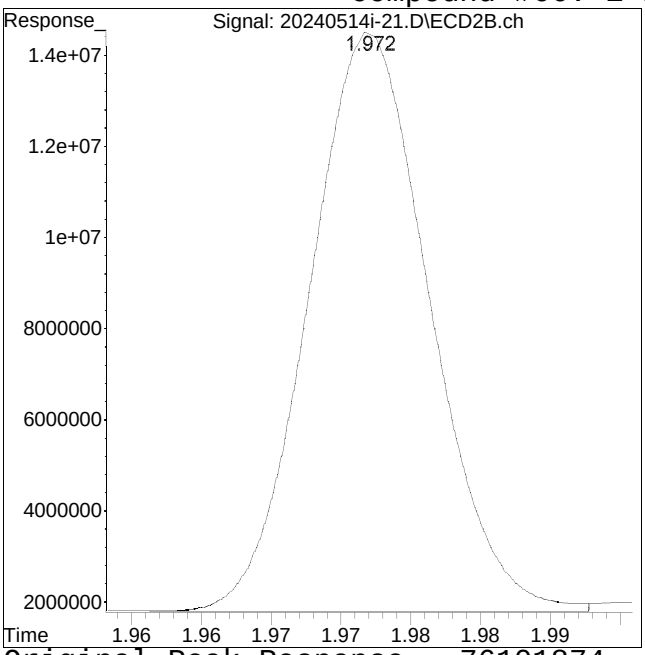


Original Peak Response = 57694299 Manual Peak Response = 56801647 M4
M4 = Poor automated baseline construction.

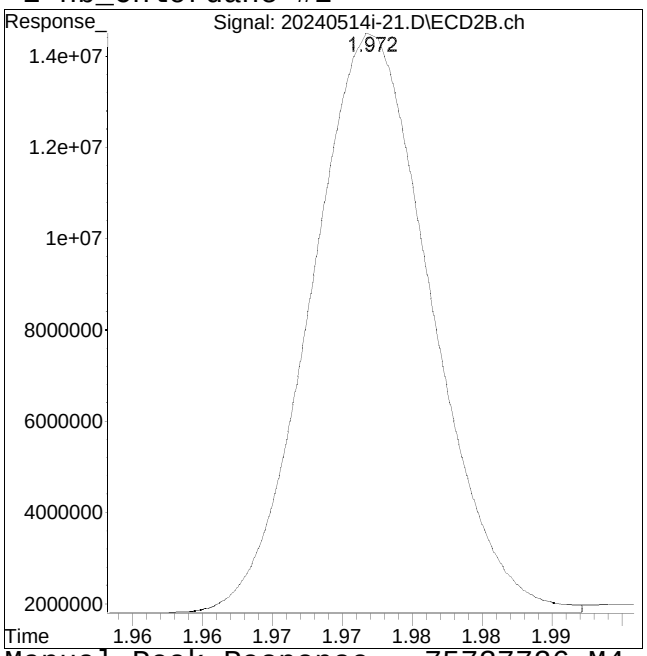
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-21.D Operator : pest20:peg
Date Inj'd : 5/14/2024 8:41 pm Instrument : PEST 20
Sample : cicvchlor,42e,,pp 11540 L1Quant Date : 5/17/2024 10:17 am

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 76101874



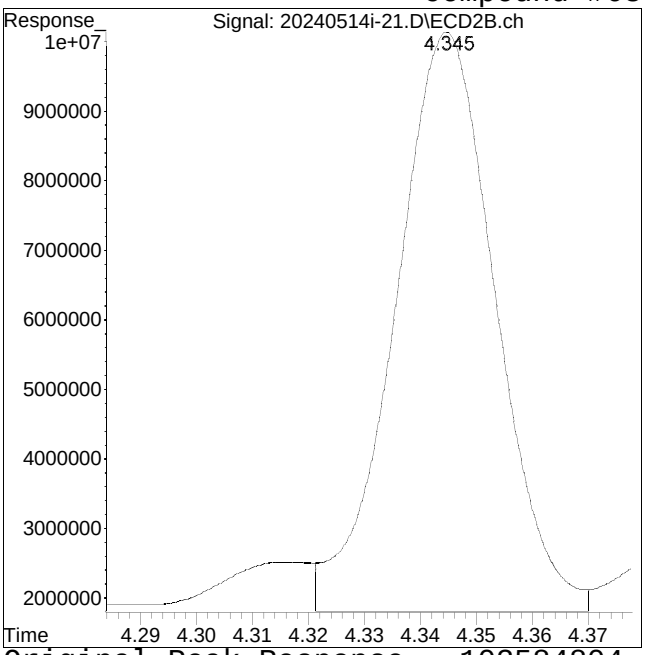
Manual Peak Response = 75737726 M4

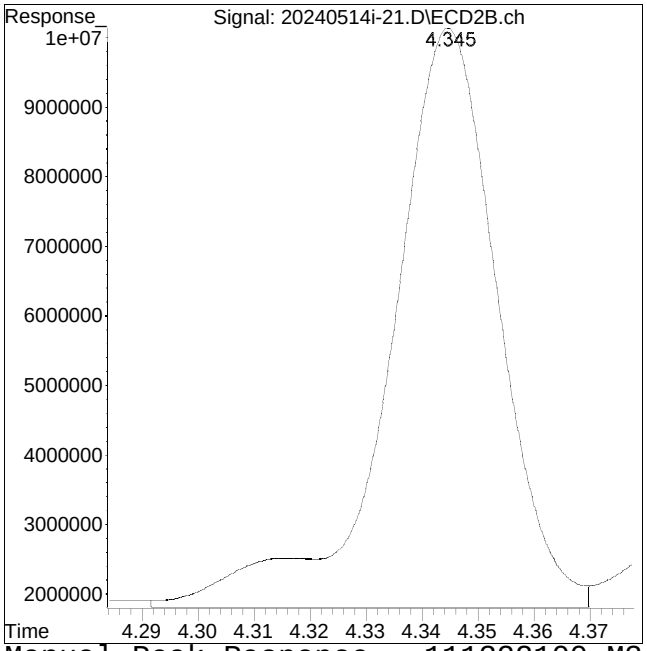
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-21.D Operator : pest20:peg
Date Inj'd : 5/14/2024 8:41 pm Instrument : PEST 20
Sample : cicvchlor,42e,,pp 11540 L1Quant Date : 5/17/2024 10:17 am

Compound #68: chlordane-3 #2





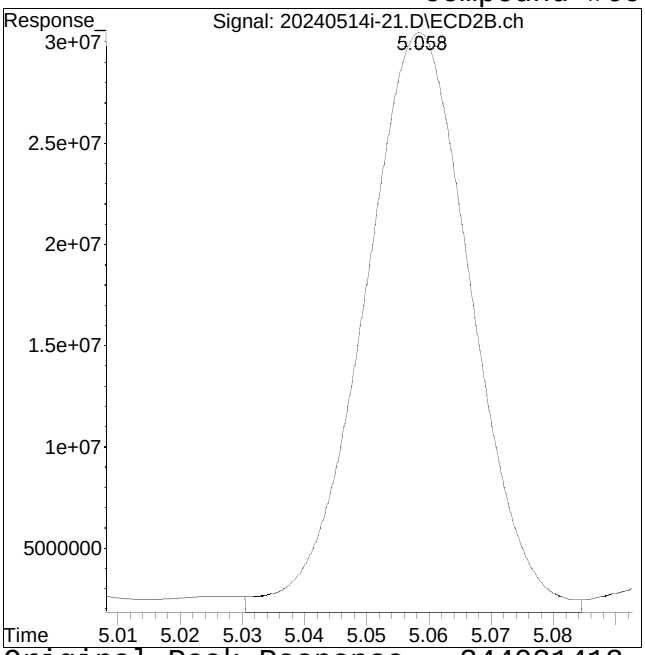
Original Peak Response = 103584804 Manual Peak Response = 111322100 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

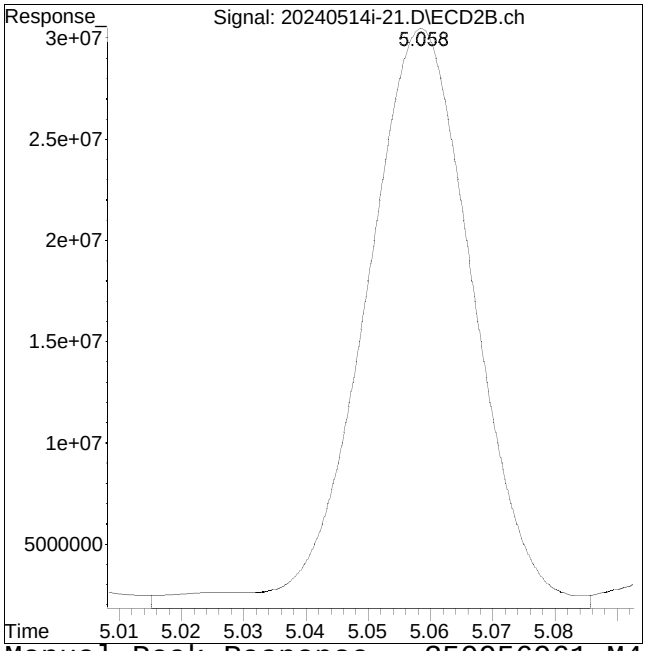
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-21.D
Date Inj'd : 5/14/2024 8:41 pm
Sample : cicvchlor,42e,,pp 11540 L1

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/17/2024 10:17 am

Compound #69: chlordane-4 #2



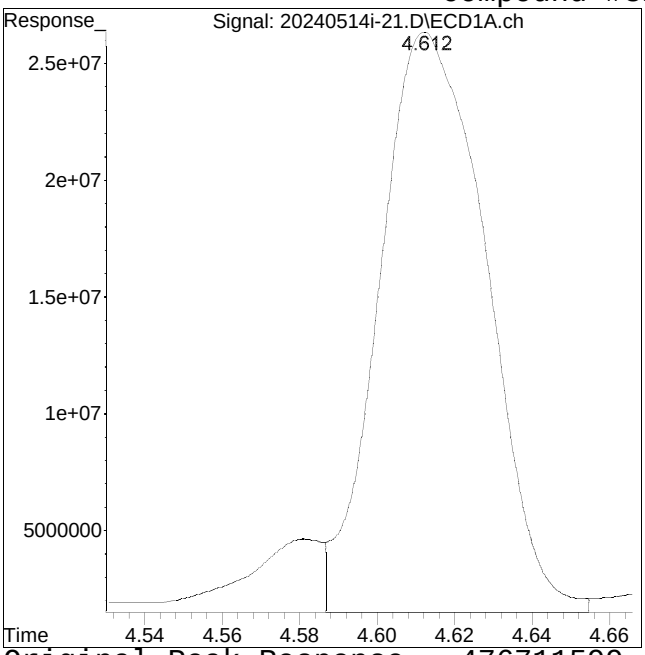


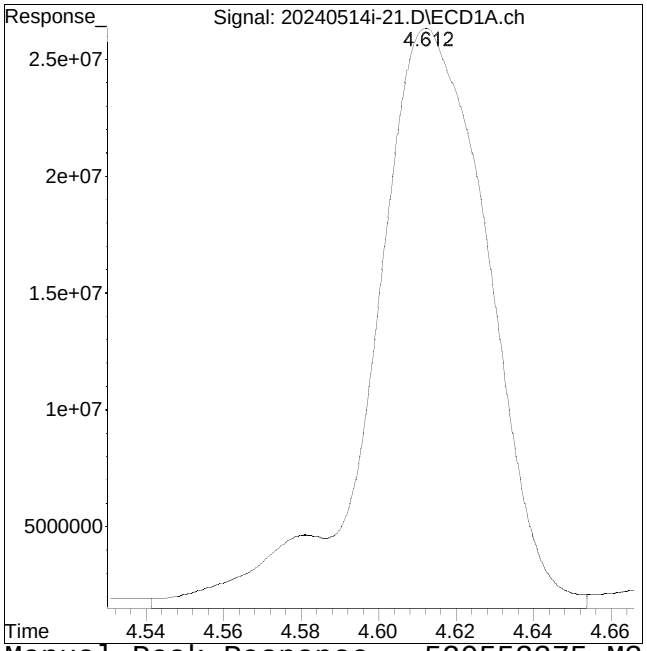
Original Peak Response = 344021413 Manual Peak Response = 350956961 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-21.D Operator : pest20:peg
Date Inj'd : 5/14/2024 8:41 pm Instrument : PEST 20
Sample : cicvchlor,42e,,pp 11540 L1Quant Date : 5/17/2024 10:17 am

Compound #32: chlordane-5





Original Peak Response = 476711599 Manual Peak Response = 520553375 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-22.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 08:53 pm
Operator : pest20:peg
Sample : il3tox,42e,,pp 11519 L0.02
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:30:50 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:30:40 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.933	1.972	52479086	70480409	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-22.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 08:53 pm
Operator : pest20:peg
Sample : il3tox,42e,,pp 11519 L0.02
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:30:50 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:30:40 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	5.498	5.992	1911650	1331270	21.867	21.875
35) l2	toxaphene-2	6.012	6.021	1338874	2048968	20.861	22.527
36) l2	toxaphene-4	6.104	6.326	1280482	2286209	24.357M3	21.621
37) l2	toxaphene-5	6.190	6.730	1959110	2478670	24.090	24.166
Sum	toxaphene-1			6490116	8145116	91.175	90.189
Average	toxaphene-1					22.794	22.547

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			6490116	8145116	91.175	90.189
Average	toxaphene-1					22.794	22.547

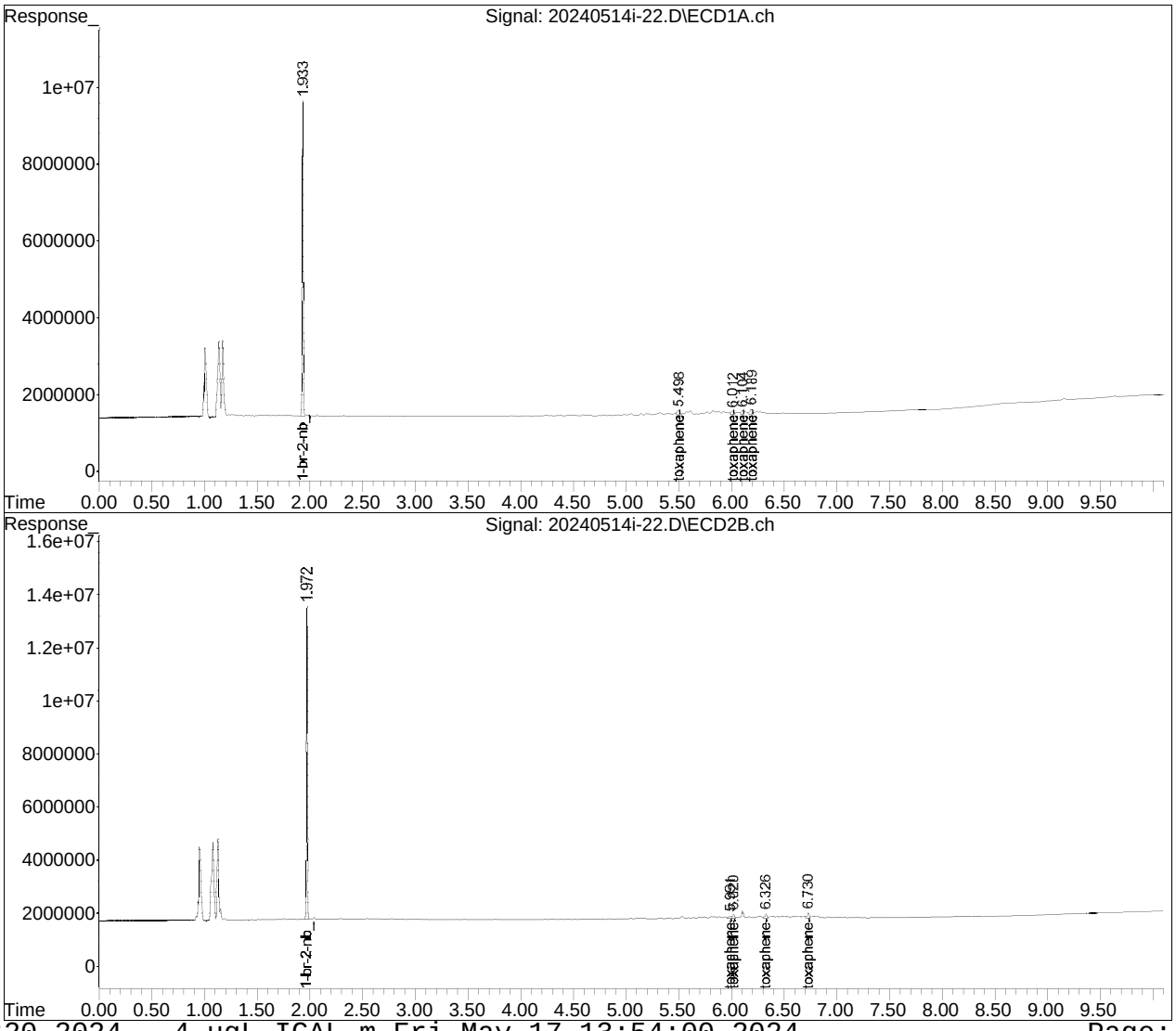
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-22.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 08:53 pm
Operator : pest20:peg
Sample : il3tox,42e,,pp 11519 L0.02
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:30:50 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:30:40 2024
Response via : Initial Calibration
Integrator: ChemStation

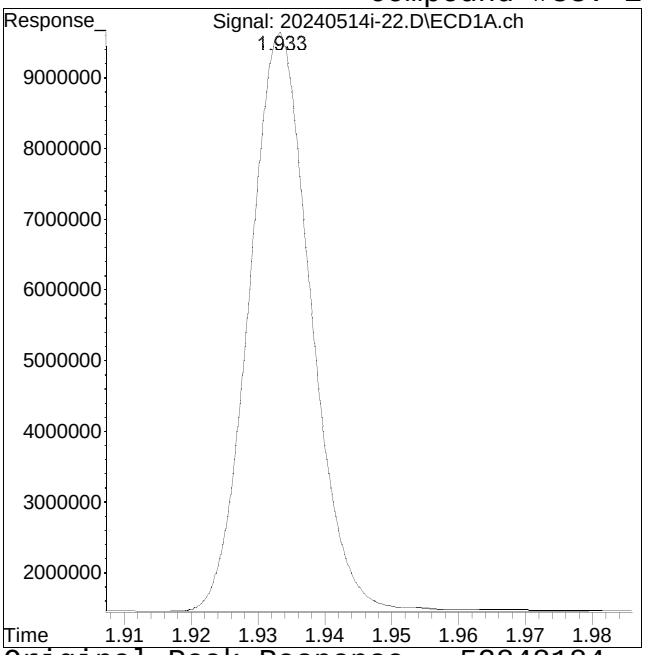
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



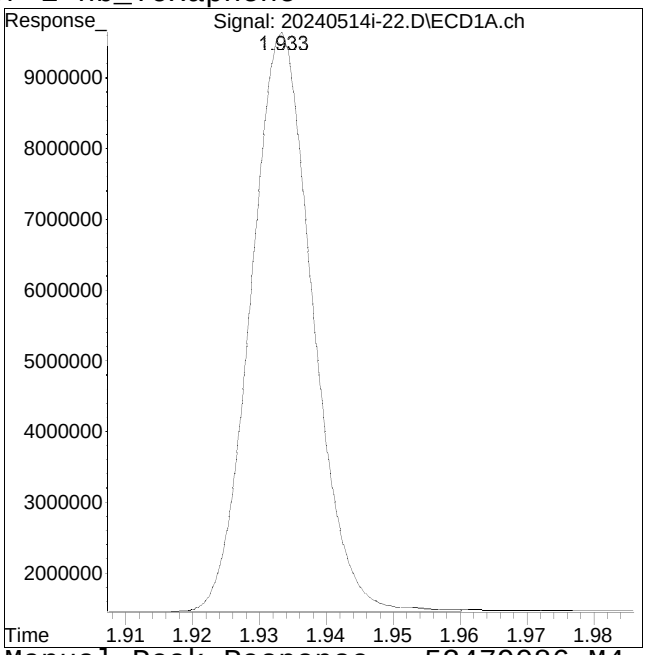
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-22.D Operator : pest20:peg
Date Inj'd : 5/14/2024 8:53 pm Instrument : PEST 20
Sample : il3tox,42e,,pp 11519 L0.02Quant Date : 5/17/2024 9:30 am

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 52848184



Manual Peak Response = 52479086 M4

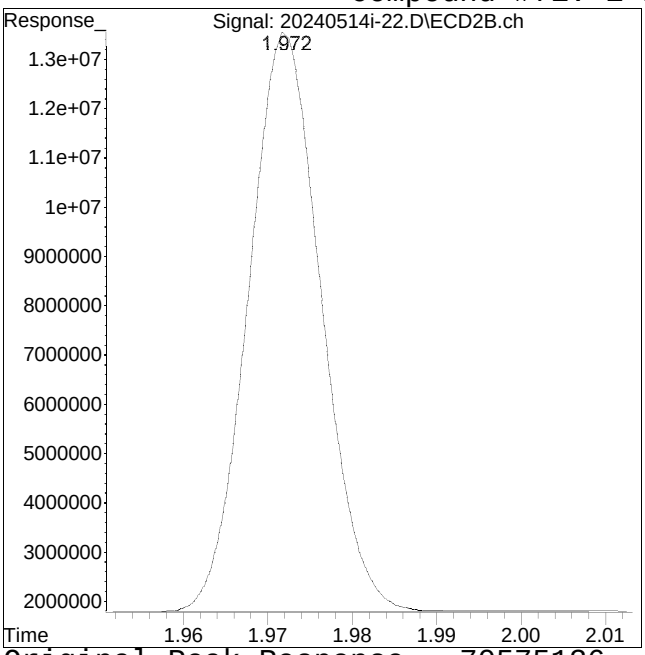
M4 = Poor automated baseline construction.

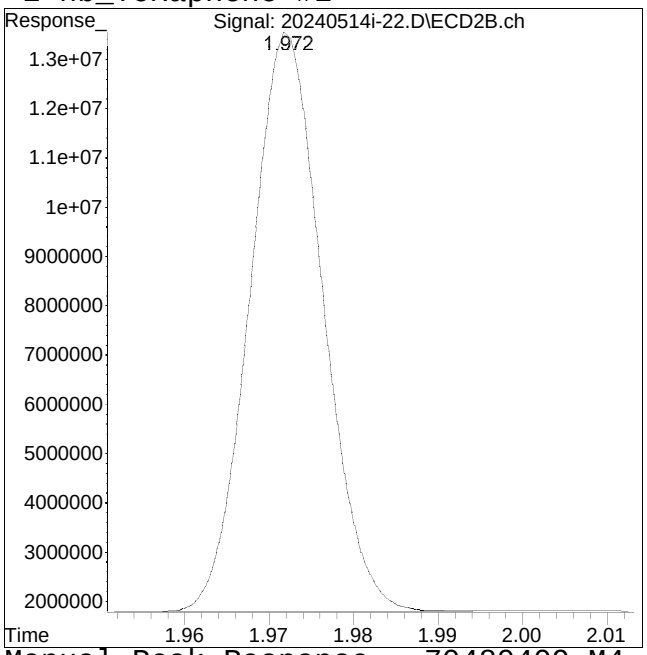
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-22.D
Date Inj'd : 5/14/2024 8:53 pm
Sample : il3tox,42e,,pp 11519 L0.02

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/17/2024 9:30 am

Compound #71: 1-br-2-nb_Toxaphene #2



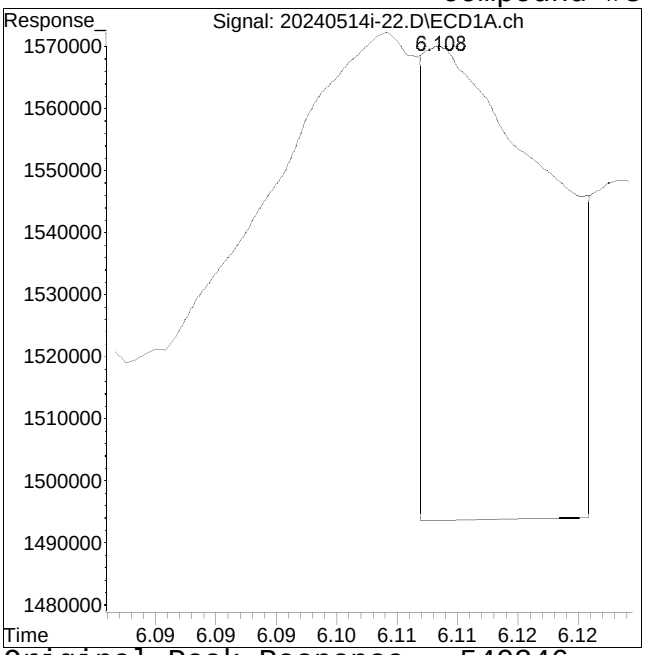


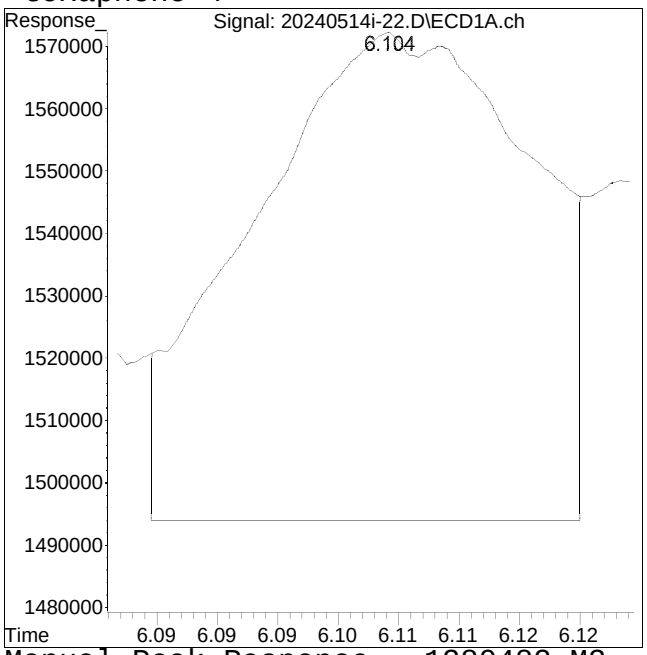
Original Peak Response = 70575136 Manual Peak Response = 70480409 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-22.D Operator : pest20:peg
Date Inj'd : 5/14/2024 8:53 pm Instrument : PEST 20
Sample : il3tox,42e,,pp 11519 L0.02Quant Date : 5/17/2024 9:30 am

Compound #36: toxaphene-4





Original Peak Response = 540346 Manual Peak Response = 1280482 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 09:06 pm
Operator : pest20:peg
Sample : il4tox,42e,,pp 11518 L0.1
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:28:31 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:28:20 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.933	1.972	52732378	70608244	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 09:06 pm
Operator : pest20:peg
Sample : il4tox,42e,,pp 11518 L0.1
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:28:31 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:28:20 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	5.496	5.991	9679574	6462273	112.825	108.540
35) l2	toxaphene-2	6.012	6.021	6738305	9698461	105.625	109.909
36) l2	toxaphene-4	6.108	6.327	5622595	11204040	112.567	107.953
37) l2	toxaphene-5	6.189	6.731	8616841	10791231	111.126	110.786
Sum	toxaphene-1			30657315	38156006	442.143	437.187
Average	toxaphene-1					110.536	109.297

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			30657315	38156006	442.143	437.187
Average	toxaphene-1					110.536	109.297

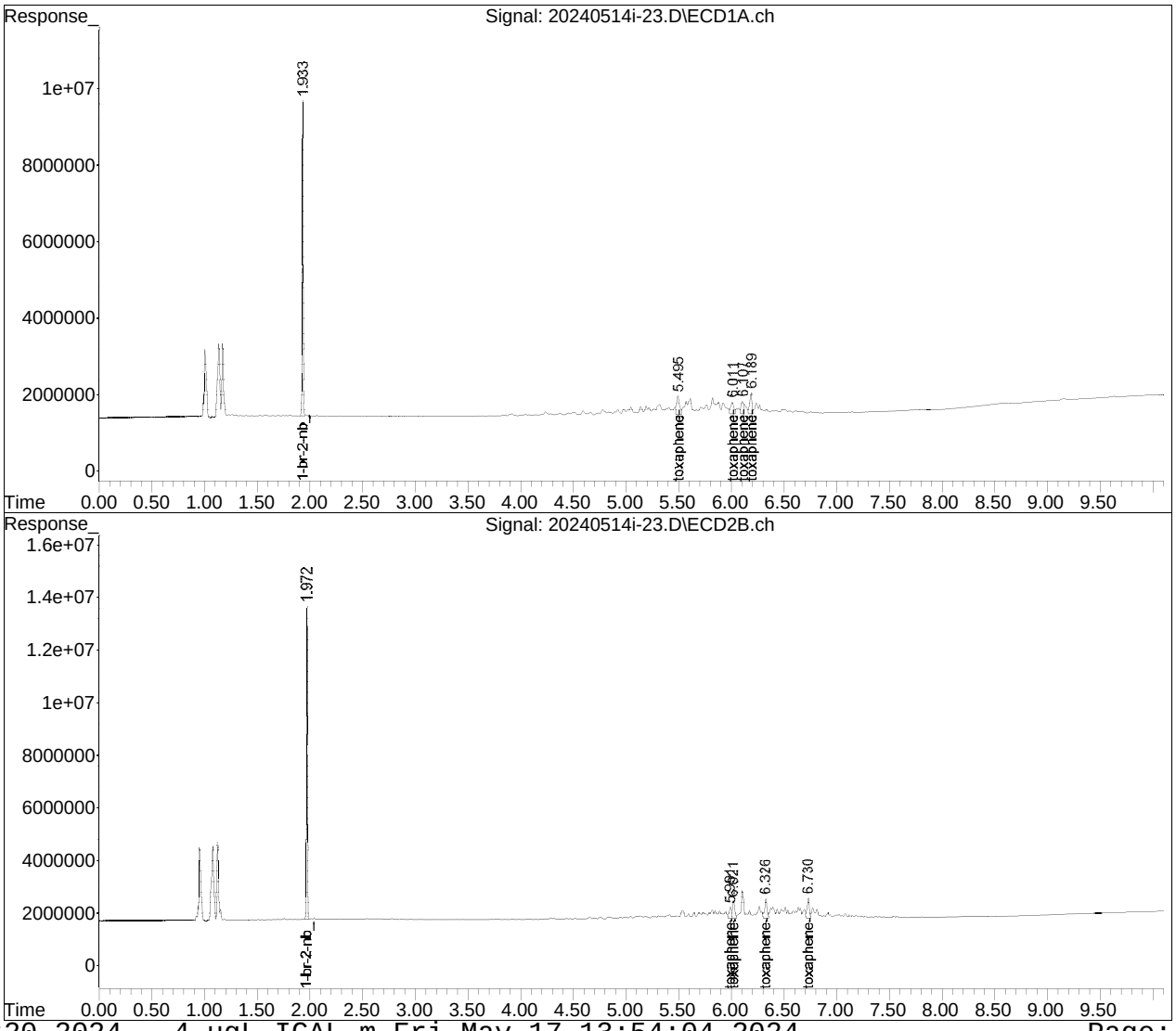
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 09:06 pm
Operator : pest20:peg
Sample : il4tox,42e,,pp 11518 L0.1
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:28:31 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:28:20 2024
Response via : Initial Calibration
Integrator: ChemStation

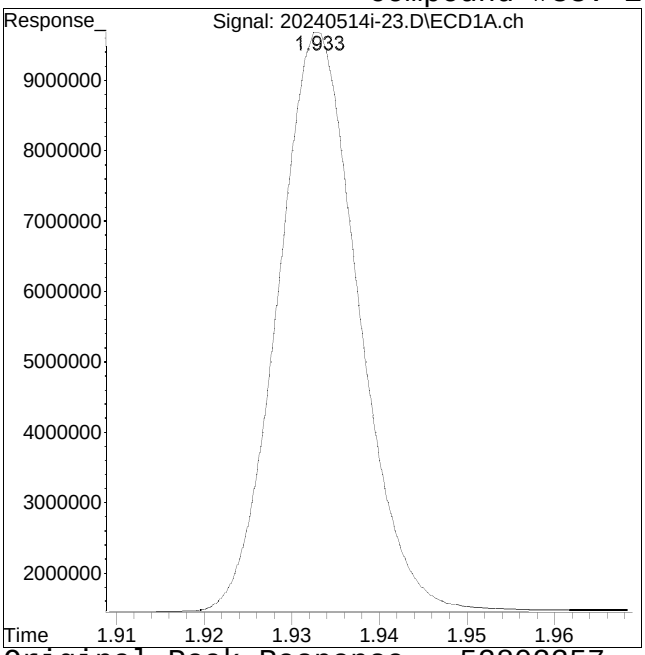
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



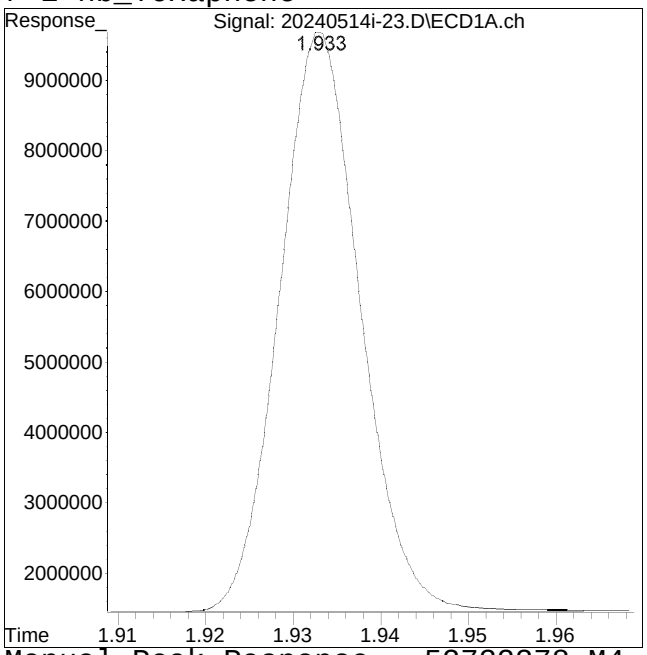
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-23.D Operator : pest20:peg
Date Inj'd : 5/14/2024 9:06 pm Instrument : PEST 20
Sample : il4tox,42e,,pp 11518 L0.1 Quant Date : 5/17/2024 9:28 am

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 52802357



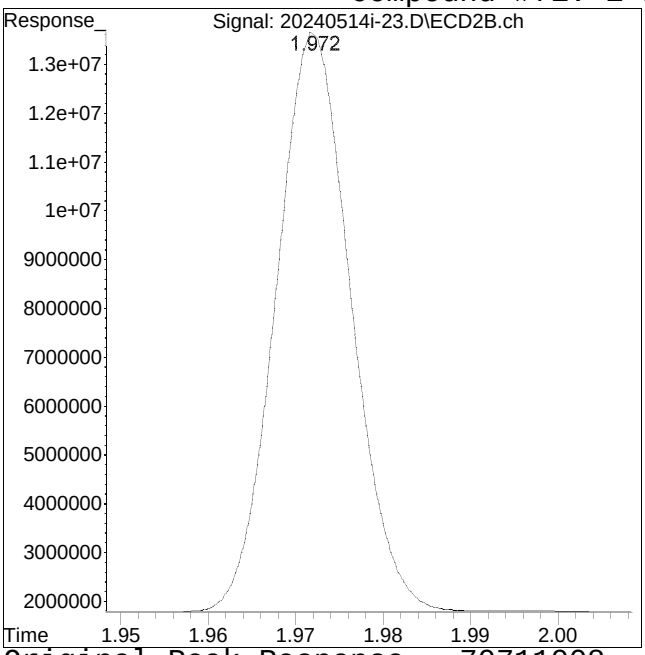
Manual Peak Response = 52732378 M4

M4 = Poor automated baseline construction.

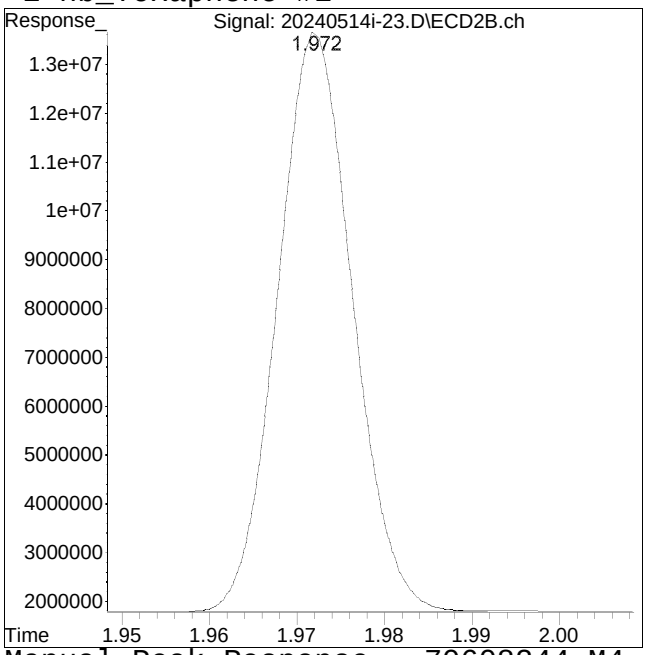
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-23.D Operator : pest20:peg
Date Inj'd : 5/14/2024 9:06 pm Instrument : PEST 20
Sample : il4tox,42e,,pp 11518 L0.1 Quant Date : 5/17/2024 9:28 am

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 70711008



Manual Peak Response = 70608244 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-24.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 09:18 pm
Operator : pest20:peg
Sample : il7tox,42e,,pp 11517 L1.0
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:26:28 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:26:17 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.933	1.972	53543771	71241408	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-24.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 09:18 pm
Operator : pest20:peg
Sample : il7tox,42e,,pp 11517 L1.0
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:26:28 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:26:17 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	5.496	5.992	86967749	59937583	1042.922	1026.991
35) l2	toxaphene-2	6.011	6.021	64934593	87788433	1021.602	1019.708
36) l2	toxaphene-4	6.106	6.327	49914762	103.8E6	1027.199	1018.462
37) l2	toxaphene-5	6.188	6.730	78134536	96919872	1030.602	1022.942
Sum	toxaphene-1			280.0E6	348.5E6	4122.326	4088.103
Average	toxaphene-1					1030.581	1022.026

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			280.0E6	348.5E6	4122.326	4088.103
Average	toxaphene-1					1030.581	1022.026

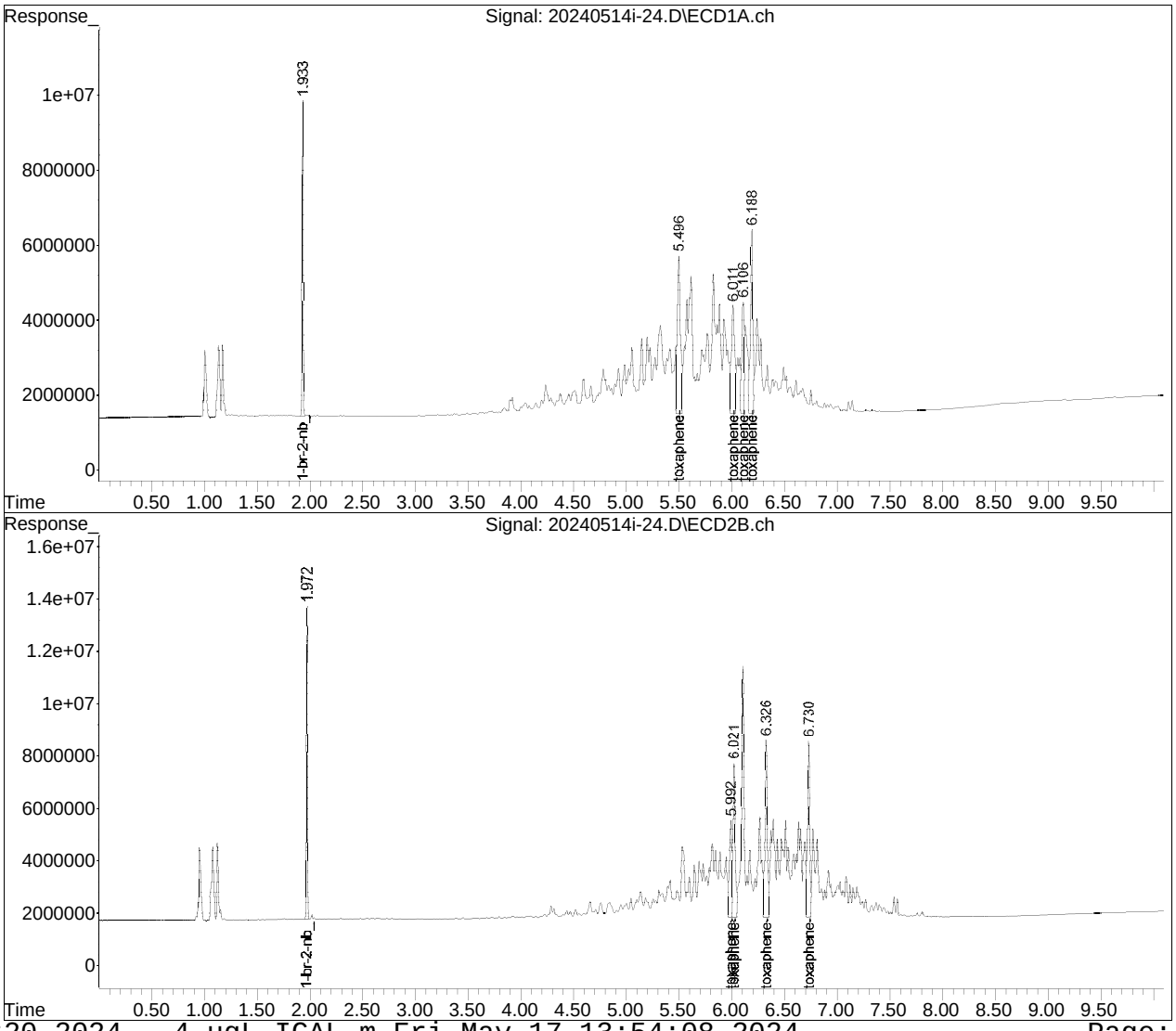
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-24.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 09:18 pm
Operator : pest20:peg
Sample : il7tox,42e,,pp 11517 L1.0
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:26:28 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:26:17 2024
Response via : Initial Calibration
Integrator: ChemStation

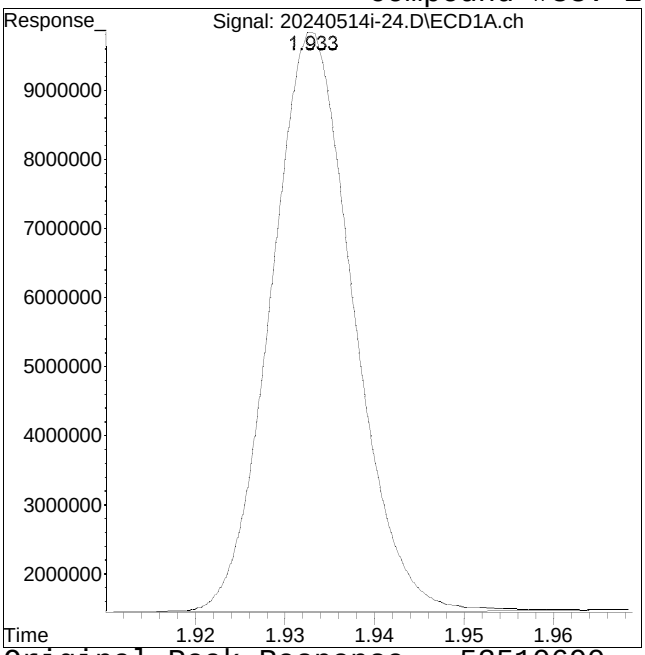
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



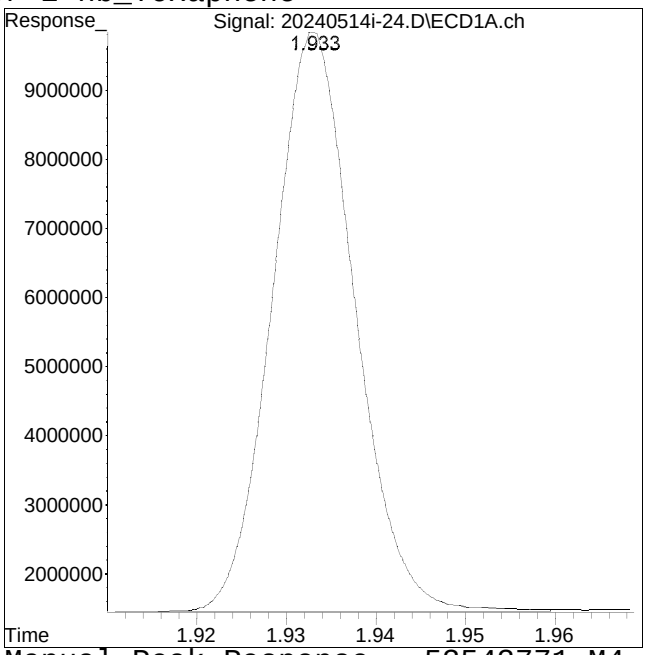
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-24.D Operator : pest20:peg
Date Inj'd : 5/14/2024 9:18 pm Instrument : PEST 20
Sample : il7tox,42e,,pp 11517 L1.0 Quant Date : 5/17/2024 9:26 am

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 53510690

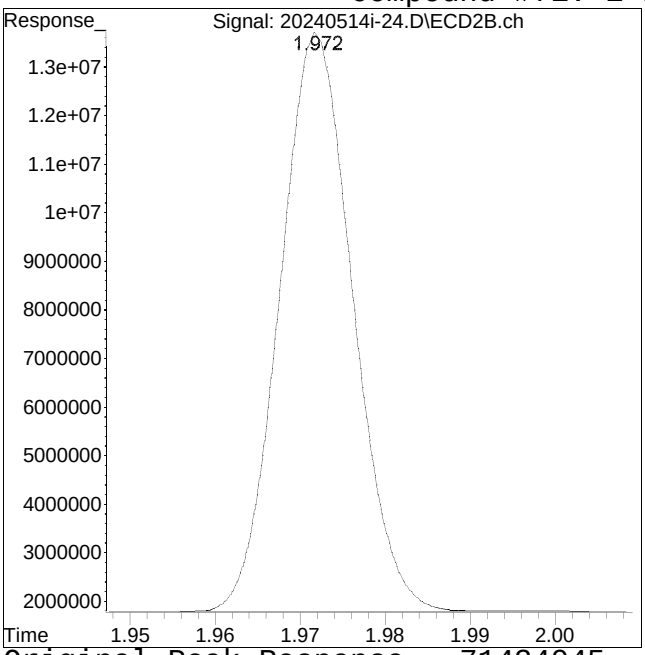


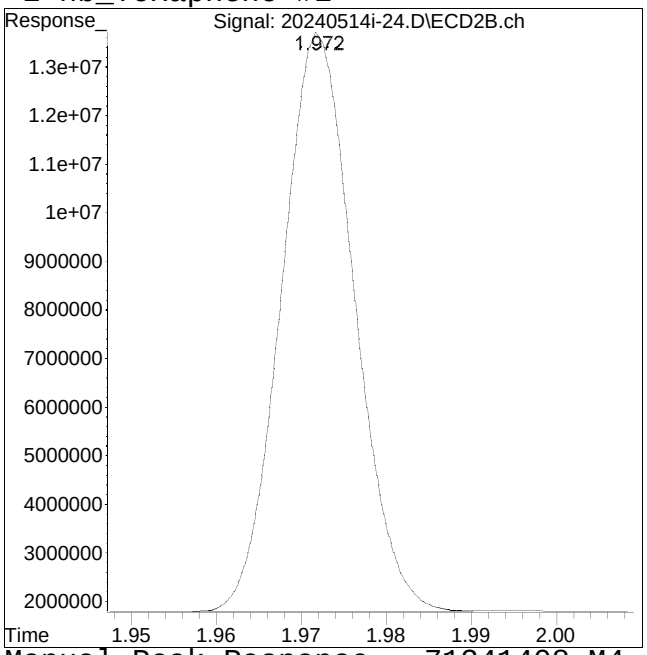
Manual Peak Response = 53543771 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-24.D Operator : pest20:peg
Date Inj'd : 5/14/2024 9:18 pm Instrument : PEST 20
Sample : il7tox,42e,,pp 11517 L1.0 Quant Date : 5/17/2024 9:26 am

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 71434045 Manual Peak Response = 71241408 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 09:31 pm
Operator : pest20:peg
Sample : il8tox,42e,,pp 11516 L2.0
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:18:32 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:18:20 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.933	1.972	54873522	72652594	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 09:31 pm
Operator : pest20:peg
Sample : il8tox,42e,,pp 11516 L2.0
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:18:32 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:18:20 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	5.496	5.991	170.0E6	116.7E6	2000.000	2000.000
35) l2	toxaphene-2	6.011	6.020	128.0E6	173.9E6	2000.000	2000.000
36) l2	toxaphene-4	6.106	6.326	99178575	204.7E6	2000.000	2000.000
37) l2	toxaphene-5	6.188	6.730	154.1E6	191.0E6	2000.000	2000.000
Sum	toxaphene-1			551.2E6	686.3E6	8000.000	8000.000
Average	toxaphene-1					2000.000	2000.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			551.2E6	686.3E6	8000.000	8000.000
Average	toxaphene-1					2000.000	2000.000

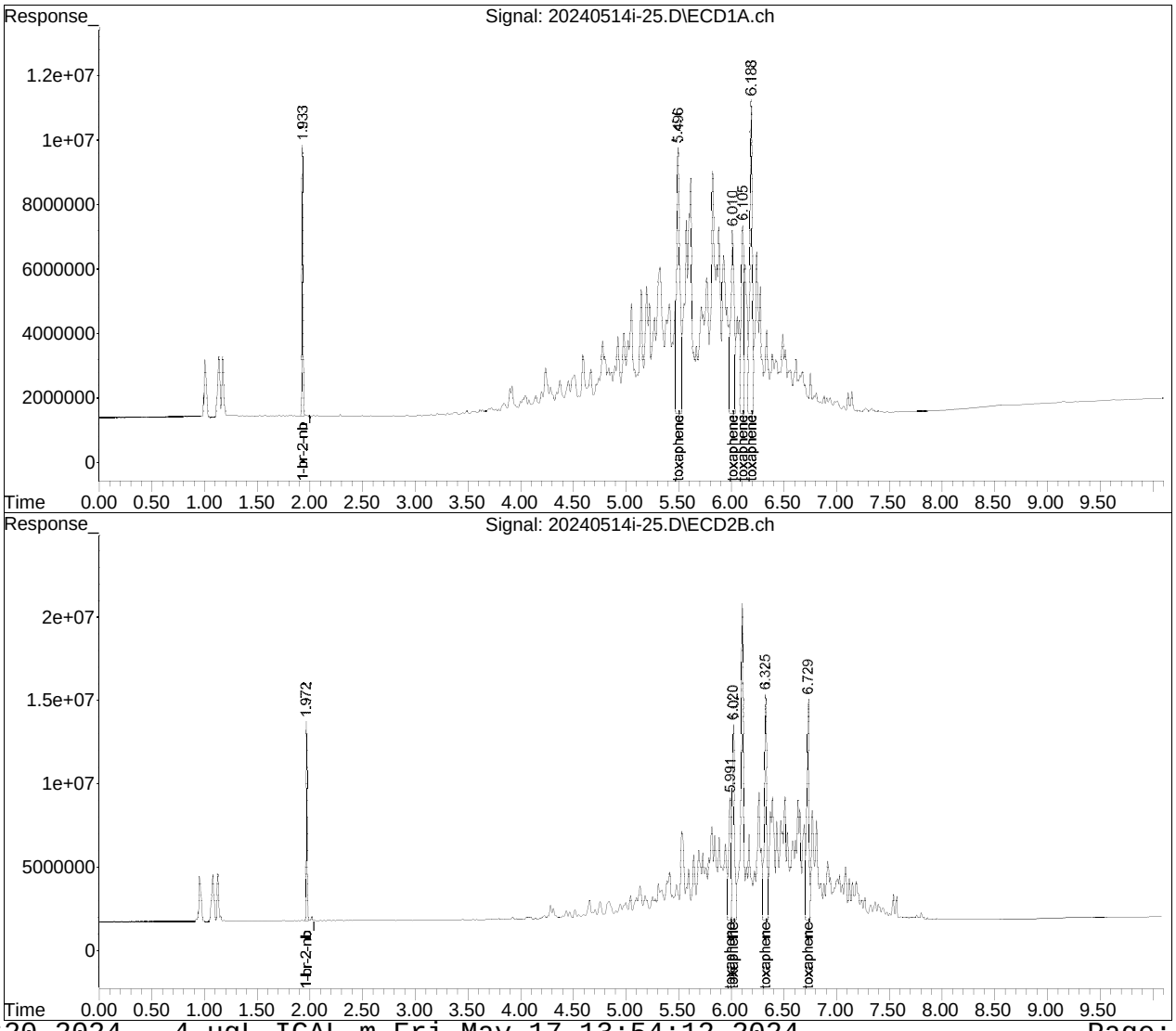
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 09:31 pm
Operator : pest20:peg
Sample : il8tox,42e,,pp 11516 L2.0
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:18:32 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:18:20 2024
Response via : Initial Calibration
Integrator: ChemStation

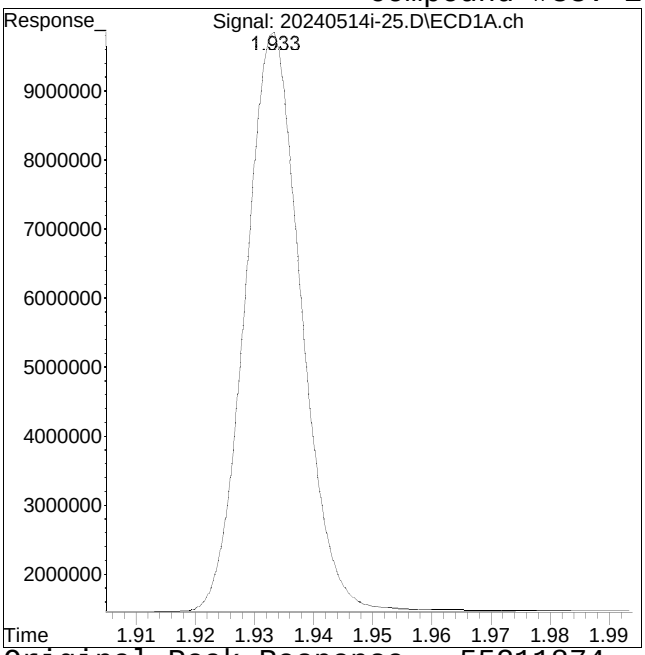
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



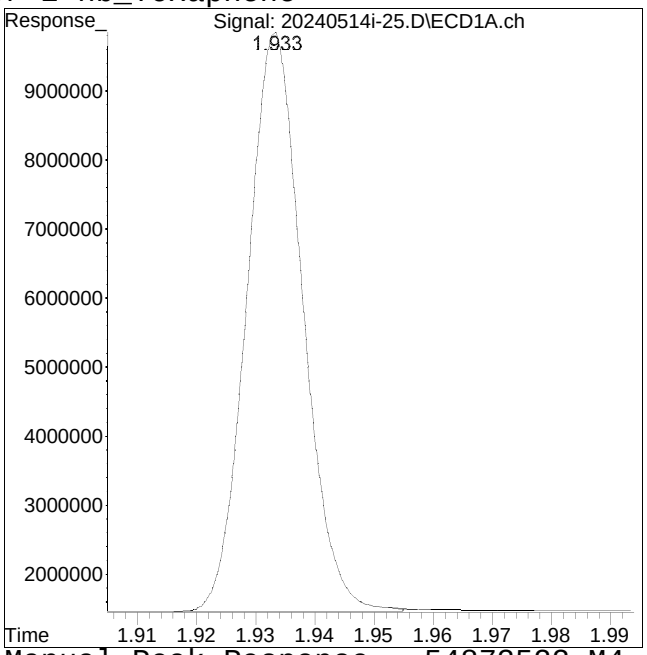
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-25.D Operator : pest20:peg
Date Inj'd : 5/14/2024 9:31 pm Instrument : PEST 20
Sample : il8tox,42e,,pp 11516 L2.0 Quant Date : 5/17/2024 9:18 am

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 55211874



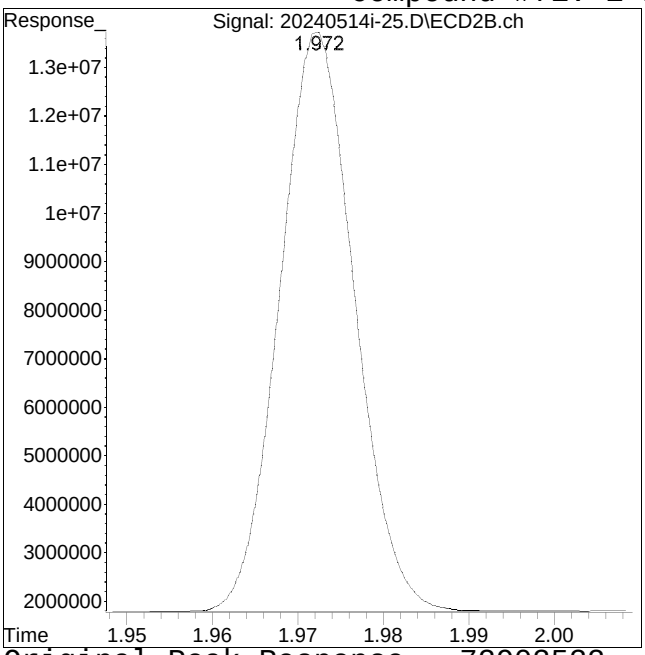
Manual Peak Response = 54873522 M4

M4 = Poor automated baseline construction.

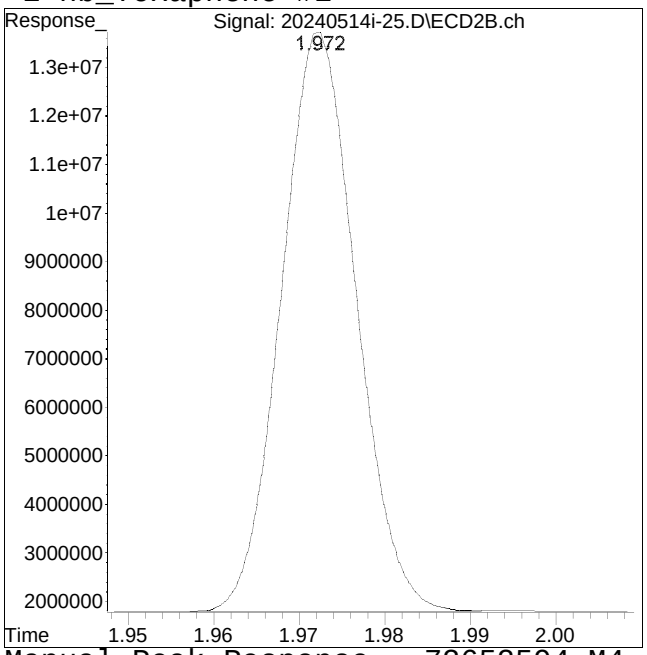
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-25.D Operator : pest20:peg
Date Inj'd : 5/14/2024 9:31 pm Instrument : PEST 20
Sample : il8tox,42e,,pp 11516 L2.0 Quant Date : 5/17/2024 9:18 am

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 72903532



Manual Peak Response = 72652594 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-26.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 09:43 pm
Operator : pest20:peg
Sample : il9tox,42e,,pp 11510 L5.0
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:20:09 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:19:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.934	1.972	56086366	72405325	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-26.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 09:43 pm
Operator : pest20:peg
Sample : il9tox,42e,,pp 11510 L5.0
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:20:09 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:19:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	5.496	5.991	420.4E6	294.3E6	4918.961	5029.212
35) l2	toxaphene-2	6.011	6.020	331.6E6	433.1E6	5035.339	4999.152
36) l2	toxaphene-4	6.105	6.326	248.7E6	516.5E6	4952.498	5031.279
37) l2	toxaphene-5	6.189	6.730	388.4E6	476.0E6	4966.228	5001.039
Sum	toxaphene-1			1389.1E6	1719.9E6	19873.026	20060.681
Average	toxaphene-1					4968.256	5015.170

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			1389.1E6	1719.9E6	19873.026	20060.681
Average	toxaphene-1					4968.256	5015.170

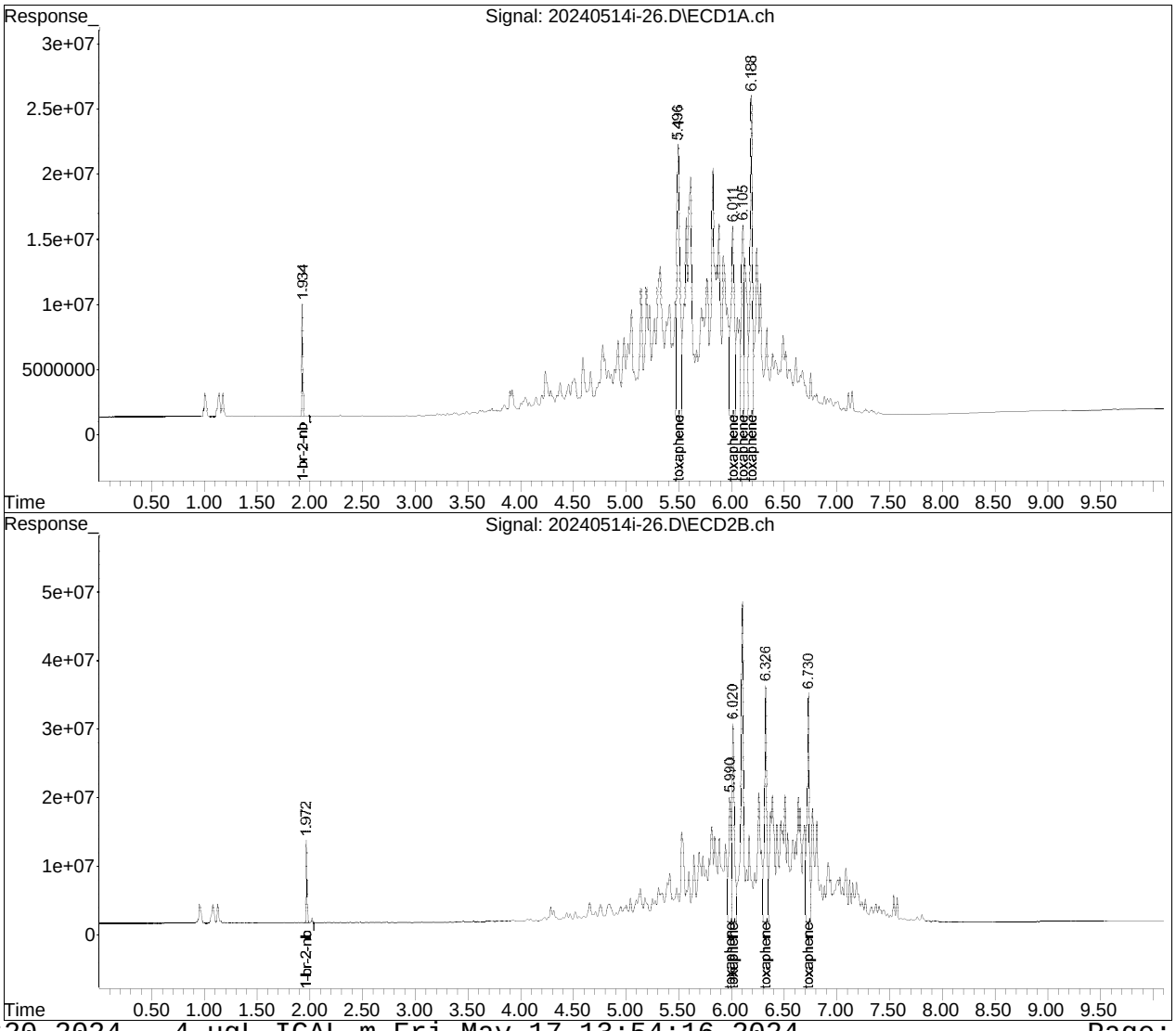
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-26.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 09:43 pm
Operator : pest20:peg
Sample : il9tox,42e,,pp 11510 L5.0
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 09:20:09 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:19:58 2024
Response via : Initial Calibration
Integrator: ChemStation

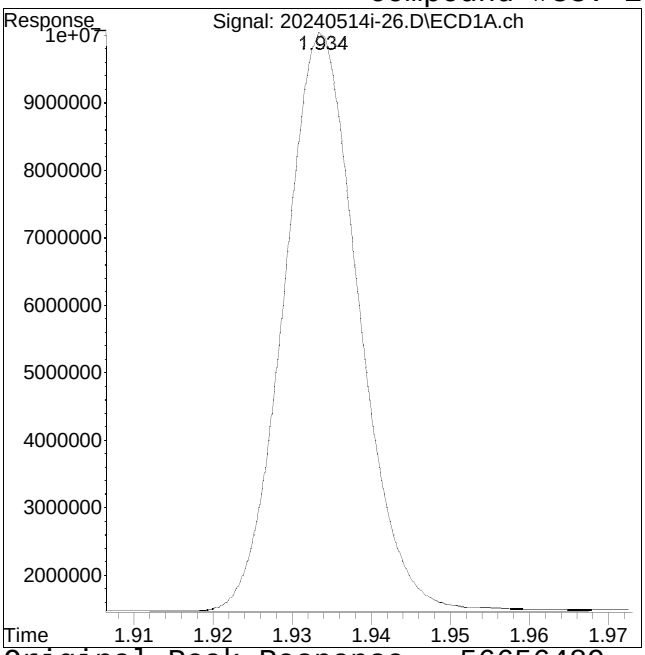
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



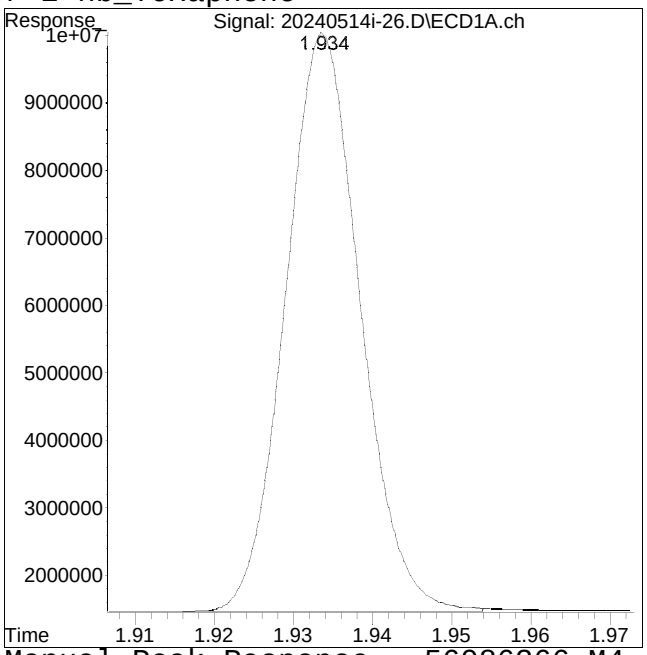
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-26.D Operator : pest20:peg
Date Inj'd : 5/14/2024 9:43 pm Instrument : PEST 20
Sample : il9tox,42e,,pp 11510 L5.0 Quant Date : 5/17/2024 9:20 am

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 56656489



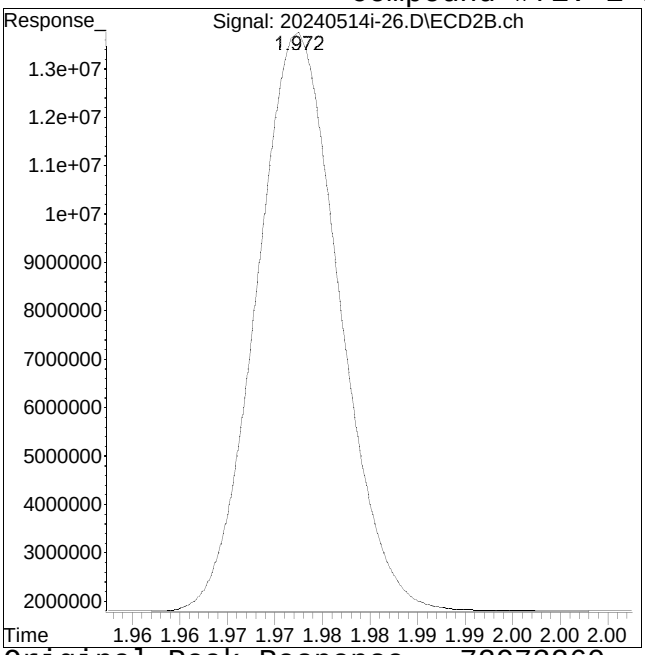
Manual Peak Response = 56086366 M4

M4 = Poor automated baseline construction.

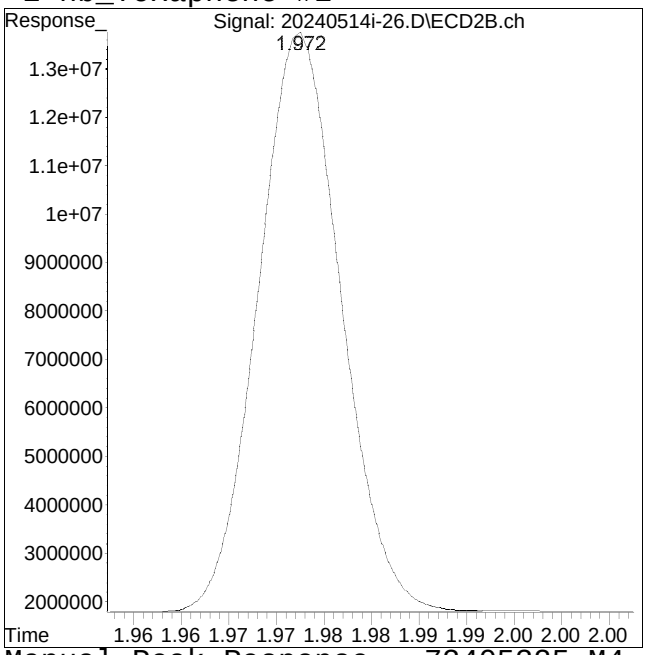
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-26.D Operator : pest20:peg
Date Inj'd : 5/14/2024 9:43 pm Instrument : PEST 20
Sample : il9tox,42e,,pp 11510 L5.0 Quant Date : 5/17/2024 9:20 am

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 72973260



Manual Peak Response = 72405325 M4

M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-27.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 14 May 2024 09:56 pm
Operator : pest20:peg
Sample   : cicvtox,42e,,pp 11541 L2.0ICV
Misc   : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 27   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 10:20:42 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:52:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	102	0.00
34	l2	toxaphene-1		0.042	0.036	14.3	94	0.00
35	l2	toxaphene-2		0.031	0.031	0.0	105	0.00
36	l2	toxaphene-4		0.025	0.020	20.0#	90	0.00
37	l2	toxaphene-5		0.039	0.034	12.8	98	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	100	0.00
34	l2	toxaphene-1		0.022	0.021	4.5	102	0.00
35	l2	toxaphene-2		0.032	0.031	3.1	100	0.00
36	l2	toxaphene-4		0.038	0.034	10.5	93	0.00
37	l2	toxaphene-5		0.036	0.034	5.6	100	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.94#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.150	0.000	100.0#	0#	-2.41#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.68#
4		alpha-BHC		1.370	0.000	100.0#	0#	-2.80#
5		gamma-BHC (lindane)		1.310	0.000	100.0#	0#	-3.04#
6		beta-BHC	*	50.000	0.000	100.0#	0	-3.11#
7		delta-BHC		1.132	0.000	100.0#	0#	-3.26#
8		Heptachlor		1.317	0.000	100.0#	0#	-3.45#
9		Aldrin		1.296	0.000	100.0#	0#	-3.73#
10		Alachlor		0.174	0.000	100.0#	0#	-3.87#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.97#
12		Heptachlor Epoxide		1.267	0.000	100.0#	0#	-4.34#
13		gamma-Chlordane (trans)		1.158	0.000	100.0#	0#	-4.48#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-27.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 14 May 2024 09:56 pm
Operator : pest20:peg
Sample   : cicvtox,42e,,pp 11541 L2.0ICV
Misc   : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 27   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 10:20:42 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:52:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)		1.322	0.000	100.0#	0#	-4.63#
15		4,4'-DDE		1.213	0.000	100.0#	0#	-4.73#
16		Endosulfan I		1.204	0.000	100.0#	0#	-4.78#
17		Dieldrin		1.227	0.000	100.0#	0#	-5.04#
18		Endrin		1.228	0.000	100.0#	0#	-5.28#
19		4,4'-DDD		0.864	0.000	100.0#	0#	-5.38#
20		Endosulfan II		1.044	0.000	100.0#	0#	-5.51#
21		4,4'-DDT		0.935	0.000	100.0#	0#	-5.65#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.90#
23		Methoxychlor		0.480	0.000	100.0#	0#	-6.11#
24		Mirex	*	50.000	0.000	100.0#	0	-6.18#
25		Endosulfan Sulfate		0.858	0.000	100.0#	0#	-6.28#
26		Endrin Ketone		0.968	0.000	100.0#	0#	-6.50#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.29#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.94#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-3.38#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.86#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-4.48#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.61#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.97#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.109	0.000	100.0#	0#	-2.58#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.95#
4		alpha-BHC		1.369	0.000	100.0#	0#	-3.07#
5		gamma-BHC (lindane)		1.336	0.000	100.0#	0#	-3.39#
6		beta-BHC	*	50.000	0.000	100.0#	0	-3.46#
7		delta-BHC		1.265	0.000	100.0#	0#	-3.76#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-27.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 14 May 2024 09:56 pm
Operator : pest20:peg
Sample   : cicvtox,42e,,pp 11541 L2.0ICV
Misc   : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 27   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 10:20:42 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:52:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8		Heptachlor		1.260	0.000	100.0#	0#	-3.83#
9		Aldrin		1.185	0.000	100.0#	0#	-4.18#
10		Alachlor		0.188	0.000	100.0#	0#	-4.05#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-4.44#
12		Heptachlor Epoxide		1.198	0.000	100.0#	0#	-4.84#
13		gamma-Chlordane (trans)		1.060	0.000	100.0#	0#	-5.06#
14		alpha-Chlordane (cis)		1.173	0.000	100.0#	0#	-5.22#
15		4,4'-DDE		1.143	0.000	100.0#	0#	-5.40#
16		Endosulfan I		1.098	0.000	100.0#	0#	-5.28#
17		Dieldrin		1.122	0.000	100.0#	0#	-5.55#
18		Endrin		1.138	0.000	100.0#	0#	-5.84#
19		4,4'-DDD		0.922	0.000	100.0#	0#	-5.95#
20		Endosulfan II		1.035	0.000	100.0#	0#	-6.03#
21		4,4'-DDT		1.005	0.000	100.0#	0#	-6.22#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-6.32#
23		Methoxychlor		0.583	0.000	100.0#	0#	-6.77#
24		Mirex	*	50.000	0.000	100.0#	0	-6.92#
25		Endosulfan Sulfate		0.976	0.000	100.0#	0#	-6.54#
26		Endrin Ketone		1.124	0.000	100.0#	0#	-6.95#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.83#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.97#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-3.68#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-4.34#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-5.06#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-5.22#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-27.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 09:56 pm
Operator : pest20:peg
Sample : cicvtox,42e,,pp 11541 L2.0ICV
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 10:20:42 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:52:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.933	1.972	55015839	71138149	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-27.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 09:56 pm
Operator : pest20:peg
Sample : cicvtox,42e,,pp 11541 L2.0ICV
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 10:20:42 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:52:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	5.496	5.991	159.9E6	119.0E6	1745.064	1937.976
35) l2	toxaphene-2	6.011	6.020	134.7E6	173.6E6	2001.653	1891.510
36) l2	toxaphene-4	6.106	6.327	88781399	190.9E6	1610.888	1789.058
37) l2	toxaphene-5	6.188	6.730	150.2E6	191.6E6	1761.932	1851.150
Sum	toxaphene-1			533.6E6	675.3E6	7119.537	7469.693
Average	toxaphene-1					1779.884	1867.423

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			533.6E6	675.3E6	7119.537	7469.693
Average	toxaphene-1					1779.884	1867.423

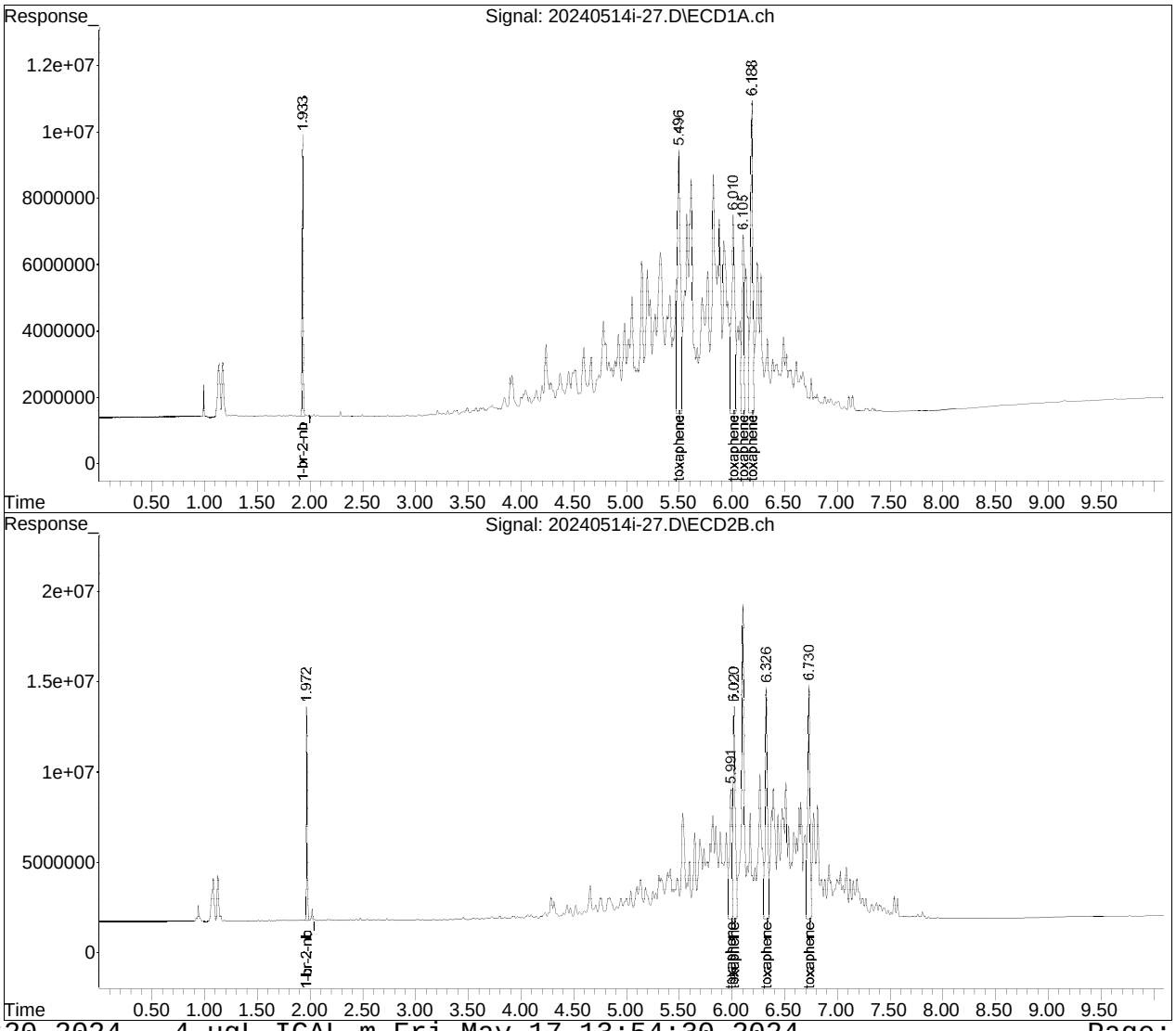
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240514ical\
Data File : 20240514i-27.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 09:56 pm
Operator : pest20:peg
Sample : cicvtox,42e,,pp 11541 L2.0ICV
Misc : wg1922578, (Sig #1); ical (Sig #2)
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 17 10:20:42 2024
Quant Method : I:\PEST\Pest20\2024\240514ical\pest20_2024_05_14_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri May 17 09:52:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

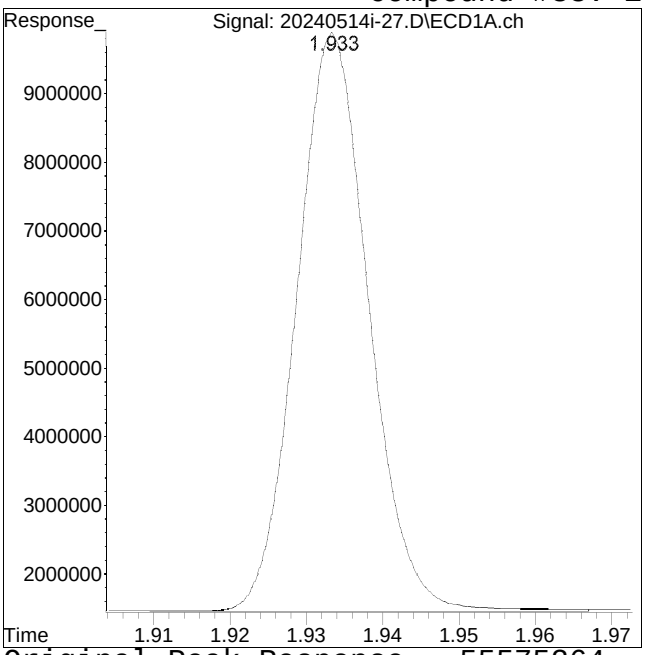


Manual Integration Report

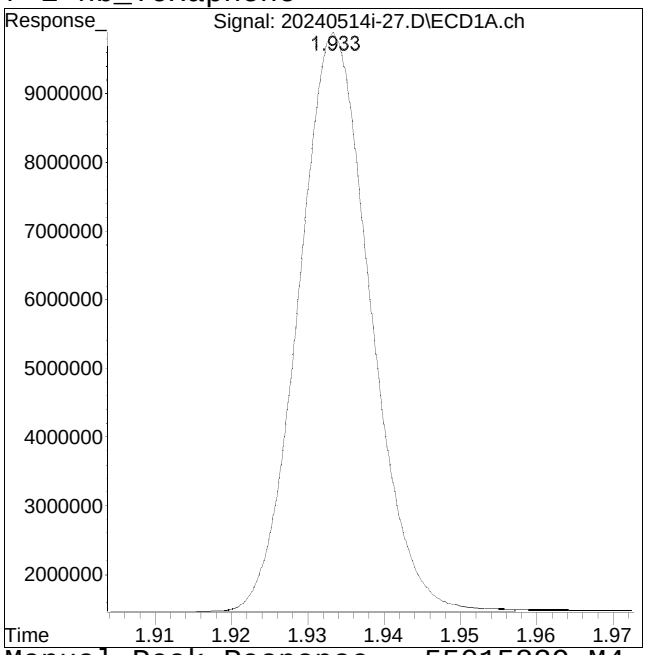
Data Path : I:\PEST\Pest20\2024\240514Q
Data File : 20240514i-27.D
Date Inj'd : 5/14/2024 9:56 pm
Sample : cicvtox,42e,,pp 11541 L2.0

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:peg
Instrument : PEST 20
Quant Date : 5/17/2024 10:20 am

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 55575264



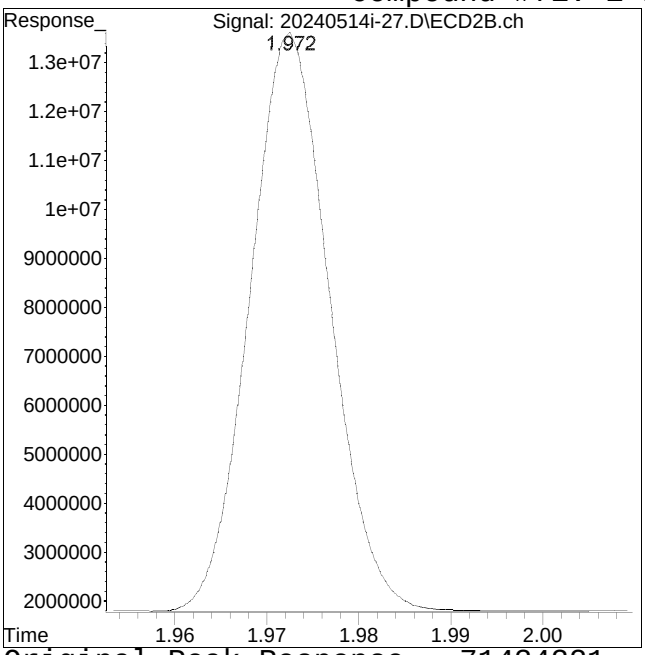
Manual Peak Response = 55015839 M4

M4 = Poor automated baseline construction.

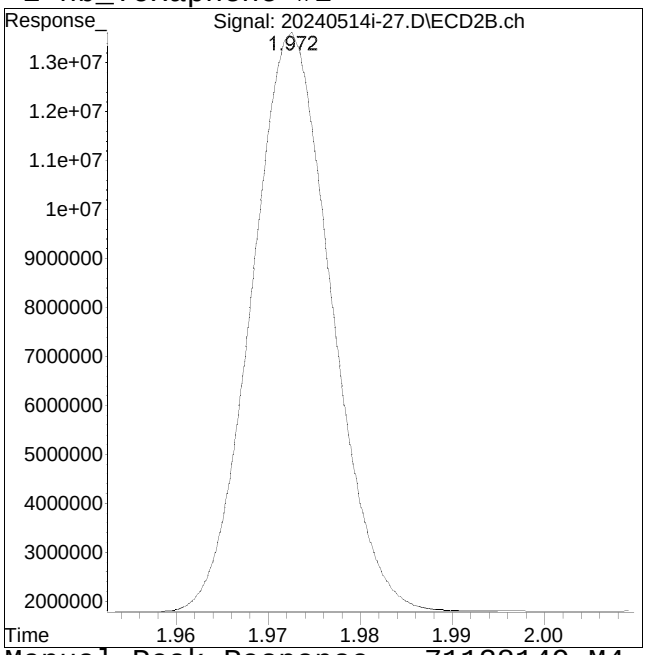
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240514QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240514i-27.D Operator : pest20:peg
Date Inj'd : 5/14/2024 9:56 pm Instrument : PEST 20
Sample : cicvtox,42e,,pp 11541 L2.0Quant Date : 5/17/2024 10:20 am

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 71434221



Manual Peak Response = 71138149 M4

M4 = Poor automated baseline construction.

Evaluate Relative Error Report PEST 20

Method Path : I:\PEST\Pest20\2024\240514ical\
Method File : pest20_2024_05_14_ugL_ICAL.m
Title : pest
Last Update : Fri May 17 13:43:56 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
3	Hexachlorobenzene	L	ug/l	50.0	50.765	1.5	2.00	1.715	-14.2
6	beta-BHC	L	ug/l	50.0	50.608	1.2	2.00	1.667	-16.6
11	Chlorpyrifos	L	ug/l	50.0	51.842	3.7	2.00	1.508	-24.6
22	Endrin Aldehyde	L	ug/l	50.0	48.512	-3.0	1.00	0.946	-5.4
24	Mirex	L	ug/l	50.0	51.697	3.4	2.00	1.570	-21.5
27	S Decachlorobiphenyl	L	ug/l	50.0	51.136	2.3	2.00	1.535	-23.3
29	L1 chlordane-1	L	ug/l	1000.0	989.132	-1.1	10.00	8.101	-19.0
30	L1 chlordane-3	L	ug/l	1000.0	997.373	-0.3	10.00	7.472	-25.3
31	L1 chlordane-4	L	ug/l	1000.0	991.557	-0.8	10.00	9.434	-5.7
32	L1 chlordane-5	L	ug/l	1000.0	990.973	-0.9	10.00	9.458	-5.4
41	Hexachlorobenzene #2	L	ug/l	50.0	50.457	0.9	2.00	1.763	-11.9
44	beta-BHC #2	L	ug/l	50.0	50.352	0.7	2.00	1.743	-12.8
49	Chlorpyrifos #2	L	ug/l	50.0	52.295	4.6	2.00	1.489	-25.5
60	Endrin Aldehyde #2	L	ug/l	50.0	50.039	0.1	1.00	0.874	-12.6
62	Mirex #2	L	ug/l	50.0	51.238	2.5	2.00	1.588	-20.6
65	S Decachlorobiphenyl #2	L	ug/l	50.0	51.811	3.6	2.00	1.616	-19.2
67	L1 chlordane-1 #2	L	ug/l	1000.0	1021.084	2.1	10.00	7.849	-21.5
68	L1 chlordane-3 #2	L	ug/l	1000.0	1031.924	3.2	10.00	6.771	-32.3
69	L1 chlordane-4 #2	L	ug/l	1000.0	1022.384	2.2	10.00	8.312	-16.9
70	L1 chlordane-5 #2	L	ug/l	1000.0	1022.207	2.2	10.00	8.130	-18.7

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
3	Hexachlorobenzene	Linear	0.999561	0.000000	1.03167	0.0492709
6	beta-BHC	Linear	0.999401	0.000000	0.547482	0.0269029
11	Chlorpyrifos	Linear	0.998346	0.000000	0.484311	0.0246562
22	Endrin Aldehyde	Linear	0.999615	0.000000	0.783862	0.00468386
24	Mirex	Linear	0.998655	0.000000	0.853661	0.0477522
27	S Decachlorobiphenyl	Linear	0.998849	0.000000	0.970509	0.0491769
29	L1 chlordane-1	Linear	0.999362	0.000000	0.0363565	0.00909371
30	L1 chlordane-3	Linear	0.997804	0.000000	0.0447355	0.0160594
31	L1 chlordane-4	Linear	0.999889	0.000000	0.156312	0.0311584
32	L1 chlordane-5	Linear	0.999872	0.000000	0.239563	0.0496742
41	Hexachlorobenzene #2	Linear	0.999660	0.000000	1.02442	0.0399769
44	beta-BHC #2	Linear	0.999616	0.000000	0.561108	0.0212836
49	Chlorpyrifos #2	Linear	0.998274	0.000000	0.522609	0.0324291
60	Endrin Aldehyde #2	Linear	0.999388	0.000000	0.787992	0.0116459
62	Mirex #2	Linear	0.999042	0.000000	0.768833	0.0408152
65	S Decachlorobiphenyl #2	Linear	0.998997	0.000000	0.854822	0.0414337
67	L1 chlordane-1 #2	Linear	0.997835	0.000000	0.031762	0.00855743
68	L1 chlordane-3 #2	Linear	0.994806	0.000000	0.0377554	0.014248
69	L1 chlordane-4 #2	Linear	0.998398	0.000000	0.126272	0.029914
70	L1 chlordane-5 #2	Linear	0.998070	0.000000	0.100021	0.0242267

Continuing Calibration

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: PEST20	**Calibration Date**	: 06/05/24 18:58		
Lab File ID	: 20240605b-03	**Init. Calib. Date(s)**	: 05/14/24	05/14/24	
Sample No	: WG1930283-1	**Init. Calib. Times**	: 16:57	21:43	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	116	0
2,4,5,6-Tetrachloro-m-xylen	1.15	1.037	-	9.8	20	117	0
Hexachlorobenzene	50	51.27	-	-2.5	20	118	0
alpha-BHC	1.37	1.328	-	3.1	20	118	0
gamma-BHC (lindane)	1.31	1.196	-	8.7	20	116	0
beta-BHC	50	51.82	-	-3.6	20	119	0
delta-BHC	1.132	1.193	-	-5.4	20	126	0
Heptachlor	1.317	1.142	-	13.3	20	114	0
Aldrin	1.296	1.17	-	9.7	20	115	0
Alachlor	0.174	0.183	-	-5.2	20	125	0
Chlorpyrifos	50	51.313	-	-2.6	20	115	0
Heptachlor Epoxide	1.267	1.074	-	15.2	20	112	0
gamma-Chlordane (trans)	1.158	1.136	-	1.9	20	130	0
alpha-Chlordane (cis)	1.322	1.125	-	14.9	20	113	0
4,4'-DDE	1.213	1.141	-	5.9	20	120	0
Endosulfan I	1.204	1.026	-	14.8	20	110	0
Dieldrin	1.227	1.174	-	4.3	20	123	0
Endrin	1.228	1.093	-	11	20	114	0
4,4'-DDD	0.864	0.968	-	-12	20	134	0
Endosulfan II	1.044	0.987	-	5.5	20	120	0
4,4'-DDT	0.935	0.936	-	-0.1	20	124	0
Endrin Aldehyde	50	46.689	-	6.6	20	112	0
Methoxychlor	0.48	0.517	-	-7.7	20	127	0
Mirex	50	48.744	-	2.5	20	110	0
Endosulfan Sulfate	0.858	0.928	-	-8.2	20	134	0
Endrin Ketone	0.968	1.095	-	-13.1	20	140	0
Decachlorobiphenyl	50	29.669	-	40.7*	20	69	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2430219		
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116		
Instrument ID	: PEST20	**Calibration Date**	: 06/05/24 18:58		
Lab File ID	: 20240605b-03	**Init. Calib. Date(s)**	: 05/14/24	05/14/24	
Sample No	: WG1930283-1	**Init. Calib. Times**	: 16:57	21:43	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	137	0
2,4,5,6-Tetrachloro-m-xyl	1.109	0.994	-	10.4	20	134	0
Hexachlorobenzene	50	49.167	-	1.7	20	134	0
alpha-BHC	1.369	1.313	-	4.1	20	137	0
gamma-BHC (lindane)	1.336	1.194	-	10.6	20	135	0
beta-BHC	50	50.059	-	-0.1	20	137	0
delta-BHC	1.265	1.201	-	5.1	20	137	0
Heptachlor	1.26	1.106	-	12.2	20	134	0
Aldrin	1.185	1.1	-	7.2	20	136	0
Alachlor	0.188	0.169	-	10.1	20	137	0
Chlorpyrifos	50	50.022	-	-0	20	132	0
Heptachlor Epoxide	1.198	1.045	-	12.8	20	133	0
gamma-Chlordane (trans)	1.06	1.068	-	-0.8	20	154	0
alpha-Chlordane (cis)	1.173	1.043	-	11.1	20	135	0
4,4'-DDE	1.143	1.04	-	9	20	132	0
Endosulfan I	1.098	0.979	-	10.8	20	135	0
Dieldrin	1.122	1.11	-	1.1	20	146	0
Endrin	1.138	1.053	-	7.5	20	136	0
4,4'-DDD	0.922	0.909	-	1.4	20	142	0
Endosulfan II	1.035	0.953	-	7.9	20	138	0
4,4'-DDT	1.005	0.908	-	9.7	20	132	0
Endrin Aldehyde	50	43.994	-	12	20	121	0
Methoxychlor	0.583	0.501	-	14.1	20	130	0
Mirex	50	49.301	-	1.4	20	132	0
Endosulfan Sulfate	0.976	0.896	-	8.2	20	139	0
Endrin Ketone	1.124	1.092	-	2.8	20	144	0
Decachlorobiphenyl	50	27.73	-	44.5*	20	75	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience		**Lab Number**	: L2430219	
Project Name	: HUNTINGTON READY MIXED		**Project Number**	: 20116	
Instrument ID	: PEST20		**Calibration Date**	: 06/05/24 19:10	
Lab File ID	: 20240605b-04		**Init. Calib. Date(s)**	: 05/14/24	05/14/24
Sample No	: WG1930283-2		**Init. Calib. Times**	: 16:57	21:43
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	111	0
chlordane-1	1000	989.481	-	1.1	20	108	0
chlordane-3	1000	984.31	-	1.6	20	107	0
chlordane-4	1000	979.536	-	2	20	107	0
chlordane-5	1000	989.222	-	1.1	20	108	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience		**Lab Number**	: L2430219	
Project Name	: HUNTINGTON READY MIXED		**Project Number**	: 20116	
Instrument ID	: PEST20		**Calibration Date**	: 06/05/24 19:10	
Lab File ID	: 20240605b-04		**Init. Calib. Date(s)**	: 05/14/24	05/14/24
Sample No	: WG1930283-2		**Init. Calib. Times**	: 16:57	21:43
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	118	0
chlordane-1	1000	1099.299	-	-9.9	20	126	0
chlordane-3	1000	1027.477	-	-2.7	20	116	0
chlordane-4	1000	1057.424	-	-5.7	20	121	0
chlordane-5	1000	1054.827	-	-5.5	20	121	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience		**Lab Number**	: L2430219	
Project Name	: HUNTINGTON READY MIXED		**Project Number**	: 20116	
Instrument ID	: PEST20		**Calibration Date**	: 06/05/24 19:23	
Lab File ID	: 20240605b-05		**Init. Calib. Date(s)**	: 05/14/24	05/14/24
Sample No	: WG1930283-3		**Init. Calib. Times**	: 16:57	21:43
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	112	0
toxaphene-1	0.042	0.039	-	7.1	20	112	0
toxaphene-2	0.031	0.033	-	-6.5	20	126	0
toxaphene-4	0.025	0.022	-	12	20	108	0
toxaphene-5	0.039	0.037	-	5.1	20	117	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience		**Lab Number**	: L2430219	
Project Name	: HUNTINGTON READY MIXED		**Project Number**	: 20116	
Instrument ID	: PEST20		**Calibration Date**	: 06/05/24 19:23	
Lab File ID	: 20240605b-05		**Init. Calib. Date(s)**	: 05/14/24	05/14/24
Sample No	: WG1930283-3		**Init. Calib. Times**	: 16:57	21:43
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	128	0
toxaphene-1	0.022	0.022	-	0	20	138	0
toxaphene-2	0.032	0.033	-	-3.1	20	137	0
toxaphene-4	0.038	0.036	-	5.3	20	127	0
toxaphene-5	0.036	0.035	-	2.8	20	134	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 05 Jun 2024 06:58 pm
Operator : pest20:jag
Sample   : wg1930283-1,42,, pest11595 (Sig #1); pest11595 (Sig #2)
Misc   : wg1930283,,ical21144
ALS Vial : 3   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 05 19:22:22 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 19:22:13 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	116	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.150	1.037	9.8	117	0.00
3		Hexachlorobenzene	*	50.000	51.270	-2.5	118	0.00
4		alpha-BHC		1.370	1.328	3.1	118	0.00
5		gamma-BHC (lindane)		1.310	1.196	8.7	116	0.00
6		beta-BHC	*	50.000	51.820	-3.6	119	0.00
7		delta-BHC		1.132	1.193	-5.4	126	0.00
8		Heptachlor		1.317	1.142	13.3	114	0.00
9		Aldrin		1.296	1.170	9.7	115	0.00
10		Alachlor		0.174	0.183	-5.2	125	0.00
11		Chlorpyrifos	*	50.000	51.313	-2.6	115	0.00
12		Heptachlor Epoxide		1.267	1.074	15.2	112	0.00
13		gamma-Chlordane (trans)		1.158	1.136	1.9	130	0.00
14		alpha-Chlordane (cis)		1.322	1.125	14.9	113	0.00
15		4,4'-DDE		1.213	1.141	5.9	120	0.00
16		Endosulfan I		1.204	1.026	14.8	110	0.00
17		Dieldrin		1.227	1.174	4.3	123	0.00
18		Endrin		1.228	1.093	11.0	114	0.00
19		4,4'-DDD		0.864	0.968	-12.0	134	0.00
20		Endosulfan II		1.044	0.987	5.5	120	0.00
21		4,4'-DDT		0.935	0.936	-0.1	124	0.00
22		Endrin Aldehyde	*	50.000	46.689	6.6	112	0.00
23		Methoxychlor		0.480	0.517	-7.7	127	0.00
24		Mirex	*	50.000	48.744	2.5	110	0.00
25		Endosulfan Sulfate		0.858	0.928	-8.2	134	0.00
26		Endrin Ketone		0.968	1.095	-13.1	140	0.00
27	s	Decachlorobiphenyl	*	50.000	29.669	40.7#	69	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 05 Jun 2024 06:58 pm
Operator : pest20:jag
Sample   : wg1930283-1,42,, pest11595 (Sig #1); pest11595 (Sig #2)
Misc   : wg1930283,,ical21144
ALS Vial : 3   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 05 19:22:22 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 19:22:13 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	137	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.109	0.994	10.4	134	0.00
3		Hexachlorobenzene	*	50.000	49.167	1.7	134	0.00
4		alpha-BHC		1.369	1.313	4.1	137	0.00
5		gamma-BHC (lindane)		1.336	1.194	10.6	135	0.00
6		beta-BHC	*	50.000	50.059	-0.1	137	0.00
7		delta-BHC		1.265	1.201	5.1	137	0.00
8		Heptachlor		1.260	1.106	12.2	134	0.00
9		Aldrin		1.185	1.100	7.2	136	0.00
10		Alachlor		0.188	0.169	10.1	137	0.00
11		Chlorpyrifos	*	50.000	50.022	-0.0	132	0.00
12		Heptachlor Epoxide		1.198	1.045	12.8	133	0.00
13		gamma-Chlordane (trans)		1.060	1.068	-0.8	154#	0.00
14		alpha-Chlordane (cis)		1.173	1.043	11.1	135	0.00
15		4,4'-DDE		1.143	1.040	9.0	132	0.00
16		Endosulfan I		1.098	0.979	10.8	135	0.00
17		Dieldrin		1.122	1.110	1.1	146	0.00
18		Endrin		1.138	1.053	7.5	136	0.00
19		4,4'-DDD		0.922	0.909	1.4	142	0.00
20		Endosulfan II		1.035	0.953	7.9	138	0.00
21		4,4'-DDT		1.005	0.908	9.7	132	0.00
22		Endrin Aldehyde	*	50.000	43.994	12.0	121	0.00
23		Methoxychlor		0.583	0.501	14.1	130	0.00
24		Mirex	*	50.000	49.301	1.4	132	0.00
25		Endosulfan Sulfate		0.976	0.896	8.2	139	0.00
26		Endrin Ketone		1.124	1.092	2.8	144	0.00
27	s	Decachlorobiphenyl	*	50.000	27.730	44.5#	75	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 05 Jun 2024 06:58 pm
Operator : pest20:jag
Sample   : wg1930283-1,42,, pest11595 (Sig #1); pest11595 (Sig #2)
Misc   : wg1930283,,ical21144
ALS Vial : 3   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 05 19:22:22 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 19:22:13 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.88#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-3.30#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.77#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-4.38#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-4.51#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.88#
34	l2	toxaphene-1		0.042	0.000	100.0#	0#	-5.41#
35	l2	toxaphene-2		0.031	0.000	100.0#	0#	-5.93#
36	l2	toxaphene-4		0.025	0.000	100.0#	0#	-6.03#
37	l2	toxaphene-5		0.039	0.000	100.0#	0#	-6.11#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.93#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-3.60#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-4.26#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-4.97#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-5.13#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.93#
34	l2	toxaphene-1		0.022	0.000	100.0#	0#	-5.92#
35	l2	toxaphene-2		0.032	0.000	100.0#	0#	-5.95#
36	l2	toxaphene-4		0.038	0.000	100.0#	0#	-6.26#
37	l2	toxaphene-5		0.036	0.000	100.0#	0#	-6.66#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 06:58 pm
Operator : pest20:jag
Sample : wg1930283-1,42,, pest11595 (Sig #1); pest11595 (Sig #2)
Misc : wg1930283,,ical21144
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 05 19:22:22 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 19:22:13 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.883	1.925	60467879	94939114	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.349	2.519	125.4E6	188.8E6	45.052	44.813M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		90.10%	89.63%
27) s	Decachlorobi	7.221	7.774	72617101	93951570	29.669	27.730
	Spiked Amount 50.000	Range 30 - 150		Recovery =		59.34%	55.46%
	Target Compounds						
3)	Hexachlorobe	2.612	2.889	130.9E6	195.1E6	51.270M3	49.167M4
4)	alpha-BHC	2.734	3.001	160.6E6	249.2E6	48.466M4	47.936M4
5)	gamma-BHC (l	2.973	3.319	144.7E6	226.8E6	45.637M3	44.698M4
6)	beta-BHC	3.042	3.393	70247381	108.7E6	51.820M4	50.059M4
7)	delta-BHC	3.188	3.682	144.3E6	228.1E6	52.674M4	47.494M4
8)	Heptachlor	3.373	3.750	138.1E6	210.0E6	43.327M4	43.890M4
9)	Aldrin	3.645	4.092	141.5E6	208.8E6	45.158M4	46.414M4
10)	Alachlor	3.785	3.974	22161354	32168773	52.609	45.032M4
11)	Chlorpyrifos	3.887	4.350	61599246	102.4E6	51.313	50.022M4
12)	Heptachlor E	4.247	4.745	129.9E6	198.5E6	42.407	43.645

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 06:58 pm
Operator : pest20:jag
Sample : wg1930283-1,42,, pest11595 (Sig #1); pest11595 (Sig #2)
Misc : wg1930283,,ical21144
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 05 19:22:22 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 19:22:13 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13)	gamma-Chlord	4.383	4.969	137.4E6	202.7E6	49.063	50.380M4
14)	alpha-Chlord	4.528	5.133	136.0E6	198.1E6	42.542	44.478M4
15)	4,4'-DDE	4.634	5.323	138.0E6	197.5E6	47.007	45.506
16)	Endosulfan I	4.675	5.191	124.1E6	185.9E6	42.612	44.590M4
17)	Dieldrin	4.948	5.475	141.9E6	210.8E6	47.831M3	49.451M4
18)	Endrin	5.193	5.766	132.2E6	199.9E6	44.516	46.238M4
19)	4,4'-DDD	5.294	5.882	117.1E6	172.7E6	55.989	49.307M4
20)	Endosulfan I	5.421	5.960	119.3E6	180.9E6	47.233	46.028M4
21)	4,4'-DDT	5.572	6.153	113.3E6	172.4E6	50.052	45.189M4
22)	Endrin Aldeh	5.822	6.251	88802969	132.8E6	46.689	43.994M4
23)	Methoxychlor	6.039	6.708	62530163	95106062	53.860	42.924M4
24)	Mirex	6.107	6.854	103.5E6	147.8E6	48.744	49.301
25)	Endosulfan S	6.203	6.476	112.2E6	170.1E6	54.075	45.886M4
26)	Endrin Keton	6.427	6.888	132.5E6	207.4E6	56.562	48.581
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 06:58 pm
Operator : pest20:jag
Sample : wg1930283-1,42,, pest11595 (Sig #1); pest11595 (Sig #2)
Misc : wg1930283,,ical21144
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 05 19:22:22 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 19:22:13 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

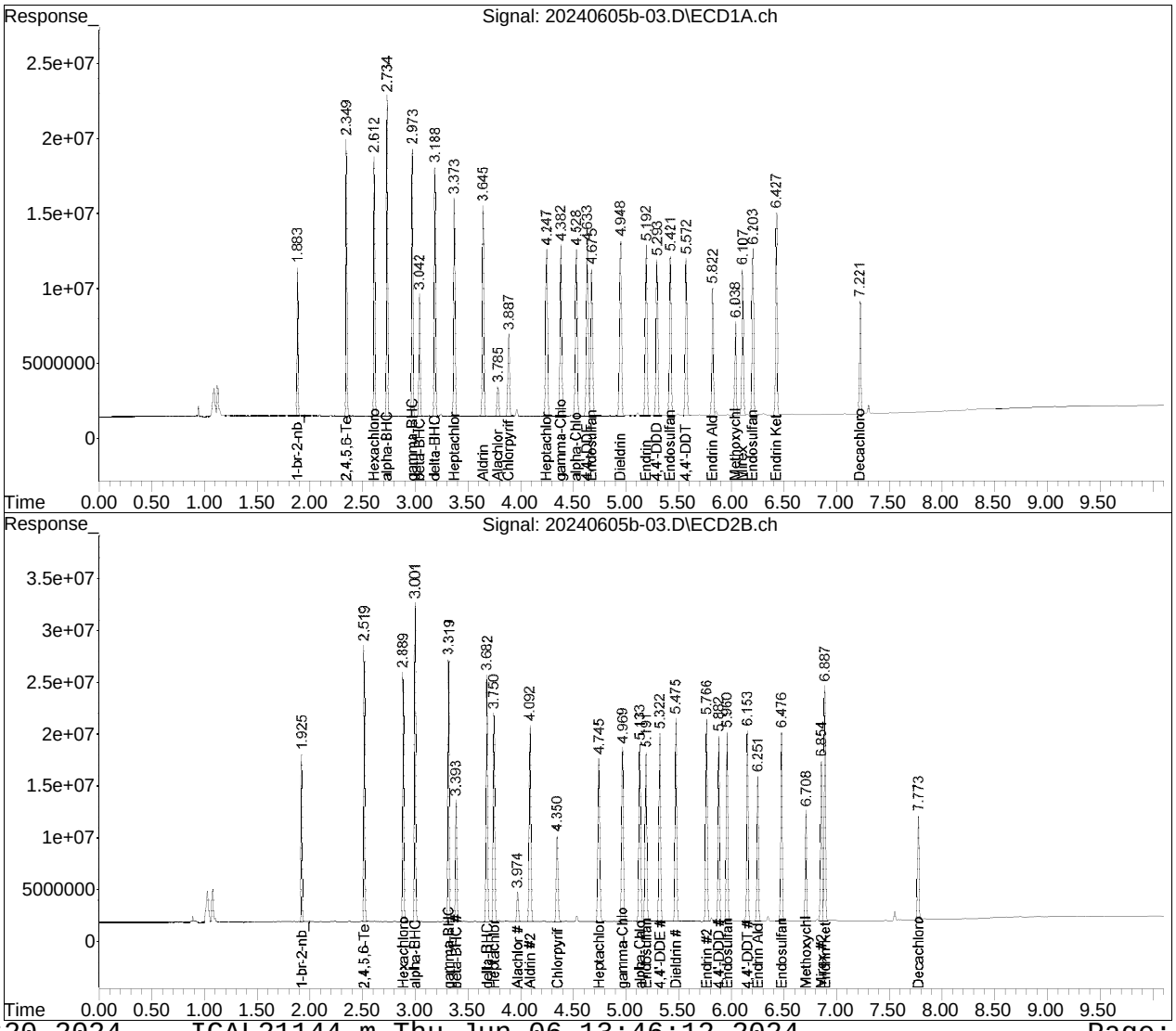
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 06:58 pm
Operator : pest20:jag
Sample : wg1930283-1,42,, pest11595 (Sig #1); pest11595 (Sig #2)
Misc : wg1930283,,ical21144
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 05 19:22:22 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 19:22:13 2024
Response via : Initial Calibration
Integrator: ChemStation

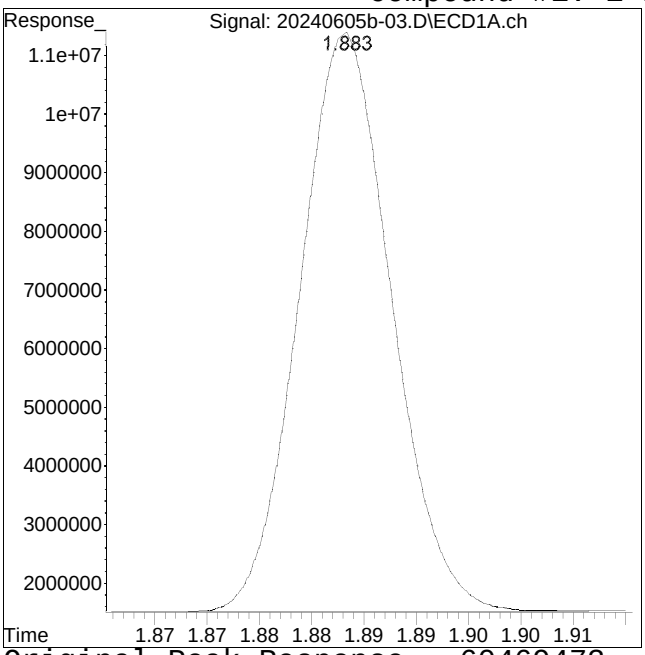
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



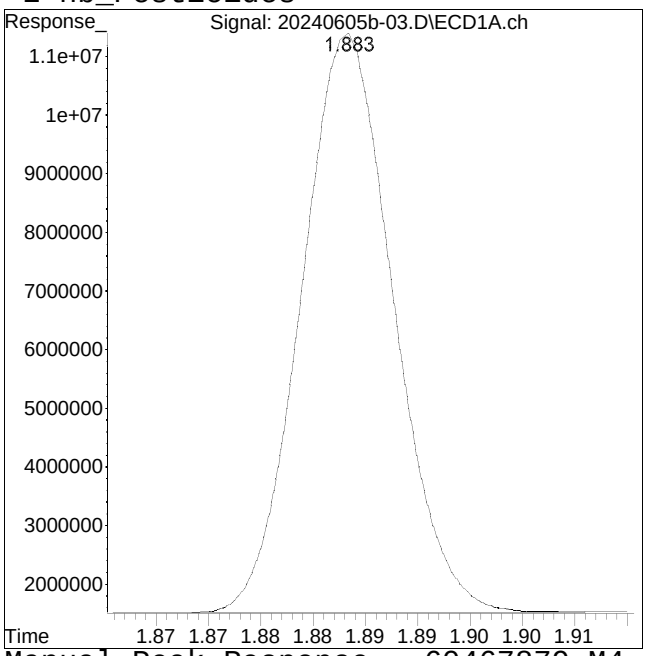
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-03.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:58 pm Instrument : PEST 20
Sample : wg1930283-1,42,, pest11595Quant Date : 6/5/2024 7:22 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 60469473



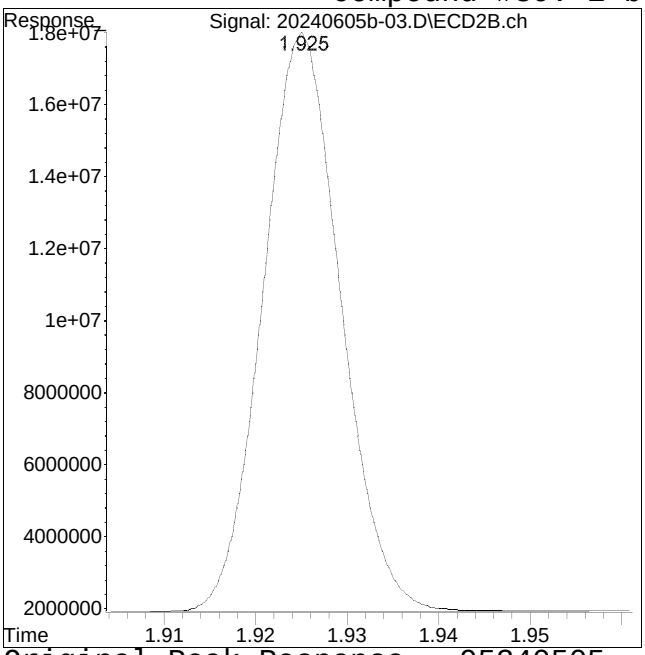
Manual Peak Response = 60467879 M4

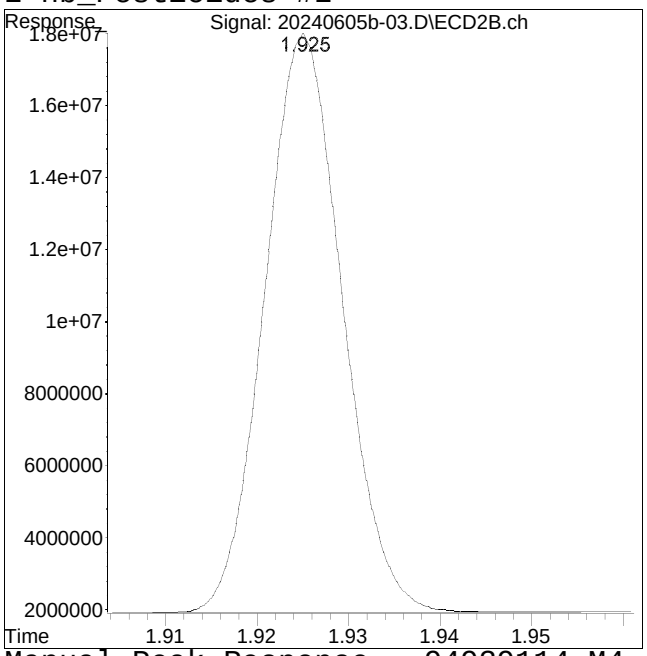
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-03.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:58 pm Instrument : PEST 20
Sample : wg1930283-1,42,, pest11595Quant Date : 6/5/2024 7:22 pm

Compound #39: 1-br-2-nb_Pesticides #2



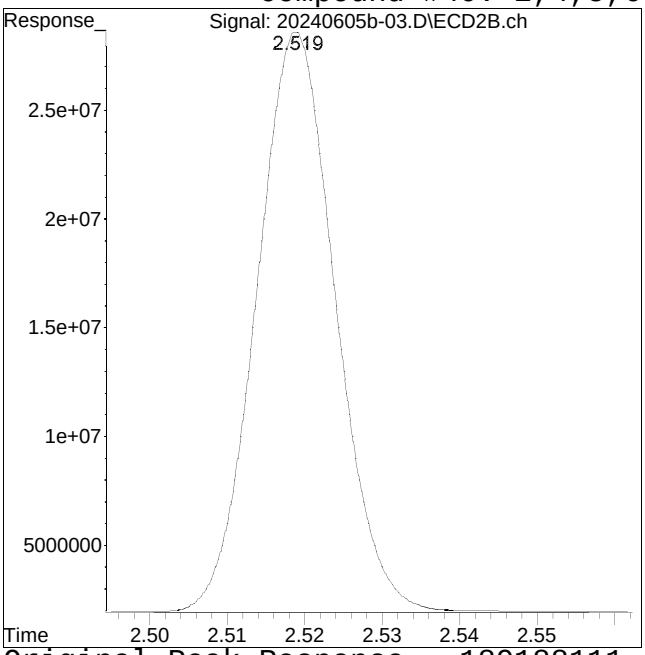


Original Peak Response = 95340505 Manual Peak Response = 94939114 M4
M4 = Poor automated baseline construction.

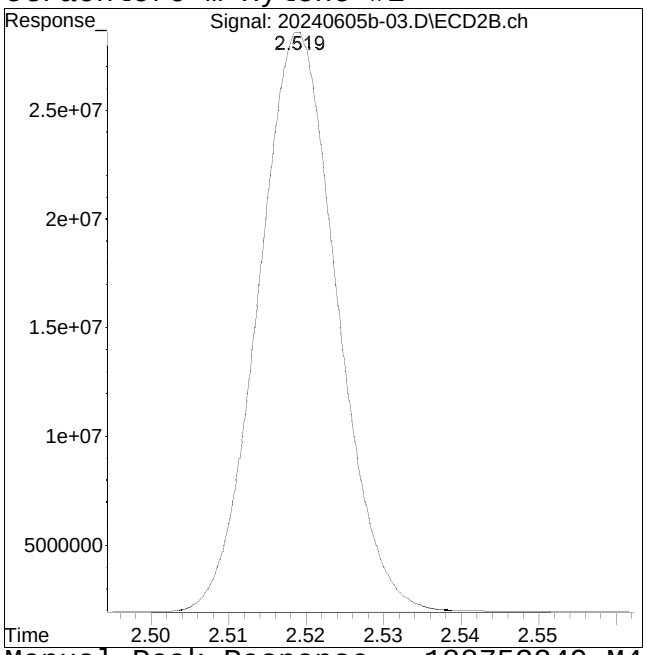
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-03.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:58 pm Instrument : PEST 20
Sample : wg1930283-1,42,, pest11595Quant Date : 6/5/2024 7:22 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 189188111



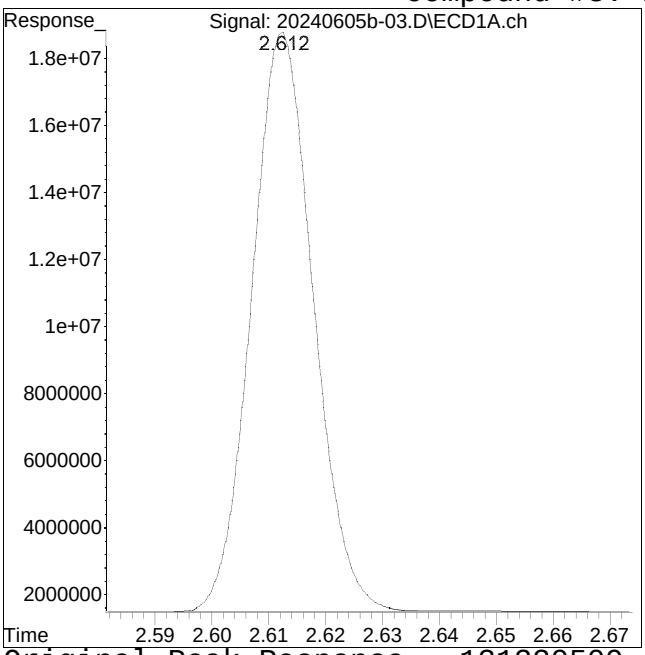
Manual Peak Response = 188753249 M4

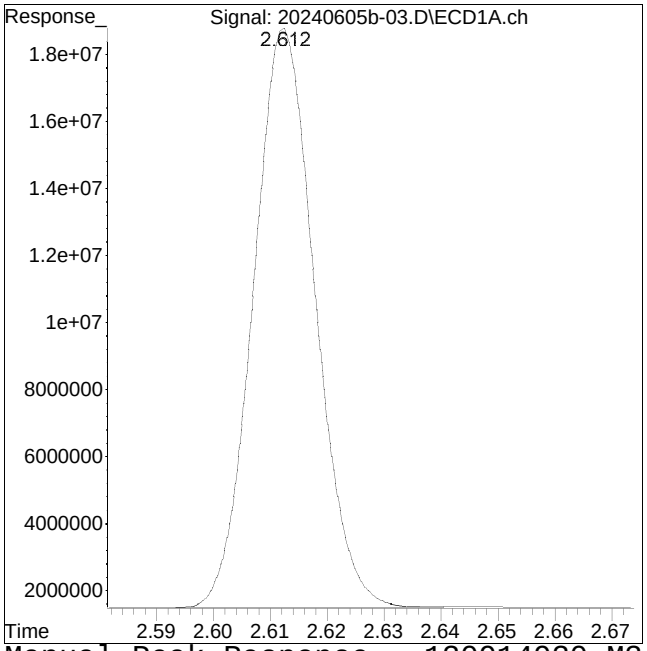
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-03.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:58 pm Instrument : PEST 20
Sample : wg1930283-1,42,, pest11595Quant Date : 6/5/2024 7:22 pm

Compound #3: Hexachlorobenzene



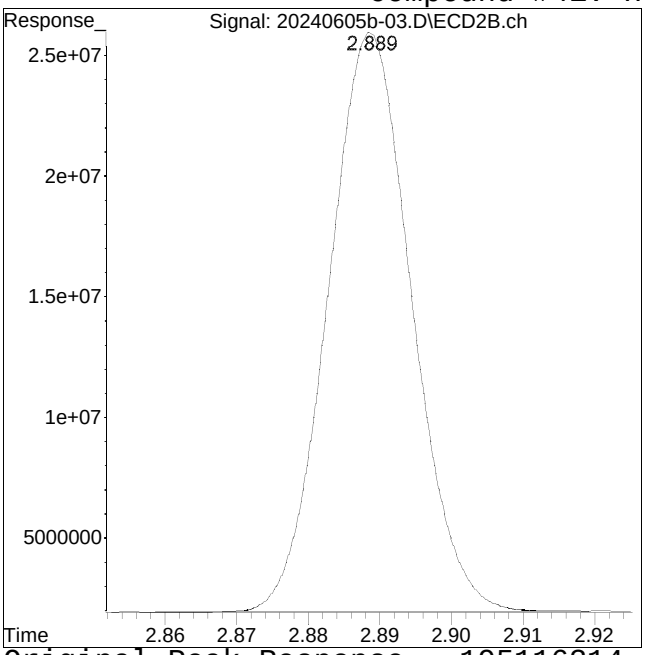


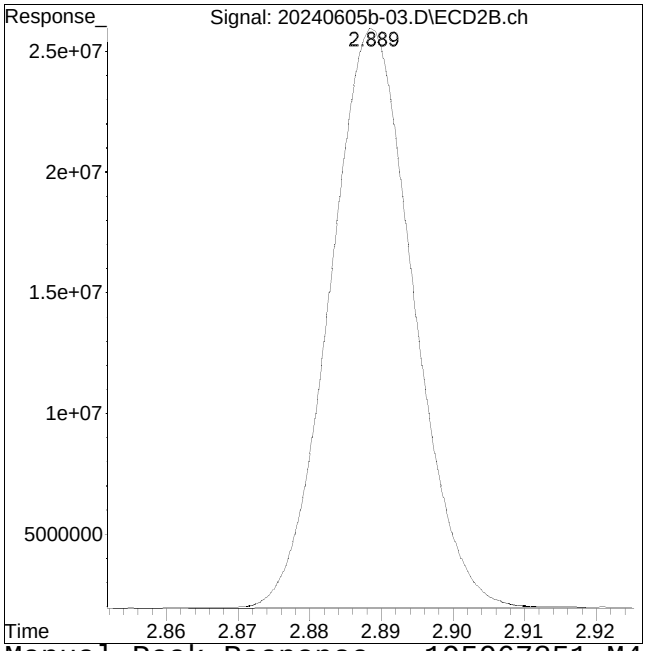
Original Peak Response = 131330509 Manual Peak Response = 130914930 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-03.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:58 pm Instrument : PEST 20
Sample : wg1930283-1,42,, pest11595Quant Date : 6/5/2024 7:22 pm

Compound #41: Hexachlorobenzene #2



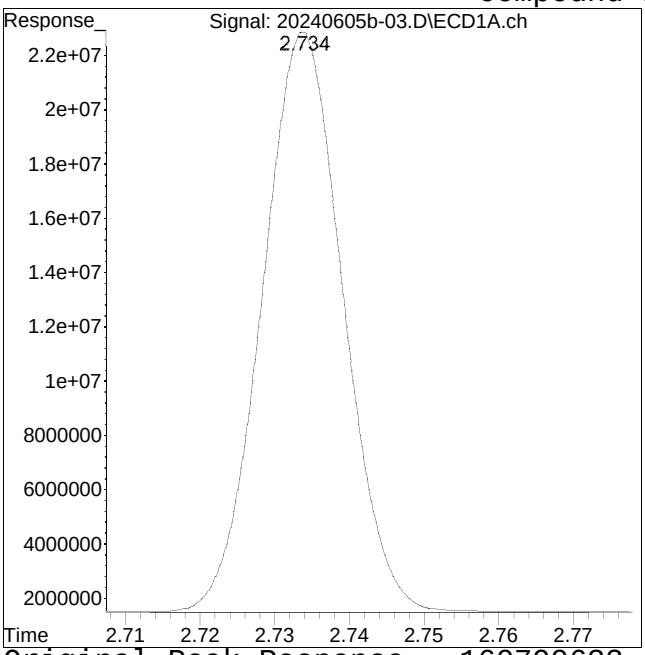


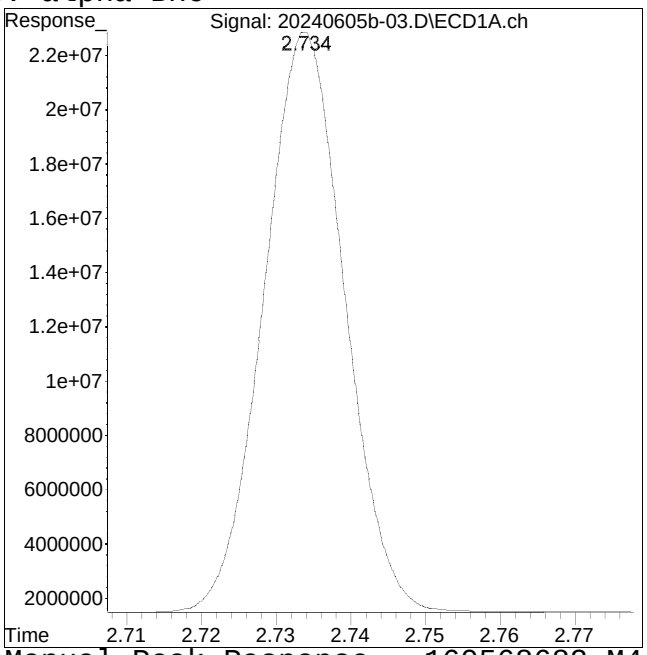
Original Peak Response = 195116314 Manual Peak Response = 195067851 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-03.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:58 pm Instrument : PEST 20
Sample : wg1930283-1,42,, pest11595Quant Date : 6/5/2024 7:22 pm

Compound #4: alpha-BHC



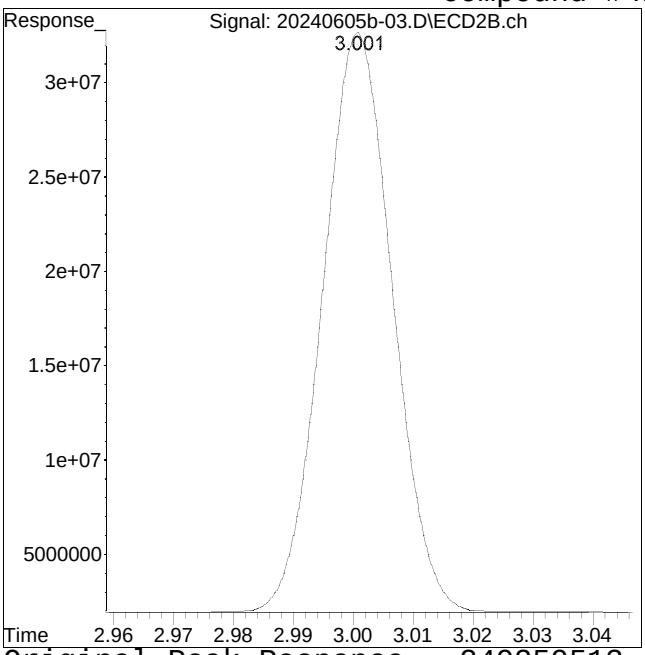


Original Peak Response = 160799633 Manual Peak Response = 160568682 M4
M4 = Poor automated baseline construction.

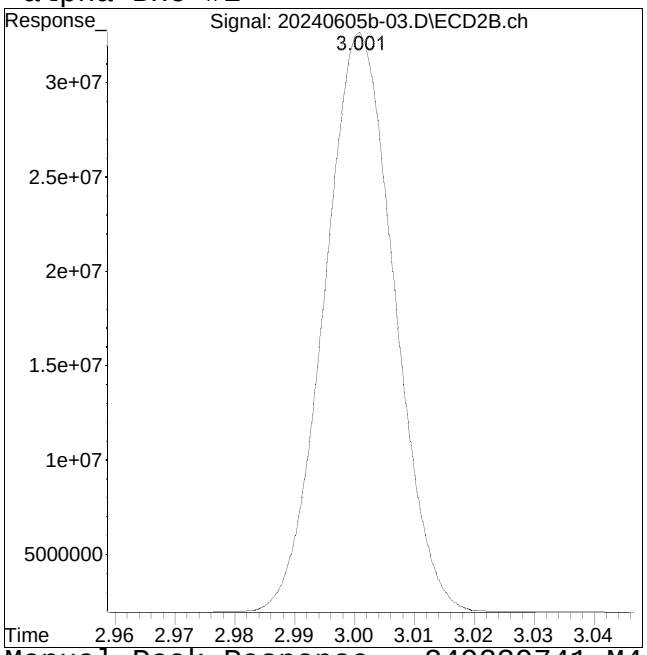
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-03.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:58 pm Instrument : PEST 20
Sample : wg1930283-1,42,, pest11595Quant Date : 6/5/2024 7:22 pm

Compound #42: alpha-BHC #2



Original Peak Response = 249259513



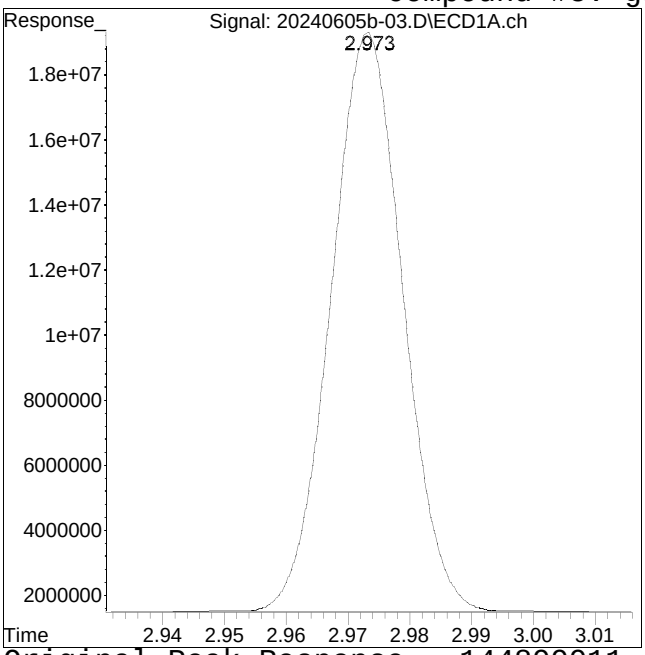
Manual Peak Response = 249239741 M4

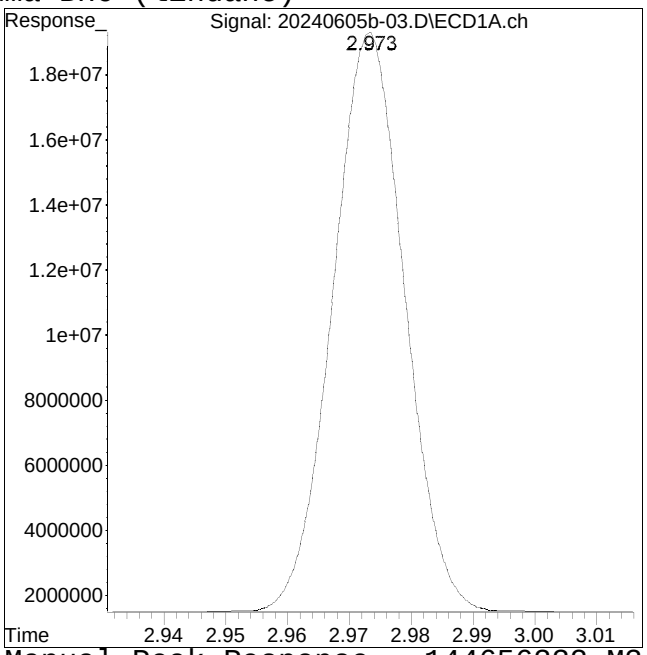
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-03.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:58 pm Instrument : PEST 20
Sample : wg1930283-1,42,, pest11595Quant Date : 6/5/2024 7:22 pm

Compound #5: gamma-BHC (lindane)



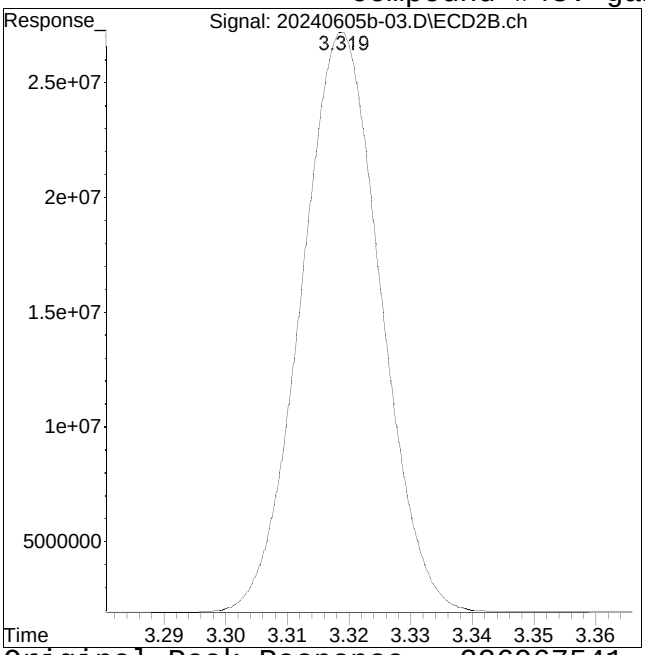


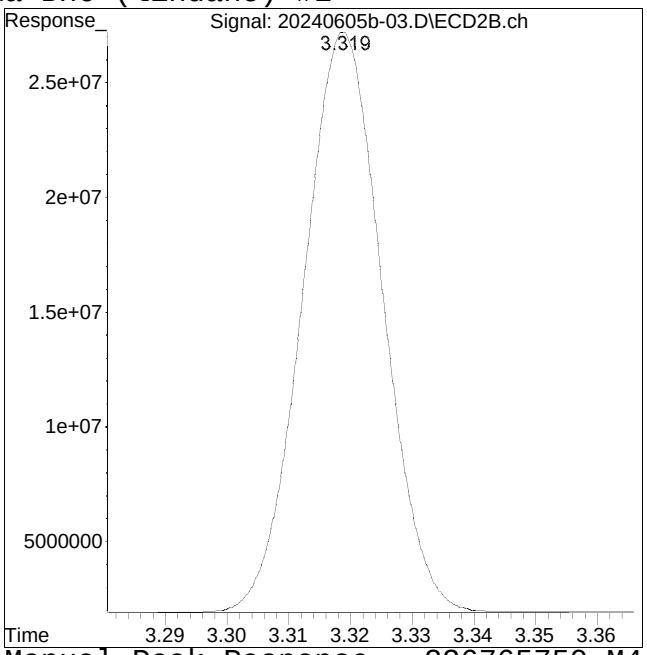
Original Peak Response = 144899911 Manual Peak Response = 144656332 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-03.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:58 pm Instrument : PEST 20
Sample : wg1930283-1,42,, pest11595Quant Date : 6/5/2024 7:22 pm

Compound #43: gamma-BHC (lindane) #2



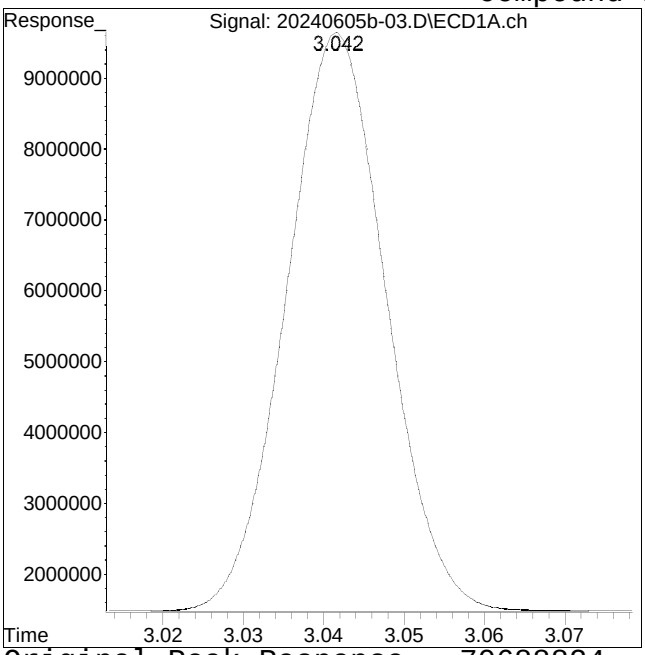


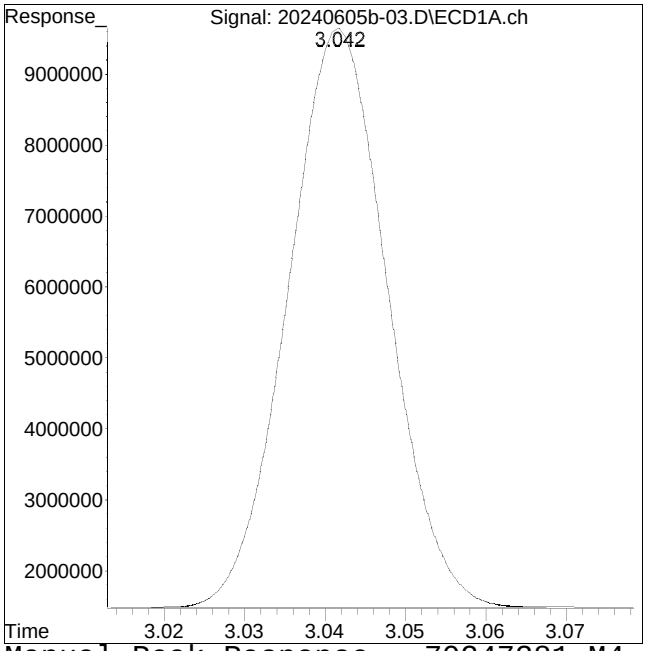
Original Peak Response = 226967541 Manual Peak Response = 226765750 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-03.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:58 pm Instrument : PEST 20
Sample : wg1930283-1,42,, pest11595Quant Date : 6/5/2024 7:22 pm

Compound #6: beta-BHC



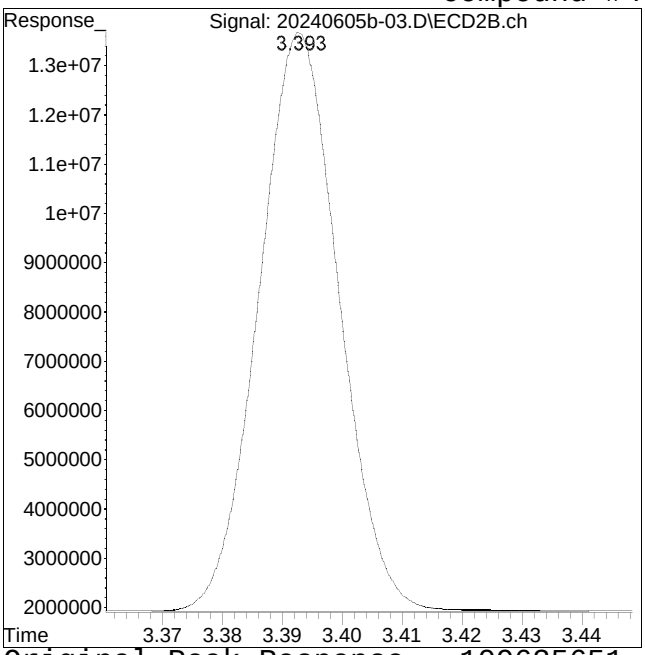


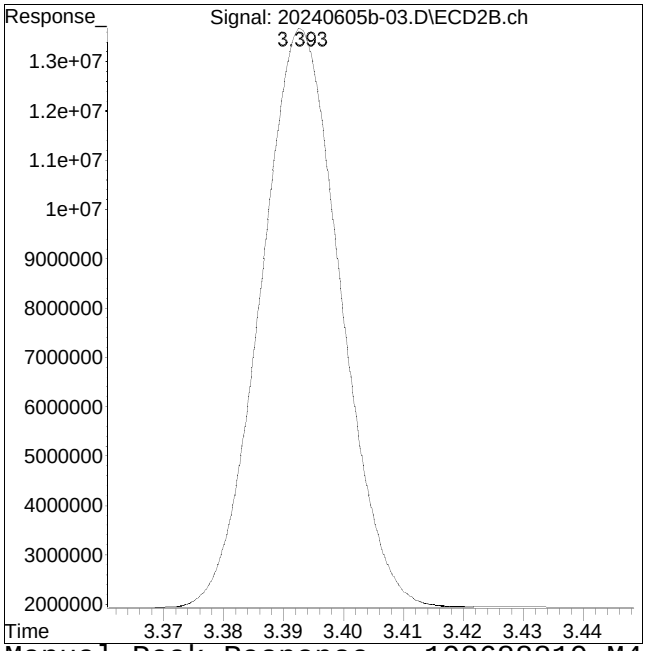
Original Peak Response = 70688824 Manual Peak Response = 70247381 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-03.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:58 pm Instrument : PEST 20
Sample : wg1930283-1,42,, pest11595Quant Date : 6/5/2024 7:22 pm

Compound #44: beta-BHC #2



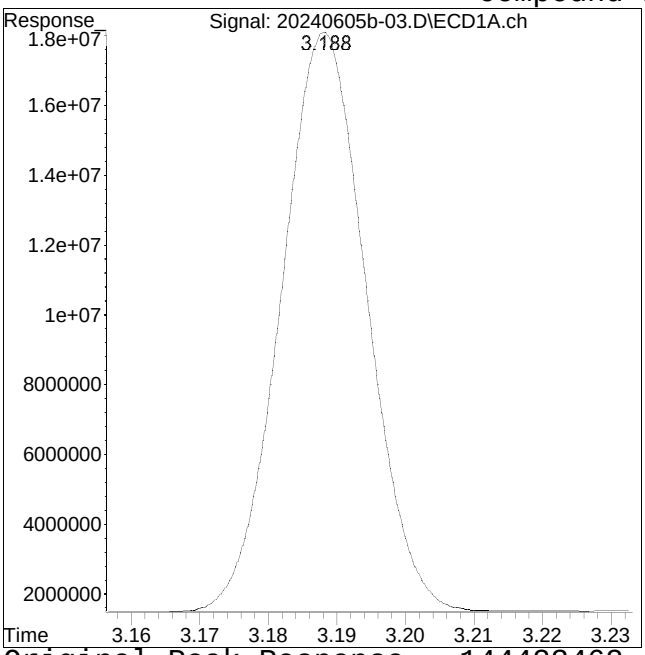


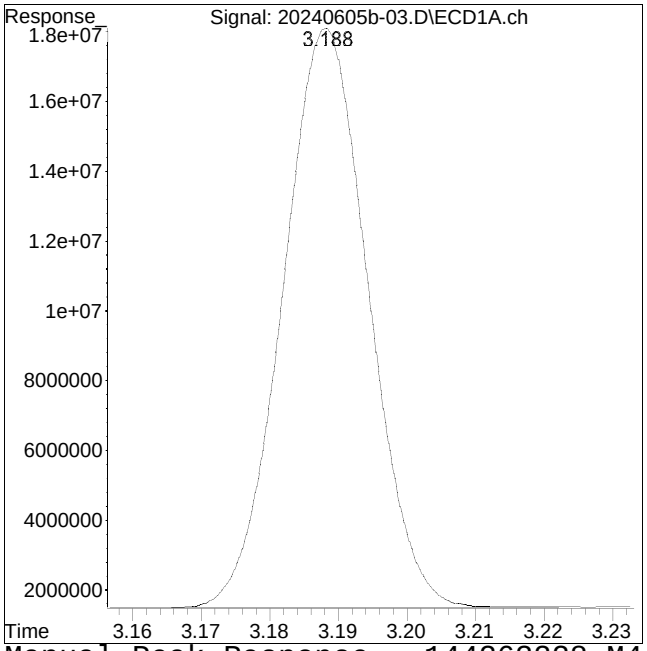
Original Peak Response = 109635651 Manual Peak Response = 108688810 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-03.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:58 pm Instrument : PEST 20
Sample : wg1930283-1,42,, pest11595Quant Date : 6/5/2024 7:22 pm

Compound #7: delta-BHC



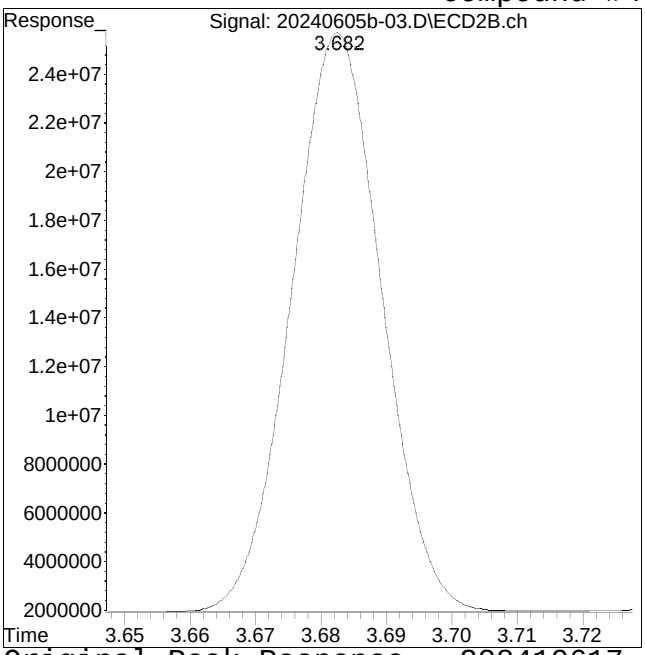


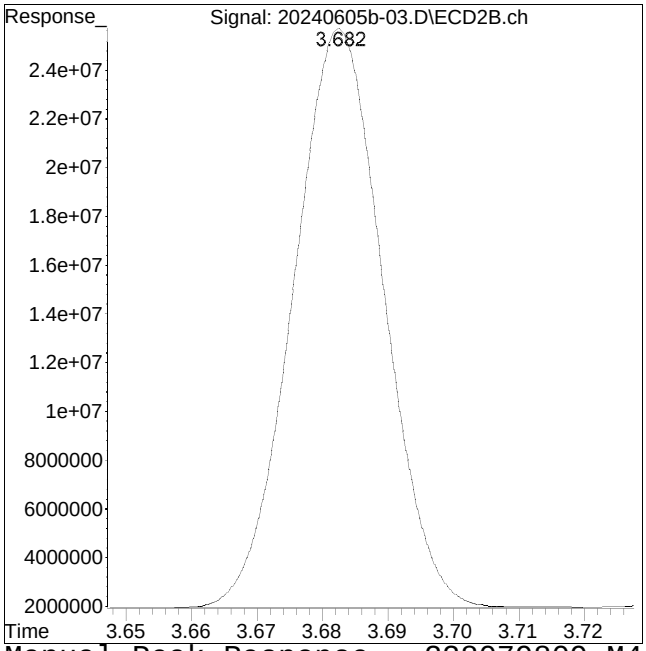
Original Peak Response = 144423462 Manual Peak Response = 144263228 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-03.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:58 pm Instrument : PEST 20
Sample : wg1930283-1,42,, pest11595Quant Date : 6/5/2024 7:22 pm

Compound #45: delta-BHC #2



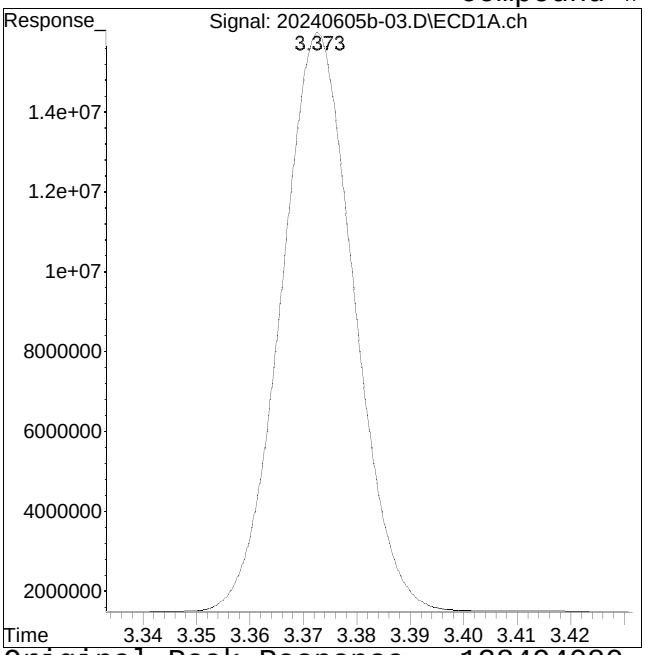


Original Peak Response = 228410617 Manual Peak Response = 228079809 M4
M4 = Poor automated baseline construction.

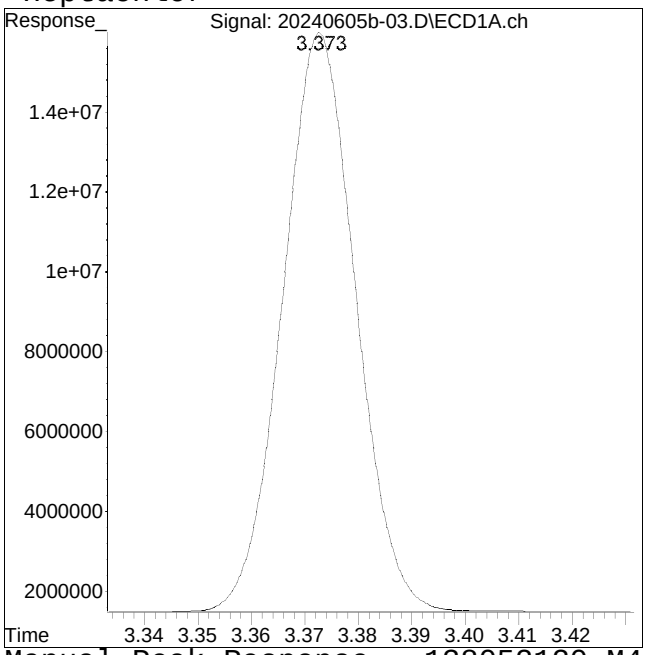
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-03.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:58 pm Instrument : PEST 20
Sample : wg1930283-1,42,, pest11595Quant Date : 6/5/2024 7:22 pm

Compound #8: Heptachlor



Original Peak Response = 138494080



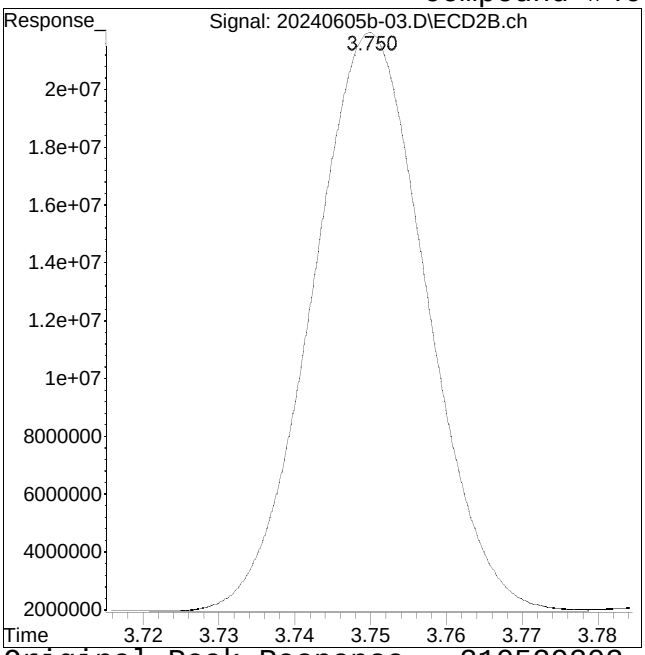
Manual Peak Response = 138052120 M4

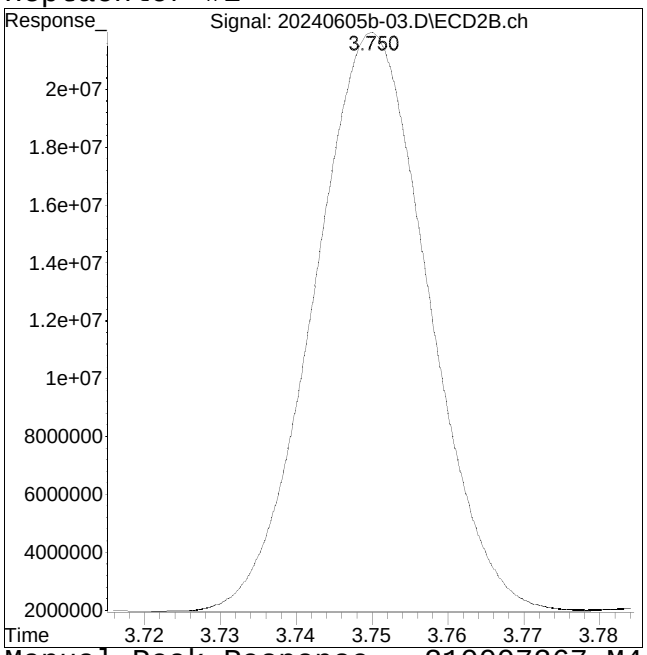
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-03.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:58 pm Instrument : PEST 20
Sample : wg1930283-1,42,, pest11595Quant Date : 6/5/2024 7:22 pm

Compound #46: Heptachlor #2



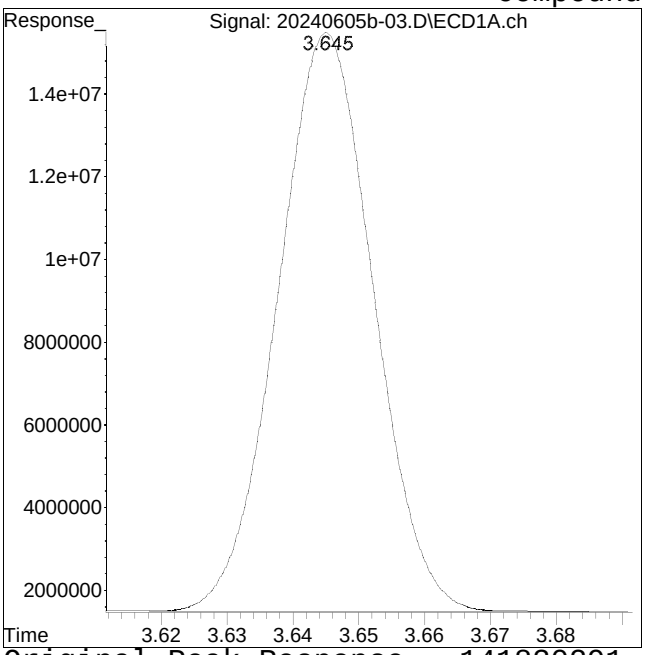


Original Peak Response = 210529303 Manual Peak Response = 210007367 M4
M4 = Poor automated baseline construction.

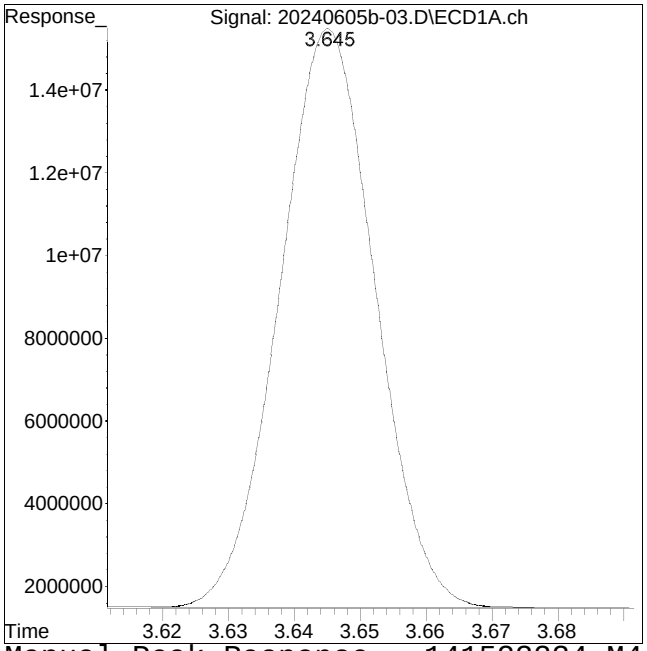
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-03.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:58 pm Instrument : PEST 20
Sample : wg1930283-1,42,, pest11595Quant Date : 6/5/2024 7:22 pm

Compound #9: Aldrin



Original Peak Response = 141830291



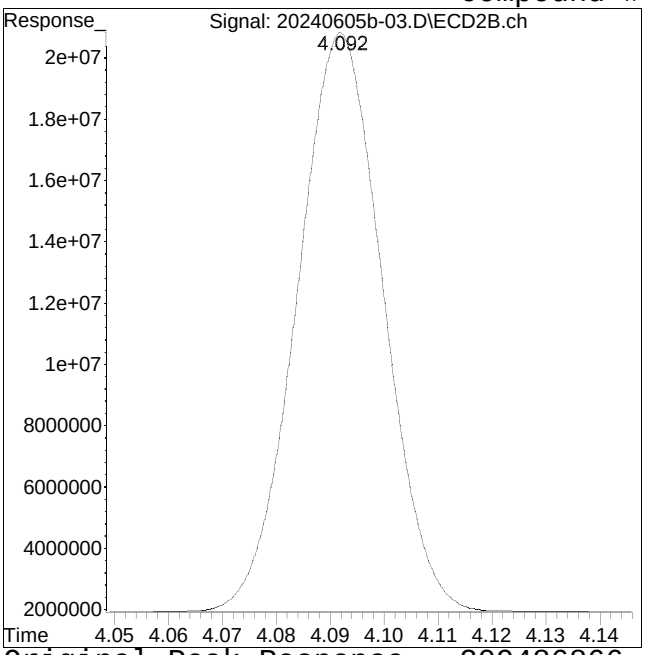
Manual Peak Response = 141523234 M4

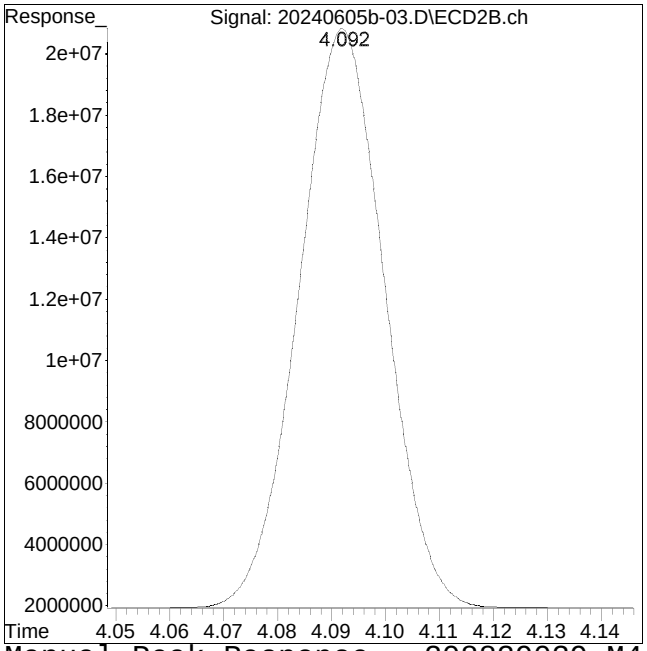
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-03.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:58 pm Instrument : PEST 20
Sample : wg1930283-1,42,, pest11595Quant Date : 6/5/2024 7:22 pm

Compound #47: Aldrin #2



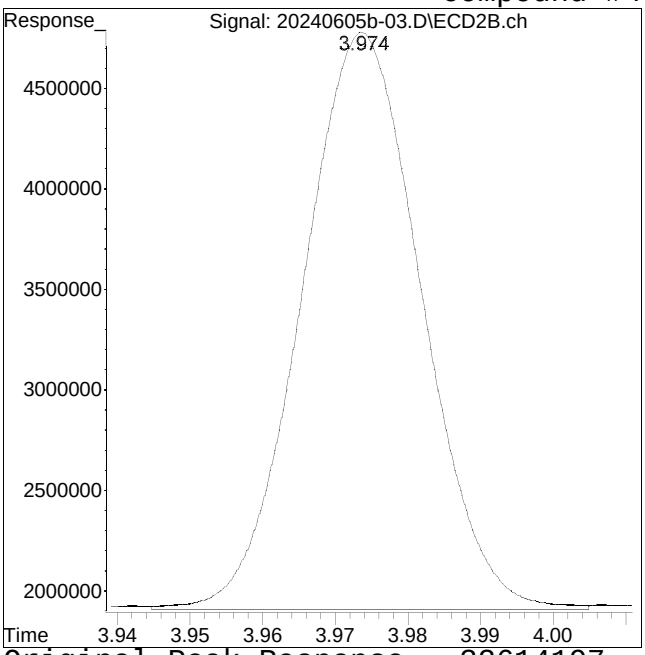


Original Peak Response = 209486866 Manual Peak Response = 208839039 M4
M4 = Poor automated baseline construction.

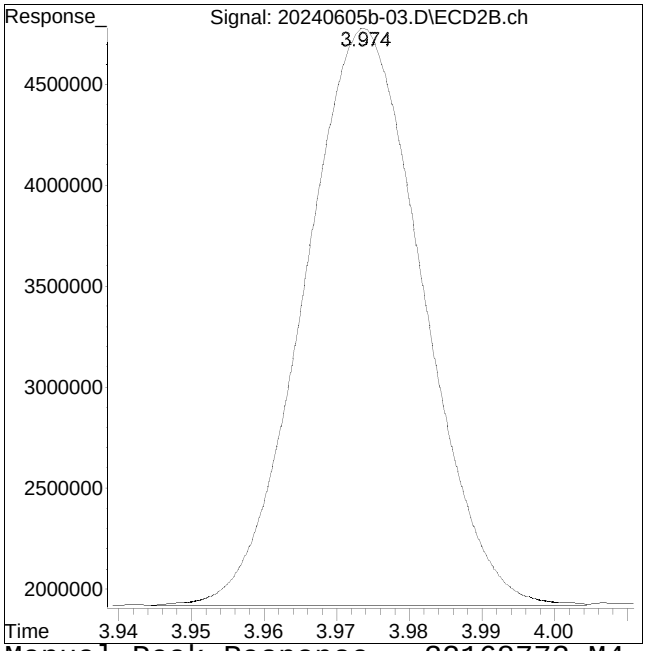
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-03.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:58 pm Instrument : PEST 20
Sample : wg1930283-1,42,, pest11595Quant Date : 6/5/2024 7:22 pm

Compound #48: Alachlor #2



Original Peak Response = 32614197



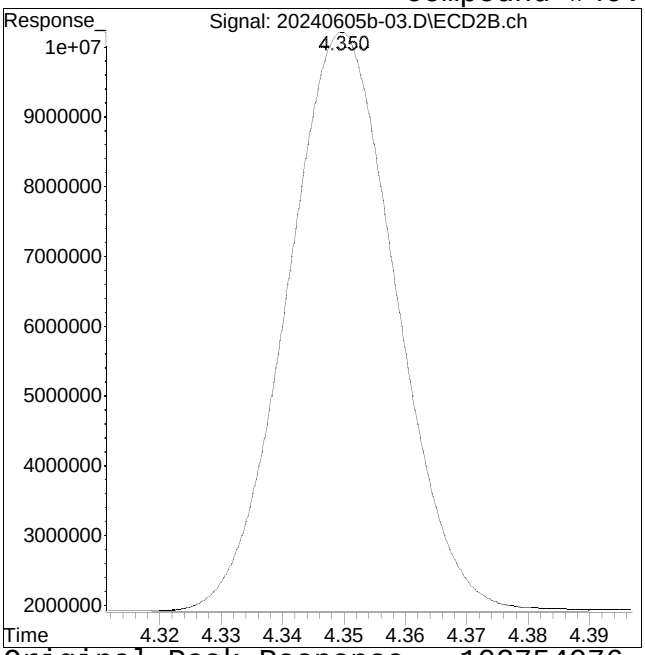
Manual Peak Response = 32168773 M4

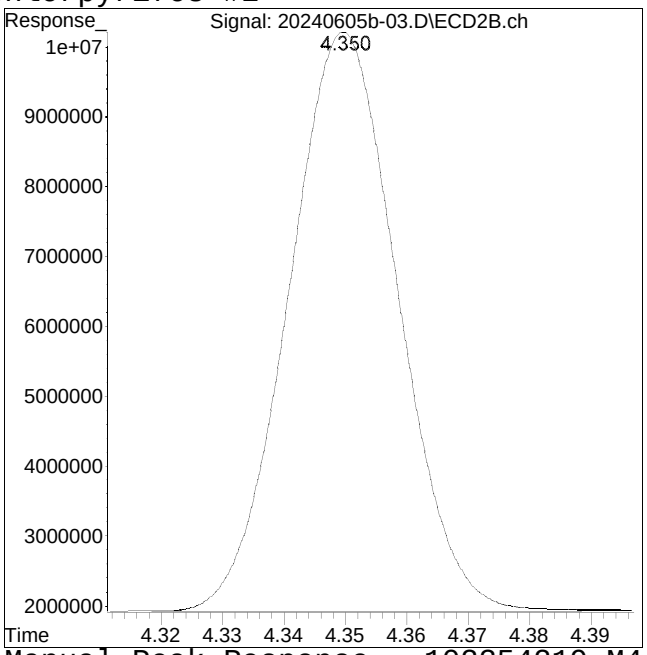
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-03.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:58 pm Instrument : PEST 20
Sample : wg1930283-1,42,, pest11595Quant Date : 6/5/2024 7:22 pm

Compound #49: Chlorpyrifos #2



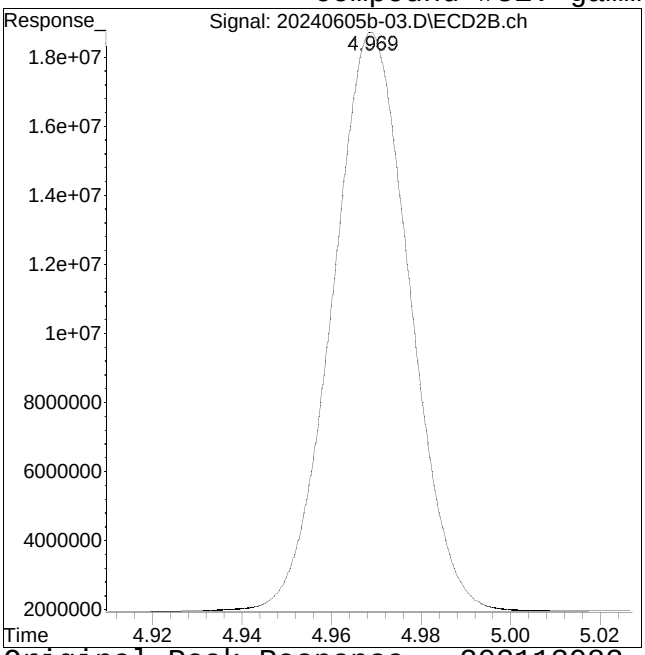


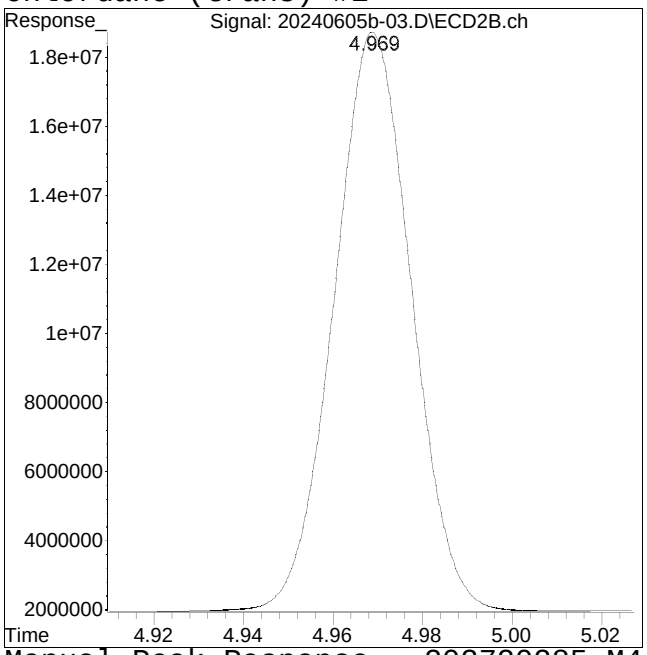
Original Peak Response = 102754976 Manual Peak Response = 102354219 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-03.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:58 pm Instrument : PEST 20
Sample : wg1930283-1,42,, pest11595Quant Date : 6/5/2024 7:22 pm

Compound #51: gamma-Chlordane (trans) #2



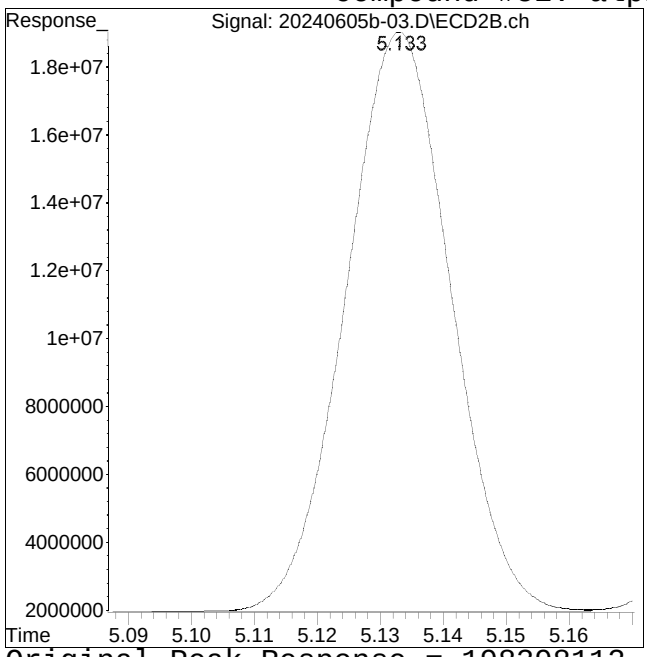


Original Peak Response = 203113983 Manual Peak Response = 202720285 M4
M4 = Poor automated baseline construction.

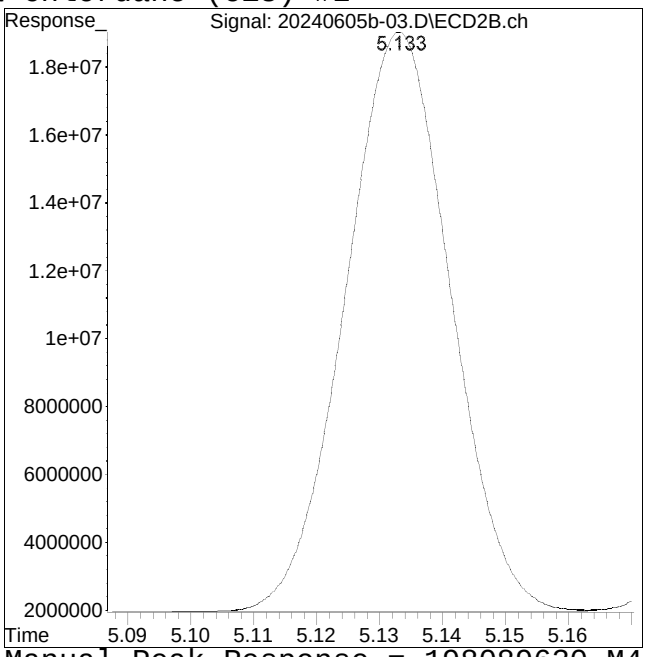
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-03.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:58 pm Instrument : PEST 20
Sample : wg1930283-1,42,, pest11595Quant Date : 6/5/2024 7:22 pm

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 198398112



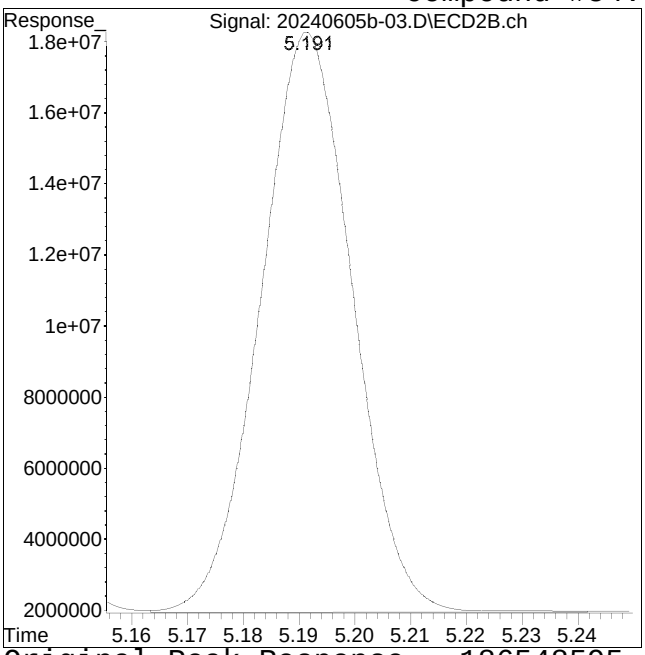
Manual Peak Response = 198089630 M4

M4 = Poor automated baseline construction.

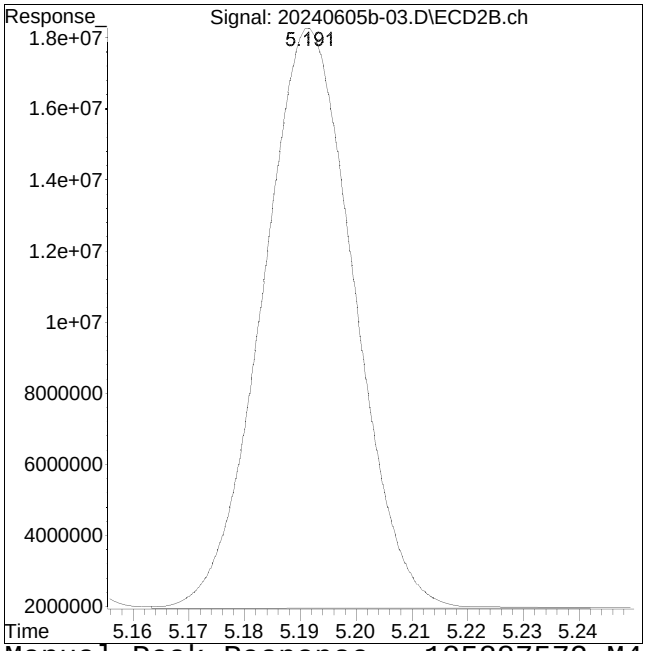
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-03.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:58 pm Instrument : PEST 20
Sample : wg1930283-1,42,, pest11595Quant Date : 6/5/2024 7:22 pm

Compound #54: Endosulfan I #2



Original Peak Response = 186548595



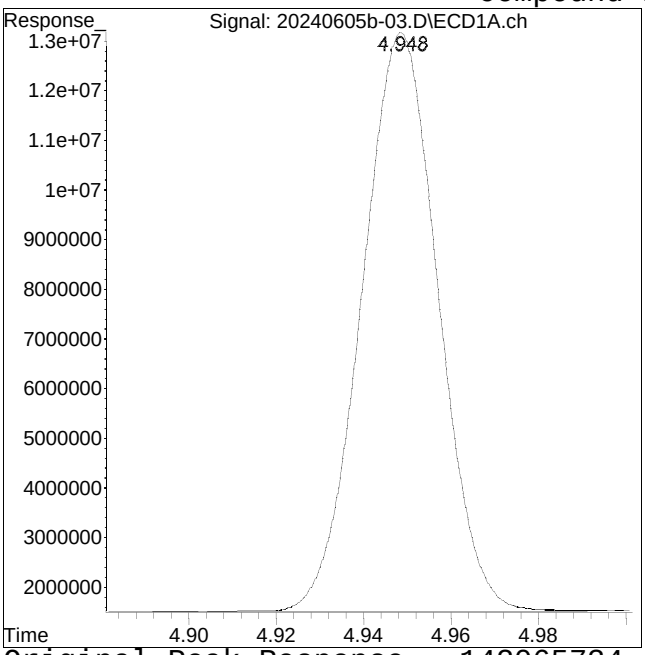
Manual Peak Response = 185887572 M4

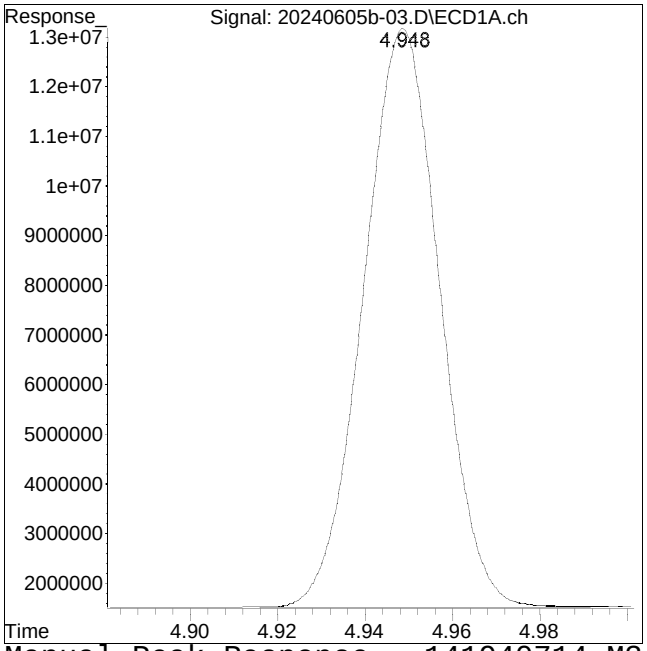
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-03.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:58 pm Instrument : PEST 20
Sample : wg1930283-1,42,, pest11595Quant Date : 6/5/2024 7:22 pm

Compound #17: Dieldrin



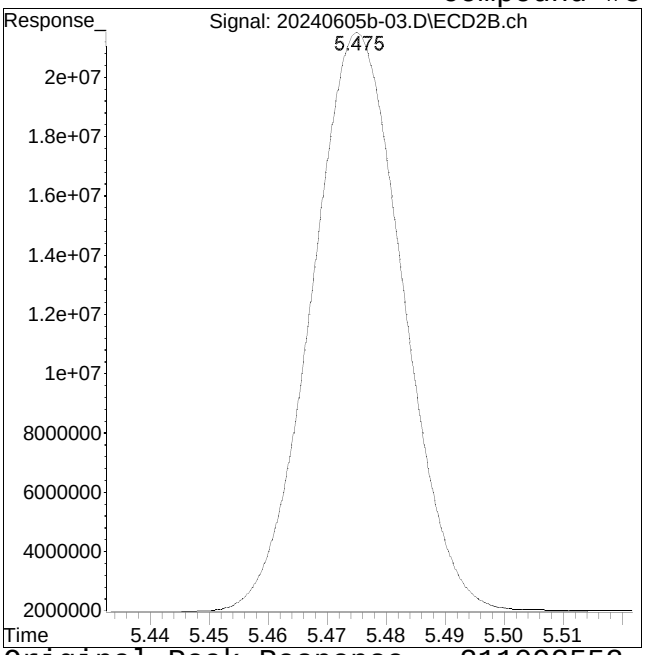


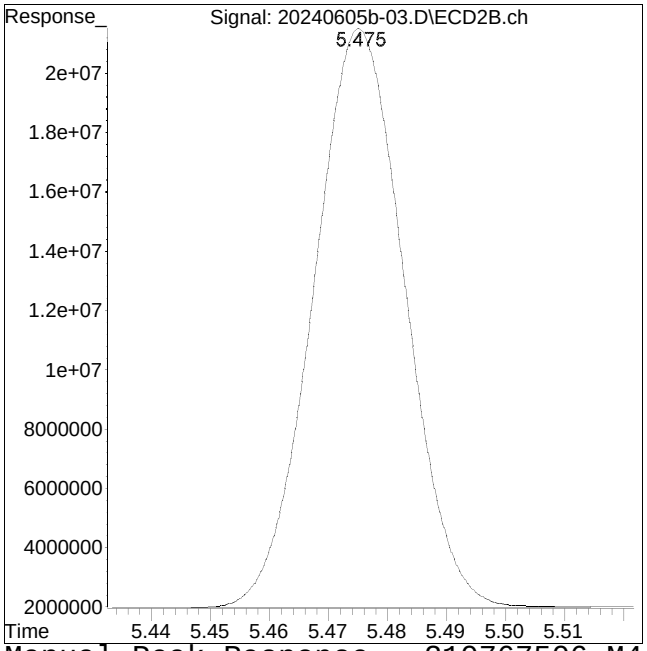
Original Peak Response = 142065734 Manual Peak Response = 141940714 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-03.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:58 pm Instrument : PEST 20
Sample : wg1930283-1,42,, pest11595Quant Date : 6/5/2024 7:22 pm

Compound #55: Dieldrin #2



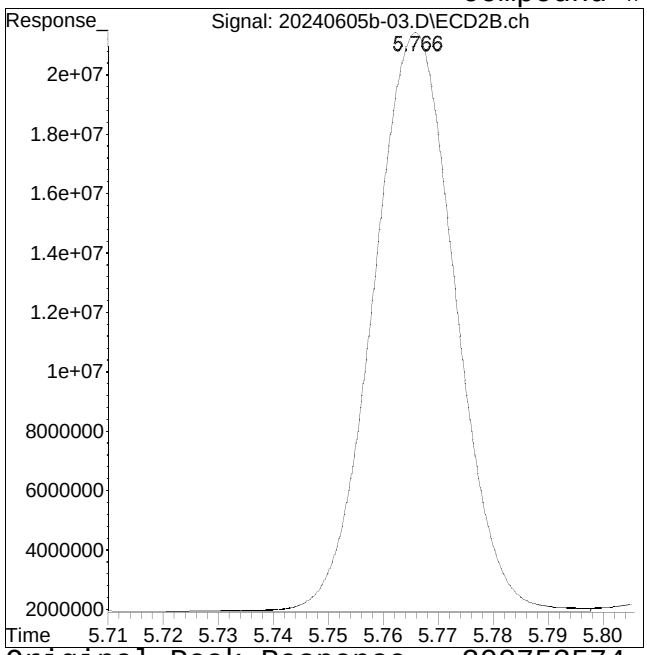


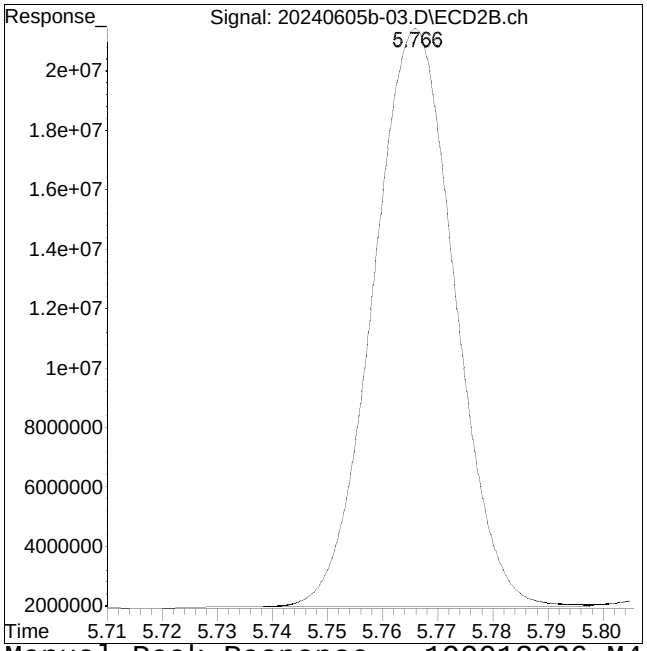
Original Peak Response = 211092552 Manual Peak Response = 210767506 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-03.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:58 pm Instrument : PEST 20
Sample : wg1930283-1,42,, pest11595Quant Date : 6/5/2024 7:22 pm

Compound #56: Endrin #2



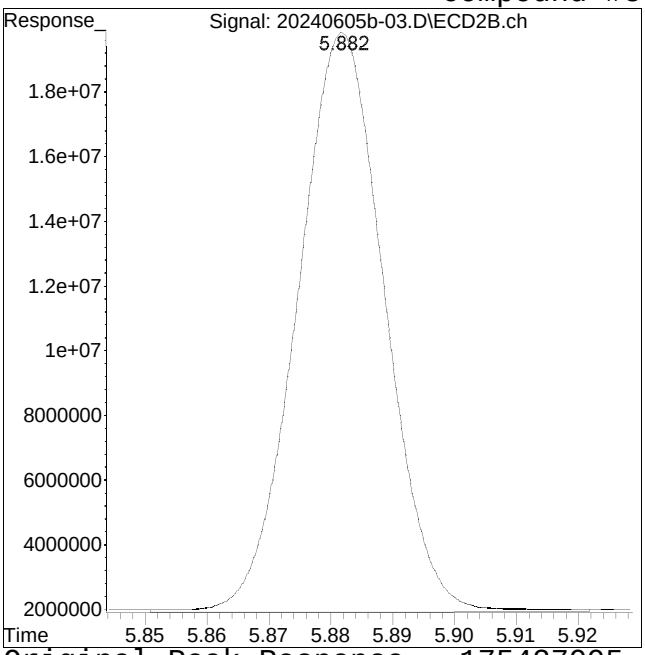


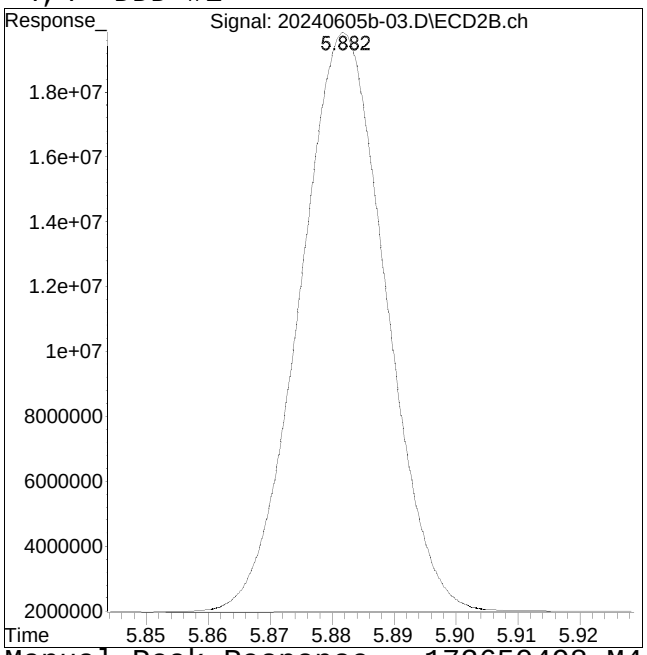
Original Peak Response = 202753574 Manual Peak Response = 199912036 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-03.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:58 pm Instrument : PEST 20
Sample : wg1930283-1,42,, pest11595Quant Date : 6/5/2024 7:22 pm

Compound #57: 4,4'-DDD #2



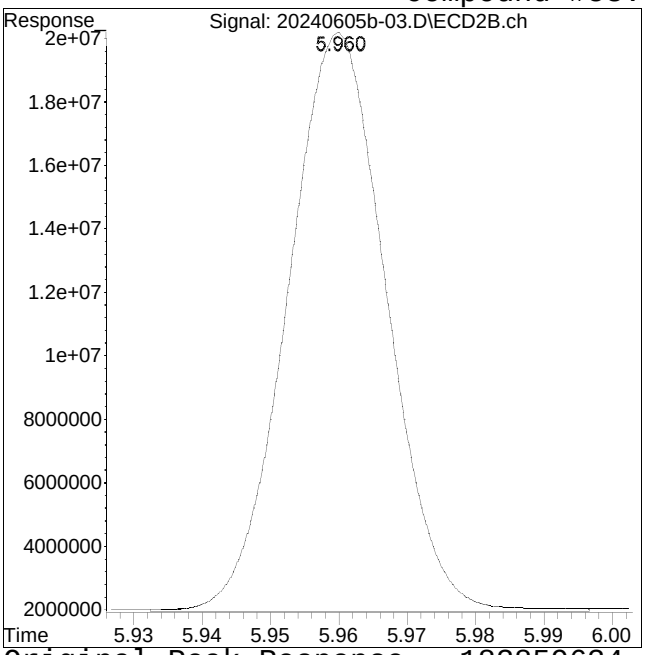


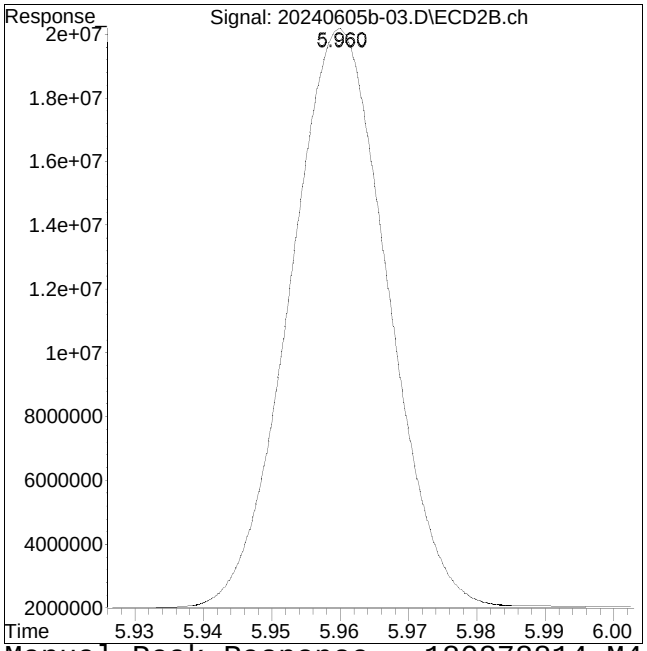
Original Peak Response = 175427995 Manual Peak Response = 172650498 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-03.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:58 pm Instrument : PEST 20
Sample : wg1930283-1,42,, pest11595Quant Date : 6/5/2024 7:22 pm

Compound #58: Endosulfan II #2



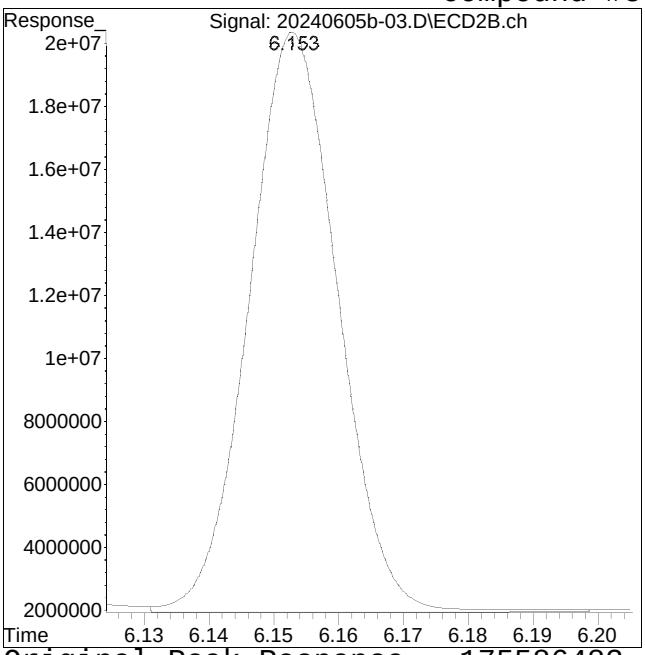


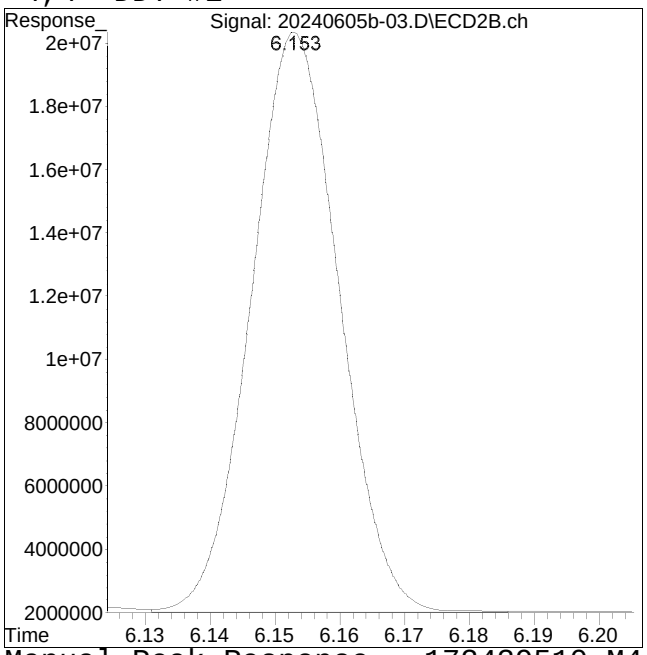
Original Peak Response = 183859634 Manual Peak Response = 180878814 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-03.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:58 pm Instrument : PEST 20
Sample : wg1930283-1,42,, pest11595Quant Date : 6/5/2024 7:22 pm

Compound #59: 4,4'-DDT #2



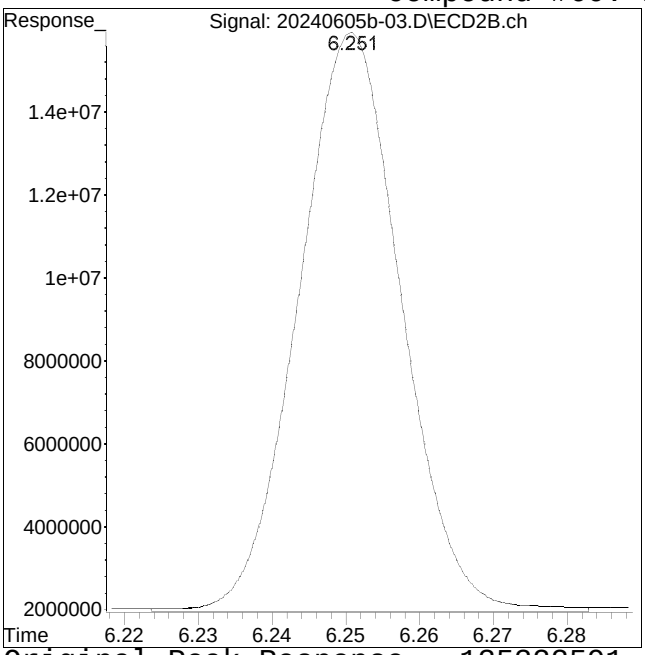


Original Peak Response = 175586483 Manual Peak Response = 172439510 M4
M4 = Poor automated baseline construction.

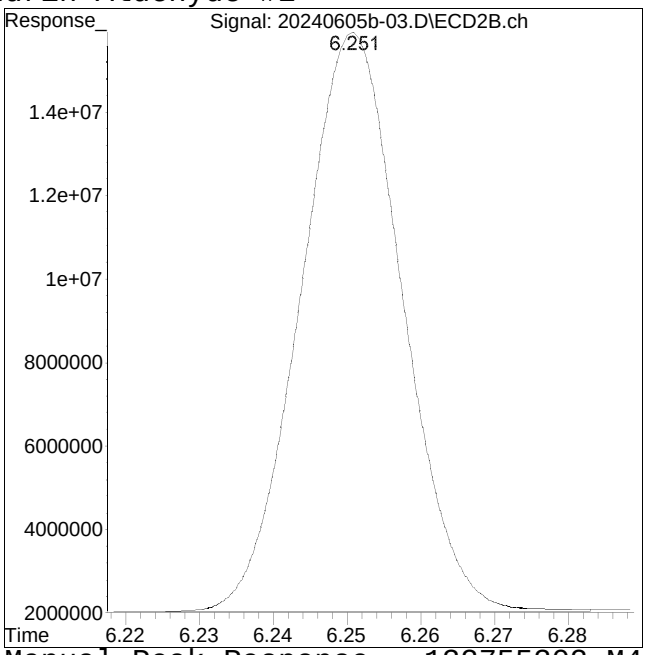
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-03.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:58 pm Instrument : PEST 20
Sample : wg1930283-1,42,, pest11595Quant Date : 6/5/2024 7:22 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 135322591



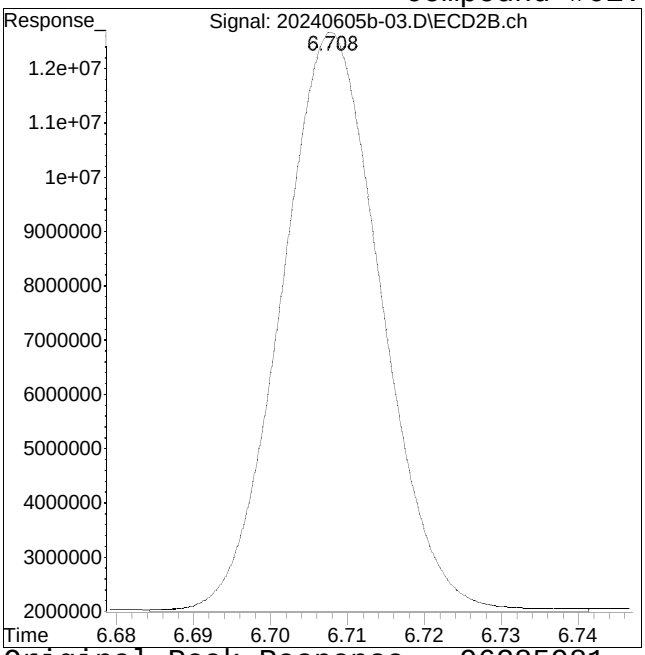
Manual Peak Response = 132755302 M4

M4 = Poor automated baseline construction.

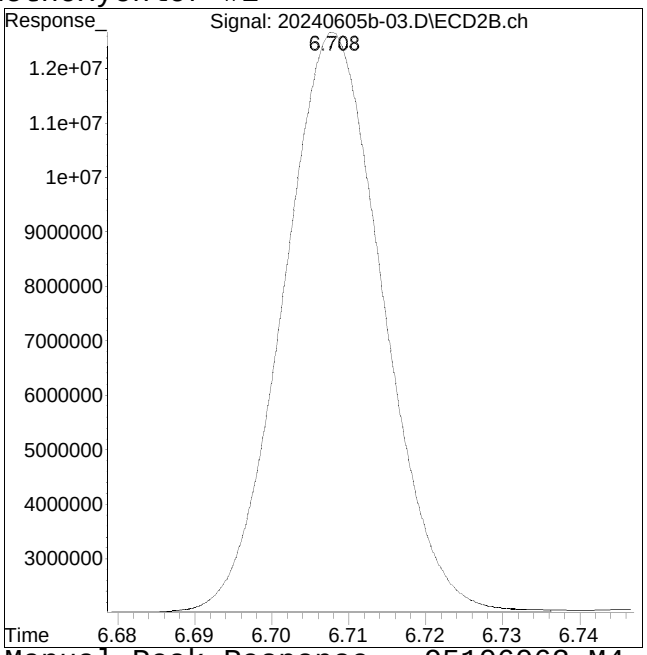
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-03.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:58 pm Instrument : PEST 20
Sample : wg1930283-1,42,, pest11595Quant Date : 6/5/2024 7:22 pm

Compound #61: Methoxychlor #2



Original Peak Response = 96285981



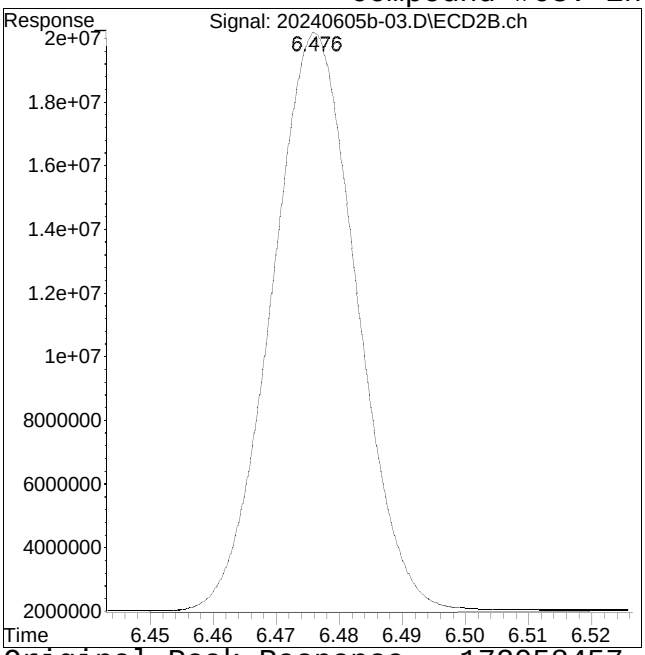
Manual Peak Response = 95106062 M4

M4 = Poor automated baseline construction.

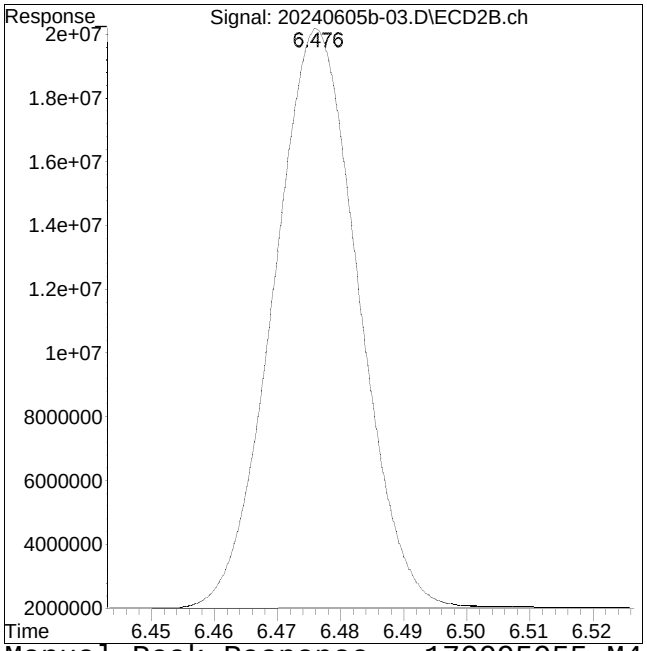
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-03.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:58 pm Instrument : PEST 20
Sample : wg1930283-1,42,, pest11595Quant Date : 6/5/2024 7:22 pm

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 172058457



Manual Peak Response = 170095955 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 05 Jun 2024 07:10 pm
Operator : pest20:jag
Sample   : wg1930283-2,42,, chlor11540 (Sig #1); chlor11540 (Sig #2)
Misc   : wg1930283,,ical21144
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 05 19:23:20 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 19:23:11 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	111	0.00
29	l1	chlordane-1		*1000.000	989.481	1.1	108	0.00
30	l1	chlordane-3		*1000.000	984.310	1.6	107	0.00
31	l1	chlordane-4		*1000.000	979.536	2.0	107	0.00
32	l1	chlordane-5		*1000.000	989.222	1.1	108	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	118	0.00
29	l1	chlordane-1		*1000.000	1099.299	-9.9	126	0.00
30	l1	chlordane-3		*1000.000	1027.477	-2.7	116	0.00
31	l1	chlordane-4		*1000.000	1057.424	-5.7	121	0.00
32	l1	chlordane-5		*1000.000	1054.827	-5.5	121	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.88#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.150	0.000	100.0#	0#	-2.35#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.61#
4		alpha-BHC		1.370	0.000	100.0#	0#	-2.73#
5		gamma-BHC (lindane)		1.310	0.000	100.0#	0#	-2.97#
6		beta-BHC	*	50.000	0.000	100.0#	0	-3.04#
7		delta-BHC		1.132	0.000	100.0#	0#	-3.19#
8		Heptachlor		1.317	0.000	100.0#	0#	-3.37#
9		Aldrin		1.296	0.000	100.0#	0#	-3.65#
10		Alachlor		0.174	0.000	100.0#	0#	-3.79#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.89#
12		Heptachlor Epoxide		1.267	0.000	100.0#	0#	-4.25#
13		gamma-Chlordane (trans)		1.158	0.000	100.0#	0#	-4.38#

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 05 Jun 2024 07:10 pm
Operator : pest20:jag
Sample   : wg1930283-2,42,, chlor11540 (Sig #1); chlor11540 (Sig #2)
Misc   : wg1930283,,ical21144
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 05 19:23:20 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 19:23:11 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)		1.322	0.000	100.0#	0#	-4.53#
15		4,4'-DDE		1.213	0.000	100.0#	0#	-4.63#
16		Endosulfan I		1.204	0.000	100.0#	0#	-4.68#
17		Dieldrin		1.227	0.000	100.0#	0#	-4.95#
18		Endrin		1.228	0.000	100.0#	0#	-5.19#
19		4,4'-DDD		0.864	0.000	100.0#	0#	-5.29#
20		Endosulfan II		1.044	0.000	100.0#	0#	-5.42#
21		4,4'-DDT		0.935	0.000	100.0#	0#	-5.57#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.82#
23		Methoxychlor		0.480	0.000	100.0#	0#	-6.04#
24		Mirex	*	50.000	0.000	100.0#	0	-6.11#
25		Endosulfan Sulfate		0.858	0.000	100.0#	0#	-6.20#
26		Endrin Ketone		0.968	0.000	100.0#	0#	-6.43#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.22#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.88#
34	l2	toxaphene-1		0.042	0.000	100.0#	0#	-5.41#
35	l2	toxaphene-2		0.031	0.000	100.0#	0#	-5.93#
36	l2	toxaphene-4		0.025	0.000	100.0#	0#	-6.03#
37	l2	toxaphene-5		0.039	0.000	100.0#	0#	-6.11#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.92#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.109	0.000	100.0#	0#	-2.52#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.89#
4		alpha-BHC		1.369	0.000	100.0#	0#	-3.00#
5		gamma-BHC (lindane)		1.336	0.000	100.0#	0#	-3.32#
6		beta-BHC	*	50.000	0.000	100.0#	0	-3.39#
7		delta-BHC		1.265	0.000	100.0#	0#	-3.68#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 05 Jun 2024 07:10 pm
Operator : pest20:jag
Sample   : wg1930283-2,42,, chlor11540 (Sig #1); chlor11540 (Sig #2)
Misc   : wg1930283,,ical21144
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 05 19:23:20 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 19:23:11 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8		Heptachlor		1.260	0.000	100.0#	0#	-3.75#
9		Aldrin		1.185	0.000	100.0#	0#	-4.09#
10		Alachlor		0.188	0.000	100.0#	0#	-3.97#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-4.35#
12		Heptachlor Epoxide		1.198	0.000	100.0#	0#	-4.75#
13		gamma-Chlordane (trans)		1.060	0.000	100.0#	0#	-4.97#
14		alpha-Chlordane (cis)		1.173	0.000	100.0#	0#	-5.13#
15		4,4'-DDE		1.143	0.000	100.0#	0#	-5.32#
16		Endosulfan I		1.098	0.000	100.0#	0#	-5.19#
17		Dieldrin		1.122	0.000	100.0#	0#	-5.48#
18		Endrin		1.138	0.000	100.0#	0#	-5.77#
19		4,4'-DDD		0.922	0.000	100.0#	0#	-5.88#
20		Endosulfan II		1.035	0.000	100.0#	0#	-5.96#
21		4,4'-DDT		1.005	0.000	100.0#	0#	-6.15#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-6.25#
23		Methoxychlor		0.583	0.000	100.0#	0#	-6.71#
24		Mirex	*	50.000	0.000	100.0#	0	-6.85#
25		Endosulfan Sulfate		0.976	0.000	100.0#	0#	-6.48#
26		Endrin Ketone		1.124	0.000	100.0#	0#	-6.89#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.77#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.93#
34	l2	toxaphene-1		0.022	0.000	100.0#	0#	-5.92#
35	l2	toxaphene-2		0.032	0.000	100.0#	0#	-5.95#
36	l2	toxaphene-4		0.038	0.000	100.0#	0#	-6.26#
37	l2	toxaphene-5		0.036	0.000	100.0#	0#	-6.66#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 07:10 pm
Operator : pest20:jag
Sample : wg1930283-2,42,, chlor11540 (Sig #1); chlor11540 (Sig #2)
Misc : wg1930283,,ical21144
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 05 19:23:20 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 19:23:11 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.883	1.925	60675333	92176991	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 07:10 pm
Operator : pest20:jag
Sample : wg1930283-2,42,, chlor11540 (Sig #1); chlor11540 (Sig #2)
Misc : wg1930283,,ical21144
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 05 19:23:20 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 19:23:11 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	3.300	3.603	87861364	129.5E6	989.481	1099.299
30) l1	chlordane-3	3.771	4.256	107.8E6	144.3E6	984.310	1027.477
31) l1	chlordane-4	4.382	4.969	373.5E6	495.1E6	979.536	1057.424
32) l1	chlordane-5	4.515	5.133	578.2E6	391.2E6	989.222	1054.827
Sum	chlordane-1			1147.4E6	1160.2E6	N.D.	N.D. D
Average	chlordane-1					985.637	1059.756
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

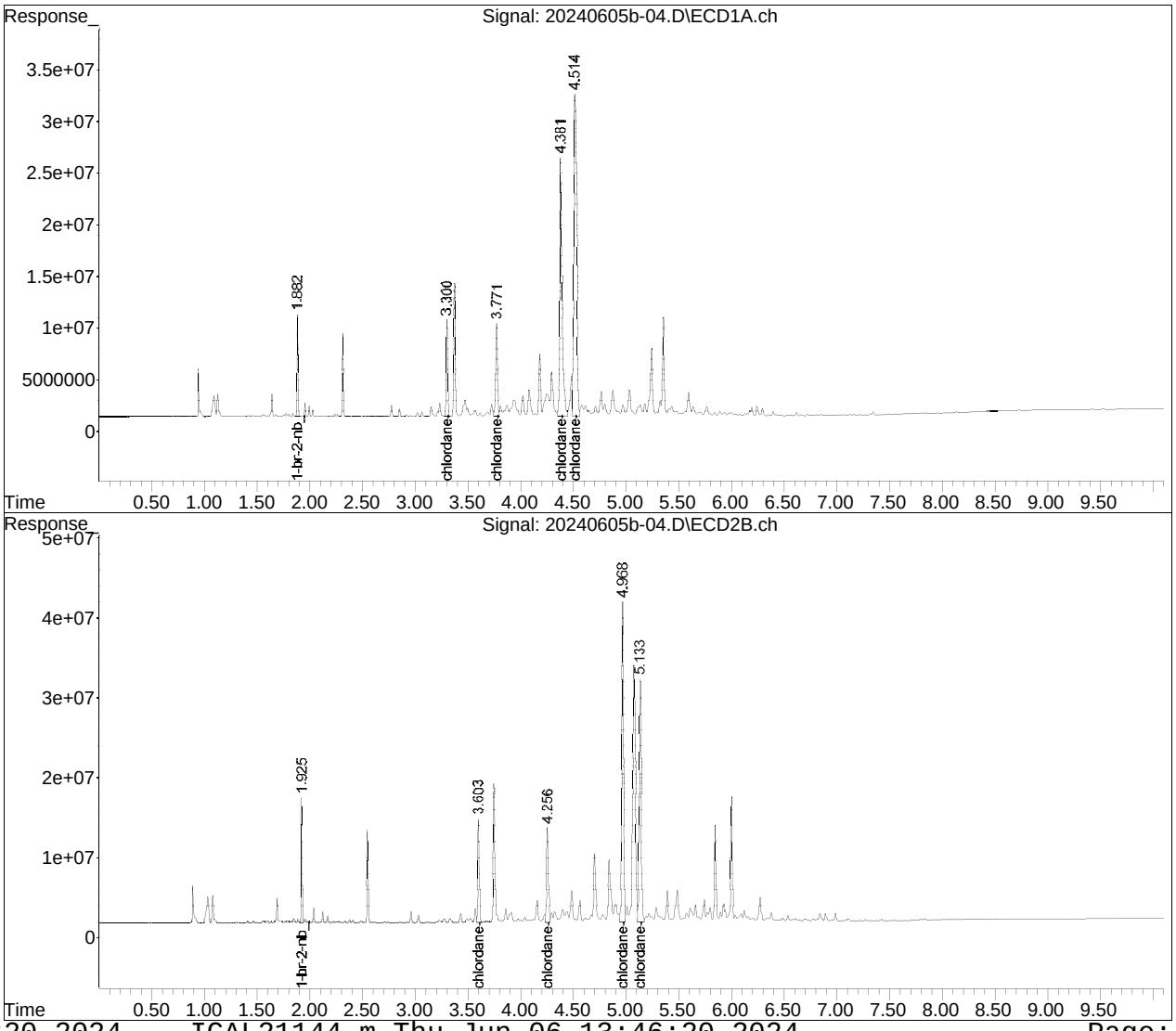
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 07:10 pm
Operator : pest20:jag
Sample : wg1930283-2,42,, chlor11540 (Sig #1); chlor11540 (Sig #2)
Misc : wg1930283,,ical21144
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 05 19:23:20 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 19:23:11 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest20\2024\240605Q	Method	: pest20_2024_05_14_ugL_IC
Data File	: 20240605b-04.D	Operator	: pest20:jag
Date Inj'd	: 6/5/2024 7:10 pm	Instrument	: PEST 20
Sample	: wg1930283-2,42,, chlor1154	Quant Date	: 6/5/2024 7:23 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 05 Jun 2024 07:23 pm
Operator : pest20:jag
Sample   : wg1930283-3,42,, tox11541 (Sig #1); tox11541 (Sig #2)
Misc   : wg1930283,,ical21144
ALS Vial : 5   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 05 20:32:25 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:13 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	112	0.00
34	l2	toxaphene-1		0.042	0.039	7.1	112	0.00
35	l2	toxaphene-2		0.031	0.033	-6.5	126	0.00
36	l2	toxaphene-4		0.025	0.022	12.0	108	0.00
37	l2	toxaphene-5		0.039	0.037	5.1	117	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	128	0.00
34	l2	toxaphene-1		0.022	0.022	0.0	138	0.00
35	l2	toxaphene-2		0.032	0.033	-3.1	137	0.00
36	l2	toxaphene-4		0.038	0.036	5.3	127	0.00
37	l2	toxaphene-5		0.036	0.035	2.8	134	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.88#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.150	0.000	100.0#	0#	-2.35#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.61#
4		alpha-BHC		1.370	0.000	100.0#	0#	-2.73#
5		gamma-BHC (lindane)		1.310	0.000	100.0#	0#	-2.97#
6		beta-BHC	*	50.000	0.000	100.0#	0	-3.04#
7		delta-BHC		1.132	0.000	100.0#	0#	-3.19#
8		Heptachlor		1.317	0.000	100.0#	0#	-3.37#
9		Aldrin		1.296	0.000	100.0#	0#	-3.65#
10		Alachlor		0.174	0.000	100.0#	0#	-3.79#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.89#
12		Heptachlor Epoxide		1.267	0.000	100.0#	0#	-4.25#
13		gamma-Chlordane (trans)		1.158	0.000	100.0#	0#	-4.38#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 05 Jun 2024 07:23 pm
Operator : pest20:jag
Sample   : wg1930283-3,42,, tox11541 (Sig #1); tox11541 (Sig #2)
Misc   : wg1930283,,ical21144
ALS Vial : 5   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 05 20:32:25 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:13 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)		1.322	0.000	100.0#	0#	-4.53#
15		4,4'-DDE		1.213	0.000	100.0#	0#	-4.63#
16		Endosulfan I		1.204	0.000	100.0#	0#	-4.68#
17		Dieldrin		1.227	0.000	100.0#	0#	-4.95#
18		Endrin		1.228	0.000	100.0#	0#	-5.19#
19		4,4'-DDD		0.864	0.000	100.0#	0#	-5.29#
20		Endosulfan II		1.044	0.000	100.0#	0#	-5.42#
21		4,4'-DDT		0.935	0.000	100.0#	0#	-5.57#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.82#
23		Methoxychlor		0.480	0.000	100.0#	0#	-6.04#
24		Mirex	*	50.000	0.000	100.0#	0	-6.11#
25		Endosulfan Sulfate		0.858	0.000	100.0#	0#	-6.20#
26		Endrin Ketone		0.968	0.000	100.0#	0#	-6.43#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.22#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.88#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-3.30#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.77#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-4.38#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.51#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.92#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.109	0.000	100.0#	0#	-2.52#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.89#
4		alpha-BHC		1.369	0.000	100.0#	0#	-3.00#
5		gamma-BHC (lindane)		1.336	0.000	100.0#	0#	-3.32#
6		beta-BHC	*	50.000	0.000	100.0#	0	-3.39#
7		delta-BHC		1.265	0.000	100.0#	0#	-3.68#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 05 Jun 2024 07:23 pm
Operator : pest20:jag
Sample   : wg1930283-3,42,, tox11541 (Sig #1); tox11541 (Sig #2)
Misc   : wg1930283,,ical21144
ALS Vial : 5   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 05 20:32:25 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:13 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8		Heptachlor		1.260	0.000	100.0#	0#	-3.75#
9		Aldrin		1.185	0.000	100.0#	0#	-4.09#
10		Alachlor		0.188	0.000	100.0#	0#	-3.97#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-4.35#
12		Heptachlor Epoxide		1.198	0.000	100.0#	0#	-4.75#
13		gamma-Chlordane (trans)		1.060	0.000	100.0#	0#	-4.97#
14		alpha-Chlordane (cis)		1.173	0.000	100.0#	0#	-5.13#
15		4,4'-DDE		1.143	0.000	100.0#	0#	-5.32#
16		Endosulfan I		1.098	0.000	100.0#	0#	-5.19#
17		Dieldrin		1.122	0.000	100.0#	0#	-5.48#
18		Endrin		1.138	0.000	100.0#	0#	-5.77#
19		4,4'-DDD		0.922	0.000	100.0#	0#	-5.88#
20		Endosulfan II		1.035	0.000	100.0#	0#	-5.96#
21		4,4'-DDT		1.005	0.000	100.0#	0#	-6.15#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-6.25#
23		Methoxychlor		0.583	0.000	100.0#	0#	-6.71#
24		Mirex	*	50.000	0.000	100.0#	0	-6.85#
25		Endosulfan Sulfate		0.976	0.000	100.0#	0#	-6.48#
26		Endrin Ketone		1.124	0.000	100.0#	0#	-6.89#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.77#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.93#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-3.60#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-4.26#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-4.97#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-5.13#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 07:23 pm
Operator : pest20:jag
Sample : wg1930283-3,42,, tox11541 (Sig #1); tox11541 (Sig #2)
Misc : wg1930283,,ical21144
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 05 20:32:25 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:13 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.883	1.925	60324195	91196091	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 07:23 pm
Operator : pest20:jag
Sample : wg1930283-3,42,, tox11541 (Sig #1); tox11541 (Sig #2)
Misc : wg1930283,,ical21144
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 05 20:32:25 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:13 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	5.411	5.919	190.4E6	161.3E6	1894.375	2048.217
35) l2	toxaphene-2	5.934	5.948	161.0E6	238.7E6	2182.651	2028.086
36) l2	toxaphene-4	6.029	6.258	107.3E6	260.7E6	1775.666	1905.225
37) l2	toxaphene-5	6.112	6.663	179.6E6	255.5E6	1920.938	1925.360
Sum	toxaphene-1			638.3E6	916.2E6	7773.629	7906.889
Average	toxaphene-1					1943.407	1976.722

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			638.3E6	916.2E6	7773.629	7906.889
Average	toxaphene-1					1943.407	1976.722

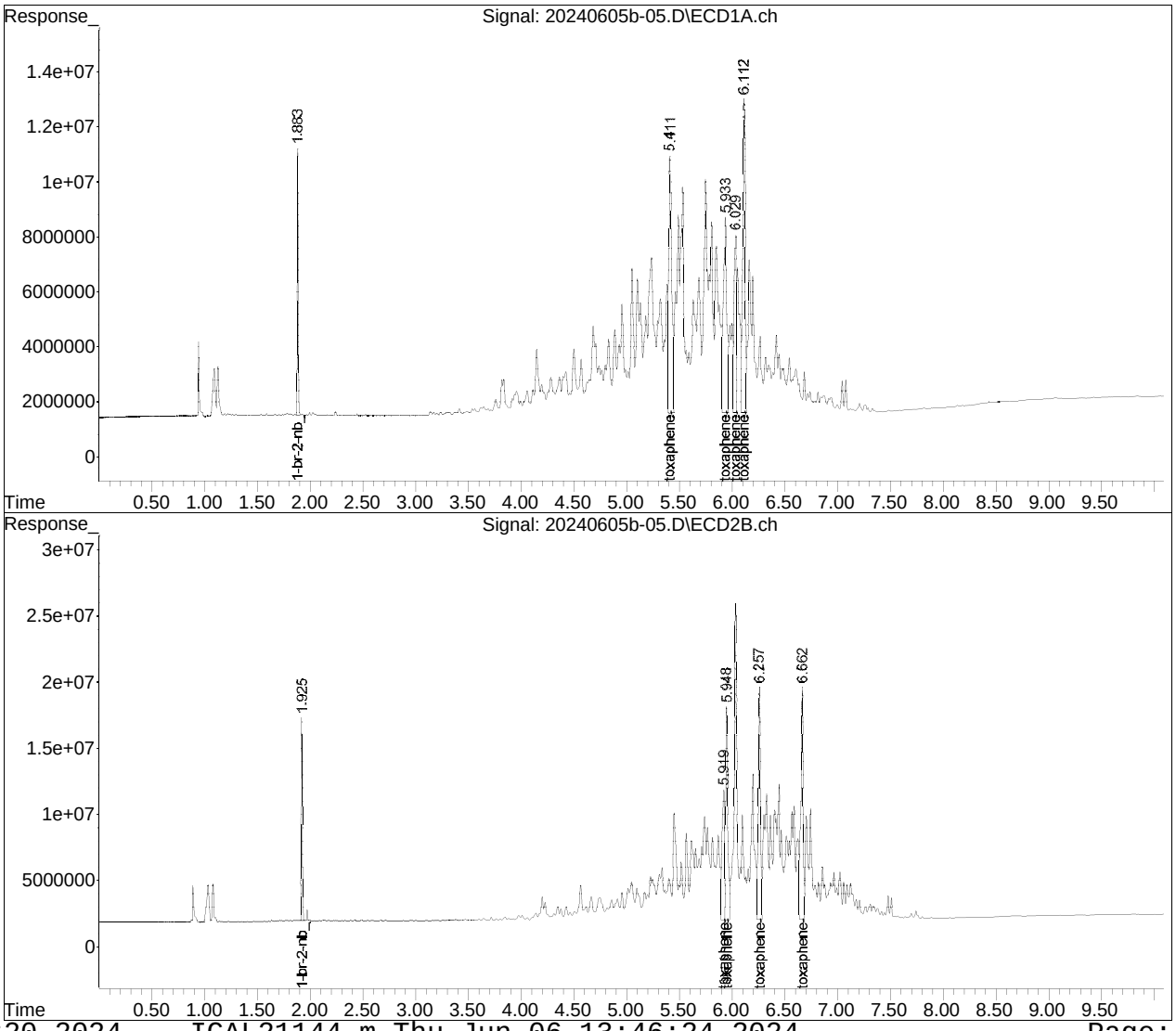
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 07:23 pm
Operator : pest20:jag
Sample : wg1930283-3,42,, tox11541 (Sig #1); tox11541 (Sig #2)
Misc : wg1930283,,ical21144
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 05 20:32:25 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:13 2024
Response via : Initial Calibration
Integrator: ChemStation

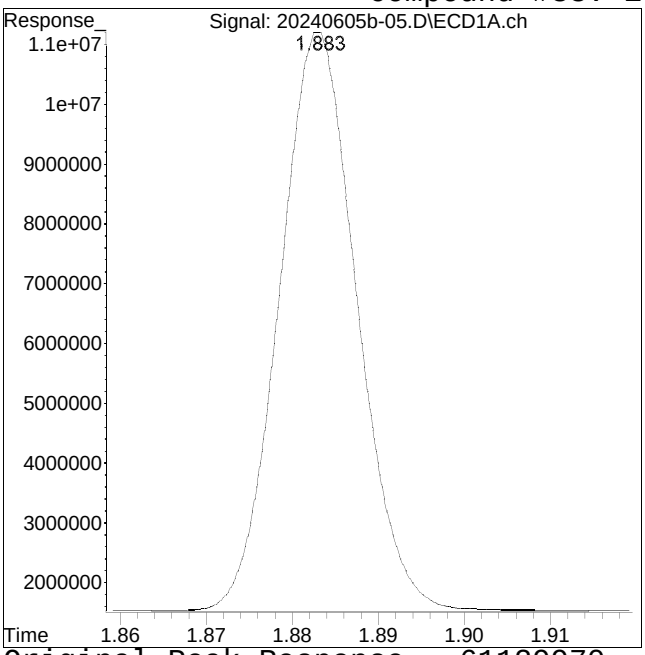
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



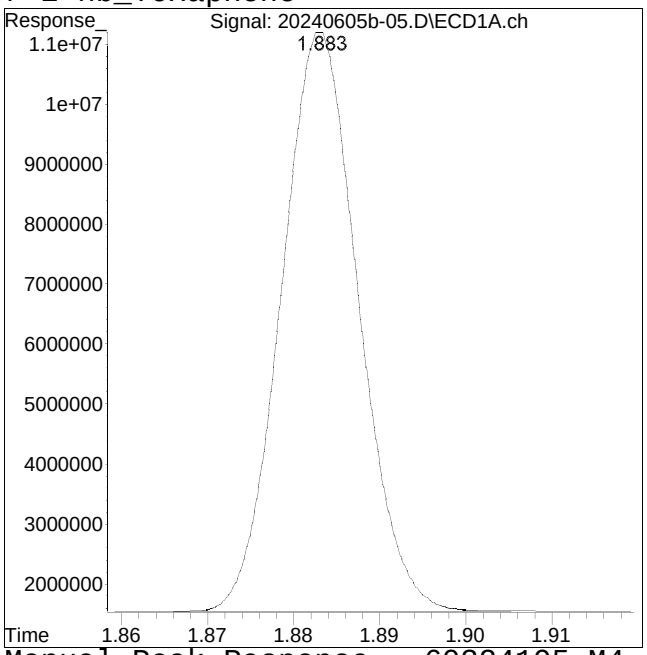
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-05.D Operator : pest20:jag
Date Inj'd : 6/5/2024 7:23 pm Instrument : PEST 20
Sample : wg1930283-3,42,, tox11541 Quant Date : 6/5/2024 8:32 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 61129970



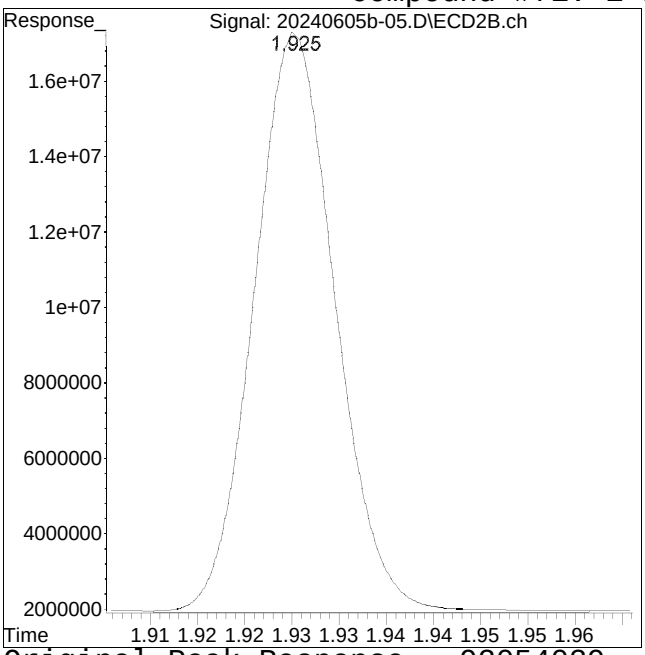
Manual Peak Response = 60324195 M4

M4 = Poor automated baseline construction.

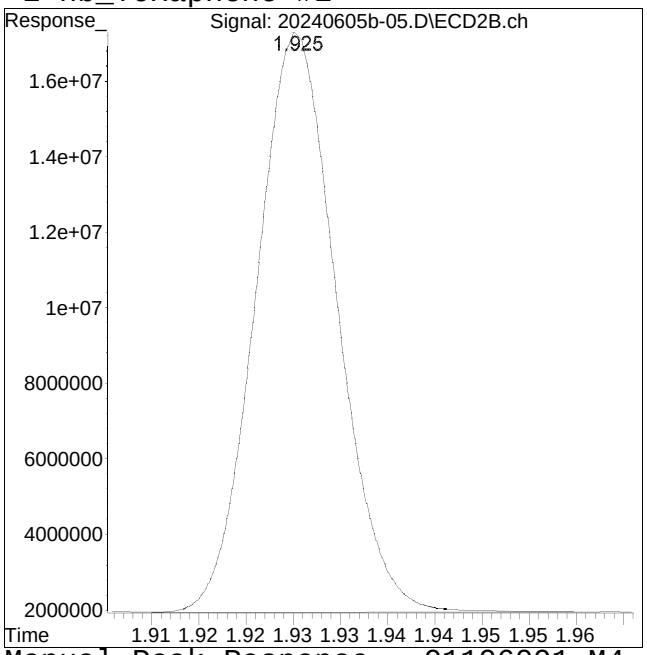
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-05.D Operator : pest20:jag
Date Inj'd : 6/5/2024 7:23 pm Instrument : PEST 20
Sample : wg1930283-3,42,, tox11541 Quant Date : 6/5/2024 8:32 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 92054039



Manual Peak Response = 91196091 M4

M4 = Poor automated baseline construction.

Degradation Check Standard

Performance Evaluation Mixture Summary
Form 15
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: PEST20	**Analysis Date**	: 06/05/24 18:45
PEM Standard	: R1837623-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	361923.47884	548983.55114
Endrin	141765164.00038	214722601.70604
4,4'-DDD	1686203.9156	2201715.27523
4,4'-DDT	235198910.07359	359574089.88941
Endrin Aldehyde	262768.84224	423612.13409
Endrin Ketone	887796.0399	1279517.12277

Parameter	%Breakdown 1	%Breakdown 2
Endrin	0.805	0.787
DDT	0.863	0.759

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 06:45 pm
Operator : pest20:jag
Sample : pem20240605b-01,42,, deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1930283,,ical21144
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 05 19:13:28 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 07:23:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.903f	1.925	51872452	81238598	25.000M4	25.000M4
	System Monitoring Compounds						
	Target Compounds						
15)	4,4'-DDE	4.655f	5.323	361923	548984	0.144	0.148M4
18)	Endrin	5.213f	5.766	141.8E6	214.7E6	55.646M4	58.039M4
19)	4,4'-DDD	5.314f	5.882	1686204	2201715	0.940M4	0.735M4
21)	4,4'-DDT	5.593f	6.154	235.2E6	359.6E6	121.172	110.121M3
22)	Endrin Aldeh	5.846f	6.252	262769	423612	0.012	N.D. M4
D							
26)	Endrin Keton	6.448f	6.888	887796	1279517	0.442M4	0.350M4
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 06:45 pm
Operator : pest20:jag
Sample : pem20240605b-01,42,, deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1930283,,ical21144
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 05 19:13:28 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 07:23:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

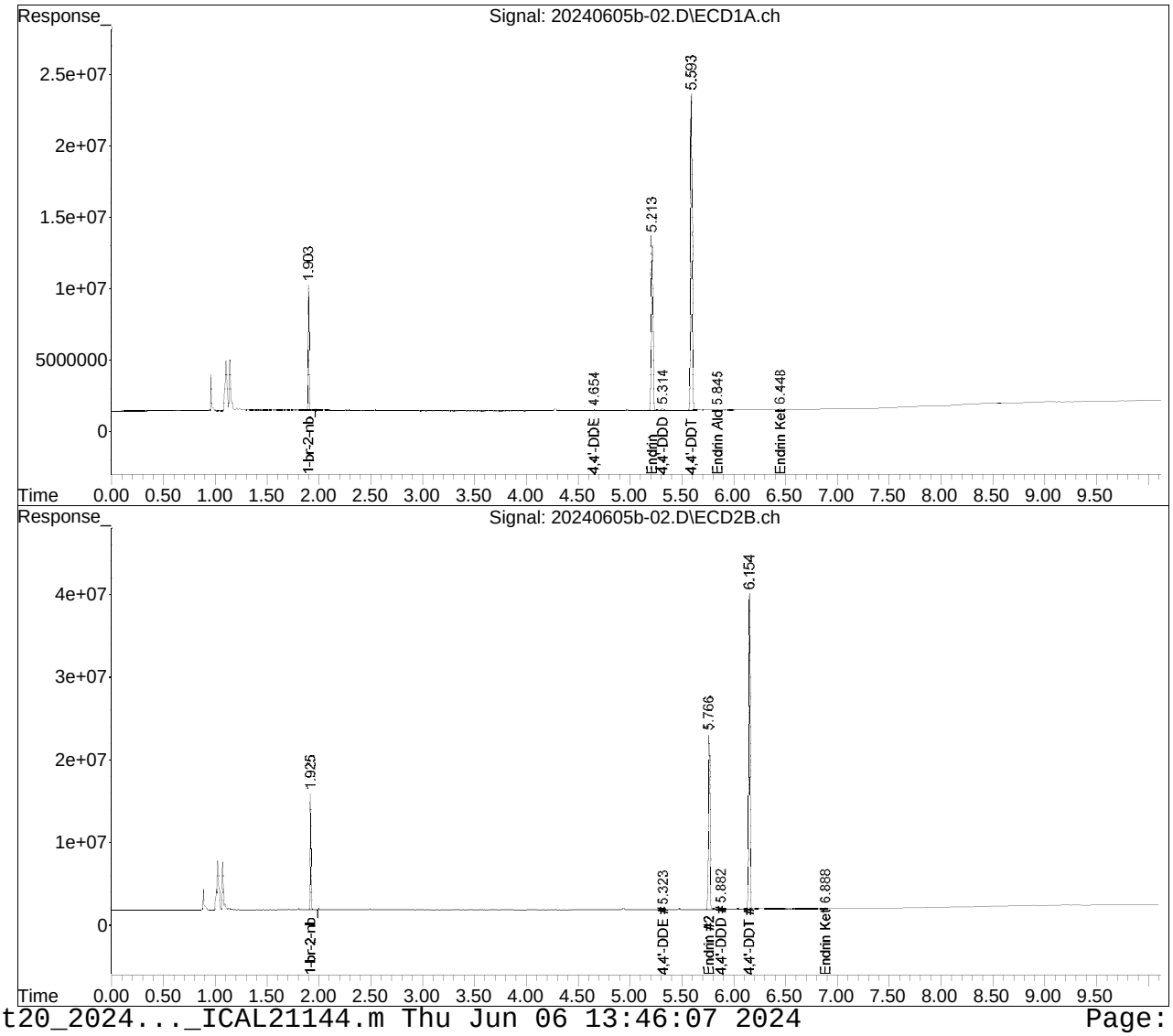
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 06:45 pm
Operator : pest20:jag
Sample : pem20240605b-01,42,, deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1930283,,ical21144
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 05 19:13:28 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 07:23:49 2024
Response via : Initial Calibration
Integrator: ChemStation

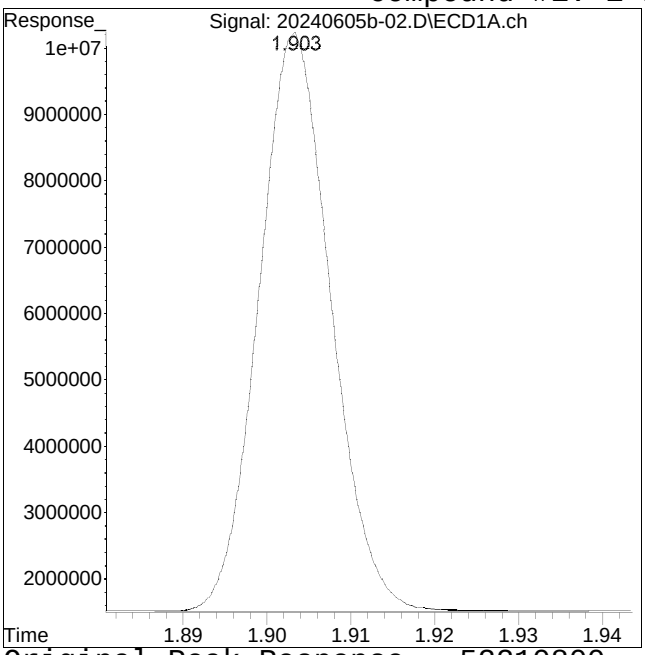
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



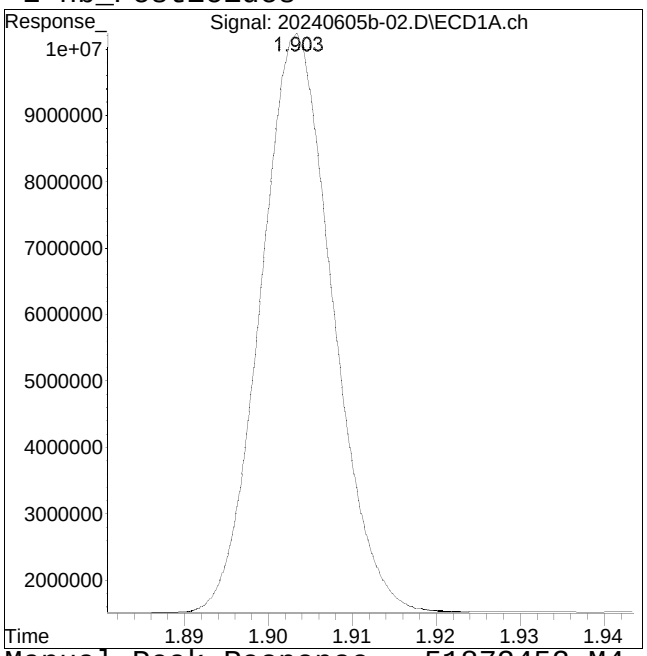
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-02.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:45 pm Instrument : PEST 20
Sample : pem20240605b-01,42,, deg11Quant Date : 6/5/2024 7:13 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 52210800



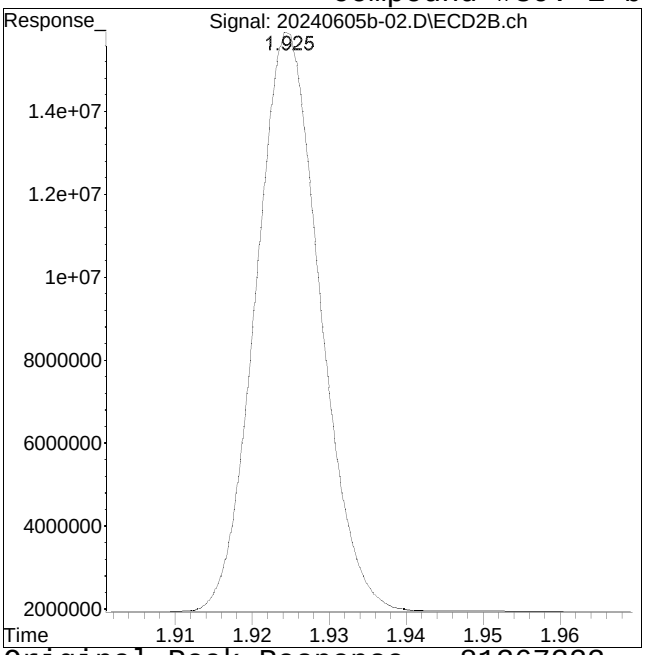
Manual Peak Response = 51872452 M4

M4 = Poor automated baseline construction.

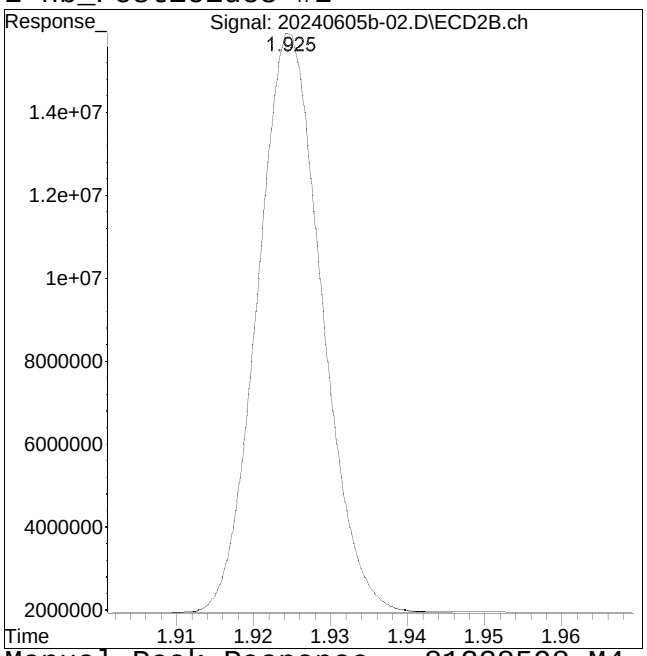
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-02.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:45 pm Instrument : PEST 20
Sample : pem20240605b-01,42,, deg11Quant Date : 6/5/2024 7:13 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 81367333



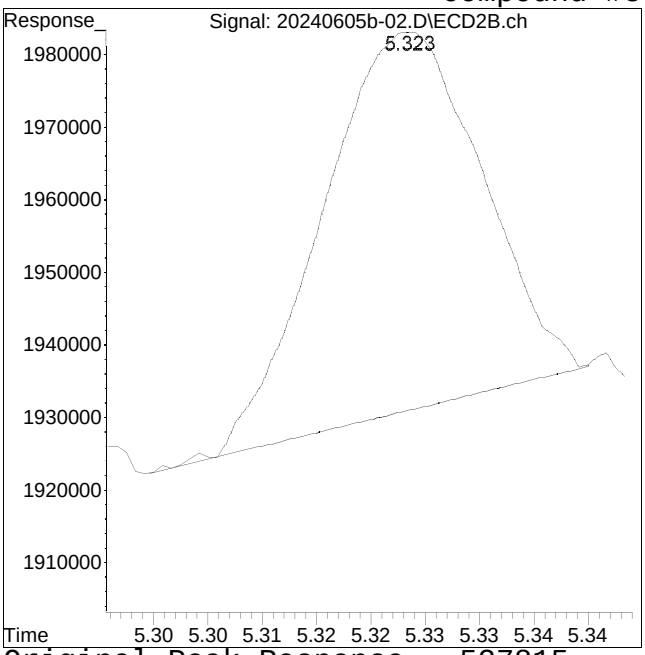
Manual Peak Response = 81238598 M4

M4 = Poor automated baseline construction.

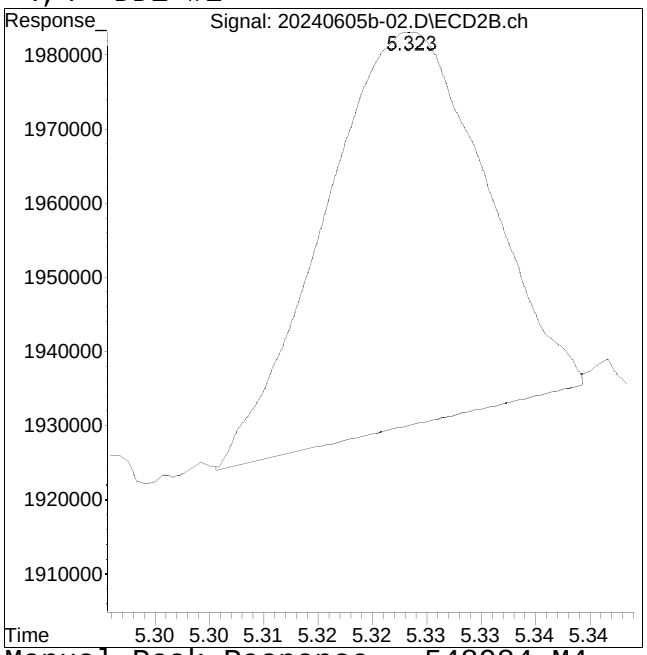
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-02.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:45 pm Instrument : PEST 20
Sample : pem20240605b-01,42,, deg11Quant Date : 6/5/2024 7:13 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 527815



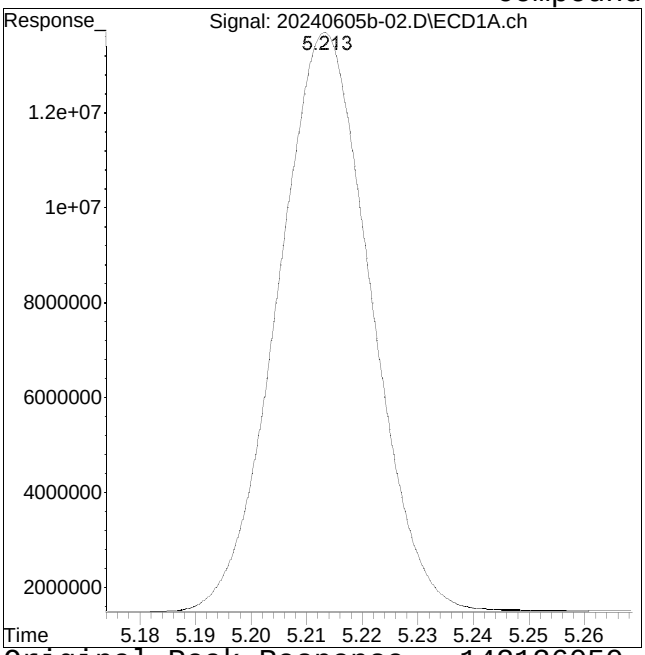
Manual Peak Response = 548984 M4

M4 = Poor automated baseline construction.

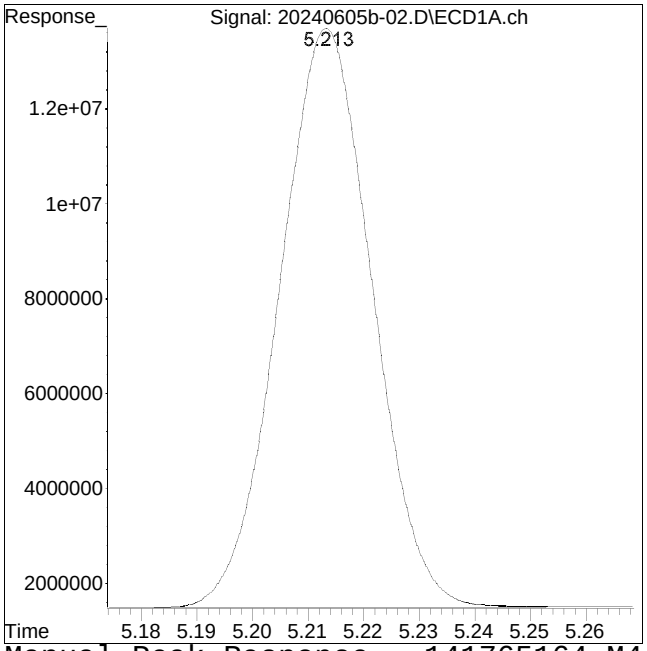
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-02.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:45 pm Instrument : PEST 20
Sample : pem20240605b-01,42,, deg11Quant Date : 6/5/2024 7:13 pm

Compound #18: Endrin



Original Peak Response = 142136050



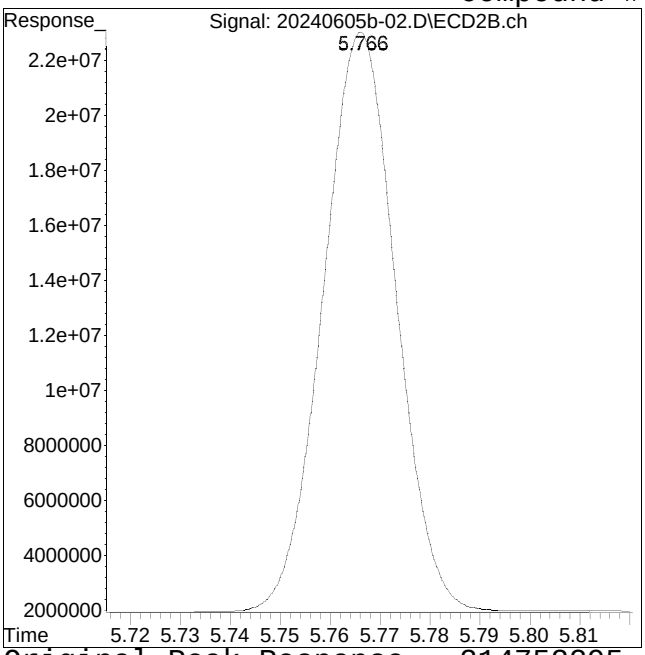
Manual Peak Response = 141765164 M4

M4 = Poor automated baseline construction.

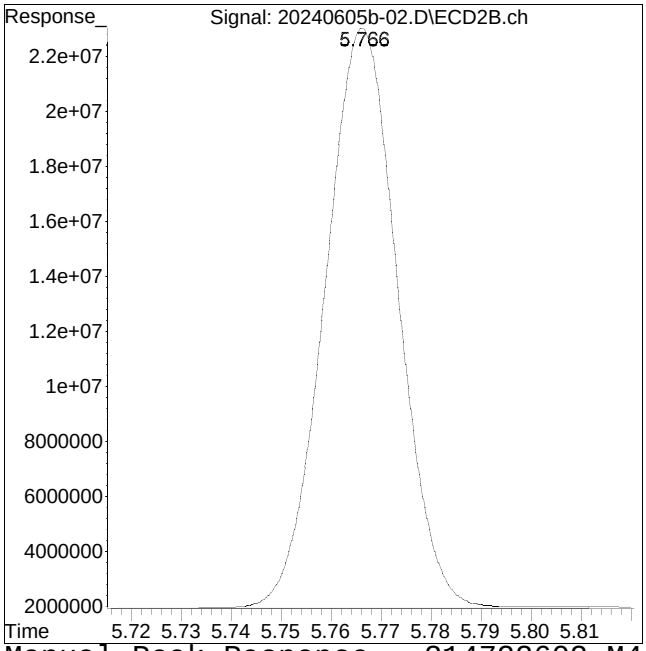
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-02.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:45 pm Instrument : PEST 20
Sample : pem20240605b-01,42,, deg11Quant Date : 6/5/2024 7:13 pm

Compound #56: Endrin #2



Original Peak Response = 214752295



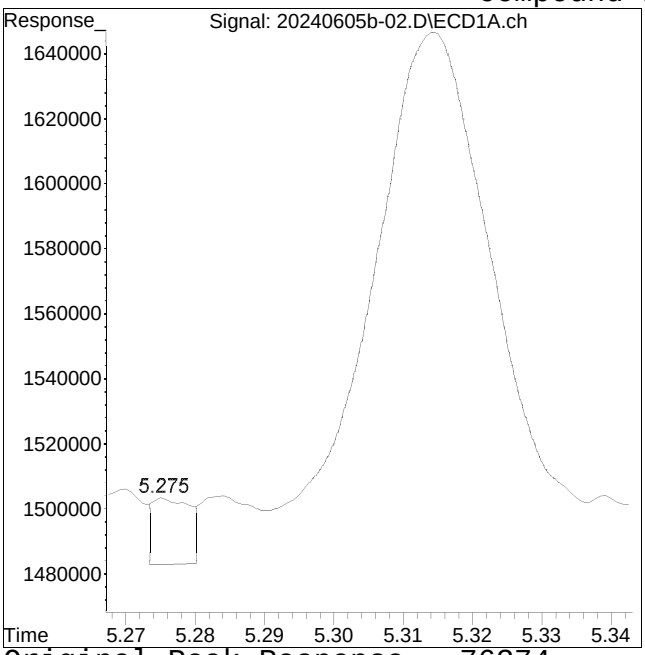
Manual Peak Response = 214722602 M4

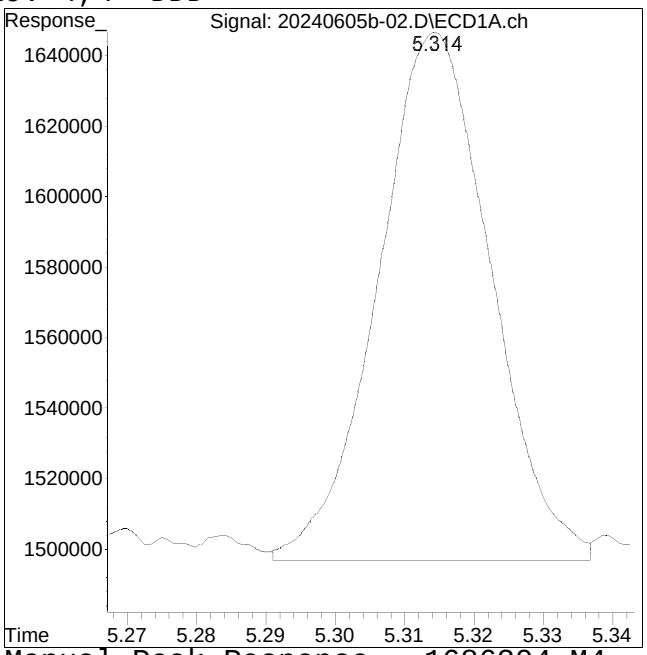
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-02.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:45 pm Instrument : PEST 20
Sample : pem20240605b-01,42,, deg11Quant Date : 6/5/2024 7:13 pm

Compound #19: 4,4'-DDD



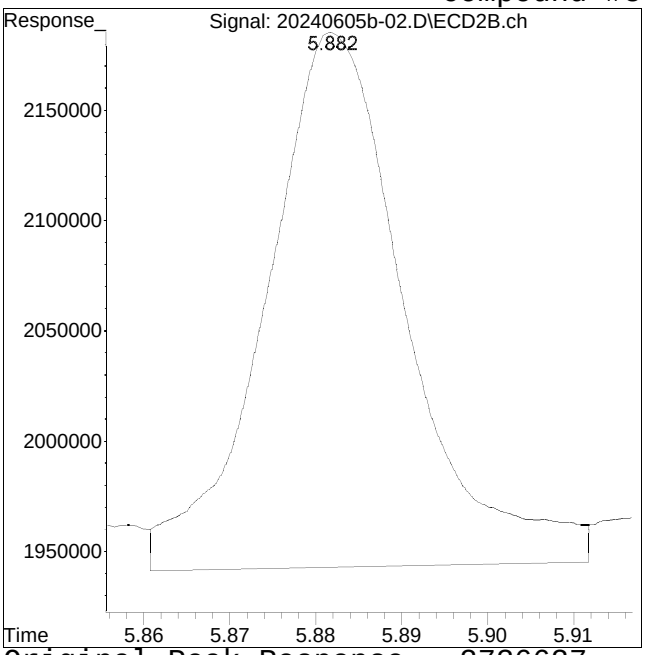


Original Peak Response = 76374 Manual Peak Response = 1686204 M4
M4 = Poor automated baseline construction.

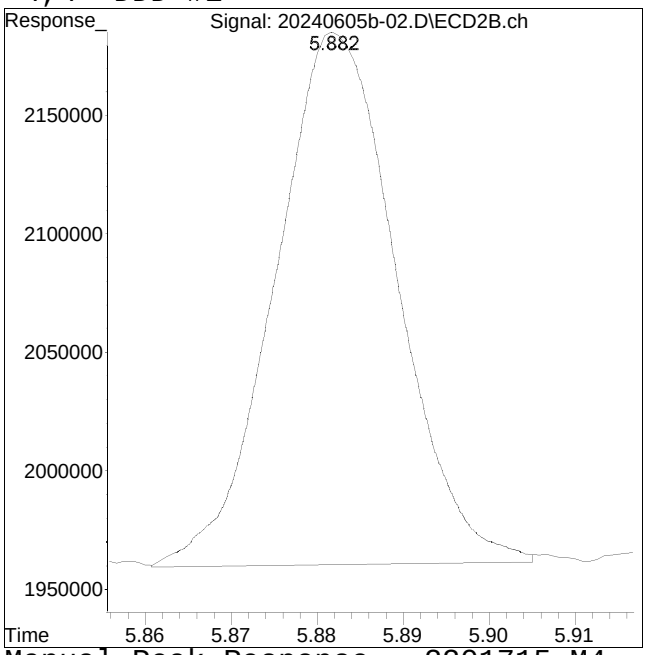
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-02.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:45 pm Instrument : PEST 20
Sample : pem20240605b-01,42,, deg11Quant Date : 6/5/2024 7:13 pm

Compound #57: 4,4'-DDD #2



Original Peak Response = 2736627



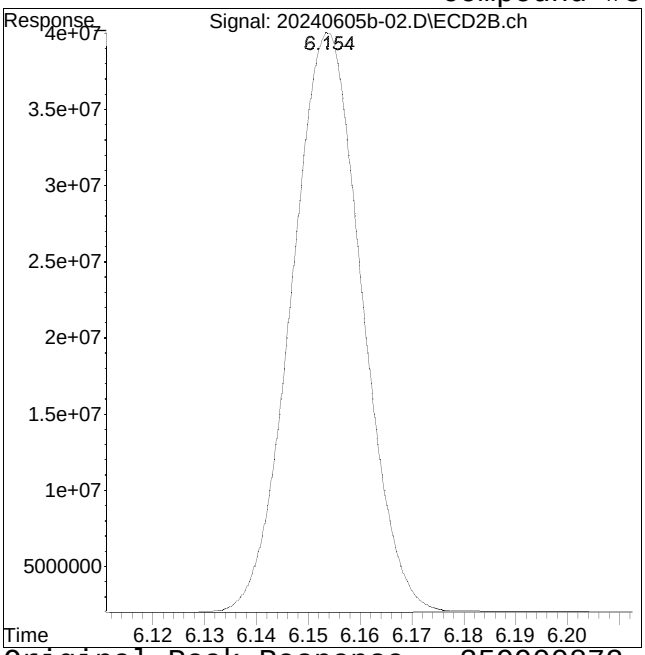
Manual Peak Response = 2201715 M4

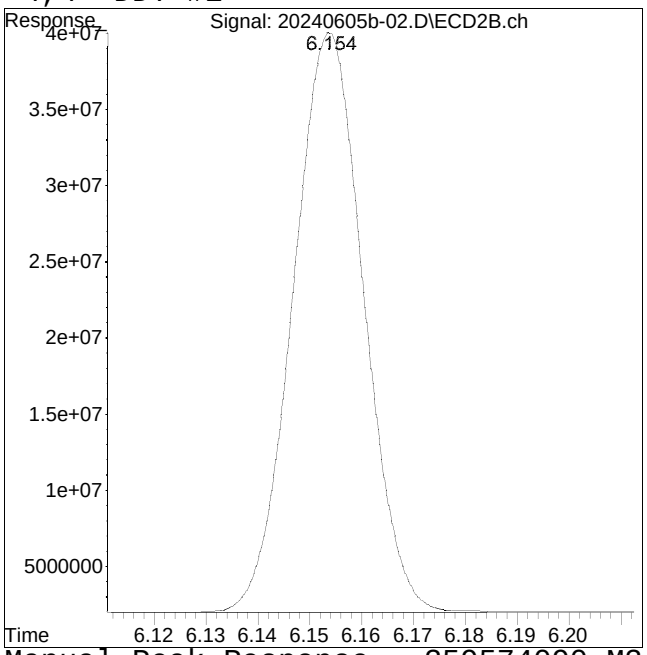
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-02.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:45 pm Instrument : PEST 20
Sample : pem20240605b-01,42,, deg11Quant Date : 6/5/2024 7:13 pm

Compound #59: 4,4'-DDT #2



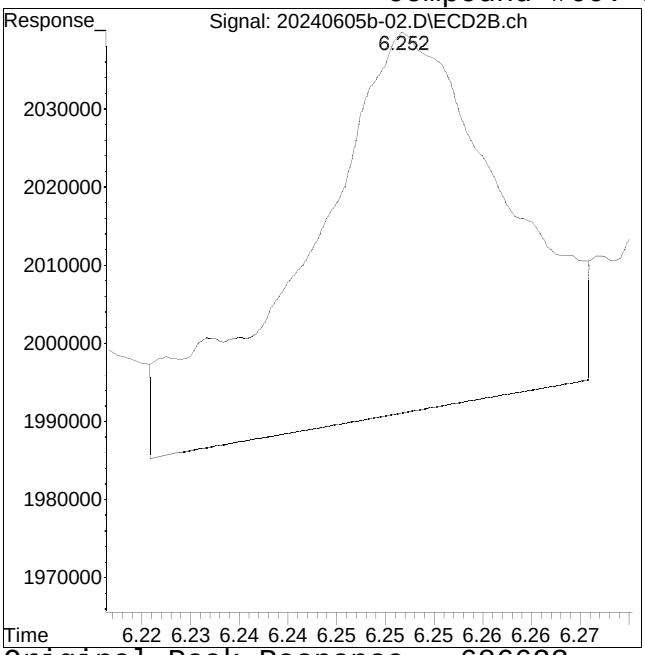


Original Peak Response = 359900872 Manual Peak Response = 359574090 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

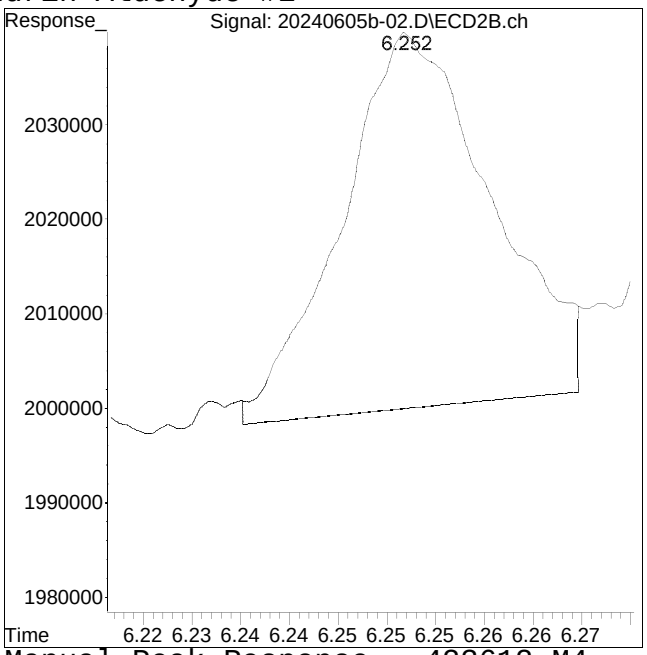
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-02.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:45 pm Instrument : PEST 20
Sample : pem20240605b-01,42,, deg11Quant Date : 6/5/2024 7:13 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 686623



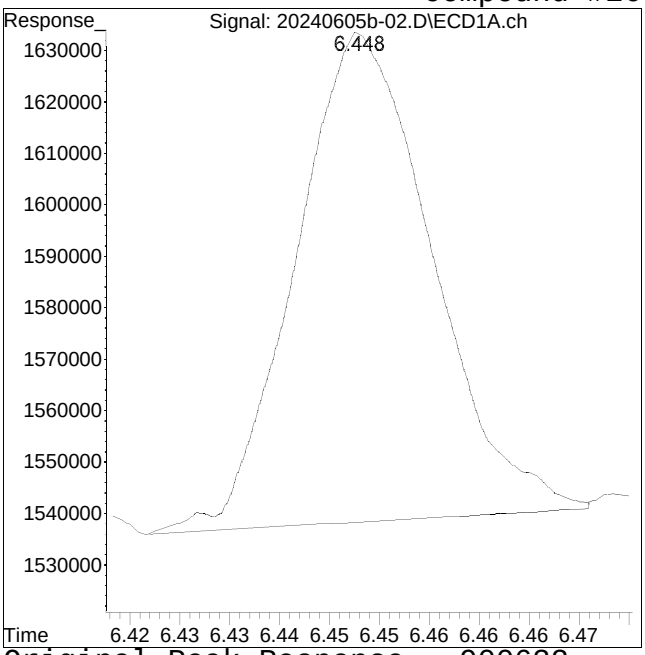
Manual Peak Response = 423612 M4

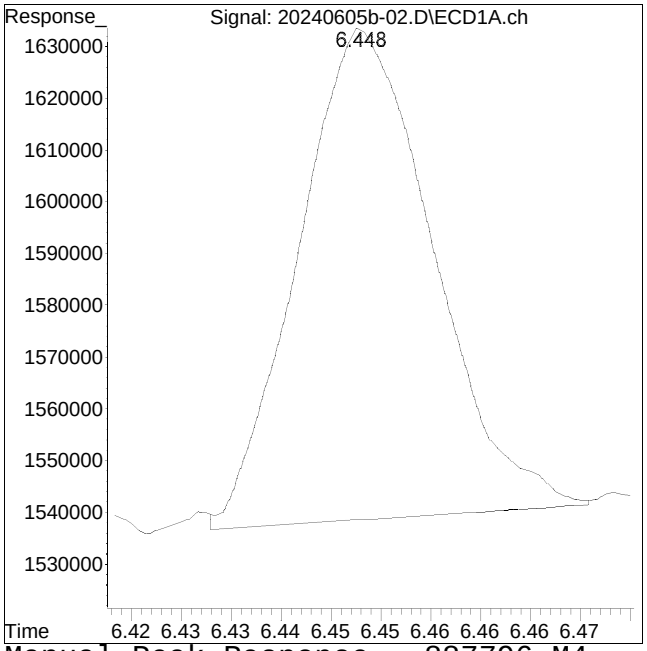
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-02.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:45 pm Instrument : PEST 20
Sample : pem20240605b-01,42,, deg11Quant Date : 6/5/2024 7:13 pm

Compound #26: Endrin Ketone



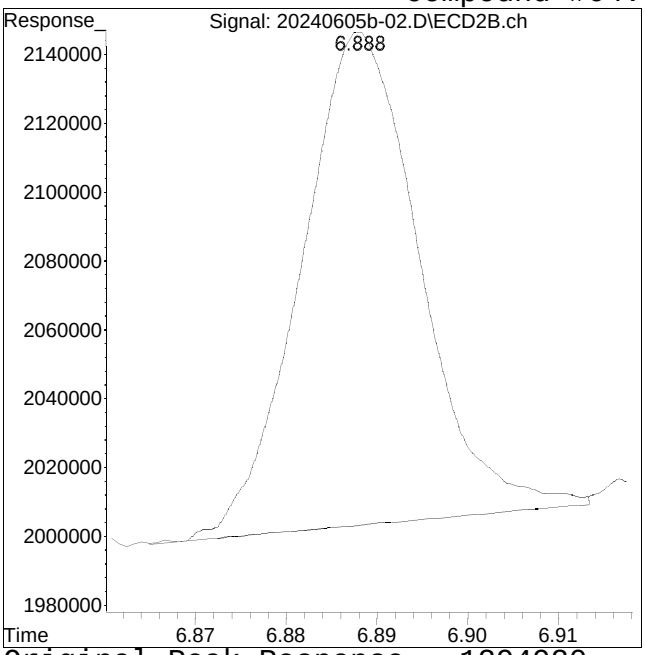


Original Peak Response = 900632 Manual Peak Response = 887796 M4
M4 = Poor automated baseline construction.

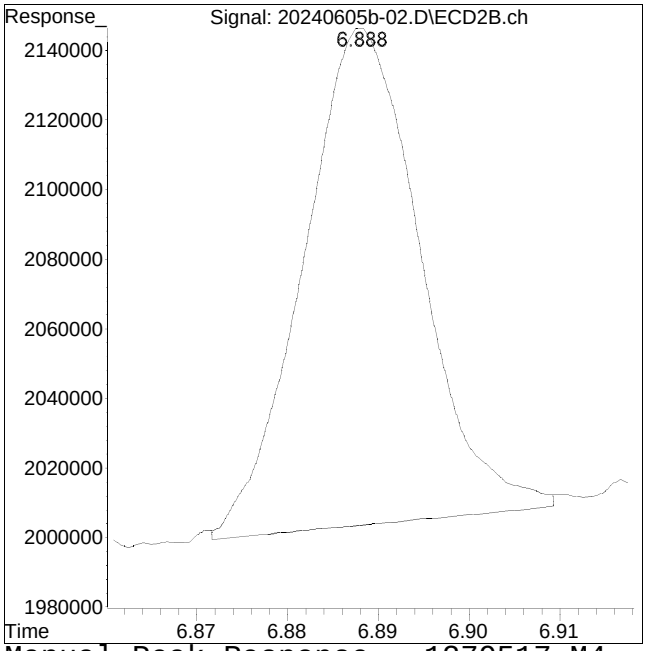
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-02.D Operator : pest20:jag
Date Inj'd : 6/5/2024 6:45 pm Instrument : PEST 20
Sample : pem20240605b-01,42,, deg11Quant Date : 6/5/2024 7:13 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 1294920



Manual Peak Response = 1279517 M4

M4 = Poor automated baseline construction.

RT Shift Summary

Identification Summary
Form 10
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2430219**
Project Name	**: HUNTINGTON READY MIXED**	**Project Number**	**: 20116**

No Detections Found

Pesticides Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-16.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 10:15 pm
Operator : pest20:ejl
Sample : WG1929733-1,42,, 733 734 (Sig #1); WG1929730-1,42,, 733 734 (Sig #2)
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:50:22 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240605b\20240605b-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.883	1.925	61527863	97557090	25.000	25.000
	Standard Area 1 : #1 = 60467879				Recovery =	101.75%	
	Standard Area 1 : #2 = 94939114				Recovery =	102.76%	
28) i	1-br-2-nb_Ch	1.883	1.925	61527863	97557090	25.000	25.000
33) i	1-br-2-nb_To	1.883	1.925	61527863	97557090	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.349	2.519	100.8E6	147.5E6	35.613	34.073M4
	Spiked Amount	50.000	Range 30 - 150		Recovery =	71.23%	68.15%
27) s	Decachlorobi	7.223	7.777	97270769	124.8E6	39.457	36.214M4
	Spiked Amount	50.000	Range 30 - 150		Recovery =	78.91%	72.43%
	Target Compounds						
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D.	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-16.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 10:15 pm
Operator : pest20:ejl
Sample : WG1929733-1,42,, 733 734 (Sig #1); WG1929730-1,42,, 733 734 (Sig #2)
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:50:22 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240605b\20240605b-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

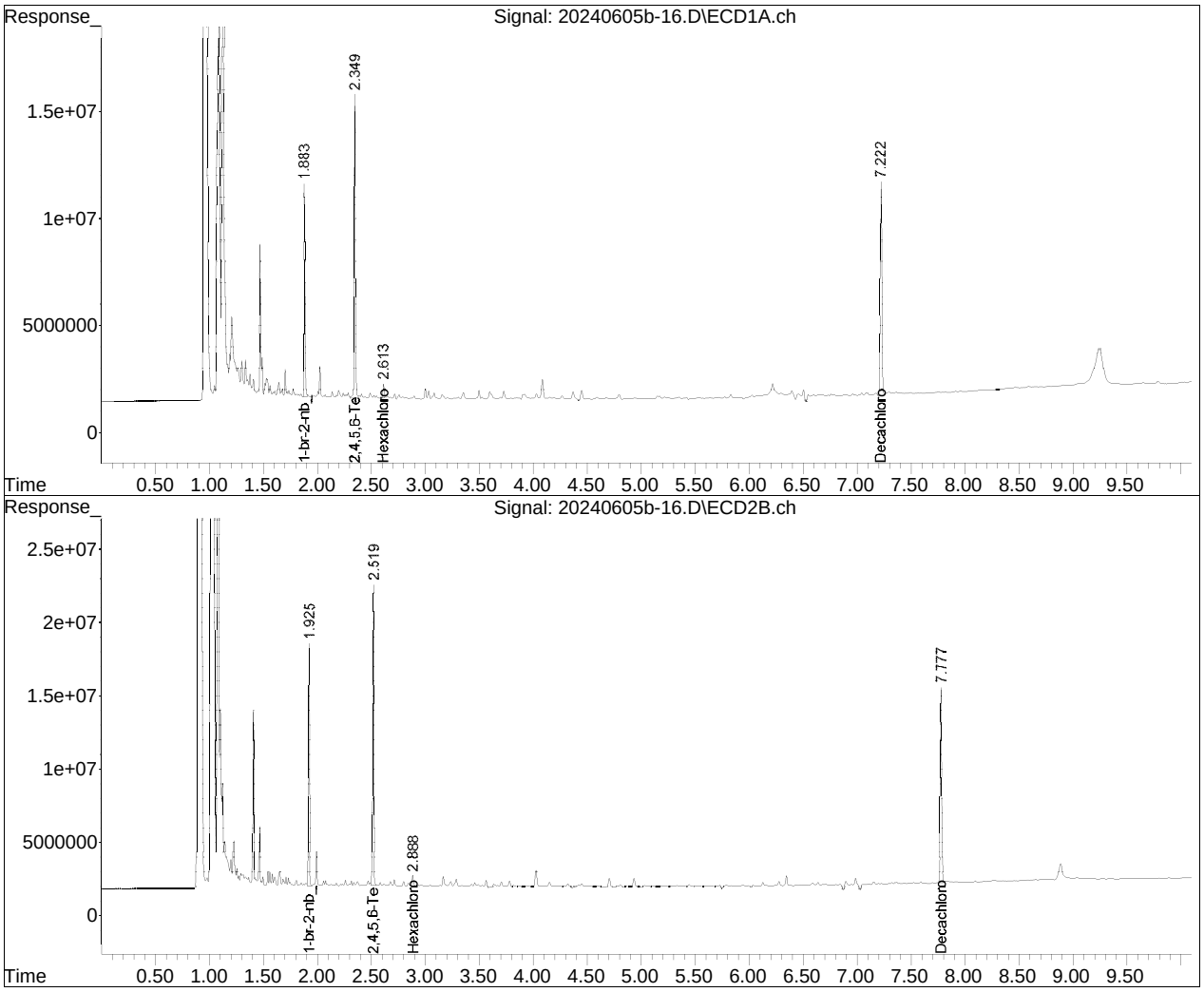
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedb\20240605b-03.D•

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-16.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 10:15 pm
Operator : pest20:ejl
Sample : WG1929733-1,42,, 733 734 (Sig #1); WG1929730-1,42,, 733 734 (Sig #
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:50:22 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

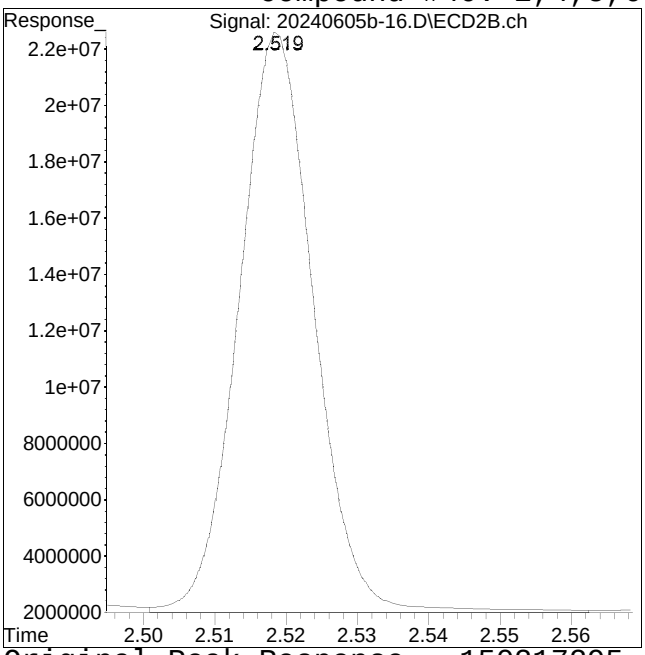
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

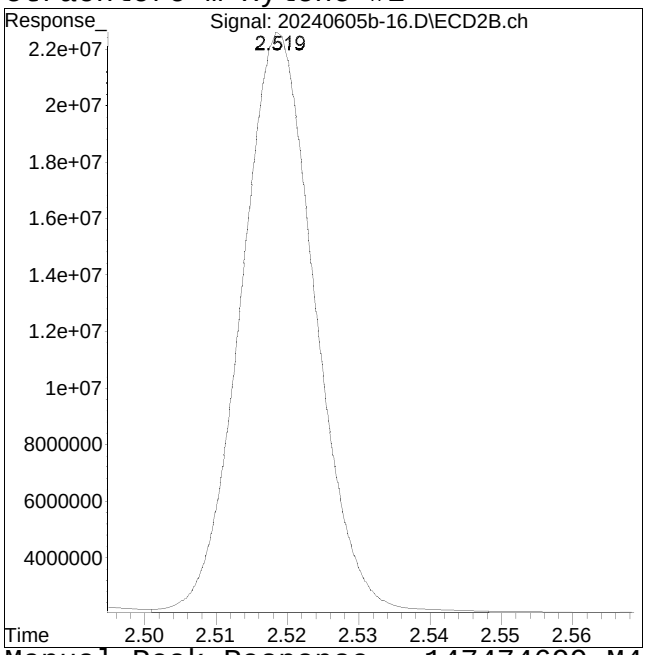


Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-16.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:15 pm Instrument : PEST 20
Sample : WG1929733-1,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



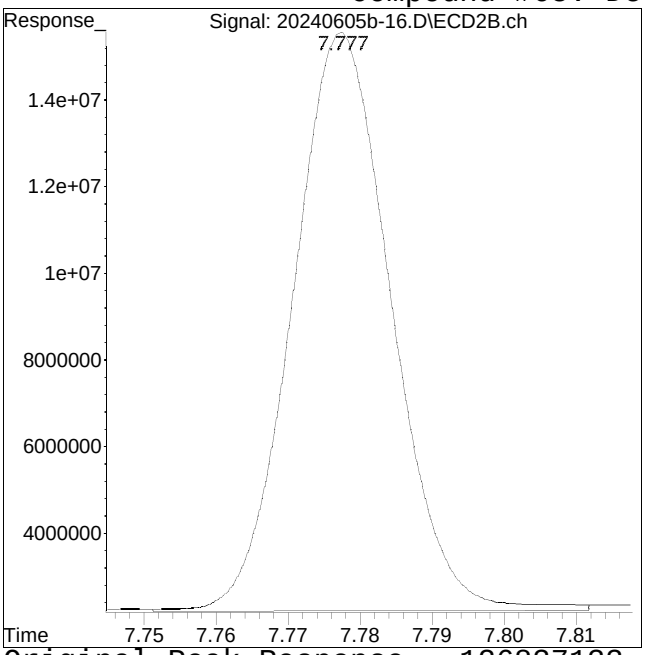


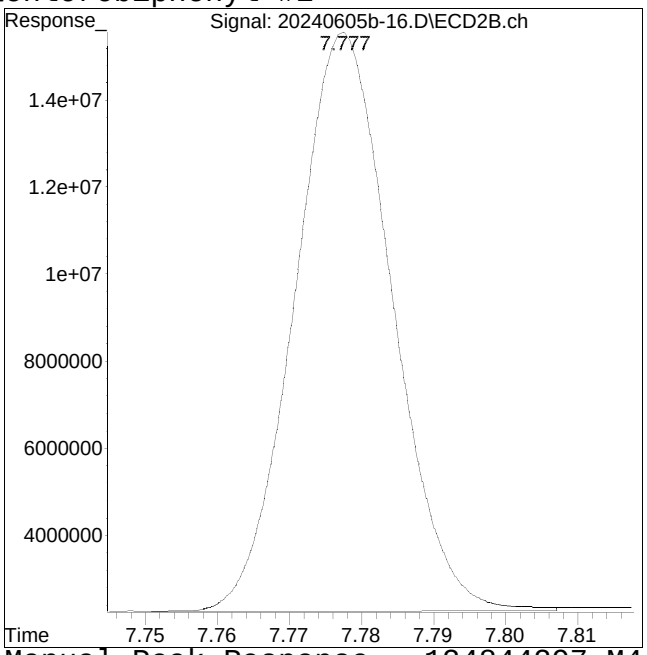
Original Peak Response = 150217295 Manual Peak Response = 147474699 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-16.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:15 pm Instrument : PEST 20
Sample : WG1929733-1,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 126837133 Manual Peak Response = 124844297 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-17.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 10:27 pm
Operator : pest20:ejl
Sample : WG1929733-2,42,, 733 734 (Sig #1); WG1929730-2,42,, 733 734 (Sig #2)
Misc : wg1930283,WG1929733,ical21144 (Sig #1); wg1930283,WG1929730,ical21144 (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:50:25 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240605b\20240605b-03.D
Sub List : LCS_MS - spk only

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	1.884	1.925	63610898	99836538	25.000	25.000M3
		Standard Area 1 : #1 = 60467879				Recovery = 105.20%		
		Standard Area 1 : #2 = 94939114				Recovery = 105.16%		
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	2.348	2.519	95796442	144.6E6	32.727M4	32.657M3
		Spiked Amount 50.000	Range 30 - 150		Recovery = 65.45%		65.31%	
27)	s	Decachlorobi	7.221	7.775	89195959	118.5E6	34.854M4	33.511M4
		Spiked Amount 50.000	Range 30 - 150		Recovery = 69.71%		67.02%	
		Target Compounds						
4)		alpha-BHC	2.733	3.001	125.3E6	197.7E6	35.948M4	36.150M4
5)		gamma-BHC (l	2.973	3.319	116.0E6	181.4E6	34.790	34.003M3
6)		beta-BHC	3.042	3.393	59822511	89793588	41.716	39.124M4
7)		delta-BHC	3.189	3.683	115.0E6	174.1E6	39.907	34.483M3
8)		Heptachlor	3.372	3.750	110.4E6	162.9E6	32.931M3	32.379M4
9)		Aldrin	3.645	4.092	107.1E6	159.4E6	32.477M4	33.686M4
12)		Heptachlor E	4.246	4.744	103.4E6	149.0E6	32.067M4	31.151M4
13)		gamma-Chlord	4.382	4.969	112.8E6	155.9E6	38.309	36.852M3
14)		alpha-Chlord	4.527	5.132	98385957	153.6E6	29.246M4	32.795M4
15)		4,4'-DDE	4.633	5.322	103.6E6	150.9E6	33.566M4	33.065M4
16)		Endosulfan I	4.674	5.191	97119882	146.5E6	31.700M4	33.409M4
17)		Dieldrin	4.948	5.475	111.6E6	150.3E6	35.745M4	33.538M3
18)		Endrin	5.192	5.766	105.6E6	158.0E6	33.810M4	34.747
19)		4,4'-DDD	5.293	5.882	84604283	134.1E6	38.466M4	36.411M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-17.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 10:27 pm
Operator : pest20:ejl
Sample : WG1929733-2,42,, 733 734 (Sig #1); WG1929730-2,42,, 733 734 (Sig #2)
Misc : wg1930283,WG1929733,ical21144 (Sig #1); wg1930283,WG1929730,ical21144 (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:50:25 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240605b\20240605b-03.D
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
20)	Endosulfan I	5.419	5.960	81039537	144.6E6	30.494M4	34.991M3
21)	4,4'-DDT	5.572	6.153	88263810	135.6E6	37.081M4	33.799M4
22)	Endrin Aldeh	5.822	6.250	68294257	97703852	34.092M4	30.679M4
23)	Methoxychlor	6.038	6.708	50458929	76039844	41.315M4	32.635M4
25)	Endosulfan S	6.203	6.476	99650057	133.0E6	45.648M3	34.113M4
26)	Endrin Keton	6.427	6.888	76359846	146.2E6	30.995M4	32.556M4
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

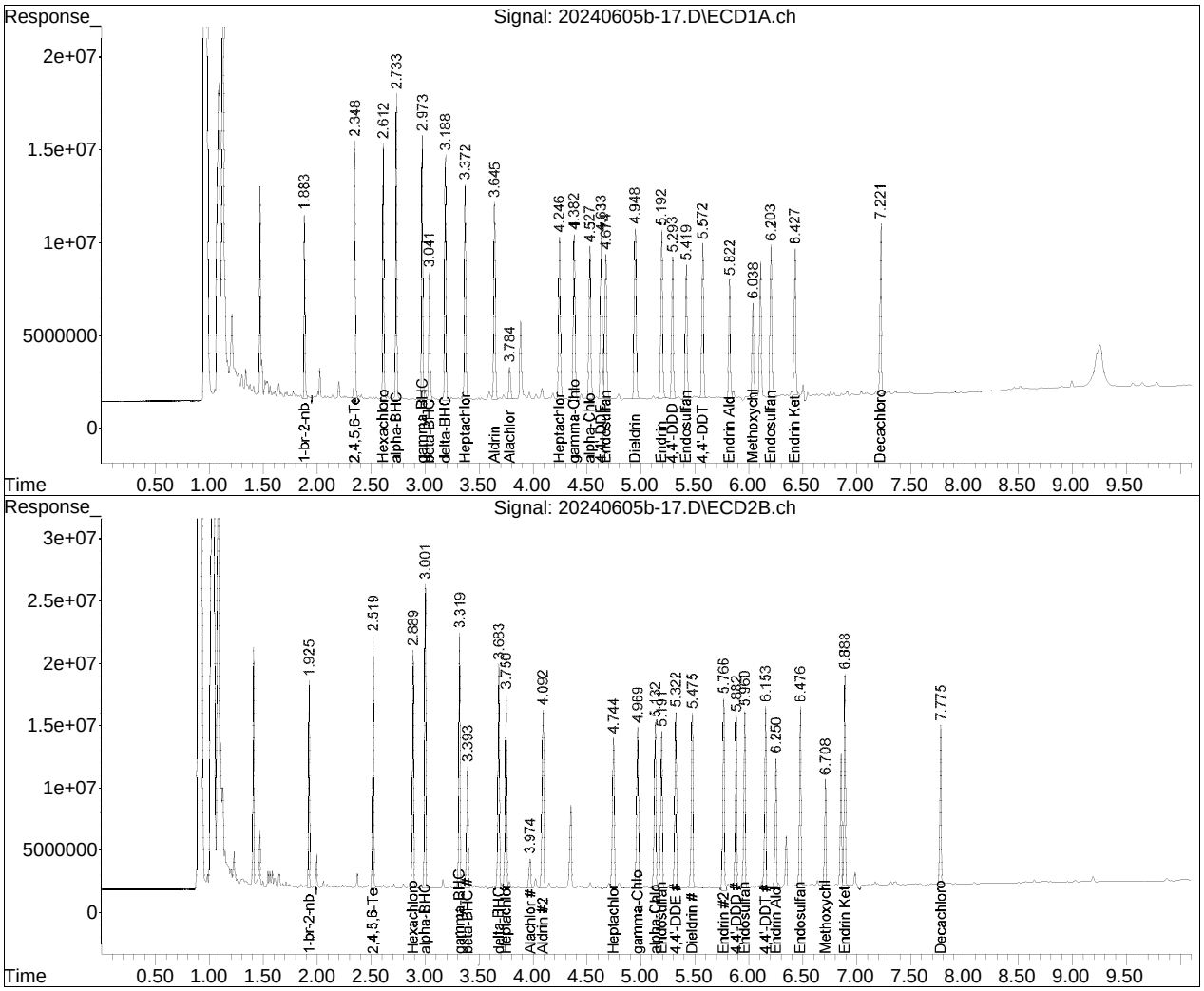
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only0\2024\240605b\20240605b-03.D•

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-17.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 10:27 pm
Operator : pest20:ejl
Sample : WG1929733-2,42,, 733 734 (Sig #1); WG1929730-2,42,, 733 734 (Sig #
Misc : wg1930283,WG1929733,ical21144 (Sig #1); wg1930283,WG1929730,ical21
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:50:25 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

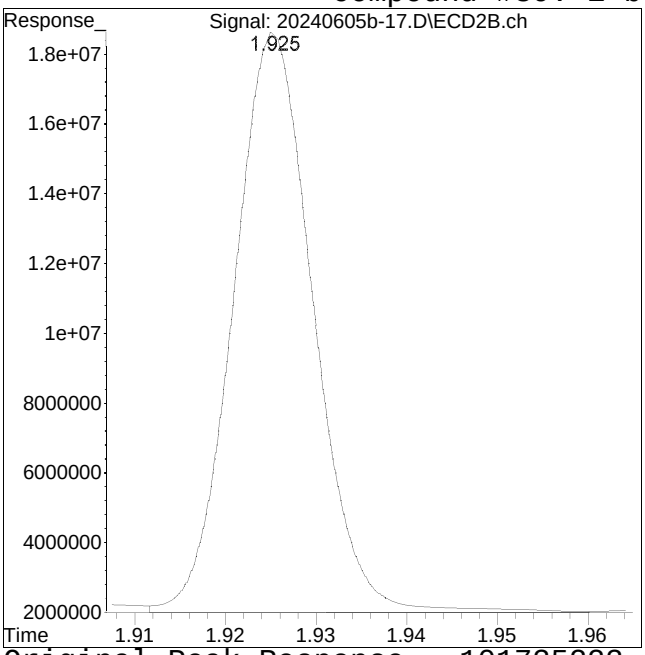
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

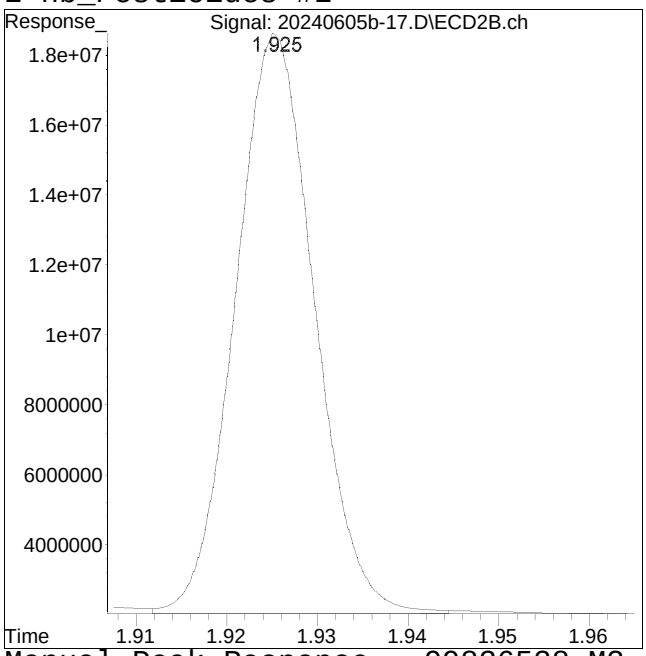


Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #39: 1-br-2-nb_Pesticides #2



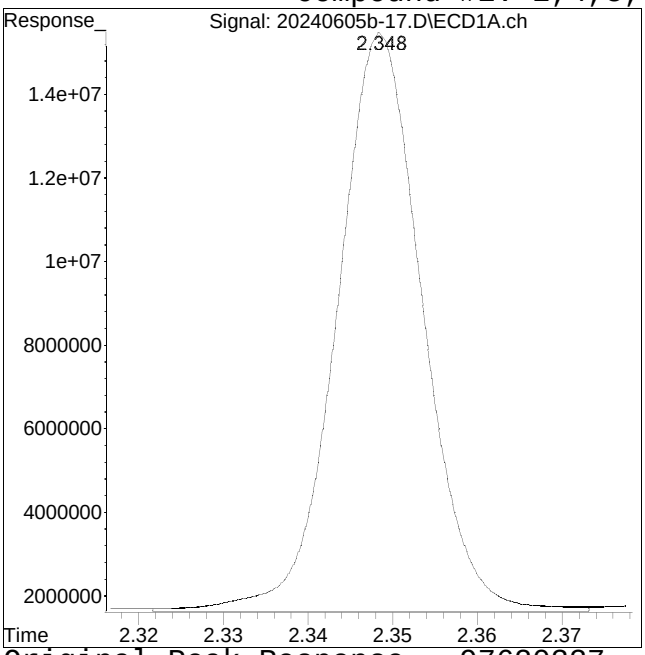


Original Peak Response = 101735223 Manual Peak Response = 99836538 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

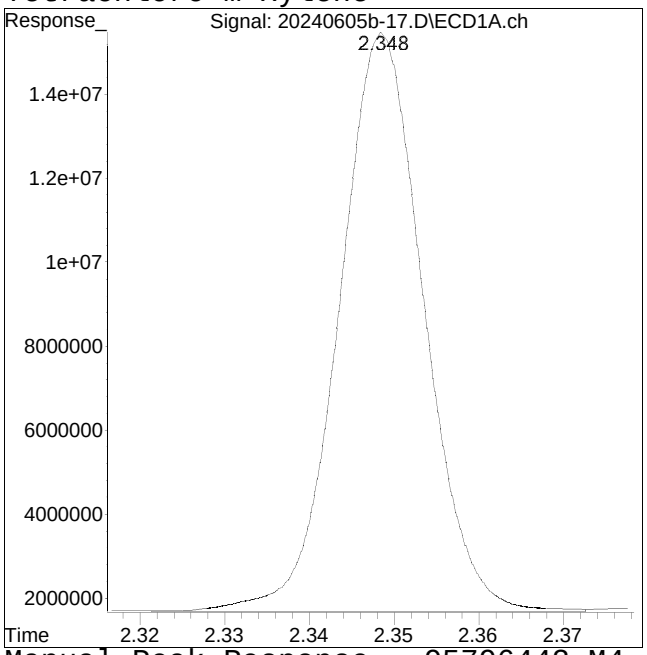
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 97620337



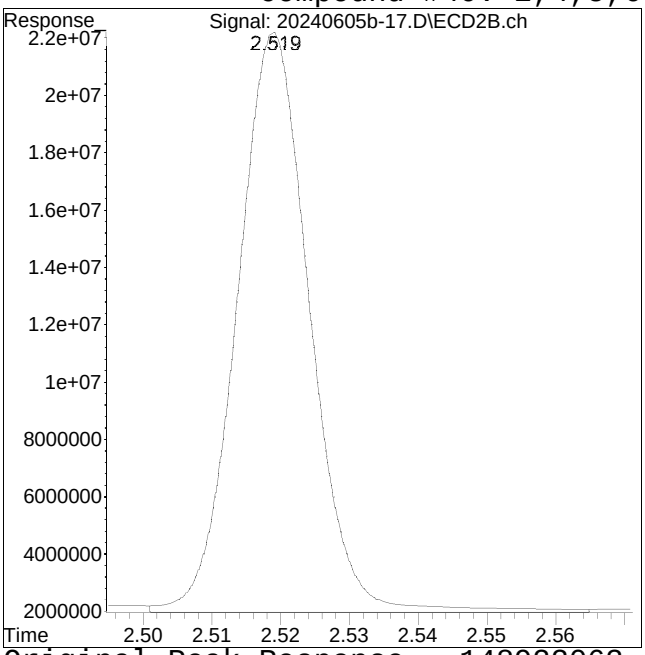
Manual Peak Response = 95796442 M4

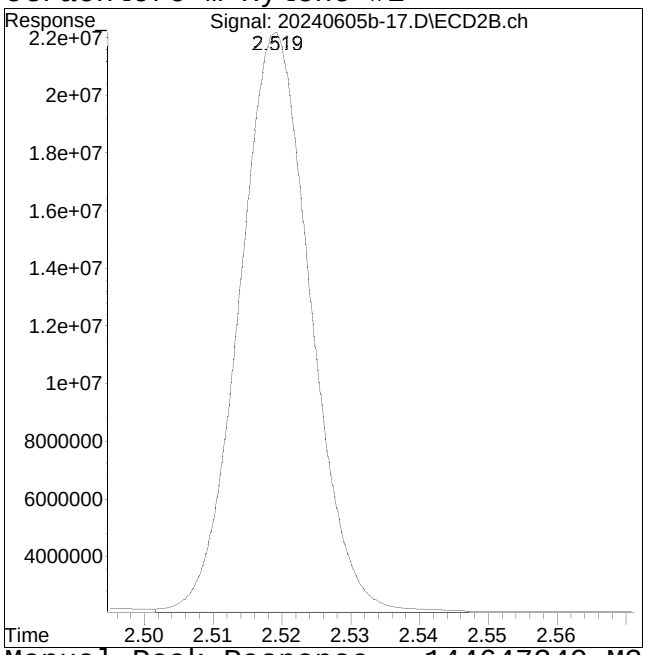
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



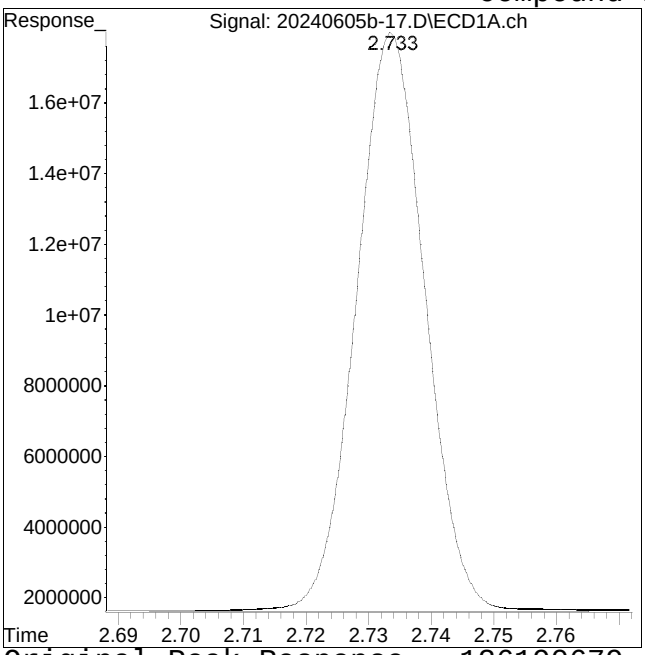


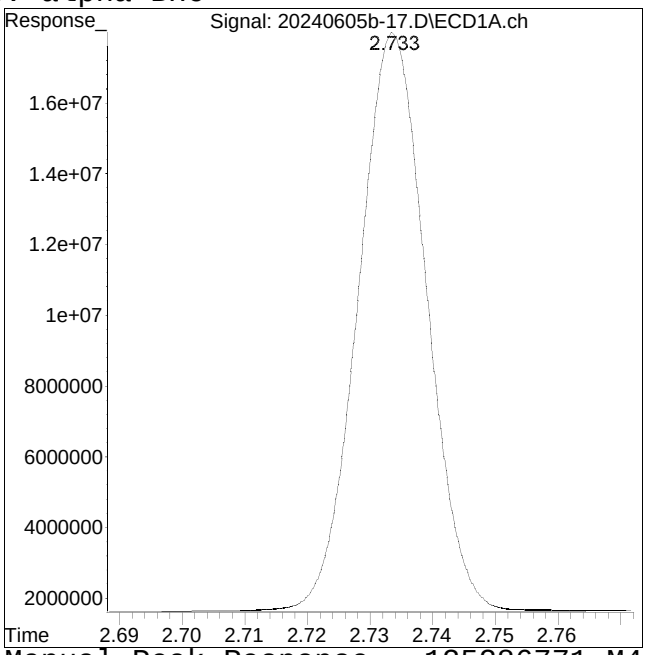
Original Peak Response = 148922063 Manual Peak Response = 144647340 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #4: alpha-BHC



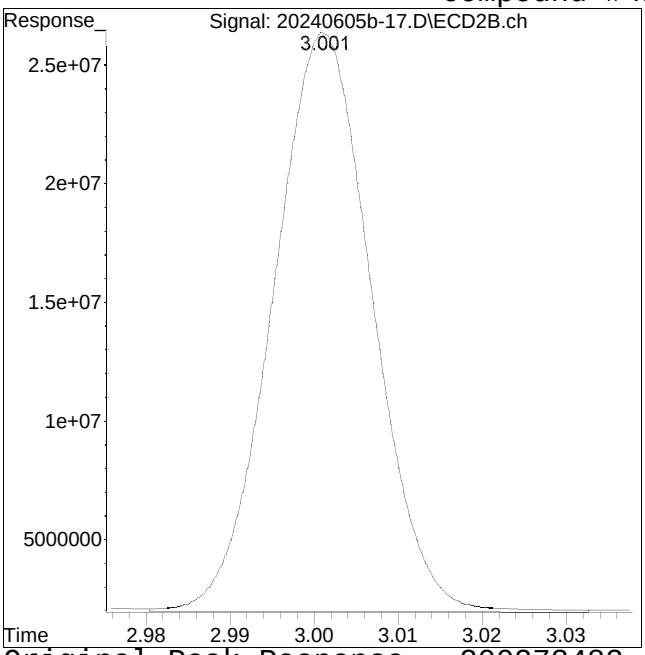


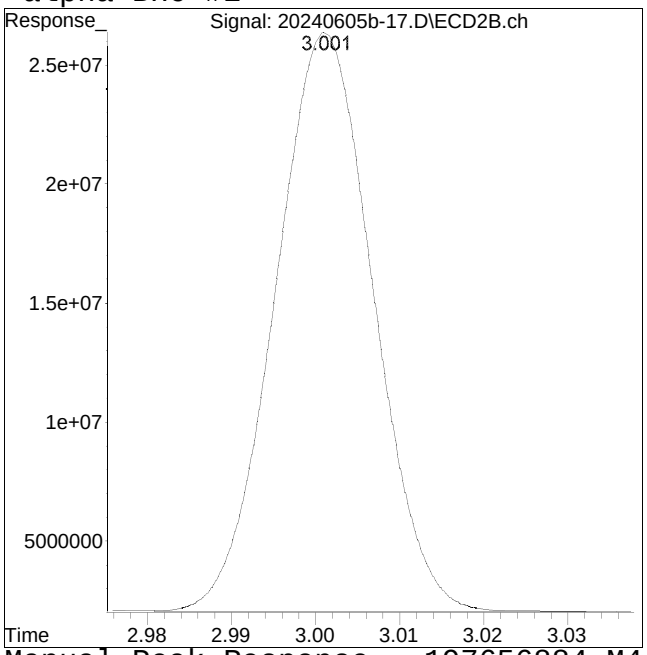
Original Peak Response = 126190679 Manual Peak Response = 125286771 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #42: alpha-BHC #2



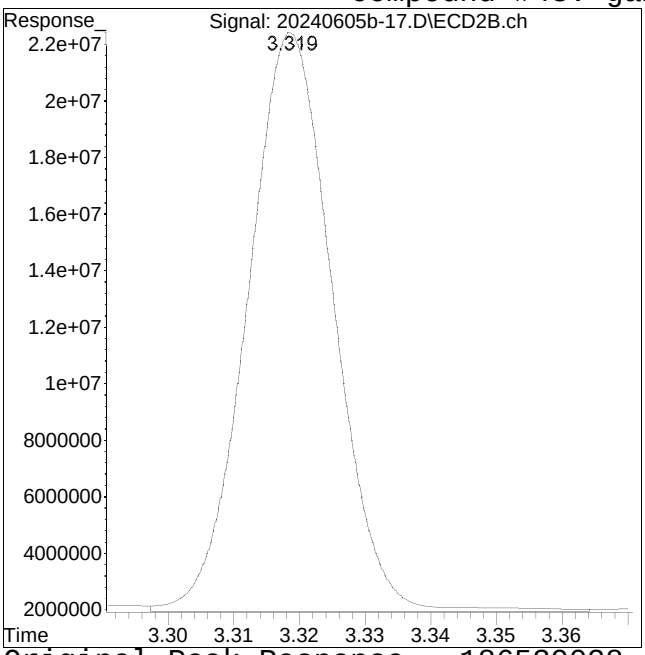


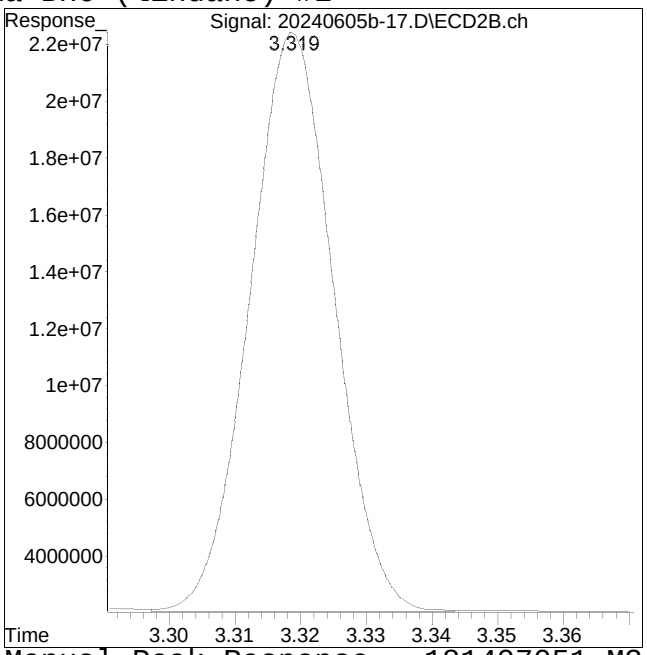
Original Peak Response = 200273482 Manual Peak Response = 197656884 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #43: gamma-BHC (lindane) #2



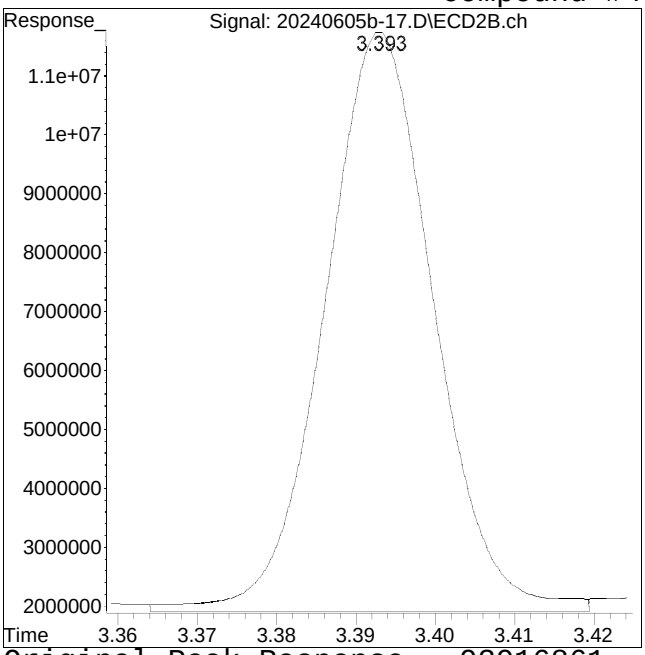


Original Peak Response = 186539028 Manual Peak Response = 181407051 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

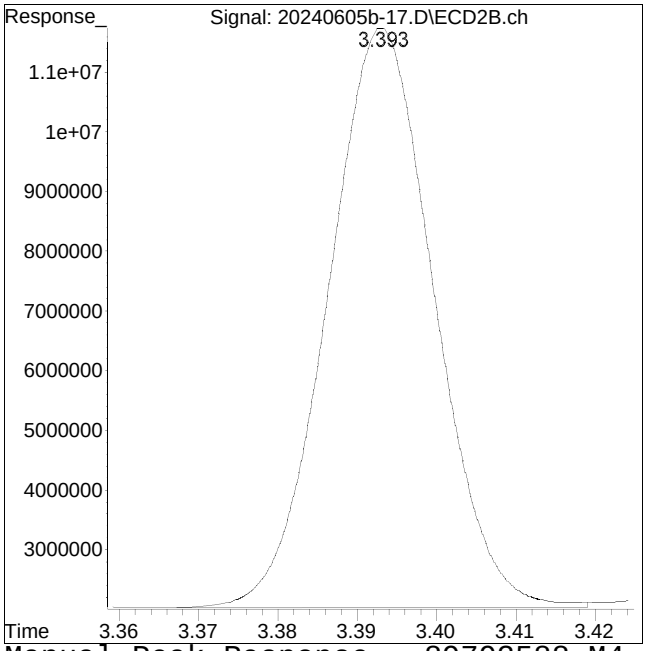
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #44: beta-BHC #2



Original Peak Response = 93916861

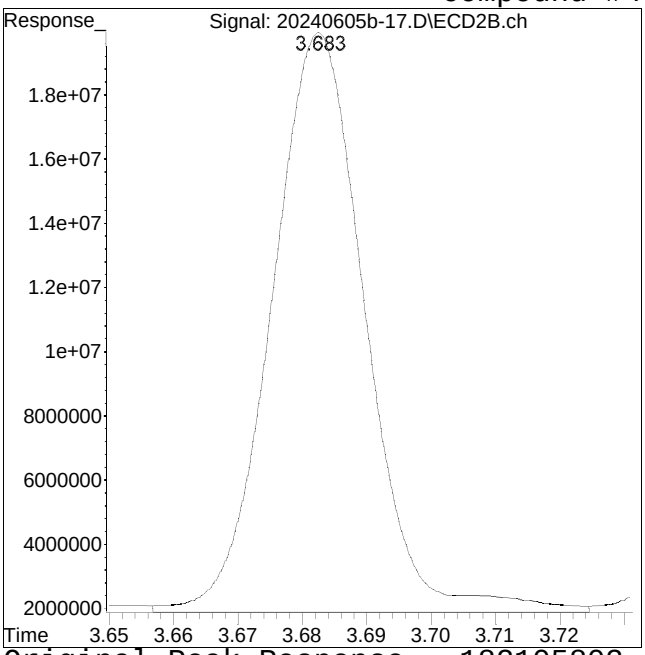


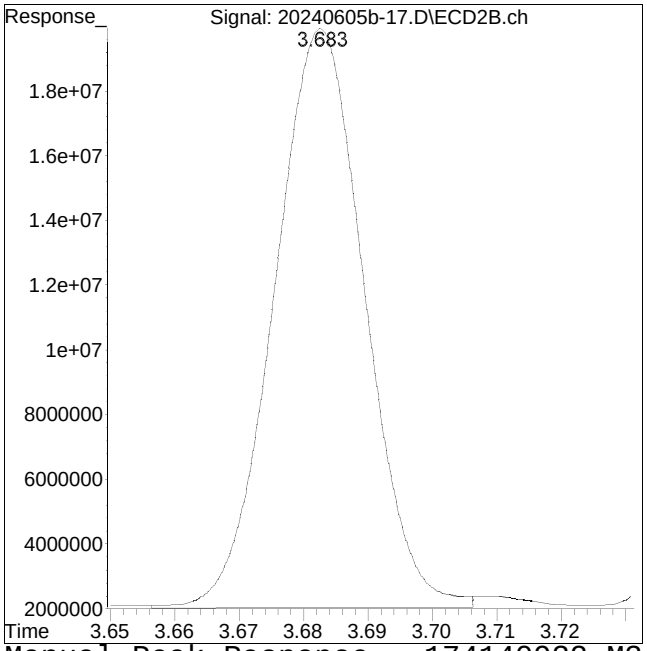
Manual Peak Response = 89793588 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #45: delta-BHC #2



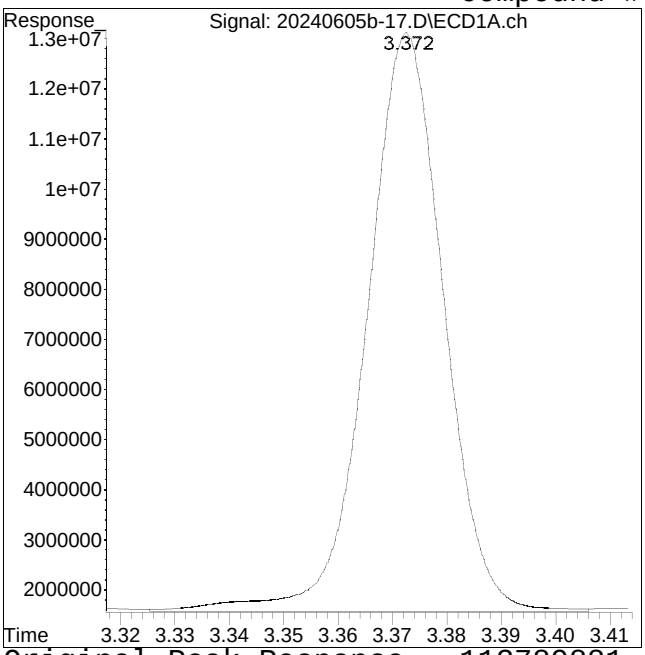


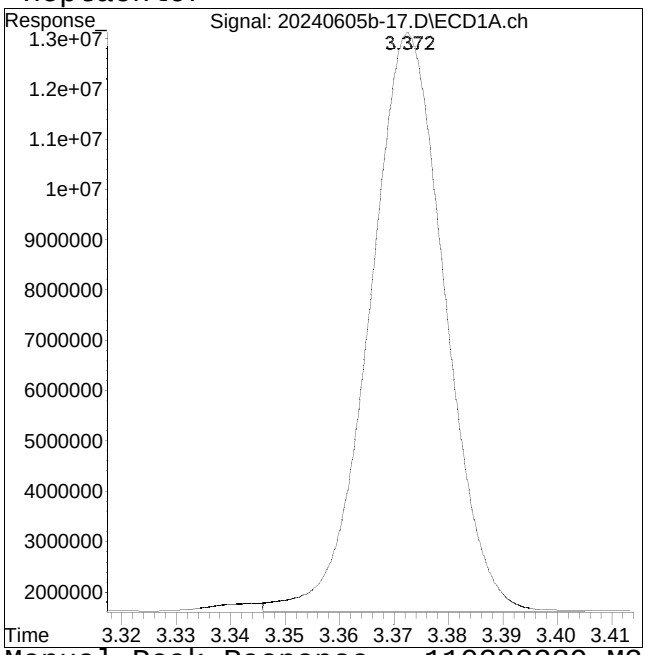
Original Peak Response = 182105803 Manual Peak Response = 174140932 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #8: Heptachlor



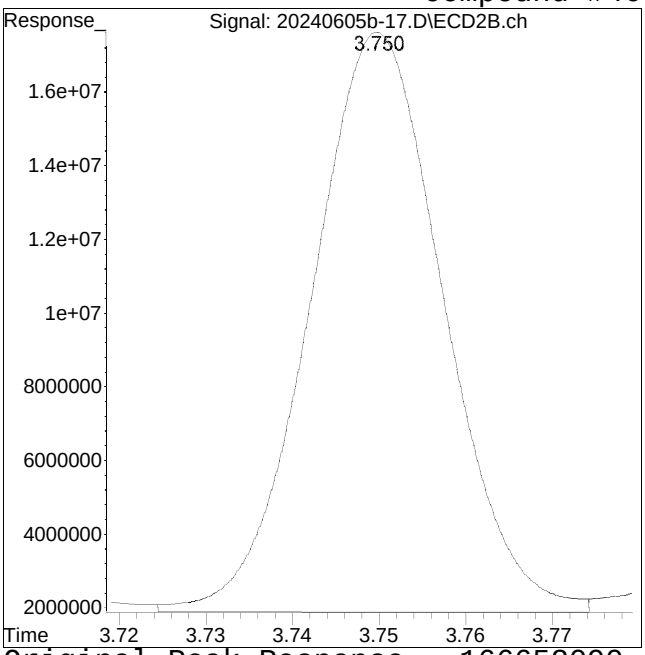


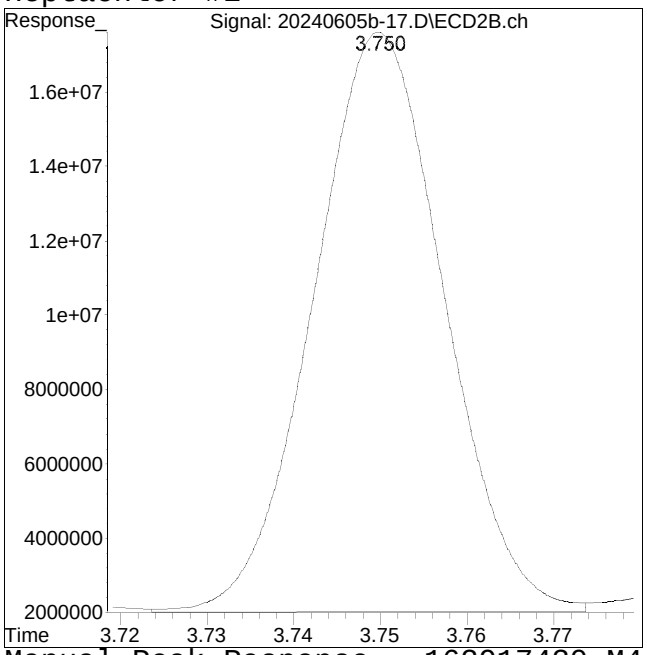
Original Peak Response = 113789881 Manual Peak Response = 110382339 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #46: Heptachlor #2



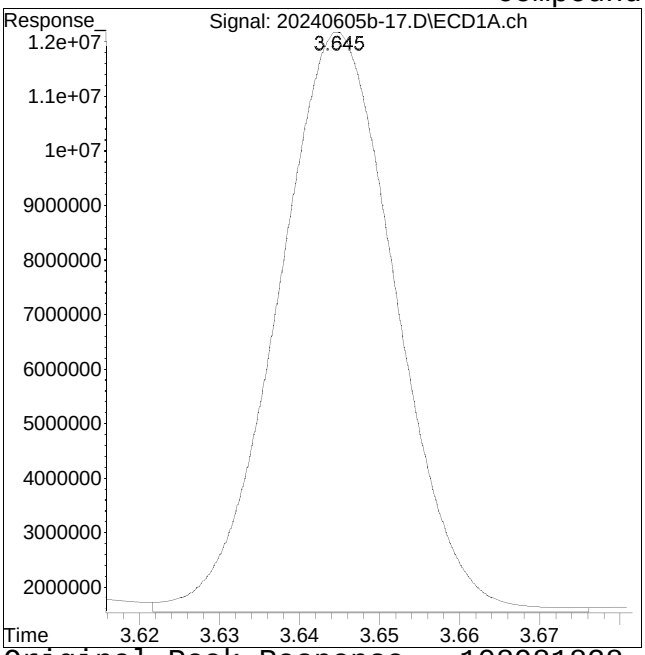


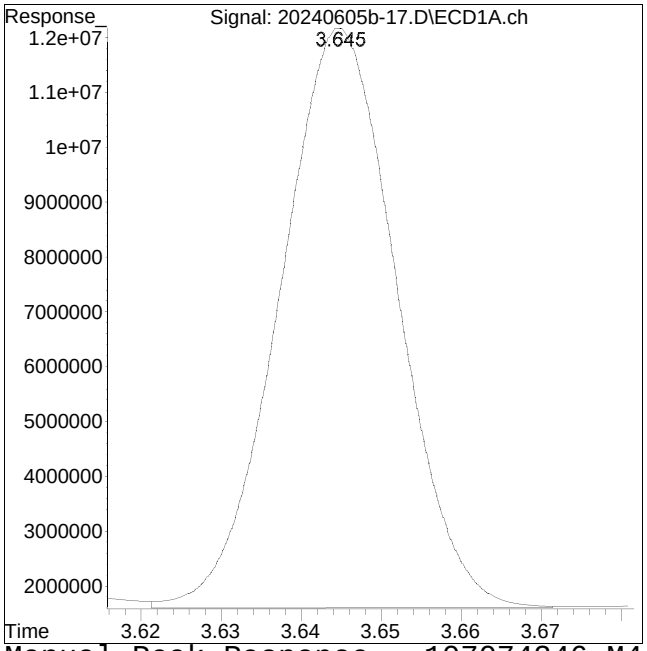
Original Peak Response = 166652090 Manual Peak Response = 162917430 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #9: Aldrin



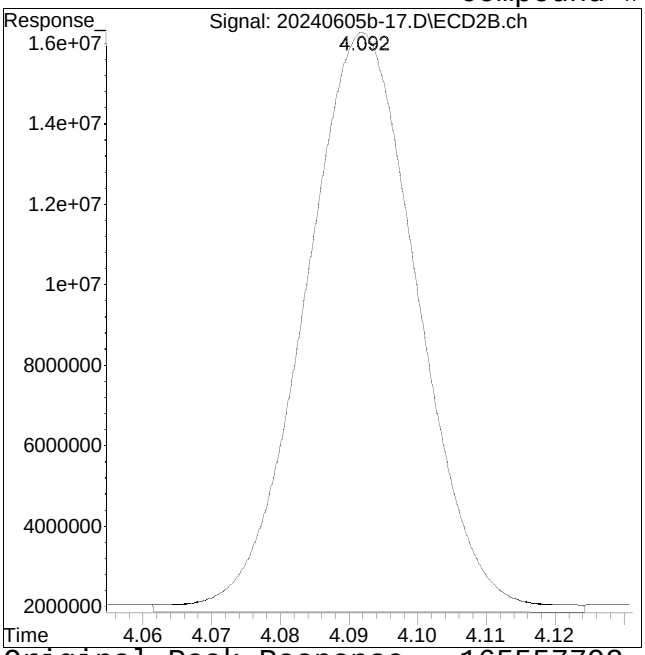


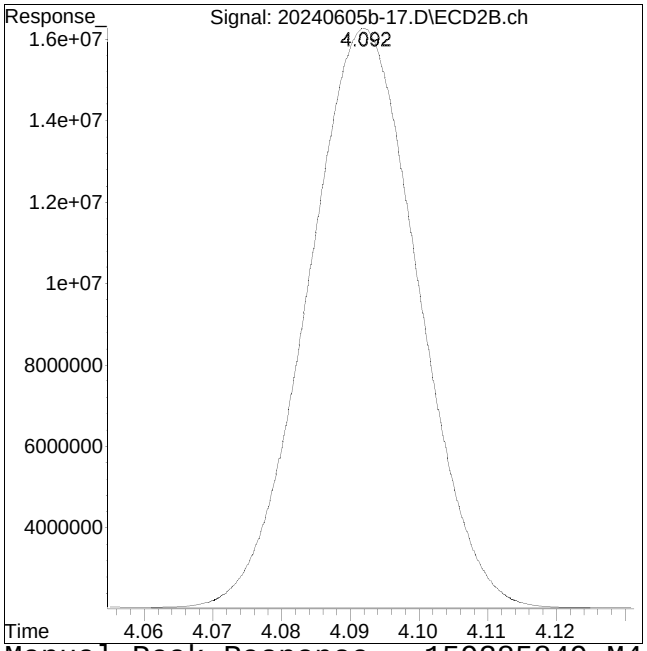
Original Peak Response = 108981828 Manual Peak Response = 107074246 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #47: Aldrin #2



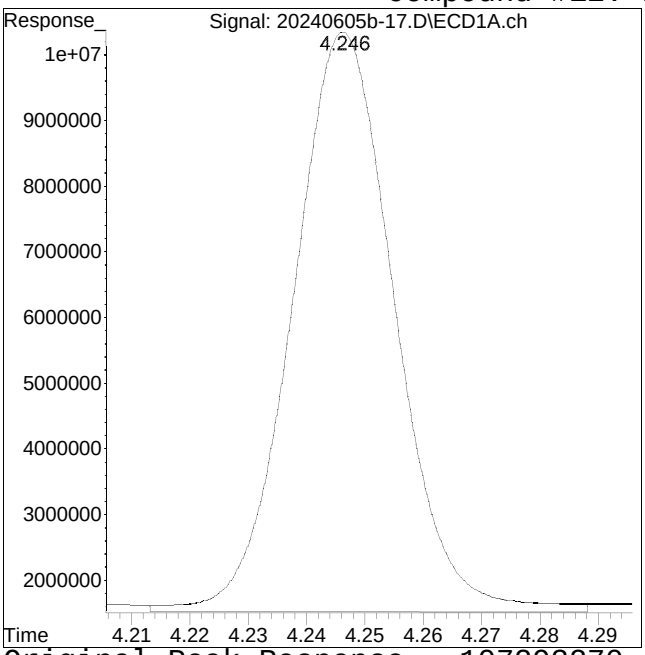


Original Peak Response = 165557792 Manual Peak Response = 159385849 M4
M4 = Poor automated baseline construction.

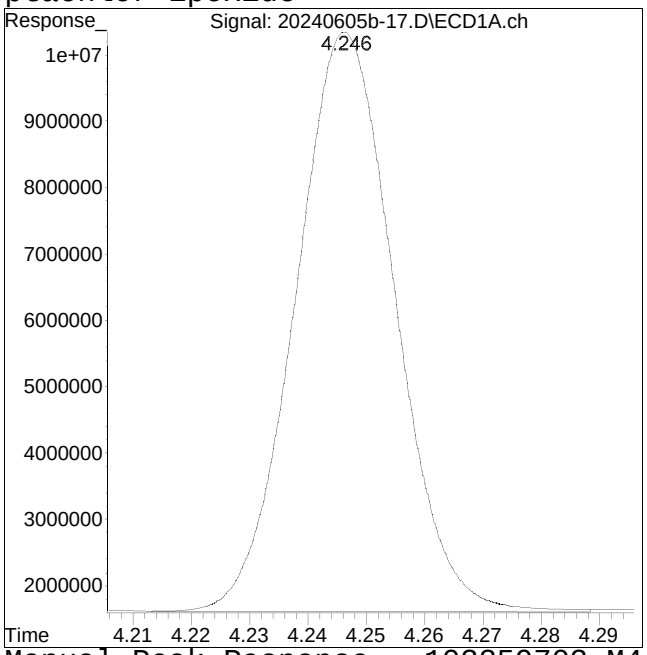
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #12: Heptachlor Epoxide



Original Peak Response = 107293270



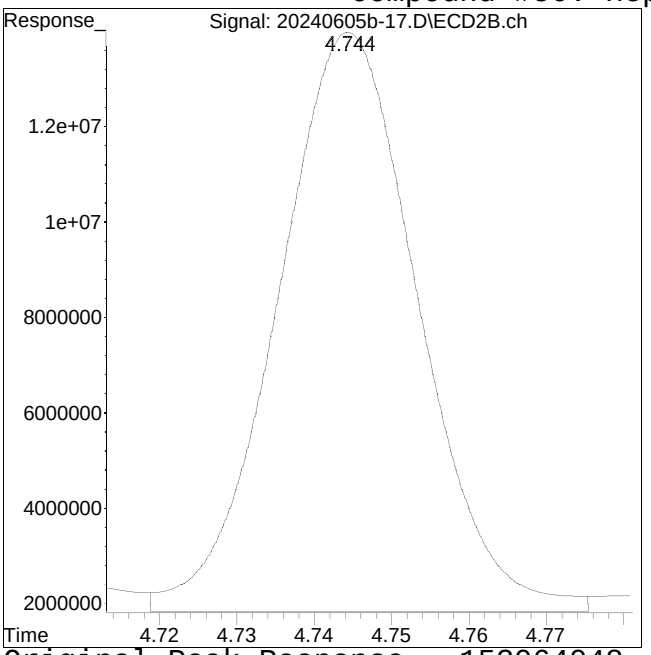
Manual Peak Response = 103359703 M4

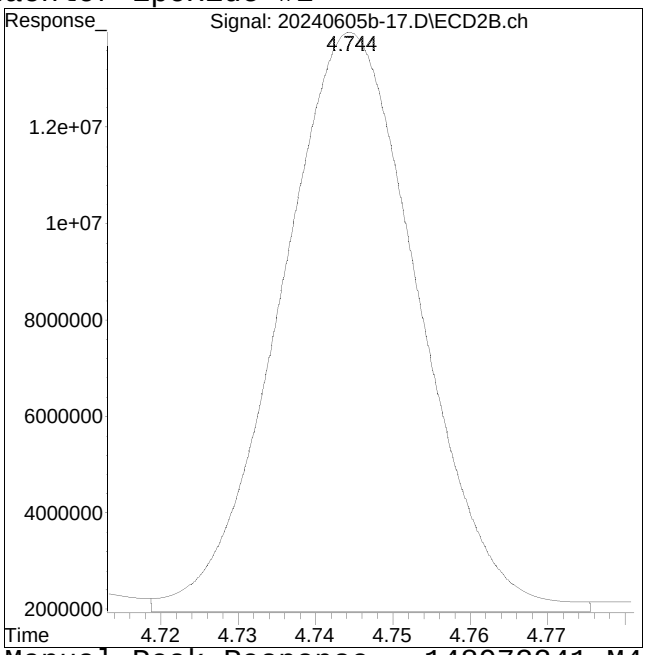
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #50: Heptachlor Epoxide #2



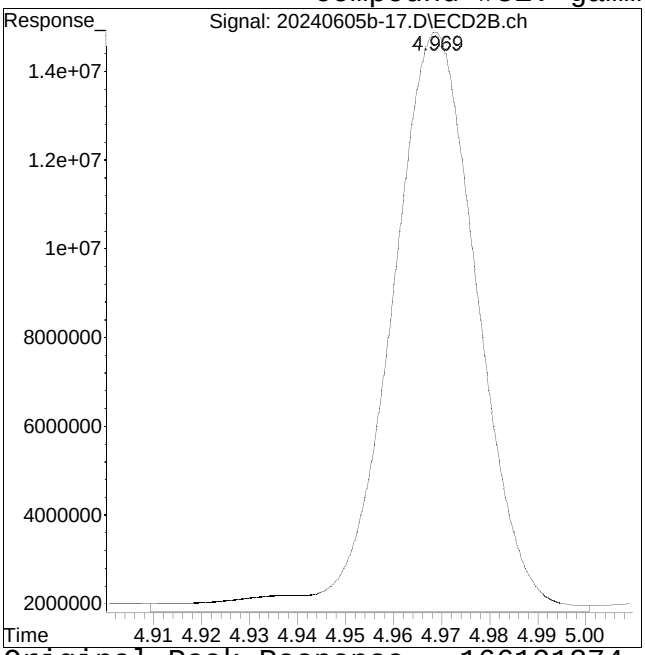


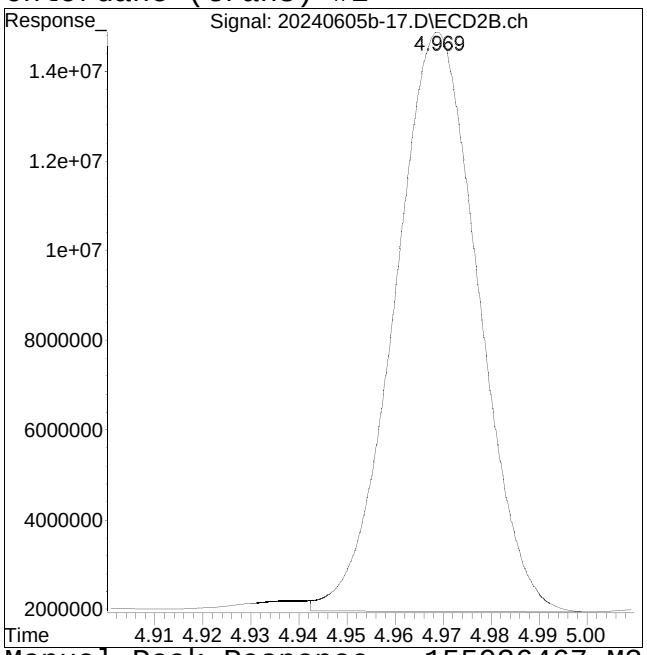
Original Peak Response = 153064048 Manual Peak Response = 148972241 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #51: gamma-Chlordane (trans) #2



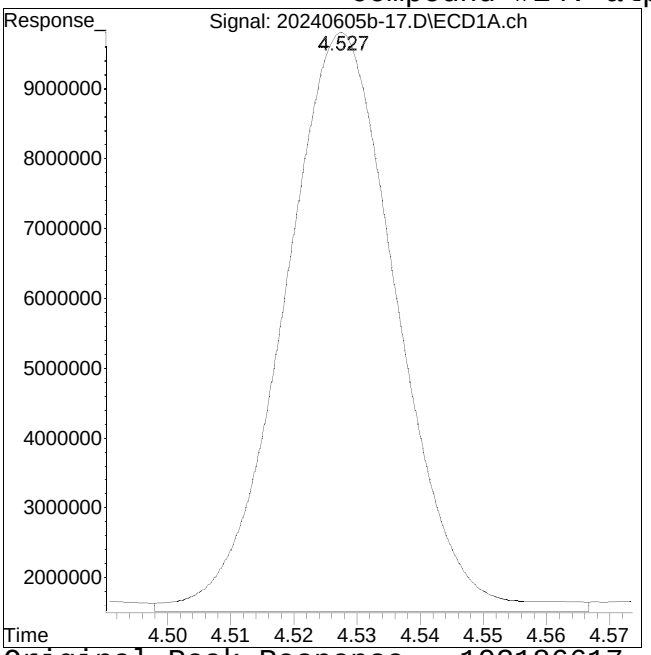


Original Peak Response = 166191274 Manual Peak Response = 155936467 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

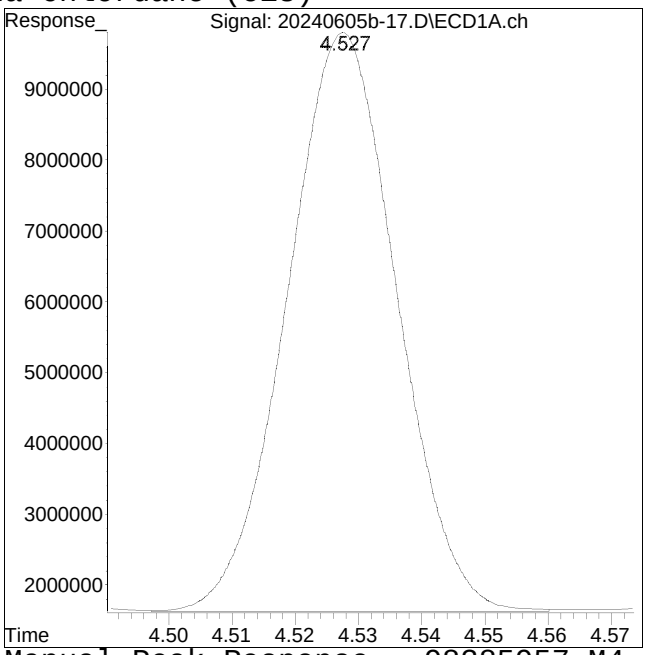
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 103186617



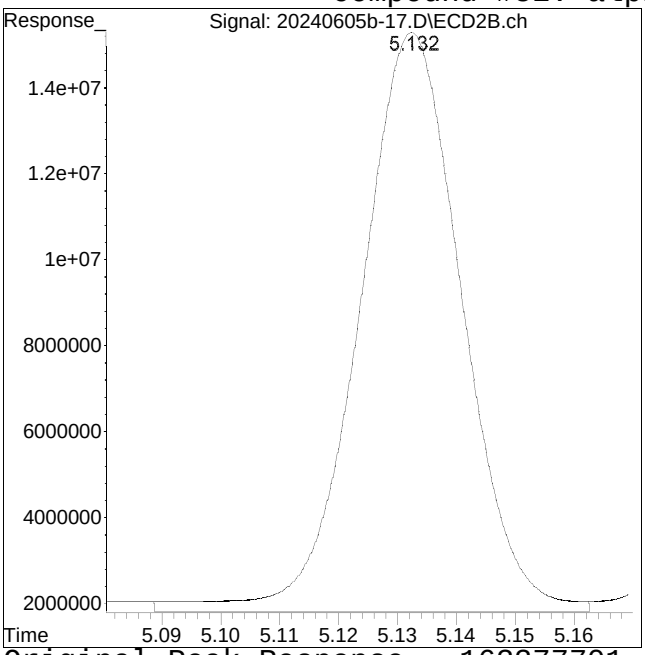
Manual Peak Response = 98385957 M4

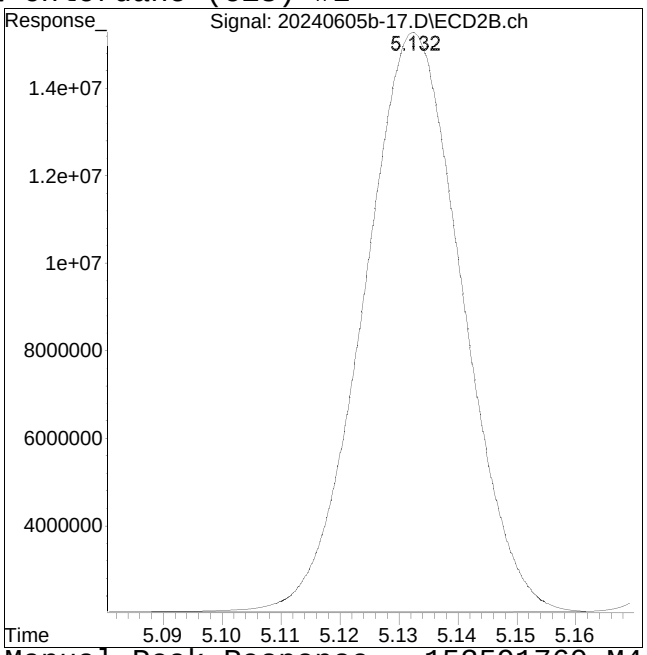
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #52: alpha-Chlordane (cis) #2



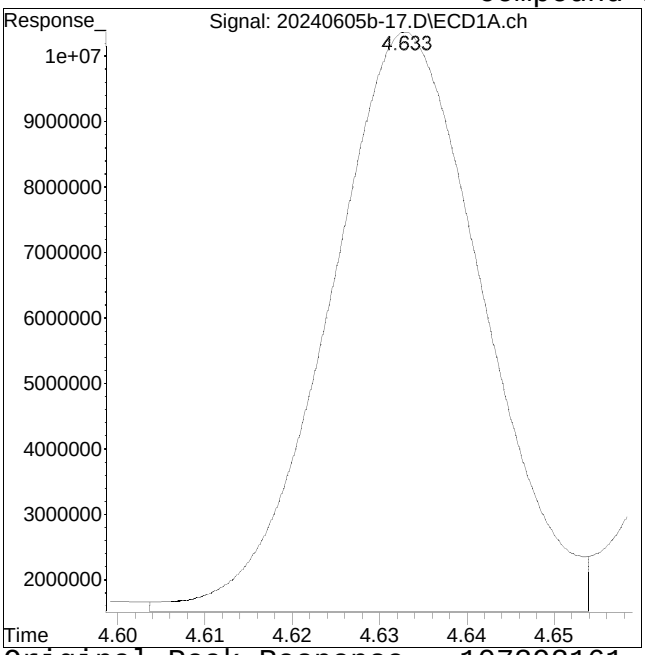


Original Peak Response = 163377701 Manual Peak Response = 153591760 M4
M4 = Poor automated baseline construction.

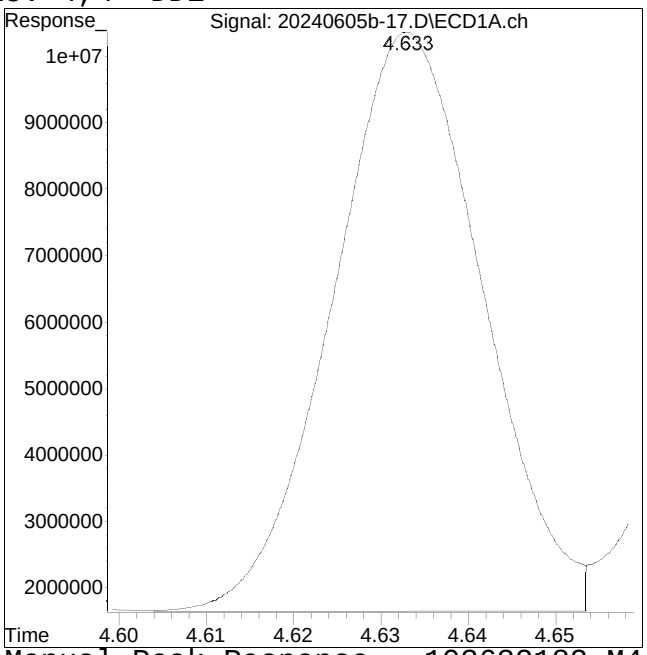
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #15: 4,4'-DDE



Original Peak Response = 107392161



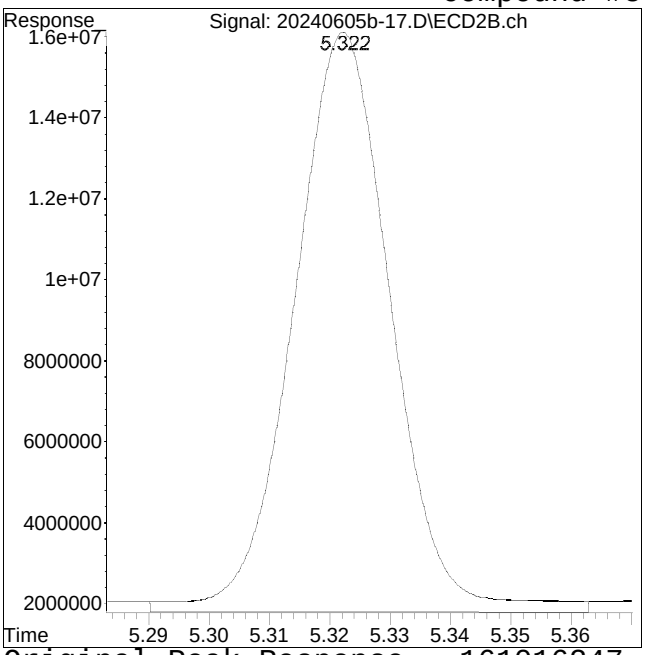
Manual Peak Response = 103632182 M4

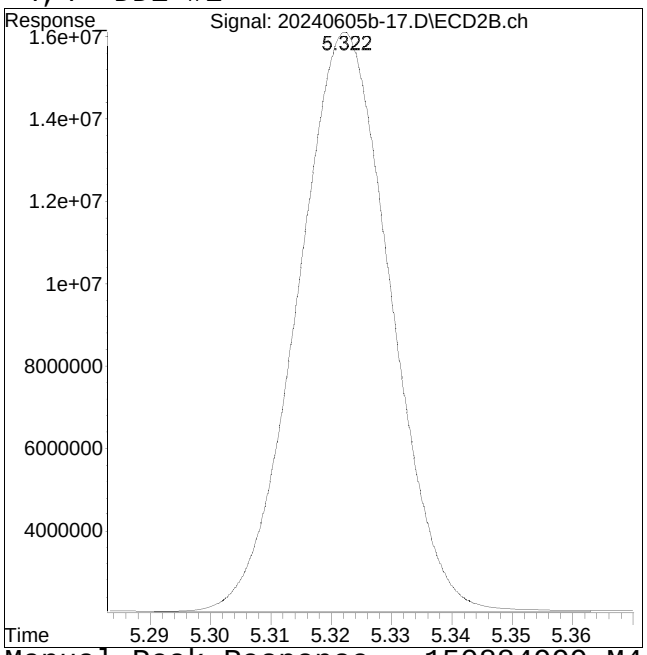
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #53: 4,4'-DDE #2



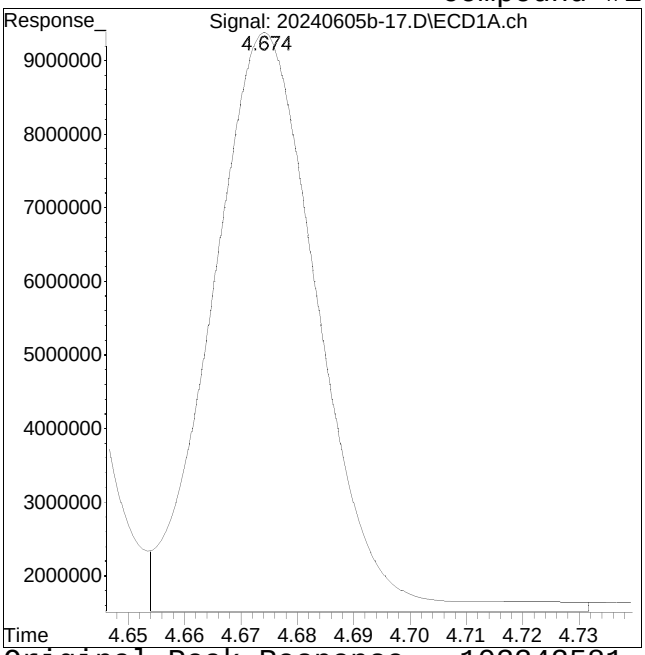


Original Peak Response = 161016247 Manual Peak Response = 150884999 M4
M4 = Poor automated baseline construction.

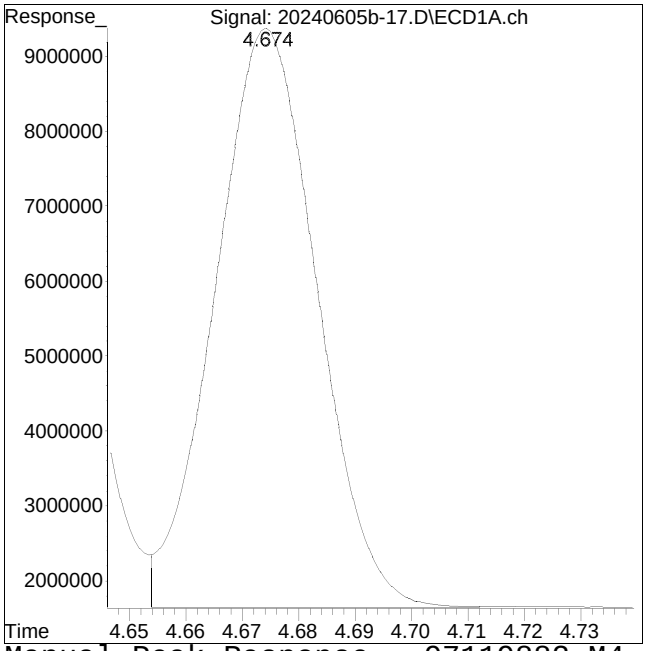
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #16: Endosulfan I



Original Peak Response = 103342581



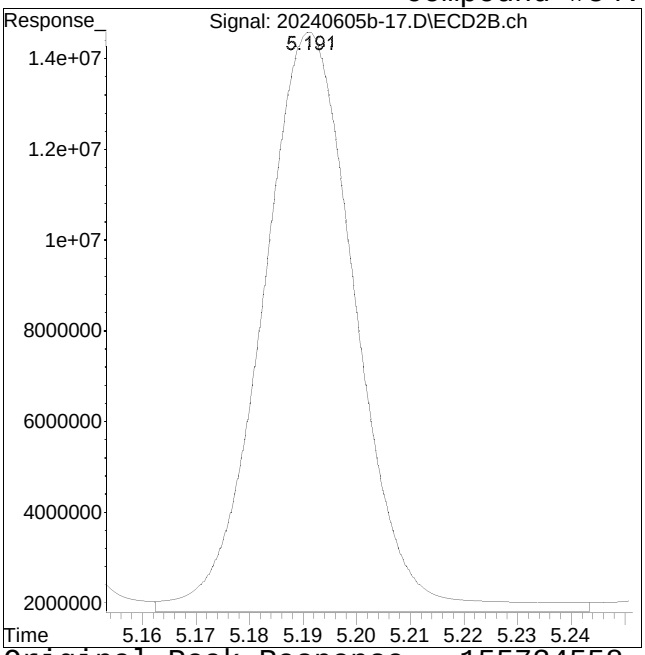
Manual Peak Response = 97119882 M4

M4 = Poor automated baseline construction.

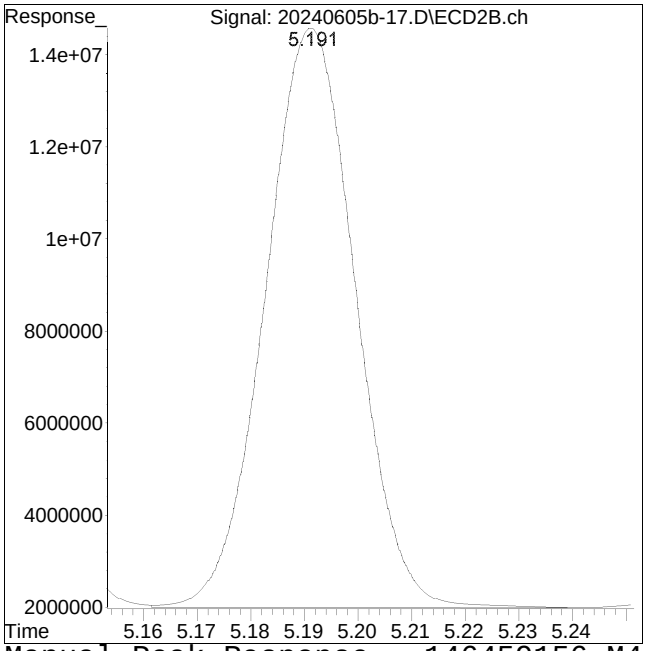
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #54: Endosulfan I #2



Original Peak Response = 155734558



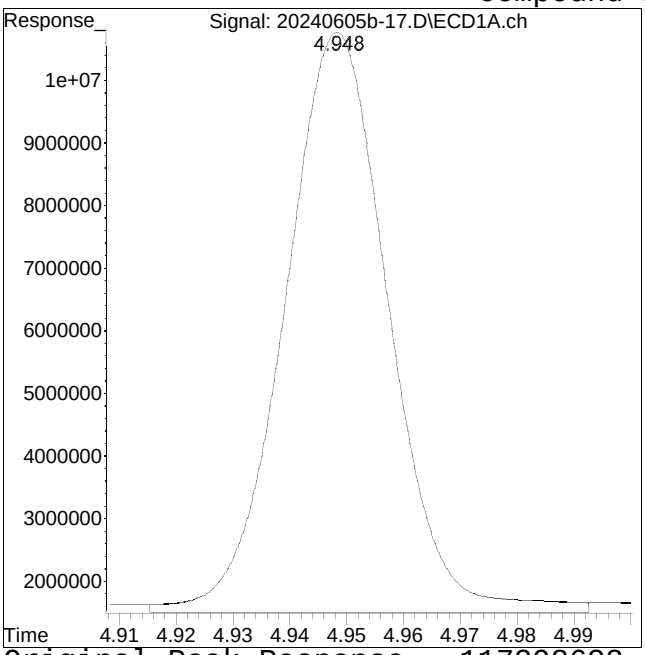
Manual Peak Response = 146459156 M4

M4 = Poor automated baseline construction.

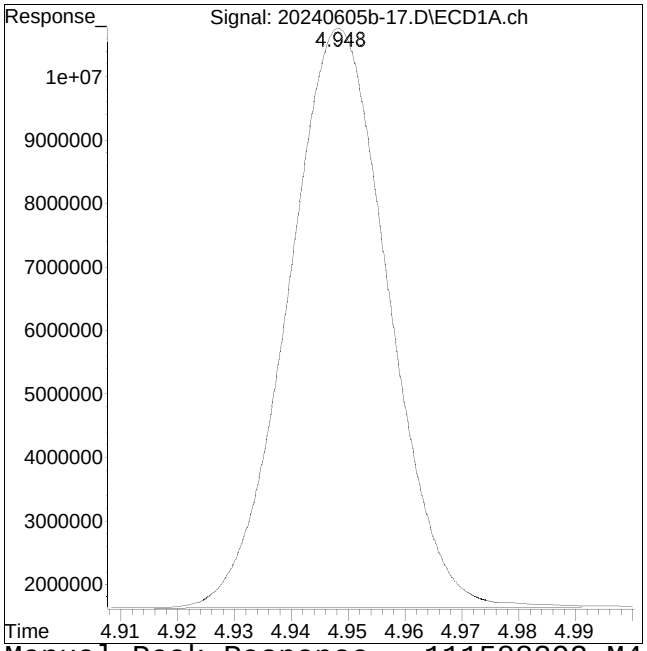
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #17: Dieldrin



Original Peak Response = 117392622



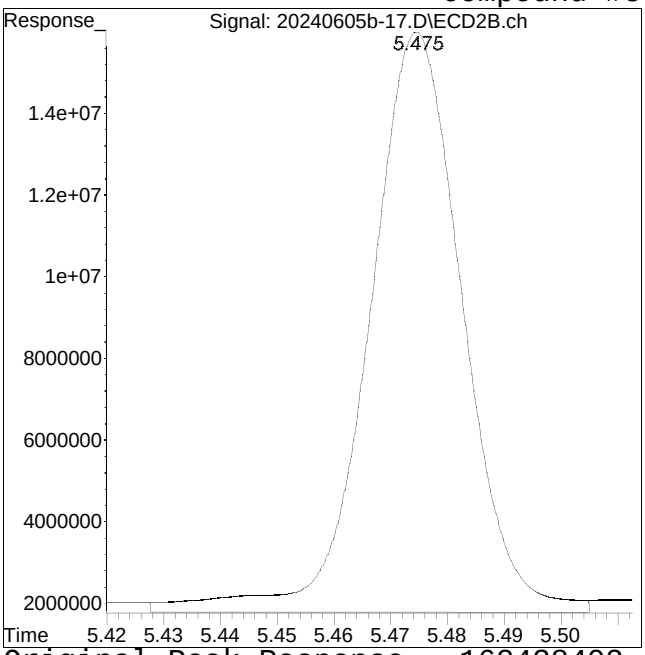
Manual Peak Response = 111588292 M4

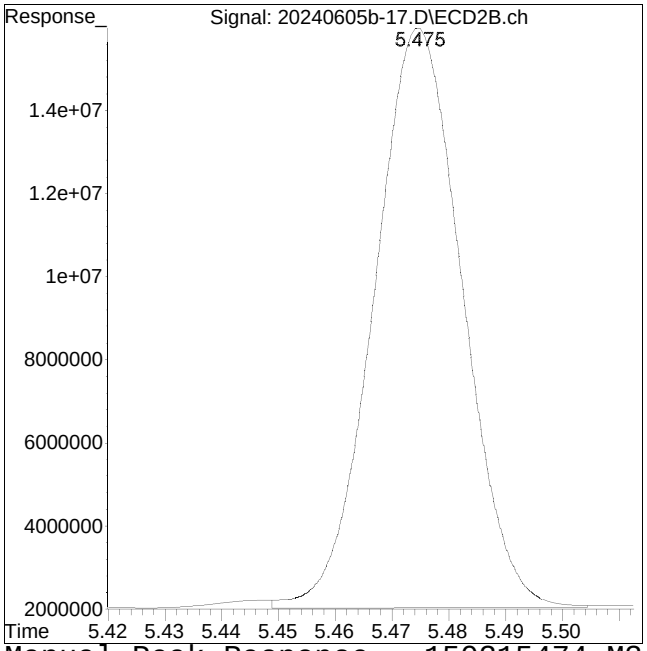
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #55: Dieldrin #2



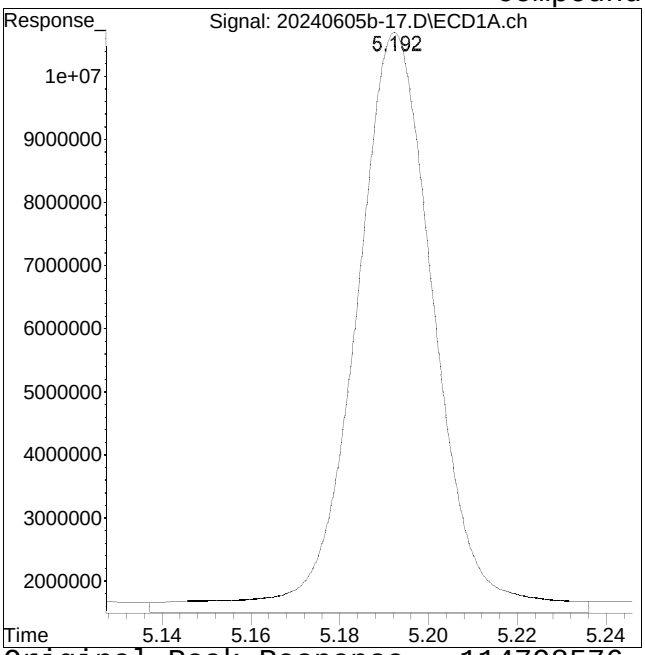


Original Peak Response = 162438402 Manual Peak Response = 150315474 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

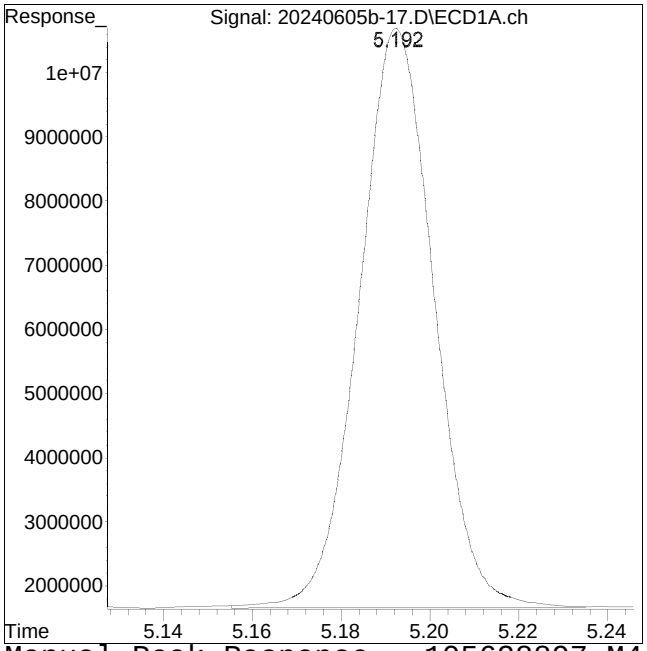
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #18: Endrin



Original Peak Response = 114798576



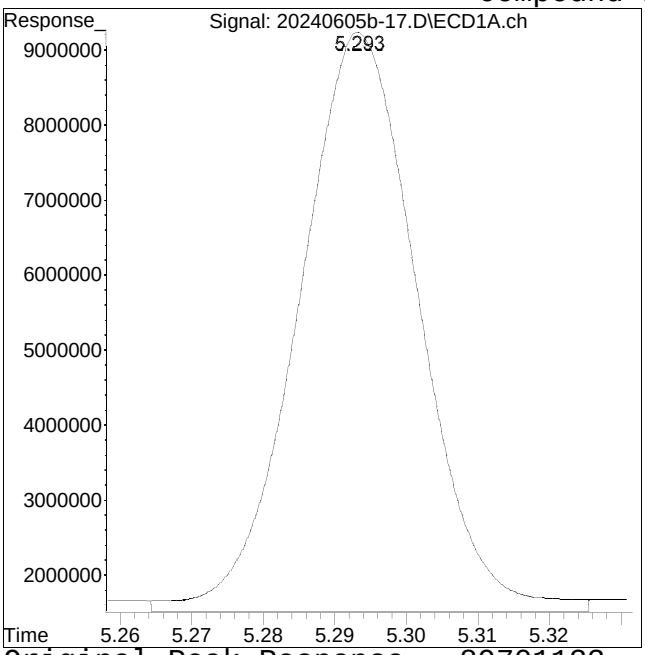
Manual Peak Response = 105628897 M4

M4 = Poor automated baseline construction.

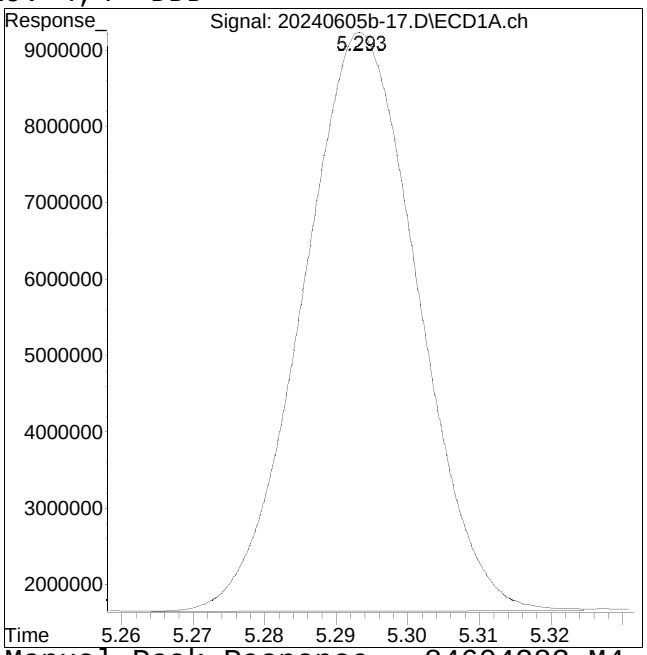
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #19: 4,4'-DDD



Original Peak Response = 89701133



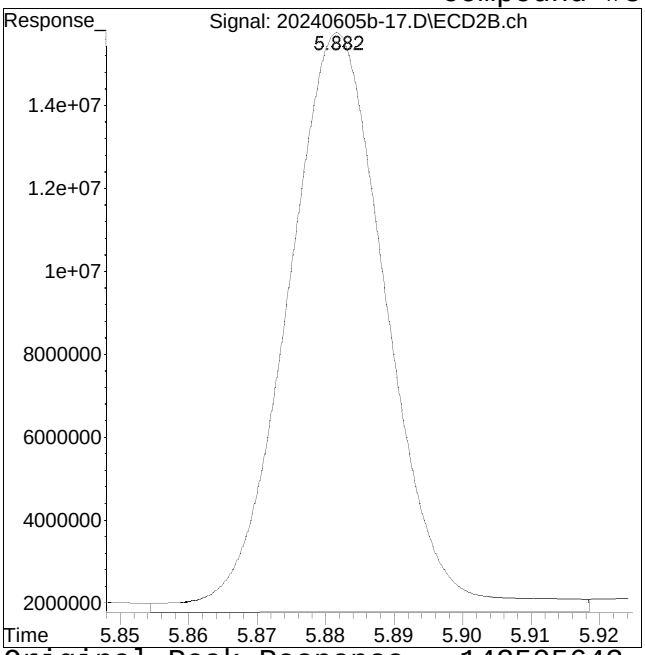
Manual Peak Response = 84604283 M4

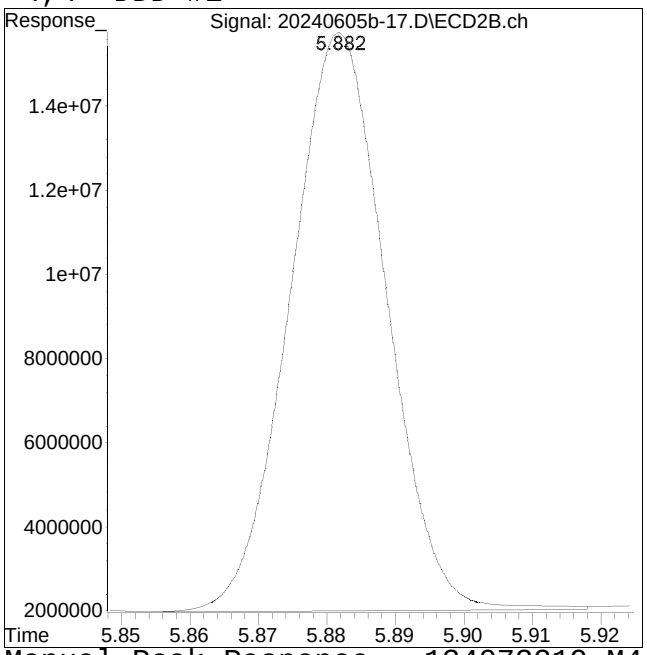
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #57: 4,4'-DDD #2



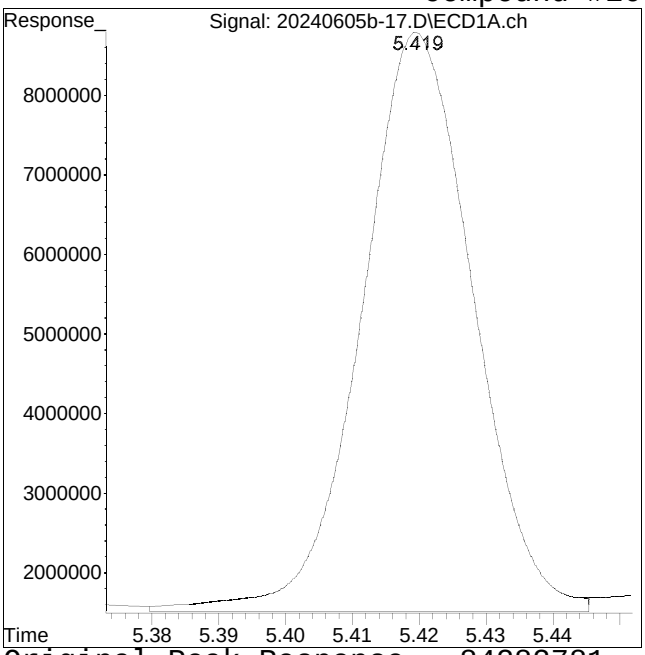


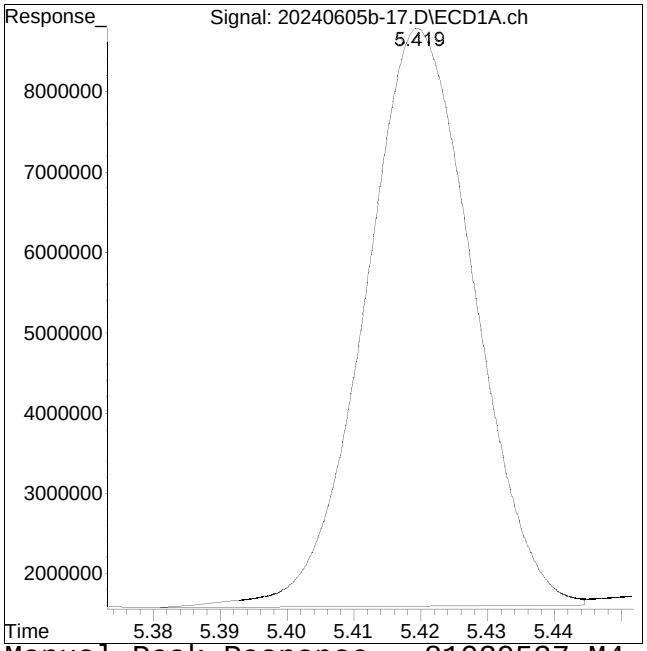
Original Peak Response = 142505643 Manual Peak Response = 134073219 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #20: Endosulfan II



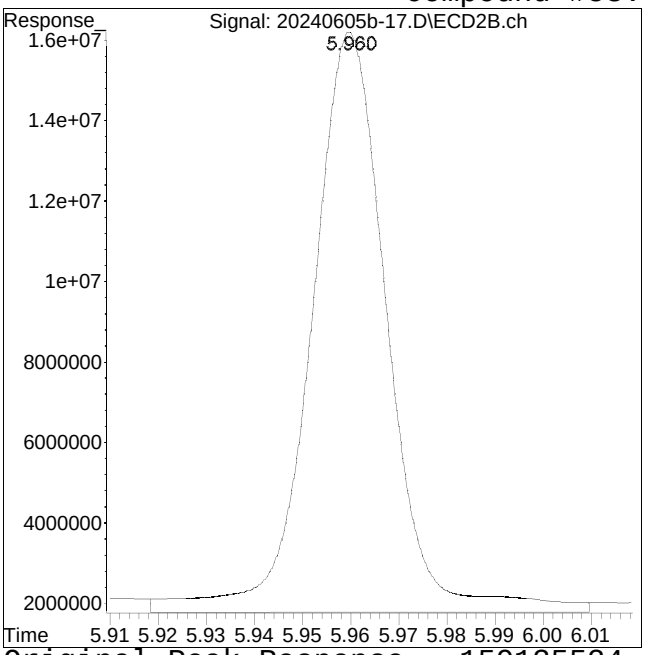


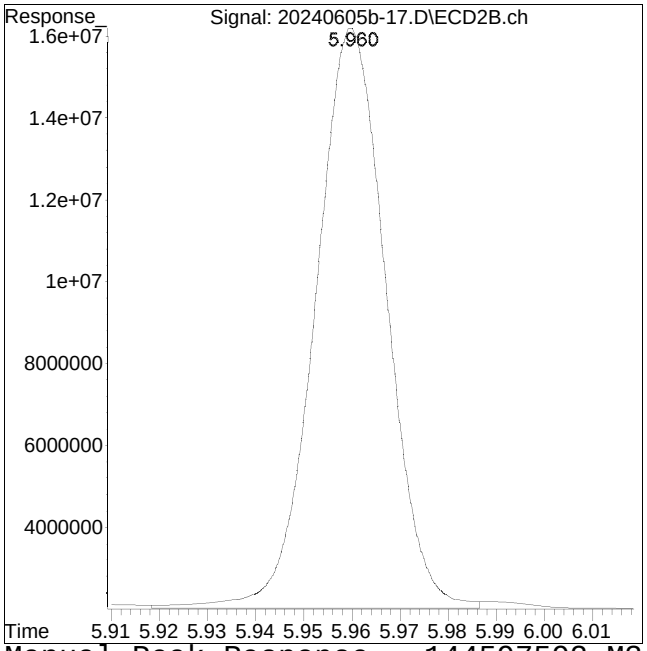
Original Peak Response = 84282781 Manual Peak Response = 81039537 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #58: Endosulfan II #2



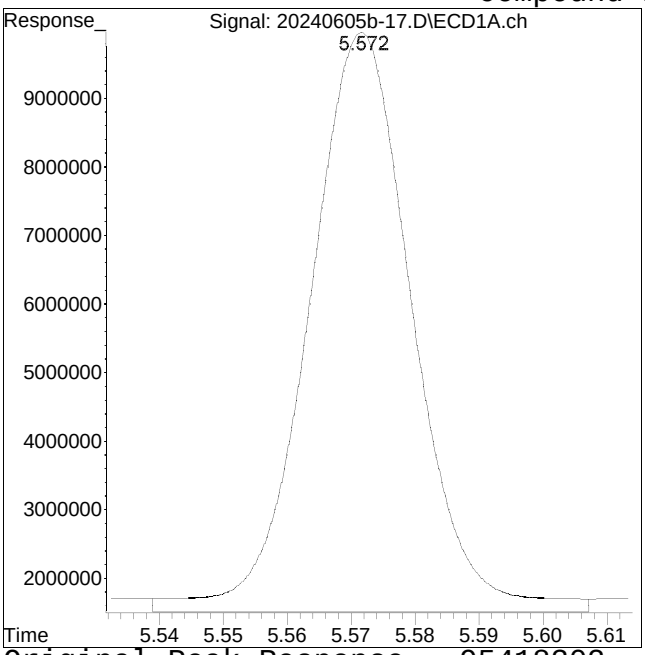


Original Peak Response = 159135524 Manual Peak Response = 144597592 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

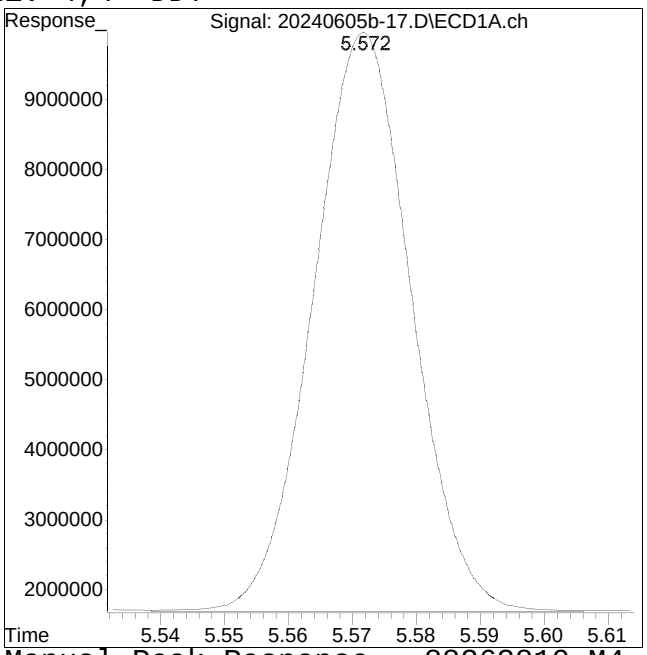
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #21: 4,4'-DDT



Original Peak Response = 95418302



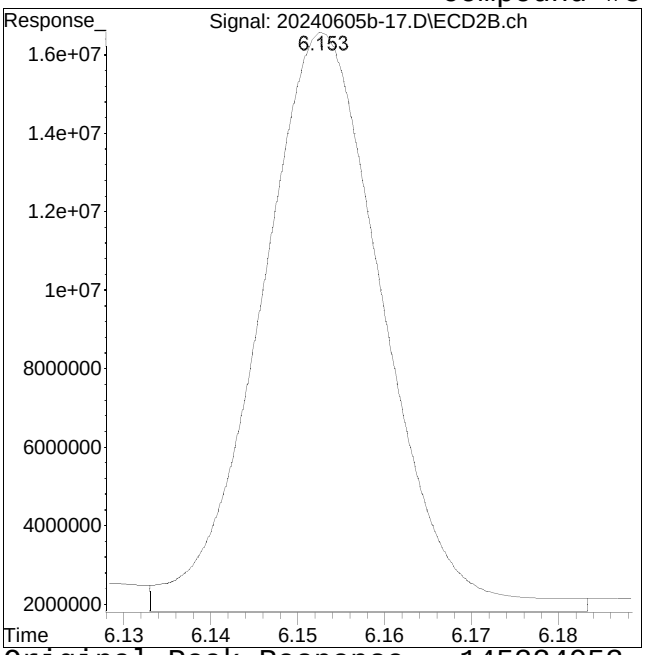
Manual Peak Response = 88263810 M4

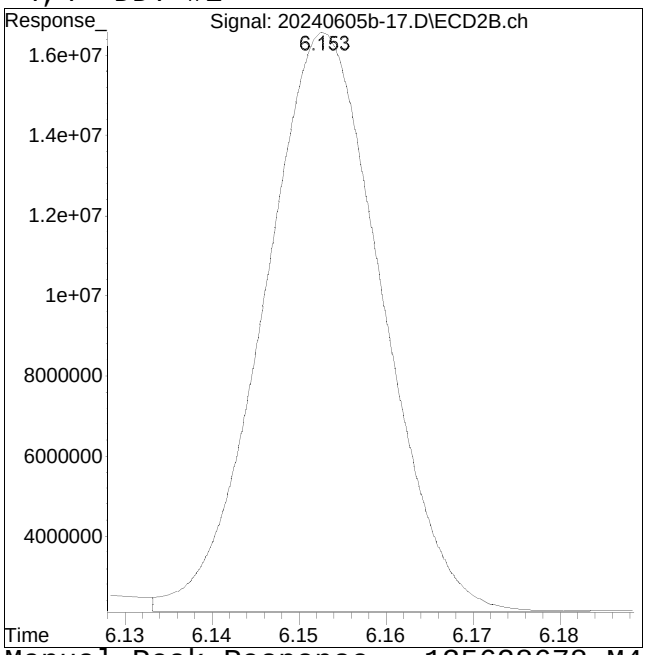
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #59: 4,4'-DDT #2



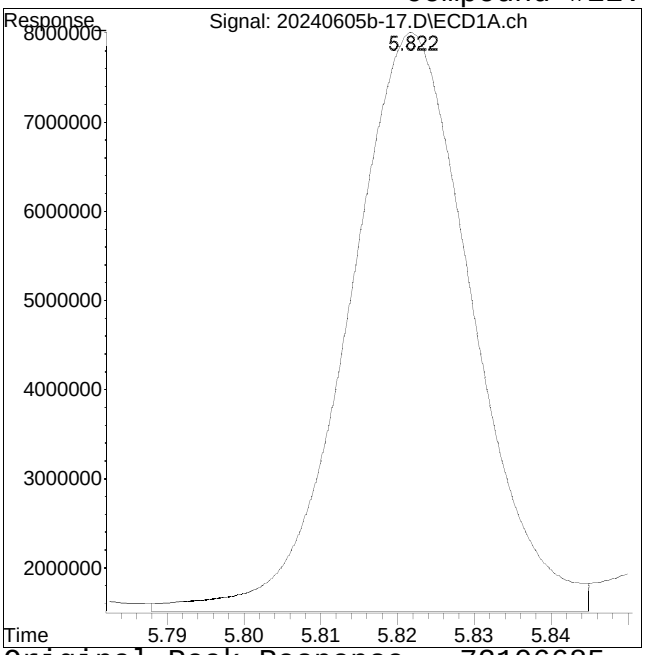


Original Peak Response = 145324953 Manual Peak Response = 135628678 M4
M4 = Poor automated baseline construction.

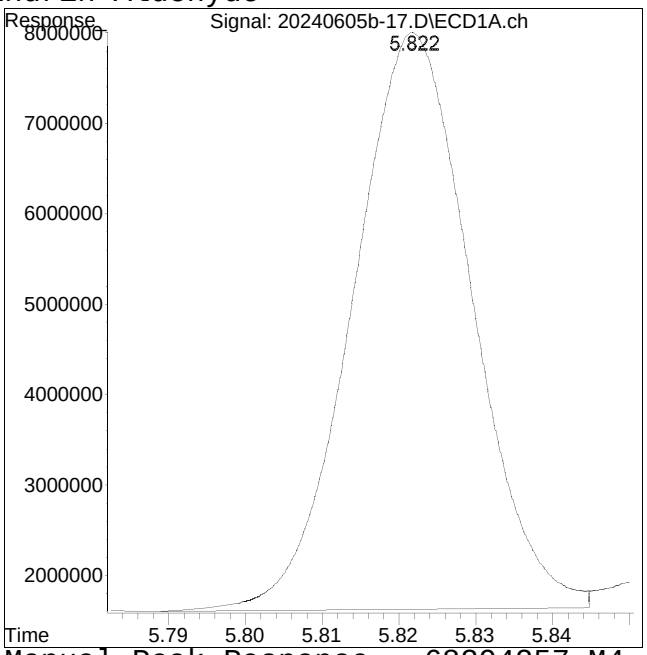
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #22: Endrin Aldehyde



Original Peak Response = 72106685



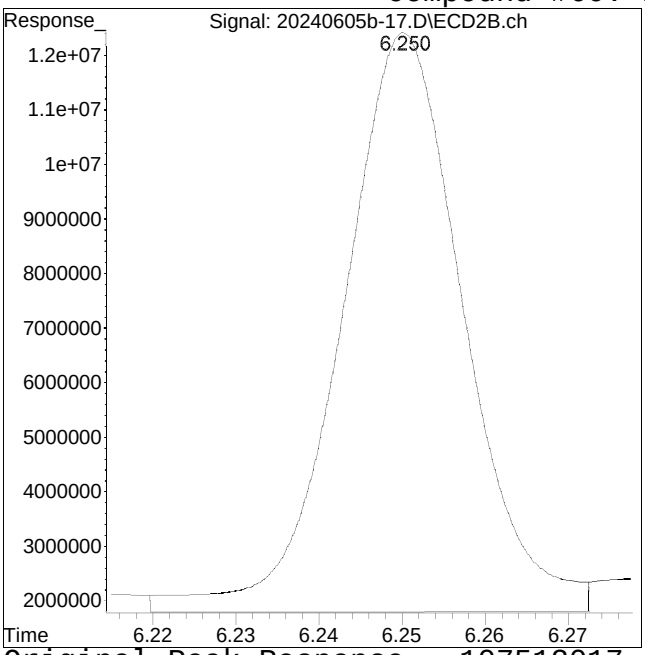
Manual Peak Response = 68294257 M4

M4 = Poor automated baseline construction.

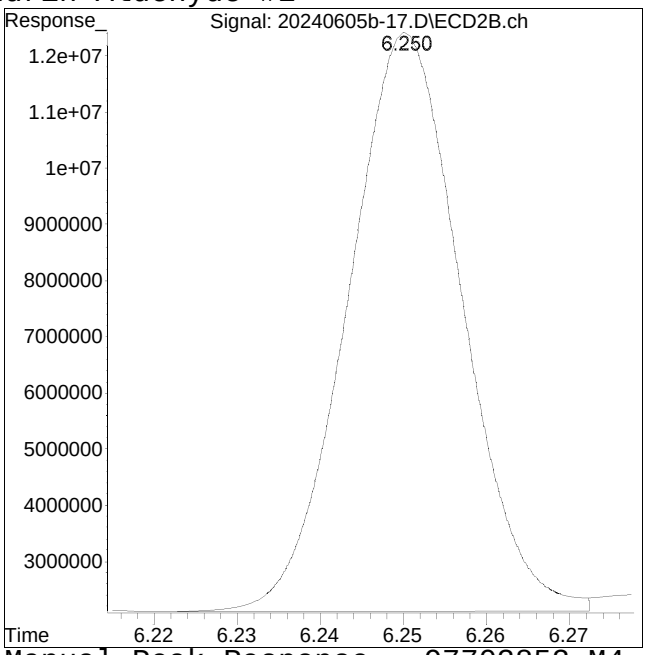
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 107512017



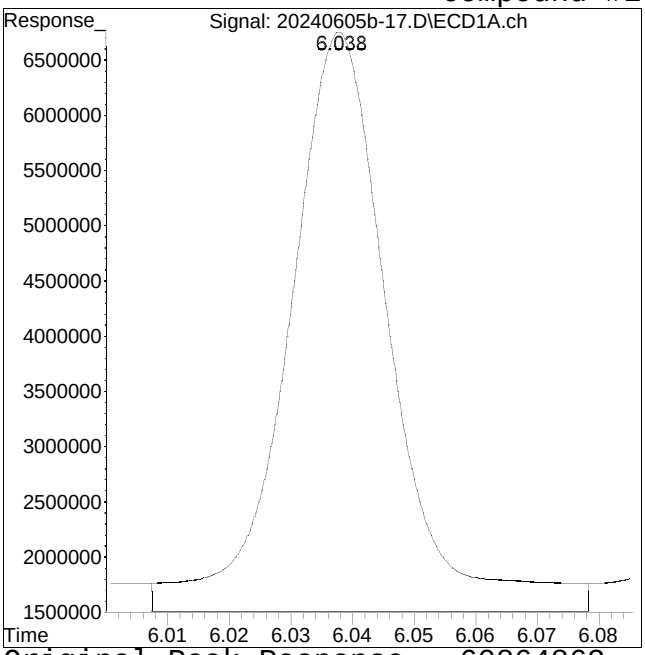
Manual Peak Response = 97703852 M4

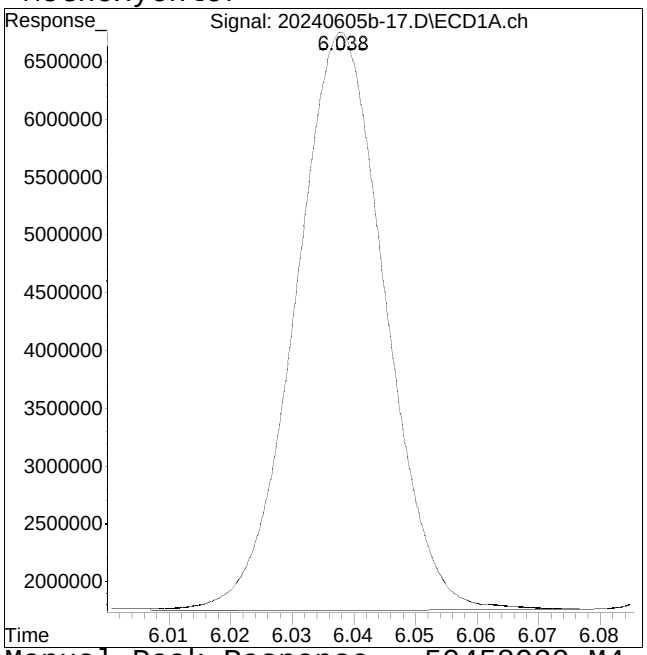
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #23: Methoxychlor



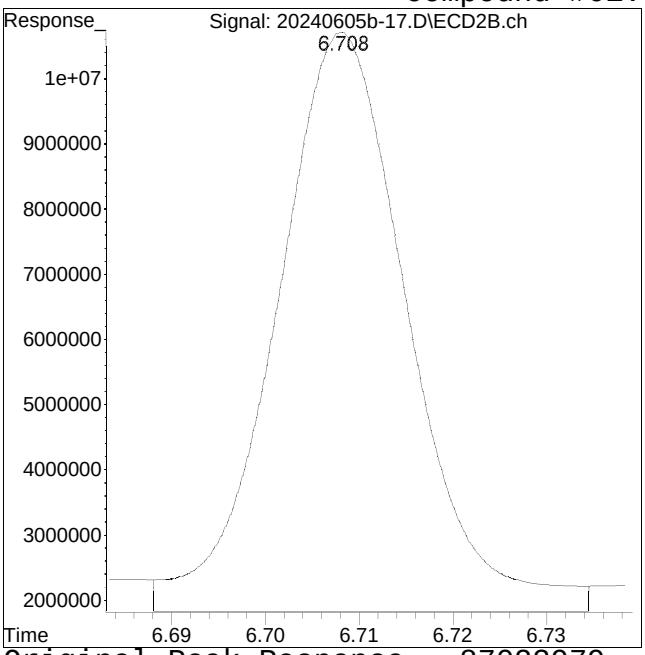


Original Peak Response = 60864862 Manual Peak Response = 50458929 M4
M4 = Poor automated baseline construction.

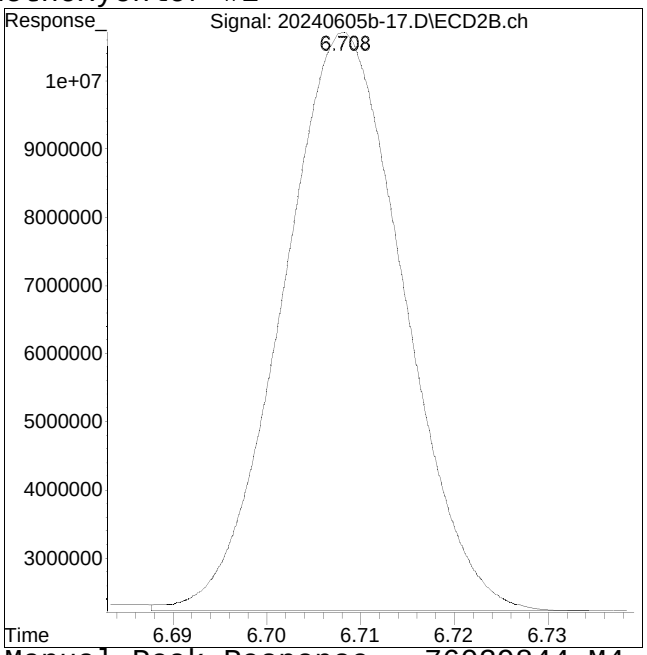
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #61: Methoxychlor #2



Original Peak Response = 87023979



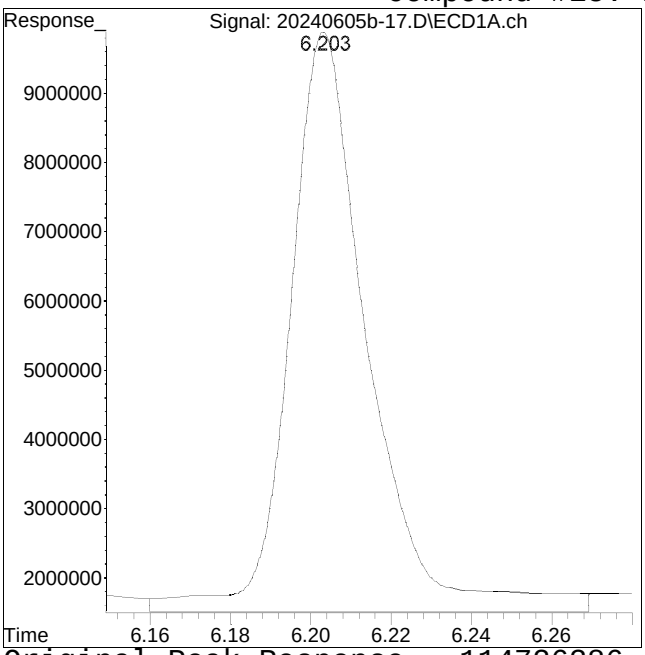
Manual Peak Response = 76039844 M4

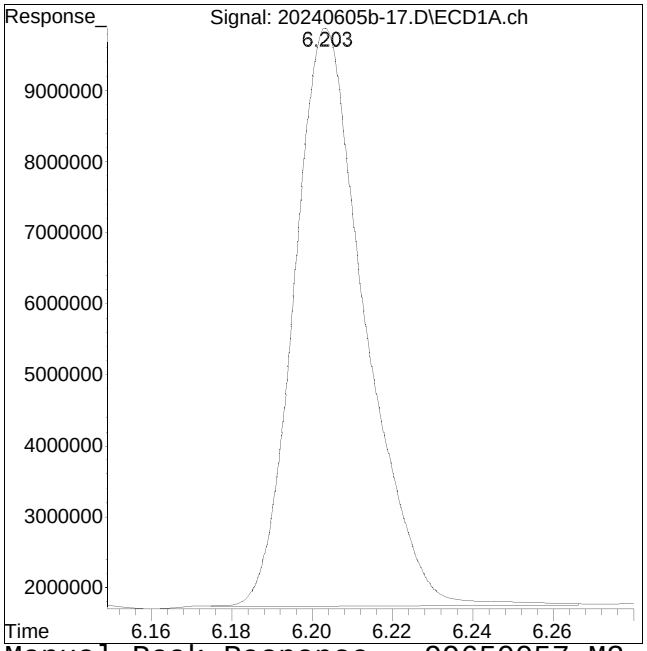
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #25: Endosulfan Sulfate



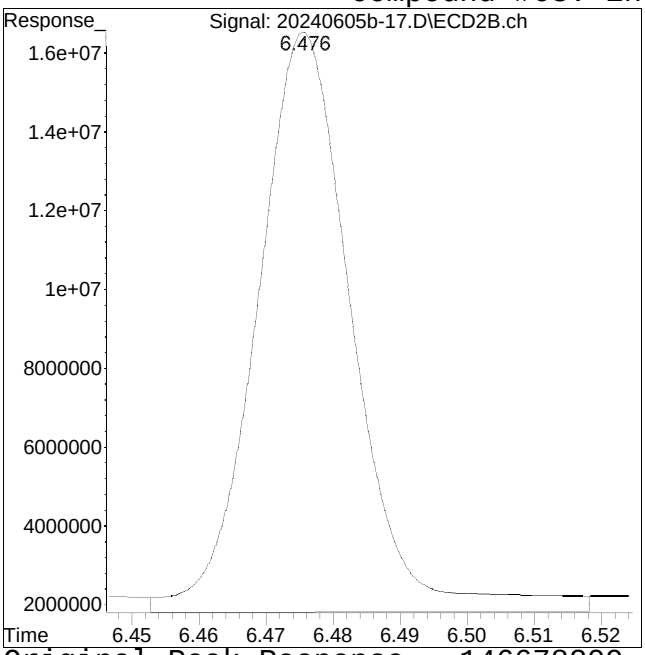


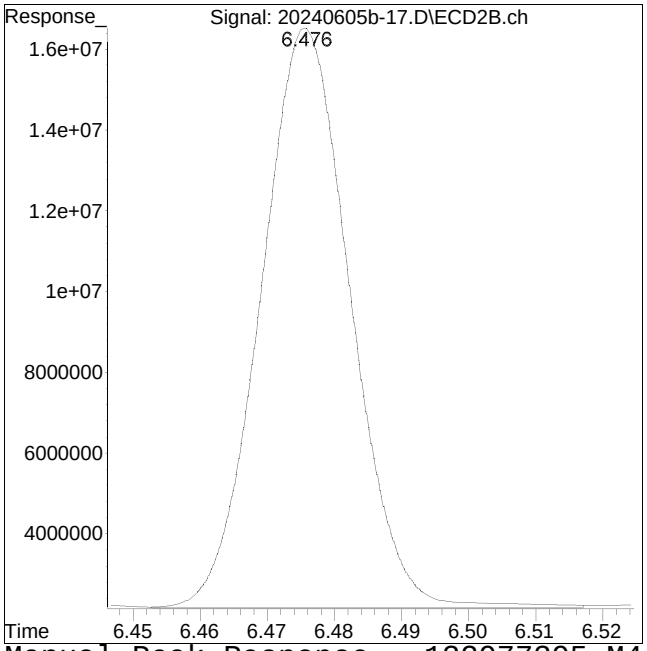
Original Peak Response = 114726386 Manual Peak Response = 99650057 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #63: Endosulfan Sulfate #2



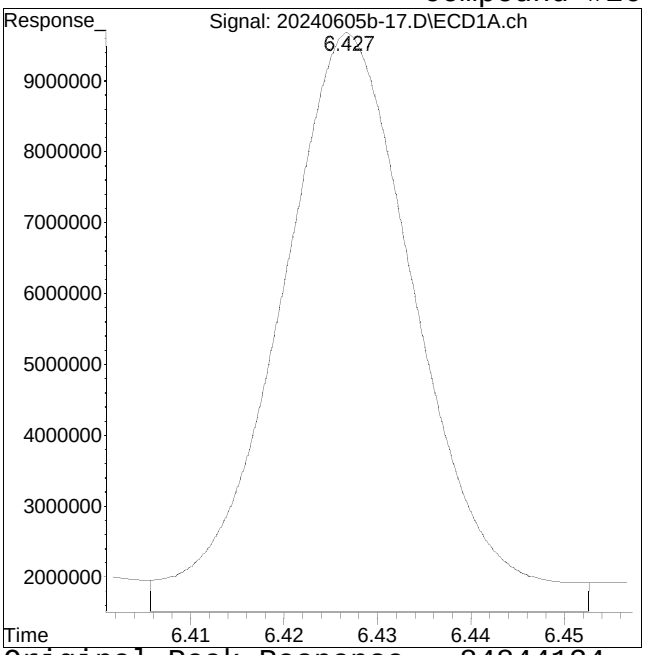


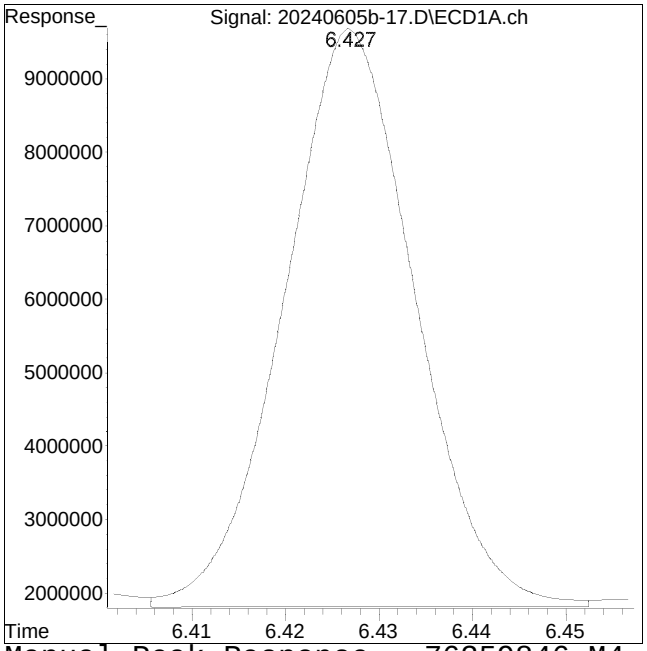
Original Peak Response = 146678209 Manual Peak Response = 132977395 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #26: Endrin Ketone



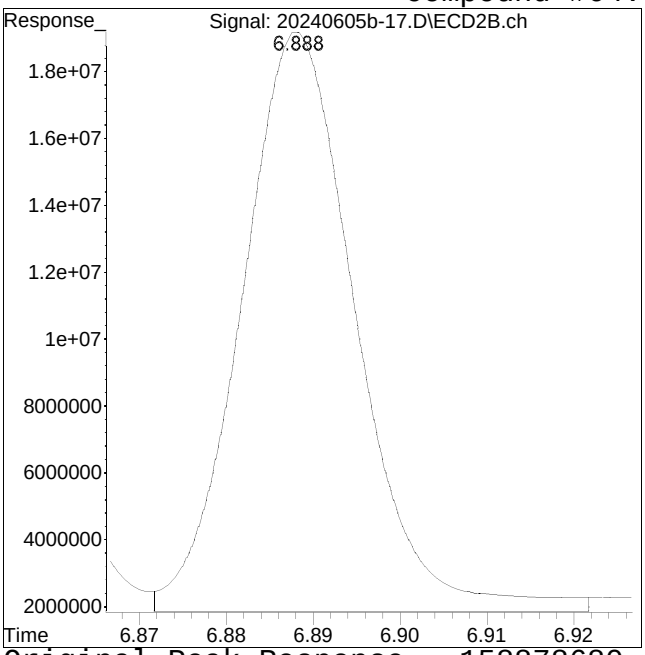


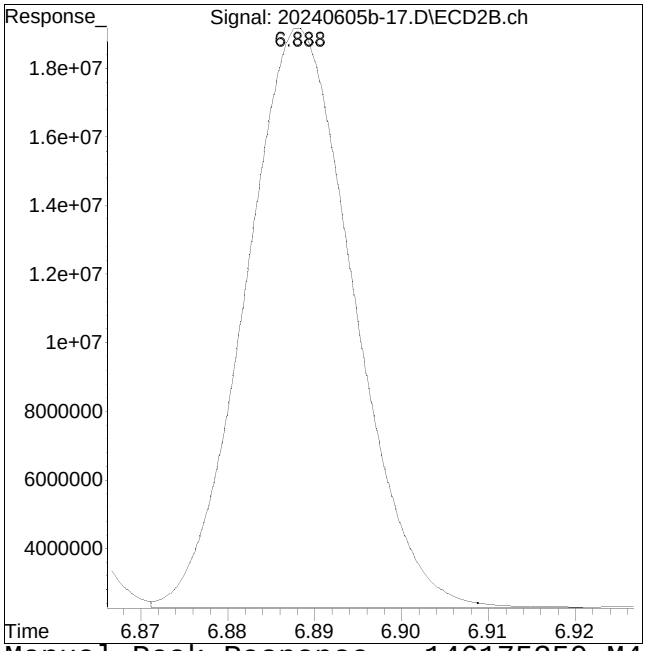
Original Peak Response = 84844134 Manual Peak Response = 76359846 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #64: Endrin Ketone #2



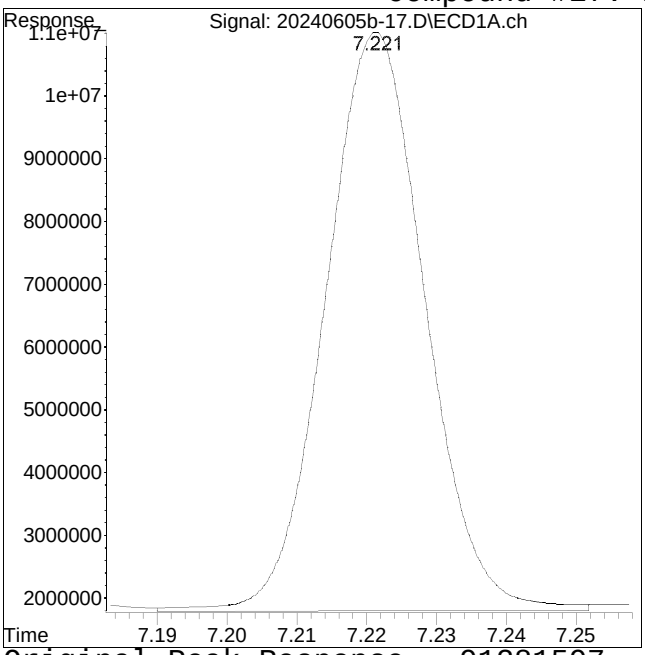


Original Peak Response = 158878680 Manual Peak Response = 146175350 M4
M4 = Poor automated baseline construction.

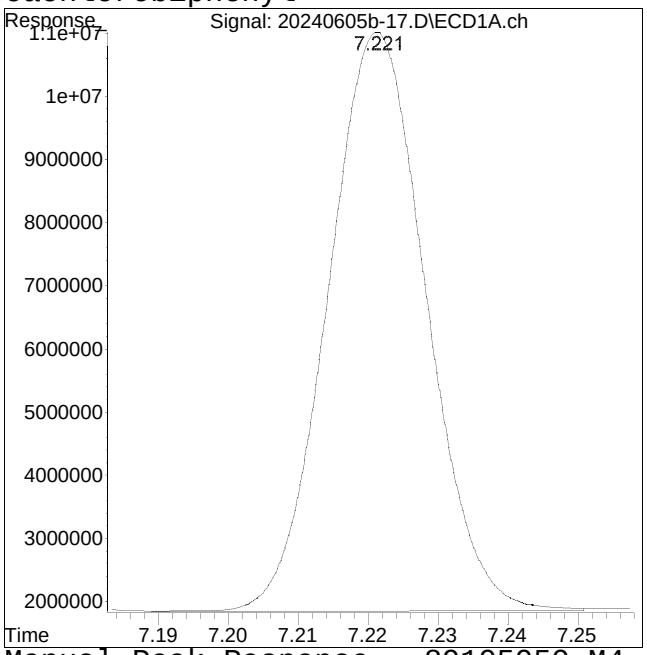
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 91281597



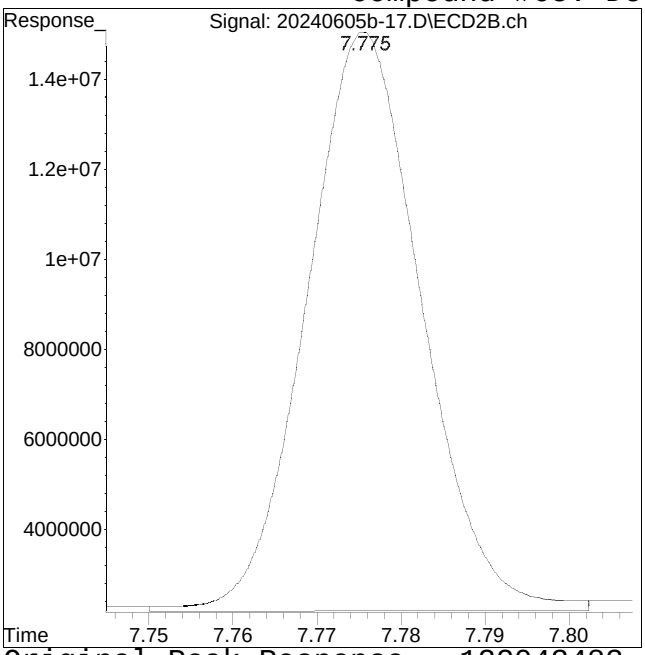
Manual Peak Response = 89195959 M4

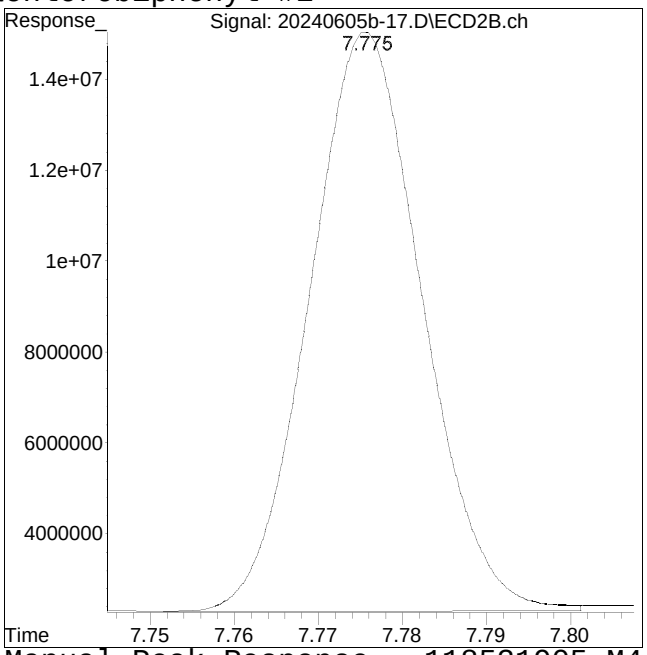
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-17.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:27 pm Instrument : PEST 20
Sample : WG1929733-2,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 122043483 Manual Peak Response = 118531905 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-18.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 10:40 pm
Operator : pest20:ejl
Sample : WG1929733-3,42,, 733 734 (Sig #1); WG1929730-3,42,, 733 734 (Sig #2)
Misc : wg1930283,WG1929733,ical21144 (Sig #1); wg1930283,WG1929730,ical21144 (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:50:27 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240605b\20240605b-03.D
Sub List : LCS_MS - spk only

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	1.883	1.925	60009566	93164108	25.000	25.000M3
		Standard Area 1 : #1 = 60467879				Recovery =	99.24%	
		Standard Area 1 : #2 = 94939114				Recovery =	98.13%	
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	2.349	2.518	89889593	133.9E6	32.552	32.385M3
		Spiked Amount 50.000	Range 30 - 150		Recovery =	65.10%	64.77%	
27)	s	Decachlorobi	7.223	7.776	93200269	121.2E6	38.740	36.851M4
		Spiked Amount 50.000	Range 30 - 150		Recovery =	77.48%	73.70%	
		Target Compounds						
4)		alpha-BHC	2.734	3.000	119.1E6	184.6E6	36.224	36.178M4
5)		gamma-BHC (l	2.974	3.318	108.4E6	170.1E6	34.462	34.159M3
6)		beta-BHC	3.042	3.392	55802272	83463667	41.234	38.967M4
7)		delta-BHC	3.189	3.682	103.6E6	156.2E6	38.108	33.138M4
8)		Heptachlor	3.373	3.749	102.8E6	151.9E6	32.507M3	32.351M4
9)		Aldrin	3.646	4.092	100.1E6	148.7E6	32.176	33.673M4
12)		Heptachlor E	4.247	4.745	98956715	146.0E6	32.544	32.726
13)		gamma-Chlord	4.383	4.969	104.7E6	149.1E6	37.693	37.756M4
14)		alpha-Chlord	4.529	5.132	99454800	146.6E6	31.337	33.540M4
15)		4,4'-DDE	4.634	5.322	101.7E6	145.8E6	34.926M4	34.237M4
16)		Endosulfan I	4.675	5.191	92932302	138.7E6	32.153M4	33.912M4
17)		Dieldrin	4.949	5.476	107.5E6	158.9E6	36.506	37.991
18)		Endrin	5.193	5.766	101.3E6	149.9E6	34.386M4	35.333
19)		4,4'-DDD	5.294	5.882	87895132	130.5E6	42.361M4	37.980

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-18.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 10:40 pm
Operator : pest20:ejl
Sample : WG1929733-3,42,, 733 734 (Sig #1); WG1929730-3,42,, 733 734 (Sig #2)
Misc : wg1930283,WG1929733,ical21144 (Sig #1); wg1930283,WG1929730,ical21144 (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:50:27 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240605b\20240605b-03.D
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
20)	Endosulfan I	5.422	5.960	88997771	135.2E6	35.498M4	35.068M3
21)	4,4'-DDT	5.572	6.153	86175393	130.8E6	38.377M4	34.927M4
22)	Endrin Aldeh	5.822	6.250	58004378	84357796	30.678M4	28.358M4
23)	Methoxychlor	6.039	6.708	50592746	74315494	43.911M4	34.179M4
25)	Endosulfan S	6.203	6.476	82254173	125.7E6	39.940M3	34.549
26)	Endrin Keton	6.428	6.888	101.2E6	157.3E6	43.547M3	37.533
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

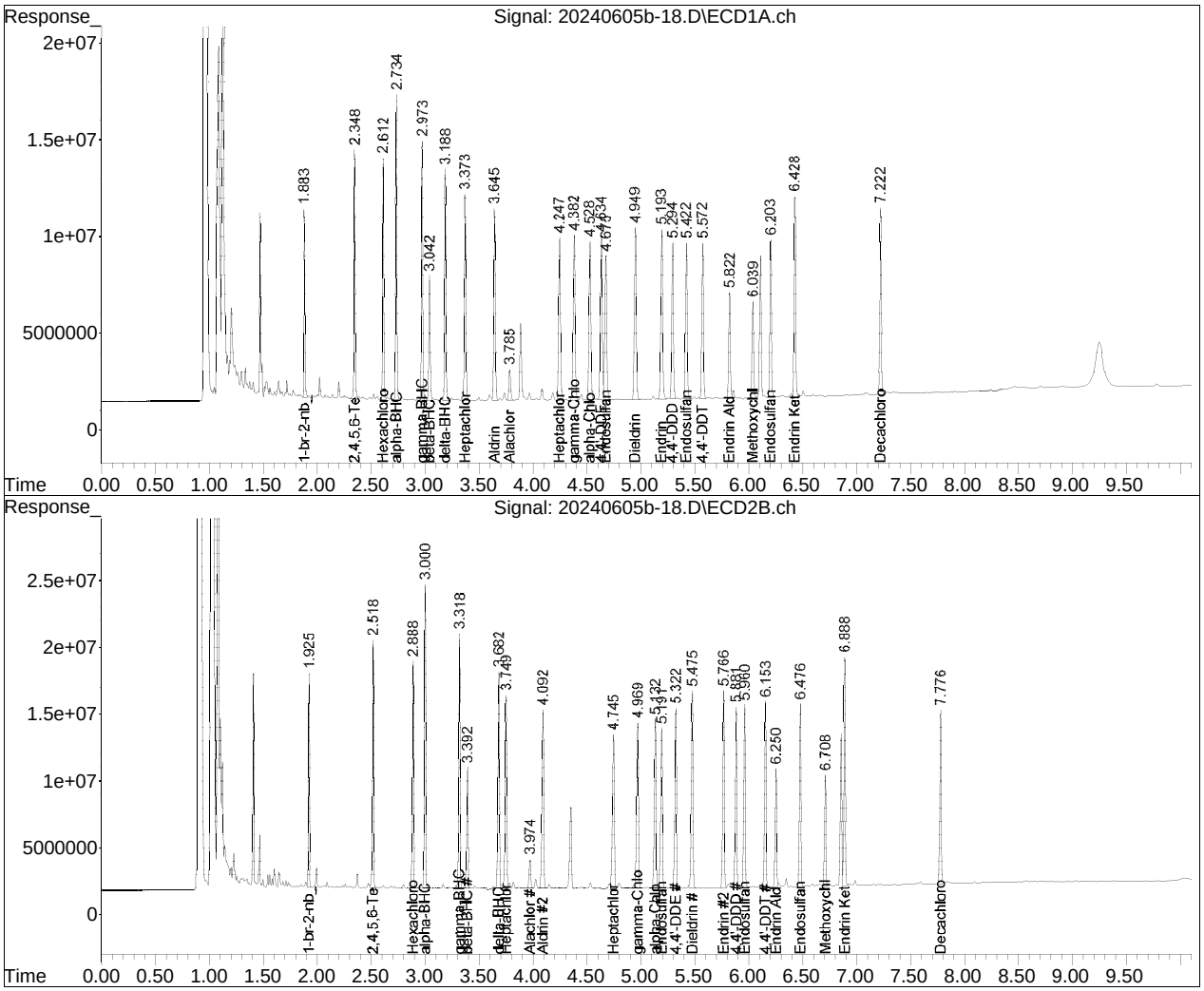
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only0\2024\240605b\20240605b-03.D•

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-18.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 10:40 pm
Operator : pest20:ejl
Sample : WG1929733-3,42,, 733 734 (Sig #1); WG1929730-3,42,, 733 734 (Sig #
Misc : wg1930283,WG1929733,ical21144 (Sig #1); wg1930283,WG1929730,ical21
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:50:27 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

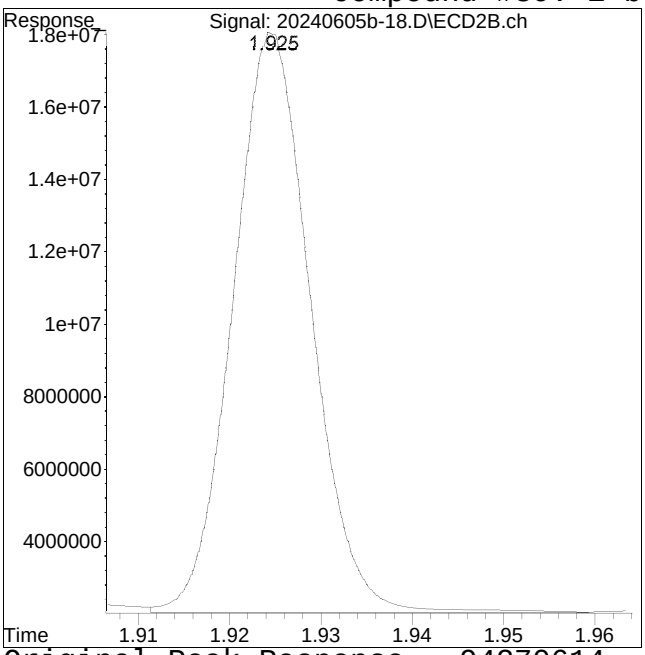
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

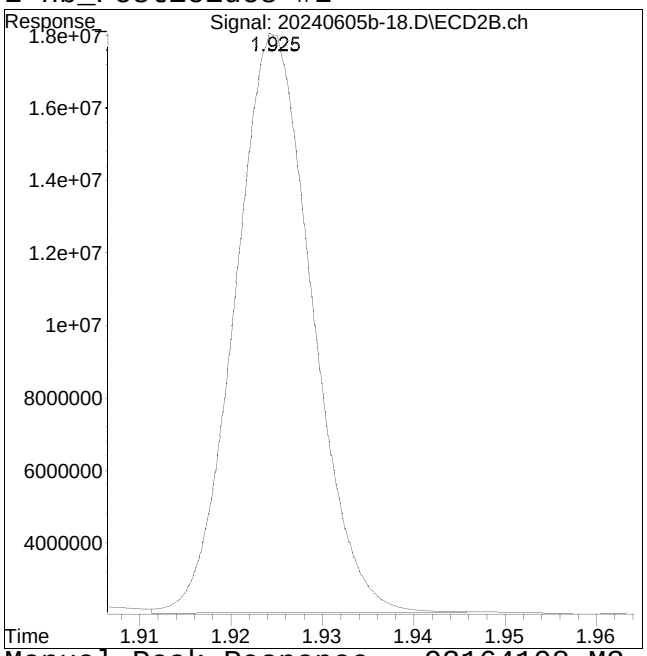


Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-18.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:40 pm Instrument : PEST 20
Sample : WG1929733-3,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #39: 1-br-2-nb_Pesticides #2



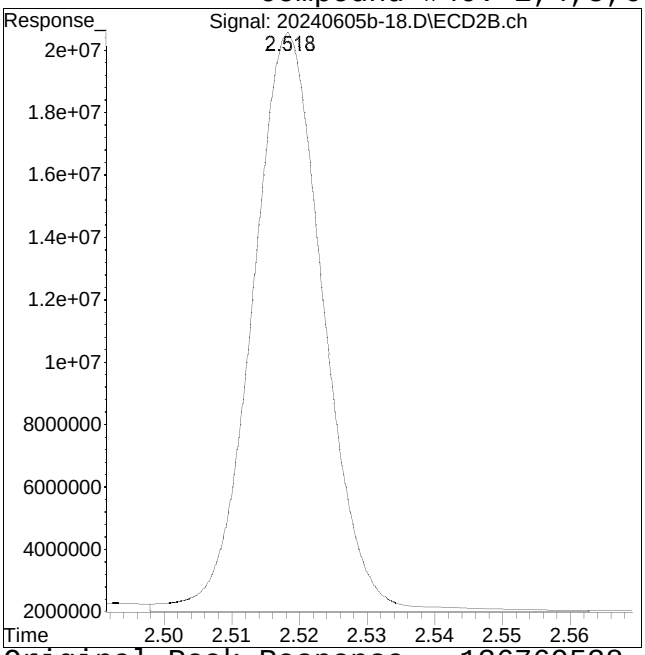


Original Peak Response = 94270614 Manual Peak Response = 93164108 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

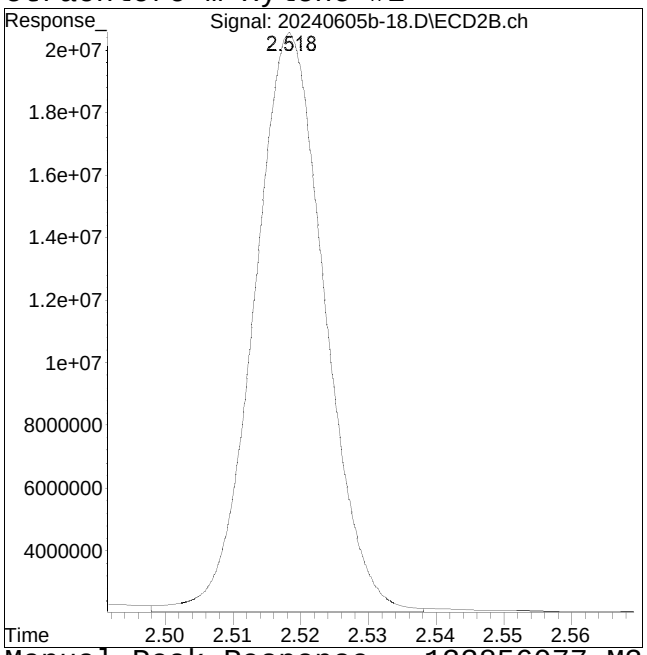
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-18.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:40 pm Instrument : PEST 20
Sample : WG1929733-3,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 136769538



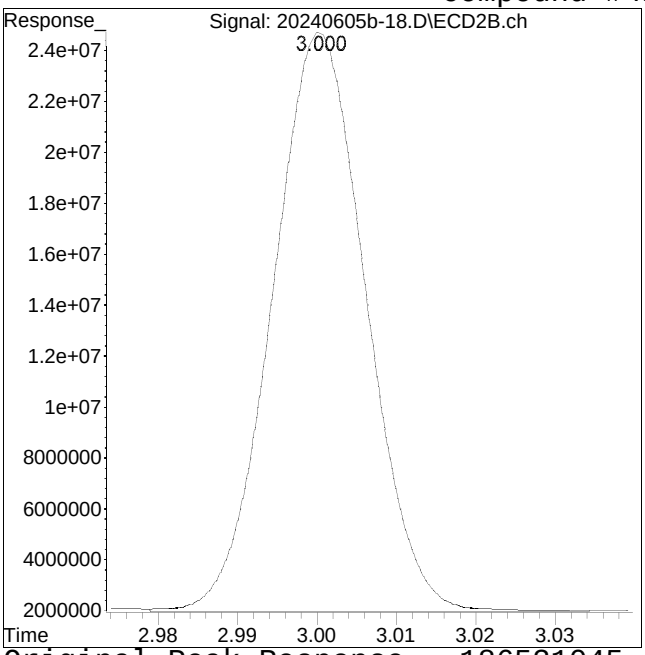
Manual Peak Response = 133856077 M3

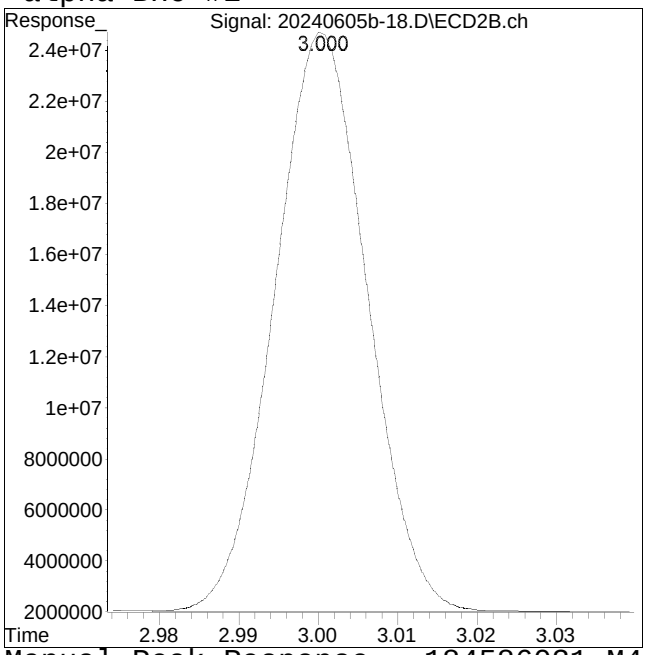
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-18.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:40 pm Instrument : PEST 20
Sample : WG1929733-3,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #42: alpha-BHC #2



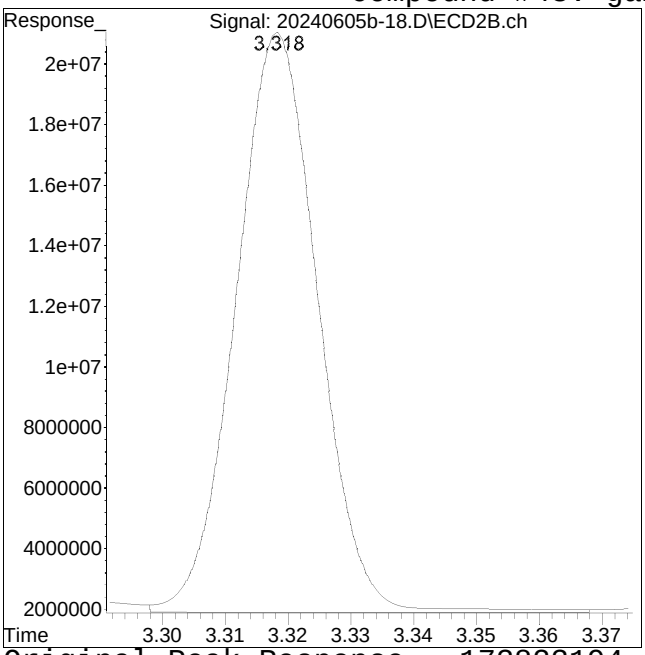


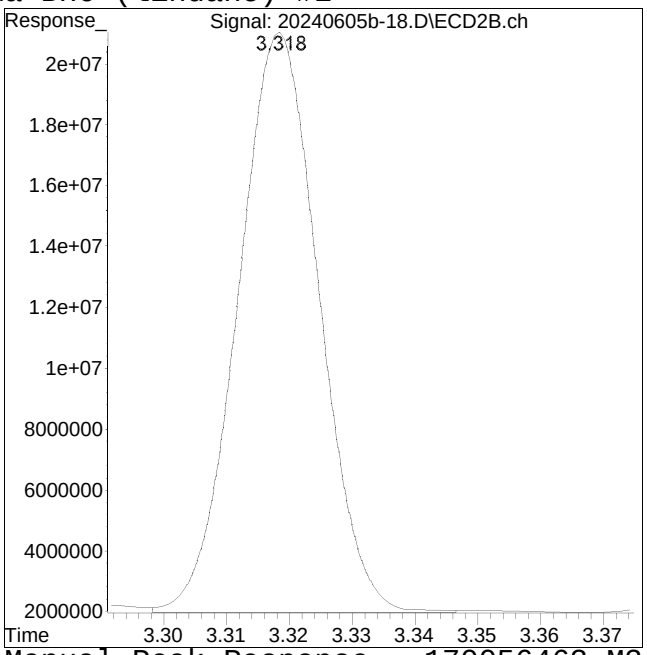
Original Peak Response = 186531045 Manual Peak Response = 184586031 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-18.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:40 pm Instrument : PEST 20
Sample : WG1929733-3,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #43: gamma-BHC (lindane) #2



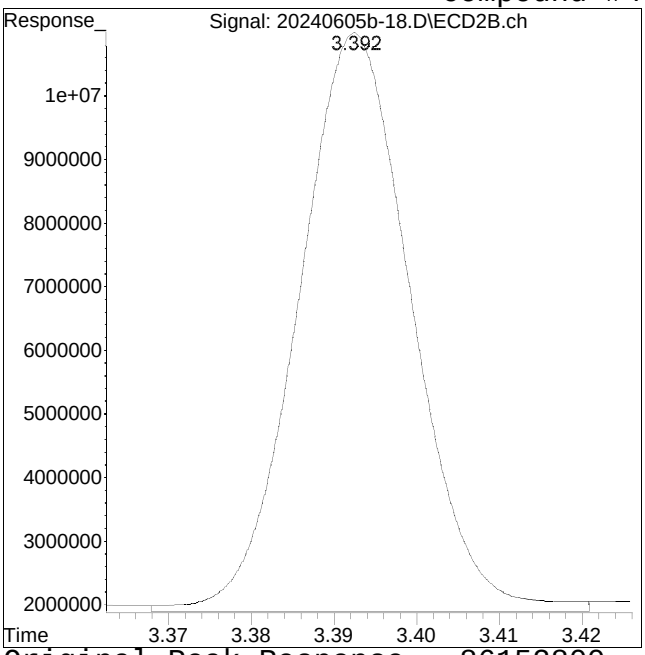


Original Peak Response = 173823194 Manual Peak Response = 170056463 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

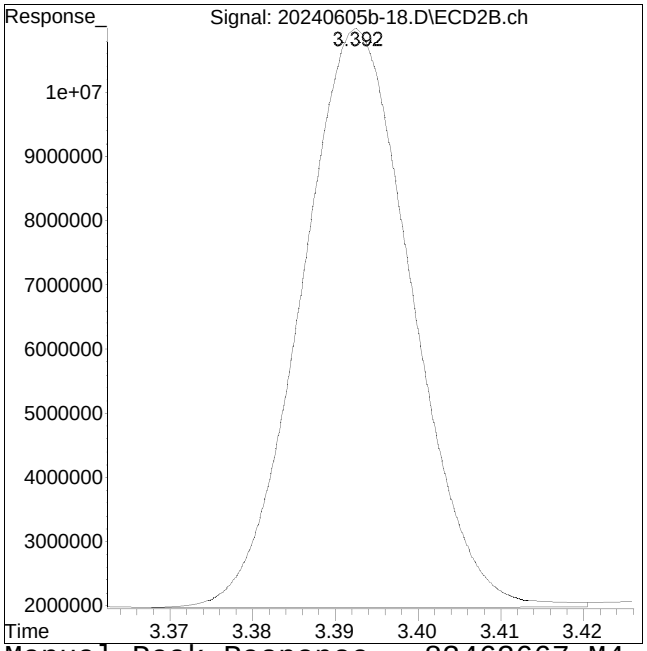
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-18.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:40 pm Instrument : PEST 20
Sample : WG1929733-3,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #44: beta-BHC #2



Original Peak Response = 86152800



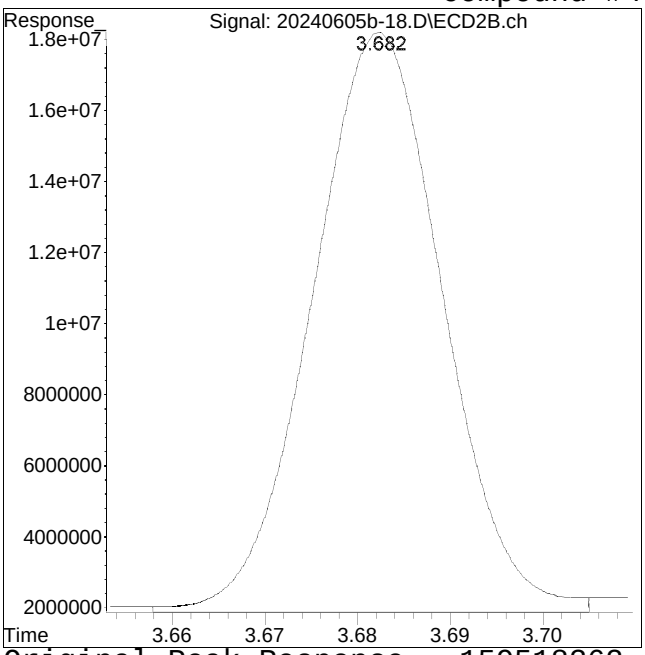
Manual Peak Response = 83463667 M4

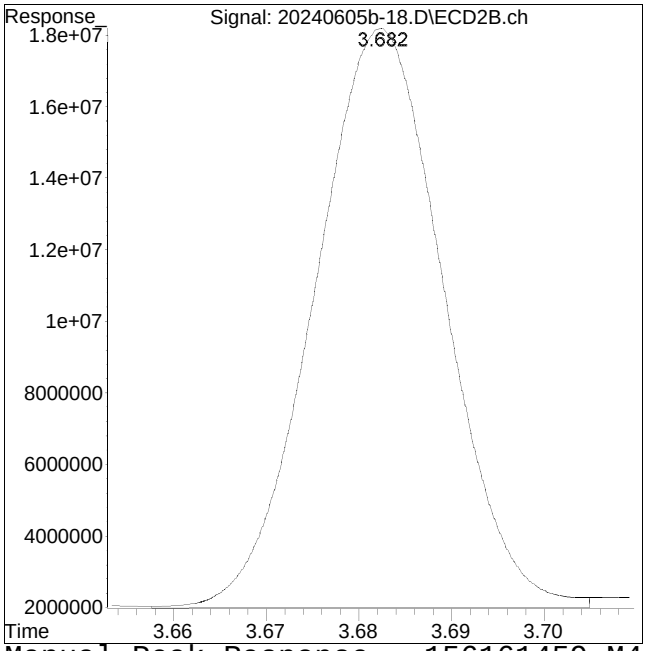
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-18.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:40 pm Instrument : PEST 20
Sample : WG1929733-3,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #45: delta-BHC #2



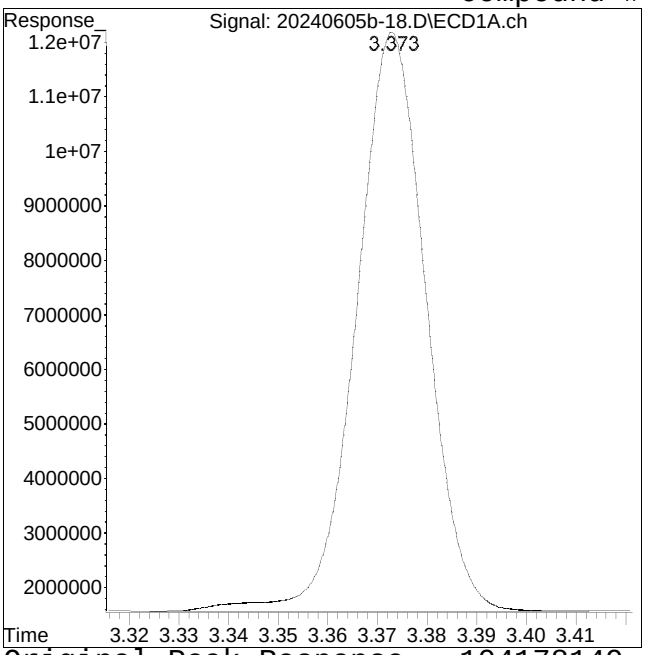


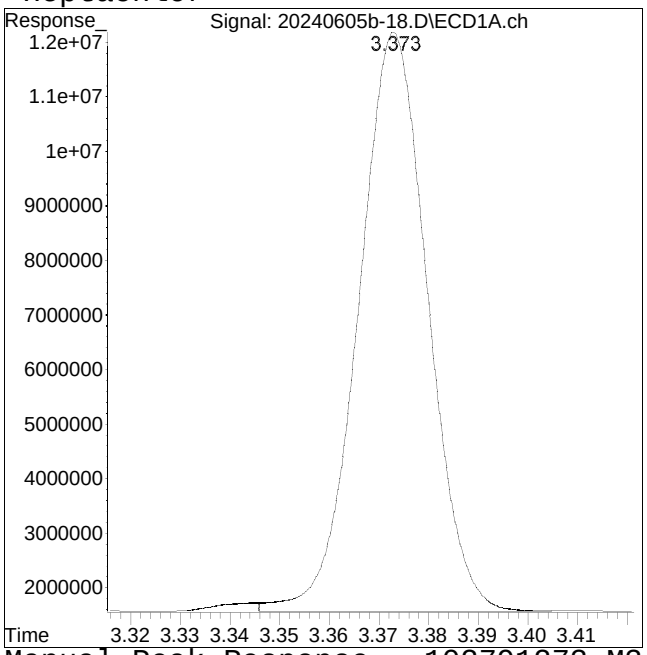
Original Peak Response = 159518362 Manual Peak Response = 156161459 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-18.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:40 pm Instrument : PEST 20
Sample : WG1929733-3,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #8: Heptachlor



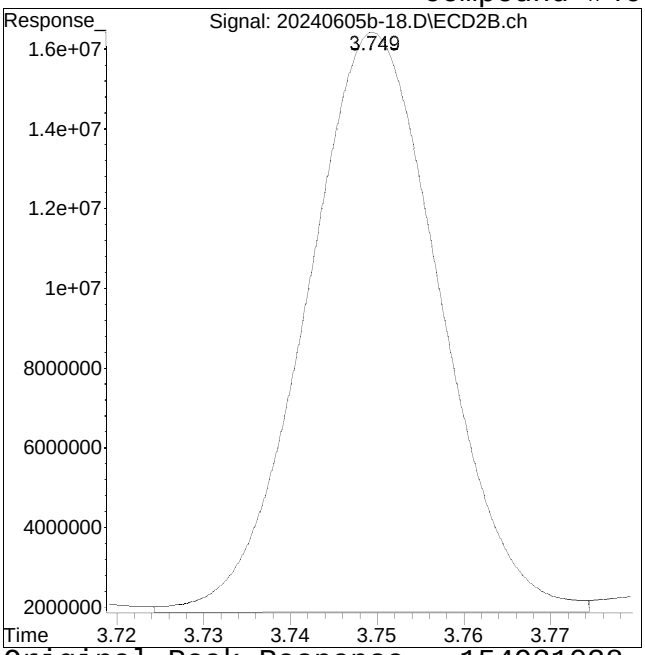


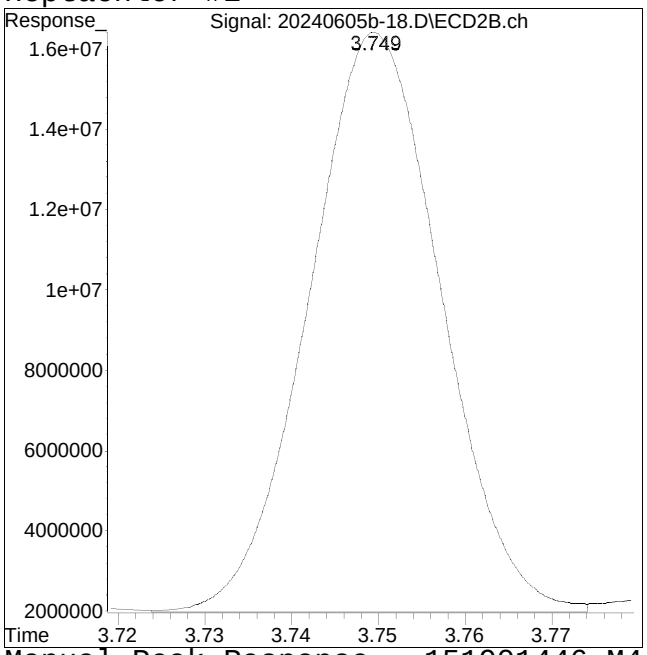
Original Peak Response = 104178149 Manual Peak Response = 102791273 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-18.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:40 pm Instrument : PEST 20
Sample : WG1929733-3,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #46: Heptachlor #2



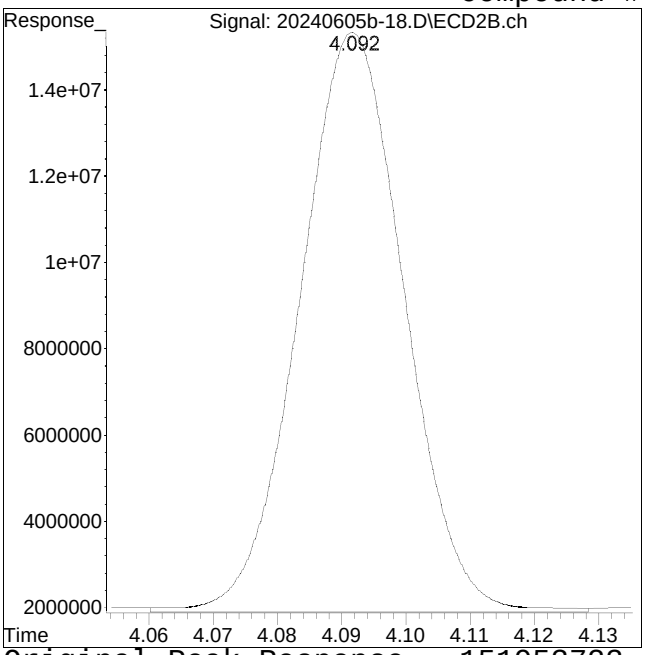


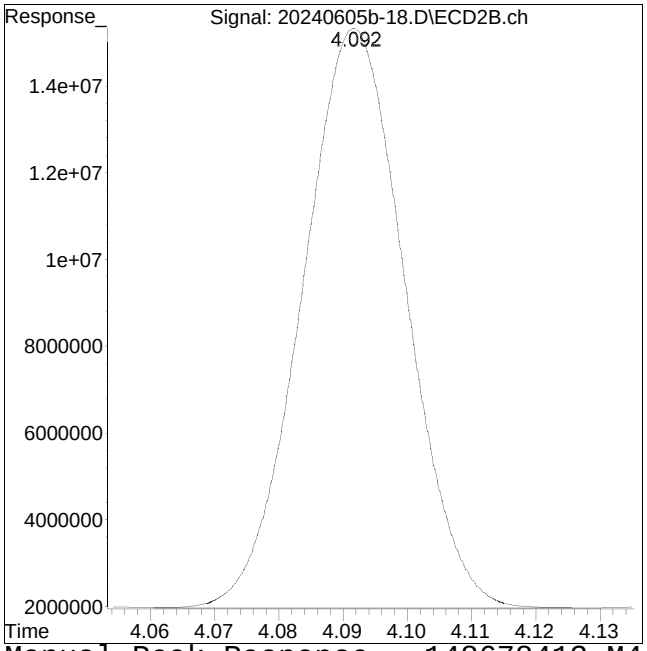
Original Peak Response = 154931038 Manual Peak Response = 151901446 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-18.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:40 pm Instrument : PEST 20
Sample : WG1929733-3,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #47: Aldrin #2



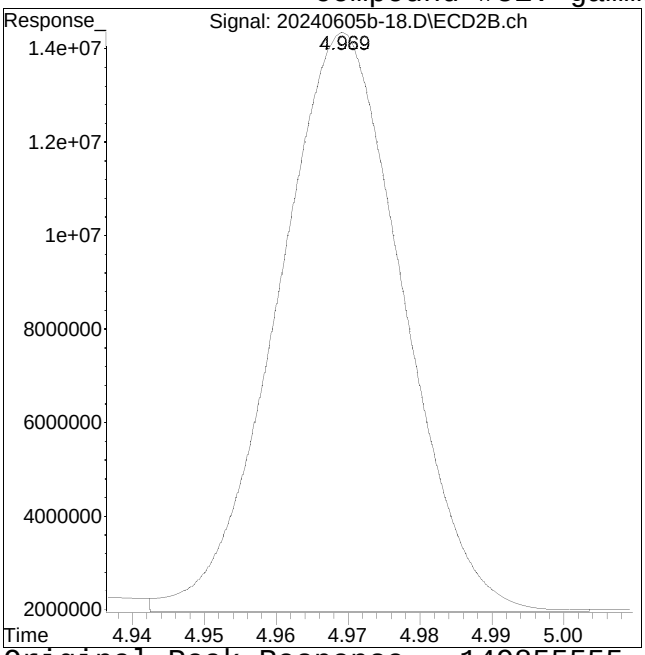


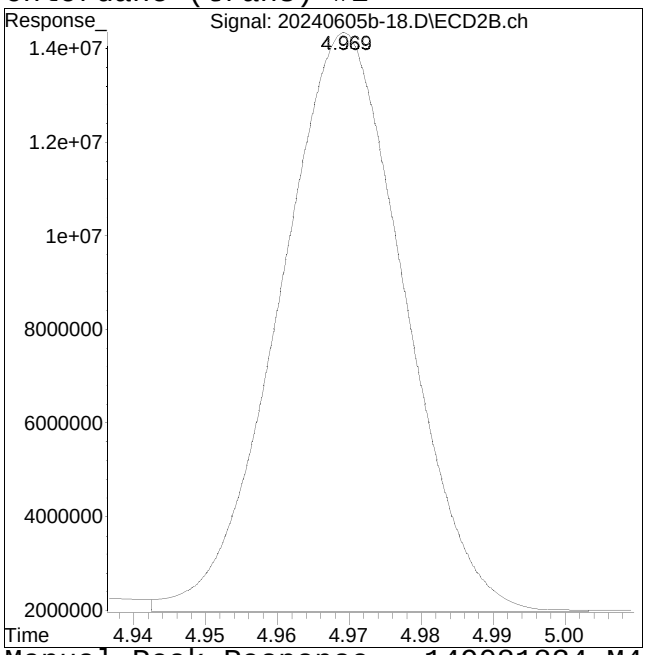
Original Peak Response = 151953723 Manual Peak Response = 148678413 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-18.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:40 pm Instrument : PEST 20
Sample : WG1929733-3,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #51: gamma-Chlordane (trans) #2



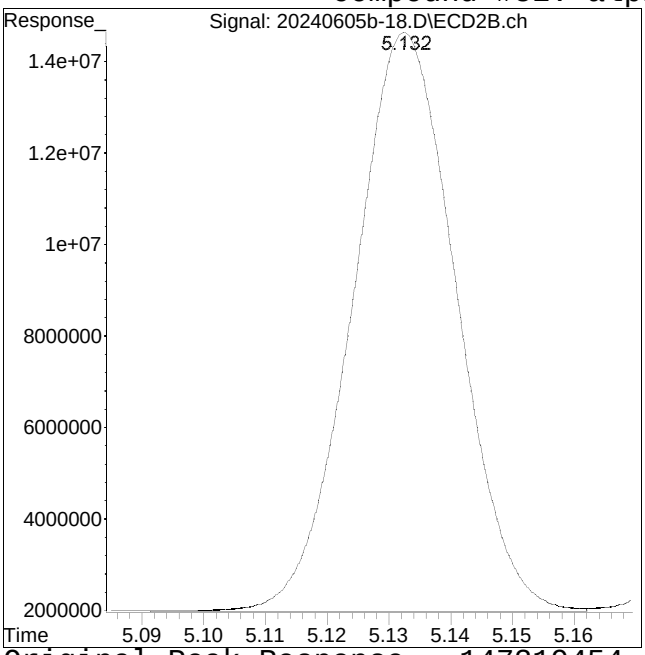


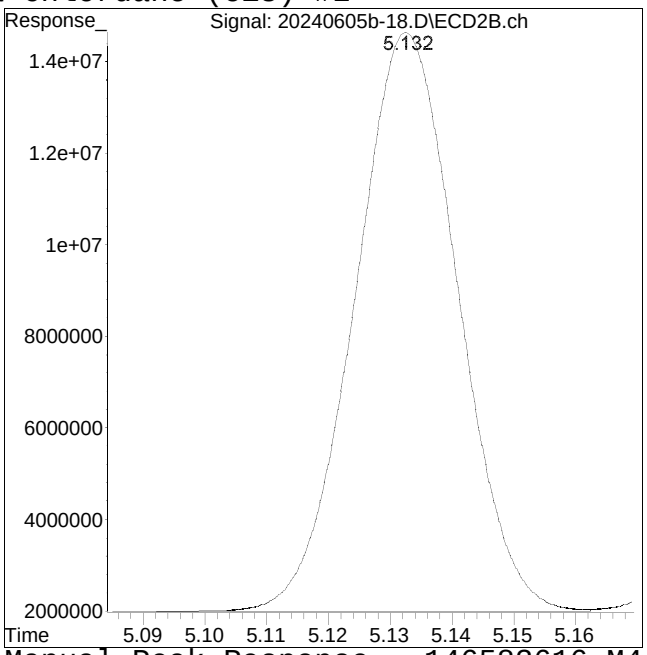
Original Peak Response = 149855555 Manual Peak Response = 149081834 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-18.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:40 pm Instrument : PEST 20
Sample : WG1929733-3,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #52: alpha-Chlordane (cis) #2



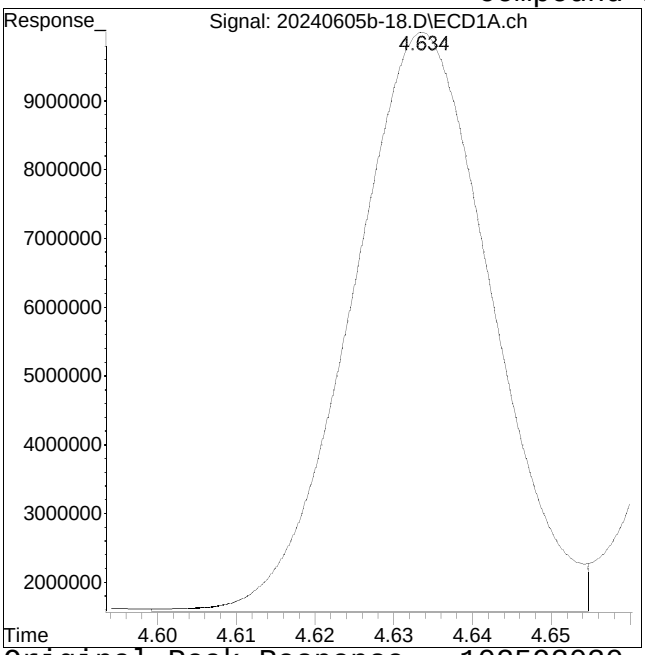


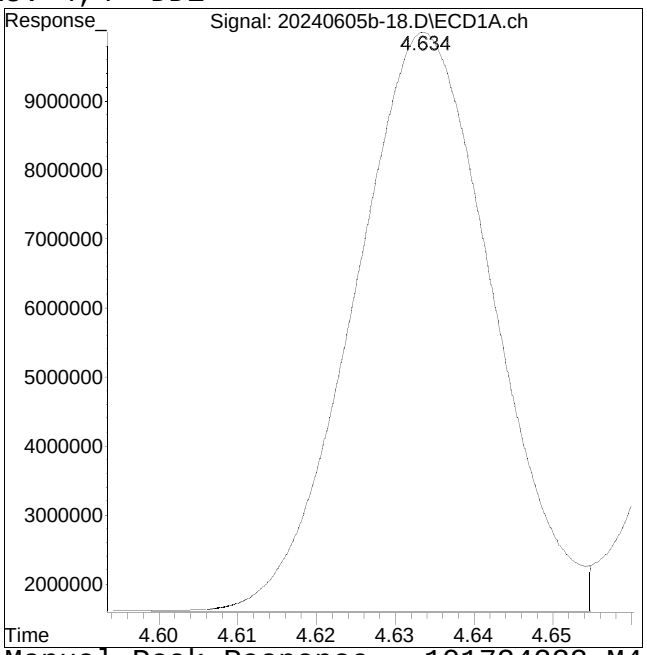
Original Peak Response = 147319454 Manual Peak Response = 146583616 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-18.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:40 pm Instrument : PEST 20
Sample : WG1929733-3,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #15: 4,4'-DDE



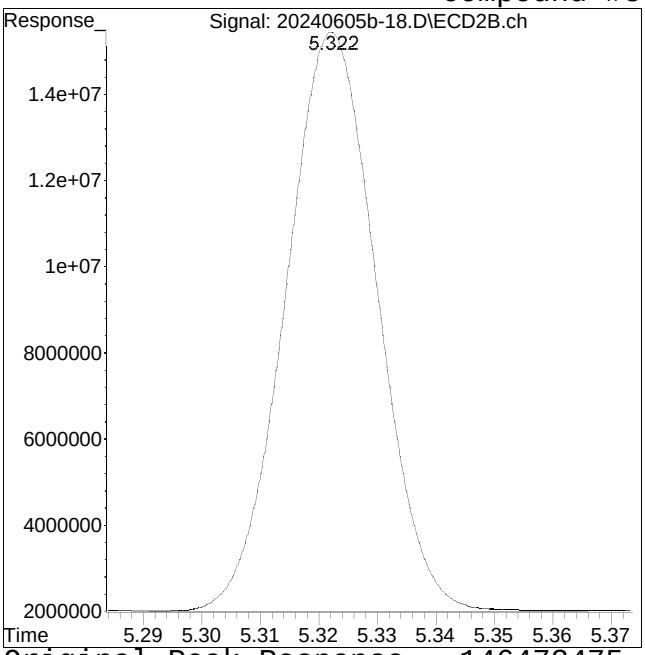


Original Peak Response = 102593030 Manual Peak Response = 101724232 M4
M4 = Poor automated baseline construction.

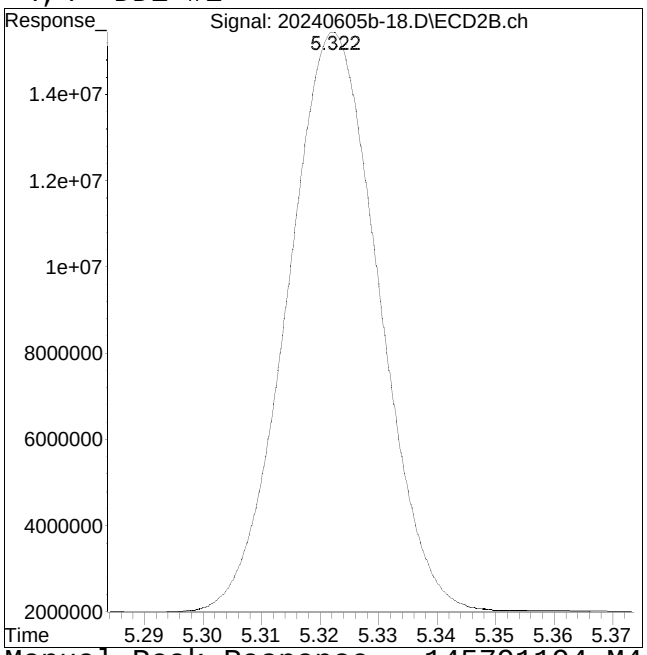
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-18.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:40 pm Instrument : PEST 20
Sample : WG1929733-3,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 146472475



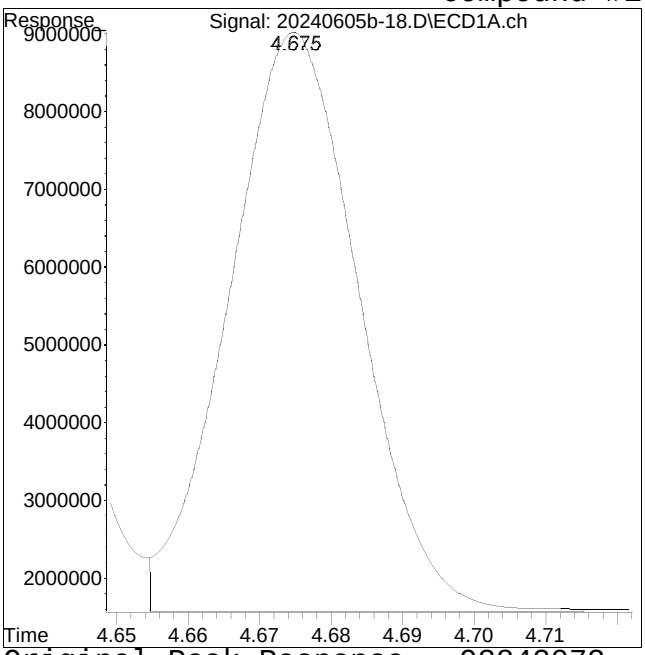
Manual Peak Response = 145791194 M4

M4 = Poor automated baseline construction.

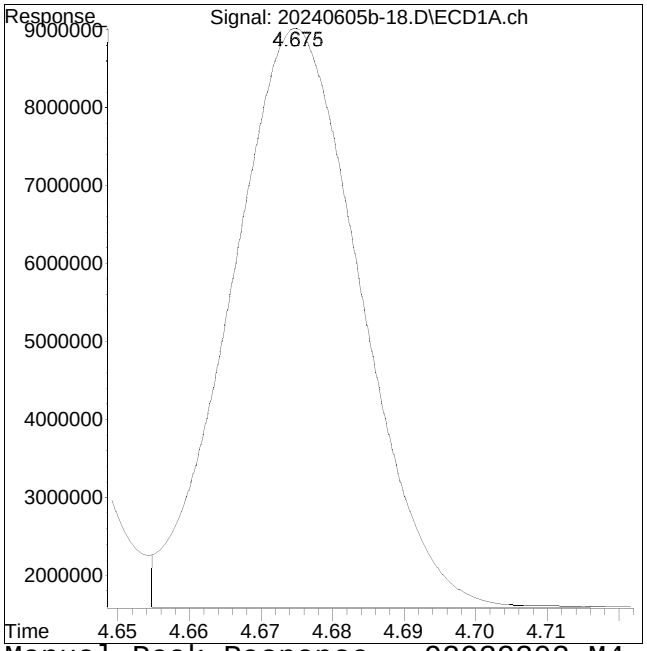
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-18.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:40 pm Instrument : PEST 20
Sample : WG1929733-3,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #16: Endosulfan I



Original Peak Response = 93842072



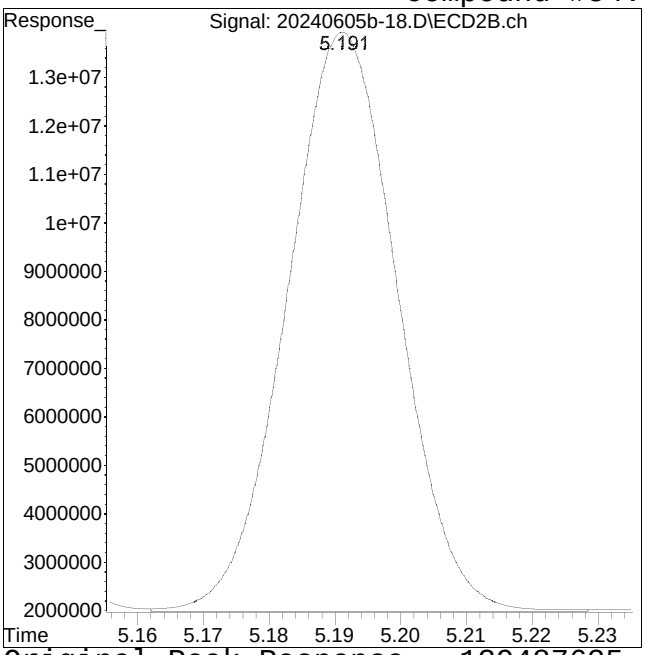
Manual Peak Response = 92932302 M4

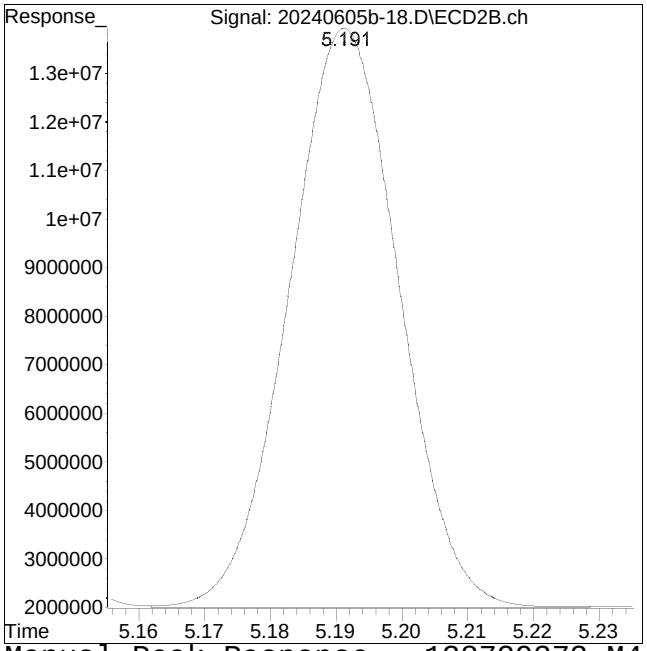
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-18.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:40 pm Instrument : PEST 20
Sample : WG1929733-3,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #54: Endosulfan I #2



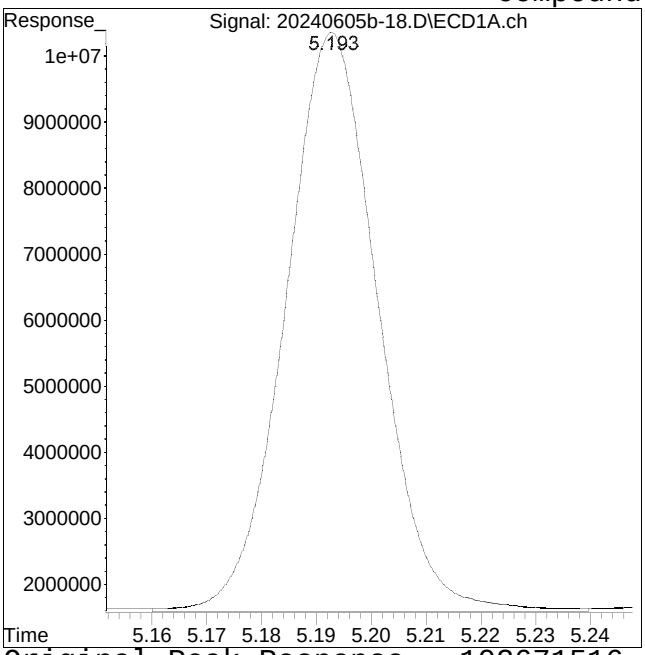


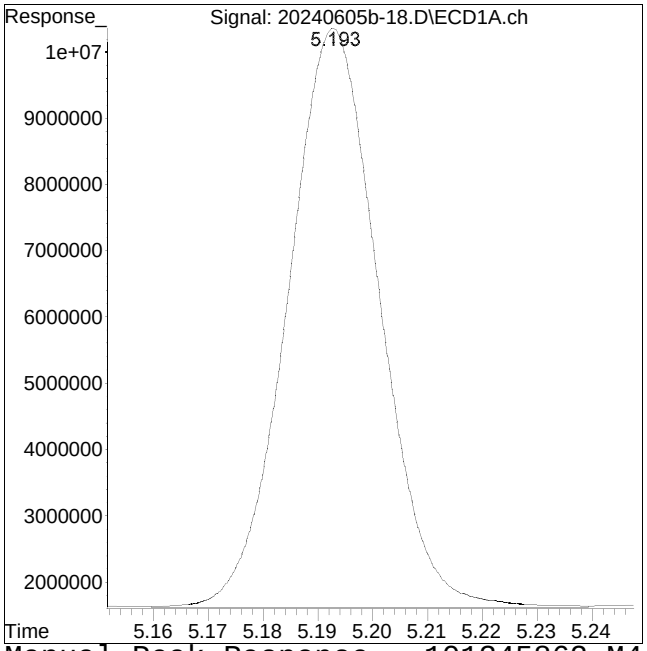
Original Peak Response = 139487635 Manual Peak Response = 138729373 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-18.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:40 pm Instrument : PEST 20
Sample : WG1929733-3,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #18: Endrin



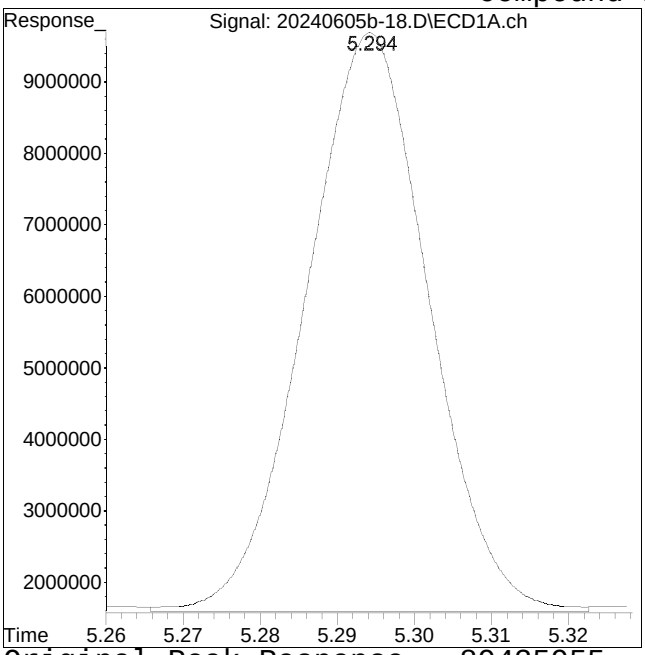


Original Peak Response = 102671516 Manual Peak Response = 101345862 M4
M4 = Poor automated baseline construction.

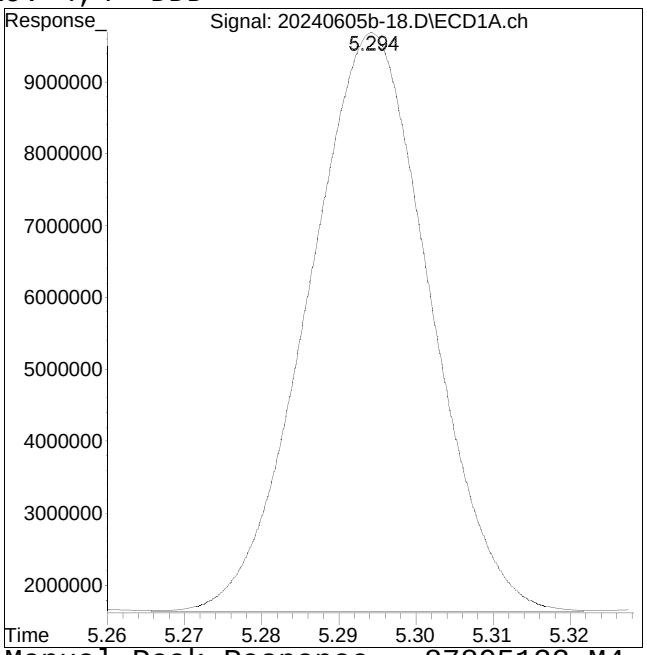
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-18.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:40 pm Instrument : PEST 20
Sample : WG1929733-3,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #19: 4,4'-DDD



Original Peak Response = 89435955



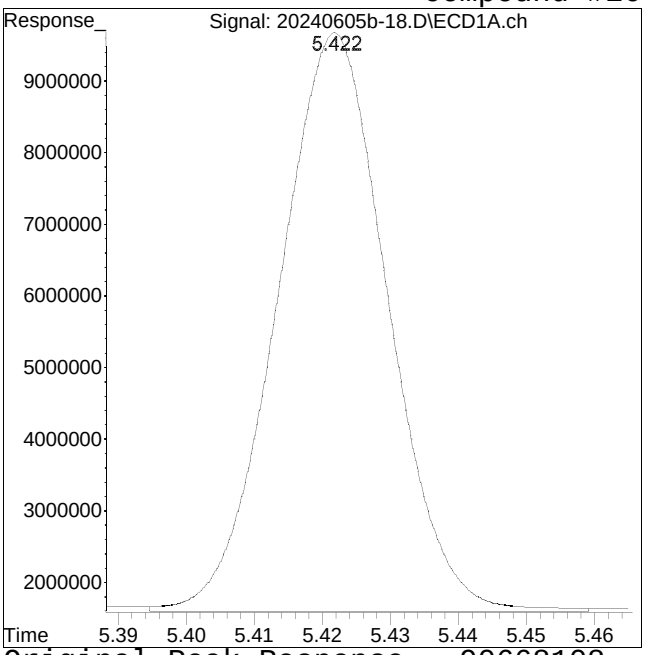
Manual Peak Response = 87895132 M4

M4 = Poor automated baseline construction.

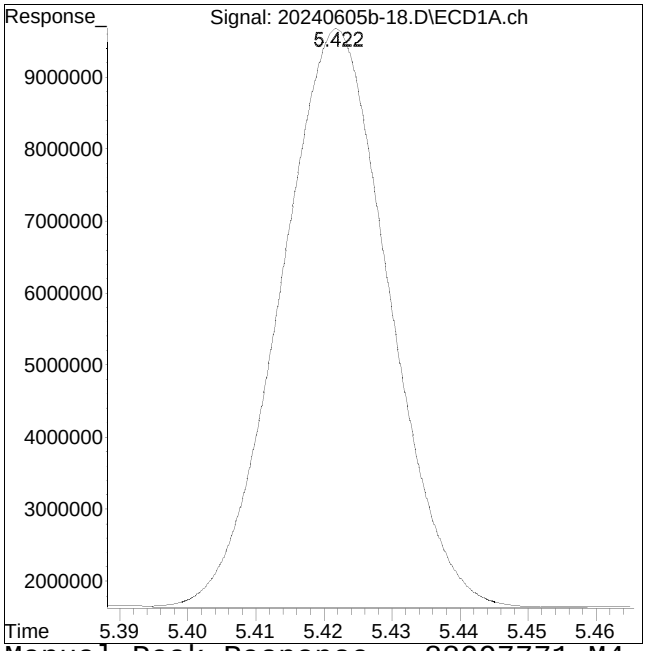
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-18.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:40 pm Instrument : PEST 20
Sample : WG1929733-3,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #20: Endosulfan II



Original Peak Response = 90668108



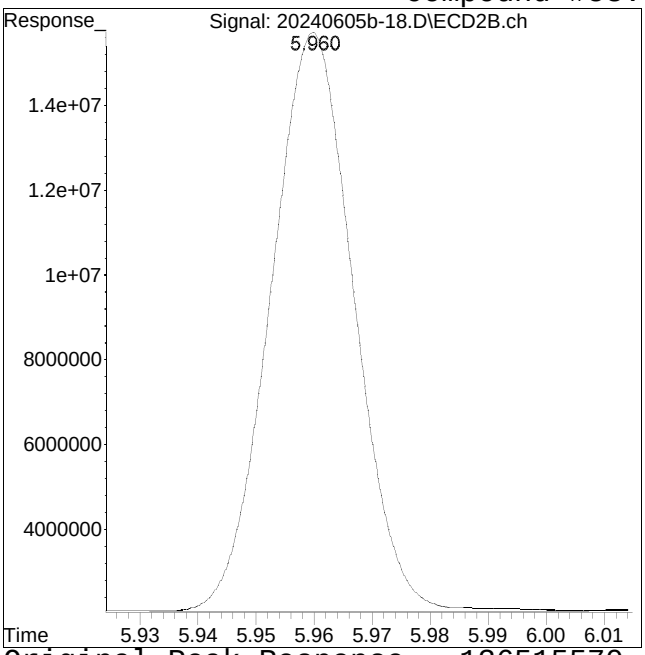
Manual Peak Response = 88997771 M4

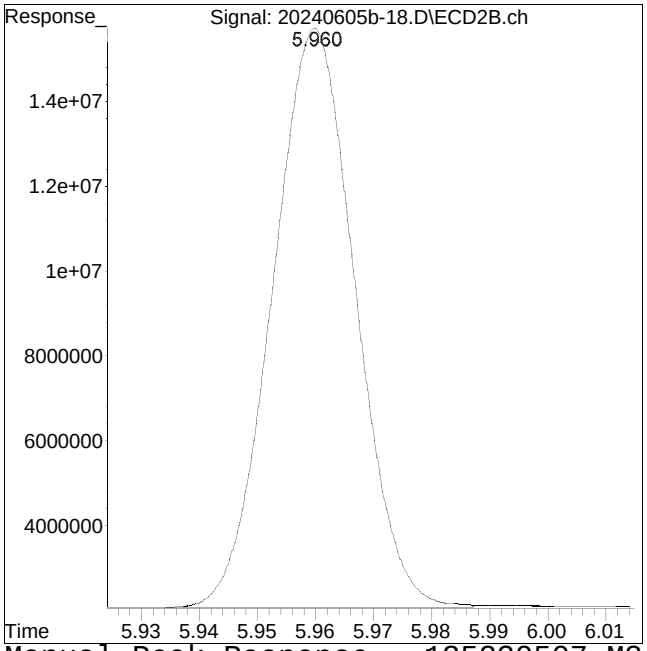
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-18.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:40 pm Instrument : PEST 20
Sample : WG1929733-3,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #58: Endosulfan II #2



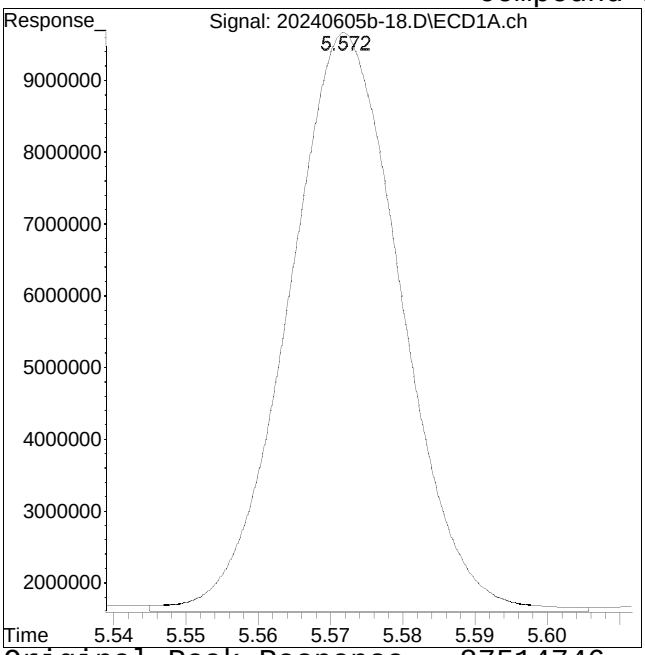


Original Peak Response = 136515570 Manual Peak Response = 135230507 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

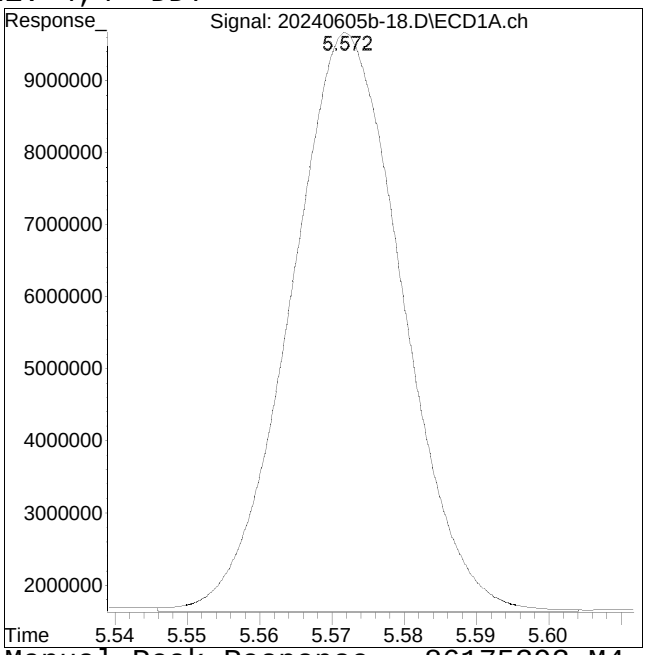
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-18.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:40 pm Instrument : PEST 20
Sample : WG1929733-3,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #21: 4,4'-DDT



Original Peak Response = 87514746



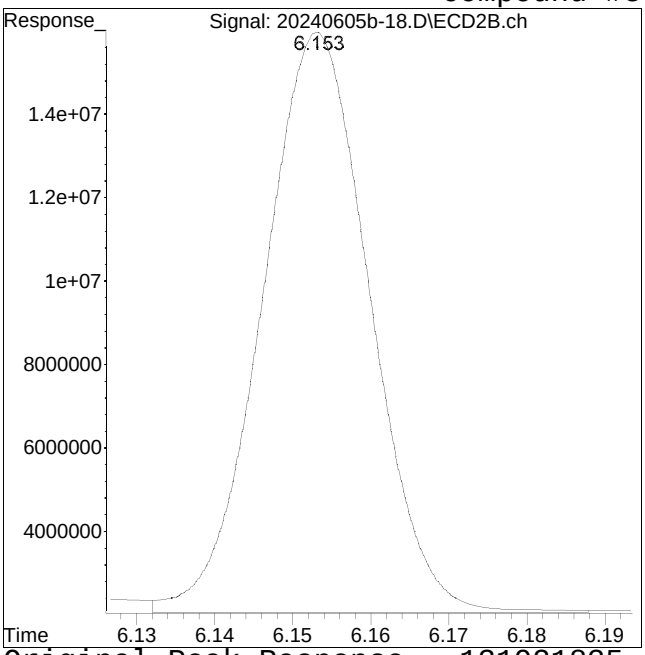
Manual Peak Response = 86175393 M4

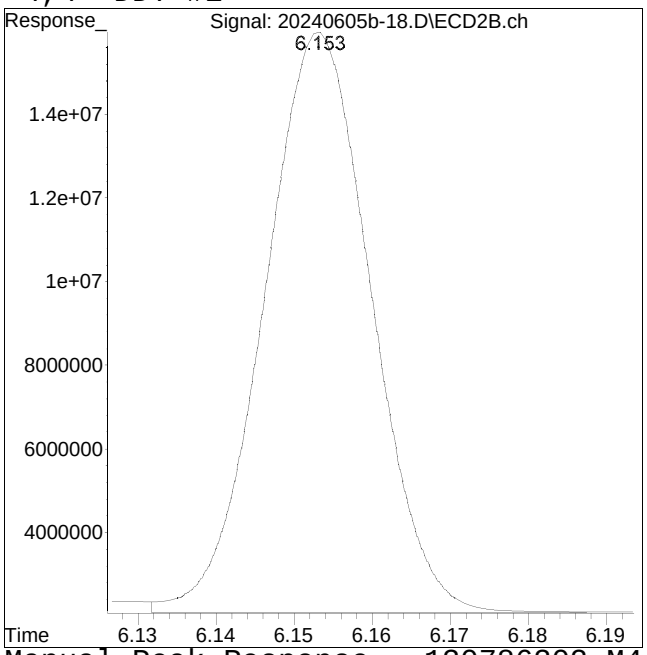
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-18.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:40 pm Instrument : PEST 20
Sample : WG1929733-3,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #59: 4,4'-DDT #2



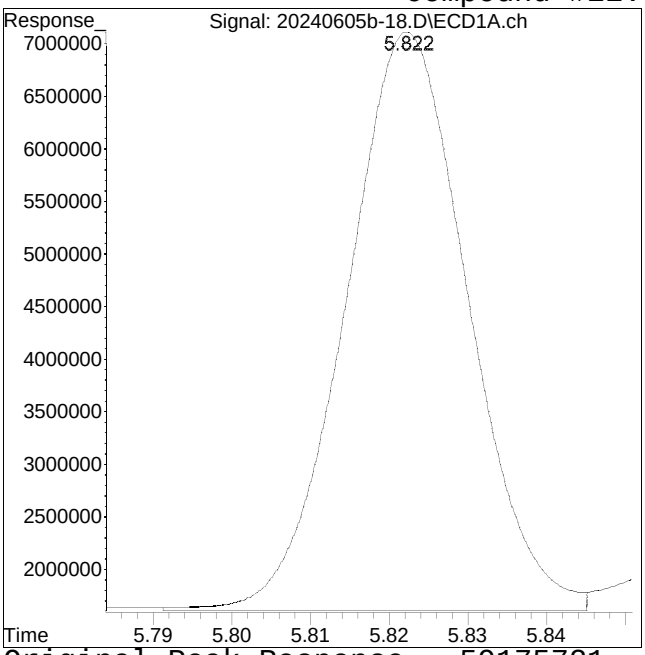


Original Peak Response = 131921835 Manual Peak Response = 130786302 M4
M4 = Poor automated baseline construction.

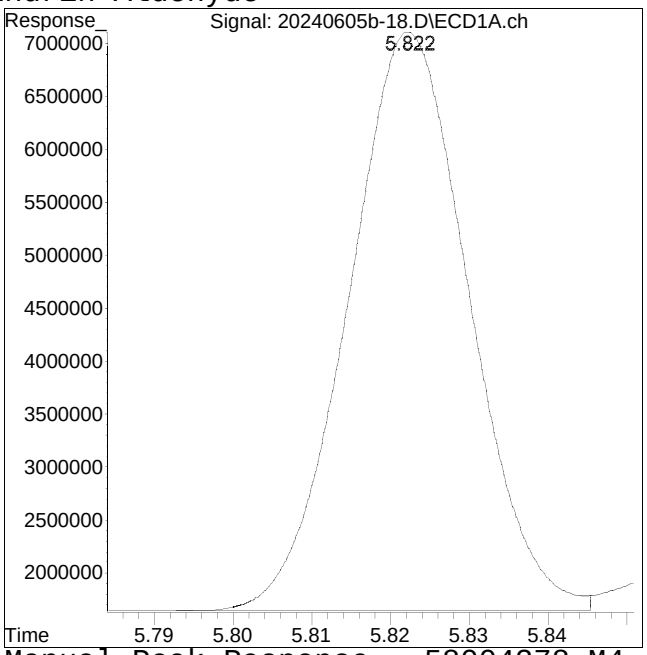
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-18.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:40 pm Instrument : PEST 20
Sample : WG1929733-3,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #22: Endrin Aldehyde



Original Peak Response = 59175721



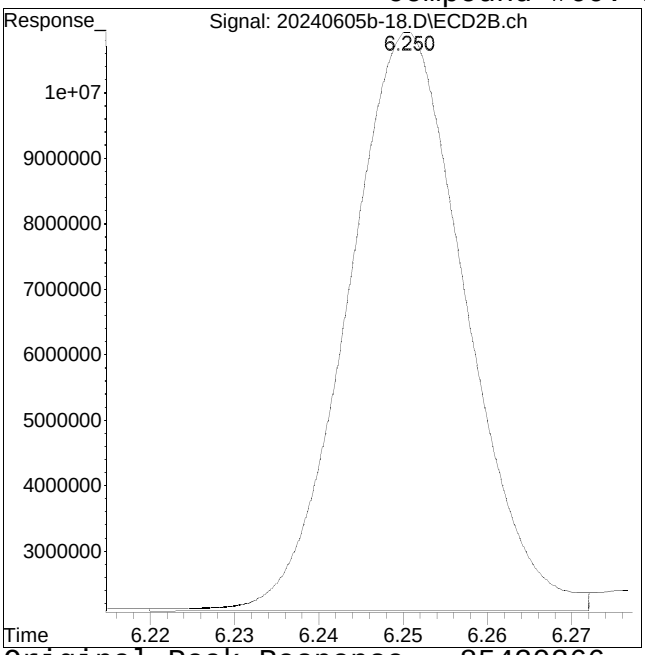
Manual Peak Response = 58004378 M4

M4 = Poor automated baseline construction.

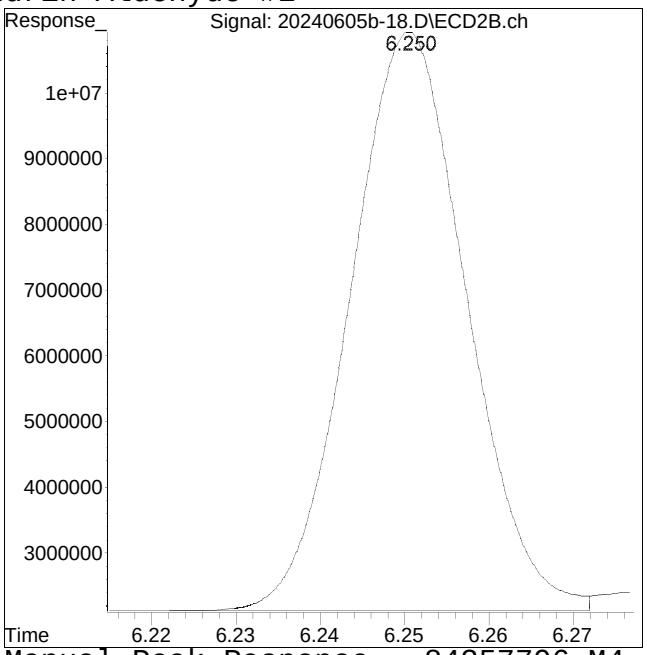
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-18.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:40 pm Instrument : PEST 20
Sample : WG1929733-3,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 85430266



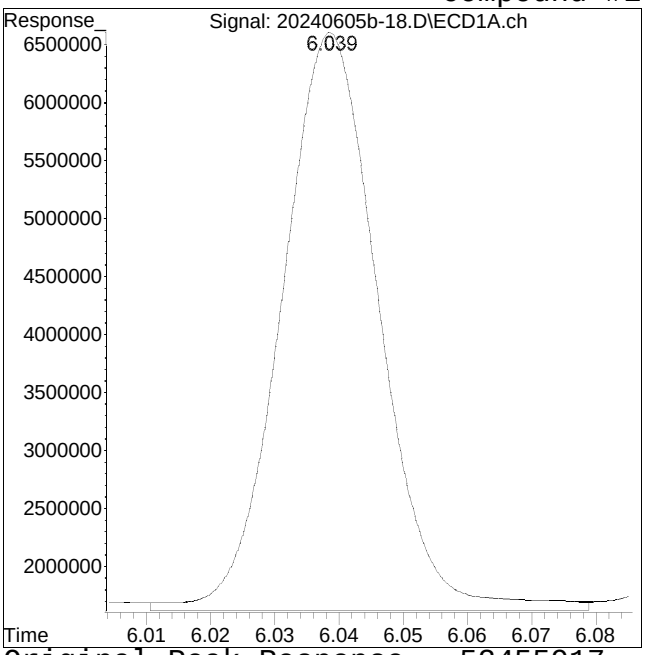
Manual Peak Response = 84357796 M4

M4 = Poor automated baseline construction.

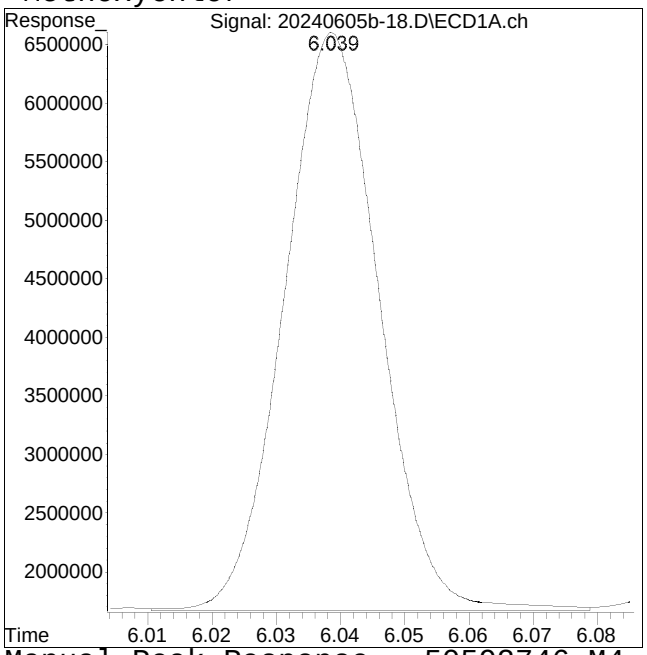
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-18.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:40 pm Instrument : PEST 20
Sample : WG1929733-3,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #23: Methoxychlor



Original Peak Response = 52455917



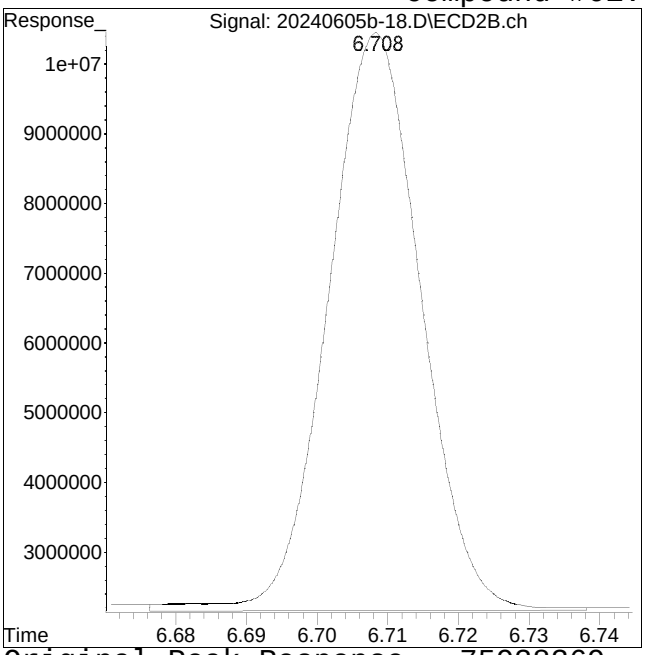
Manual Peak Response = 50592746 M4

M4 = Poor automated baseline construction.

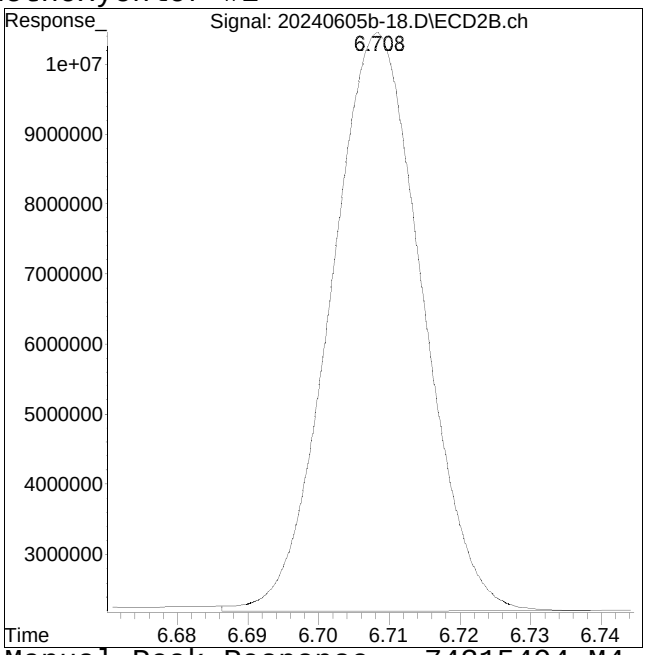
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-18.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:40 pm Instrument : PEST 20
Sample : WG1929733-3,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #61: Methoxychlor #2



Original Peak Response = 75938369



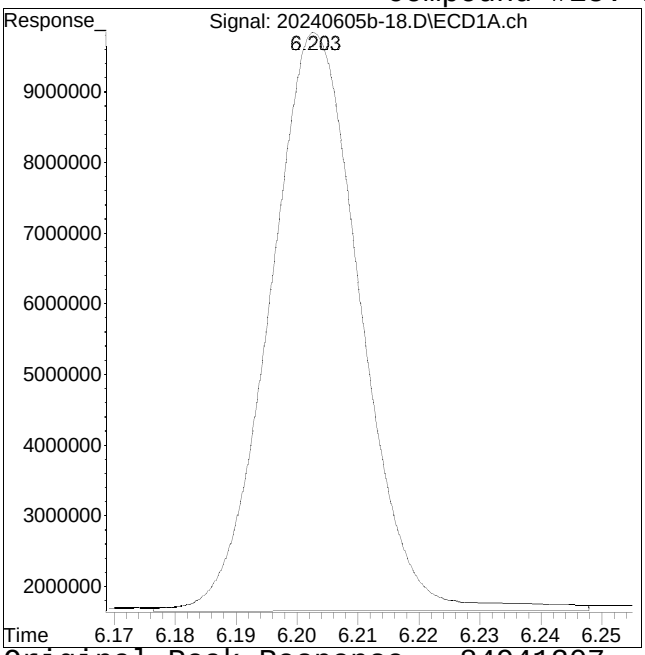
Manual Peak Response = 74315494 M4

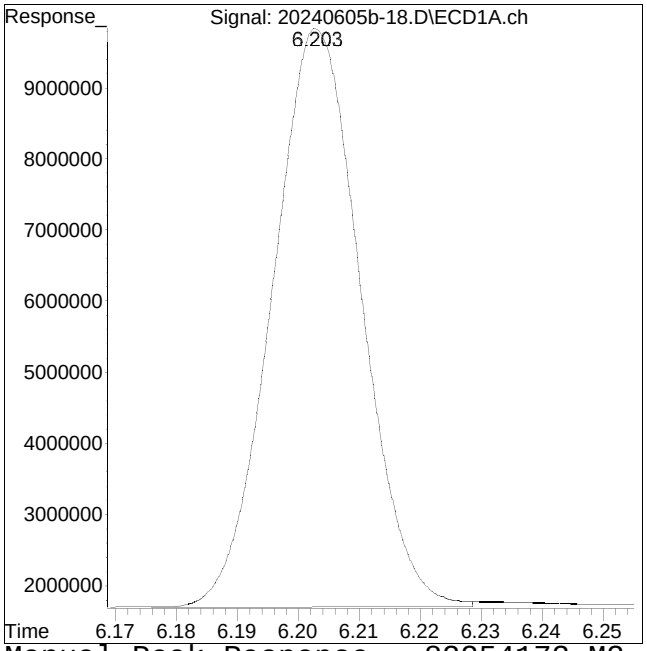
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-18.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:40 pm Instrument : PEST 20
Sample : WG1929733-3,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #25: Endosulfan Sulfate



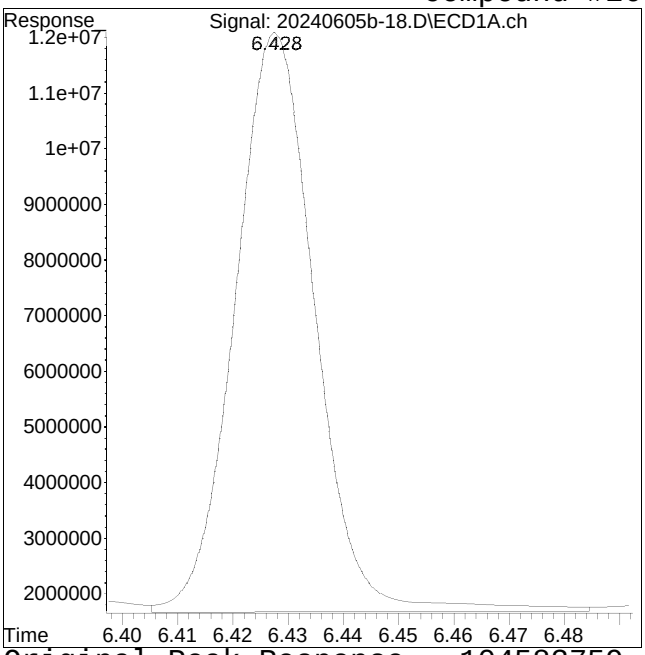


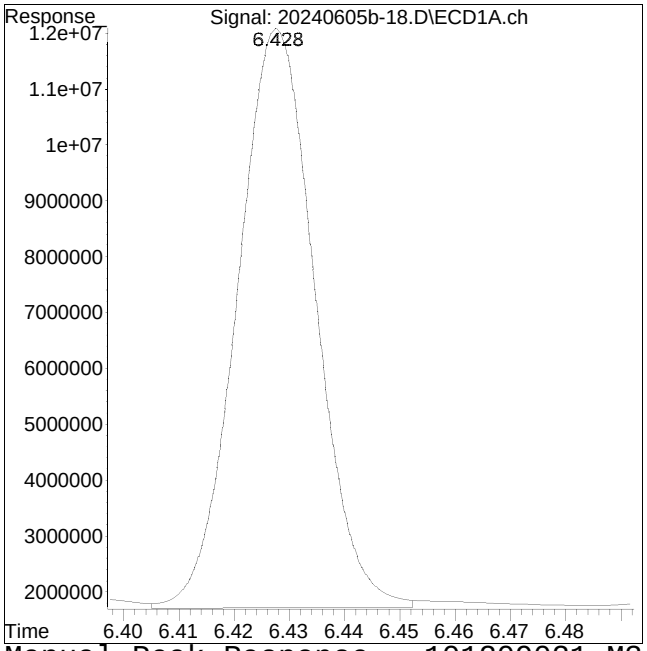
Original Peak Response = 84941207 Manual Peak Response = 82254173 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-18.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:40 pm Instrument : PEST 20
Sample : WG1929733-3,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #26: Endrin Ketone



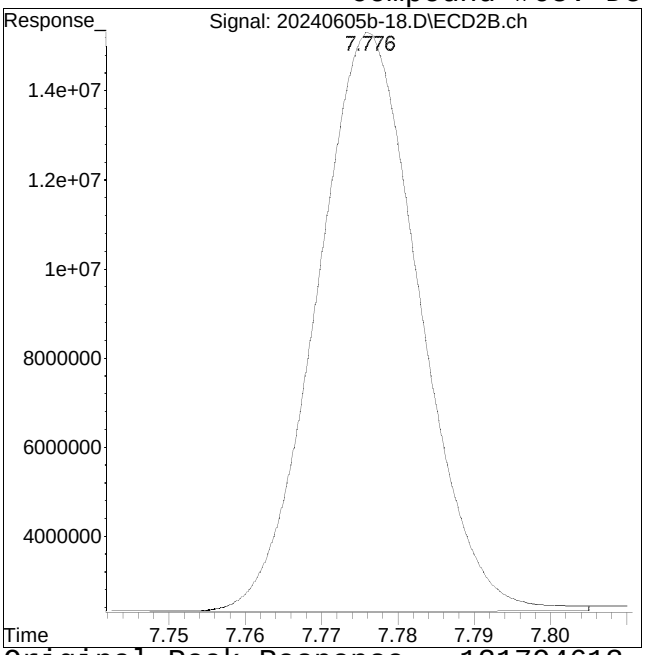


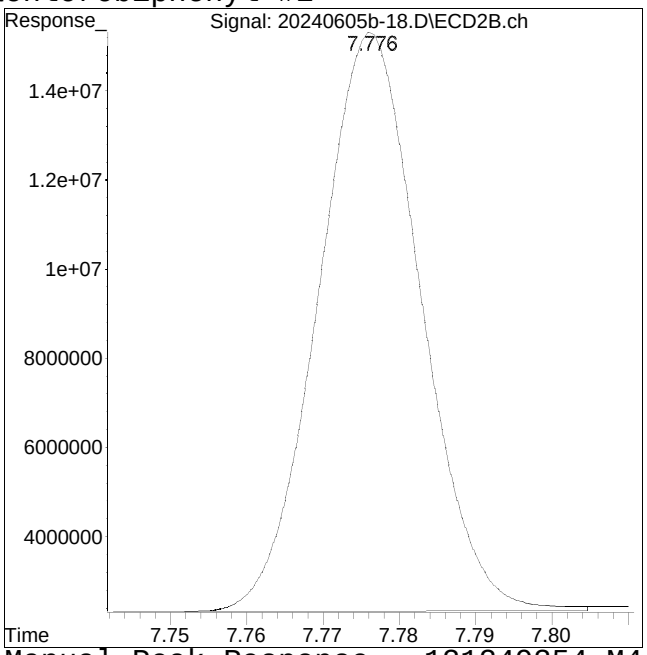
Original Peak Response = 104583759 Manual Peak Response = 101209021 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-18.D Operator : pest20:ejl
Date Inj'd : 6/5/2024 10:40 pm Instrument : PEST 20
Sample : WG1929733-3,42,, 733 734 Quant Date : 6/6/2024 5:50 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 121794613 Manual Peak Response = 121249354 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 23:17
Operator : pest20:jag
Sample : WG1929733-4,42,, ms
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:50:36 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240605b\20240605b-03.D
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.884	1.925	60983948	95598963	25.000M4	25.000M4
	Standard Area 1 : #1 = 60467879				Recovery = 100.85%		
	Standard Area 1 : #2 = 94939114				Recovery = 100.70%		
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.349	2.519	85692205	132.2E6	30.536M4	31.180M3
	Spiked Amount 50.000	Range 30 - 150			Recovery = 61.07%		62.36%
27) s	Decachlorobi	7.223	7.777	87963155	117.3E6	35.889	34.670M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 71.78%		69.34%
Target Compounds							
4)	alpha-BHC	2.735	3.001	119.3E6	182.7E6	35.693	34.896M4
5)	gamma-BHC (l	2.974	3.319	107.6E6	169.2E6	33.658M4	33.114M3
6)	beta-BHC	3.042	3.393	55710626	83358361	40.487M4	37.902M4
7)	delta-BHC	3.189	3.682	100.6E6	152.8E6	36.409M4	31.607M4
8)	Heptachlor	3.373	3.750	102.4E6	151.0E6	31.864M4	31.339M4
9)	Aldrin	3.646	4.092	98678283	148.1E6	31.220M4	32.688M4
12)	Heptachlor E	4.247	4.745	98484698	145.9E6	31.871M4	31.864M4
13)	gamma-Chlord	4.383	4.969	110.7E6	148.2E6	39.218M4	36.572M4
14)	alpha-Chlord	4.529	5.133	96287488	145.2E6	29.855M4	32.374M4
15)	4,4'-DDE	4.634	5.323	101.6E6	143.0E6	34.310M4	32.715M4
16)	Endosulfan I	4.675	5.191	93161678	139.9E6	31.717M4	33.332M4
17)	Dieldrin	4.949	5.475	107.0E6	156.4E6	35.742M4	36.435M3
18)	Endrin	5.193	5.766	100.4E6	148.3E6	33.529M4	34.064M4
19)	4,4'-DDD	5.294	5.882	85983754	127.8E6	40.777M4	36.251M4
20)	Endosulfan I	5.422	5.960	89614181	135.3E6	35.173M4	34.200M4
21)	4,4'-DDT	5.572	6.153	85134131	130.1E6	37.307M3	33.847M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 23:17
Operator : pest20:jag
Sample : WG1929733-4,42,, ms
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:50:36 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240605b\20240605b-03.D
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) Endrin Aldeh	5.822	6.251	63119701	94455783	32.861M4	30.977M4
23) Methoxychlor	6.039	6.709	50043882	74172760	42.740M4	33.245M4
25) Endosulfan S	6.203	6.476	81570979	121.5E6	38.976M4	32.563M3
26) Endrin Keton	6.427	6.888	103.2E6	154.2E6	43.711M3	35.867M4
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

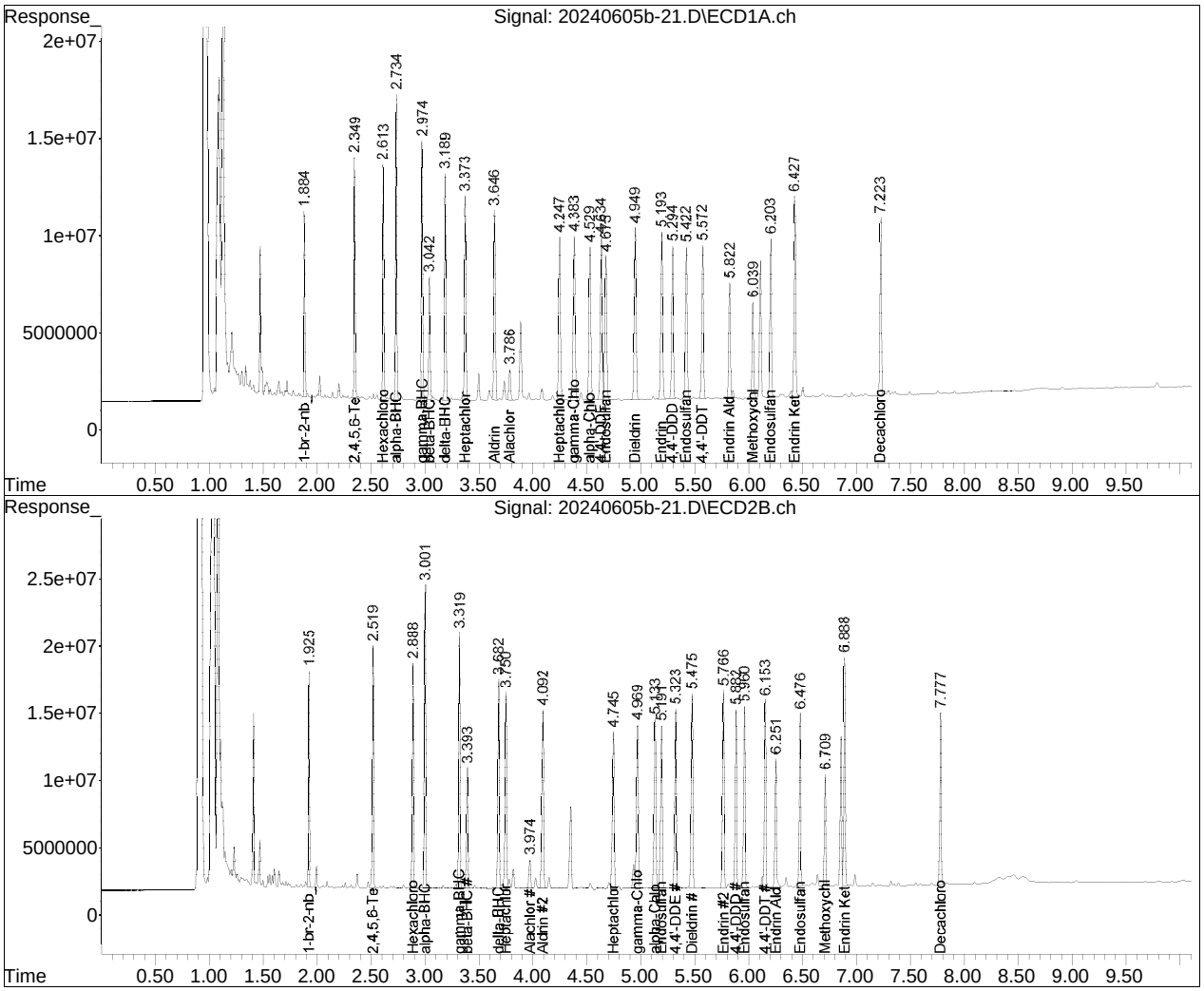
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only0\2024\240605b\20240605b-03.D•

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 23:17
Operator : pest20:jag
Sample : WG1929733-4,42,, ms
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:50:36 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

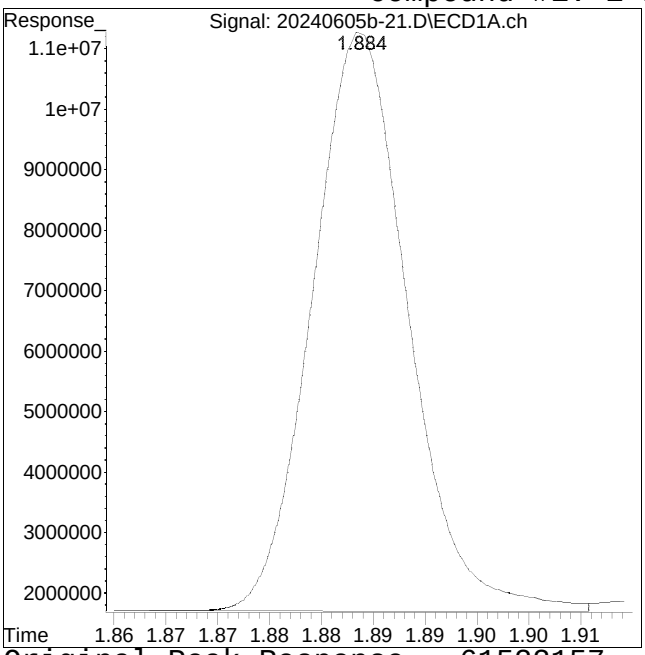
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

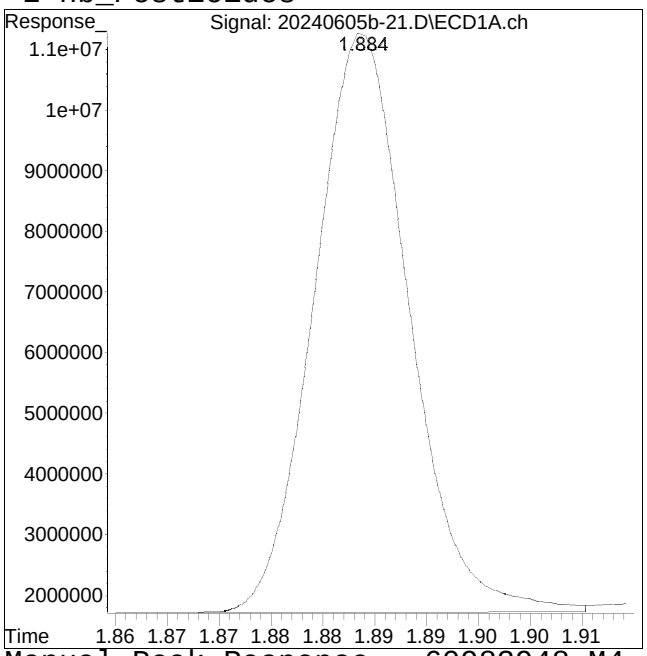


Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #1: 1-br-2-nb_Pesticides



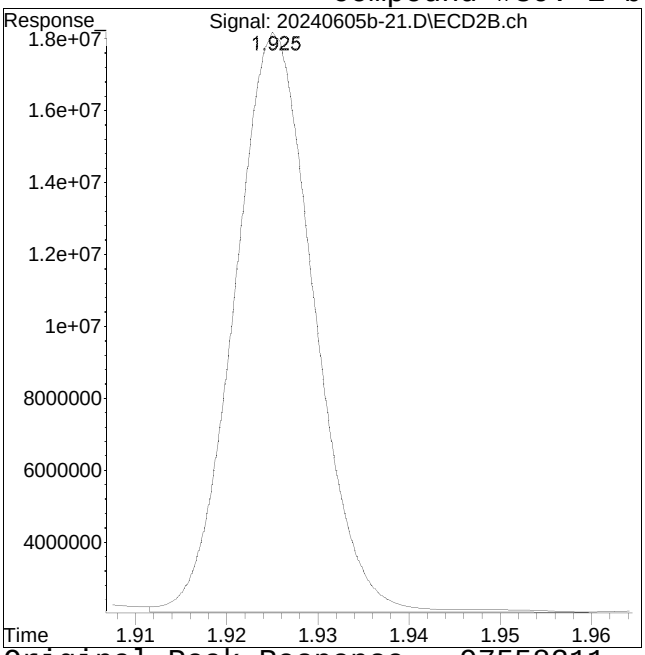


Original Peak Response = 61522157 Manual Peak Response = 60983948 M4
M4 = Poor automated baseline construction.

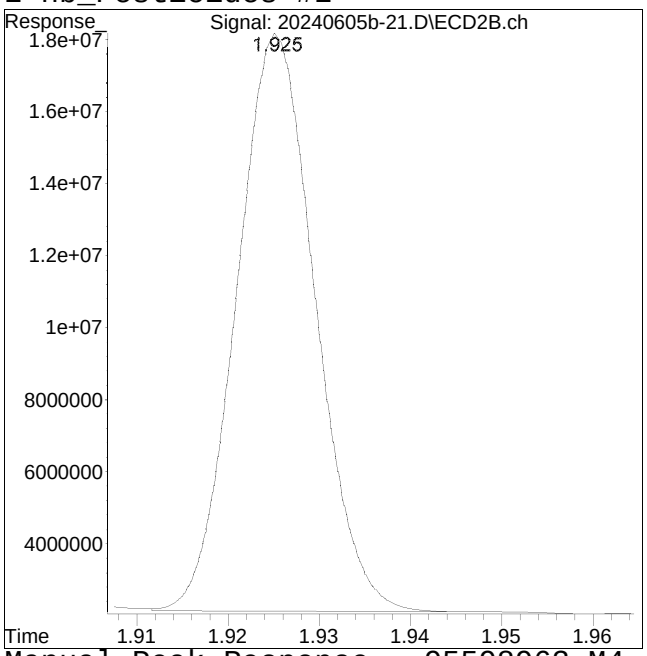
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 97558211



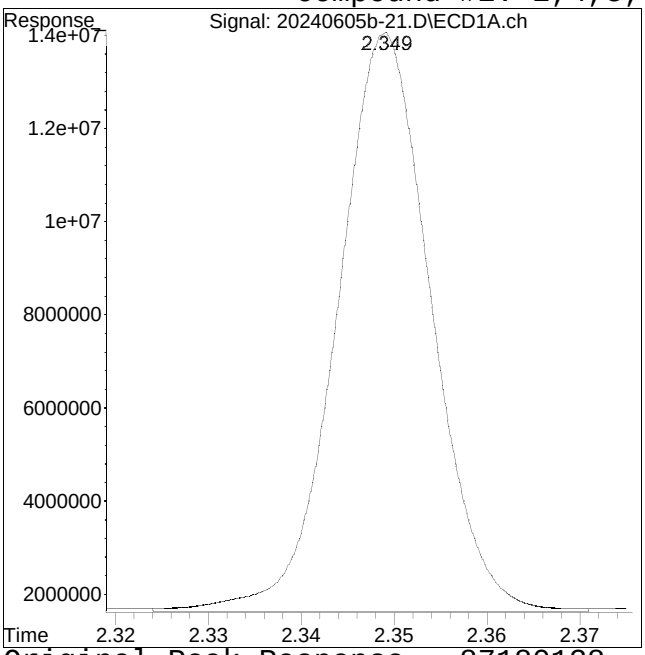
Manual Peak Response = 95598963 M4

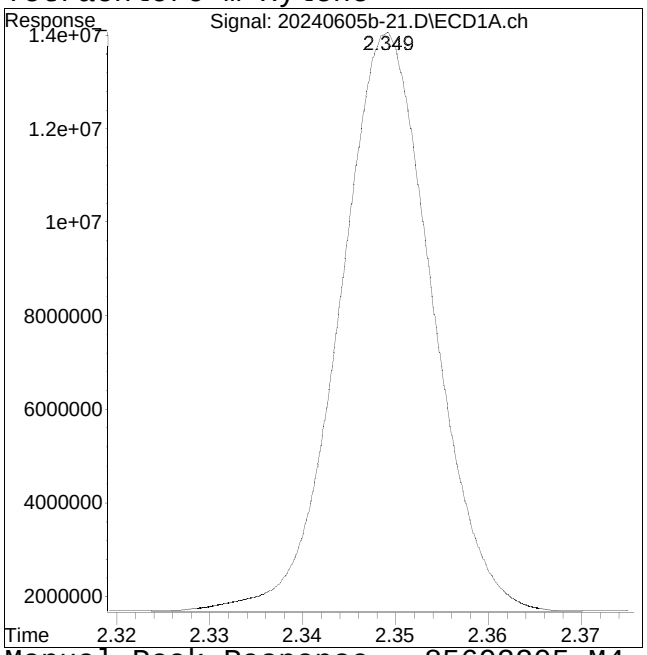
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



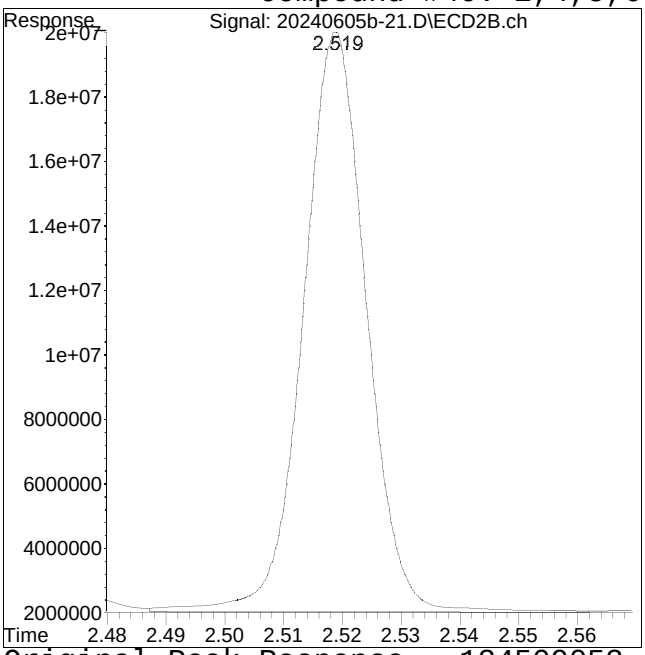


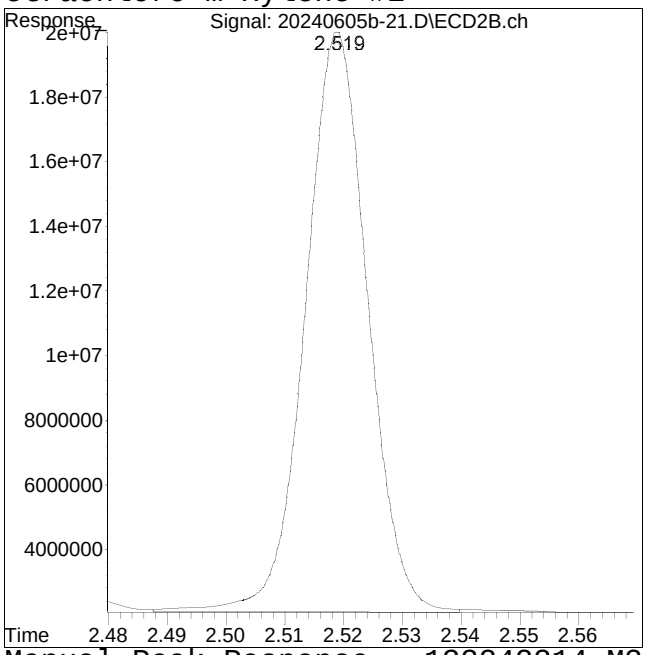
Original Peak Response = 87180138 Manual Peak Response = 85692205 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



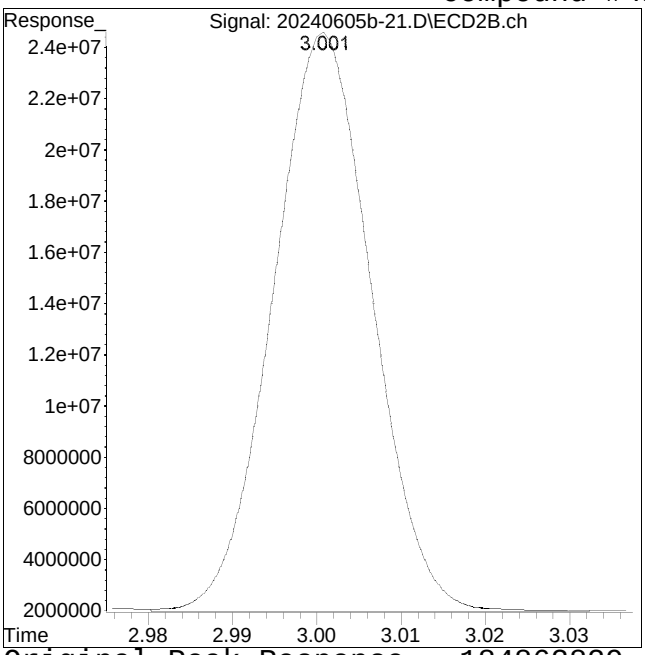


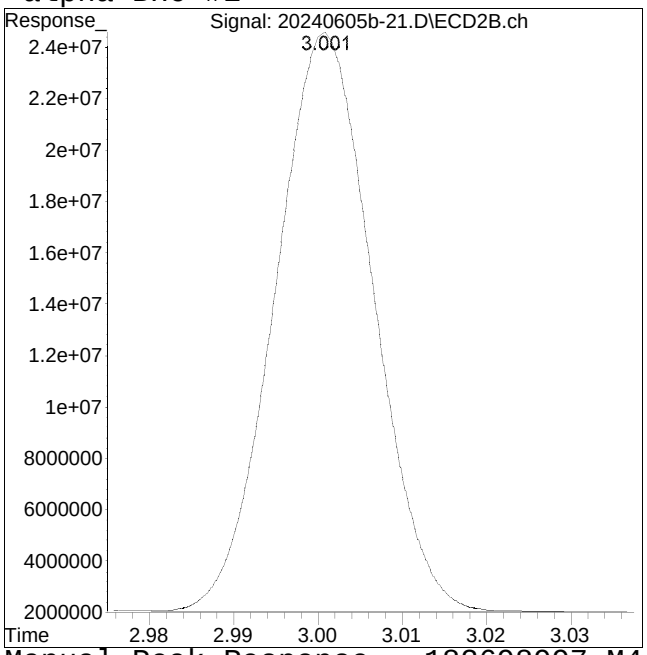
Original Peak Response = 134509053 Manual Peak Response = 132242314 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #42: alpha-BHC #2



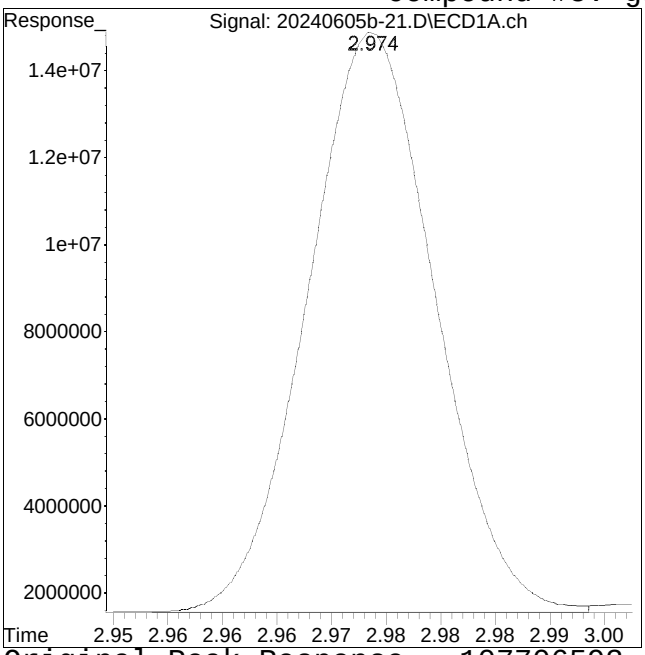


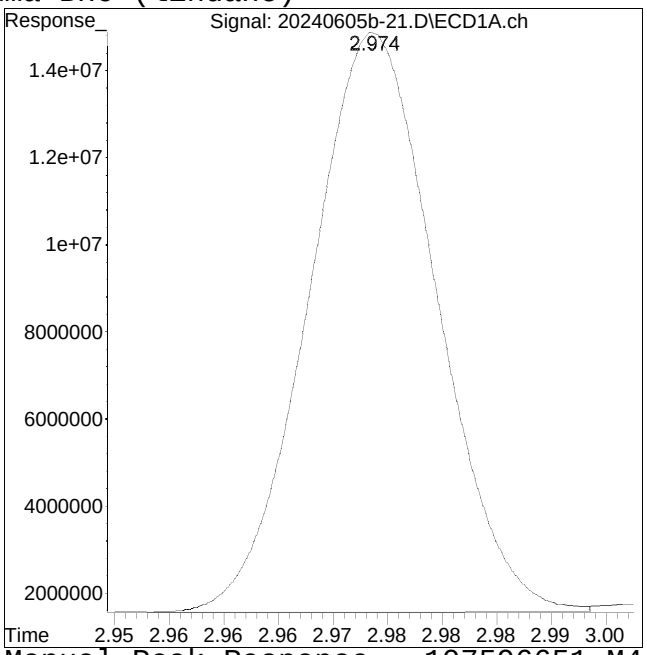
Original Peak Response = 184862829 Manual Peak Response = 182698997 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #5: gamma-BHC (lindane)



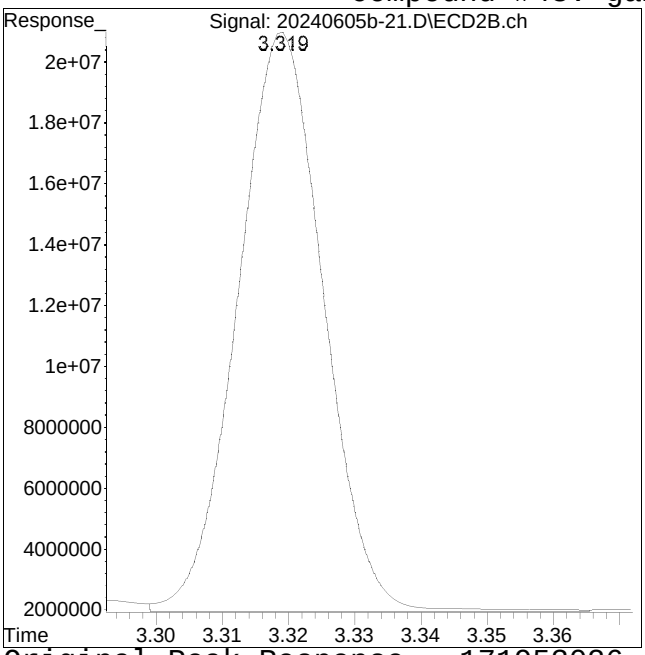


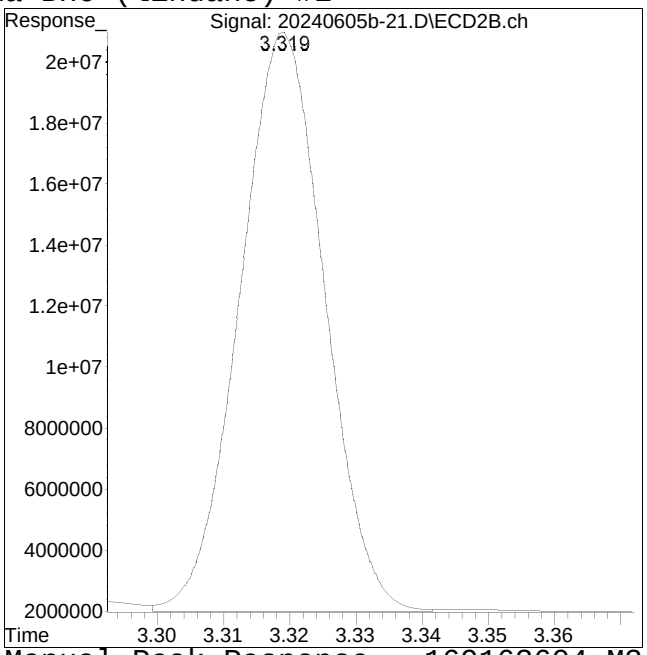
Original Peak Response = 107706593 Manual Peak Response = 107596651 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #43: gamma-BHC (lindane) #2



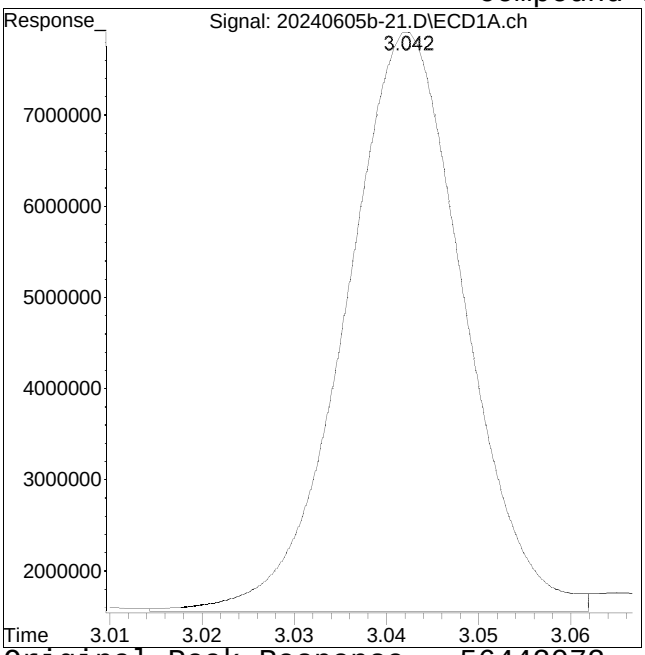


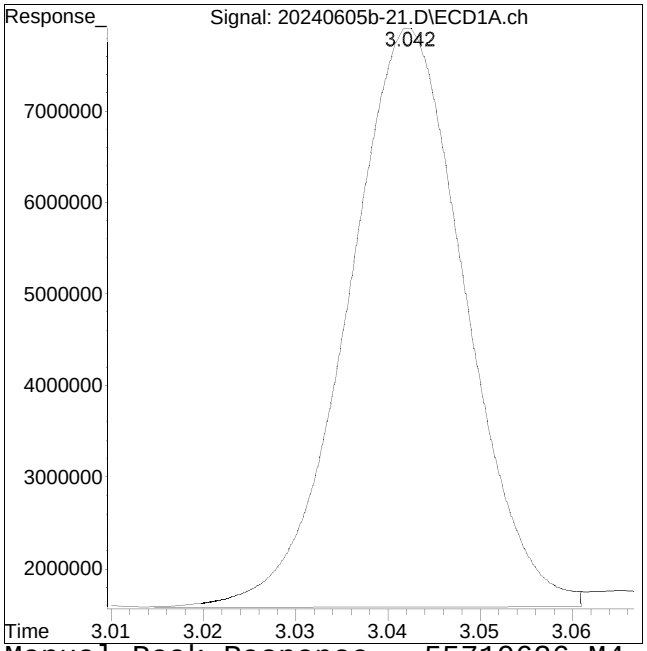
Original Peak Response = 171953026 Manual Peak Response = 169163604 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #6: beta-BHC



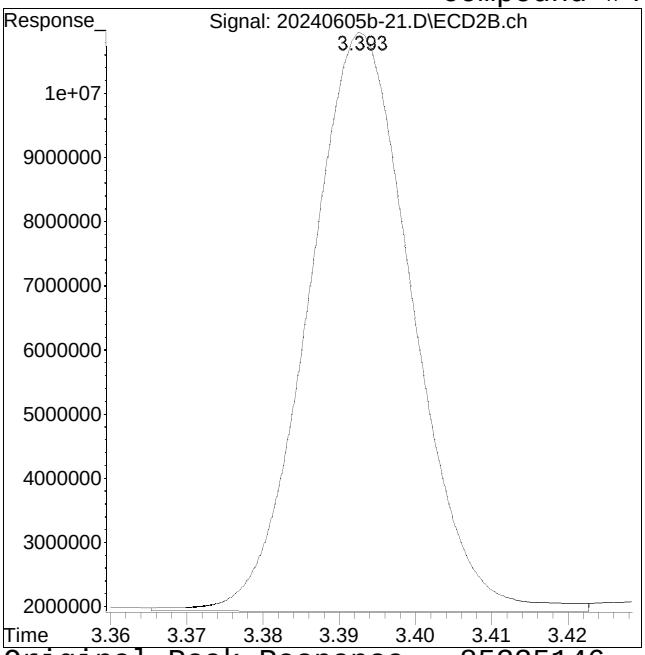


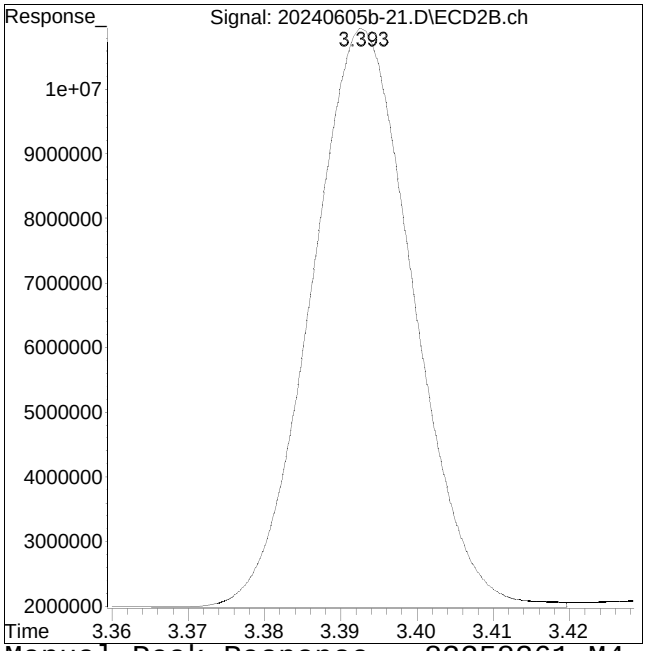
Original Peak Response = 56442072 Manual Peak Response = 55710626 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #44: beta-BHC #2



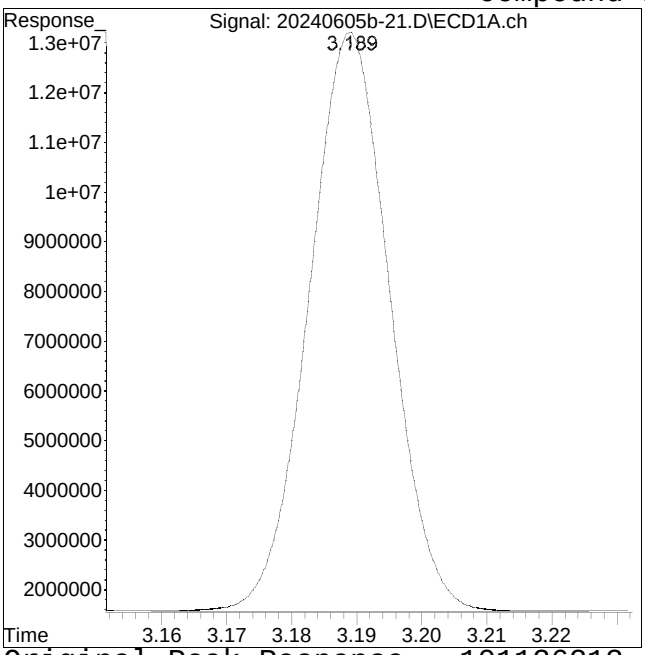


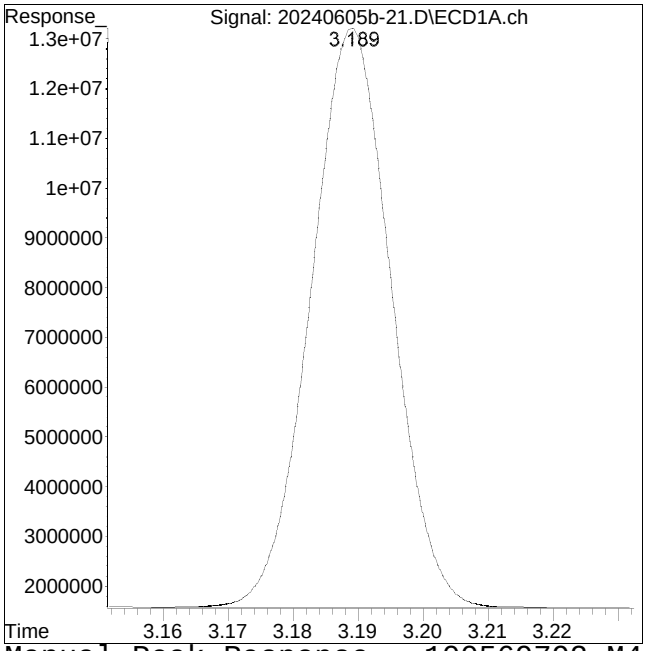
Original Peak Response = 85335146 Manual Peak Response = 83358361 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #7: delta-BHC



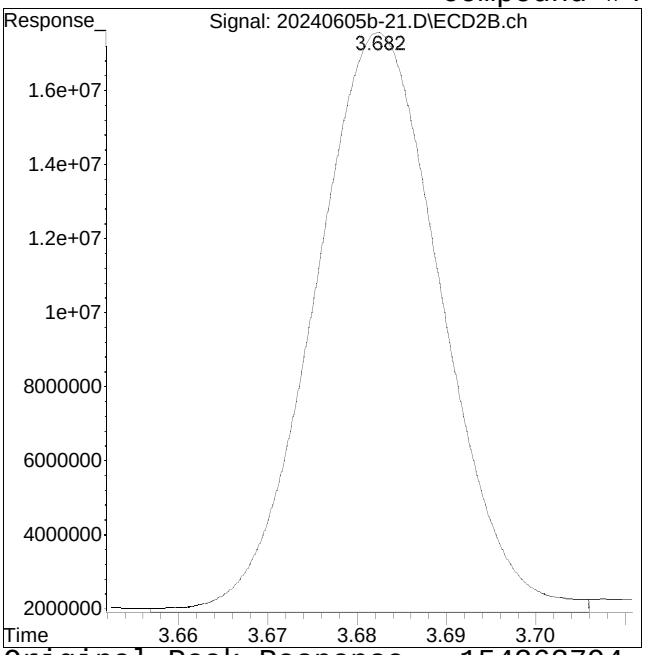


Original Peak Response = 101126213 Manual Peak Response = 100569792 M4
M4 = Poor automated baseline construction.

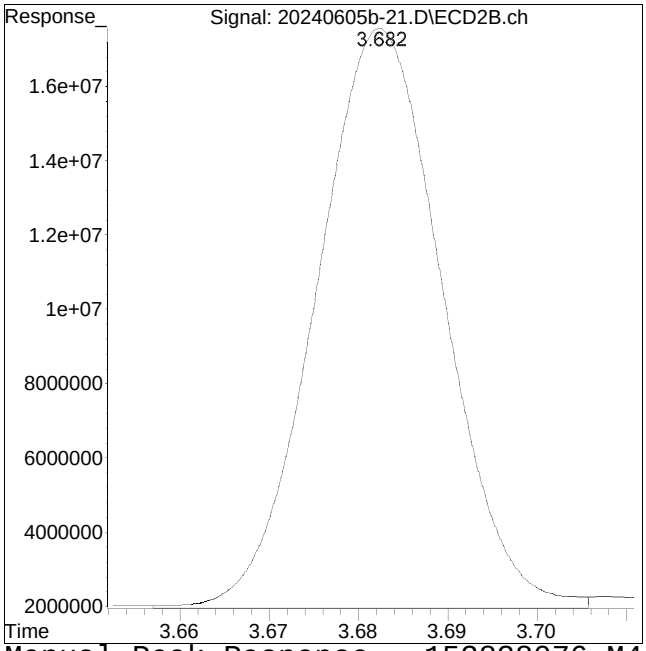
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #45: delta-BHC #2



Original Peak Response = 154363794



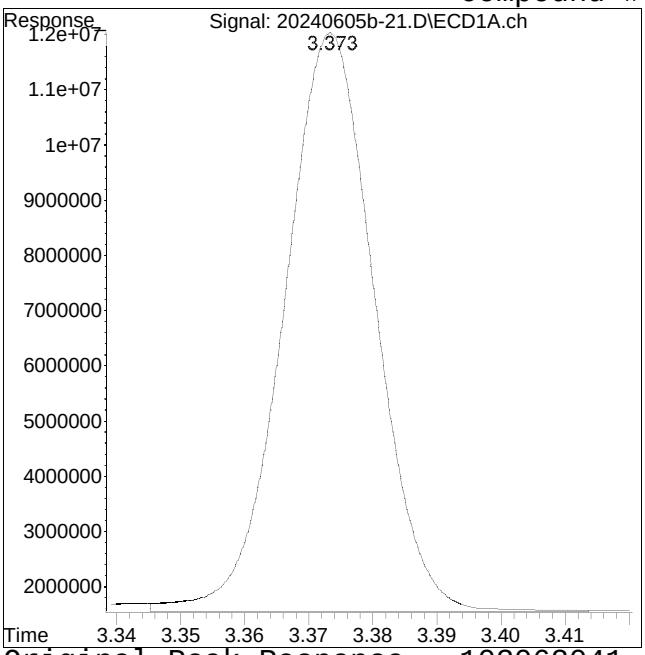
Manual Peak Response = 152838076 M4

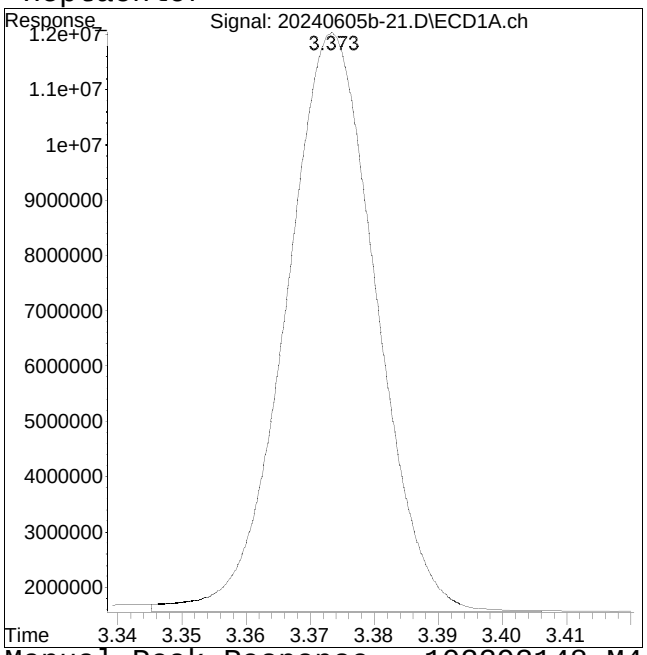
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #8: Heptachlor



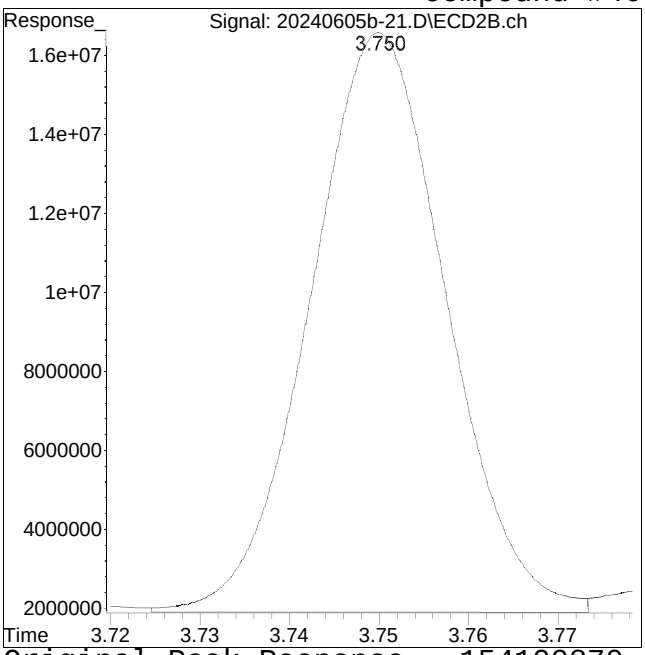


Original Peak Response = 103062041 Manual Peak Response = 102393148 M4
M4 = Poor automated baseline construction.

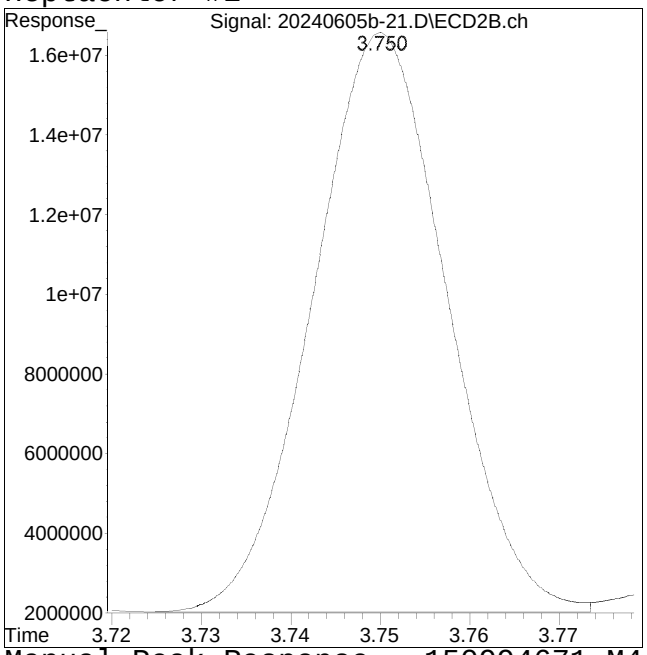
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #46: Heptachlor #2



Original Peak Response = 154100870



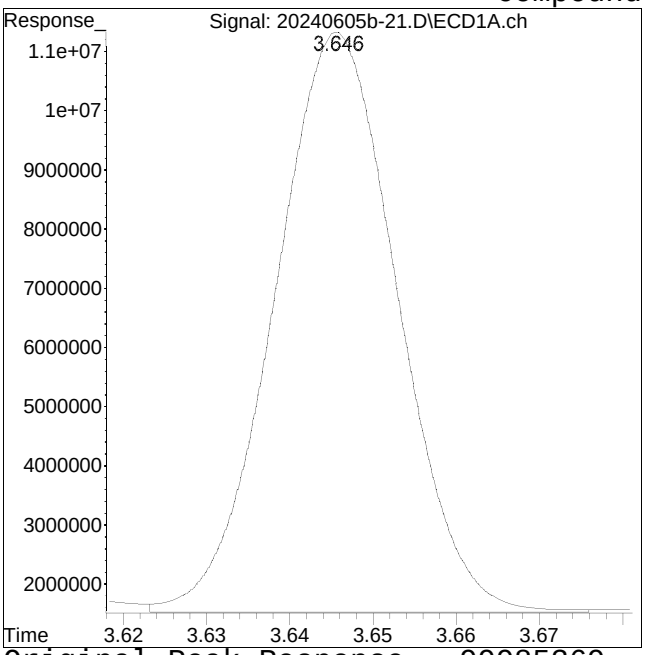
Manual Peak Response = 150994671 M4

M4 = Poor automated baseline construction.

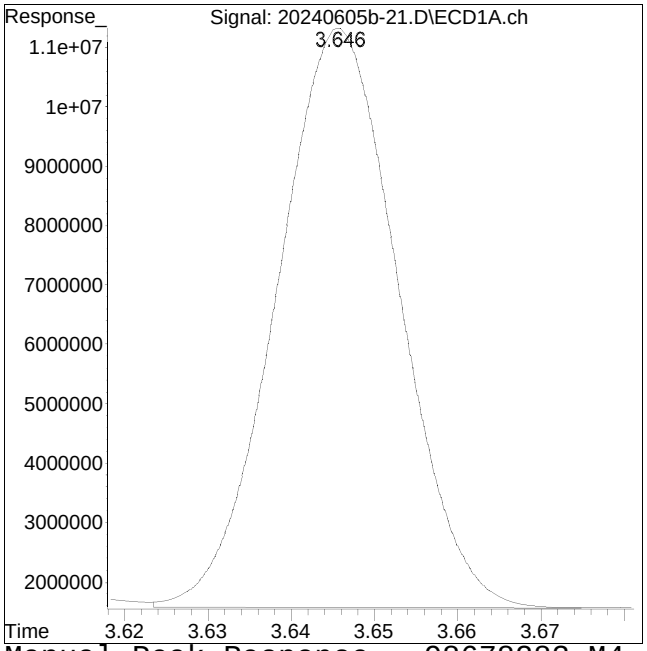
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #9: Aldrin



Original Peak Response = 99985369



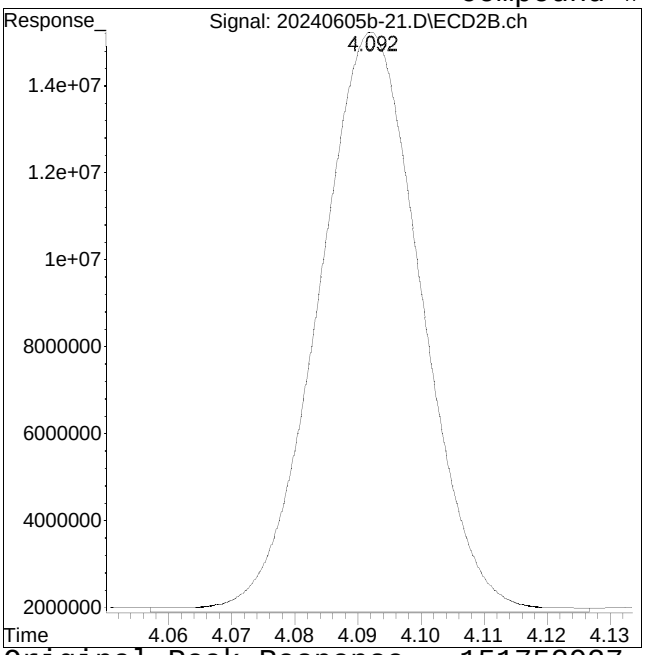
Manual Peak Response = 98678283 M4

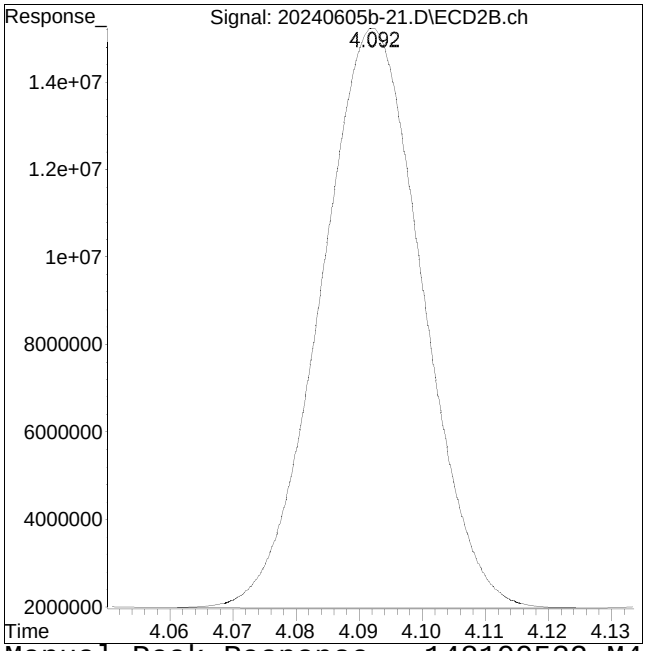
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #47: Aldrin #2



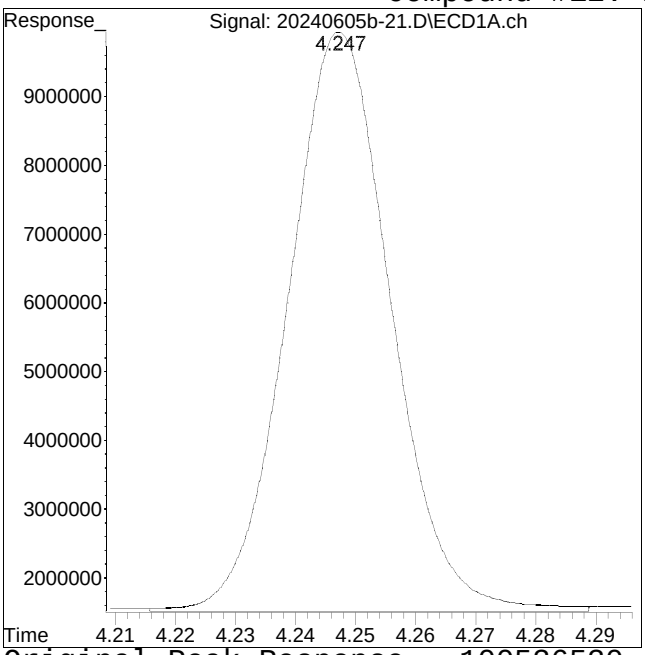


Original Peak Response = 151752927 Manual Peak Response = 148100532 M4
M4 = Poor automated baseline construction.

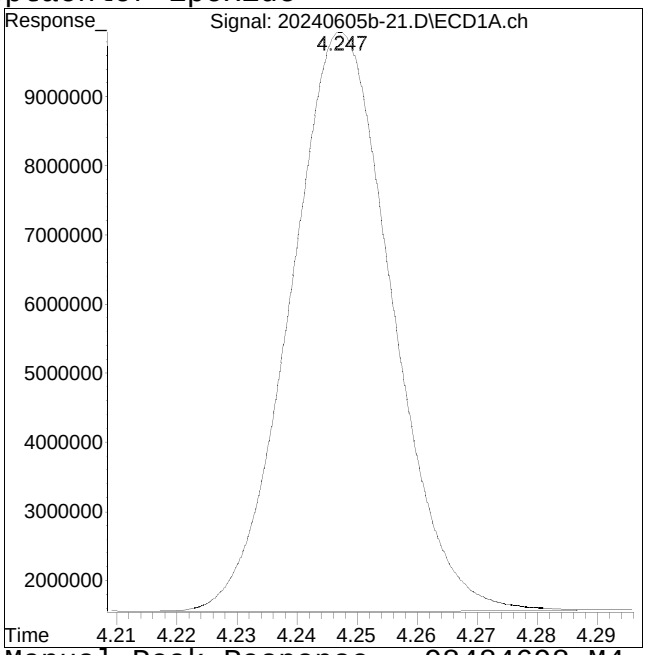
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #12: Heptachlor Epoxide



Original Peak Response = 100536530



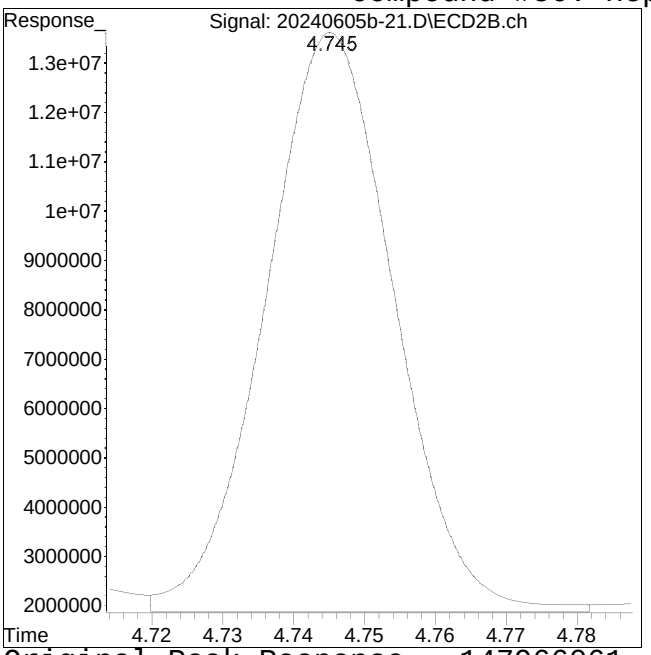
Manual Peak Response = 98484698 M4

M4 = Poor automated baseline construction.

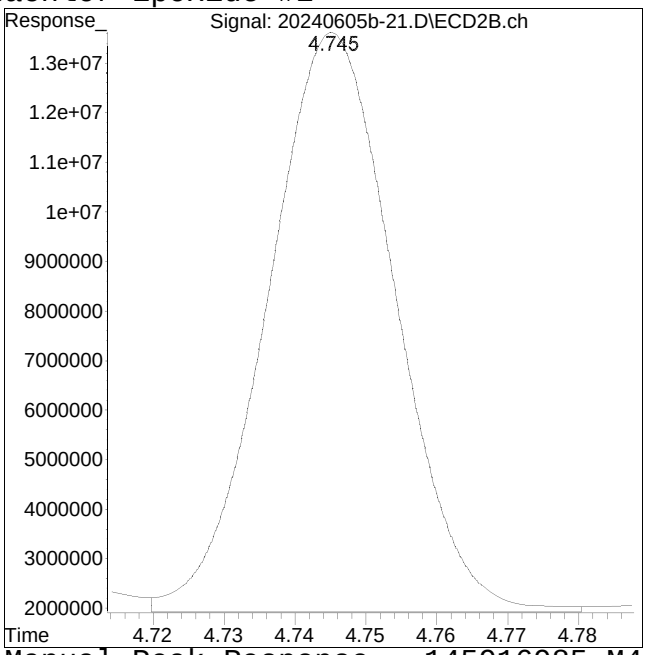
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 147966061



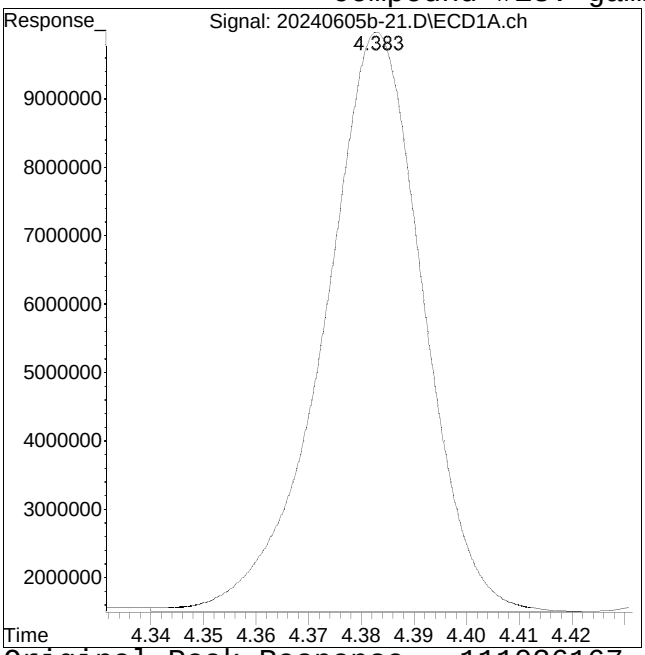
Manual Peak Response = 145916985 M4

M4 = Poor automated baseline construction.

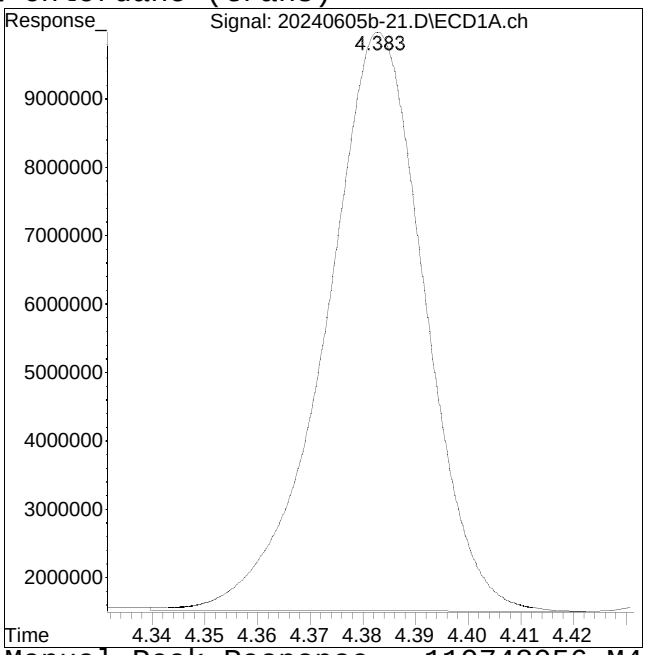
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 111036167



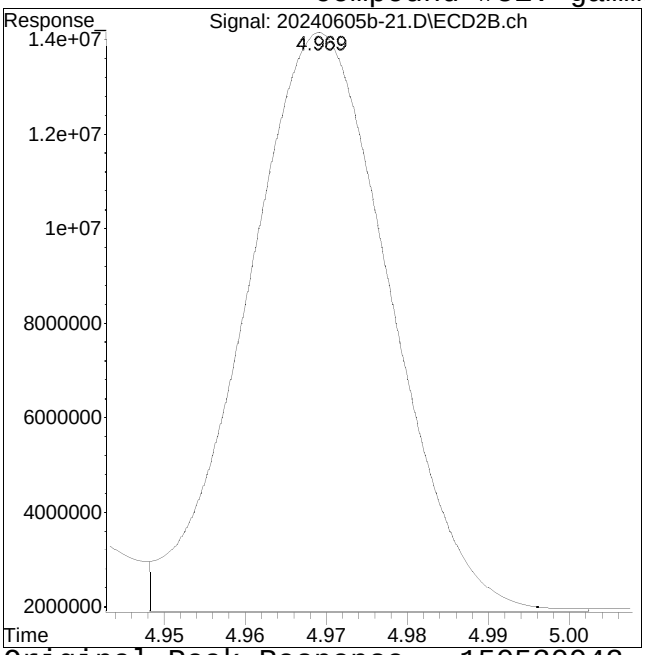
Manual Peak Response = 110748056 M4

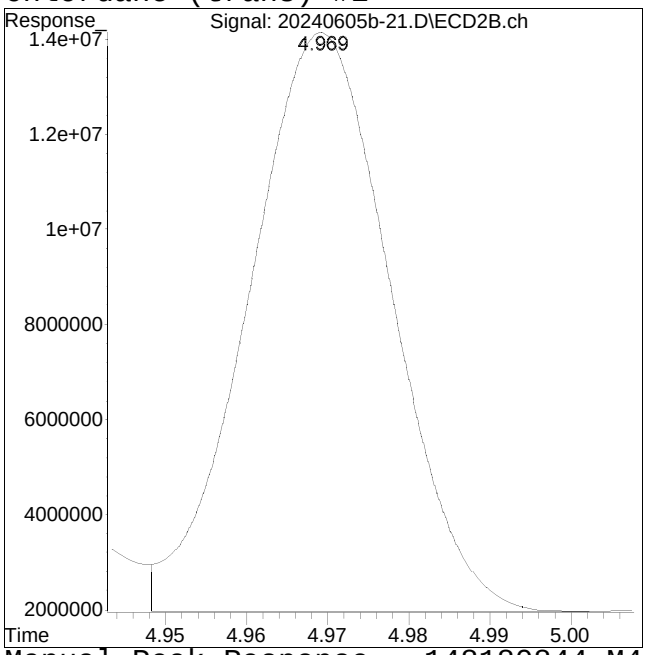
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #51: gamma-Chlordane (trans) #2



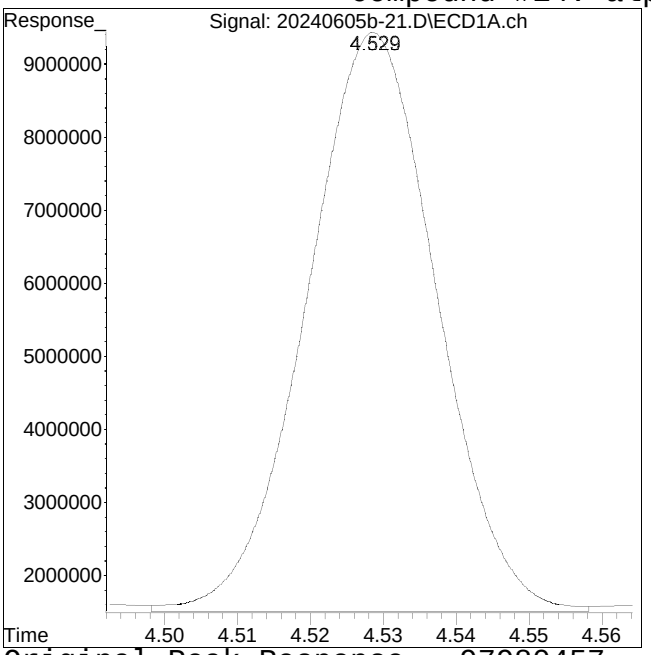


Original Peak Response = 150530942 Manual Peak Response = 148180844 M4
M4 = Poor automated baseline construction.

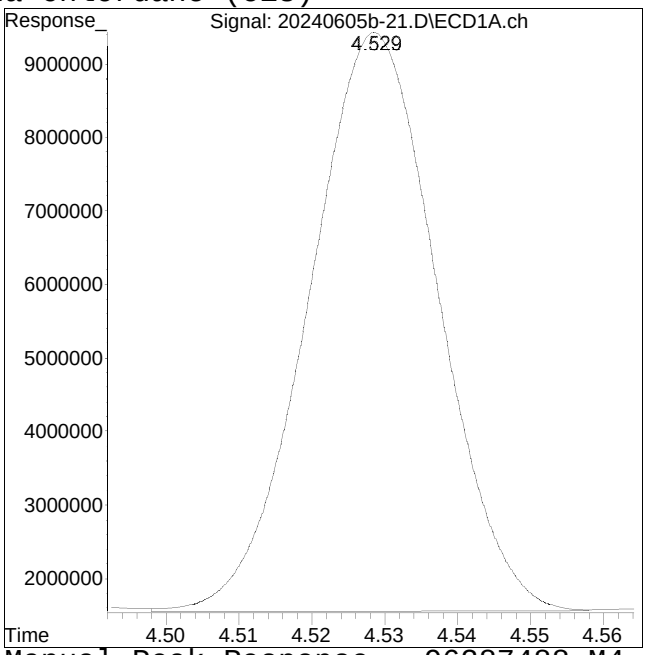
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 97980457



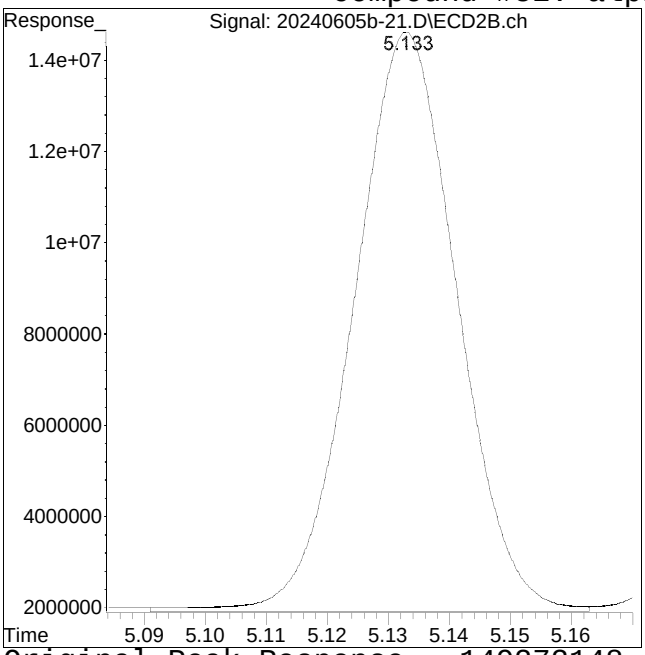
Manual Peak Response = 96287488 M4

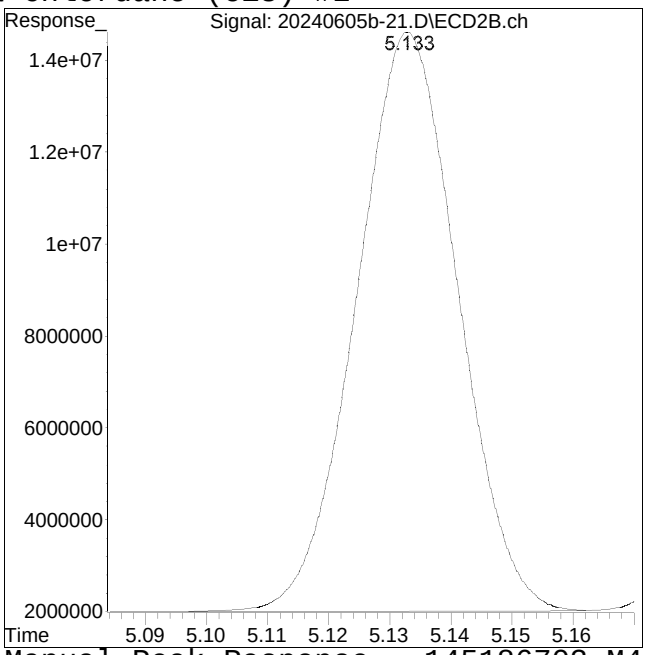
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #52: alpha-Chlordane (cis) #2



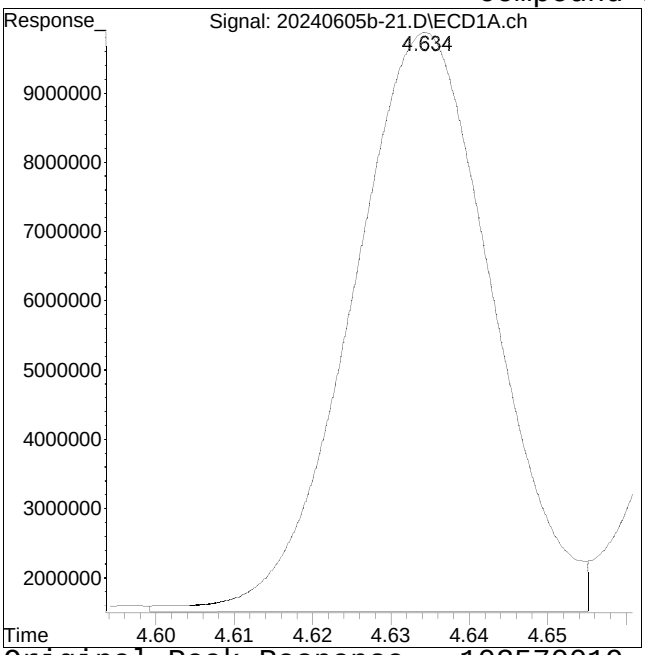


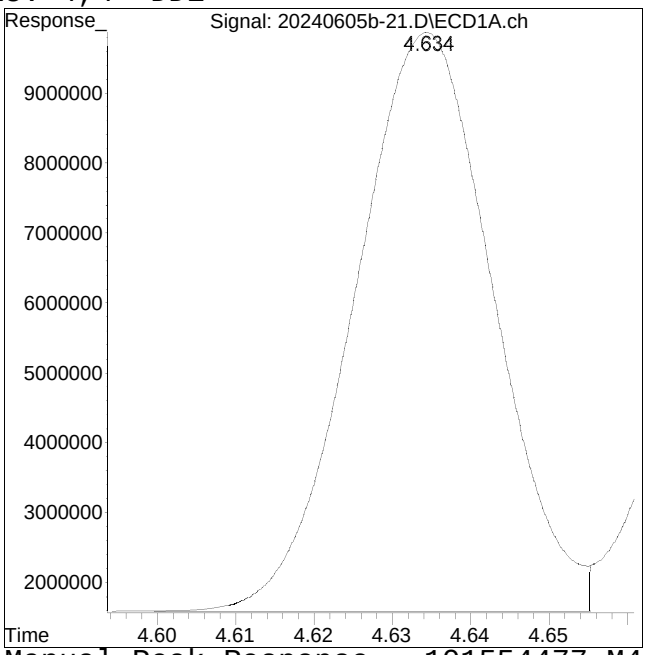
Original Peak Response = 149272148 Manual Peak Response = 145186703 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #15: 4,4'-DDE



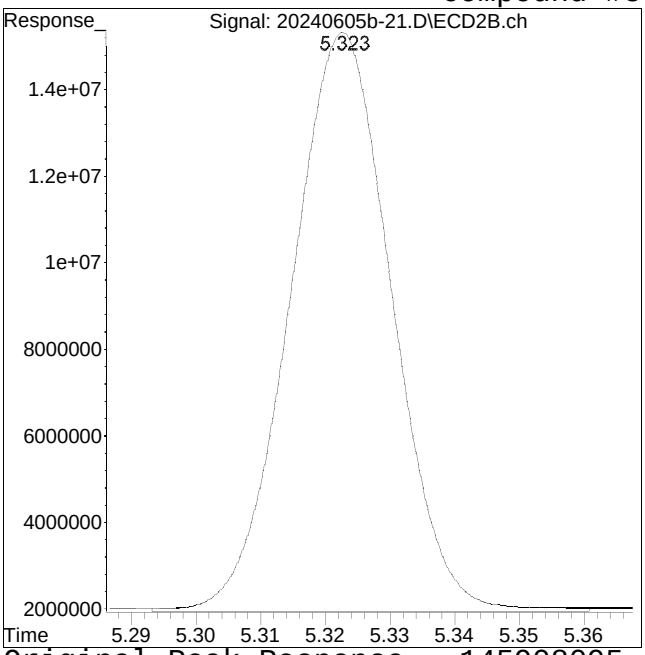


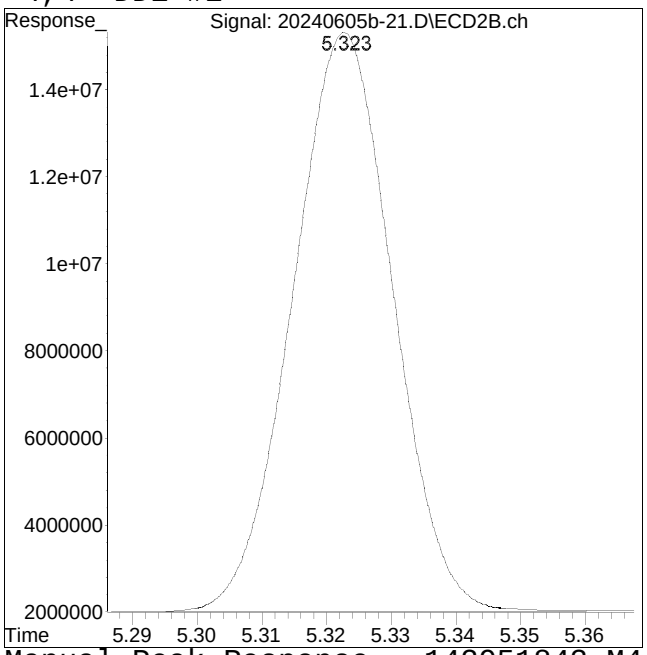
Original Peak Response = 103570019 Manual Peak Response = 101554477 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #53: 4,4'-DDE #2





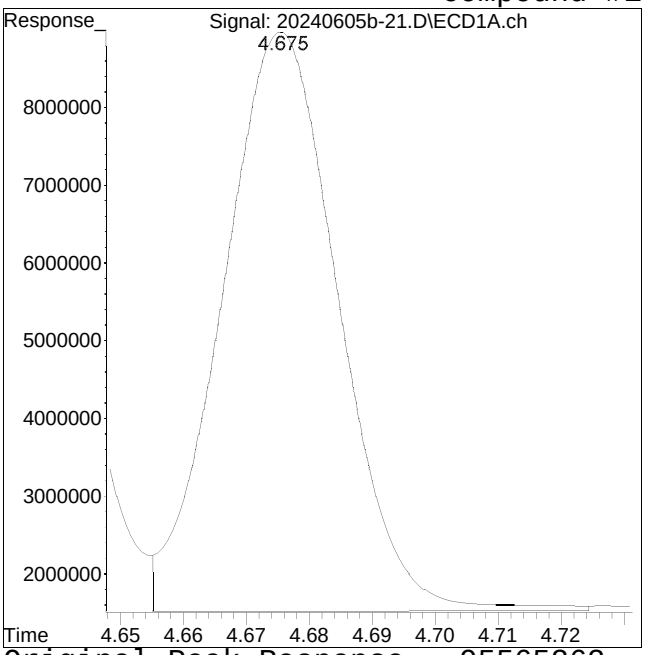
Original Peak Response = 145908095 Manual Peak Response = 142951843 M4
M4 = Poor automated baseline construction.

Manual Integration Report

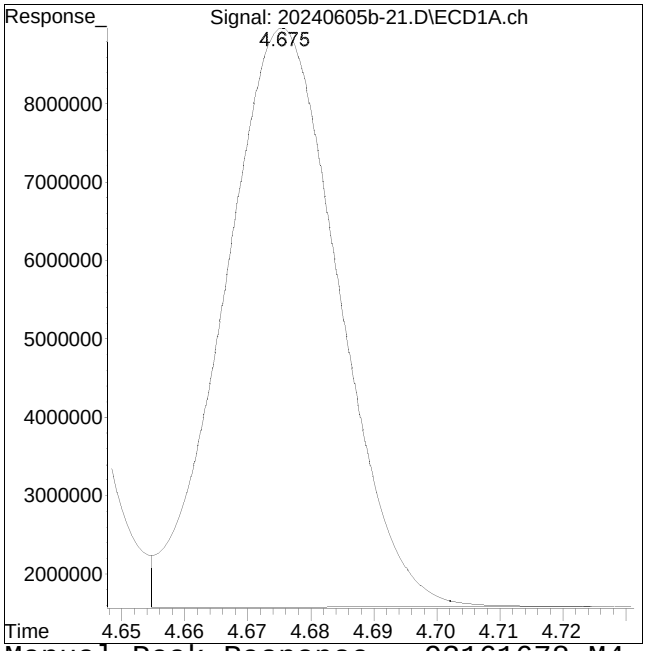
Data Path : I:\PEST\Pest20\2024\240605Q
Data File : 20240605b-21.D
Date Inj'd : 6/5/2024 23:17
Sample : WG1929733-4,42,, ms

Method : pest20_2024_05_14_ugL_IC
Operator : pest20:jag
Instrument : PEST 20
Quant Date : 6/6/2024 5:50 am

Compound #16: Endosulfan I



Original Peak Response = 95565262



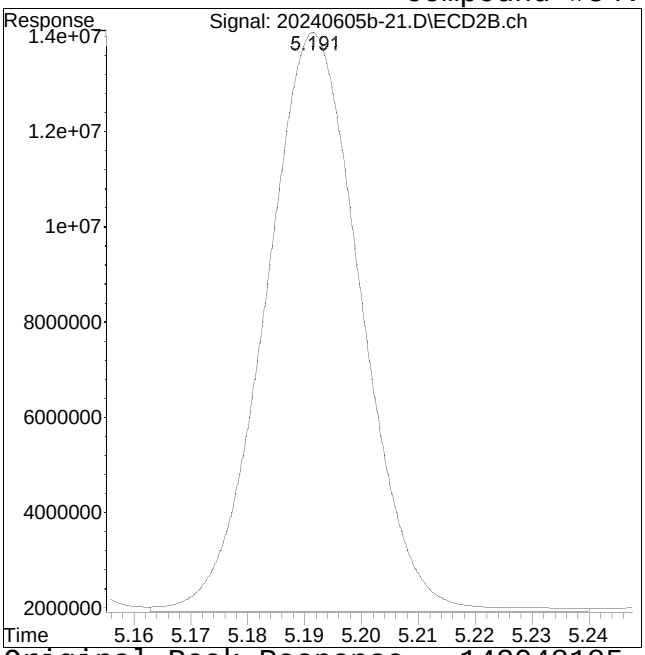
Manual Peak Response = 93161678 M4

M4 = Poor automated baseline construction.

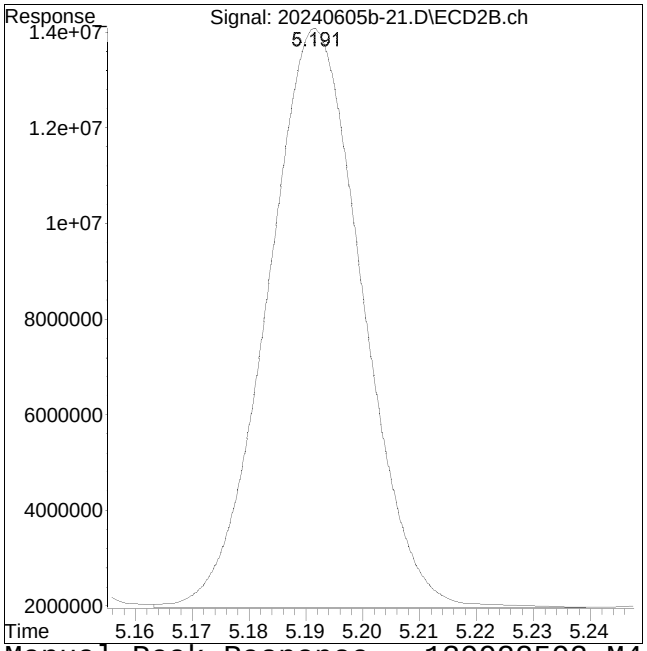
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #54: Endosulfan I #2



Original Peak Response = 142048185



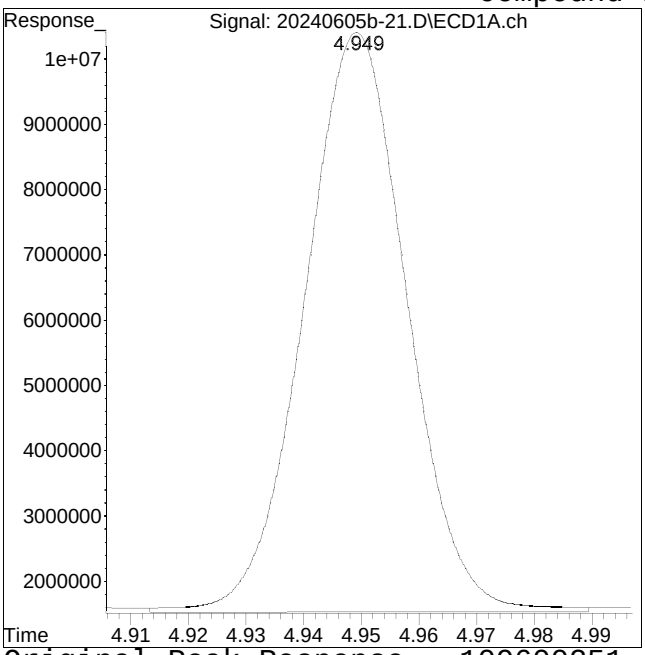
Manual Peak Response = 139922592 M4

M4 = Poor automated baseline construction.

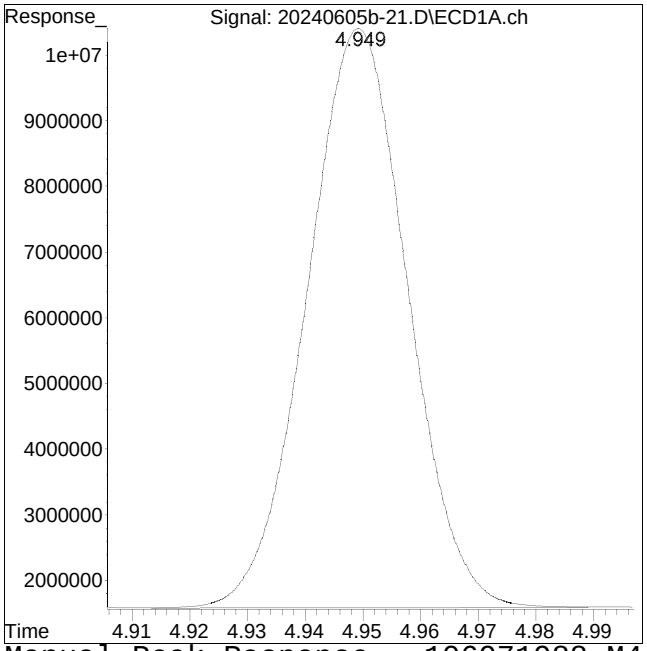
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #17: Dieldrin



Original Peak Response = 109600251



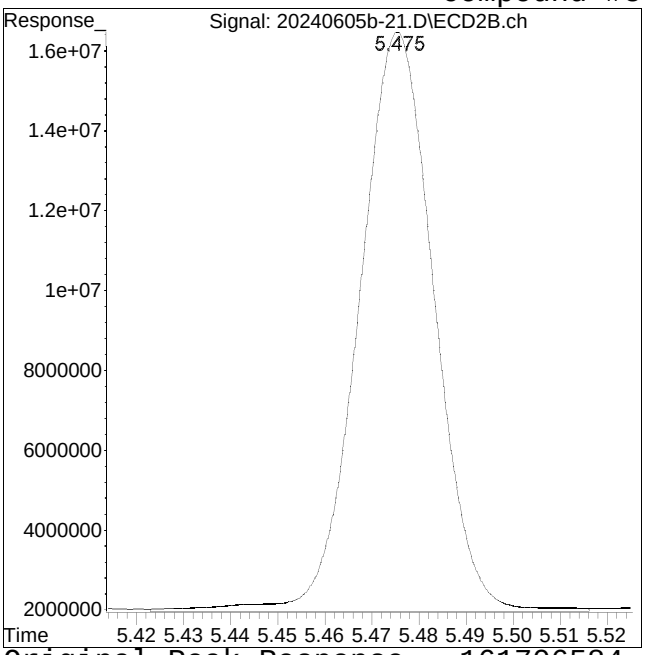
Manual Peak Response = 106971988 M4

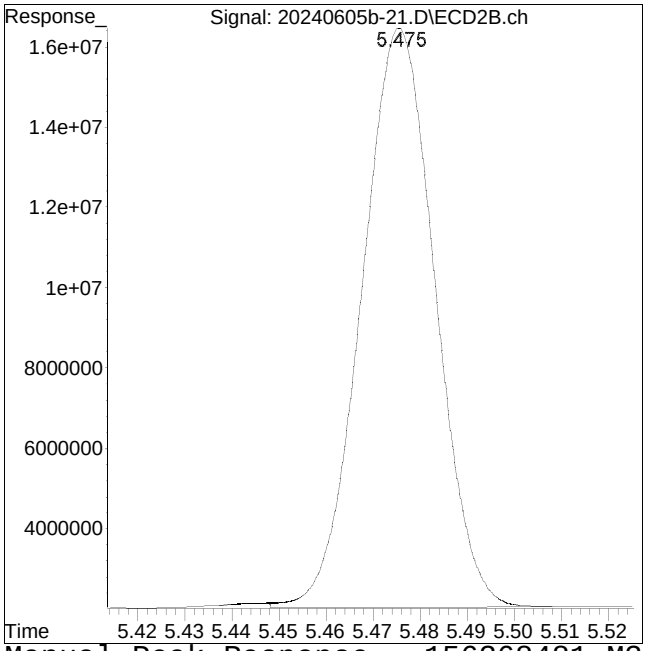
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #55: Dieldrin #2



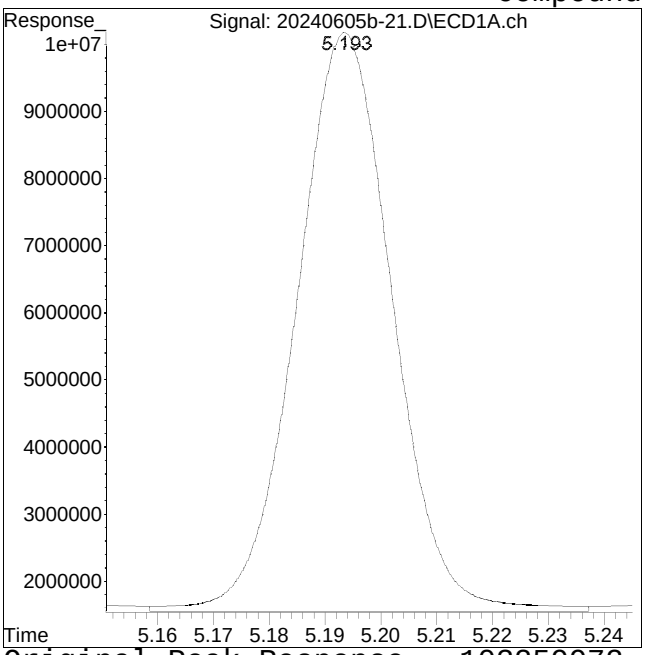


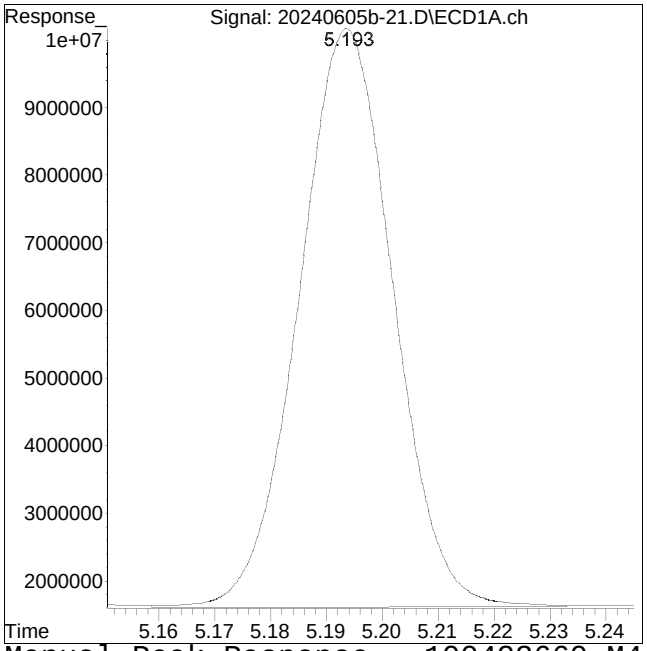
Original Peak Response = 161706584 Manual Peak Response = 156368481 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #18: Endrin



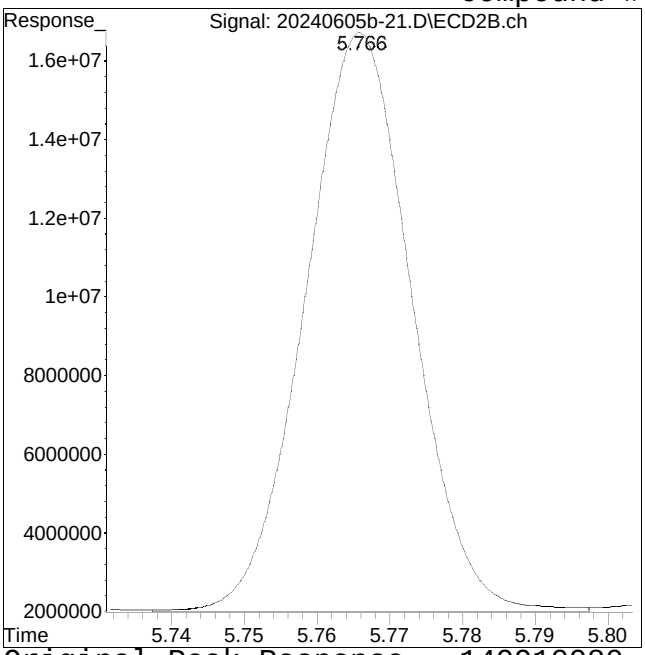


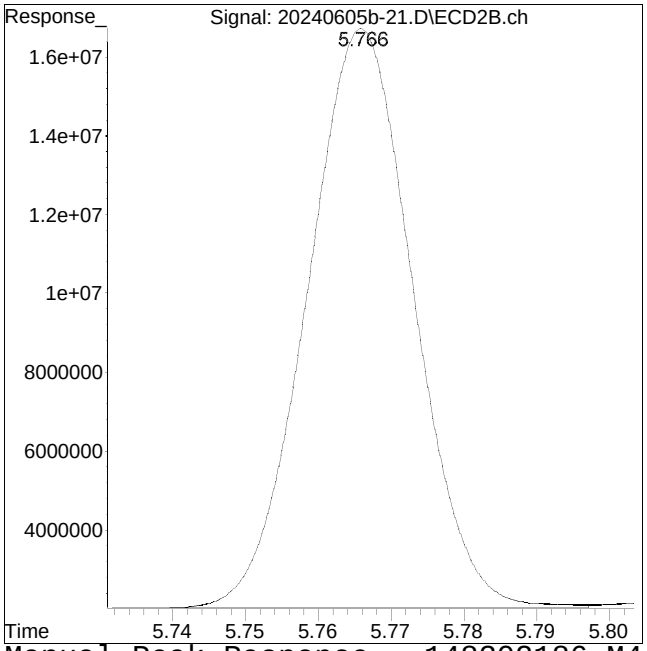
Original Peak Response = 103259972 Manual Peak Response = 100423660 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #56: Endrin #2



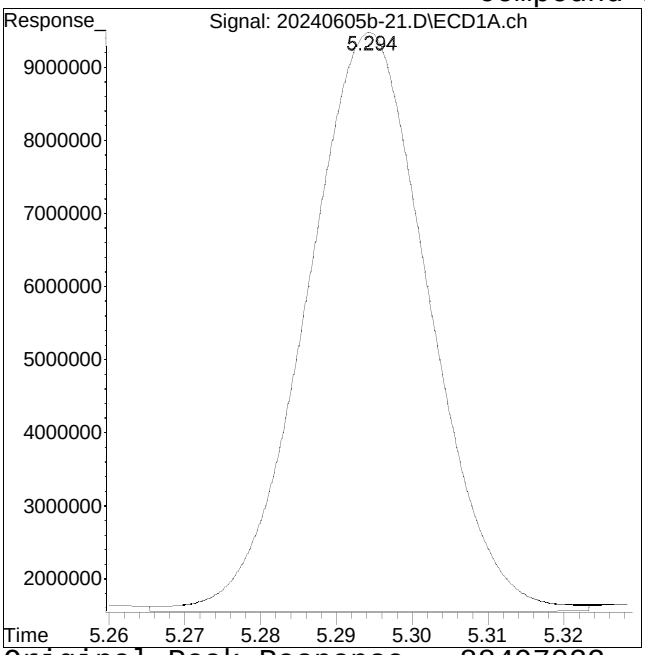


Original Peak Response = 149910980 Manual Peak Response = 148302186 M4
M4 = Poor automated baseline construction.

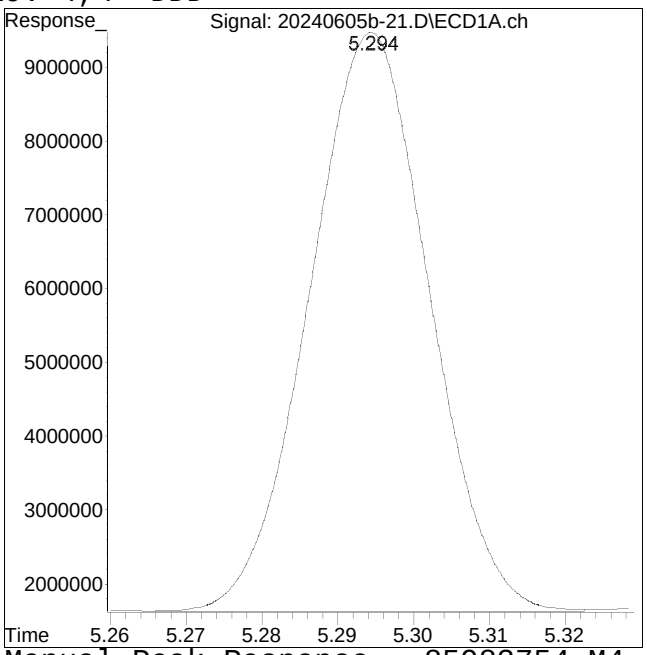
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #19: 4,4'-DDD



Original Peak Response = 88497032



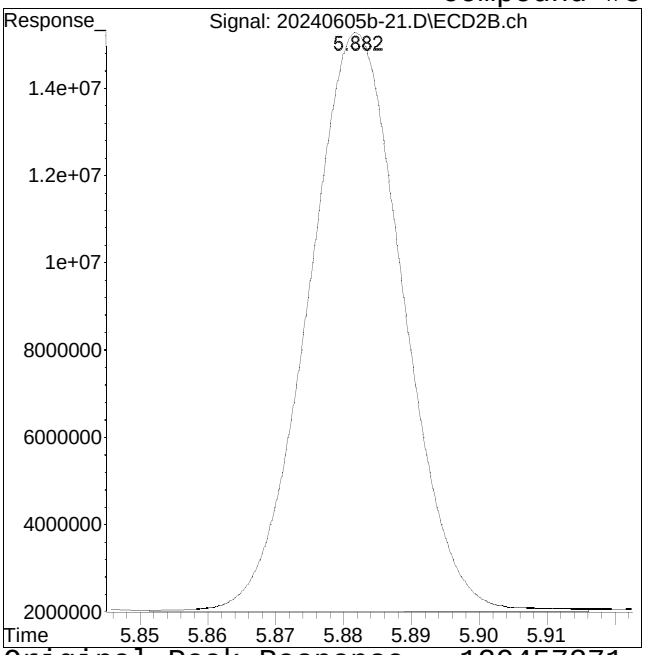
Manual Peak Response = 85983754 M4

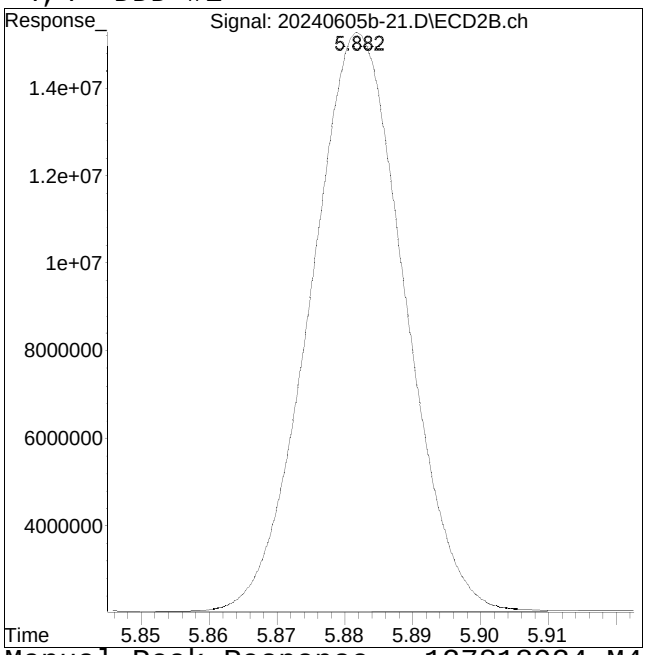
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #57: 4,4'-DDD #2



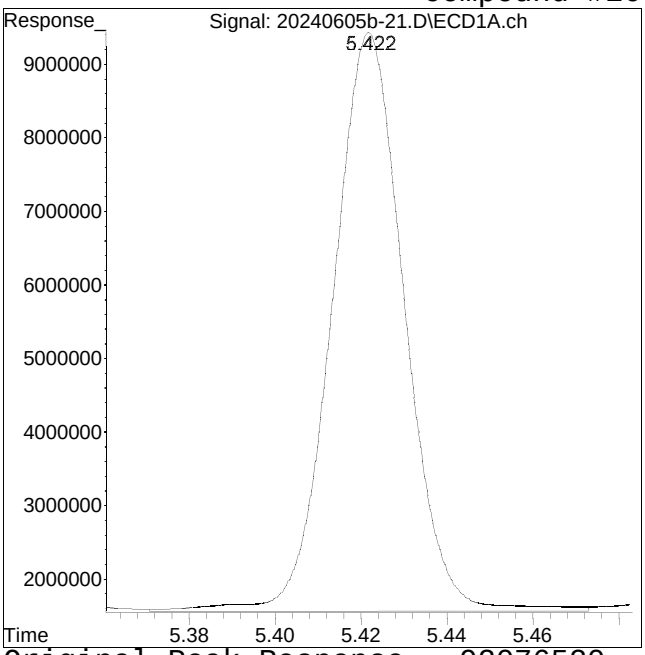


Original Peak Response = 129457371 Manual Peak Response = 127818924 M4
M4 = Poor automated baseline construction.

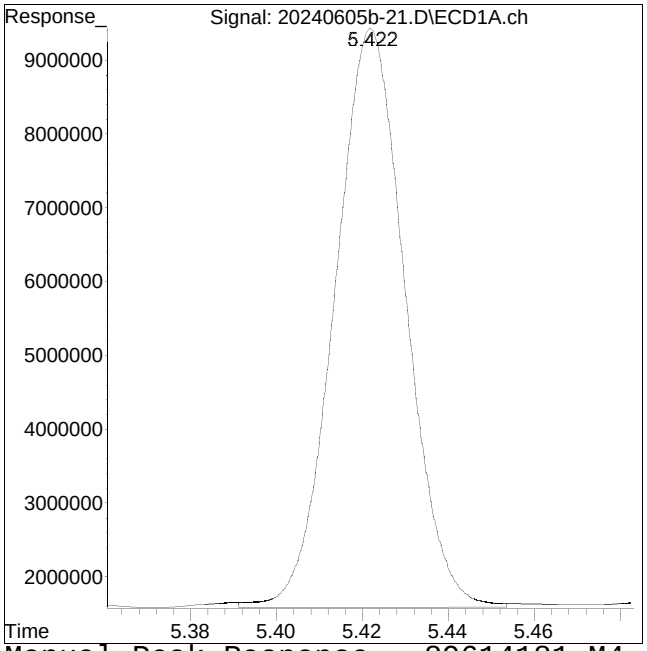
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #20: Endosulfan II



Original Peak Response = 92076520



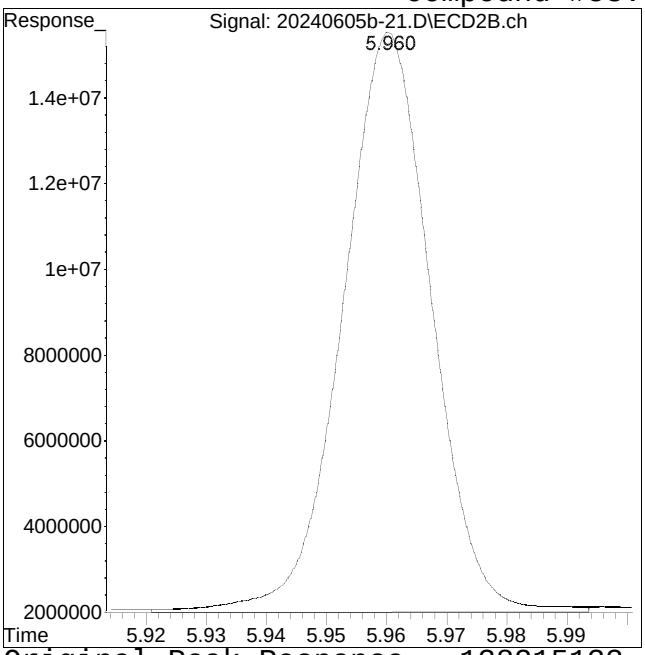
Manual Peak Response = 89614181 M4

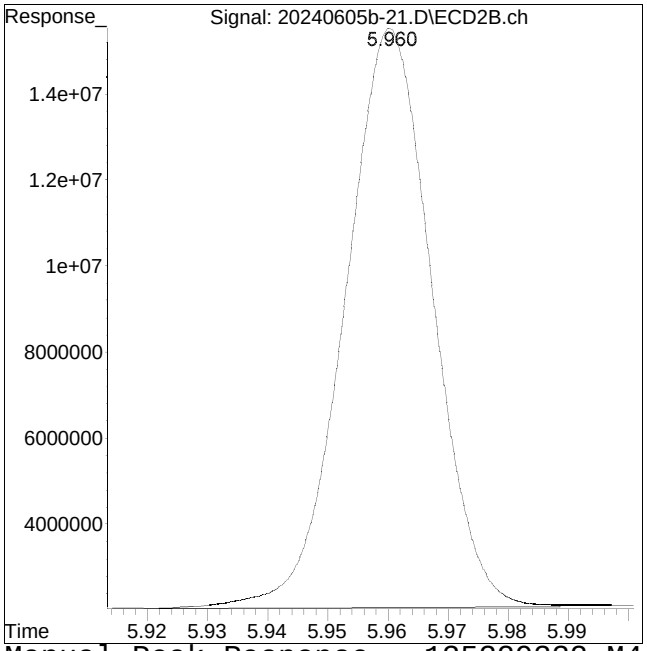
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #58: Endosulfan II #2



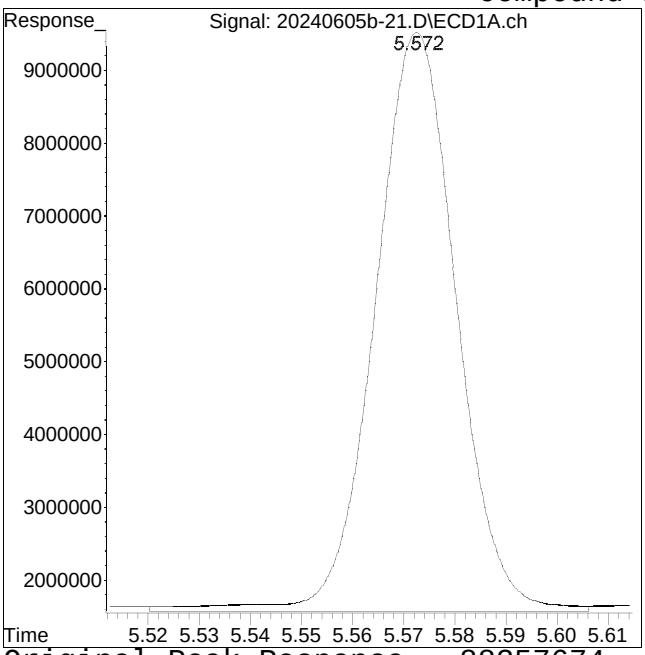


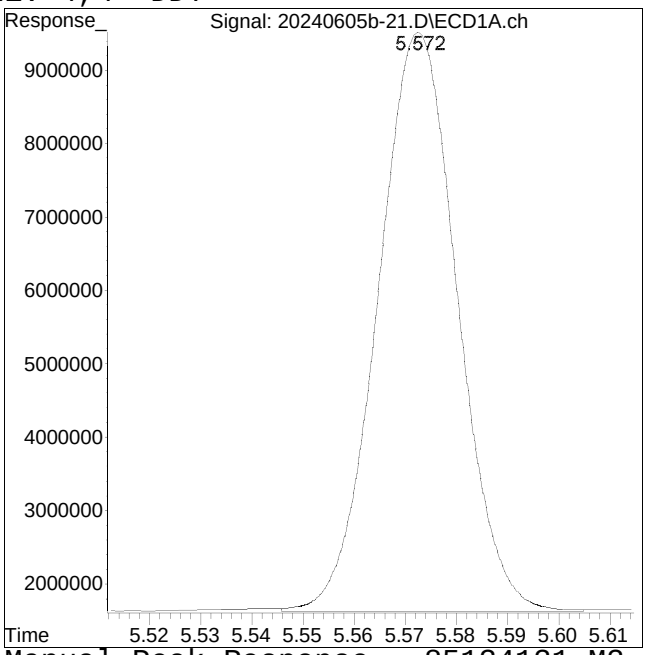
Original Peak Response = 138215133 Manual Peak Response = 135329332 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #21: 4,4'-DDT



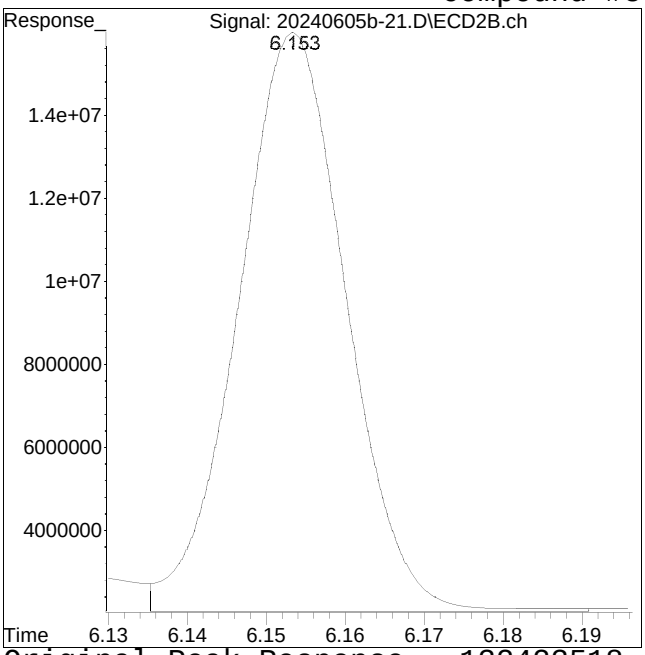


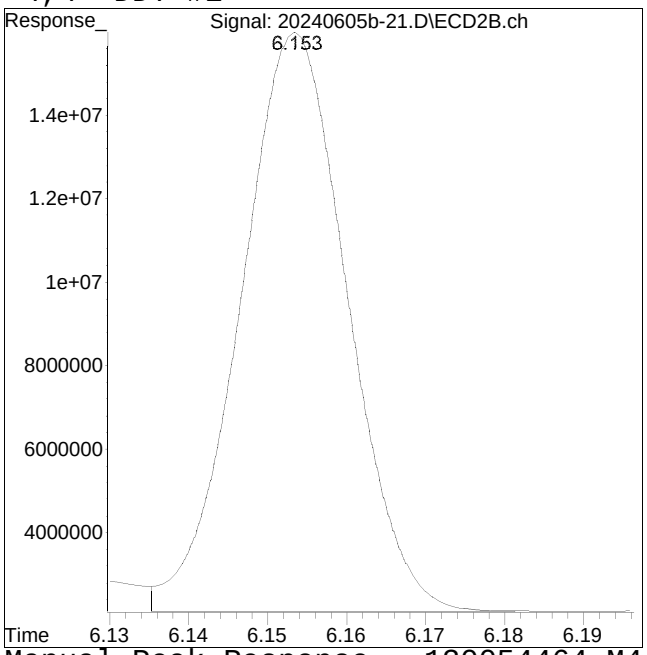
Original Peak Response = 88357674 Manual Peak Response = 85134131 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #59: 4,4'-DDT #2



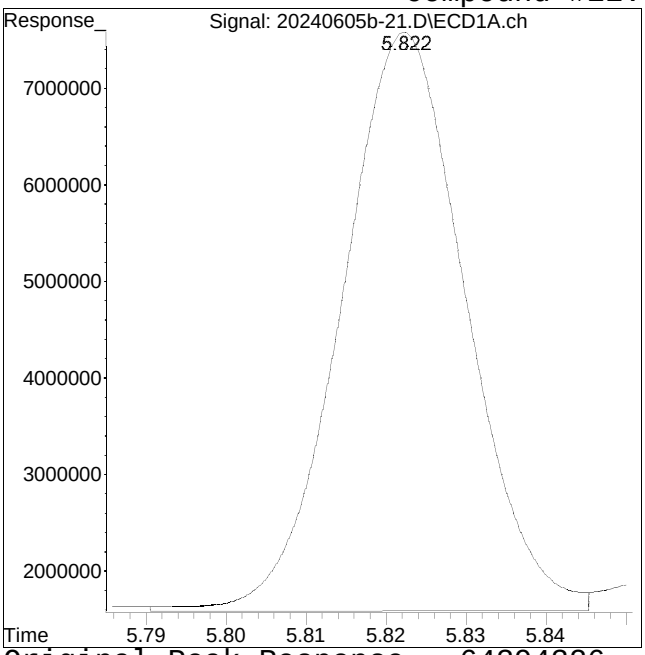


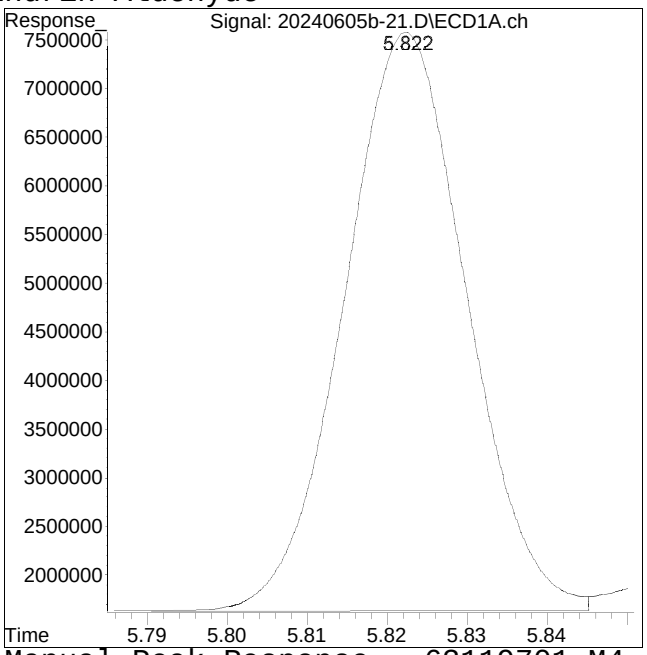
Original Peak Response = 132423518 Manual Peak Response = 130054464 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #22: Endrin Aldehyde



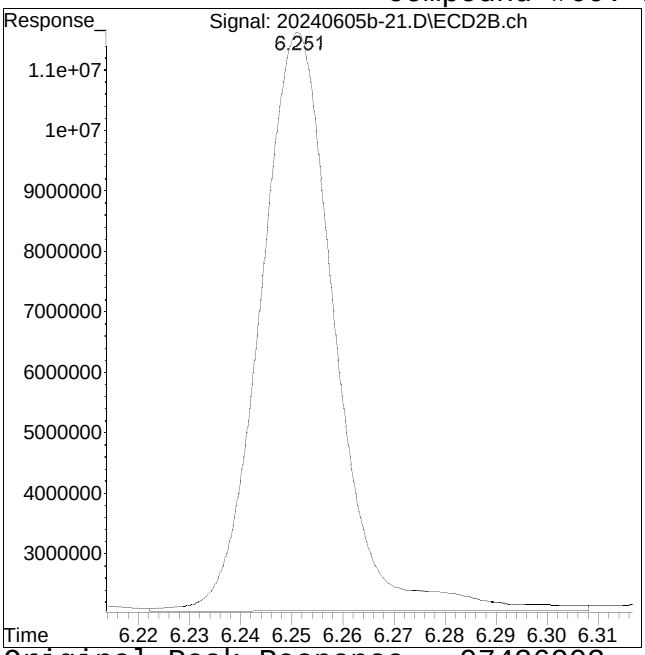


Original Peak Response = 64394326 Manual Peak Response = 63119701 M4
M4 = Poor automated baseline construction.

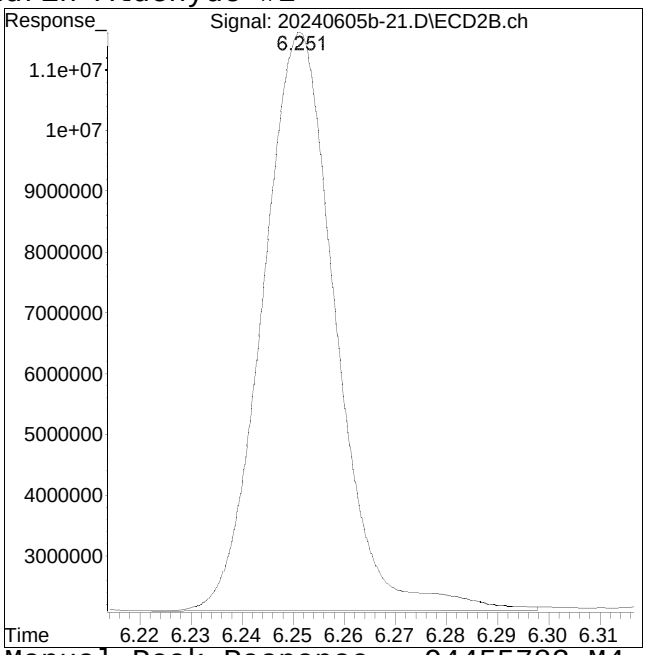
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 97436993



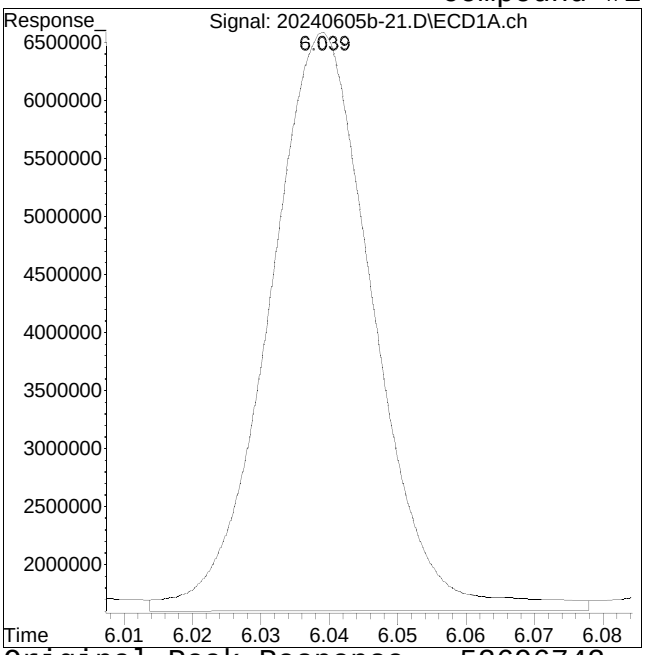
Manual Peak Response = 94455783 M4

M4 = Poor automated baseline construction.

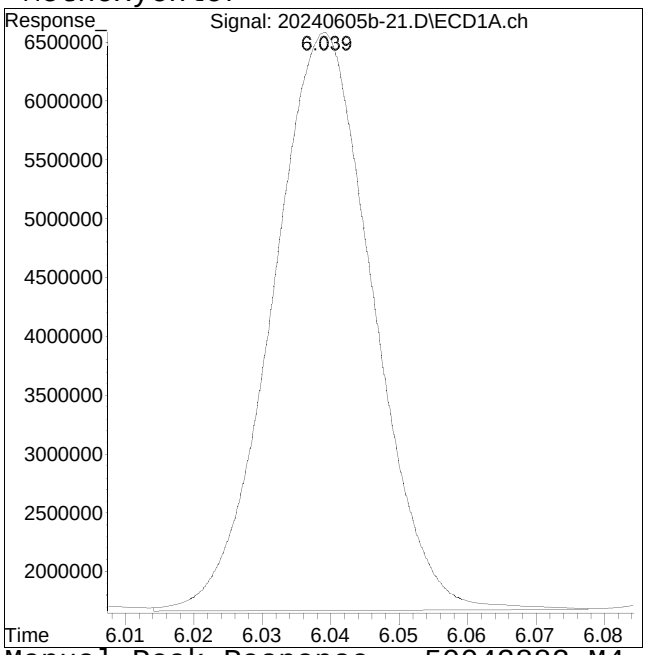
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #23: Methoxychlor



Original Peak Response = 52696742



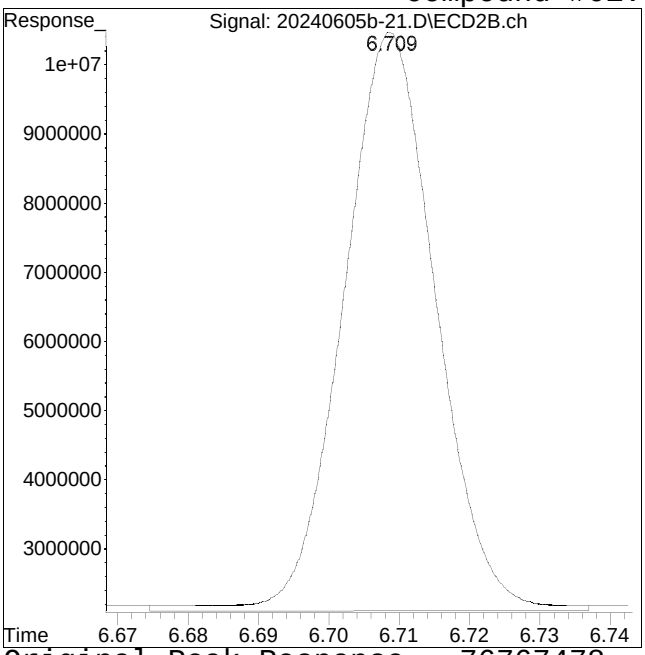
Manual Peak Response = 50043882 M4

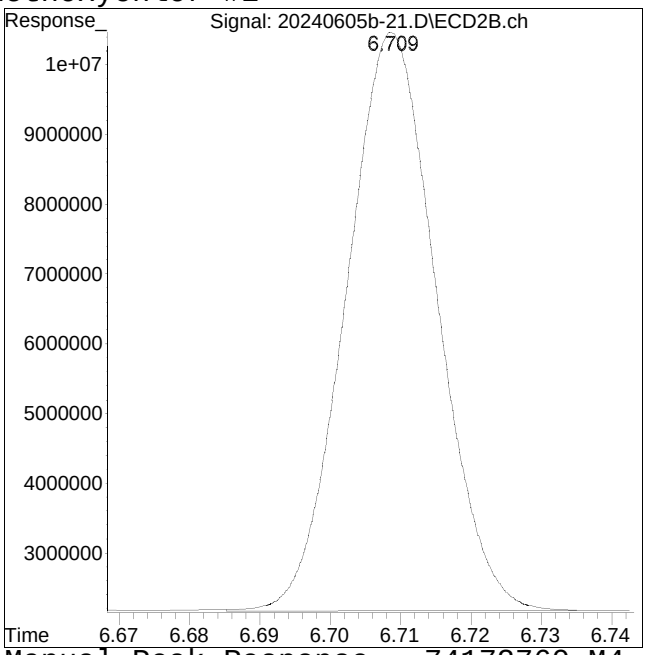
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #61: Methoxychlor #2



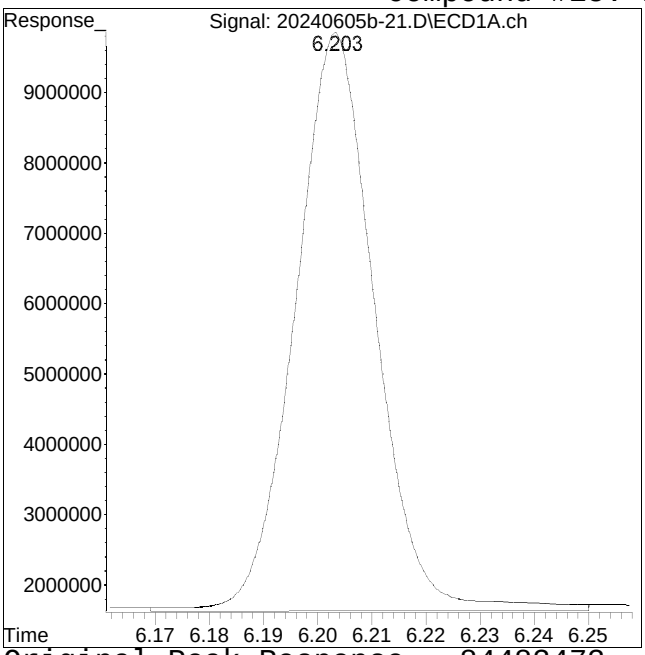


Original Peak Response = 76767478 Manual Peak Response = 74172760 M4
M4 = Poor automated baseline construction.

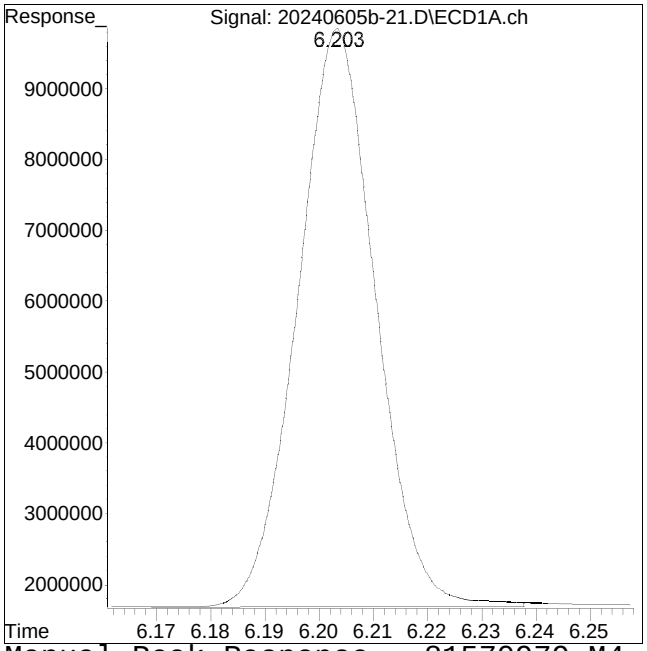
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #25: Endosulfan Sulfate



Original Peak Response = 84483473



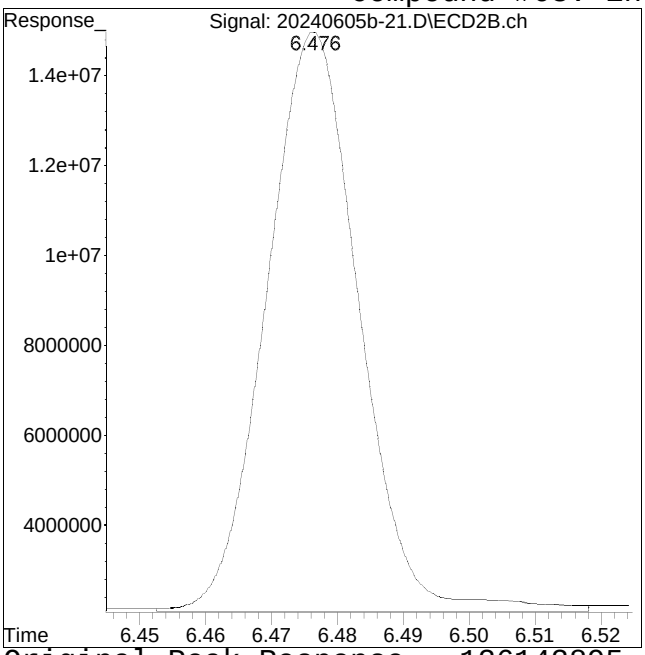
Manual Peak Response = 81570979 M4

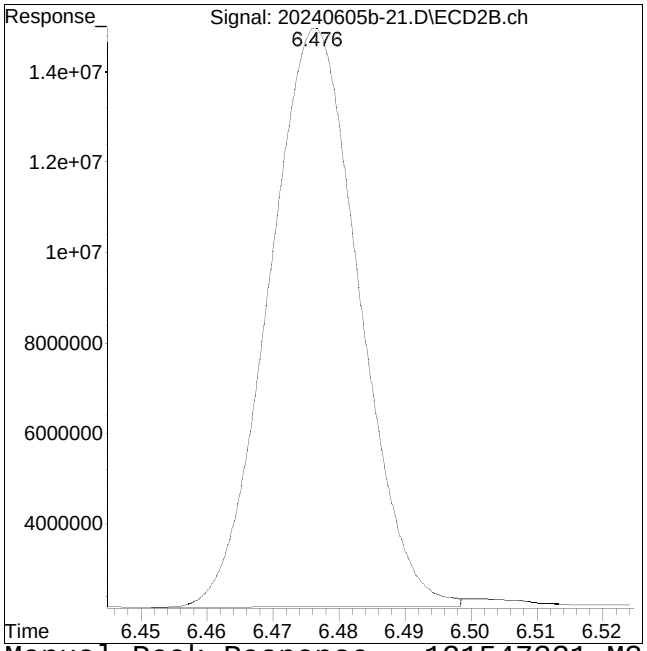
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #63: Endosulfan Sulfate #2



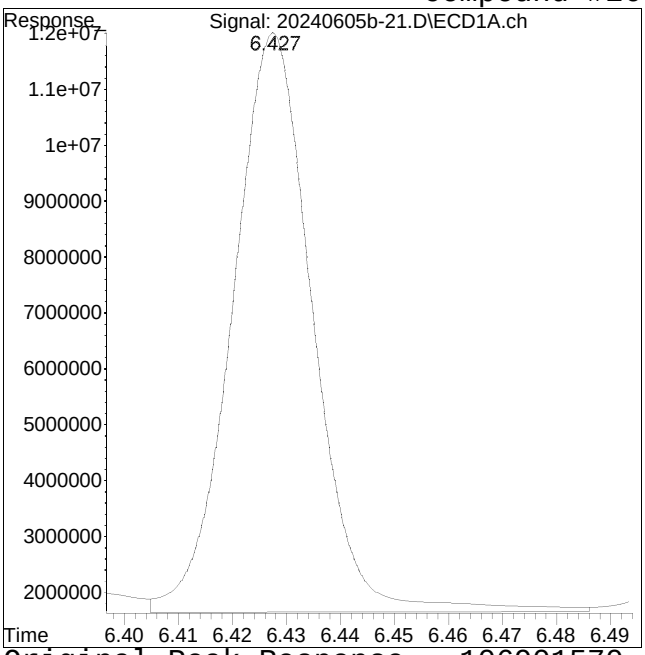


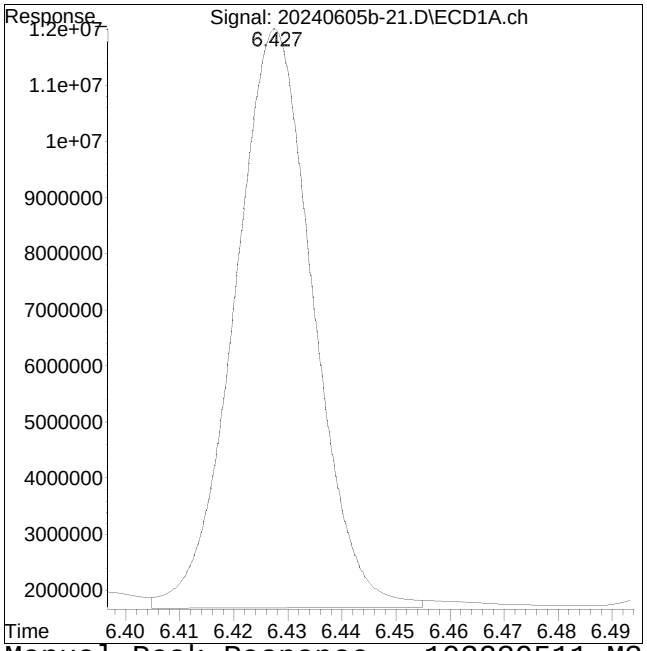
Original Peak Response = 126142895 Manual Peak Response = 121547331 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #26: Endrin Ketone



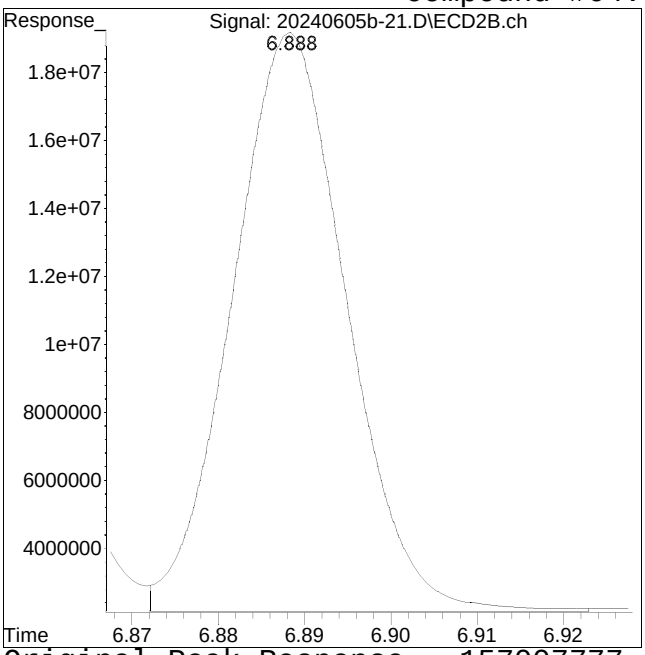


Original Peak Response = 106901570 Manual Peak Response = 103239511 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

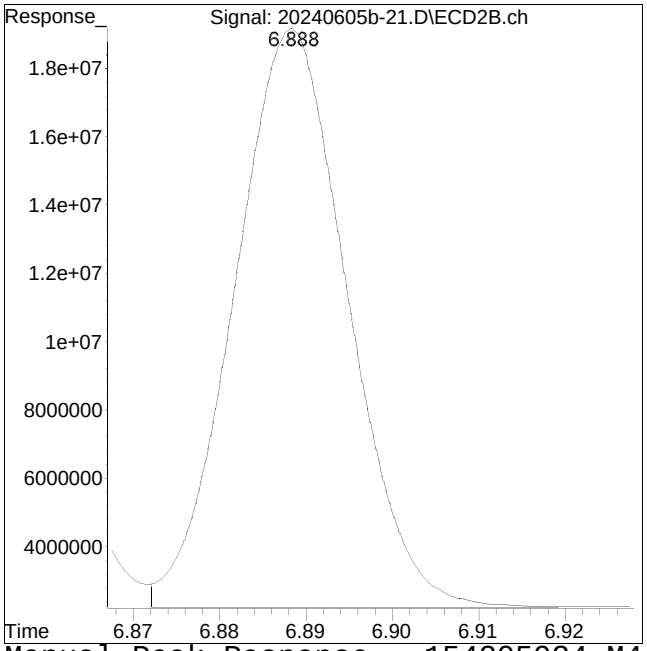
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #64: Endrin Ketone #2



Original Peak Response = 157007777



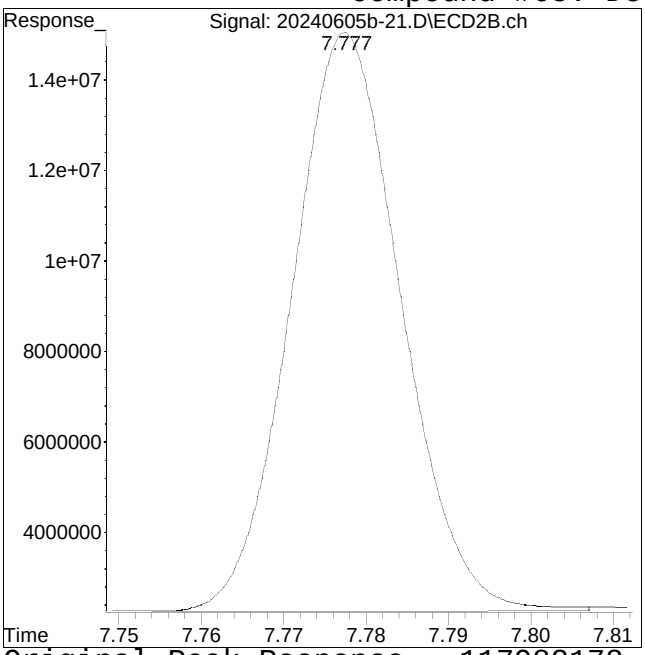
Manual Peak Response = 154205934 M4

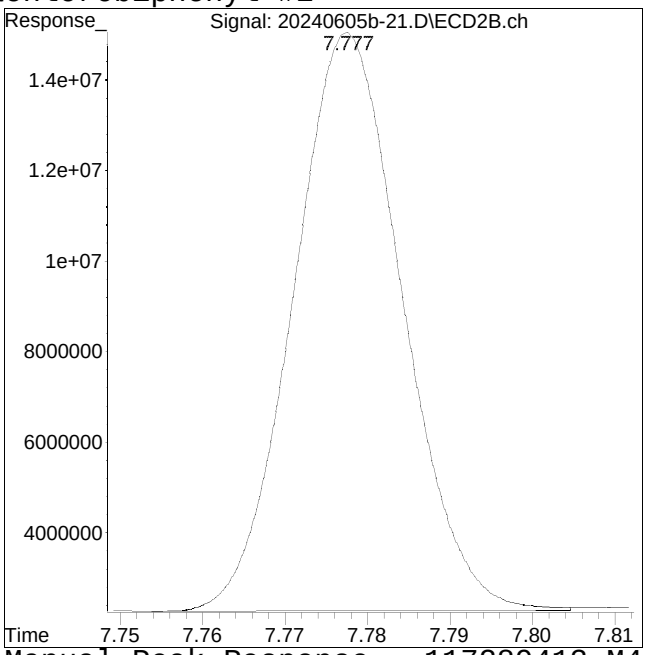
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-21.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:17 Instrument : PEST 20
Sample : WG1929733-4,42,, ms Quant Date : 6/6/2024 5:50 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 117982178 Manual Peak Response = 117289413 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-22.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 23:29
Operator : pest20:jag
Sample : WG1929733-5,42,, msd
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:50:45 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240605b\20240605b-03.D
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.884	1.926	66190837	102.5E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 60467879				Recovery = 109.46%		
	Standard Area 1 : #2 = 94939114				Recovery = 107.93%		
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.349	2.519	95721142	147.8E6	31.427M4	32.508M3
	Spiked Amount 50.000	Range 30 - 150			Recovery = 62.85%		65.02%
27) s	Decachlorobi	7.221	7.775	92281534	125.1E6	34.647M3	34.502M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 69.29%		69.00%
Target Compounds							
4)	alpha-BHC	2.734	3.001	130.3E6	201.6E6	35.922M4	35.917M4
5)	gamma-BHC (l	2.973	3.319	118.1E6	184.2E6	34.048M4	33.640M4
6)	beta-BHC	3.042	3.393	59390105	90474338	39.743M3	38.390M4
7)	delta-BHC	3.188	3.682	113.5E6	170.3E6	37.852M4	32.850M4
8)	Heptachlor	3.372	3.750	112.0E6	164.5E6	32.125M4	31.849M4
9)	Aldrin	3.645	4.092	108.3E6	161.1E6	31.569M4	33.181M4
12)	Heptachlor E	4.246	4.745	106.9E6	154.9E6	31.863M4	31.552M4
13)	gamma-Chlord	4.382	4.969	114.3E6	161.1E6	37.307M4	37.087M4
14)	alpha-Chlord	4.527	5.132	105.8E6	158.0E6	30.222M4	32.865M4
15)	4,4'-DDE	4.633	5.322	109.5E6	155.8E6	34.100M4	33.267M4
16)	Endosulfan I	4.674	5.191	100.5E6	150.3E6	31.519M4	33.395M4
17)	Dieldrin	4.948	5.475	115.2E6	170.1E6	35.475M4	36.979
18)	Endrin	5.192	5.766	109.4E6	160.7E6	33.651M4	34.432M4
19)	4,4'-DDD	5.293	5.881	93928982	138.8E6	41.041M4	36.714M4
20)	Endosulfan I	5.421	5.960	97484189	146.1E6	35.252M4	34.440M4
21)	4,4'-DDT	5.571	6.153	92505473	141.4E6	37.349M4	34.331M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-22.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 23:29
Operator : pest20:jag
Sample : WG1929733-5,42,, msd
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:50:45 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest20\2024\240605b\20240605b-03.D
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) Endrin Aldeh	5.821	6.250	68118959	100.5E6	32.673M4	30.735M3
23) Methoxychlor	6.038	6.708	55115241	79162155	43.369M4	33.101M4
25) Endosulfan S	6.203	6.475	89372619	135.6E6	39.344M3	33.903M3
26) Endrin Keton	6.427	6.887	108.4E6	167.5E6	42.273M3	36.339M4
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

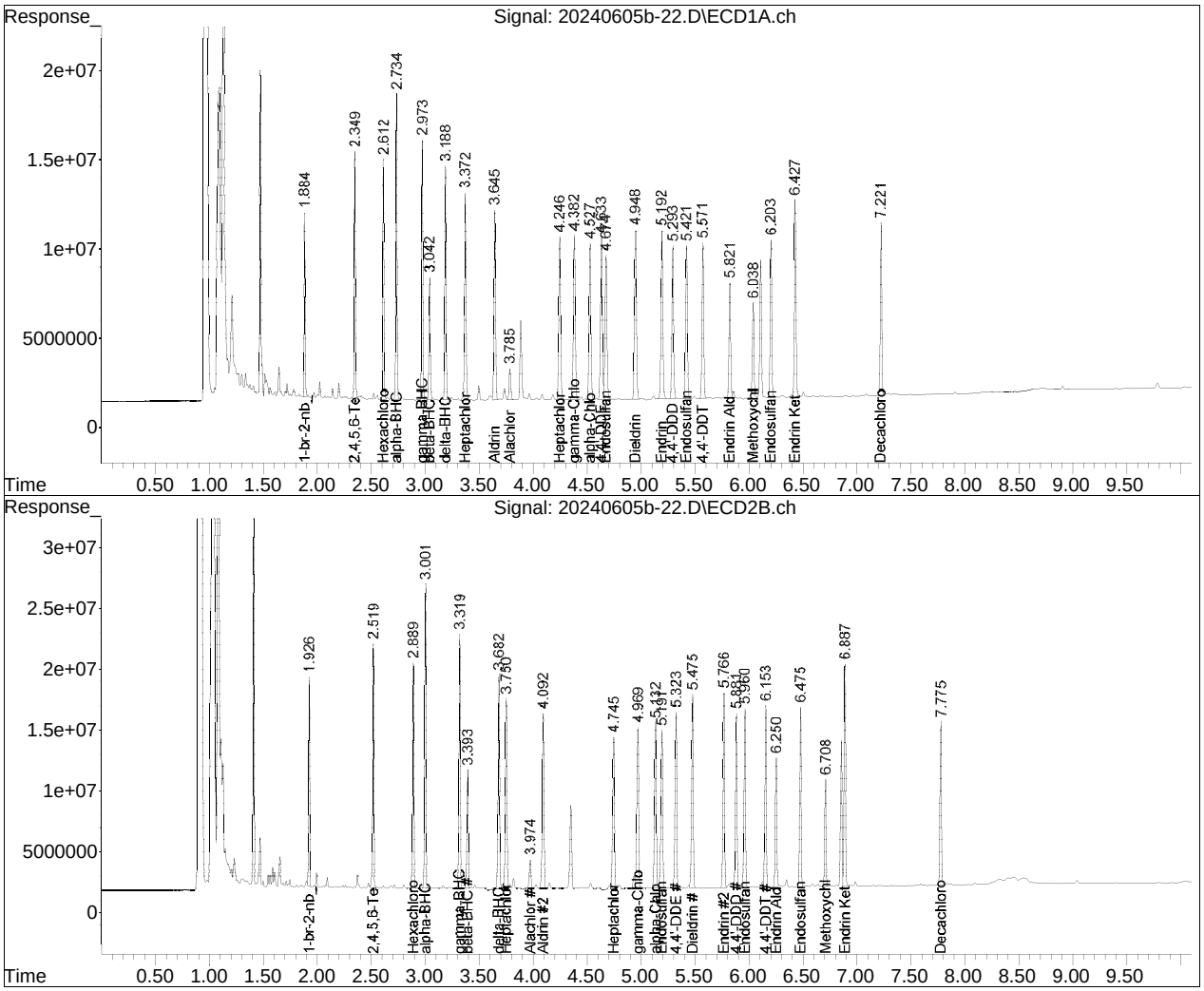
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only0\2024\240605b\20240605b-03.D•

Data Path : I:\PEST\Pest20\2024\240605b\
Data File : 20240605b-22.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2024 23:29
Operator : pest20:jag
Sample : WG1929733-5,42,, msd
Misc : wg1930283,WG1929733,ical21144
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 06 05:50:45 2024
Quant Method : I:\PEST\Pest20\2024\240605b\pest20_2024_05_14_ugL_ICAL21144.m
Quant Title : pest
QLast Update : Wed Jun 05 20:32:09 2024
Response via : Initial Calibration
Integrator: ChemStation

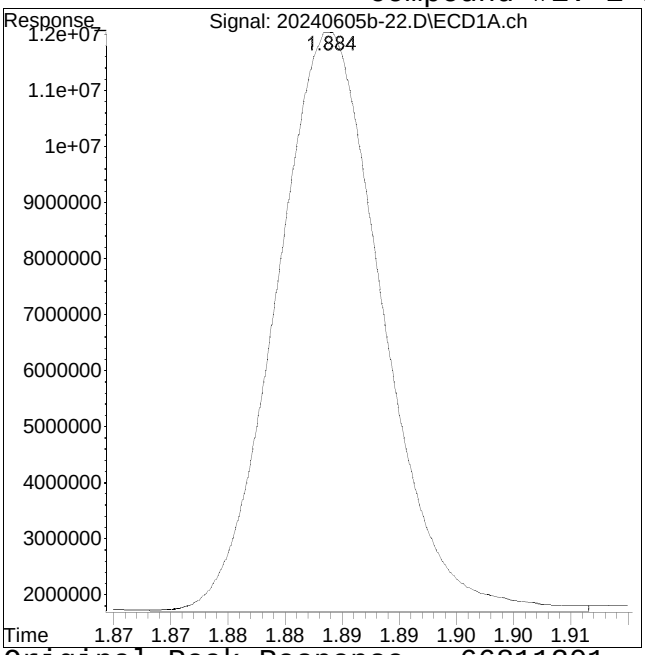
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

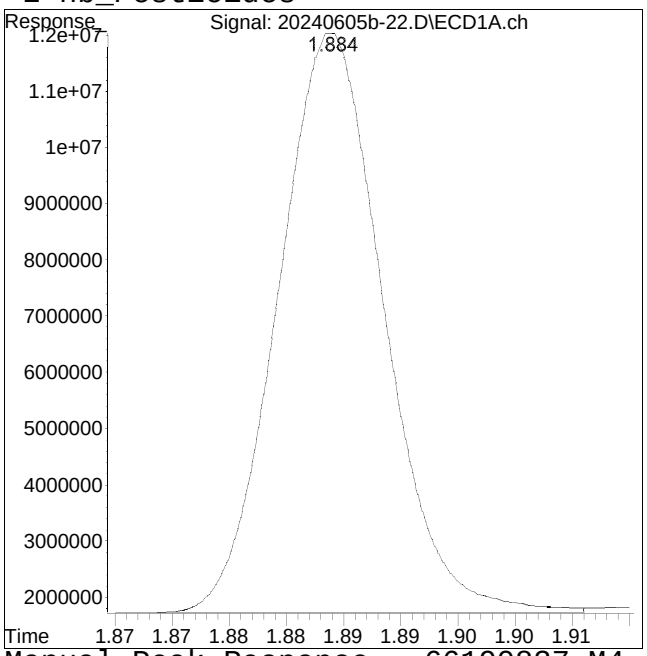


Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #1: 1-br-2-nb_Pesticides



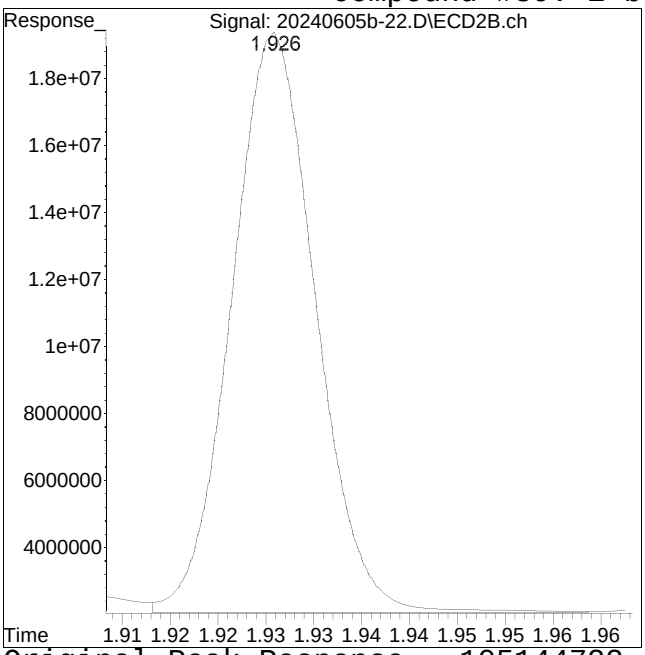


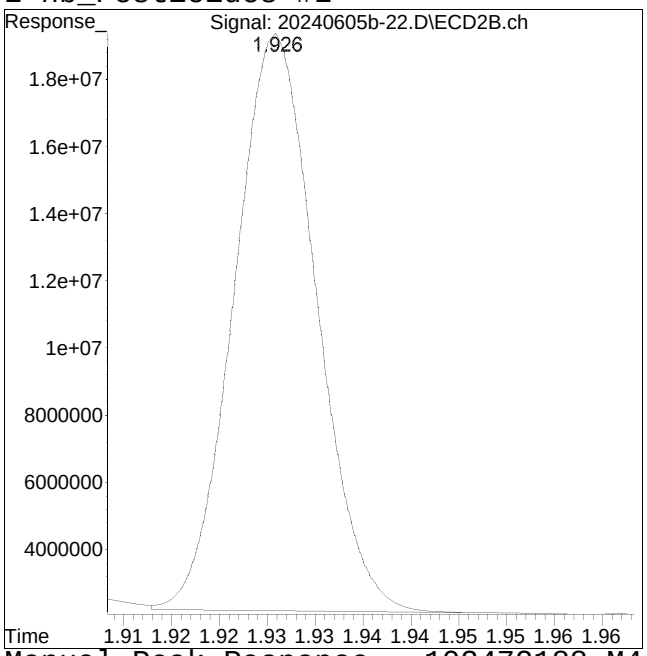
Original Peak Response = 66811201 Manual Peak Response = 66190837 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #39: 1-br-2-nb_Pesticides #2



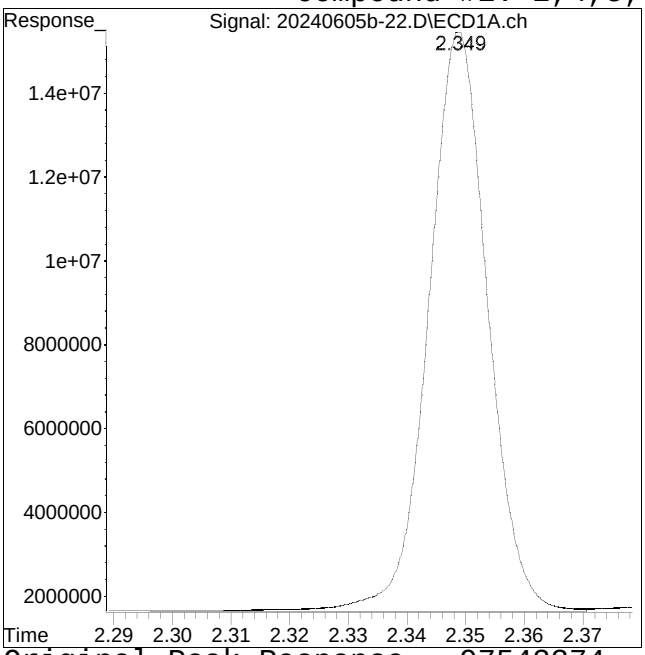


Original Peak Response = 105144722 Manual Peak Response = 102472188 M4
M4 = Poor automated baseline construction.

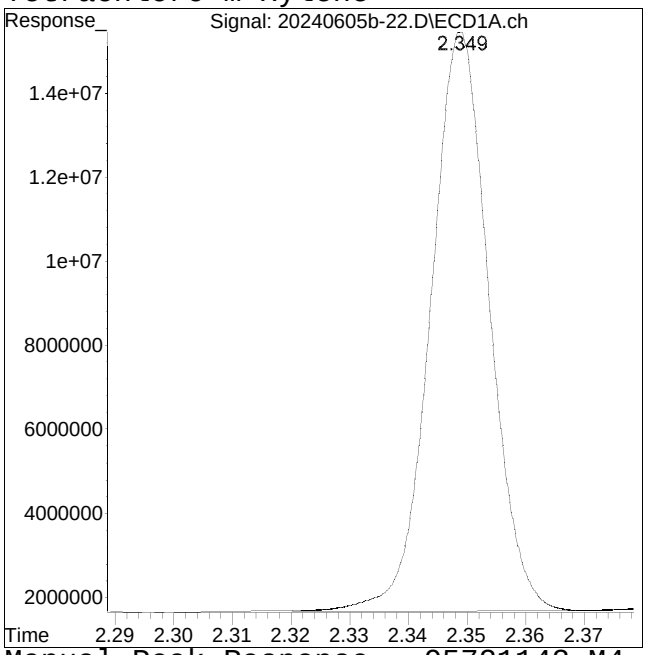
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 97542374



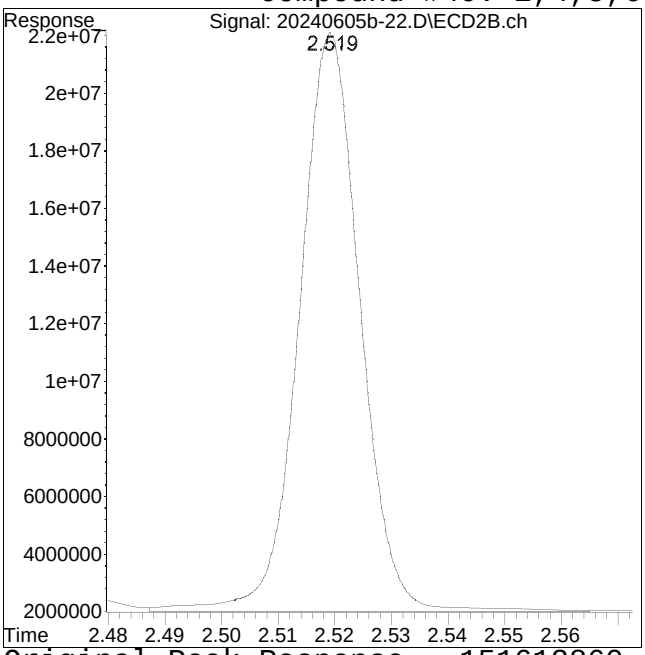
Manual Peak Response = 95721142 M4

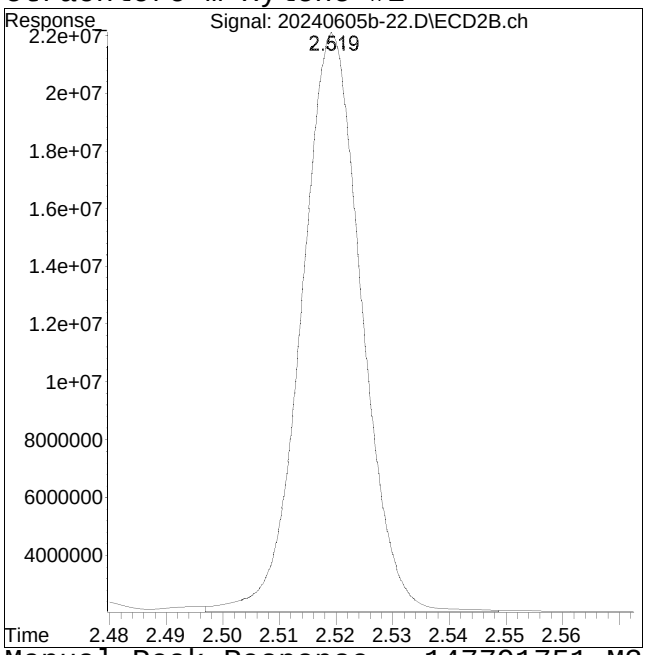
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



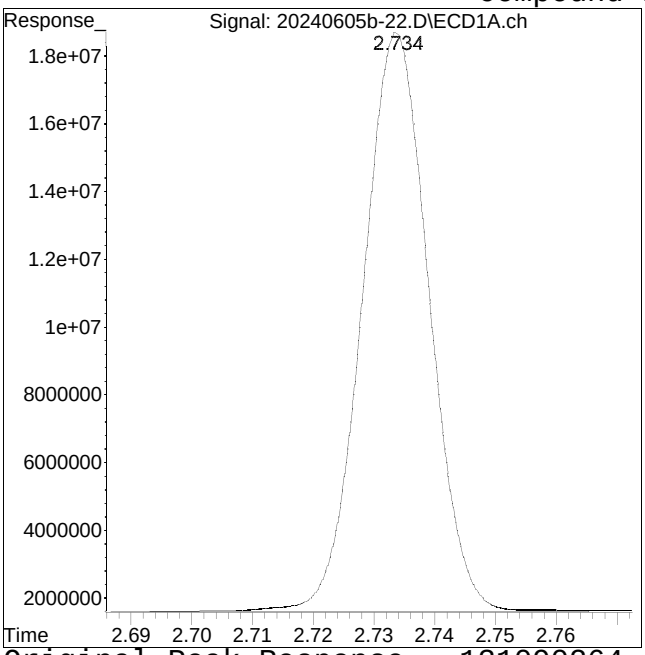


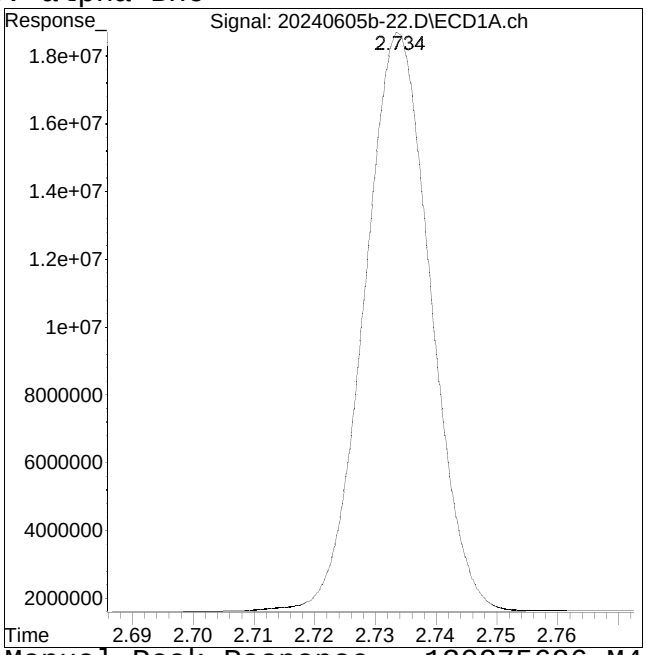
Original Peak Response = 151612860 Manual Peak Response = 147791751 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #4: alpha-BHC



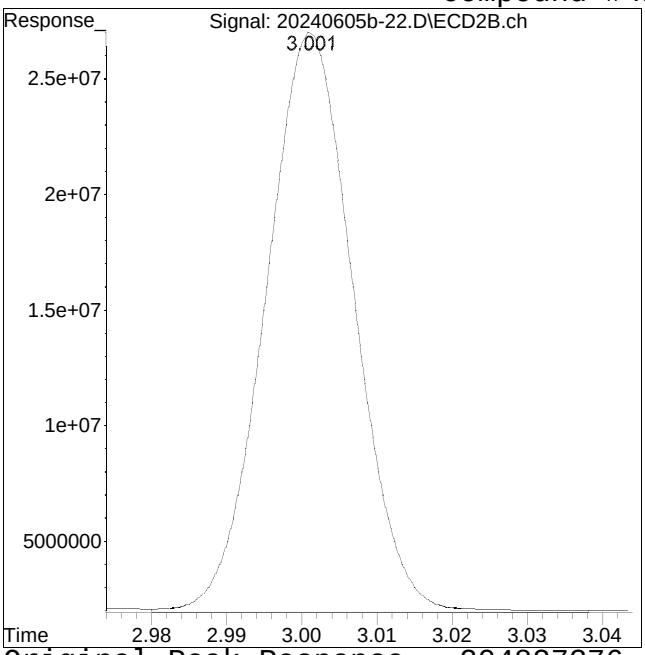


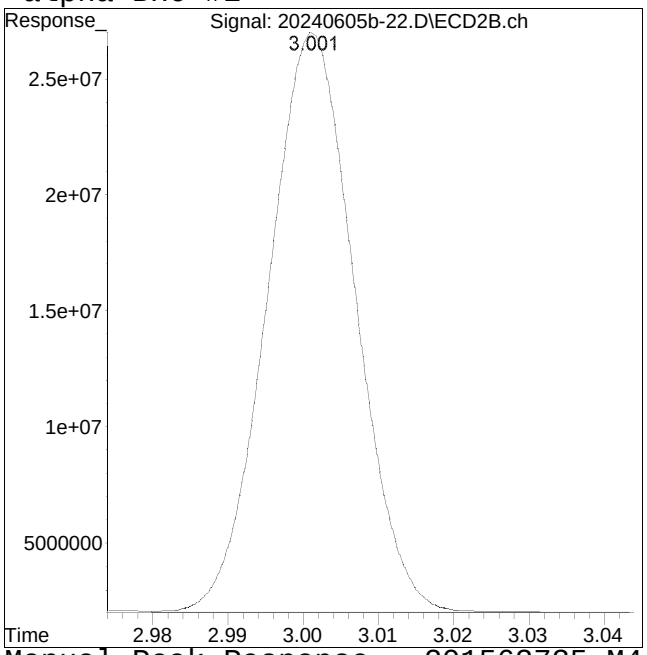
Original Peak Response = 131090264 Manual Peak Response = 130275696 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #42: alpha-BHC #2



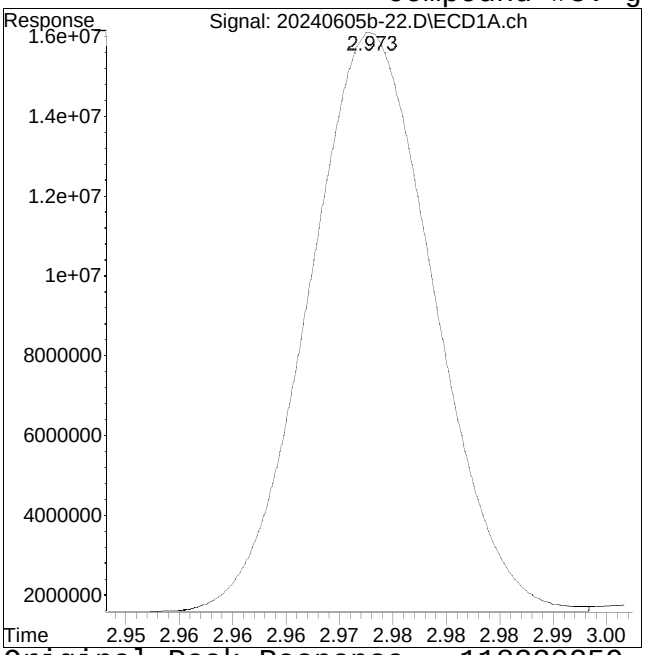


Original Peak Response = 204827376 Manual Peak Response = 201563735 M4
M4 = Poor automated baseline construction.

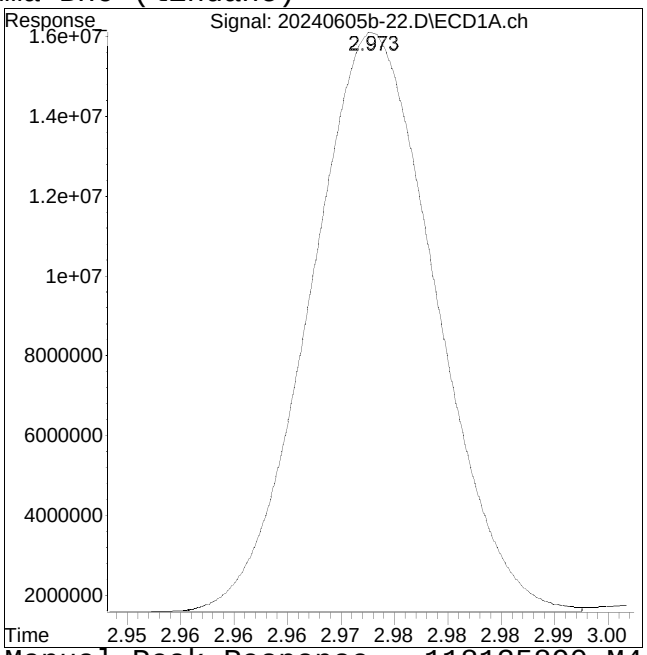
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 118329259



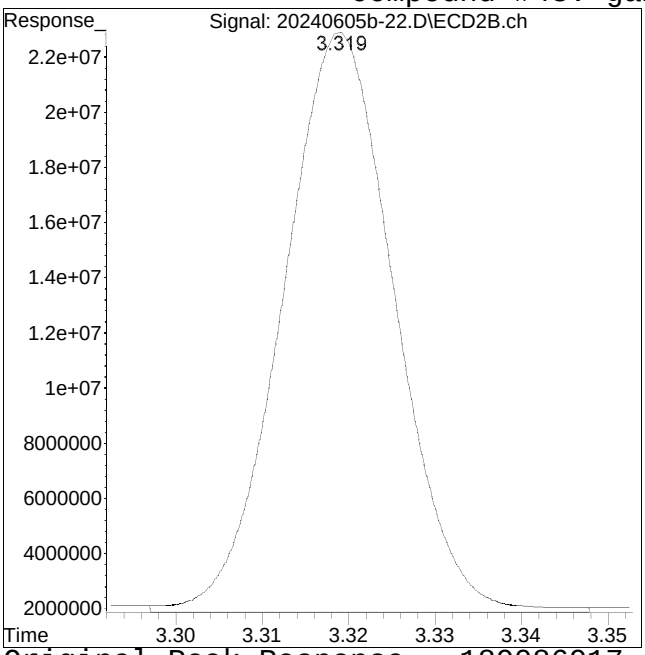
Manual Peak Response = 118135890 M4

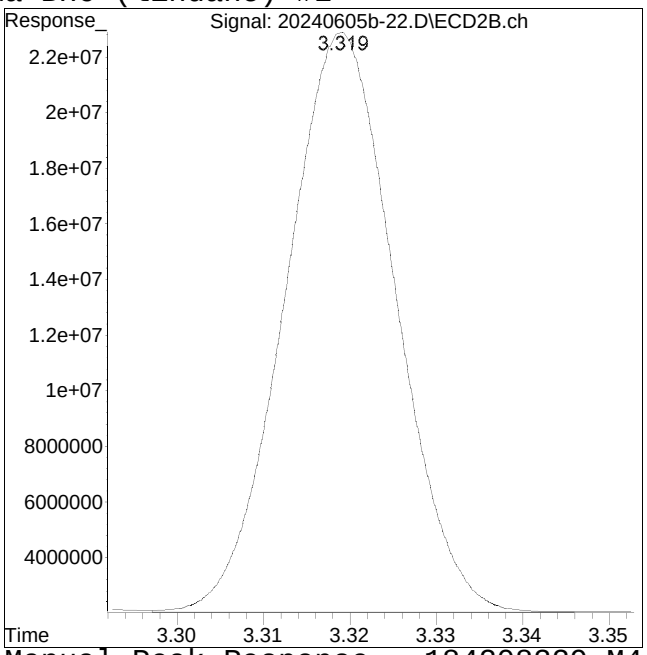
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #43: gamma-BHC (lindane) #2



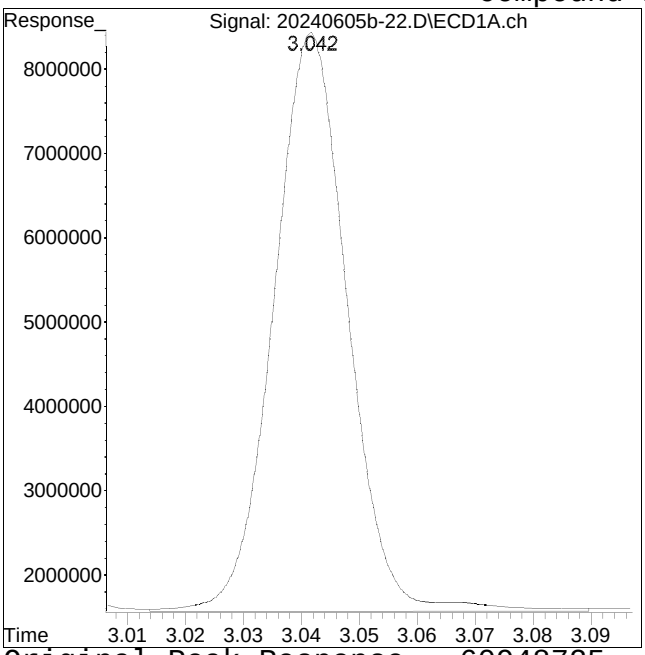


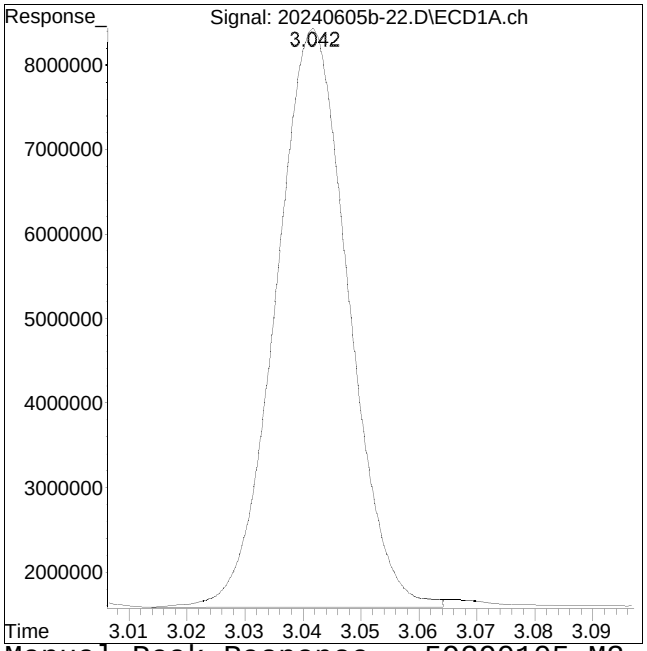
Original Peak Response = 189086917 Manual Peak Response = 184208329 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #6: beta-BHC



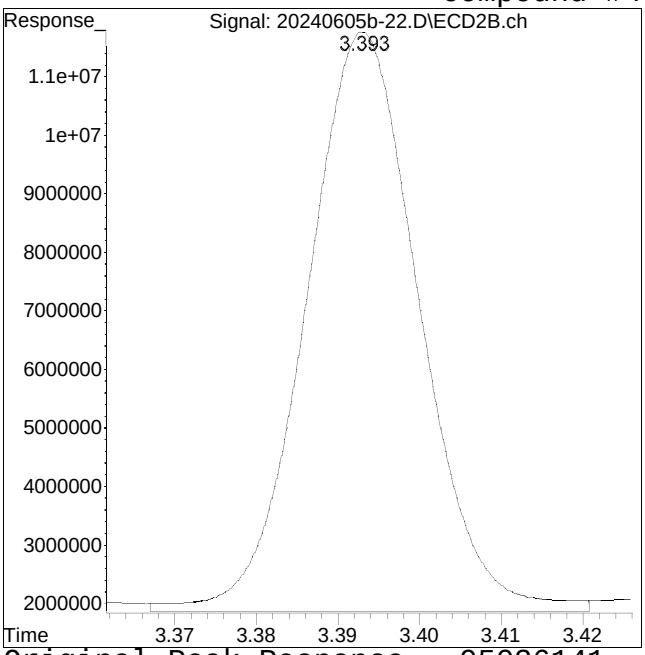


Original Peak Response = 60948725 Manual Peak Response = 59390105 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

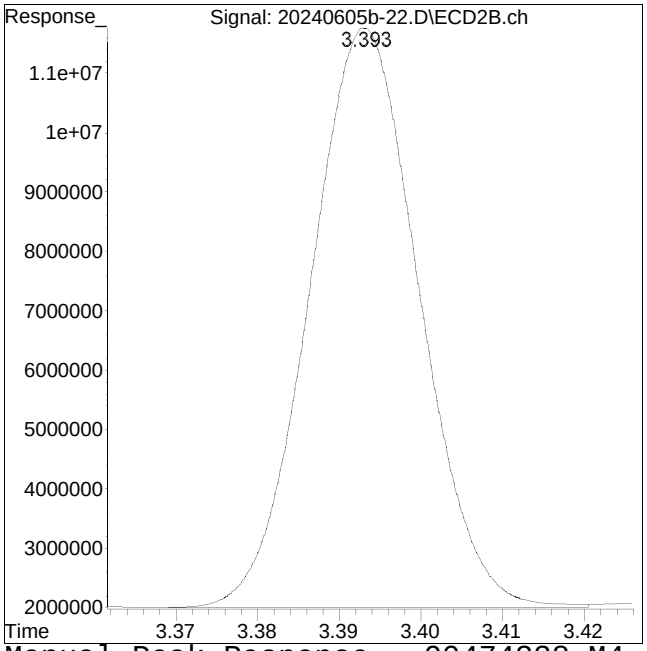
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #44: beta-BHC #2



Original Peak Response = 95036141



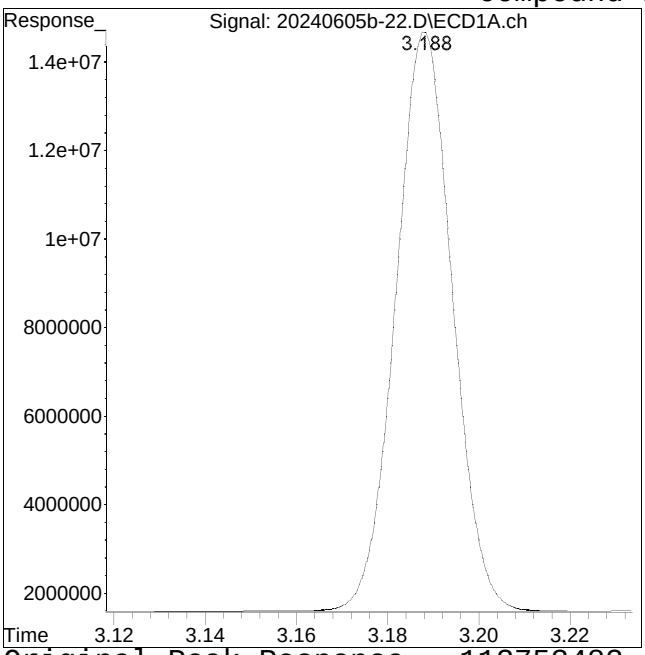
Manual Peak Response = 90474338 M4

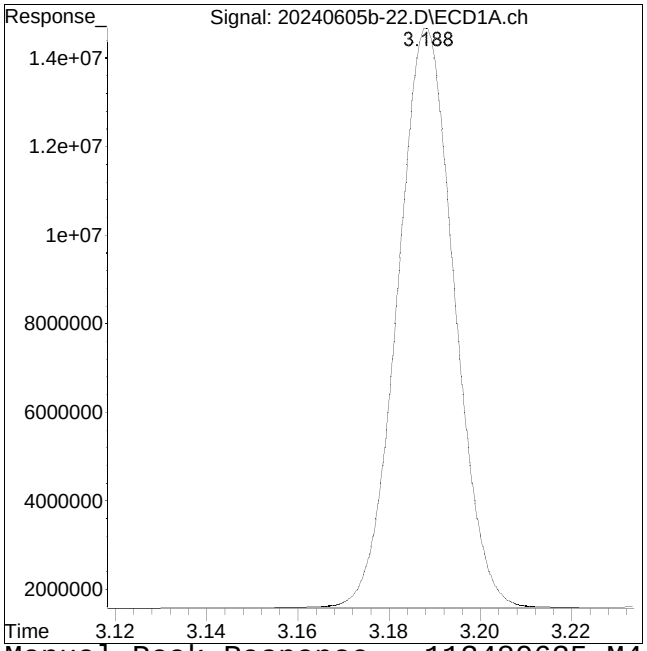
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #7: delta-BHC



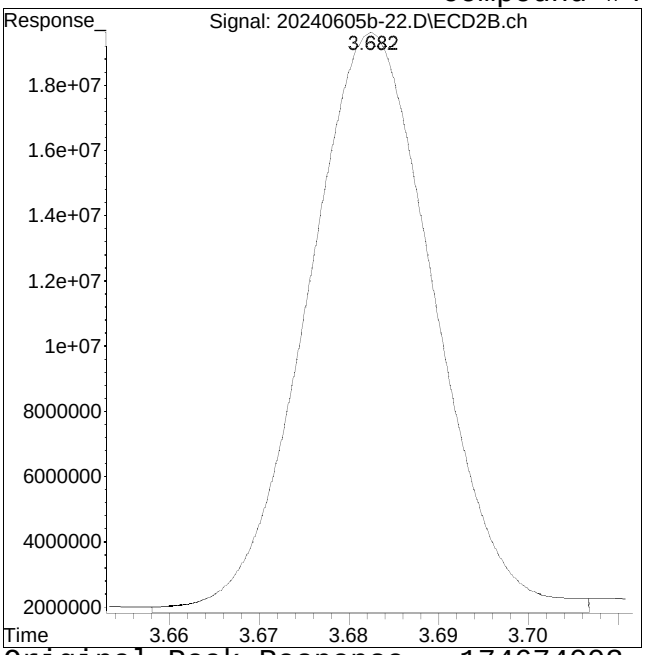


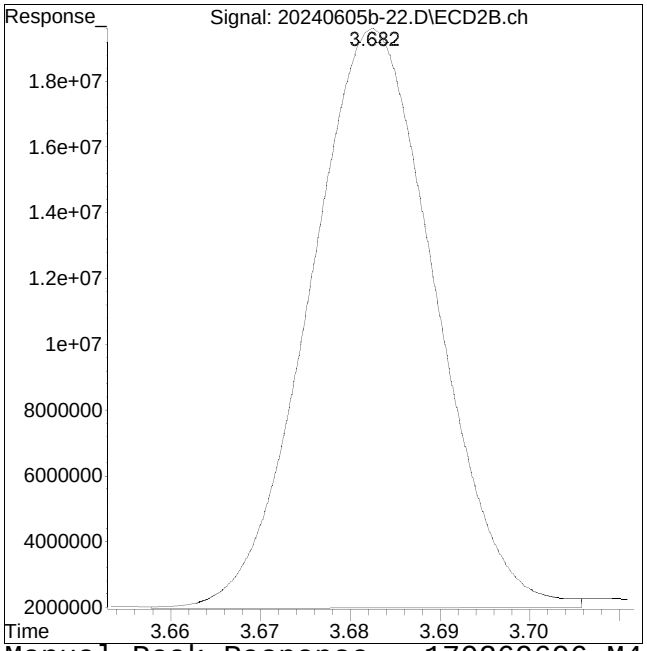
Original Peak Response = 113753483 Manual Peak Response = 113480635 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #45: delta-BHC #2



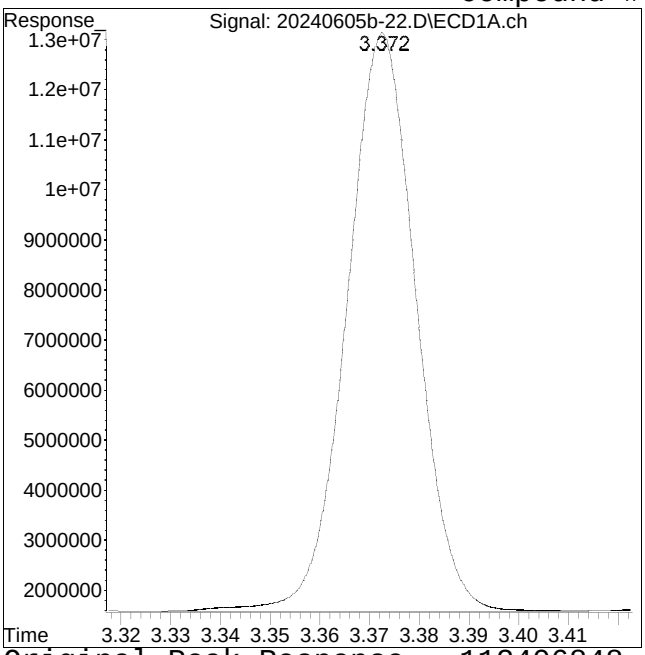


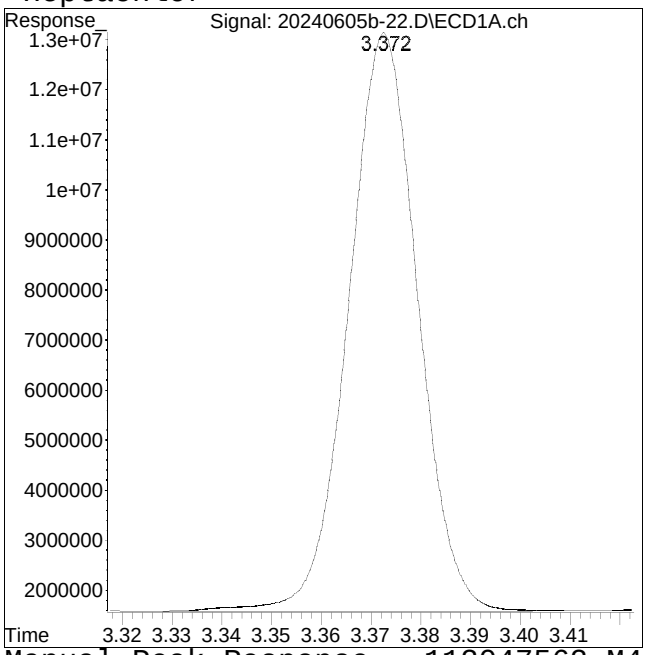
Original Peak Response = 174674003 Manual Peak Response = 170269696 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #8: Heptachlor



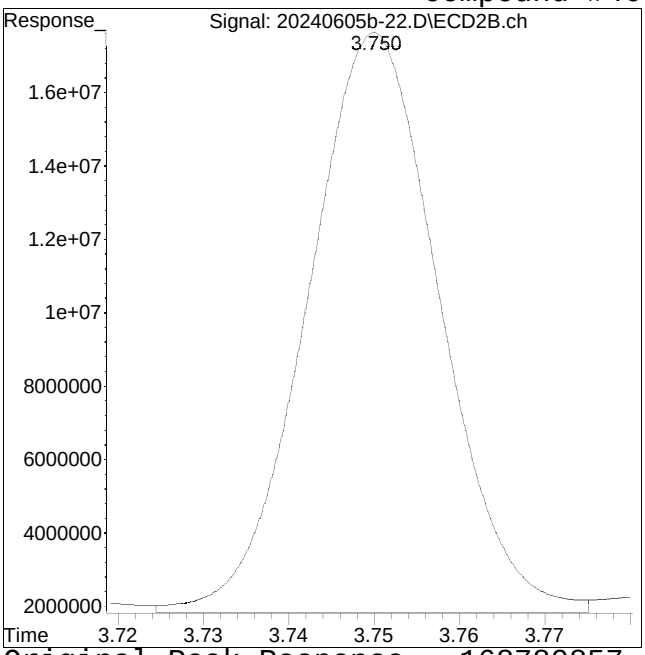


Original Peak Response = 112406848 Manual Peak Response = 112047562 M4
M4 = Poor automated baseline construction.

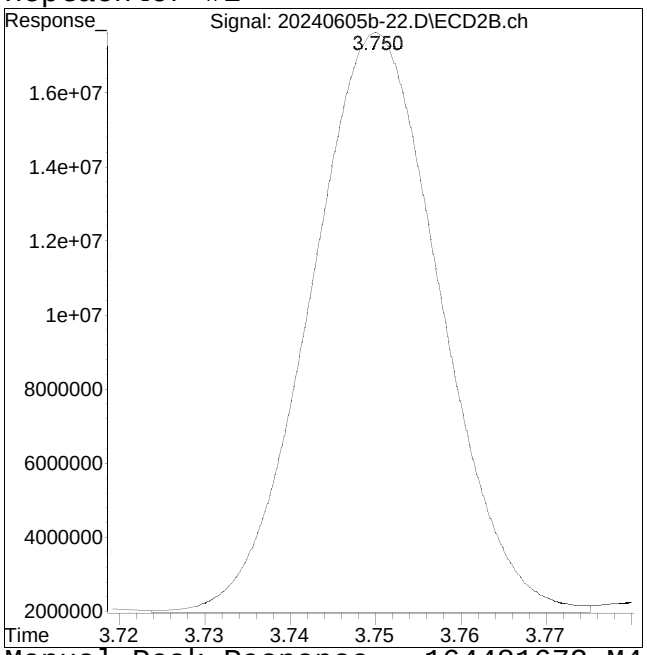
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #46: Heptachlor #2



Original Peak Response = 168780857



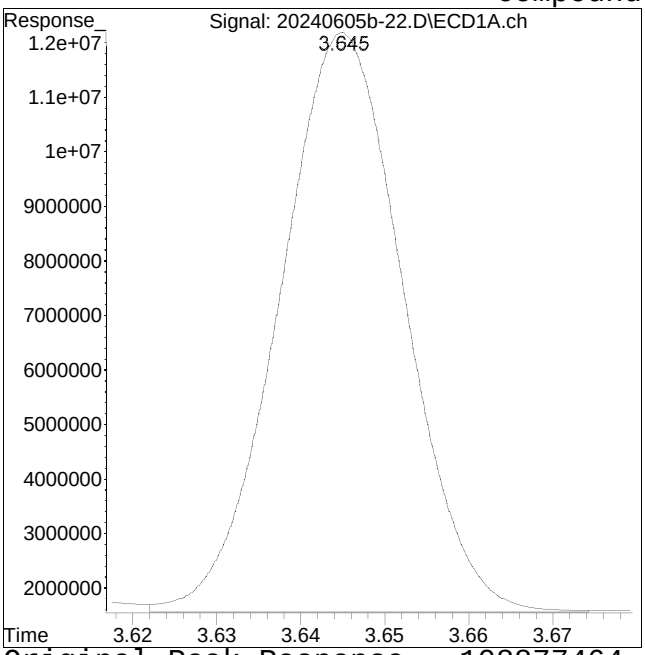
Manual Peak Response = 164481672 M4

M4 = Poor automated baseline construction.

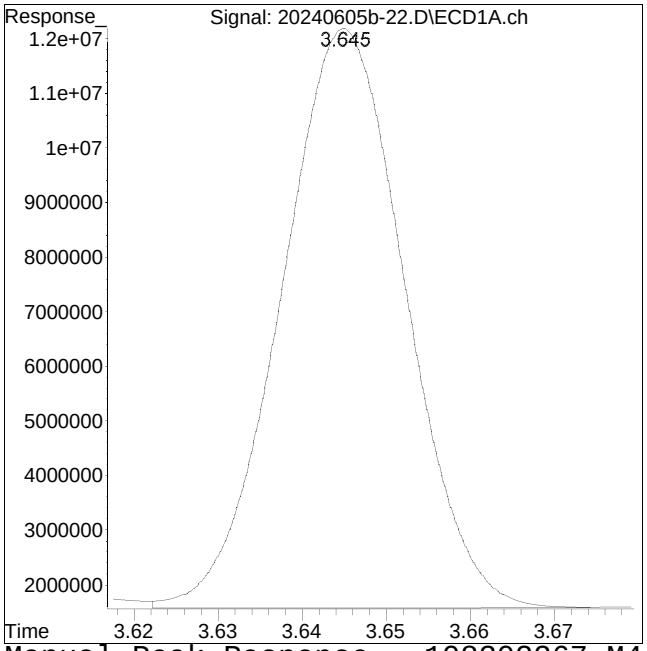
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #9: Aldrin



Original Peak Response = 108877464



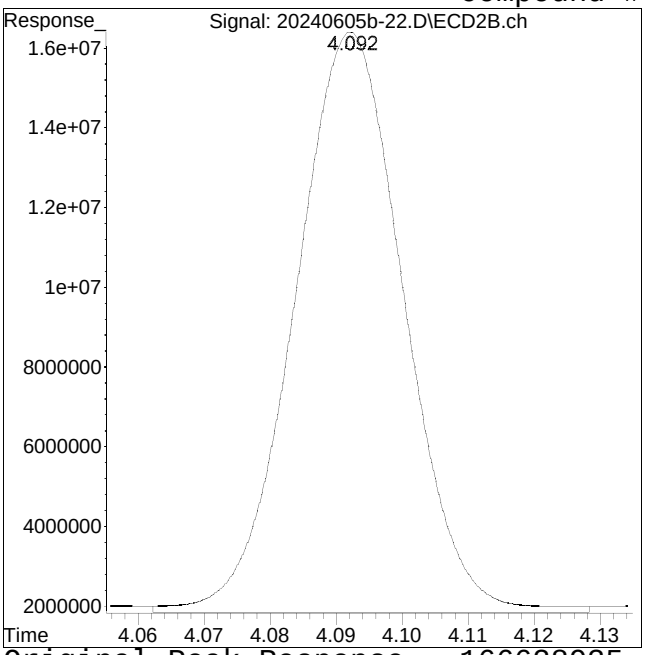
Manual Peak Response = 108302267 M4

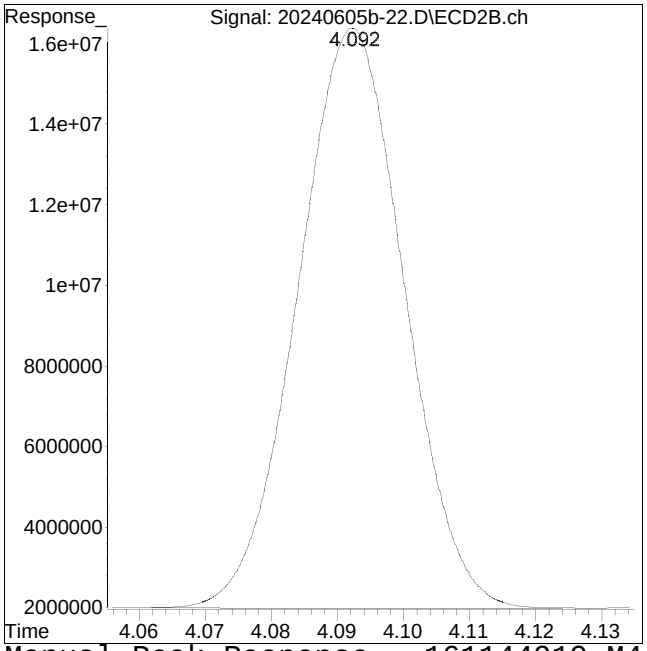
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #47: Aldrin #2



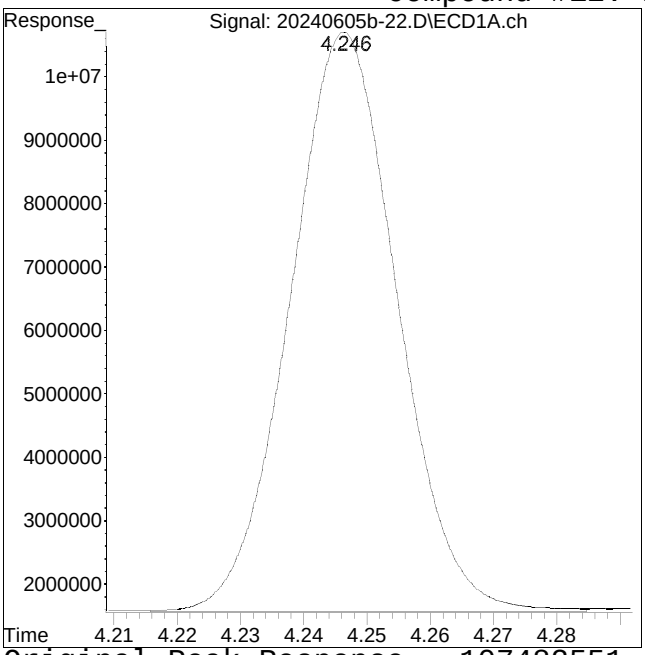


Original Peak Response = 166628935 Manual Peak Response = 161144919 M4
M4 = Poor automated baseline construction.

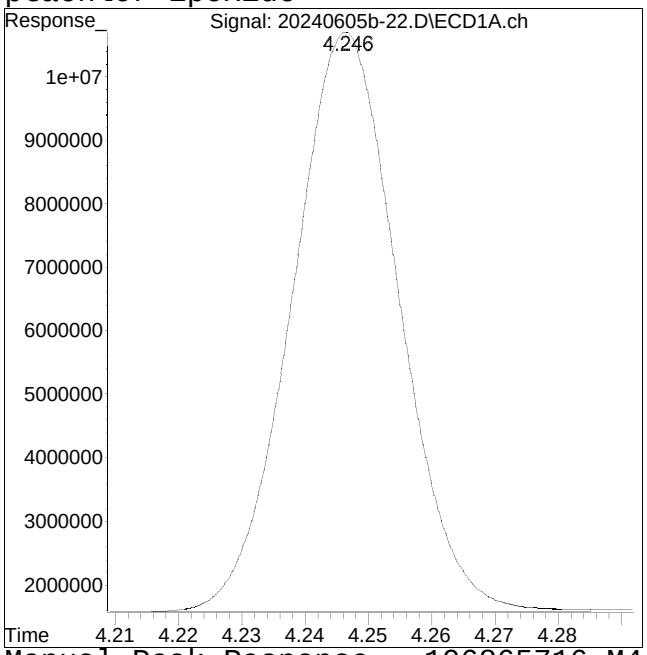
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #12: Heptachlor Epoxide



Original Peak Response = 107482551



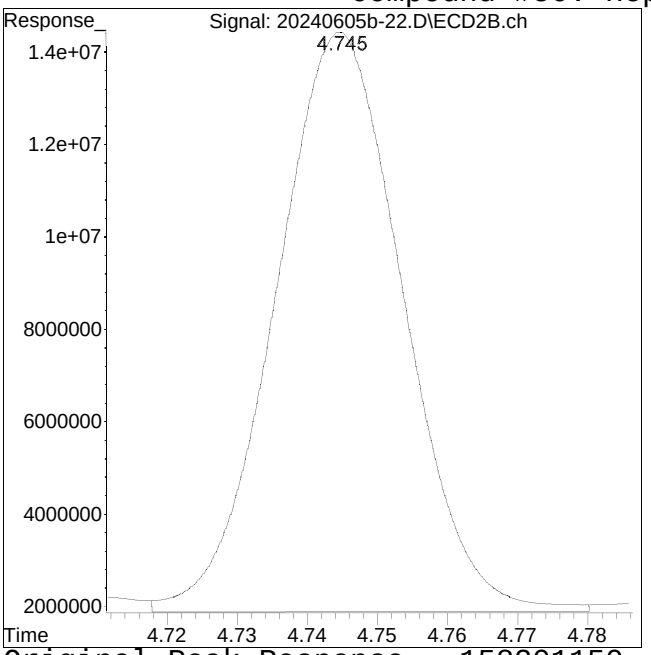
Manual Peak Response = 106865716 M4

M4 = Poor automated baseline construction.

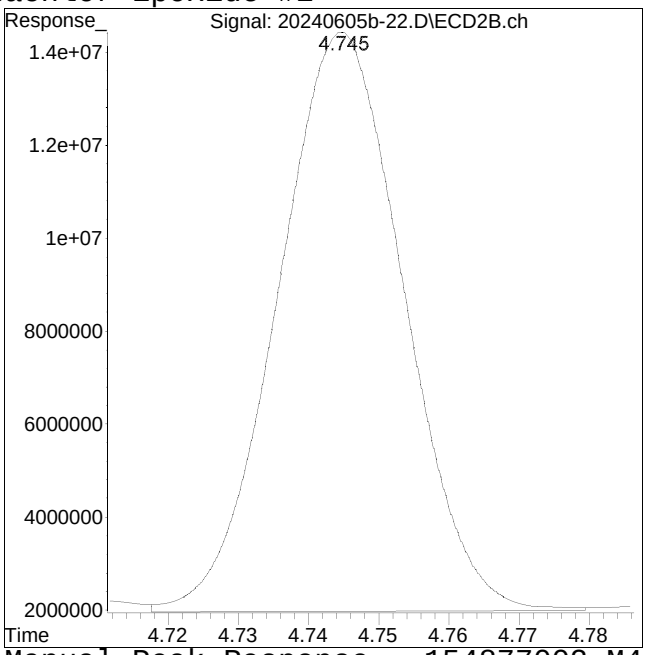
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 158201150



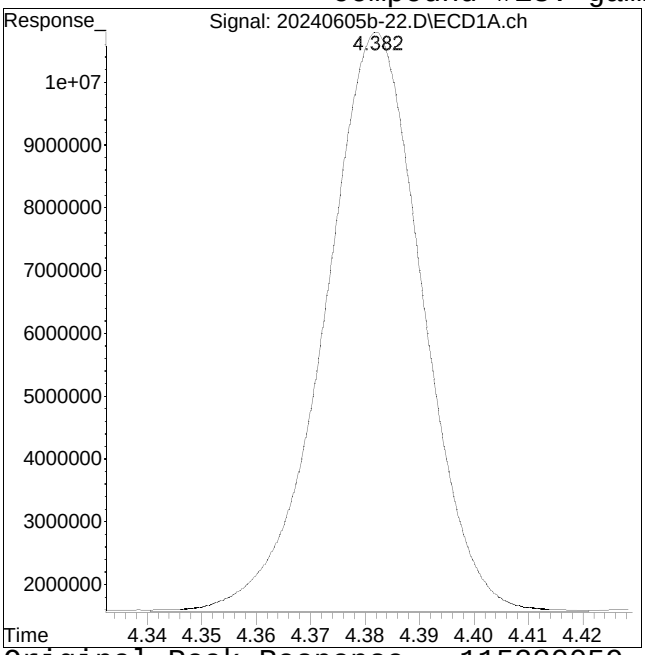
Manual Peak Response = 154877002 M4

M4 = Poor automated baseline construction.

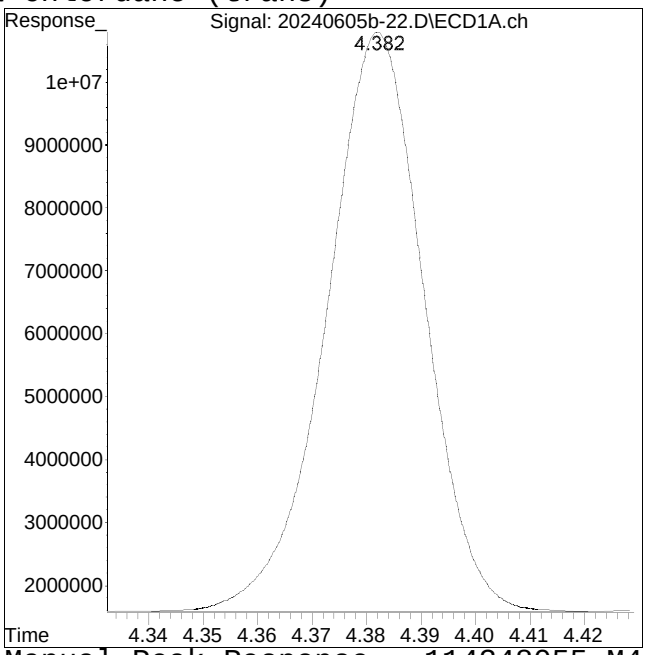
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 115230059



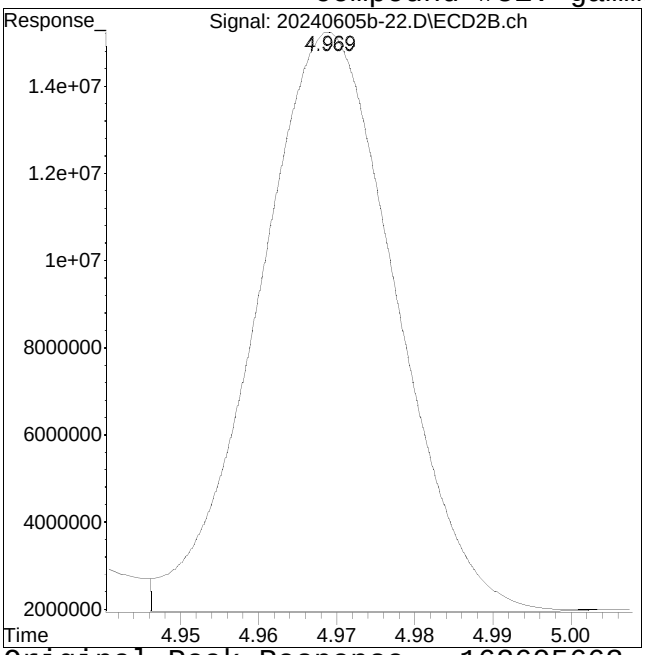
Manual Peak Response = 114348055 M4

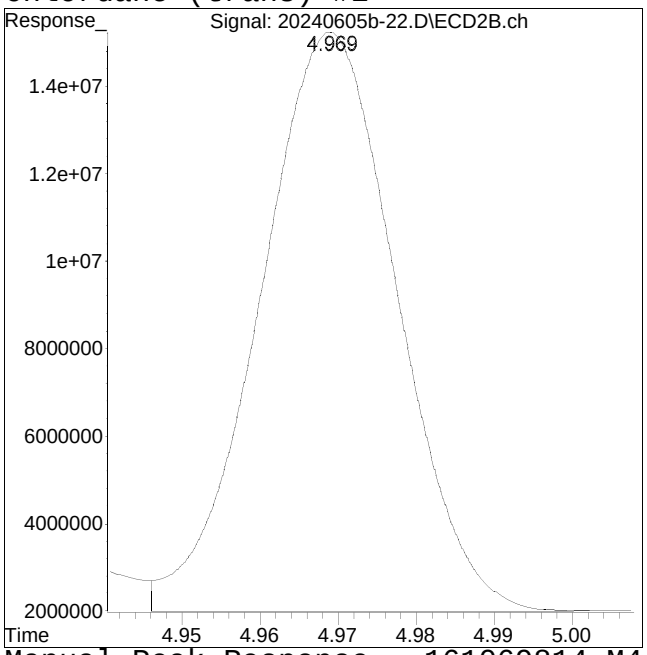
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #51: gamma-Chlordane (trans) #2



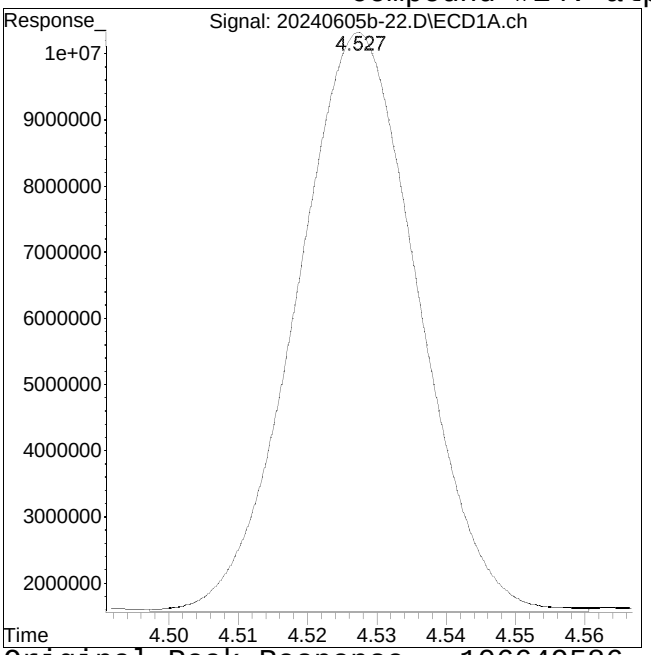


Original Peak Response = 162605663 Manual Peak Response = 161069814 M4
M4 = Poor automated baseline construction.

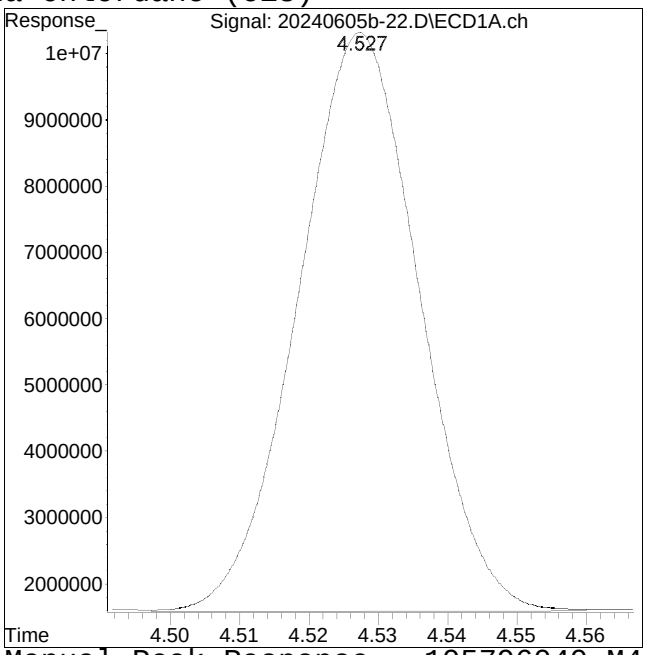
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 106649586



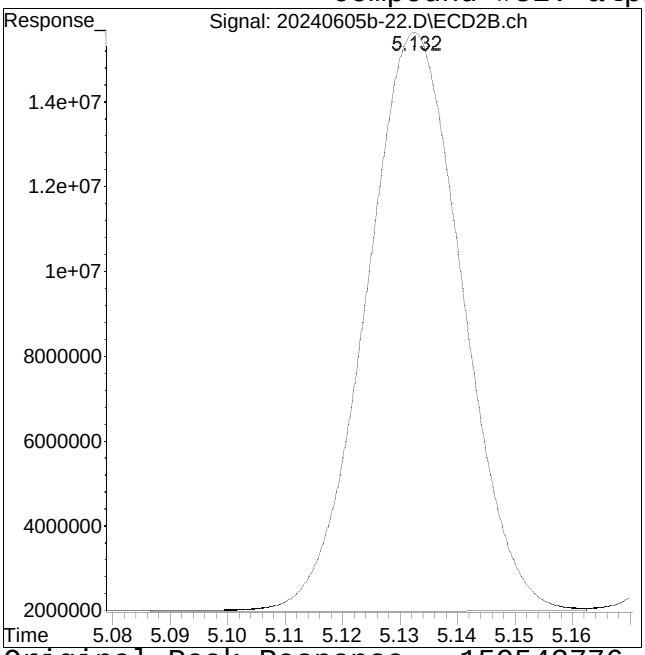
Manual Peak Response = 105796040 M4

M4 = Poor automated baseline construction.

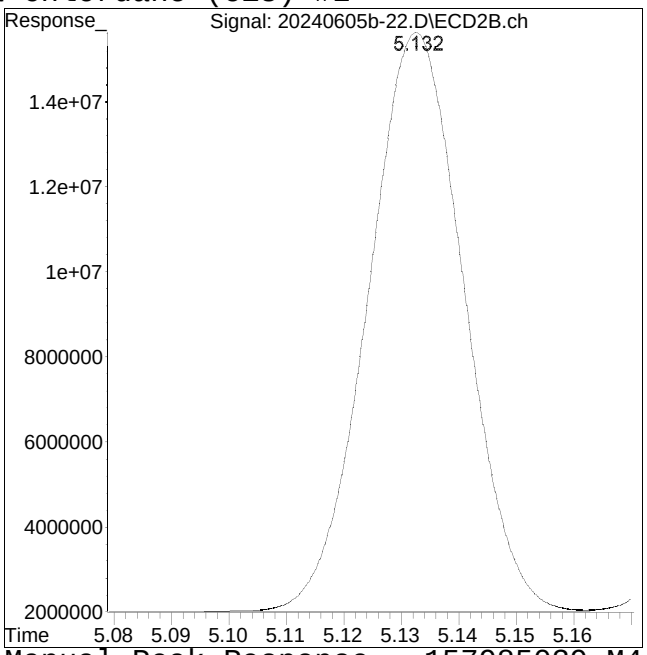
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 159542776



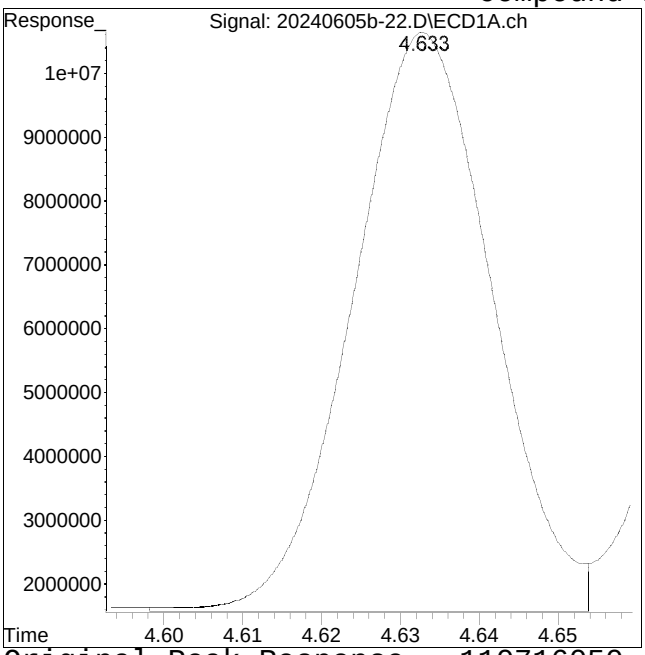
Manual Peak Response = 157985039 M4

M4 = Poor automated baseline construction.

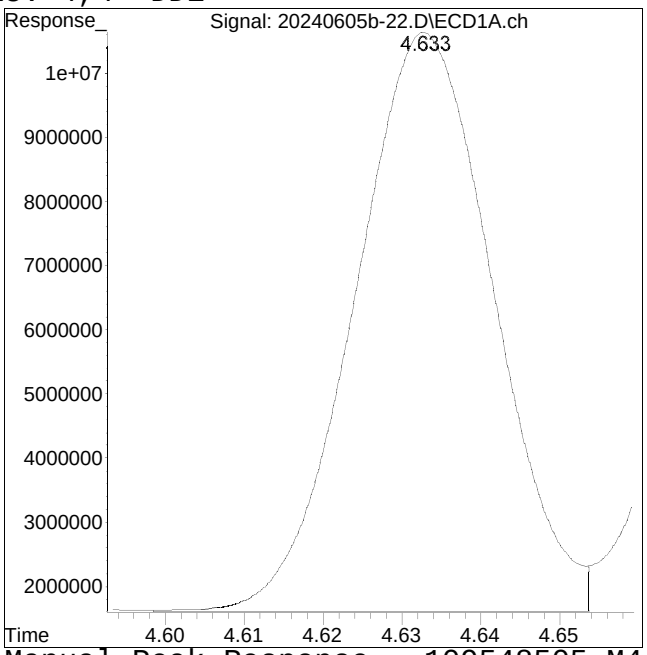
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #15: 4,4'-DDE



Original Peak Response = 110716050



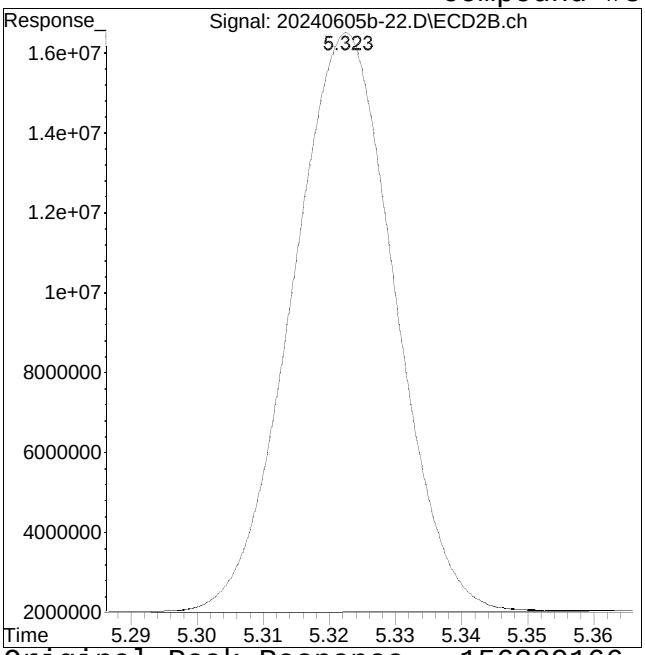
Manual Peak Response = 109548505 M4

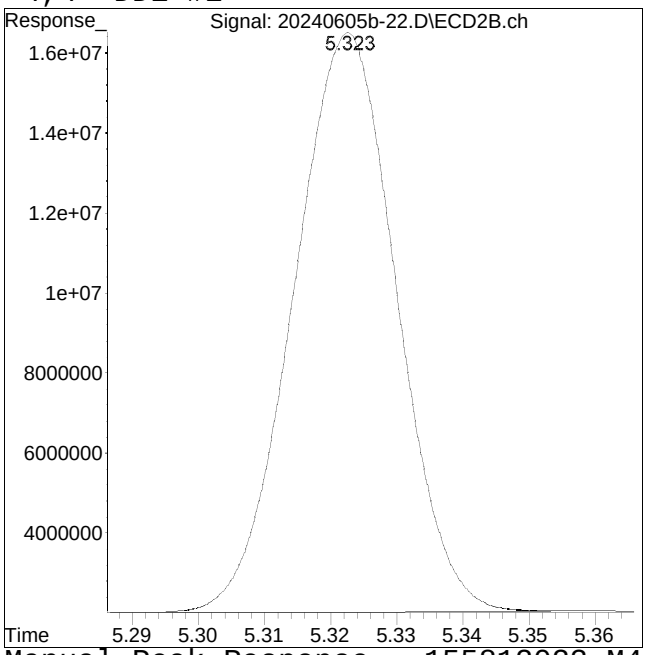
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #53: 4,4'-DDE #2



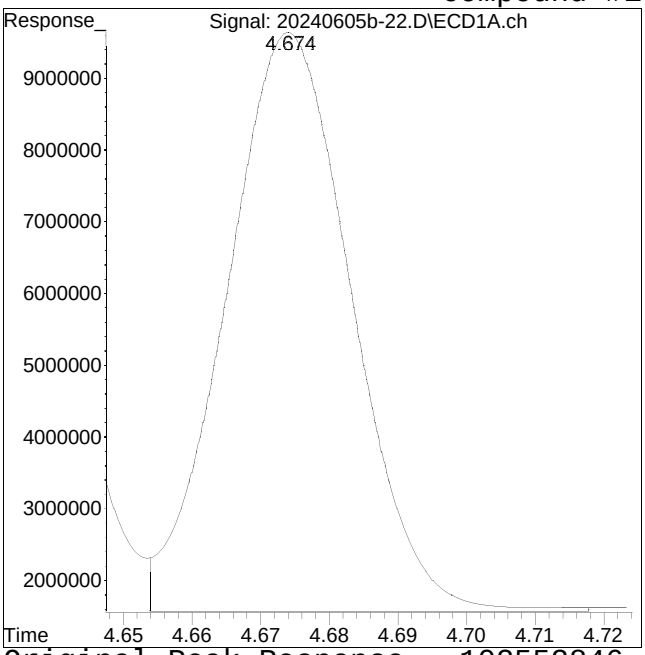


Original Peak Response = 156389166 Manual Peak Response = 155812023 M4
M4 = Poor automated baseline construction.

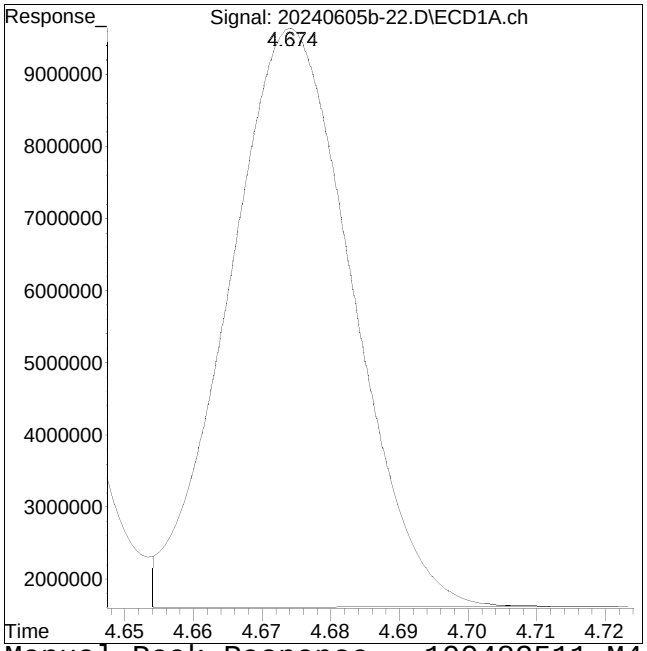
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #16: Endosulfan I



Original Peak Response = 102552846



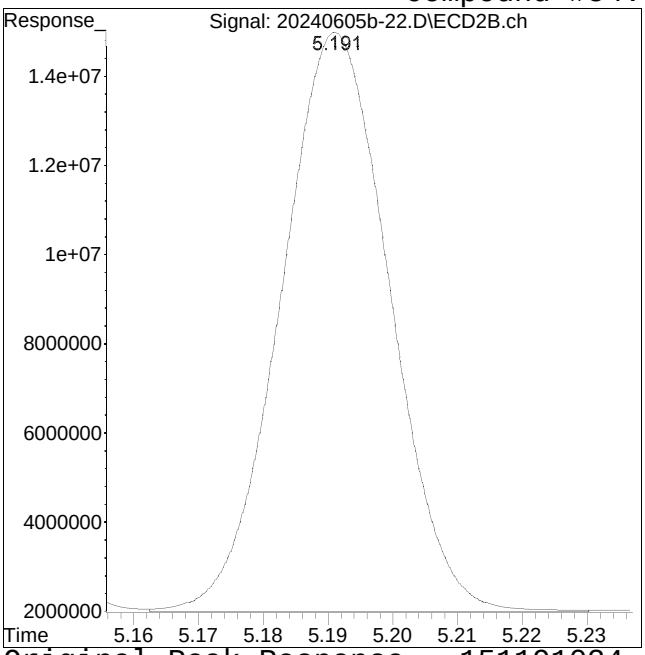
Manual Peak Response = 100483511 M4

M4 = Poor automated baseline construction.

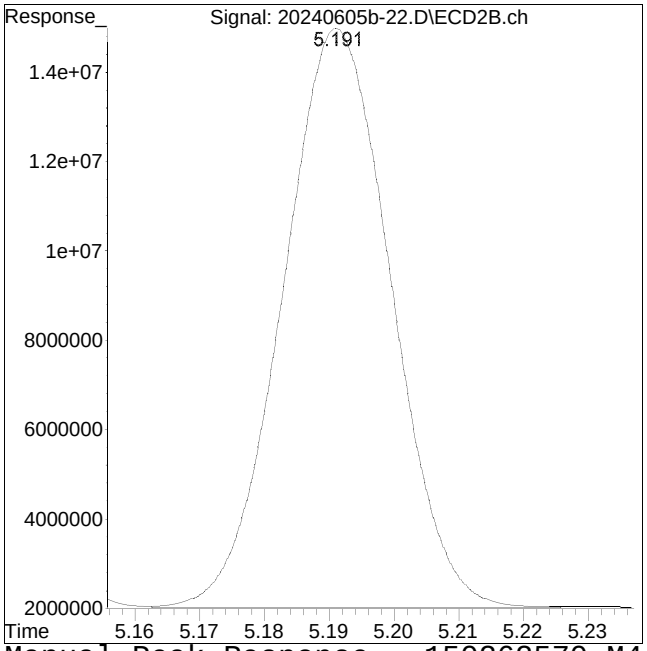
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #54: Endosulfan I #2



Original Peak Response = 151191024



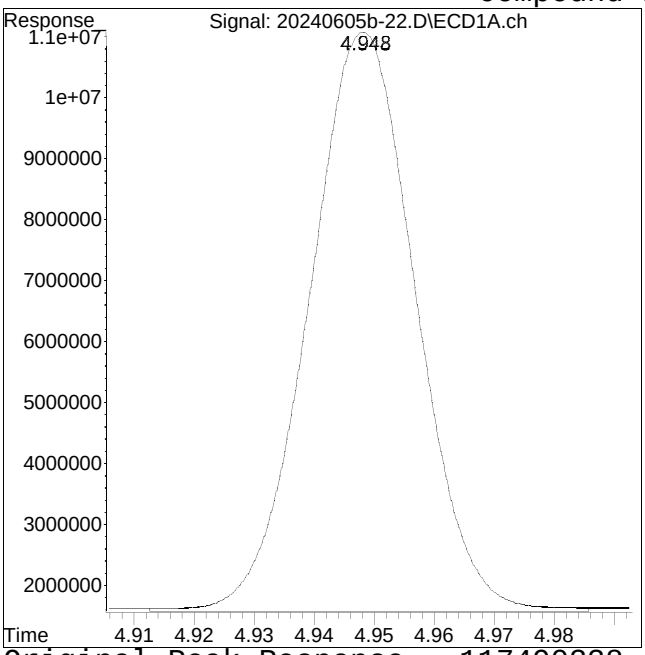
Manual Peak Response = 150262570 M4

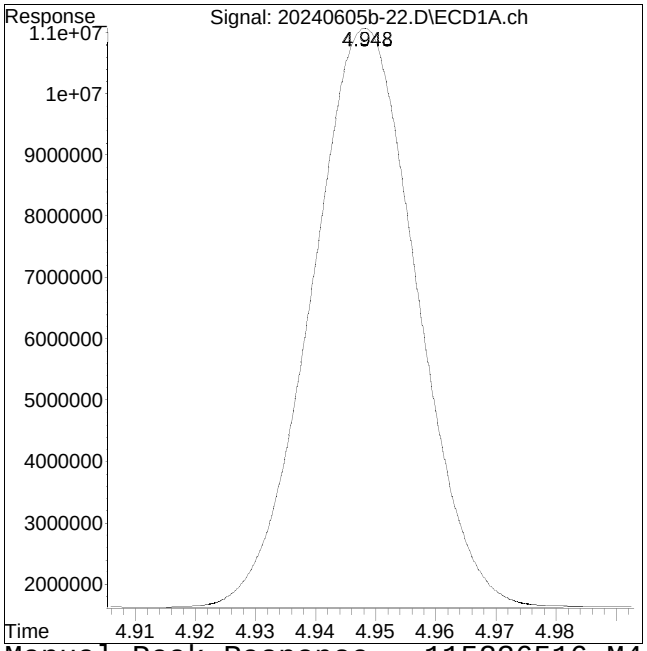
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #17: Dieldrin



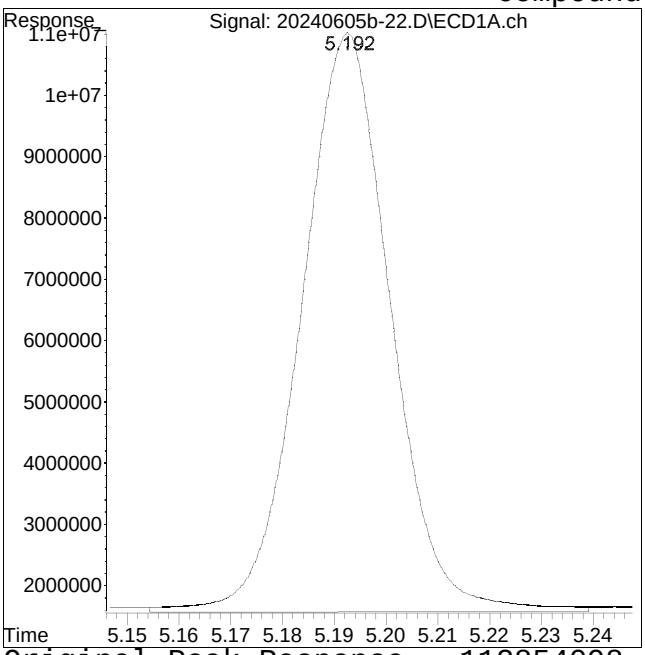


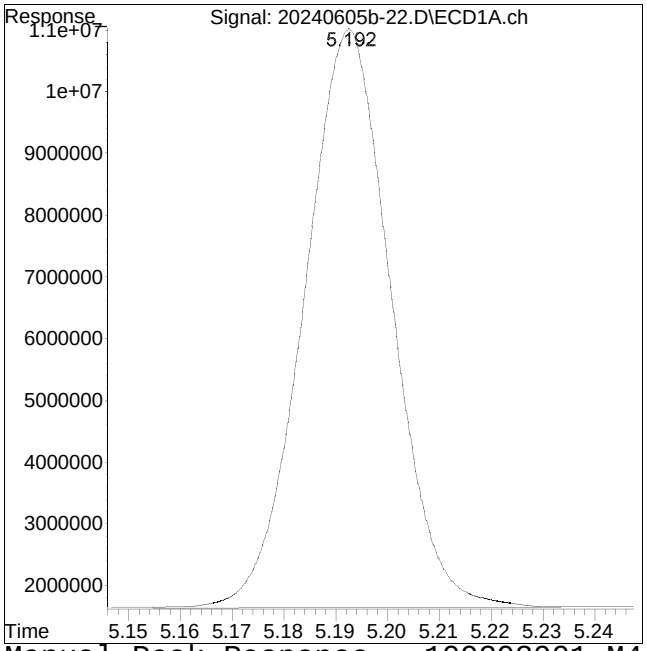
Original Peak Response = 117490338 Manual Peak Response = 115236516 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #18: Endrin



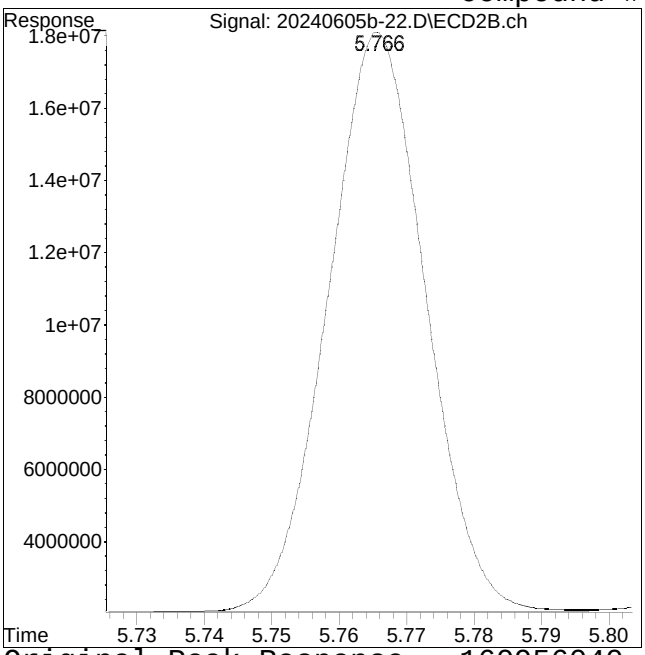


Original Peak Response = 112854098 Manual Peak Response = 109393901 M4
M4 = Poor automated baseline construction.

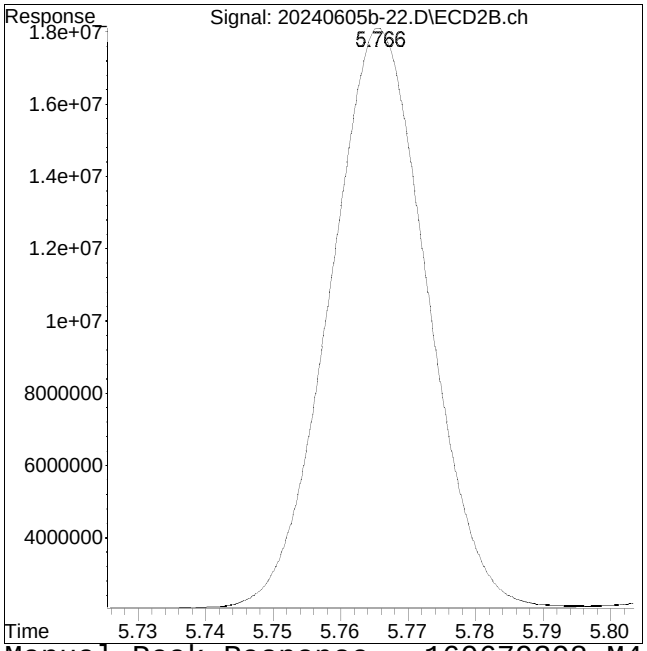
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #56: Endrin #2



Original Peak Response = 160956040

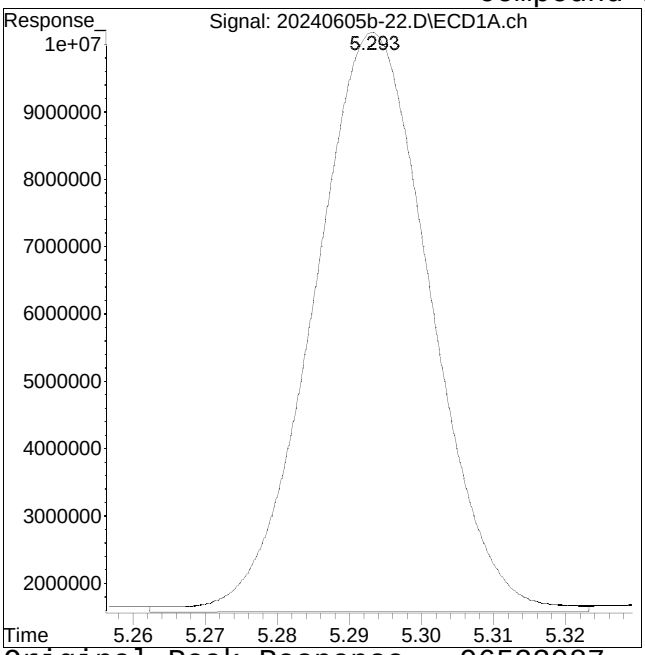


Manual Peak Response = 160679398 M4
M4 = Poor automated baseline construction.

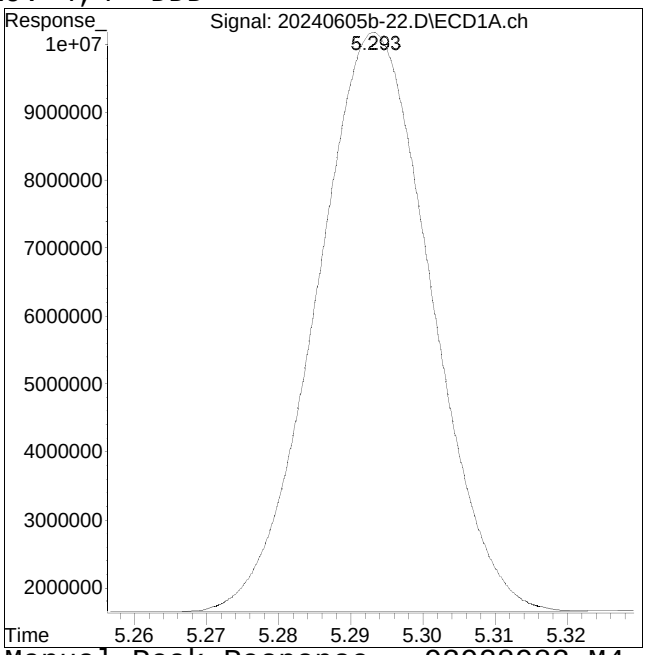
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #19: 4,4'-DDD



Original Peak Response = 96523987



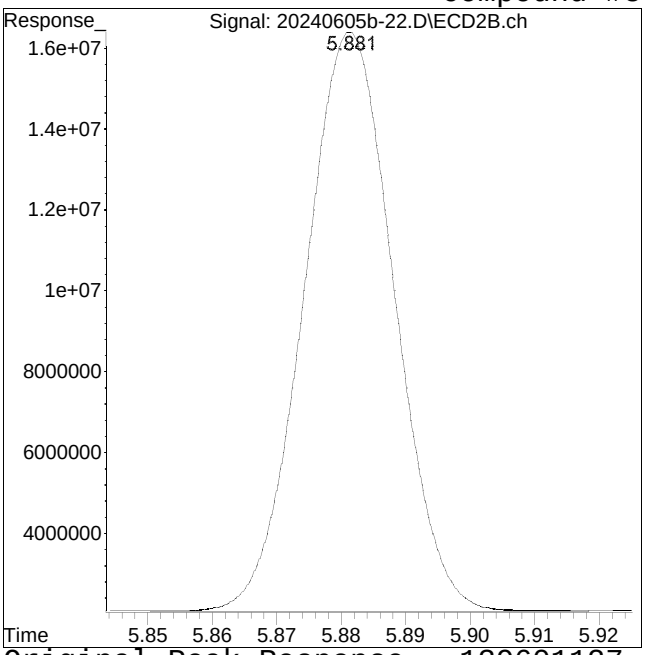
Manual Peak Response = 93928982 M4

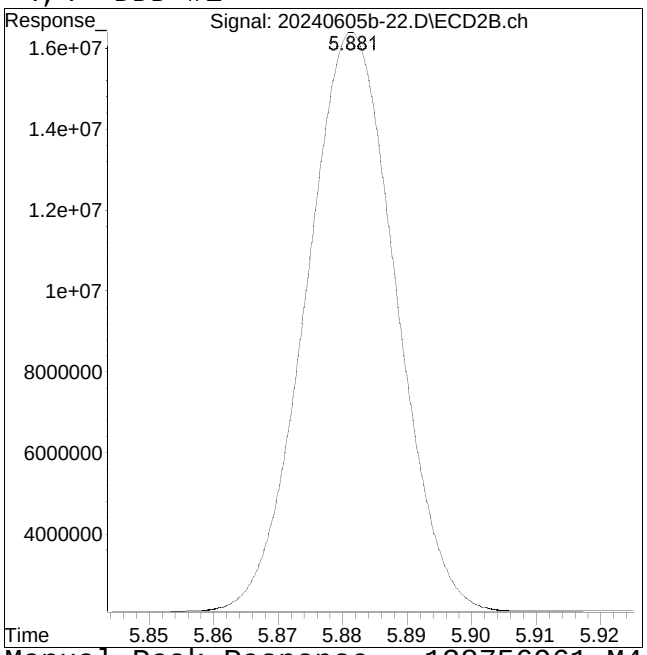
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #57: 4,4'-DDD #2



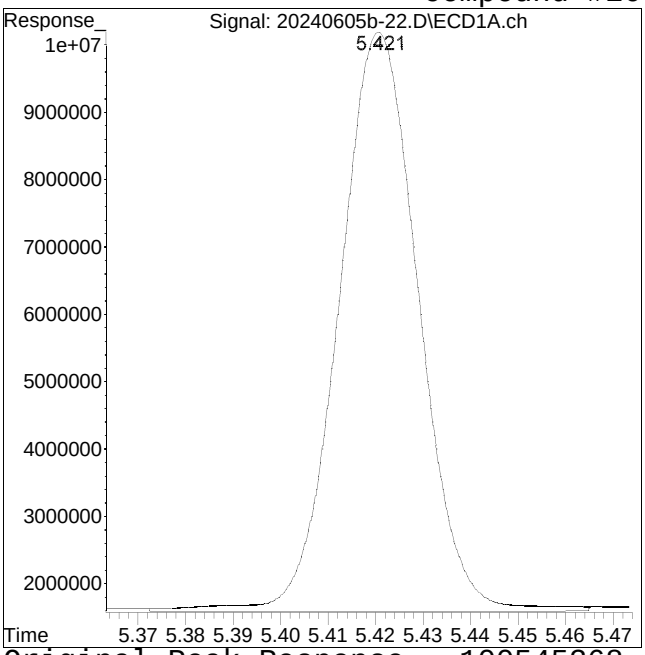


Original Peak Response = 139601127 Manual Peak Response = 138756961 M4
M4 = Poor automated baseline construction.

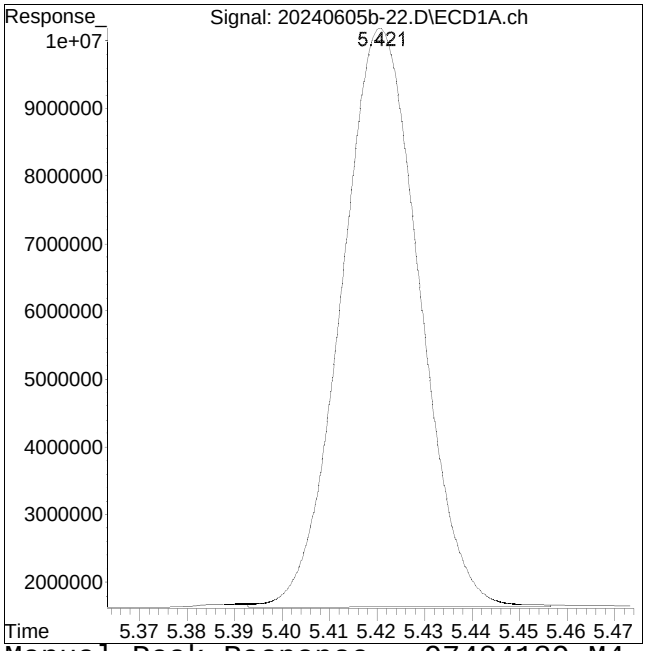
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #20: Endosulfan II



Original Peak Response = 100545368



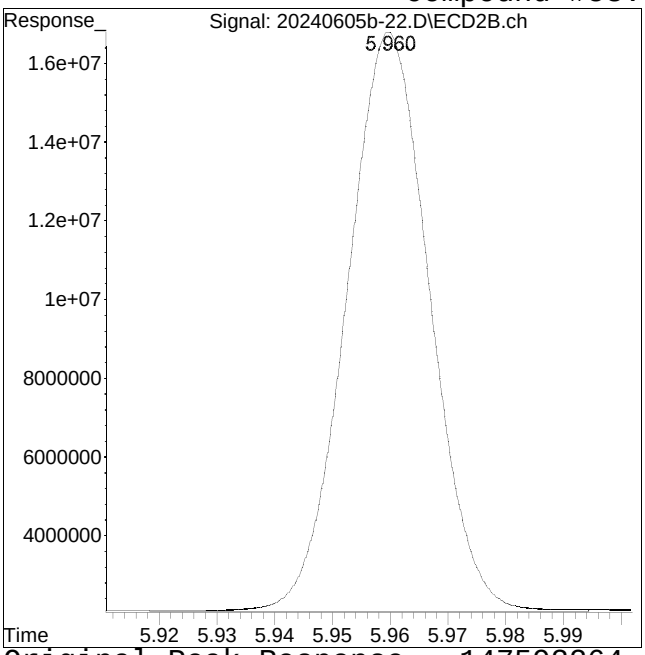
Manual Peak Response = 97484189 M4

M4 = Poor automated baseline construction.

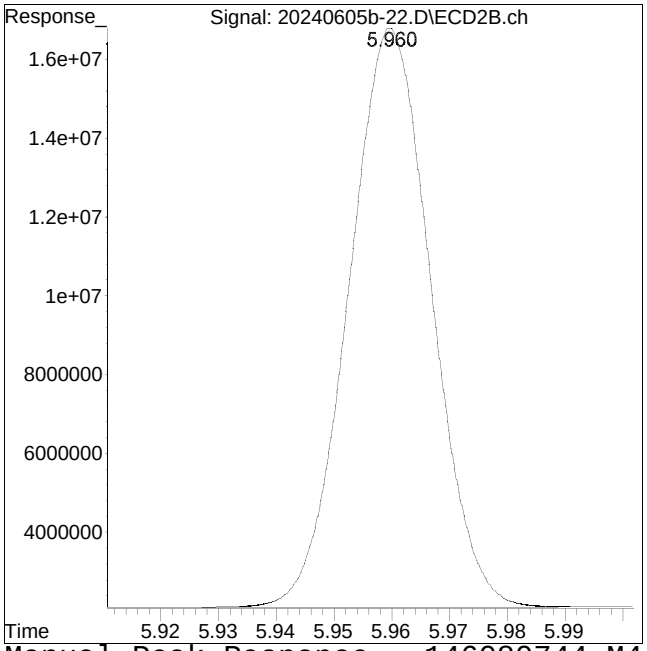
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #58: Endosulfan II #2



Original Peak Response = 147592264



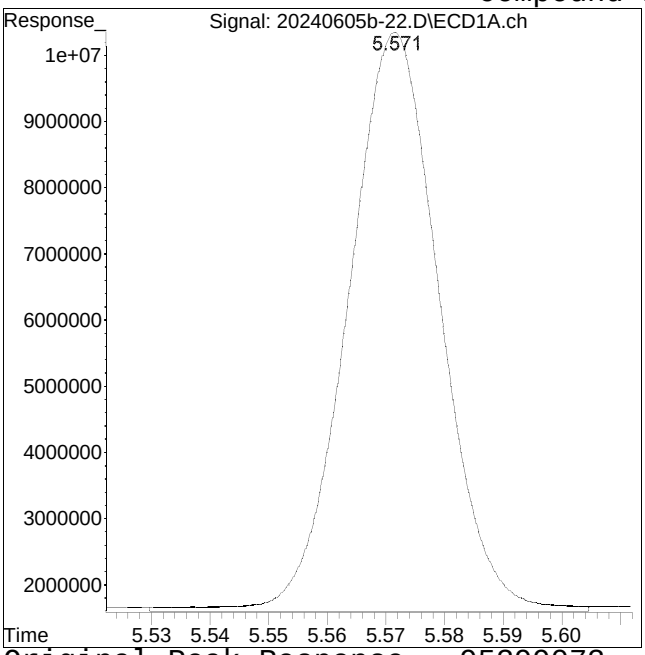
Manual Peak Response = 146080744 M4

M4 = Poor automated baseline construction.

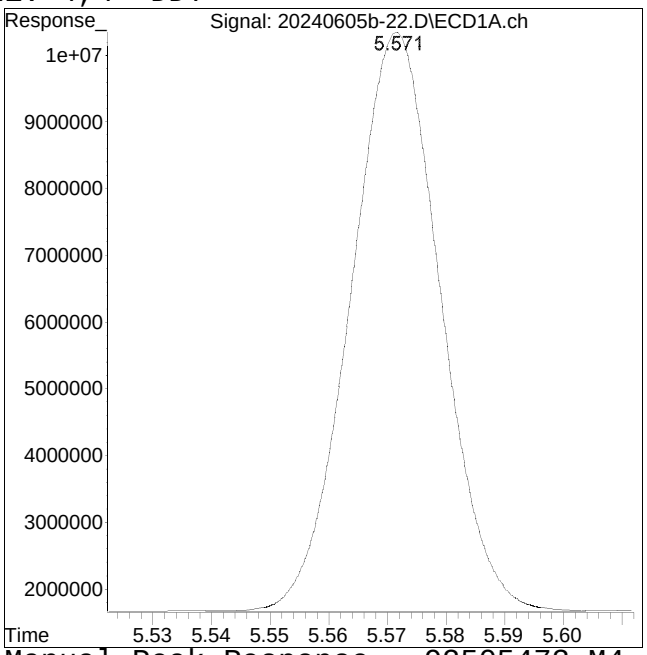
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #21: 4,4'-DDT



Original Peak Response = 95399073



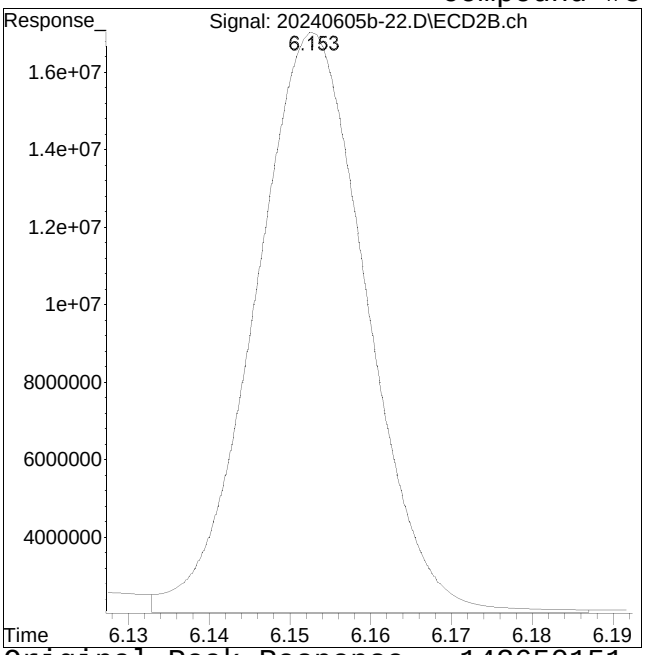
Manual Peak Response = 92505473 M4

M4 = Poor automated baseline construction.

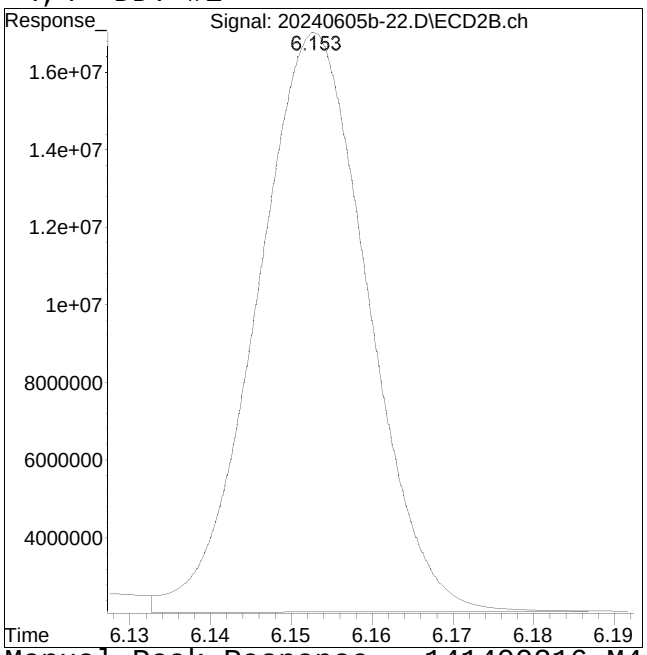
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #59: 4,4'-DDT #2



Original Peak Response = 142650151

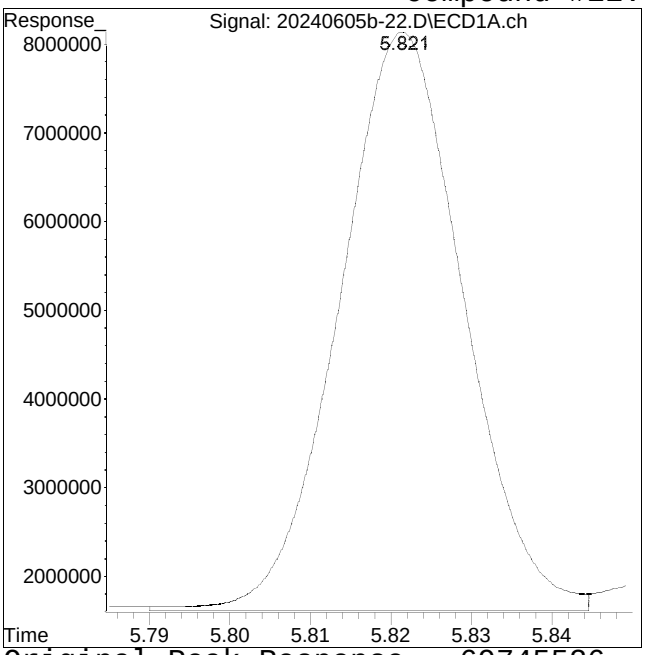


Manual Peak Response = 141400216 M4
M4 = Poor automated baseline construction.

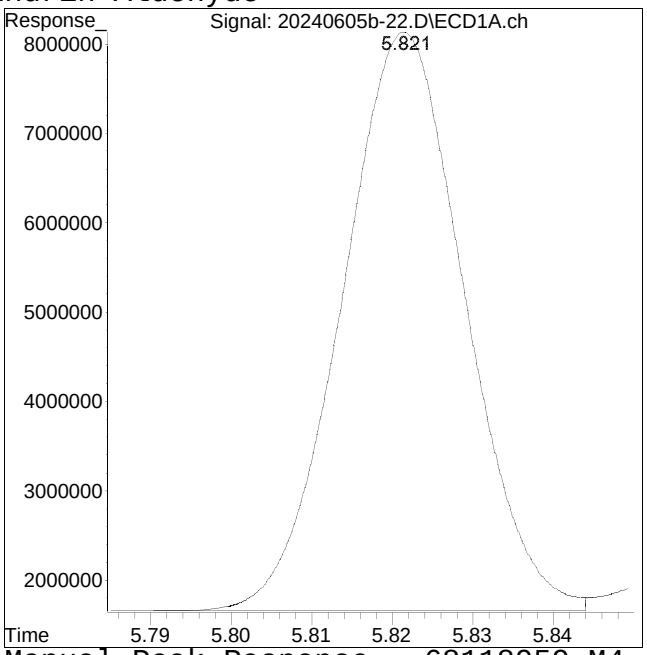
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #22: Endrin Aldehyde



Original Peak Response = 69745526



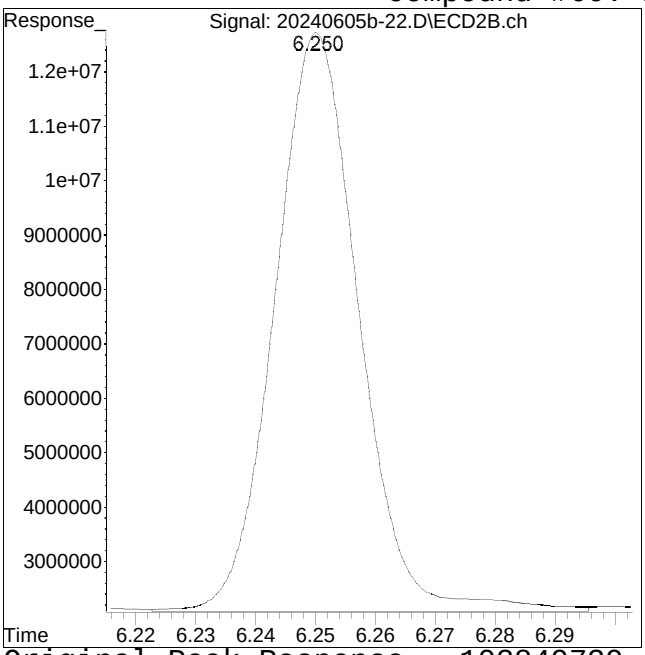
Manual Peak Response = 68118959 M4

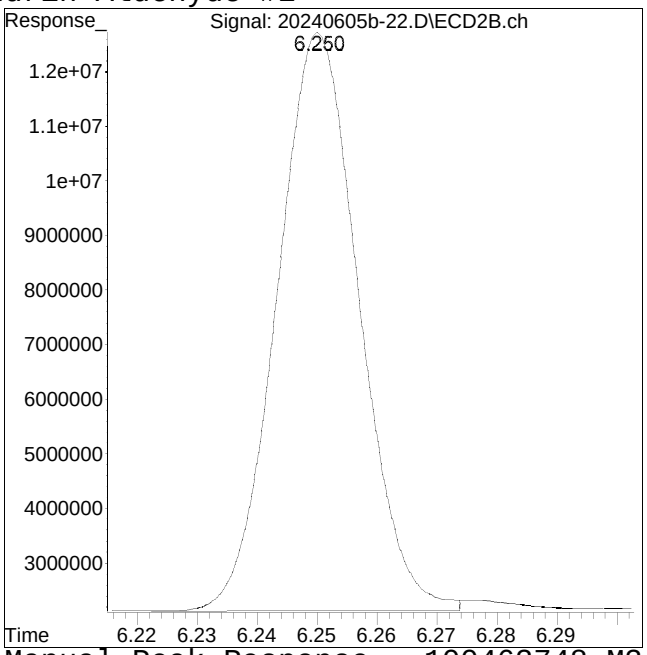
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #60: Endrin Aldehyde #2



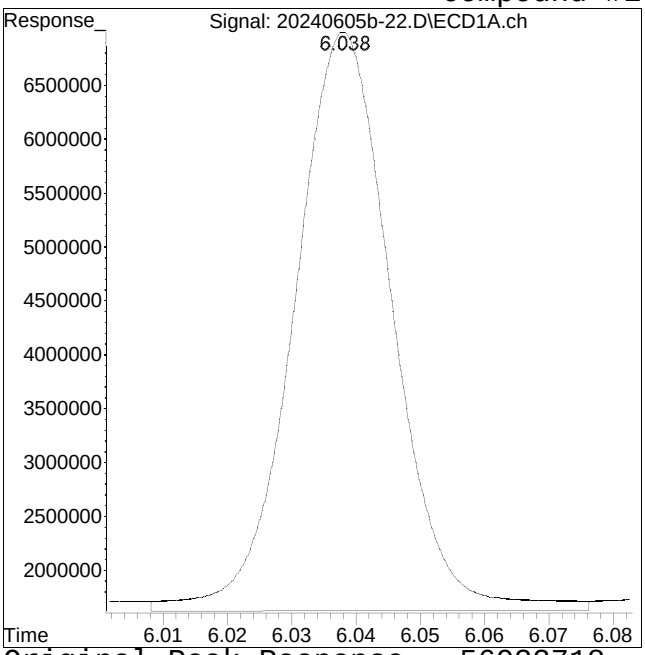


Original Peak Response = 103849739 Manual Peak Response = 100463748 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

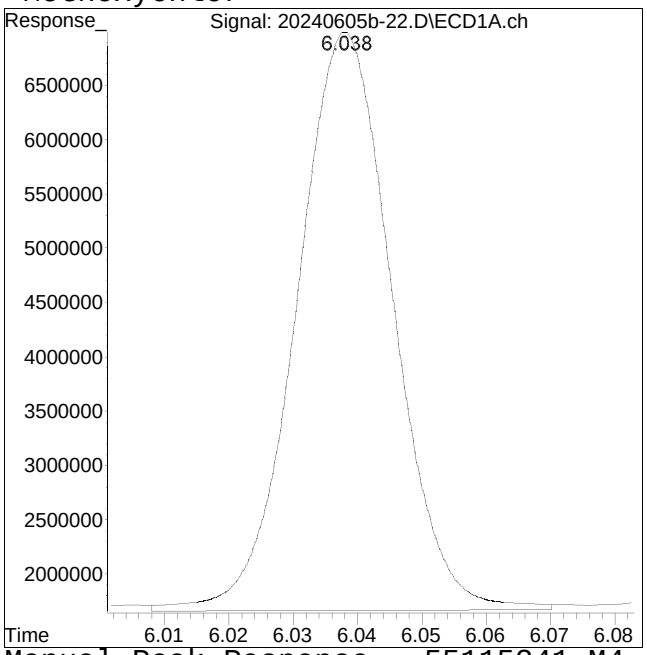
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #23: Methoxychlor



Original Peak Response = 56932718



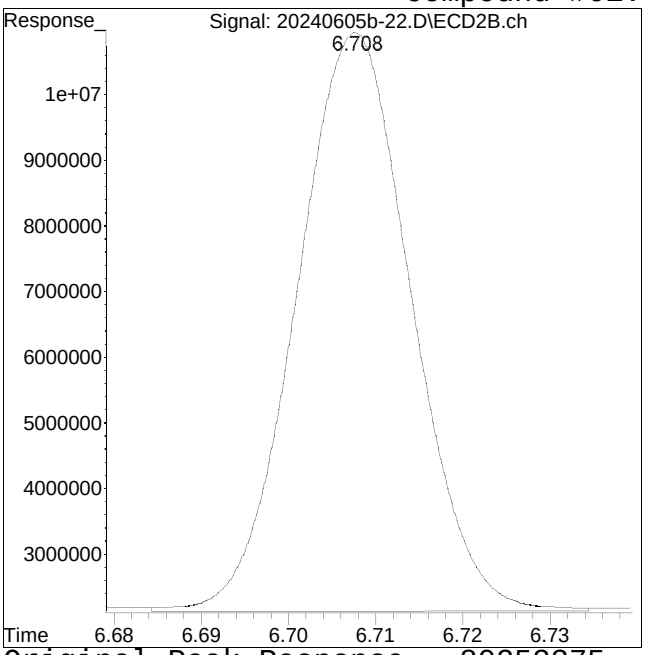
Manual Peak Response = 55115241 M4

M4 = Poor automated baseline construction.

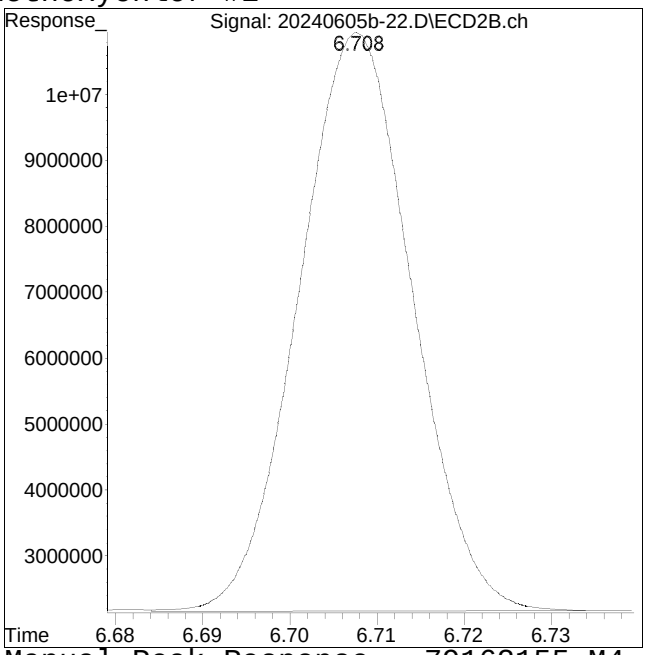
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #61: Methoxychlor #2



Original Peak Response = 80253375



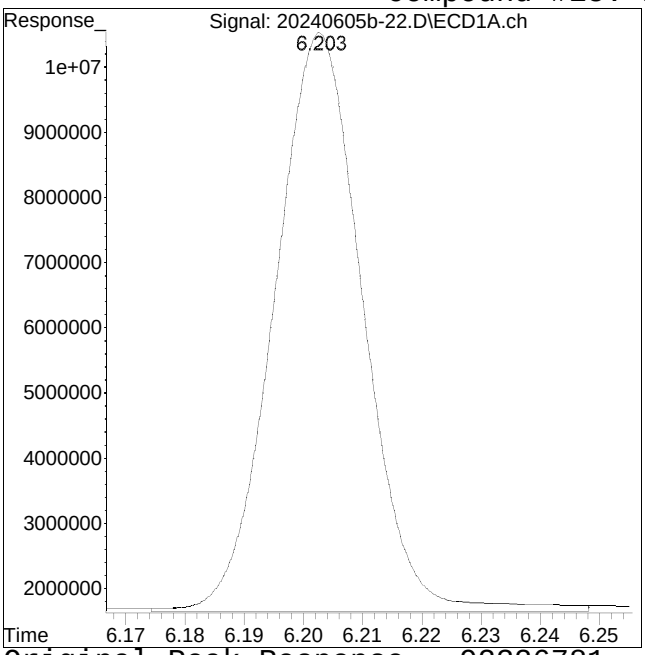
Manual Peak Response = 79162155 M4

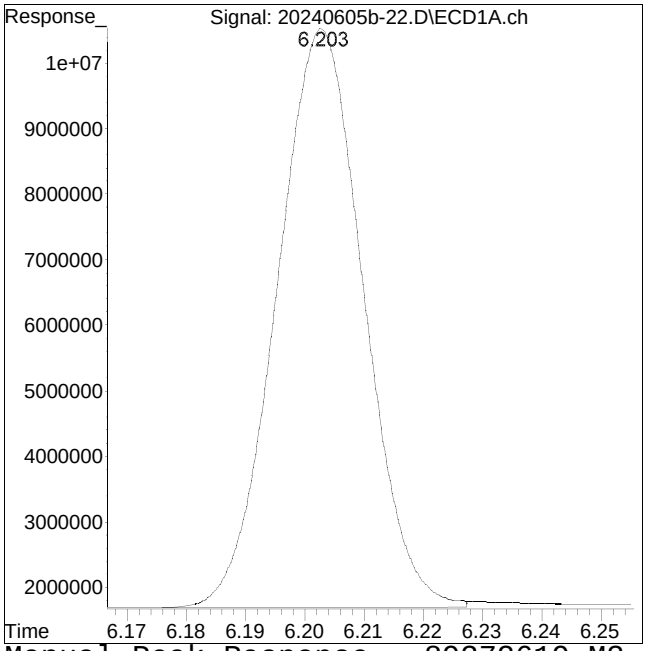
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #25: Endosulfan Sulfate



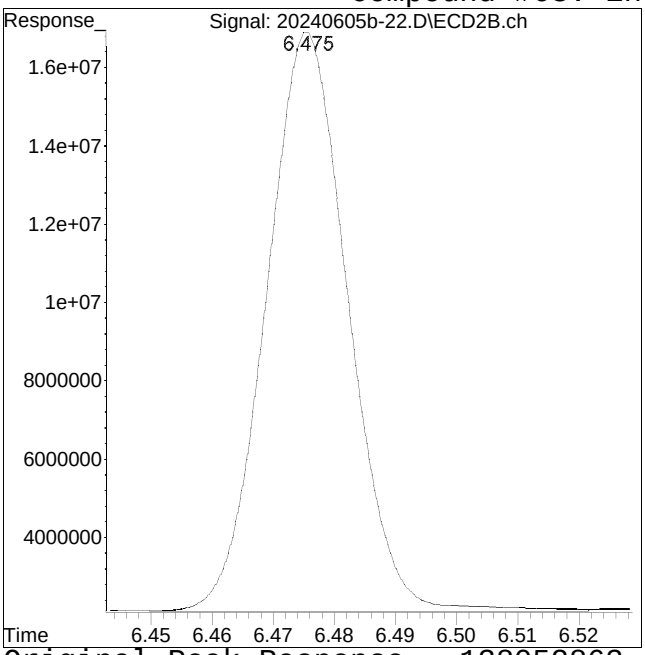


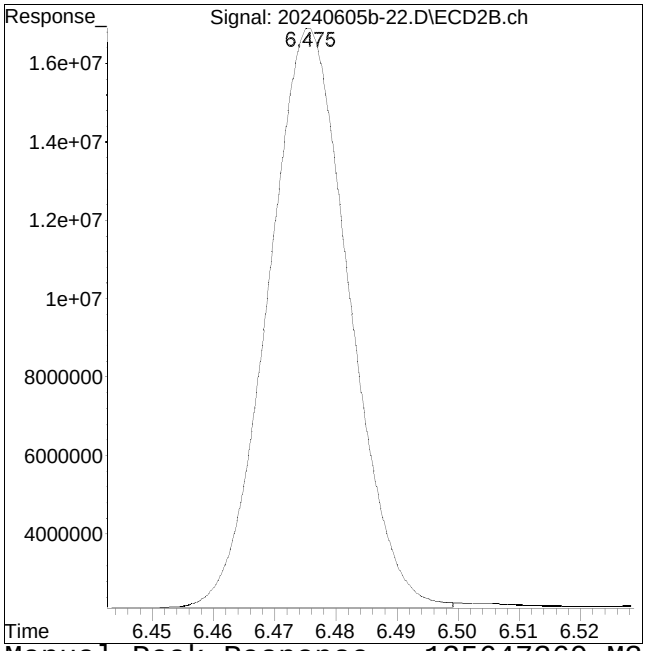
Original Peak Response = 92326781 Manual Peak Response = 89372619 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #63: Endosulfan Sulfate #2



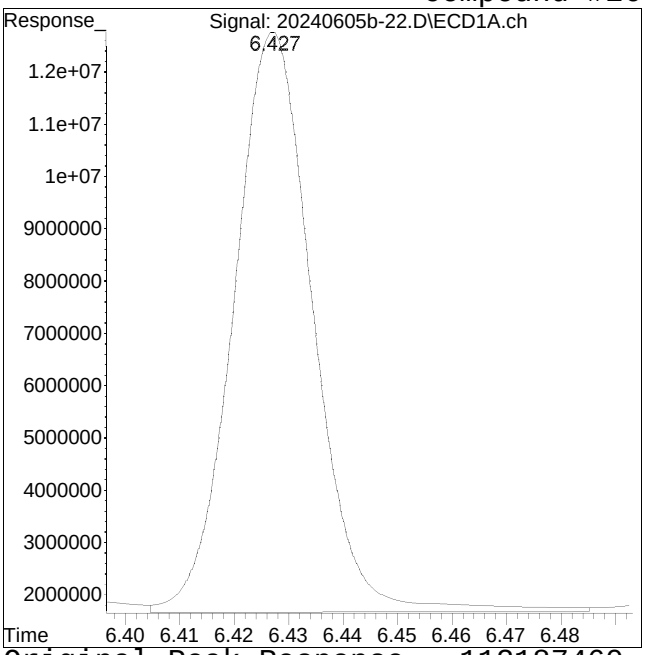


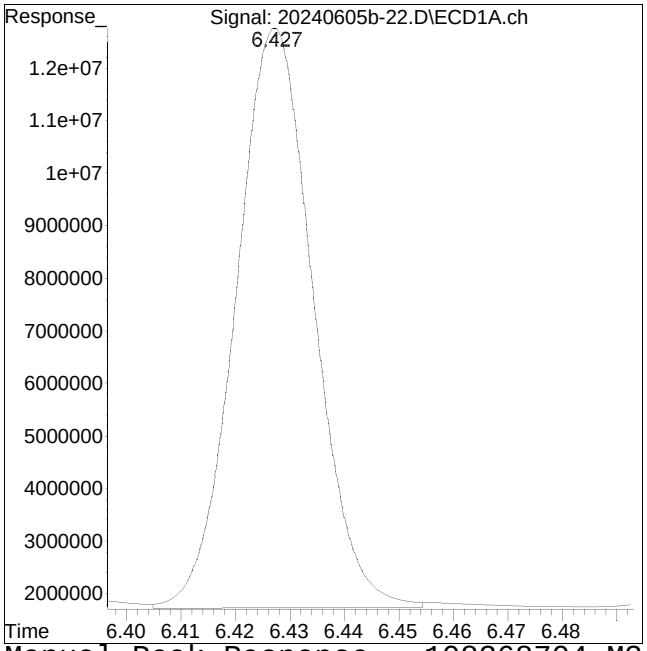
Original Peak Response = 138052863 Manual Peak Response = 135647360 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #26: Endrin Ketone



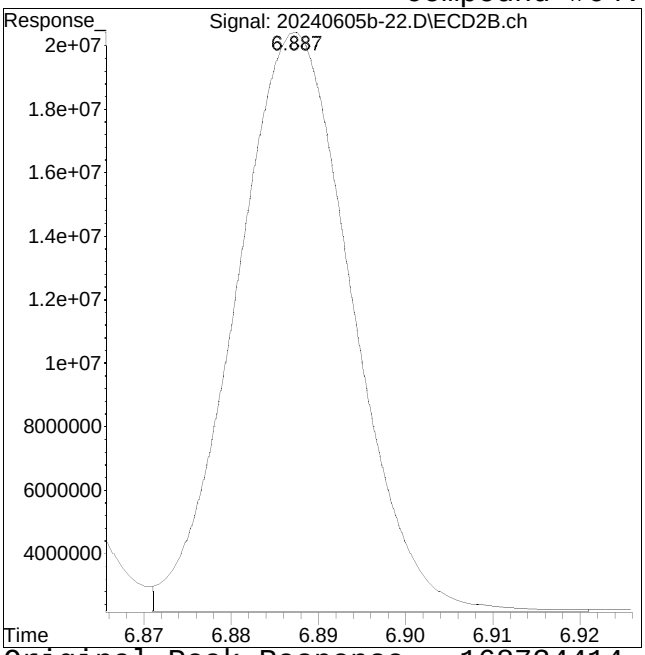


Original Peak Response = 112187460 Manual Peak Response = 108368704 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

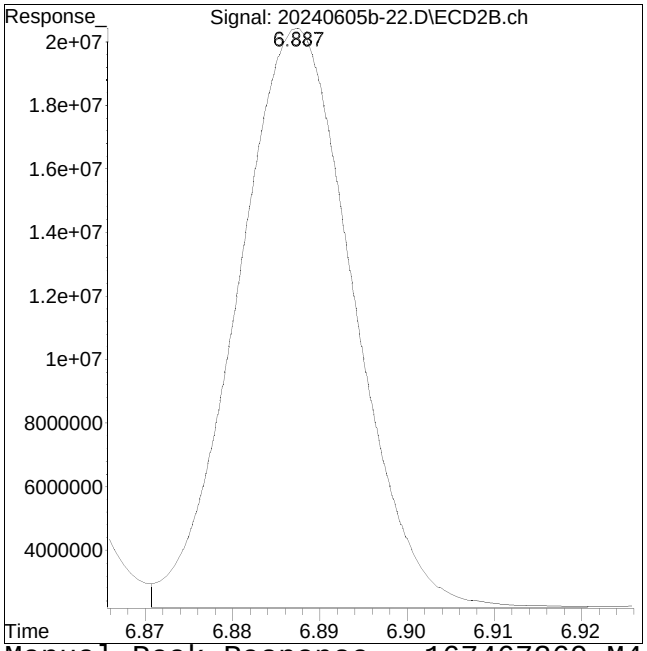
Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #64: Endrin Ketone #2



Original Peak Response = 168734414



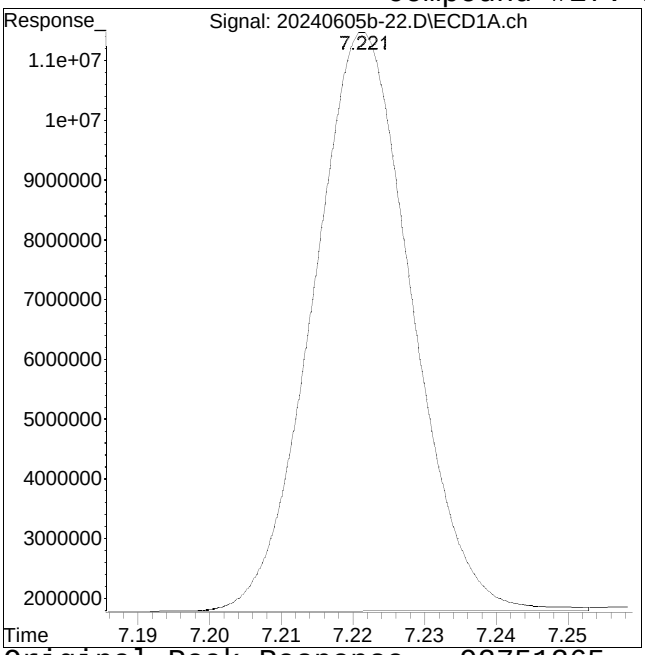
Manual Peak Response = 167467260 M4

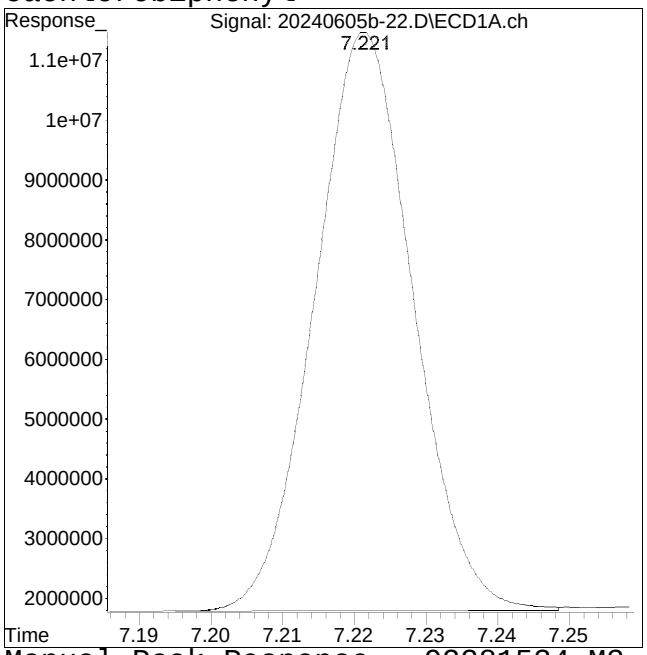
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #27: Decachlorobiphenyl



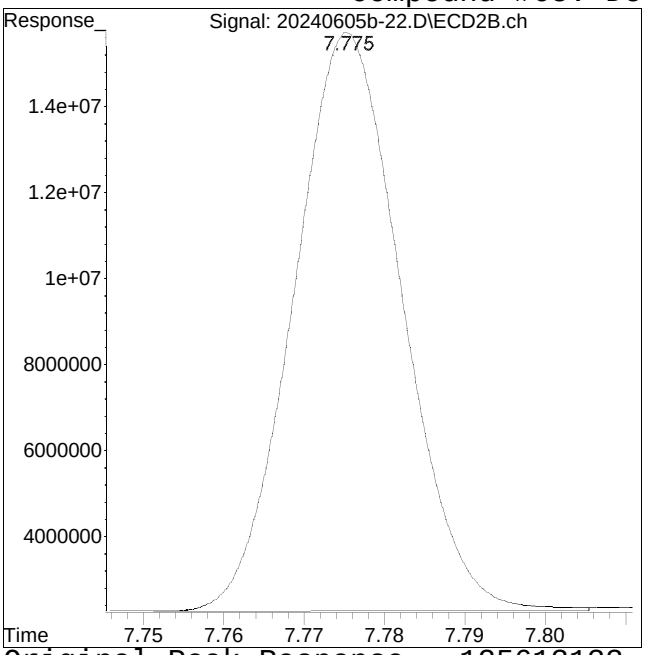


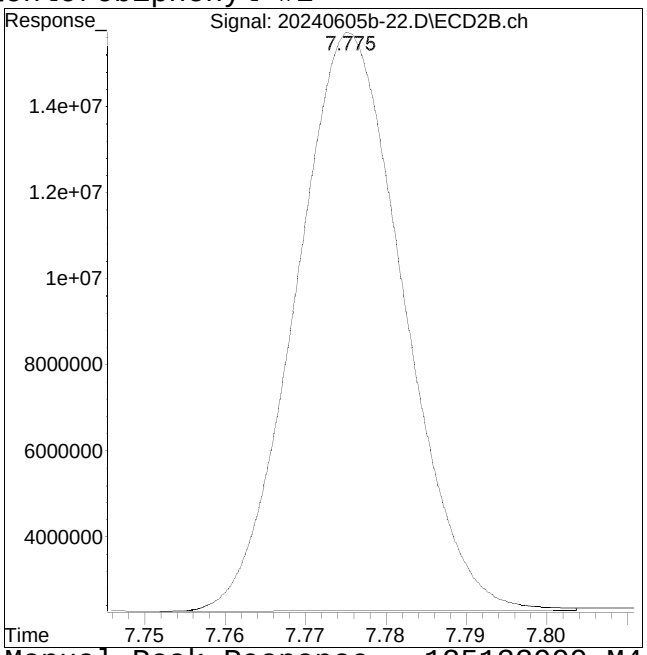
Original Peak Response = 92751265 Manual Peak Response = 92281534 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest20\2024\240605QMethod : pest20_2024_05_14_ugL_IC
Data File : 20240605b-22.D Operator : pest20:jag
Date Inj'd : 6/5/2024 23:29 Instrument : PEST 20
Sample : WG1929733-5,42,, msd Quant Date : 6/6/2024 5:50 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 125613133 Manual Peak Response = 125133999 M4
M4 = Poor automated baseline construction.

Calculation of PCB Aroclors & Pesticides

Aqueous Concentration Formula:
Amt * DF*(Vt/Vp)*(1000/Vo)*(Ve/1000)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Vo = Volume of Sample (mL)
Ve = Extraction Lab Final Volume (mL)

Soil Concentration Formula:
Amt * DF * (Vt/Vp)*(1000/Wt)*(Ve/1000)* (100/TS)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Wt = Weight of Sample (g)
Ve = Extraction Lab Final Volume (mL)
TS = Total Solids

Pest_20 05/14/24

Dep.: PEST Method

Inst: Pest_20 GC: pest

Date: **05/14/24**

Run: **ical** Seq: ical

IS: pp11530

Vial	Data File	Sample CCAL	notes	screen	initials
1	20240514i-01	Blank,42e,,pp 11530			
2	20240514i-02	pem-01,42e,,pp 11529			PEG 5/17
3	20240514i-03	il1pest,42e,,pp 11585 L0.0005			PEG 5/17
4	20240514i-04	il2pest,42e,,pp 11584 L0.001			PEG 5/17
5	20240514i-05	il3pest,42e,,pp 11583 L0.002			PEG 5/17
6	20240514i-06	il4pest,42e,,pp 11582 L0.003			PEG 5/17
7	20240514i-07	il5pest,42e,,pp 11581 L0.004			PEG 5/17
8	20240514i-08	il7pest,42e,,pp 11580 L0.01			PEG 5/17
9	20240514i-09	il8pest,42e,,pp 11579 L0.05			PEG 5/17
10	20240514i-10	il9pest,42e,,pp 11578 L0.1			PEG 5/17
11	20240514i-11	il10pest,42e,,pp 11577 L0.2			PEG 5/17
12	20240514i-12	il11pest,42e,,pp 11576 L0.4			PEG 5/17
13	20240514i-13	cicvpest,42e,,pp 11536 L0.05ICV			PEG 5/17
14	20240514i-14	il3chlor,42e,,pp 11509 L0.01			PEG 5/17
15	20240514i-15	il4chlor,42e,,pp 11508 L0.02			PEG 5/17
16	20240514i-16	il5chlor,42e,,pp 11507 L0.1			PEG 5/17
17	20240514i-17	il7chlor,42e,,pp 11506 L0.5			PEG 5/17
18	20240514i-18	il8chlor,42e,,pp 11505 L1.0			PEG 5/17
19	20240514i-19	il9chlor,42e,,pp 11504 L2.0			PEG 5/17
20	20240514i-20	il10chlor,42e,,pp 11549 L5.0	Not used		PEG 5/17
21	20240514i-21	cicvchlor,42e,,pp 11540 L1.0ICV			PEG 5/17
22	20240514i-22	il3tox,42e,,pp 11519 L0.02			PEG 5/17
23	20240514i-23	il4tox,42e,,pp 11518 L0.1			PEG 5/17
24	20240514i-24	il7tox,42e,,pp 11517 L1.0			PEG 5/17
25	20240514i-25	il8tox,42e,,pp 11516 L2.0			PEG 5/17
26	20240514i-26	il9tox,42e,,pp 11510 L5.0			PEG 5/17
27	20240514i-27	cicvtox,42e,,pp 11541 L2.0ICV			PEG 5/17

Dep.: PEST
Inst: Pest_20
Date: **06/05/24**
Run: **b**

Method
GC: pest

Seq: wg1930283
IS: pp11530

Vial	Data File	Sample	CCAL	notes	screen	initials
1	20240605b-01	blank				
2	20240605b-02	deg11573	18:45			JAG 6/5
3	20240605b-03	pest11595	20%			JAG 6/5
4	20240605b-04	chlor11540	15%			JAG 6/5
5	20240605b-05	tox11541	15%			JAG 6/5
6	20240605b-06	blank				
7	20240605b-07	WG1929737-1,42,, ct			PEG	
8	20240605b-08	WG1929737-2,42,, ct				
9	20240605b-09	WG1929737-3,42,, ct				
10	20240605b-10	L2429668-01,42,, ct				
11	20240605b-11	L2429956-05,42,, ct				
12	20240605b-12	L2430364-05,42,, ct				
13	20240605b-13	WG1929402-2,42,, rc				
14	20240605b-14	WG1929402-1,42,, rc				
15	20240605b-15	WG1929402-3,42,, rc				
16	20240605b-16	WG1929730-1,42,, 733 734				EJL 6/6
17	20240605b-17	WG1929730-2,42,, 733 734				EJL 6/6
18	20240605b-18	WG1929730-3,42,, 733 734				EJL 6/6
19	20240605b-19	L2430046-01,42,,				EJL 6/6
20	20240605b-20	L2430219-04,42,, p				
21	20240605b-21	WG1929733-4,42,, ms				
22	20240605b-22	WG1929733-5,42,, msd				
23	20240605b-23	L2430219-01,42,,				
24	20240605b-24	L2430219-02,42,,				
25	20240605b-25	L2430219-03,42,,				
26	20240605b-26	L2430219-05,42,,				
27	20240605b-27	L2430219-06,42,,				
28	20240605b-28	L2430219-07,42,,				
29	20240605b-29	L2430219-08,42,,				
30	20240605b-30	L2430219-09,42,,				
31	20240605b-31	L2430219-10,42,,				
32	20240605b-32	L2430244-01,42,,				
33	20240605b-33	L2430244-06,42,,				
34	20240605b-34	L2430428-01,42,,,R3E				
35	20240605b-35	L2422662-39,42,, p				
36	20240605b-36	WG1929734-4,42,, ms				
37	20240605b-37	WG1929734-5,42,, dup				
38	20240605b-38	L2430273-03,42,,				

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 18 2024, 03:51 pm

Work Group: WG1929733 for Department: 2 Organic Preparation

Created: 05-JUN-24 Due: Operator: MAW

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2430219-01	MW-1S	S	NYTCL-8081	WATER	DONE	U	0606	0607	S0	Amber-A.120
L2430219-02	MW-2S	S	NYTCL-8081	WATER	DONE	U	0606	0607	S0	Amber-A.120
L2430219-03	MW-3S	S	NYTCL-8081	WATER	DONE	U	0606	0607	S0	Amber-A.120
L2430219-04	MW-4D	S	NYTCL-8081	WATER	DONE	U	0606	0607	S0	Amber-A.120
L2430219-05	MW-5S	S	NYTCL-8081	WATER	DONE	U	0606	0607	S0	Amber-A.120
L2430219-06	MW-6D	S	NYTCL-8081	WATER	DONE	U	0606	0607	S0	Amber-A.120
L2430219-07	MW-7S	S	NYTCL-8081	WATER	DONE	U	0606	0607	S0	Amber-A.120
L2430219-08	MW-8S	S	NYTCL-8081	WATER	DONE	U	0606	0607	S0	Amber-A.120
L2430219-09	DUP	S	NYTCL-8081	WATER	DONE	U	0606	0607	S0	Amber-A.120
L2430219-10	FB	S	NYTCL-8081	WATER	DONE	U	0606	0607	S0	Amber-A.120
L2430244-01	FIELD BLANK RIVERSIDE	S	NYTCL-8081	WATER	DONE	U	0607	0607	S0	Amber-A.120
L2430244-06	FIELD BLANK VERDI	S	NYTCL-8081	WATER	DONE	U	0607	0607	S0	Amber-A.120
L2430428-01	EB-053124	S	NYTCL-8081	WATER	DONE	U	0607	0607	3E	Amber-A.120
WG1929733-1	Laboratory Method Bl	S	NYTCL-8081	WATER	DONE	U				
WG1929733-2	Laboratory Control S	S	NYTCL-8081	WATER	DONE	U				
WG1929733-3	LCS Duplicate	S	NYTCL-8081	WATER	DONE	U				
WG1929733-4	Matrix Spike	S	NYTCL-8081	WATER	DONE	U				
WG1929733-5	Matrix Spike Duplica	S	NYTCL-8081	WATER	DONE	U				

Comments:

WG1929733-3	WG1929733-2
WG1929733-4	L2430219-04
WG1929733-5	L2430219-04

ORGANIC ELN REPORT

Workgroup: WG1929733

Prep Method: EPA 3510C
Solvent Type: DCM
Surrogate Type: Pesticide/PCB
Spike Type: Pesticide
Spike Verify by: MAW
Lims Spikelot: PEST_LVI
Lot #: EI524
Lot #: pp11564ac,10/30/2024,7c,6,1
Lot #: PP11566aa,10/09/2024,7c,5,1

Additional Reagents/Stds

Na2SO4	23L0461008

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Hexane
Lot #: EI042

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type:
Lot #:

Additional Reagents/Stds

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2430219-01 SAMP	06/05/24 00:13	Melissa Ward	140	>5, <9	.25		06/05/24 15:53	Amanda Patterson	1	H / K / #3
L2430219-02 SAMP	06/05/24 00:13	Melissa Ward	140	>5, <9	.25		06/05/24 15:53	Amanda Patterson	1	H / K / #3
L2430219-03 SAMP	06/05/24 00:13	Melissa Ward	140	>5, <9	.25		06/05/24 15:53	Amanda Patterson	1	H / K / #3
L2430219-04 SAMP	06/05/24 00:13	Melissa Ward	140	>5, <9	.25		06/05/24 15:53	Amanda Patterson	1	H / K / #3
L2430219-05 SAMP	06/05/24 00:13	Melissa Ward	140	>5, <9	.25		06/05/24 15:53	Amanda Patterson	1	H / K / #3
L2430219-06 SAMP	06/05/24 00:13	Melissa Ward	140	>5, <9	.25		06/05/24 15:53	Amanda Patterson	1	H / K / #3
L2430219-07 SAMP	06/05/24 00:13	Melissa Ward	140	>5, <9	.25		06/05/24 15:53	Amanda Patterson	1	H / K / #3

Reported: 18-JUN-24 03:51 PM

ORGANIC ELN REPORT

Workgroup: WG1929733

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2430219-08 SAMP	06/05/24 00:13	Melissa Ward	140	>5, <9	.25		06/05/24 15:53	Amanda Patterson	1	H / K / #3
L2430219-09 SAMP	06/05/24 00:13	Melissa Ward	140	>5, <9	.25		06/05/24 15:53	Amanda Patterson	1	H / K / #3
L2430219-10 SAMP	06/05/24 00:13	Melissa Ward	140	>5, <9	.25		06/05/24 15:53	Amanda Patterson	1	H / K / #3
L2430244-01 WATER	06/05/24 00:22	Melissa Ward	74	>5, <9	.25		06/05/24 15:53	Amanda Patterson	1	H&K, N#3
	Lim vol rcvd from client									
L2430244-06 WATER	06/05/24 00:22	Melissa Ward	140	>5, <9	.25		06/05/24 15:53	Amanda Patterson	1	H&K, N#3
L2430428-01 SAMP	06/05/24 00:22	Melissa Ward	140	>5, <9	.25		06/05/24 15:53	Amanda Patterson	1	H&K, N#3
WG1929733-1 BLANK	06/05/24 00:10	Melissa Ward	140	>5, <9	.25		06/05/24 15:53	Amanda Patterson	1	H / K / #3
	WG1929730, WG1929733, WG1929734									
WG1929733-2 LCS	06/05/24 00:10	Melissa Ward	140	>5, <9	.25	.25	06/05/24 15:53	Amanda Patterson	1	H / K / #3
	WG1929730, WG1929733, WG1929734									
WG1929733-3 LCSD	06/05/24 00:10	Melissa Ward	140	>5, <9	.25	.25	06/05/24 15:53	Amanda Patterson	1	H / K / #3
	WG1929730, WG1929733, WG1929734									
WG1929733-4 MS	06/05/24 00:13	Melissa Ward	140	>5, <9	.25	.25	06/05/24 15:53	Amanda Patterson	1	H / K / #3

Reported: 18-JUN-24 03:51 PM

ORGANIC ELN REPORT

Workgroup: WG1929733

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1929733-5 MSD	06/05/24 00:13	Melissa Ward	140	>5, <9	.25	.25	06/05/24 15:53	Amanda Patterson	1	H / K / #3

Reported: 18-JUN-24 03:51 PM

Metals

Inorganic Data
(ICPMS Analysis)

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 21:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	0.838	0.0100	0.00327	
7440-36-0	Antimony, Dissolved	0.00098	0.00400	0.00042	J
7440-38-2	Arsenic, Dissolved	0.00409	0.00050	0.00016	
7440-39-3	Barium, Dissolved	0.00771	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	105.	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00040	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	0.00049	0.00050	0.00016	J
7440-50-8	Copper, Dissolved	0.00114	0.00100	0.00038	
7439-89-6	Iron, Dissolved	0.122	0.0500	0.0191	
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	0.208	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.7264	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00451	0.00200	0.00055	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	43.1	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	0.01710	0.00500	0.00157	
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 21:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	0.00063	0.00400	0.00042	J
7440-38-2	Arsenic, Dissolved	0.00026	0.00050	0.00016	J
7440-39-3	Barium, Dissolved	0.02784	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	89.2	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00169	0.00100	0.00017	
7440-48-4	Cobalt, Dissolved	0.00043	0.00050	0.00016	J
7440-50-8	Copper, Dissolved	0.00207	0.00100	0.00038	
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	8.13	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	ND	0.00100	0.00044	U
7440-02-0	Nickel, Dissolved	ND	0.00200	0.00055	U
7440-09-7	Potassium, Dissolved	11.8	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	7.19	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 21:36
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	0.00111	0.00400	0.00042	J
7440-38-2	Arsenic, Dissolved	0.00054	0.00050	0.00016	
7440-39-3	Barium, Dissolved	0.07436	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	147.	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00177	0.00100	0.00017	
7440-48-4	Cobalt, Dissolved	0.00072	0.00050	0.00016	
7440-50-8	Copper, Dissolved	0.00331	0.00100	0.00038	
7439-89-6	Iron, Dissolved	0.0215	0.0500	0.0191	J
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	13.9	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.00781	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00089	0.00200	0.00055	J
7440-09-7	Potassium, Dissolved	18.3	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	16.7	0.100	0.0293	
7440-28-0	Thallium, Dissolved	0.00017	0.00100	0.00014	J
7440-62-2	Vanadium, Dissolved	0.00292	0.00500	0.00157	J
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 20:21
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	0.00052	0.00400	0.00042	J
7440-38-2	Arsenic, Dissolved	0.00017	0.00050	0.00016	J
7440-39-3	Barium, Dissolved	0.06716	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	24.0	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00153	0.00100	0.00017	
7440-48-4	Cobalt, Dissolved	ND	0.00050	0.00016	U
7440-50-8	Copper, Dissolved	ND	0.00100	0.00038	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	13.6	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.00087	0.00100	0.00044	J
7440-02-0	Nickel, Dissolved	0.00085	0.00200	0.00055	J
7440-09-7	Potassium, Dissolved	1.24	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 21:41
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	0.00458	0.0100	0.00327	J
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	ND	0.00050	0.00016	U
7440-39-3	Barium, Dissolved	0.00732	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	13.2	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00032	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	ND	0.00050	0.00016	U
7440-50-8	Copper, Dissolved	ND	0.00100	0.00038	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	1.79	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.00073	0.00100	0.00044	J
7440-02-0	Nickel, Dissolved	0.00148	0.00200	0.00055	J
7440-09-7	Potassium, Dissolved	1.59	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	6.64	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 21:46
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	0.00995	0.0100	0.00327	J
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	0.00027	0.00050	0.00016	J
7440-39-3	Barium, Dissolved	0.06631	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	0.00006	0.00020	0.00005	J
7440-70-2	Calcium, Dissolved	153.	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00113	0.00100	0.00017	
7440-48-4	Cobalt, Dissolved	0.00057	0.00050	0.00016	
7440-50-8	Copper, Dissolved	0.00119	0.00100	0.00038	
7439-89-6	Iron, Dissolved	0.0230	0.0500	0.0191	J
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-96-5	Manganese, Dissolved	4.503	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00071	0.00200	0.00055	J
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	31.3	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 21:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	0.00018	0.00050	0.00016	J
7440-39-3	Barium, Dissolved	0.07266	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	113.	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00048	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	0.00028	0.00050	0.00016	J
7440-50-8	Copper, Dissolved	0.00131	0.00100	0.00038	
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	12.1	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.08083	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00059	0.00200	0.00055	J
7440-09-7	Potassium, Dissolved	11.9	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	22.5	0.100	0.0293	
7440-28-0	Thallium, Dissolved	0.00026	0.00100	0.00014	J
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 21:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	0.00017	0.00050	0.00016	J
7440-39-3	Barium, Dissolved	0.06408	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	41.5	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00034	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	0.00020	0.00050	0.00016	J
7440-50-8	Copper, Dissolved	0.00252	0.00100	0.00038	
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	4.26	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.01073	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00656	0.00200	0.00055	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	31.8	0.100	0.0293	
7440-28-0	Thallium, Dissolved	0.00018	0.00100	0.00014	J
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 22:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	0.00062	0.00400	0.00042	J
7440-38-2	Arsenic, Dissolved	0.00027	0.00050	0.00016	J
7440-39-3	Barium, Dissolved	0.06346	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	43.0	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00036	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	0.00018	0.00050	0.00016	J
7440-50-8	Copper, Dissolved	0.00257	0.00100	0.00038	
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	4.31	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.01084	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00064	0.00200	0.00055	J
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	32.2	0.100	0.0293	
7440-28-0	Thallium, Dissolved	0.00018	0.00100	0.00014	J
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-10	**Date Collected**	: 05/30/24 14:25
Client ID	: FB	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 21:17
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	ND	0.00050	0.00016	U
7440-39-3	Barium, Dissolved	ND	0.00050	0.00017	U
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	ND	0.100	0.0394	U
7440-47-3	Chromium, Dissolved	0.00020	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	ND	0.00050	0.00016	U
7440-50-8	Copper, Dissolved	ND	0.00100	0.00038	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	ND	0.0700	0.0242	U
7439-96-5	Manganese, Dissolved	ND	0.00100	0.00044	U
7440-02-0	Nickel, Dissolved	ND	0.00200	0.00055	U
7440-09-7	Potassium, Dissolved	ND	0.100	0.0309	U
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	ND	0.100	0.0293	U
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1930656-1	**Date Collected**	: NA
Client ID	: WG1930656-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/10/24 19:24
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	ND	0.00050	0.00016	U
7440-39-3	Barium, Dissolved	0.00043	0.00050	0.00017	J
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	ND	0.100	0.0394	U
7440-47-3	Chromium, Dissolved	ND	0.00100	0.00017	U
7440-48-4	Cobalt, Dissolved	ND	0.00050	0.00016	U
7440-50-8	Copper, Dissolved	ND	0.00100	0.00038	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	ND	0.0700	0.0242	U
7439-96-5	Manganese, Dissolved	ND	0.00100	0.00044	U
7440-02-0	Nickel, Dissolved	ND	0.00200	0.00055	U
7440-09-7	Potassium, Dissolved	ND	0.100	0.0309	U
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	ND	0.100	0.0293	U
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

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METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1930656-6	**Date Collected**	:
Client ID	: Serial Dilution	**Date Received**	:
Sample Location	:	**Date Analyzed**	: 06/10/24 20:49
Sample Matrix	: WATER	**Dilution Factor**	: 5
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	0.405	0.0500	0.016	
7440-39-3	Barium, Dissolved	0.09200	0.00250	0.0009	
7440-70-2	Calcium, Dissolved	90.8	0.500	0.197	
7439-96-5	Manganese, Dissolved	0.08752	0.00500	0.0022	
7440-09-7	Potassium, Dissolved	19.2	0.500	0.154	
7440-23-5	Sodium, Dissolved	56.2	0.500	0.146	

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Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1930656-10	**Date Collected**	:
Client ID	: Serial Dilution	**Date Received**	:
Sample Location	:	**Date Analyzed**	: 06/10/24 20:39
Sample Matrix	: WATER	**Dilution Factor**	: 5
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-39-3	Barium, Dissolved	0.06571	0.00250	0.0009	
7440-70-2	Calcium, Dissolved	25.0	0.500	0.197	
7439-95-4	Magnesium, Dissolved	14.1	0.350	0.121	

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Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 16:06
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.850	0.0100	0.00327	
7440-36-0	Antimony, Total	0.00098	0.00400	0.00042	J
7440-38-2	Arsenic, Total	0.00398	0.00050	0.00016	
7440-39-3	Barium, Total	0.00815	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	109.	0.100	0.0394	
7440-47-3	Chromium, Total	0.00042	0.00100	0.00017	J
7440-48-4	Cobalt, Total	0.00054	0.00050	0.00016	
7440-50-8	Copper, Total	0.00141	0.00100	0.00038	
7439-89-6	Iron, Total	0.306	0.0500	0.0191	
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	0.161	0.0700	0.0242	
7439-96-5	Manganese, Total	0.6771	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00478	0.00200	0.00055	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	40.5	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	0.01972	0.00500	0.00157	
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

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METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 17:09
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-09-7	Potassium, Total	22.4	1.00	0.309	

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Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 16:11
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.0208	0.0100	0.00327	
7440-36-0	Antimony, Total	0.00063	0.00400	0.00042	J
7440-38-2	Arsenic, Total	0.00018	0.00050	0.00016	J
7440-39-3	Barium, Total	0.02793	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	88.3	0.100	0.0394	
7440-47-3	Chromium, Total	0.00169	0.00100	0.00017	
7440-48-4	Cobalt, Total	0.00046	0.00050	0.00016	J
7440-50-8	Copper, Total	0.00200	0.00100	0.00038	
7439-89-6	Iron, Total	0.0278	0.0500	0.0191	J
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	7.93	0.0700	0.0242	
7439-96-5	Manganese, Total	0.00219	0.00100	0.00044	
7440-02-0	Nickel, Total	ND	0.00200	0.00055	U
7440-09-7	Potassium, Total	11.7	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	7.02	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

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METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 16:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.00494	0.0100	0.00327	J
7440-36-0	Antimony, Total	0.00104	0.00400	0.00042	J
7440-38-2	Arsenic, Total	0.00058	0.00050	0.00016	
7440-39-3	Barium, Total	0.07415	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	143.	0.100	0.0394	
7440-47-3	Chromium, Total	0.00165	0.00100	0.00017	
7440-48-4	Cobalt, Total	0.00079	0.00050	0.00016	
7440-50-8	Copper, Total	0.00305	0.00100	0.00038	
7439-89-6	Iron, Total	0.0219	0.0500	0.0191	J
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	12.8	0.0700	0.0242	
7439-96-5	Manganese, Total	0.00735	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00069	0.00200	0.00055	J
7440-09-7	Potassium, Total	18.5	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	15.3	0.100	0.0293	
7440-28-0	Thallium, Total	0.00021	0.00100	0.00014	J
7440-62-2	Vanadium, Total	0.00299	0.00500	0.00157	J
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

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METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 15:43
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.0167	0.0100	0.00327	
7440-36-0	Antimony, Total	0.00079	0.00400	0.00042	J
7440-38-2	Arsenic, Total	ND	0.00050	0.00016	U
7440-39-3	Barium, Total	0.06768	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	23.8	0.100	0.0394	
7440-47-3	Chromium, Total	0.00625	0.00100	0.00017	
7440-48-4	Cobalt, Total	ND	0.00050	0.00016	U
7440-50-8	Copper, Total	ND	0.00100	0.00038	U
7439-89-6	Iron, Total	0.0635	0.0500	0.0191	
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	13.2	0.0700	0.0242	
7439-96-5	Manganese, Total	0.00437	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00309	0.00200	0.00055	
7440-09-7	Potassium, Total	1.30	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

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METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 16:59
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-23-5	Sodium, Total	59.9	1.00	0.293	

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METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 16:36
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.00634	0.0100	0.00327	J
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	ND	0.00050	0.00016	U
7440-39-3	Barium, Total	0.00824	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	15.6	0.100	0.0394	
7440-47-3	Chromium, Total	0.00056	0.00100	0.00017	J
7440-48-4	Cobalt, Total	ND	0.00050	0.00016	U
7440-50-8	Copper, Total	ND	0.00100	0.00038	U
7439-89-6	Iron, Total	ND	0.0500	0.0191	U
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	2.08	0.0700	0.0242	
7439-96-5	Manganese, Total	0.00150	0.00100	0.00044	
7440-02-0	Nickel, Total	ND	0.00200	0.00055	U
7440-09-7	Potassium, Total	1.82	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	7.16	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 17:13
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-95-4	Magnesium, Total	23.6	0.700	0.242	
7440-09-7	Potassium, Total	35.3	1.00	0.309	

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Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 16:40
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.150	0.0100	0.00327	
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	0.00038	0.00050	0.00016	J
7440-39-3	Barium, Total	0.08189	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	0.00007	0.00020	0.00005	J
7440-70-2	Calcium, Total	148.	0.100	0.0394	
7440-47-3	Chromium, Total	0.00900	0.00100	0.00017	
7440-48-4	Cobalt, Total	0.00076	0.00050	0.00016	
7440-50-8	Copper, Total	0.00173	0.00100	0.00038	
7439-89-6	Iron, Total	0.466	0.0500	0.0191	
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-96-5	Manganese, Total	4.509	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00604	0.00200	0.00055	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	30.9	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

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Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 16:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.0100	0.00327	U
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	0.00020	0.00050	0.00016	J
7440-39-3	Barium, Total	0.07654	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	113.	0.100	0.0394	
7440-47-3	Chromium, Total	0.00105	0.00100	0.00017	
7440-48-4	Cobalt, Total	0.00028	0.00050	0.00016	J
7440-50-8	Copper, Total	0.00126	0.00100	0.00038	
7439-89-6	Iron, Total	ND	0.0500	0.0191	U
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	11.9	0.0700	0.0242	
7439-96-5	Manganese, Total	0.08168	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00075	0.00200	0.00055	J
7440-09-7	Potassium, Total	12.1	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	22.4	0.100	0.0293	
7440-28-0	Thallium, Total	0.00028	0.00100	0.00014	J
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

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METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 16:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.00487	0.0100	0.00327	J
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	0.00018	0.00050	0.00016	J
7440-39-3	Barium, Total	0.06372	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	41.6	0.100	0.0394	
7440-47-3	Chromium, Total	0.00112	0.00100	0.00017	
7440-48-4	Cobalt, Total	0.00021	0.00050	0.00016	J
7440-50-8	Copper, Total	0.00248	0.00100	0.00038	
7439-89-6	Iron, Total	ND	0.0500	0.0191	U
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	4.08	0.0700	0.0242	
7439-96-5	Manganese, Total	0.01224	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00103	0.00200	0.00055	J
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	30.9	0.100	0.0293	
7440-28-0	Thallium, Total	0.00019	0.00100	0.00014	J
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

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METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 18:01
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-09-7	Potassium, Total	25.1	1.00	0.309	

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Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 18:06
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-09-7	Potassium, Total	25.4	1.00	0.309	

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METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 16:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.00391	0.0100	0.00327	J
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	0.00017	0.00050	0.00016	J
7440-39-3	Barium, Total	0.06447	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	41.5	0.100	0.0394	
7440-47-3	Chromium, Total	0.00055	0.00100	0.00017	J
7440-48-4	Cobalt, Total	0.00021	0.00050	0.00016	J
7440-50-8	Copper, Total	0.00262	0.00100	0.00038	
7439-89-6	Iron, Total	ND	0.0500	0.0191	U
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	4.12	0.0700	0.0242	
7439-96-5	Manganese, Total	0.01235	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00076	0.00200	0.00055	J
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	31.2	0.100	0.0293	
7440-28-0	Thallium, Total	0.00020	0.00100	0.00014	J
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

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METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-10	**Date Collected**	: 05/30/24 14:25
Client ID	: FB	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 16:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.00867	0.0100	0.00327	J
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	ND	0.00050	0.00016	U
7440-39-3	Barium, Total	ND	0.00050	0.00017	U
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	0.0483	0.100	0.0394	J
7440-47-3	Chromium, Total	0.00034	0.00100	0.00017	J
7440-48-4	Cobalt, Total	ND	0.00050	0.00016	U
7440-50-8	Copper, Total	ND	0.00100	0.00038	U
7439-89-6	Iron, Total	ND	0.0500	0.0191	U
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	ND	0.0700	0.0242	U
7439-96-5	Manganese, Total	0.00095	0.00100	0.00044	J
7440-02-0	Nickel, Total	ND	0.00200	0.00055	U
7440-09-7	Potassium, Total	ND	0.100	0.0309	U
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	ND	0.100	0.0293	U
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

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Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1930718-1	**Date Collected**	: NA
Client ID	: WG1930718-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/10/24 15:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.0100	0.00327	U
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	ND	0.00050	0.00016	U
7440-39-3	Barium, Total	ND	0.00050	0.00017	U
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	ND	0.100	0.0394	U
7440-47-3	Chromium, Total	ND	0.00100	0.00017	U
7440-48-4	Cobalt, Total	ND	0.00050	0.00016	U
7440-50-8	Copper, Total	ND	0.00100	0.00038	U
7439-89-6	Iron, Total	ND	0.0500	0.0191	U
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	ND	0.0700	0.0242	U
7439-96-5	Manganese, Total	0.00059	0.00100	0.00044	J
7440-02-0	Nickel, Total	ND	0.00200	0.00055	U
7440-09-7	Potassium, Total	ND	0.100	0.0309	U
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	ND	0.100	0.0293	U
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

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METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1930718-6	**Date Collected**	:
Client ID	: Serial Dilution	**Date Received**	:
Sample Location	:	**Date Analyzed**	: 06/10/24 16:01
Sample Matrix	: WATER	**Dilution Factor**	: 5
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-39-3	Barium, Total	0.06699	0.00250	0.0009	
7440-70-2	Calcium, Total	24.9	0.500	0.197	
7439-95-4	Magnesium, Total	13.8	0.350	0.121	

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Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1930718-6	**Date Collected**	:
Client ID	: Serial Dilution	**Date Received**	:
Sample Location	:	**Date Analyzed**	: 06/10/24 17:04
Sample Matrix	: WATER	**Dilution Factor**	: 50
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1931899.csv	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-23-5	Sodium, Total	59.8	5.00	1.46	

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METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/11/24 18:58
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: MRC
Lab File ID	: WG1932743.pdf	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-09-7	Potassium, Dissolved	24.0	0.100	0.0309	

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Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/11/24 18:10
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: MRC
Lab File ID	: WG1932743.pdf	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-23-5	Sodium, Dissolved	51.6	0.100	0.0293	

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METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/11/24 20:46
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: MRC
Lab File ID	: WG1932743.pdf	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-95-4	Magnesium, Dissolved	22.4	0.0700	0.0242	
7440-09-7	Potassium, Dissolved	36.6	0.100	0.0309	

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METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/11/24 19:09
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: MRC
Lab File ID	: WG1932743.pdf	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-09-7	Potassium, Dissolved	27.6	0.100	0.0309	

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/11/24 19:14
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: MRC
Lab File ID	: WG1932743.pdf	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-09-7	Potassium, Dissolved	28.2	0.100	0.0309	

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1930656-6	**Date Collected**	:
Client ID	: Serial Dilution	**Date Received**	:
Sample Location	:	**Date Analyzed**	: 06/11/24 18:05
Sample Matrix	: WATER	**Dilution Factor**	: 5
Analytical Method	: 1,6020B	**Analyst**	: MRC
Lab File ID	: WG1932743.pdf	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-95-4	Magnesium, Dissolved	34.2	0.350	0.121	

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1930656-10	**Date Collected**	:
Client ID	: Serial Dilution	**Date Received**	:
Sample Location	:	**Date Analyzed**	: 06/11/24 18:29
Sample Matrix	: WATER	**Dilution Factor**	: 5
Analytical Method	: 1,6020B	**Analyst**	: MRC
Lab File ID	: WG1932743.pdf	**Instrument ID**	: ICPMSRQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-23-5	Sodium, Dissolved	59.3	0.500	0.146	

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1838809-1			R1838809-4			R1838809-6		R1838809-9	
Date Analyzed:	06/10/24 08:08			06/10/24 08:33			06/10/24 10:32		06/10/24 11:34	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	50.0	50.9000	102	60.0000	60.7	101	65.9	110	71.2	119
Antimony	50.0	48.6000	97	60.0000	59.5	99	61.7	103	62.0	103
Arsenic	50.0	47.3000	95	60.0000	60.4	101	60.2	100	60.2	100
Barium	50.0	48.4000	97	60.0000	59.8	100	61.0	102	62.0	103
Beryllium	50.0	48.0000	96	60.0000	59.0	98	60.3	100	61.2	102
Cadmium	50.0	47.8000	96	60.0000	60.3	100	62.4	104	62.5	104
Calcium	5000	5040.0000	101	6000.0000	6550	109	6380	106	6340	106
Chromium	50.0	48.7000	97	60.0000	62.7	104	64.1	107	63.5	106
Cobalt	50.0	48.4000	97	60.0000	62.0	103	62.9	105	63.3	106
Copper	50.0	47.7000	95	60.0000	60.7	101	61.7	103	62.3	104
Iron	5000	4830.0000	97	6000.0000	6150	102	6340	106	6310	105
Lead	50.0	45.3000	91	60.0000	59.9	100	62.3	104	61.9	103
Magnesium	5000	4850.0000	97	6000.0000	5960	99	6390	106	6130	102
Manganese	50.0	49.4000	99	60.0000	62.6	104	62.4	104	62.5	104
Nickel	50.0	49.3000	99	60.0000	63.2	105	64.1	107	64.1	107
Potassium	5000	4950.0000	99	6000.0000	6190	103	6180	103	6190	103
Selenium	50.0	47.5000	95	60.0000	60.4	101	61.8	103	59.7	100
Silver	50.0	46.8000	94	60.0000	60.1	100	62.3	104	62.2	104
Sodium	5000	4850.0000	97	6000.0000	5940	99	6440	107	6110	102
Thallium	50.0	48.4000	97	60.0000	59.6	99	59.8	100	61.1	102
Vanadium	50.0	48.5000	97	60.0000	62.2	104	63.8	106	63.3	106
Zinc	50.0	46.8000	94	60.0000	60.5	101	61.9	103	62.1	104

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1838809-11			R1838809-13		R1838809-15	
Date Analyzed:				06/10/24 11:54			06/10/24 12:52		06/10/24 13:54	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				60.0000	65.0	108	60.8	101	65.2	109
Antimony				60.0000	62.5	104	61.1	102	63.7	106
Arsenic				60.0000	59.2	99	60.1	100	61.3	102
Barium				60.0000	61.2	102	62.8	105	61.2	102
Beryllium				60.0000	61.6	103	62.6	104	60.9	102
Cadmium				60.0000	62.1	104	61.8	103	63.6	106
Calcium				6000.0000	6160	103	6460	108	6480	108
Chromium				60.0000	64.2	107	65.0	108	63.6	106
Cobalt				60.0000	61.7	103	63.8	106	64.9	108
Copper				60.0000	61.9	103	62.4	104	64.8	108
Iron				6000.0000	6210	104	6440	107	6500	108
Lead				60.0000	60.8	101	62.7	104	61.0	102
Magnesium				6000.0000	5980	100	6270	104	6390	106
Manganese				60.0000	62.5	104	64.3	107	65.4	109
Nickel				60.0000	64.6	108	64.1	107	65.9	110
Potassium				6000.0000	6170	103	6390	106	6500	108
Selenium				60.0000	60.1	100	60.8	101	63.6	106
Silver				60.0000	61.2	102	61.7	103	62.4	104
Sodium				6000.0000	5980	100	6280	105	6450	108
Thallium				60.0000	58.8	98	61.1	102	59.0	98
Vanadium				60.0000	63.6	106	63.6	106	66.2	110
Zinc				60.0000	61.8	103	62.4	104	64.7	108

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1838809-17			R1838809-19		R1838809-21	
Date Analyzed :				06/10/24 14:54			06/10/24 15:24		06/10/24 16:20	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				60.0000	57.4	96	63.6	106	64.1	107
Antimony				60.0000	61.8	103	54.8	91	55.4	92
Arsenic				60.0000	61.7	103	57.9	96	60.0	100
Barium				60.0000	61.9	103	60.6	101	59.8	100
Beryllium				60.0000	61.6	103	59.9	100	60.8	101
Cadmium				60.0000	62.1	104	60.7	101	61.3	102
Calcium				6000.0000	6670	111	6380	106	6430	107
Chromium				60.0000	65.2	109	63.1	105	63.7	106
Cobalt				60.0000	64.6	108	60.2	100	63.8	106
Copper				60.0000	63.3	106	59.5	99	62.8	105
Iron				6000.0000	6350	106	6120	102	6170	103
Lead				60.0000	60.1	100	61.3	102	61.0	102
Magnesium				6000.0000	6130	102	5950	99	5910	98
Manganese				60.0000	64.4	107	60.8	101	62.3	104
Nickel				60.0000	64.1	107	61.0	102	63.9	106
Potassium				6000.0000	6260	104	5940	99	6040	101
Selenium				60.0000	63.5	106	60.1	100	61.5	102
Silver				60.0000	62.8	105	59.9	100	61.4	102
Sodium				6000.0000	6200	103	5960	99	5930	99
Thallium				60.0000	57.9	96	61.3	102	60.3	100
Vanadium				60.0000	64.0	107	61.8	103	63.7	106
Zinc				60.0000	62.7	104	58.6	98	61.8	103

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1838809-23			R1838809-25		R1838809-27	
Date Analyzed :				06/10/24 17:18			06/10/24 18:16		06/10/24 19:14	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				60.0000	63.0	105	59.2	99	65.8	110
Antimony				60.0000	55.8	93	55.2	92	55.4	92
Arsenic				60.0000	59.6	99	58.6	98	58.6	98
Barium				60.0000	59.8	100	60.7	101	59.6	99
Beryllium				60.0000	59.2	99	60.5	101	60.0	100
Cadmium				60.0000	62.3	104	61.0	102	61.9	103
Calcium				6000.0000	6350	106	6390	106	6380	106
Chromium				60.0000	63.5	106	62.7	104	63.3	106
Cobalt				60.0000	62.1	104	61.8	103	63.0	105
Copper				60.0000	61.1	102	61.4	102	61.5	102
Iron				6000.0000	6190	103	6010	100	6180	103
Lead				60.0000	61.0	102	60.0	100	60.8	101
Magnesium				6000.0000	6060	101	5920	99	6210	104
Manganese				60.0000	61.4	102	60.3	100	61.9	103
Nickel				60.0000	63.5	106	61.5	102	63.2	105
Potassium				6000.0000	5910	98	5680	95	5990	100
Selenium				60.0000	62.3	104	59.4	99	59.2	99
Silver				60.0000	60.7	101	60.3	100	61.0	102
Sodium				6000.0000	6000	100	5930	99	6150	102
Thallium				60.0000	60.4	101	59.8	100	59.4	99
Vanadium				60.0000	62.6	104	62.0	103	63.0	105
Zinc				60.0000	60.3	100	59.3	99	60.2	100

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1838809-29			R1838809-31		R1838809-33	
Date Analyzed :				06/10/24 20:11			06/10/24 21:08		06/10/24 22:04	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				60.0000	63.9	106	56.9	95	63.8	106
Antimony				60.0000	57.2	95	56.7	94	57.0	95
Arsenic				60.0000	59.3	99	58.5	98	60.3	100
Barium				60.0000	60.0	100	59.9	100	60.4	101
Beryllium				60.0000	58.6	98	59.7	100	58.6	98
Cadmium				60.0000	61.1	102	62.4	104	62.4	104
Calcium				6000.0000	6360	106	6440	107	6540	109
Chromium				60.0000	62.9	105	63.2	105	63.4	106
Cobalt				60.0000	62.2	104	62.8	105	61.3	102
Copper				60.0000	60.9	102	61.0	102	61.1	102
Iron				6000.0000	5910	98	6060	101	6120	102
Lead				60.0000	60.5	101	61.0	102	59.8	100
Magnesium				6000.0000	5990	100	6020	100	6120	102
Manganese				60.0000	59.8	100	60.3	100	61.0	102
Nickel				60.0000	62.7	104	63.9	106	62.7	104
Potassium				6000.0000	5720	95	5750	96	5870	98
Selenium				60.0000	59.9	100	61.0	102	63.3	106
Silver				60.0000	61.4	102	62.6	104	61.5	102
Sodium				6000.0000	5960	99	5970	100	6070	101
Thallium				60.0000	59.6	99	59.8	100	59.6	99
Vanadium				60.0000	61.8	103	62.7	104	62.8	105
Zinc				60.0000	59.8	100	60.1	100	61.1	102

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1838809-35						
Date Analyzed :				06/10/24 22:14						
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				60.0000	70.5	118				
Antimony				60.0000	57.5	96				
Arsenic				60.0000	60.0	100				
Barium				60.0000	59.2	99				
Beryllium				60.0000	57.5	96				
Cadmium				60.0000	62.1	104				
Calcium				6000.0000	6670	111				
Chromium				60.0000	64.0	107				
Cobalt				60.0000	61.6	103				
Copper				60.0000	60.0	100				
Iron				6000.0000	6180	103				
Lead				60.0000	60.2	100				
Magnesium				6000.0000	6460	108				
Manganese				60.0000	61.1	102				
Nickel				60.0000	63.7	106				
Potassium				6000.0000	5980	100				
Selenium				60.0000	61.7	103				
Silver				60.0000	61.0	102				
Sodium				6000.0000	6400	107				
Thallium				60.0000	59.6	99				
Vanadium				60.0000	64.4	107				
Zinc				60.0000	60.5	101				

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1838809-1			R1838809-4			R1838809-6		R1838809-9	
Date Analyzed:	06/10/24 08:08			06/10/24 08:33			06/10/24 10:32		06/10/24 11:34	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	50.0	50.9000	102	60.0000	60.7	101	65.9	110	71.2	119
Antimony	50.0	48.6000	97	60.0000	59.5	99	61.7	103	62.0	103
Arsenic	50.0	47.3000	95	60.0000	60.4	101	60.2	100	60.2	100
Barium	50.0	48.4000	97	60.0000	59.8	100	61.0	102	62.0	103
Beryllium	50.0	48.0000	96	60.0000	59.0	98	60.3	100	61.2	102
Cadmium	50.0	47.8000	96	60.0000	60.3	100	62.4	104	62.5	104
Calcium	5000	5040.0000	101	6000.0000	6550	109	6380	106	6340	106
Chromium	50.0	48.7000	97	60.0000	62.7	104	64.1	107	63.5	106
Cobalt	50.0	48.4000	97	60.0000	62.0	103	62.9	105	63.3	106
Copper	50.0	47.7000	95	60.0000	60.7	101	61.7	103	62.3	104
Iron	5000	4830.0000	97	6000.0000	6150	102	6340	106	6310	105
Lead	50.0	45.3000	91	60.0000	59.9	100	62.3	104	61.9	103
Magnesium	5000	4850.0000	97	6000.0000	5960	99	6390	106	6130	102
Manganese	50.0	49.4000	99	60.0000	62.6	104	62.4	104	62.5	104
Nickel	50.0	49.3000	99	60.0000	63.2	105	64.1	107	64.1	107
Potassium	5000	4950.0000	99	6000.0000	6190	103	6180	103	6190	103
Selenium	50.0	47.5000	95	60.0000	60.4	101	61.8	103	59.7	100
Silver	50.0	46.8000	94	60.0000	60.1	100	62.3	104	62.2	104
Sodium	5000	4850.0000	97	6000.0000	5940	99	6440	107	6110	102
Thallium	50.0	48.4000	97	60.0000	59.6	99	59.8	100	61.1	102
Vanadium	50.0	48.5000	97	60.0000	62.2	104	63.8	106	63.3	106
Zinc	50.0	46.8000	94	60.0000	60.5	101	61.9	103	62.1	104

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1838809-11			R1838809-13		R1838809-15	
Date Analyzed:				06/10/24 11:54			06/10/24 12:52		06/10/24 13:54	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				60.0000	65.0	108	60.8	101	65.2	109
Antimony				60.0000	62.5	104	61.1	102	63.7	106
Arsenic				60.0000	59.2	99	60.1	100	61.3	102
Barium				60.0000	61.2	102	62.8	105	61.2	102
Beryllium				60.0000	61.6	103	62.6	104	60.9	102
Cadmium				60.0000	62.1	104	61.8	103	63.6	106
Calcium				6000.0000	6160	103	6460	108	6480	108
Chromium				60.0000	64.2	107	65.0	108	63.6	106
Cobalt				60.0000	61.7	103	63.8	106	64.9	108
Copper				60.0000	61.9	103	62.4	104	64.8	108
Iron				6000.0000	6210	104	6440	107	6500	108
Lead				60.0000	60.8	101	62.7	104	61.0	102
Magnesium				6000.0000	5980	100	6270	104	6390	106
Manganese				60.0000	62.5	104	64.3	107	65.4	109
Nickel				60.0000	64.6	108	64.1	107	65.9	110
Potassium				6000.0000	6170	103	6390	106	6500	108
Selenium				60.0000	60.1	100	60.8	101	63.6	106
Silver				60.0000	61.2	102	61.7	103	62.4	104
Sodium				6000.0000	5980	100	6280	105	6450	108
Thallium				60.0000	58.8	98	61.1	102	59.0	98
Vanadium				60.0000	63.6	106	63.6	106	66.2	110
Zinc				60.0000	61.8	103	62.4	104	64.7	108

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1838809-17			R1838809-19		R1838809-21	
Date Analyzed:				06/10/24 14:54			06/10/24 15:24		06/10/24 16:20	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				60.0000	57.4	96	63.6	106	64.1	107
Antimony				60.0000	61.8	103	54.8	91	55.4	92
Arsenic				60.0000	61.7	103	57.9	96	60.0	100
Barium				60.0000	61.9	103	60.6	101	59.8	100
Beryllium				60.0000	61.6	103	59.9	100	60.8	101
Cadmium				60.0000	62.1	104	60.7	101	61.3	102
Calcium				6000.0000	6670	111	6380	106	6430	107
Chromium				60.0000	65.2	109	63.1	105	63.7	106
Cobalt				60.0000	64.6	108	60.2	100	63.8	106
Copper				60.0000	63.3	106	59.5	99	62.8	105
Iron				6000.0000	6350	106	6120	102	6170	103
Lead				60.0000	60.1	100	61.3	102	61.0	102
Magnesium				6000.0000	6130	102	5950	99	5910	98
Manganese				60.0000	64.4	107	60.8	101	62.3	104
Nickel				60.0000	64.1	107	61.0	102	63.9	106
Potassium				6000.0000	6260	104	5940	99	6040	101
Selenium				60.0000	63.5	106	60.1	100	61.5	102
Silver				60.0000	62.8	105	59.9	100	61.4	102
Sodium				6000.0000	6200	103	5960	99	5930	99
Thallium				60.0000	57.9	96	61.3	102	60.3	100
Vanadium				60.0000	64.0	107	61.8	103	63.7	106
Zinc				60.0000	62.7	104	58.6	98	61.8	103

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1838809-23			R1838809-25			
Date Analyzed :				06/10/24 17:18			06/10/24 18:16			
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				60.0000	63.0	105	59.2	99		
Antimony				60.0000	55.8	93	55.2	92		
Arsenic				60.0000	59.6	99	58.6	98		
Barium				60.0000	59.8	100	60.7	101		
Beryllium				60.0000	59.2	99	60.5	101		
Cadmium				60.0000	62.3	104	61.0	102		
Calcium				6000.0000	6350	106	6390	106		
Chromium				60.0000	63.5	106	62.7	104		
Cobalt				60.0000	62.1	104	61.8	103		
Copper				60.0000	61.1	102	61.4	102		
Iron				6000.0000	6190	103	6010	100		
Lead				60.0000	61.0	102	60.0	100		
Magnesium				6000.0000	6060	101	5920	99		
Manganese				60.0000	61.4	102	60.3	100		
Nickel				60.0000	63.5	106	61.5	102		
Potassium				6000.0000	5910	98	5680	95		
Selenium				60.0000	62.3	104	59.4	99		
Silver				60.0000	60.7	101	60.3	100		
Sodium				6000.0000	6000	100	5930	99		
Thallium				60.0000	60.4	101	59.8	100		
Vanadium				60.0000	62.6	104	62.0	103		
Zinc				60.0000	60.3	100	59.3	99		

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1839557-1			R1839557-4			R1839557-6		R1839557-9	
Date Analyzed :	06/11/24 13:59			06/11/24 14:24			06/11/24 15:24		06/11/24 16:34	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Magnesium	5000	5180.0000	104	6000.0000	6460	108	6030	100	6140	102
Potassium	5000	5180.0000	104	6000.0000	6280	105	6300	105	6120	102
Sodium	5000	5100.0000	102	6000.0000	6400	107	6030	100	6070	101

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1839557-11			R1839557-13		R1839557-15	
Date Analyzed :				06/11/24 17:30			06/11/24 18:33		06/11/24 19:19	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Magnesium				6000.0000	6100	102	6110	102	6140	102
Potassium				6000.0000	6440	107	6390	106	6480	108
Sodium				6000.0000	6120	102	6120	102	6090	102

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1839557-17			R1839557-19			
Date Analyzed :				06/11/24 20:25			06/11/24 21:28			
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Magnesium				6000.0000	6380	106	6490	108		
Potassium				6000.0000	6400	107	6530	109		
Sodium				6000.0000	6340	106	6350	106		

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1838809-2		R1838809-5		R1838809-7		R1838809-10		WG1930656-1	
Date Analyzed :	06/10/24 08:13		06/10/24 08:38		06/10/24 10:37		06/10/24 11:39		06/10/24 19:24	
Parameter	**ug/l**	**Q**	**ug/l**	**Q**	**ug/l**	**Q**	**ug/l**	**Q**	**mg/l**	**Q**
Aluminum	3.27	U	3.27	U	3.27	U	3.27	U	0.00327	U
Antimony	0.429	U	0.429	U	0.429	U	0.429	U	0.00042	U
Arsenic	0.165	U	0.165	U	0.165	U	0.165	U	0.00016	U
Barium	0.173	U	0.173	U	0.173	U	0.173	U	0.00043	J
Beryllium	0.107	U	0.107	U	0.107	U	0.107	U	0.00010	U
Cadmium	0.0599	U	0.0599	U	0.0599	U	0.0599	U	0.00005	U
Calcium	39.4	U	39.4	U	39.4	U	39.4	U	0.0394	U
Chromium	0.178	U	0.178	U	0.178	U	0.178	U	0.00017	U
Cobalt	0.163	U	0.163	U	0.163	U	0.163	U	0.00016	U
Copper	0.384	U	0.384	U	0.384	U	0.384	U	0.00038	U
Iron	19.1	U	19.1	U	19.1	U	19.1	U	0.0191	U
Lead	0.343	U	0.343	U	0.343	U	0.343	U	0.00034	U
Magnesium	24.2	U	24.2	U	24.2	U	24.2	U	0.0242	U
Manganese	0.440	U	0.440	U	0.440	U	0.440	U	0.00044	U
Nickel	0.556	U	0.556	U	0.556	U	0.556	U	0.00055	U
Potassium	30.9	U	30.9	U	30.9	U	30.9	U	0.0309	U
Selenium	1.73	U	1.73	U	1.73	U	1.73	U	0.00173	U
Silver	0.163	U	0.163	U	0.163	U	0.163	U	0.00016	U
Sodium	29.3	U	29.3	U	29.3	U	29.3	U	0.0293	U
Thallium	0.224	J	0.221	J	0.189	J	0.207	J	0.00014	U
Vanadium	1.57	U	1.57	U	1.57	U	1.57	U	0.00157	U
Zinc	3.41	U	3.41	U	3.41	U	3.41	U	0.00341	U

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1838809-12		R1838809-14		R1838809-16			
Date Analyzed :			06/10/24 11:59		06/10/24 12:57		06/10/24 14:00			
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		Q
Aluminum			3.27	U	3.27	U	3.27	U		
Antimony			0.429	U	0.429	U	0.429	U		
Arsenic			0.165	U	0.165	U	0.165	U		
Barium			0.173	U	0.173	U	0.173	U		
Beryllium			0.107	U	0.107	U	0.107	U		
Cadmium			0.0599	U	0.0599	U	0.0599	U		
Calcium			39.4	U	39.4	U	39.4	U		
Chromium			0.178	U	0.178	U	0.178	U		
Cobalt			0.163	U	0.163	U	0.163	U		
Copper			0.384	U	0.384	U	0.384	U		
Iron			19.1	U	19.1	U	19.1	U		
Lead			0.343	U	0.343	U	0.343	U		
Magnesium			24.2	U	24.2	U	24.2	U		
Manganese			0.440	U	0.440	U	0.440	U		
Nickel			0.556	U	0.556	U	0.556	U		
Potassium			30.9	U	30.9	U	30.9	U		
Selenium			1.73	U	1.73	U	1.73	U		
Silver			0.163	U	0.163	U	0.163	U		
Sodium			29.3	U	29.3	U	29.3	U		
Thallium			0.163	J	0.228	J	0.144	J		
Vanadium			1.57	U	1.57	U	1.57	U		
Zinc			3.41	U	3.41	U	3.41	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1838809-18		R1838809-20		R1838809-22			
Date Analyzed :			06/10/24 14:59		06/10/24 15:28		06/10/24 16:25			
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		Q
Aluminum			3.27	U	3.27	U	3.27	U		
Antimony			0.429	U	1.38	J	1.35	J		
Arsenic			0.165	U	0.165	U	0.165	U		
Barium			0.173	U	0.173	U	0.173	U		
Beryllium			0.107	U	0.107	U	0.107	U		
Cadmium			0.0599	U	0.0599	U	0.0599	U		
Calcium			39.4	U	39.4	U	39.4	U		
Chromium			0.178	U	0.178	U	0.178	U		
Cobalt			0.163	U	0.163	U	0.163	U		
Copper			0.384	U	0.384	U	0.384	U		
Iron			19.1	U	19.1	U	19.1	U		
Lead			0.343	U	0.343	U	0.343	U		
Magnesium			24.2	U	24.2	U	24.2	U		
Manganese			0.440	U	0.440	U	0.440	U		
Nickel			0.556	U	0.556	U	0.556	U		
Potassium			30.9	U	30.9	U	30.9	U		
Selenium			1.73	U	1.73	U	1.73	U		
Silver			0.163	U	0.163	U	0.163	U		
Sodium			29.3	U	29.3	U	29.3	U		
Thallium			0.381	J	0.143	U	0.143	U		
Vanadium			1.57	U	1.57	U	1.57	U		
Zinc			3.41	U	3.41	U	3.41	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1838809-24		R1838809-26		R1838809-28			
Date Analyzed :			06/10/24 17:23		06/10/24 18:20		06/10/24 19:19			
Parameter	**ug/l**	**Q**	**ug/l**	**Q**	**ug/l**	**Q**	**ug/l**	**Q**		**Q**
Aluminum			3.27	U	3.27	U	3.27	U		
Antimony			1.32	J	1.38	J	1.27	J		
Arsenic			0.165	U	0.165	U	0.165	U		
Barium			0.173	U	0.173	U	0.173	U		
Beryllium			0.107	U	0.107	U	0.107	U		
Cadmium			0.0599	U	0.0599	U	0.0599	U		
Calcium			39.4	U	39.4	U	39.4	U		
Chromium			0.178	U	0.178	U	0.178	U		
Cobalt			0.163	U	0.163	U	0.163	U		
Copper			0.384	U	0.384	U	0.384	U		
Iron			19.1	U	19.1	U	19.1	U		
Lead			0.343	U	0.343	U	0.343	U		
Magnesium			24.2	U	24.2	U	24.2	U		
Manganese			0.440	U	0.440	U	0.440	U		
Nickel			0.556	U	0.556	U	0.556	U		
Potassium			30.9	U	30.9	U	30.9	U		
Selenium			1.73	U	1.73	U	1.73	U		
Silver			0.163	U	0.163	U	0.163	U		
Sodium			29.3	U	29.3	U	29.3	U		
Thallium			0.143	U	0.143	U	0.143	U		
Vanadium			1.57	U	1.57	U	1.57	U		
Zinc			3.41	U	3.41	U	3.41	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1838809-30		R1838809-32		R1838809-34			
Date Analyzed :			06/10/24 20:16		06/10/24 21:13		06/10/24 22:09			
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		Q
Aluminum			3.27	U	3.27	U	3.27	U		
Antimony			1.32	J	1.24	J	1.24	J		
Arsenic			0.165	U	0.165	U	0.165	U		
Barium			0.173	U	0.173	U	0.173	U		
Beryllium			0.107	U	0.107	U	0.107	U		
Cadmium			0.0599	U	0.0599	U	0.0599	U		
Calcium			39.4	U	39.4	U	39.4	U		
Chromium			0.178	U	0.178	U	0.178	U		
Cobalt			0.163	U	0.163	U	0.163	U		
Copper			0.384	U	0.384	U	0.384	U		
Iron			19.1	U	19.1	U	19.1	U		
Lead			0.343	U	0.343	U	0.343	U		
Magnesium			24.2	U	24.2	U	24.2	U		
Manganese			0.440	U	0.440	U	0.440	U		
Nickel			0.556	U	0.556	U	0.556	U		
Potassium			30.9	U	30.9	U	30.9	U		
Selenium			1.73	U	1.73	U	1.73	U		
Silver			0.163	U	0.163	U	0.163	U		
Sodium			29.3	U	29.3	U	29.3	U		
Thallium			0.143	U	0.143	U	0.143	U		
Vanadium			1.57	U	1.57	U	1.57	U		
Zinc			3.41	U	3.41	U	3.41	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1838809-36							
Date Analyzed :			06/10/24 22:19							
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		Q
Aluminum			3.27	U						
Antimony			1.31	J						
Arsenic			0.165	U						
Barium			0.173	U						
Beryllium			0.107	U						
Cadmium			0.0599	U						
Calcium			39.4	U						
Chromium			0.178	U						
Cobalt			0.163	U						
Copper			0.384	U						
Iron			19.1	U						
Lead			0.343	U						
Magnesium			24.2	U						
Manganese			0.440	U						
Nickel			0.556	U						
Potassium			30.9	U						
Selenium			1.73	U						
Silver			0.163	U						
Sodium			29.3	U						
Thallium			0.143	U						
Vanadium			1.57	U						
Zinc			3.41	U						

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1838809-2		R1838809-5		R1838809-7		R1838809-10		WG1930718-1	
Date Analyzed :	06/10/24 08:13		06/10/24 08:38		06/10/24 10:37		06/10/24 11:39		06/10/24 15:33	
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q	mg/l	Q
Aluminum	3.27	U	3.27	U	3.27	U	3.27	U	0.00327	U
Antimony	0.429	U	0.429	U	0.429	U	0.429	U	0.00042	U
Arsenic	0.165	U	0.165	U	0.165	U	0.165	U	0.00016	U
Barium	0.173	U	0.173	U	0.173	U	0.173	U	0.00017	U
Beryllium	0.107	U	0.107	U	0.107	U	0.107	U	0.00010	U
Cadmium	0.0599	U	0.0599	U	0.0599	U	0.0599	U	0.00005	U
Calcium	39.4	U	39.4	U	39.4	U	39.4	U	0.0394	U
Chromium	0.178	U	0.178	U	0.178	U	0.178	U	0.00017	U
Cobalt	0.163	U	0.163	U	0.163	U	0.163	U	0.00016	U
Copper	0.384	U	0.384	U	0.384	U	0.384	U	0.00038	U
Iron	19.1	U	19.1	U	19.1	U	19.1	U	0.0191	U
Lead	0.343	U	0.343	U	0.343	U	0.343	U	0.00034	U
Magnesium	24.2	U	24.2	U	24.2	U	24.2	U	0.0242	U
Manganese	0.440	U	0.440	U	0.440	U	0.440	U	0.00059	J
Nickel	0.556	U	0.556	U	0.556	U	0.556	U	0.00055	U
Potassium	30.9	U	30.9	U	30.9	U	30.9	U	0.0309	U
Selenium	1.73	U	1.73	U	1.73	U	1.73	U	0.00173	U
Silver	0.163	U	0.163	U	0.163	U	0.163	U	0.00016	U
Sodium	29.3	U	29.3	U	29.3	U	29.3	U	0.0293	U
Thallium	0.224	J	0.221	J	0.189	J	0.207	J	0.00014	U
Vanadium	1.57	U	1.57	U	1.57	U	1.57	U	0.00157	U
Zinc	3.41	U	3.41	U	3.41	U	3.41	U	0.00341	U

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1838809-12		R1838809-14		R1838809-16			
Date Analyzed :			06/10/24 11:59		06/10/24 12:57		06/10/24 14:00			
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		Q
Aluminum			3.27	U	3.27	U	3.27	U		
Antimony			0.429	U	0.429	U	0.429	U		
Arsenic			0.165	U	0.165	U	0.165	U		
Barium			0.173	U	0.173	U	0.173	U		
Beryllium			0.107	U	0.107	U	0.107	U		
Cadmium			0.0599	U	0.0599	U	0.0599	U		
Calcium			39.4	U	39.4	U	39.4	U		
Chromium			0.178	U	0.178	U	0.178	U		
Cobalt			0.163	U	0.163	U	0.163	U		
Copper			0.384	U	0.384	U	0.384	U		
Iron			19.1	U	19.1	U	19.1	U		
Lead			0.343	U	0.343	U	0.343	U		
Magnesium			24.2	U	24.2	U	24.2	U		
Manganese			0.440	U	0.440	U	0.440	U		
Nickel			0.556	U	0.556	U	0.556	U		
Potassium			30.9	U	30.9	U	30.9	U		
Selenium			1.73	U	1.73	U	1.73	U		
Silver			0.163	U	0.163	U	0.163	U		
Sodium			29.3	U	29.3	U	29.3	U		
Thallium			0.163	J	0.228	J	0.144	J		
Vanadium			1.57	U	1.57	U	1.57	U		
Zinc			3.41	U	3.41	U	3.41	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1838809-18		R1838809-20		R1838809-22			
Date Analyzed:			06/10/24 14:59		06/10/24 15:28		06/10/24 16:25			
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		Q
Aluminum			3.27	U	3.27	U	3.27	U		
Antimony			0.429	U	1.38	J	1.35	J		
Arsenic			0.165	U	0.165	U	0.165	U		
Barium			0.173	U	0.173	U	0.173	U		
Beryllium			0.107	U	0.107	U	0.107	U		
Cadmium			0.0599	U	0.0599	U	0.0599	U		
Calcium			39.4	U	39.4	U	39.4	U		
Chromium			0.178	U	0.178	U	0.178	U		
Cobalt			0.163	U	0.163	U	0.163	U		
Copper			0.384	U	0.384	U	0.384	U		
Iron			19.1	U	19.1	U	19.1	U		
Lead			0.343	U	0.343	U	0.343	U		
Magnesium			24.2	U	24.2	U	24.2	U		
Manganese			0.440	U	0.440	U	0.440	U		
Nickel			0.556	U	0.556	U	0.556	U		
Potassium			30.9	U	30.9	U	30.9	U		
Selenium			1.73	U	1.73	U	1.73	U		
Silver			0.163	U	0.163	U	0.163	U		
Sodium			29.3	U	29.3	U	29.3	U		
Thallium			0.381	J	0.143	U	0.143	U		
Vanadium			1.57	U	1.57	U	1.57	U		
Zinc			3.41	U	3.41	U	3.41	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1838809-24		R1838809-26					
Date Analyzed :			06/10/24 17:23		06/10/24 18:20					
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		Q
Aluminum			3.27	U	3.27	U				
Antimony			1.32	J	1.38	J				
Arsenic			0.165	U	0.165	U				
Barium			0.173	U	0.173	U				
Beryllium			0.107	U	0.107	U				
Cadmium			0.0599	U	0.0599	U				
Calcium			39.4	U	39.4	U				
Chromium			0.178	U	0.178	U				
Cobalt			0.163	U	0.163	U				
Copper			0.384	U	0.384	U				
Iron			19.1	U	19.1	U				
Lead			0.343	U	0.343	U				
Magnesium			24.2	U	24.2	U				
Manganese			0.440	U	0.440	U				
Nickel			0.556	U	0.556	U				
Potassium			30.9	U	30.9	U				
Selenium			1.73	U	1.73	U				
Silver			0.163	U	0.163	U				
Sodium			29.3	U	29.3	U				
Thallium			0.143	U	0.143	U				
Vanadium			1.57	U	1.57	U				
Zinc			3.41	U	3.41	U				

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1839557-2		R1839557-5		R1839557-7		R1839557-10			
Date Analyzed :	06/11/24 14:04		06/11/24 14:29		06/11/24 15:29		06/11/24 16:39			
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		Q
Magnesium	24.2	U	24.2	U	24.2	U	24.2	U		
Potassium	30.9	U	30.9	U	30.9	U	30.9	U		
Sodium	29.3	U	29.3	U	29.3	U	29.3	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1839557-12		R1839557-14		R1839557-16			
Date Analyzed :			06/11/24 17:34		06/11/24 18:38		06/11/24 19:24			
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		Q
Magnesium			24.2	U	24.2	U	24.2	U		
Potassium			30.9	U	30.9	U	30.9	U		
Sodium			29.3	U	29.3	U	29.3	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1839557-18		R1839557-20					
Date Analyzed :			06/11/24 20:30		06/11/24 21:33					
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		Q
Magnesium			24.2	U	24.2	U				
Potassium			30.9	U	30.9	U				
Sodium			29.3	U	29.3	U				

Form 4a
Interference Check Sample

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ	**Concentration Units**	: ug/l

	True		Initial Found				Final Found			
Lab ID :			R1838809-3							
Analysis Date :			06/10/24 08:19							
Analyte	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	100000		105000	105						
Antimony			0.184							
Arsenic			0.396							
Barium			1.36							
Beryllium			0.0347							
Cadmium			0.316							
Calcium	300000		290000	97						
Chromium			1.74							
Cobalt			1.99							
Copper			0.927							
Iron	250000		225000	90						
Lead			1.61							
Magnesium	100000		75200	75						
Manganese			4.60							
Nickel			2.68							
Potassium	100000		83100	83						
Selenium			4.58							
Silver			0.0208							
Sodium	250000		211000	84						
Thallium			0.110							
Vanadium			0.0939							
Zinc			2.56							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ	**Concentration Units**	: ug/l

	True		Initial Found				Final Found			
Lab ID :			R1838809-3							
Analysis Date :			06/10/24 08:19							
Analyte	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	100000		105000	105						
Antimony			0.184							
Arsenic			0.396							
Barium			1.36							
Beryllium			0.0347							
Cadmium			0.316							
Calcium	300000		290000	97						
Chromium			1.74							
Cobalt			1.99							
Copper			0.927							
Iron	250000		225000	90						
Lead			1.61							
Magnesium	100000		75200	75						
Manganese			4.60							
Nickel			2.68							
Potassium	100000		83100	83						
Selenium			4.58							
Silver			0.0208							
Sodium	250000		211000	84						
Thallium			0.110							
Vanadium			0.0939							
Zinc			2.56							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ	**Concentration Units**	: ug/l

	True		Initial Found				Final Found			
Lab ID :			R1839557-3							
Analysis Date :			06/11/24 14:15							
Analyte	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Magnesium	100000		90900	91						
Potassium	100000		94800	95						
Sodium	250000		232000	93						

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2430210-03		
Matrix Spike	: WG1930656-3	**MS Analysis Date**	: 06/10/24 20:02
Matrix Spike Dup	: WG1930656-4	**MSD Analysis Date**	: 06/10/24 20:06

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Dissolved	0.408	2	2.62	111	2	2.44	102	7	75-125	20
Antimony, Dissolved	ND	0.5	0.5278	106	0.5	0.5210	104	1	75-125	20
Arsenic, Dissolved	ND	0.12	0.1262	105	0.12	0.1252	104	1	75-125	20
Barium, Dissolved	0.09307	2	2.348	113	2	2.310	111	2	75-125	20
Beryllium, Dissolved	ND	0.05	0.05213	104	0.05	0.05219	104	0	75-125	20
Cadmium, Dissolved	ND	0.053	0.05594	106	0.053	0.05584	105	0	75-125	20
Calcium, Dissolved	89.0	10	104.	150 Q	10	102.	130 Q	2	75-125	20
Chromium, Dissolved	0.00138	0.2	0.2232	111	0.2	0.2236	111	0	75-125	20
Cobalt, Dissolved	0.00154	0.5	0.5339	106	0.5	0.5322	106	0	75-125	20
Copper, Dissolved	0.00284	0.25	0.2615	103	0.25	0.2554	101	2	75-125	20
Iron, Dissolved	0.662	1	1.68	102	1	1.64	98	2	75-125	20
Lead, Dissolved	ND	0.53	0.5585	105	0.53	0.5606	106	0	75-125	20
Manganese, Dissolved	0.08417	0.5	0.6253	108	0.5	0.6256	108	0	75-125	20
Nickel, Dissolved	0.00350	0.5	0.5517	110	0.5	0.5469	109	1	75-125	20
Potassium, Dissolved	18.9	10	30.8	119	10	30.2	113	2	75-125	20
Selenium, Dissolved	ND	0.12	0.121	101	0.12	0.134	112	10	75-125	20
Silver, Dissolved	ND	0.05	0.05234	105	0.05	0.05259	105	0	75-125	20
Sodium, Dissolved	48.4	10	69.0	206 Q	10	66.0	176 Q	4	75-125	20
Thallium, Dissolved	ND	0.12	0.1041	87	0.12	0.09974	83	4	75-125	20
Vanadium, Dissolved	ND	0.5	0.5448	109	0.5	0.5539	111	2	75-125	20
Zinc, Dissolved	0.00464J	0.5	0.5150	103	0.5	0.5168	103	0	75-125	20

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix**	: WATER
Lab Sample ID	: L2430219-04		
Matrix Spike	: WG1930656-7	**MS Analysis Date**	: 06/10/24 20:25
Matrix Spike Dup	: WG1930656-8	**MSD Analysis Date**	: 06/10/24 20:30

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Dissolved	ND	2	2.24	112	2	2.27	114	1	75-125	20
Antimony, Dissolved	0.00052J	0.5	0.5009	100	0.5	0.5131	103	2	75-125	20
Arsenic, Dissolved	0.00017J	0.12	0.1220	102	0.12	0.1262	105	3	75-125	20
Barium, Dissolved	0.06716	2	2.282	111	2	2.338	114	2	75-125	20
Beryllium, Dissolved	ND	0.05	0.05193	104	0.05	0.05168	103	0	75-125	20
Cadmium, Dissolved	ND	0.053	0.05624	106	0.053	0.05741	108	2	75-125	20
Calcium, Dissolved	24.0	10	32.4	84	10	34.5	105	6	75-125	20
Chromium, Dissolved	0.00153	0.2	0.2210	110	0.2	0.2249	112	2	75-125	20
Cobalt, Dissolved	ND	0.5	0.5327	106	0.5	0.5412	108	2	75-125	20
Copper, Dissolved	ND	0.25	0.2624	105	0.25	0.2654	106	1	75-125	20
Iron, Dissolved	ND	1	1.15	115	1	1.09	109	5	75-125	20
Lead, Dissolved	ND	0.53	0.5679	107	0.53	0.5661	107	0	75-125	20
Magnesium, Dissolved	13.6	10	24.5	109	10	24.9	113	2	75-125	20
Manganese, Dissolved	0.00087J	0.5	0.5341	107	0.5	0.5367	107	0	75-125	20
Nickel, Dissolved	0.00085J	0.5	0.5537	111	0.5	0.5420	108	2	75-125	20
Potassium, Dissolved	1.24	10	11.5	103	10	11.8	106	3	75-125	20
Selenium, Dissolved	ND	0.12	0.127	106	0.12	0.123	102	3	75-125	20
Silver, Dissolved	ND	0.05	0.05203	104	0.05	0.05121	102	2	75-125	20
Thallium, Dissolved	ND	0.12	0.1030	86	0.12	0.1033	86	0	75-125	20
Vanadium, Dissolved	ND	0.5	0.5466	109	0.5	0.5477	110	0	75-125	20
Zinc, Dissolved	ND	0.5	0.5179	104	0.5	0.5222	104	1	75-125	20

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix**	: WATER
Lab Sample ID	: L2430219-04		
Matrix Spike	: WG1930718-3	**MS Analysis Date**	: 06/10/24 15:47
Matrix Spike Dup	: WG1930718-4	**MSD Analysis Date**	: 06/10/24 15:52

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	0.0167	2	2.17	108	2	2.28	113	5	75-125	20
Antimony, Total	0.00079J	0.5	0.5020	100	0.5	0.5053	101	1	75-125	20
Arsenic, Total	ND	0.12	0.1300	108	0.12	0.1273	106	2	75-125	20
Barium, Total	0.06768	2	2.298	112	2	2.317	112	1	75-125	20
Beryllium, Total	ND	0.05	0.05228	104	0.05	0.05205	104	0	75-125	20
Cadmium, Total	ND	0.053	0.05655	107	0.053	0.05557	105	2	75-125	20
Calcium, Total	23.8	10	35.8	120	10	34.2	104	5	75-125	20
Chromium, Total	0.00625	0.2	0.2289	111	0.2	0.2263	110	1	75-125	20
Cobalt, Total	ND	0.5	0.5389	108	0.5	0.5389	108	0	75-125	20
Copper, Total	ND	0.25	0.2682	107	0.25	0.2599	104	3	75-125	20
Iron, Total	0.0635	1	1.15	109	1	1.15	109	0	75-125	20
Lead, Total	ND	0.53	0.5652	107	0.53	0.5671	107	0	75-125	20
Magnesium, Total	13.2	10	24.0	108	10	23.8	106	1	75-125	20
Manganese, Total	0.00437	0.5	0.5421	108	0.5	0.5406	107	0	75-125	20
Nickel, Total	0.00309	0.5	0.5566	111	0.5	0.5402	107	3	75-125	20
Potassium, Total	1.30	10	11.6	103	10	11.7	104	1	75-125	20
Selenium, Total	ND	0.12	0.120	100	0.12	0.119	99	1	75-125	20
Silver, Total	ND	0.05	0.05175	104	0.05	0.05165	103	0	75-125	20
Sodium, Total	59.9	10	68.0	81	10	68.5	86	1	75-125	20
Thallium, Total	ND	0.12	0.1048	87	0.12	0.1044	87	0	75-125	20
Vanadium, Total	ND	0.5	0.5429	108	0.5	0.5319	106	2	75-125	20
Zinc, Total	ND	0.5	0.5196	104	0.5	0.5216	104	0	75-125	20

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2430210-03		
Matrix Spike	: WG1930656-3	**MS Analysis Date**	: 06/11/24 17:51
Matrix Spike Dup	: WG1930656-4	**MSD Analysis Date**	: 06/11/24 17:56

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Magnesium, Dissolved	33.9	10	46.2	123	10	45.8	119	1	75-125	20

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix**	: WATER
Lab Sample ID	: L2430219-04		
Matrix Spike	: WG1930656-7	**MS Analysis Date**	: 06/11/24 18:15
Matrix Spike Dup	: WG1930656-8	**MSD Analysis Date**	: 06/11/24 18:19

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R		Spike Added (mg/l)	Spike Conc. (mg/l)	%R		RPD	Recovery Limits	RPD Limit
Sodium, Dissolved	51.6	10	70.8	192	Q	10	71.8	202	Q	1	75-125	20

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1930656-2	**LCS Analysis Date**	: 06/10/24 19:29
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Dissolved	2.00	2.27	114.					80-120	20
Antimony, Dissolved	0.500	0.503	100.					80-120	20
Arsenic, Dissolved	0.120	0.120	100.					80-120	20
Barium, Dissolved	2.00	2.25	112.					80-120	20
Beryllium, Dissolved	0.0500	0.0519	104.					80-120	20
Cadmium, Dissolved	0.0530	0.0564	106.					80-120	20
Calcium, Dissolved	10.0	11.1	111.					80-120	20
Chromium, Dissolved	0.200	0.223	112.					80-120	20
Cobalt, Dissolved	0.500	0.546	109.					80-120	20
Copper, Dissolved	0.250	0.258	103.					80-120	20
Iron, Dissolved	1.00	1.12	112.					80-120	20
Lead, Dissolved	0.530	0.571	108.					80-120	20
Magnesium, Dissolved	10.0	10.8	108.					80-120	20
Manganese, Dissolved	0.500	0.544	109.					80-120	20
Nickel, Dissolved	0.500	0.544	109.					80-120	20
Potassium, Dissolved	10.0	10.5	105.					80-120	20
Selenium, Dissolved	0.120	0.124	103.					80-120	20
Silver, Dissolved	0.0500	0.0524	105.					80-120	20
Sodium, Dissolved	10.0	11.0	110.					80-120	20
Thallium, Dissolved	0.120	0.104	86.					80-120	20
Vanadium, Dissolved	0.500	0.547	109.					80-120	20
Zinc, Dissolved	0.500	0.517	103.					80-120	20

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1930718-2	**LCS Analysis Date**	: 06/10/24 15:38
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Aluminum, Total	2.00	2.13	106.					80-120	20
Antimony, Total	0.500	0.494	99.					80-120	20
Arsenic, Total	0.120	0.123	103.					80-120	20
Barium, Total	2.00	2.22	111.					80-120	20
Beryllium, Total	0.0500	0.0512	102.					80-120	20
Cadmium, Total	0.0530	0.0544	103.					80-120	20
Calcium, Total	10.0	10.5	105.					80-120	20
Chromium, Total	0.200	0.220	110.					80-120	20
Cobalt, Total	0.500	0.532	106.					80-120	20
Copper, Total	0.250	0.259	104.					80-120	20
Iron, Total	1.00	1.12	112.					80-120	20
Lead, Total	0.530	0.545	103.					80-120	20
Magnesium, Total	10.0	9.82	98.					80-120	20
Manganese, Total	0.500	0.544	109.					80-120	20
Nickel, Total	0.500	0.551	110.					80-120	20
Potassium, Total	10.0	10.2	102.					80-120	20
Selenium, Total	0.120	0.127	106.					80-120	20
Silver, Total	0.0500	0.0513	103.					80-120	20
Sodium, Total	10.0	9.98	100.					80-120	20
Thallium, Total	0.120	0.101	84.					80-120	20
Vanadium, Total	0.500	0.542	108.					80-120	20
Zinc, Total	0.500	0.510	102.					80-120	20

Form 8
Serial Dilutions

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2430210-03	**Analysis Date**	: 06/10/24 19:57
Serial Dilution ID	: WG1930656-6	**Analysis Date**	: 06/10/24 20:49

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Aluminum, Dissolved	0.408	0.405	1	20
Barium, Dissolved	0.09307	0.09200	1	20
Calcium, Dissolved	89.0	90.8	2	20
Manganese, Dissolved	0.08417	0.08752	4	20
Potassium, Dissolved	18.9	19.2	2	20
Sodium, Dissolved	48.4	56.2	16	20

Form 8
Serial Dilutions

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix**	: WATER
Lab Sample ID	: L2430219-04	**Analysis Date**	: 06/10/24 20:21
Serial Dilution ID	: WG1930656-10	**Analysis Date**	: 06/10/24 20:39

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Barium, Dissolved	0.06716	0.06571	2	20
Calcium, Dissolved	24.0	25.0	4	20
Magnesium, Dissolved	13.6	14.1	4	20

Form 8
Serial Dilutions

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix**	: WATER
Lab Sample ID	: L2430219-04	**Analysis Date**	: 06/10/24 15:43
Serial Dilution ID	: WG1930718-6	**Analysis Date**	: 06/10/24 16:01

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Barium, Total	0.06768	0.06699	1	20
Calcium, Total	23.8	24.9	5	20
Magnesium, Total	13.2	13.8	5	20

Form 8
Serial Dilutions

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix**	: WATER
Lab Sample ID	: L2430219-04	**Analysis Date**	: 06/10/24 16:59
Serial Dilution ID	: WG1930718-6	**Analysis Date**	: 06/10/24 17:04

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Sodium, Total	59.9	59.8	0	20

Form 8
Serial Dilutions

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2430210-03	**Analysis Date**	: 06/11/24 17:47
Serial Dilution ID	: WG1930656-6	**Analysis Date**	: 06/11/24 18:05

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Magnesium, Dissolved	33.9	34.2	1	20

Form 8
Serial Dilutions

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix**	: WATER
Lab Sample ID	: L2430219-04	**Analysis Date**	: 06/11/24 18:10
Serial Dilution ID	: WG1930656-10	**Analysis Date**	: 06/11/24 18:29

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Sodium, Dissolved	51.6	59.3	15	20

Form 12
Preparation Log

Client	: **Alpha Geoscience**	**Lab Number**	: **L2430219**
Project Name	: **HUNTINGTON READY MIXED**	**Project Number**	: **20116**
Matrix	: **WATER**	**Prep Method**	: **EPA 3005A**

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2430219-01	06/06/24 14:13	-	50
L2430219-02	06/06/24 14:13	-	50
L2430219-03	06/06/24 14:13	-	50
L2430219-04	06/06/24 14:13	-	50
L2430219-05	06/06/24 14:13	-	50
L2430219-06	06/06/24 14:13	-	50
L2430219-07	06/06/24 14:13	-	50
L2430219-08	06/06/24 14:13	-	50
L2430219-09	06/06/24 14:13	-	50
L2430219-10	06/06/24 14:13	-	50
WG1930656-1	06/06/24 14:13	-	50
WG1930656-2	06/06/24 14:13	-	50
WG1930656-3	06/06/24 14:13	-	50
WG1930656-4	06/06/24 14:13	-	50
WG1930656-6	06/06/24 14:13	-	50
WG1930656-7	06/06/24 14:13	-	50
WG1930656-8	06/06/24 14:13	-	50
WG1930656-10	06/06/24 14:13	-	50

Form 12
Preparation Log

Client	:	**Alpha Geoscience**	**Lab Number**	:	**L2430219**
Project Name	:	**HUNTINGTON READY MIXED**	**Project Number**	:	**20116**
Matrix	:	**WATER**	**Prep Method**	:	**EPA 3005A**

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2430219-01	06/06/24 20:33	-	50
L2430219-02	06/06/24 20:33	-	50
L2430219-03	06/06/24 20:33	-	50
L2430219-04	06/06/24 20:33	-	50
L2430219-05	06/06/24 20:33	-	50
L2430219-06	06/06/24 20:33	-	50
L2430219-07	06/06/24 20:33	-	50
L2430219-08	06/06/24 20:33	-	50
L2430219-09	06/06/24 20:33	-	50
L2430219-10	06/06/24 20:33	-	50
WG1930718-1	06/06/24 20:33	-	50
WG1930718-2	06/06/24 20:33	-	50
WG1930718-3	06/06/24 20:33	-	50
WG1930718-4	06/06/24 20:33	-	50
WG1930718-6	06/06/24 20:33	-	50

Form 12
Preparation Log

Client	: **Alpha Geoscience**	**Lab Number**	: **L2430219**
Project Name	: **HUNTINGTON READY MIXED**	**Project Number**	: **20116**
Matrix	: **WATER**	**Prep Method**	: **EPA 3005A**

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2430219-01	06/06/24 14:13	-	50
L2430219-04	06/06/24 14:13	-	50
L2430219-06	06/06/24 14:13	-	50
L2430219-08	06/06/24 14:13	-	50
L2430219-09	06/06/24 14:13	-	50
WG1930656-3	06/06/24 14:13	-	50
WG1930656-4	06/06/24 14:13	-	50
WG1930656-6	06/06/24 14:13	-	50
WG1930656-7	06/06/24 14:13	-	50
WG1930656-8	06/06/24 14:13	-	50
WG1930656-10	06/06/24 14:13	-	50

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ	**Analysis Method**	: 1,6020B
Start Date	: 06/10/24 07:10	**End Date**	: 06/10/24 22:19

Sample Number	Dilution Factor	Analysis Time	Aluminum, Dissolved	Antimony, Dissolved	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Calcium, Dissolved	Chromium, Dissolved	Cobalt, Dissolved	Copper, Dissolved	Iron, Dissolved	Lead, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Potassium, Dissolved	Selenium, Dissolved	Silver, Dissolved	Sodium, Dissolved	Thallium, Dissolved	Vanadium, Dissolved	Zinc, Dissolved
R1838809-8 TUNE		07:10:00																						
R1838809-1 ICV	1	08:08:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-2 ICB	1	08:13:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-3 ICSA	1	08:19:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-4 CCV	1	08:33:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-5 CCB	1	08:38:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-6 CCV	1	10:32:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-7 CCB	1	10:37:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-9 CCV	1	11:34:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-10 CCB	1	11:39:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-11 CCV	1	11:54:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-12 CCB	1	11:59:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-13 CCV	1	12:52:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-14 CCB	1	12:57:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-15 CCV	1	13:54:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-16 CCB	1	14:00:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-17 CCV	1	14:54:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-18 CCB	1	14:59:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-19 CCV	1	15:24:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-20 CCB	1	15:28:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-21 CCV	1	16:20:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-22 CCB	1	16:25:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-23 CCV	1	17:18:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-24 CCB	1	17:23:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-25 CCV	1	18:16:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-26 CCB	1	18:20:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-27 CCV	1	19:14:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ	**Analysis Method**	: 1,6020B
Start Date	: 06/10/24 07:10	**End Date**	: 06/10/24 22:19

Sample Number	Dilution Factor	Analysis Time	Aluminum, Dissolved	Antimony, Dissolved	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Calcium, Dissolved	Chromium, Dissolved	Cobalt, Dissolved	Copper, Dissolved	Iron, Dissolved	Lead, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Potassium, Dissolved	Selenium, Dissolved	Silver, Dissolved	Sodium, Dissolved	Thallium, Dissolved	Vanadium, Dissolved	Zinc, Dissolved
R1838809-28 CCB	1	19:19:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1930656-1 BLANK	1	19:24:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1930656-2 LCS	10	19:29:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1930656-3 MS	10	20:02:05	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
WG1930656-4 MSD	10	20:06:48	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
R1838809-29 CCV	1	20:11:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-30 CCB	1	20:16:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2430219-04	1	20:21:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
WG1930656-7 MS	10	20:25:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
WG1930656-8 MSD	10	20:30:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
WG1930656-10 SERDIL	5	20:39:55				X			X						X									
WG1930656-6 SERDIL	5	20:49:21	X			X			X							X		X			X			
R1838809-31 CCV	1	21:08:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-32 CCB	1	21:13:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2430219-10	1	21:17:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2430219-01	1	21:27:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
L2430219-02	1	21:31:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2430219-03	1	21:36:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2430219-05	1	21:41:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2430219-06	1	21:46:06	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	X
L2430219-07	1	21:50:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2430219-08	1	21:55:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
L2430219-09	1	22:00:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
R1838809-33 CCV	1	22:04:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-34 CCB	1	22:09:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-35 CCV	1	22:14:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-36 CCB	1	22:19:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ	**Analysis Method**	: 1,6020B
Start Date	: 06/10/24 07:10	**End Date**	: 06/10/24 18:20

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1838809-8 TUNE		07:10:00																						
R1838809-1 ICV	1	08:08:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-2 ICB	1	08:13:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-3 ICSA	1	08:19:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-4 CCV	1	08:33:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-5 CCB	1	08:38:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-6 CCV	1	10:32:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-7 CCB	1	10:37:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-9 CCV	1	11:34:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-10 CCB	1	11:39:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-11 CCV	1	11:54:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-12 CCB	1	11:59:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-13 CCV	1	12:52:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-14 CCB	1	12:57:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-15 CCV	1	13:54:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-16 CCB	1	14:00:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-17 CCV	1	14:54:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-18 CCB	1	14:59:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-19 CCV	1	15:24:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-20 CCB	1	15:28:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1930718-1 BLANK	1	15:33:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1930718-2 LCS	10	15:38:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2430219-04	1	15:43:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
WG1930718-3 MS	10	15:47:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1930718-4 MSD	10	15:52:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1930718-6 SERDIL	5	16:01:46				X			X						X									
L2430219-01	1	16:06:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ	**Analysis Method**	: 1,6020B
Start Date	: 06/10/24 07:10	**End Date**	: 06/10/24 18:20

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
L2430219-02	1	16:11:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2430219-03	1	16:15:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-21 CCV	1	16:20:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-22 CCB	1	16:25:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2430219-10	1	16:31:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2430219-05	1	16:36:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2430219-06	1	16:40:53	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	X
L2430219-07	1	16:45:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2430219-08	1	16:50:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
L2430219-09	1	16:55:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
L2430219-04	10	16:59:42																			X			
WG1930718-6 SERDIL	50	17:04:23																			X			
L2430219-01	10	17:09:05																X						
L2430219-06	10	17:13:46													X			X						
R1838809-23 CCV	1	17:18:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-24 CCB	1	17:23:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2430219-08	10	18:01:59																X						
L2430219-09	10	18:06:41																X						
R1838809-25 CCV	1	18:16:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1838809-26 CCB	1	18:20:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ	**Analysis Method**	: 1,6020B
Start Date	: 06/11/24 06:52	**End Date**	: 06/11/24 21:33

Sample Number	Dilution Factor	Analysis Time	Magnesium, Dissolved	Potassium, Dissolved	Sodium, Dissolved
R1839557-8 TUNE		06:52:00			
R1839557-1 ICV	1	13:59:21	X	X	X
R1839557-2 ICB	1	14:04:05	X	X	X
R1839557-3 ICSA	1	14:15:33	X	X	X
R1839557-4 CCV	1	14:24:57	X	X	X
R1839557-5 CCB	1	14:29:41	X	X	X
R1839557-6 CCV	1	15:24:49	X	X	X
R1839557-7 CCB	1	15:29:34	X	X	X
R1839557-9 CCV	1	16:34:16	X	X	X
R1839557-10 CCB	1	16:39:01	X	X	X
R1839557-11 CCV	1	17:30:10	X	X	X
R1839557-12 CCB	1	17:34:55	X	X	X
WG1930656-3 MS	10	17:51:43	X		
WG1930656-4 MSD	10	17:56:23	X		
WG1930656-6 SERDIL	5	18:05:45	X		
L2430219-04	1	18:10:26			X
WG1930656-7 MS	10	18:15:07			X
WG1930656-8 MSD	10	18:19:49			X
WG1930656-10 SERDIL	5	18:29:14			X
R1839557-13 CCV	1	18:33:57	X	X	X
R1839557-14 CCB	1	18:38:42	X	X	X
L2430219-01	1	18:58:34		X	
L2430219-08	1	19:09:56		X	
L2430219-09	1	19:14:38		X	
R1839557-15 CCV	1	19:19:19	X	X	X
R1839557-16 CCB	1	19:24:04	X	X	X
R1839557-17 CCV	1	20:25:36	X	X	X

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ	**Analysis Method**	: 1,6020B
Start Date	: 06/11/24 06:52	**End Date**	: 06/11/24 21:33

Sample Number	Dilution Factor	Analysis Time	Magnesium, Dissolved	Potassium, Dissolved	Sodium, Dissolved
R1839557-18 CCB	1	20:30:21	X	X	X
L2430219-06	1	20:46:18	X	X	
R1839557-19 CCV	1	21:28:37	X	X	X
R1839557-20 CCB	1	21:33:23	X	X	X

Form 14
ICP-MS Tune

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab Sample ID	: R1838809-8	**Analysis Date**	: 06/10/24 07:10
ICP-MS Instrument	: iCAP RQ		

Mass Element	Avg Measured Mass (amu)	Avg. Peak Width at 10% Peak Height (amu)	%RSD
59 Co	58.9487	0.685	0.7
115 In	114.8954	0.702	1.7
7 Li	7.0316	0.696	0.7
238 U	238.0505	0.701	1.1

Form 14
ICP-MS Tune

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab Sample ID	: R1838809-8	**Analysis Date**	: 06/10/24 07:10
ICP-MS Instrument	: iCAP RQ		

Mass Element	Avg Measured Mass (amu)	Avg. Peak Width at 10% Peak Height (amu)	%RSD
59 Co	58.9487	0.685	0.7
115 In	114.8954	0.702	1.7
7 Li	7.0316	0.696	0.7
238 U	238.0505	0.701	1.1

Form 14
ICP-MS Tune

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab Sample ID	: R1839557-8	**Analysis Date**	: 06/11/24 06:52
ICP-MS Instrument	: iCAP RQ		

Mass Element	Avg Measured Mass (amu)	Avg. Peak Width at 10% Peak Height (amu)	%RSD
59 Co	58.9457	0.684	0.6
115 In	114.9022	0.698	1.7
7 Li	7.0265	0.696	0.8
238 U	238.059	0.697	1.3

Form 15
ICP-MS Internal Standards Relative Intensity Summary

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ	**Analysis Method**	: 1,6020B
Start Date	: 06/10/24	**End Date**	: 06/10/24

Sample #	Time	Internal Standards %RI For:				
		Lithium	Scandium	Ge	In	Bismuth
R1838809-1 ICV	08:08:36	94	98	101	99	98
R1838809-2 ICB	08:13:20	97	103	101	101	102
R1838809-3 ICSA	08:19:24	83	106	101	77	78
R1838809-4 CCV	08:33:31	92	100	99	98	98
R1838809-5 CCB	08:38:16	93	104	100	99	102
R1838809-6 CCV	10:32:49	90	104	101	97	100
R1838809-7 CCB	10:37:34	91	99	99	100	103
R1838809-9 CCV	11:34:43	90	103	102	98	101
R1838809-10 CCB	11:39:28	91	100	101	101	103
R1838809-11 CCV	11:54:12	91	105	103	100	103
R1838809-12 CCB	11:59:52	92	101	101	102	104
R1838809-13 CCV	12:52:47	89	97	102	98	100
R1838809-14 CCB	12:57:32	91	107	101	101	103
R1838809-15 CCV	13:54:53	89	102	102	100	103
R1838809-16 CCB	14:00:50	89	104	98	102	104
R1838809-17 CCV	14:54:38	89	105	103	101	103
R1838809-18 CCB	14:59:23	90	103	99	101	105
R1838809-19 CCV	15:24:07	89	112	100	101	101
R1838809-20 CCB	15:28:52	90	95	100	103	106
R1838809-21 CCV	16:20:33	88	97	101	100	102
R1838809-22 CCB	16:25:18	90	105	100	104	108
R1838809-23 CCV	17:18:28	89	109	104	103	104
R1838809-24 CCB	17:23:14	92	88	101	104	111
R1838809-25 CCV	18:16:06	88	97	103	103	105
R1838809-26 CCB	18:20:52	90	106	103	104	109
R1838809-27 CCV	19:14:51	88	110	104	102	104
R1838809-28 CCB	19:19:37	89	102	102	104	109

Form 15
ICP-MS Internal Standards Relative Intensity Summary

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ	**Analysis Method**	: 1,6020B
Start Date	: 06/10/24	**End Date**	: 06/10/24

Sample #	Time	Internal Standards %RI For:				
		Lithium	Scandium	Ge	In	Bismuth
WG1930656-1 BLANK	19:24:24	90	101	104	106	112
WG1930656-2 LCS	19:29:06	90	108	103	107	109
WG1930656-3 MS	20:02:05	90	107	107	105	106
WG1930656-4 MSD	20:06:48	90	109	104	105	109
R1838809-29 CCV	20:11:31	88	107	101	102	107
R1838809-30 CCB	20:16:17	90	105	101	106	112
L2430219-04	20:21:04	87	100	107	100	105
WG1930656-7 MS	20:25:47	90	96	103	107	108
WG1930656-8 MSD	20:30:29	90	108	106	107	110
WG1930656-10 SERDIL	20:39:55	89	98	106	105	111
WG1930656-6 SERDIL	20:49:21	88	108	104	104	107
R1838809-31 CCV	21:08:13	88	104	102	102	106
R1838809-32 CCB	21:13:00	89	104	101	106	110
L2430219-10	21:17:47	91	101	102	106	115
L2430219-01	21:27:14	88	101	107	101	102
L2430219-02	21:31:57	88	104	103	101	104
L2430219-03	21:36:40	88	95	101	98	101
L2430219-05	21:41:23	90	98	104	106	107
L2430219-06	21:46:06	88	109	105	100	97
L2430219-07	21:50:49	89	108	104	102	100
L2430219-08	21:55:33	90	110	107	102	103
L2430219-09	22:00:16	89	105	106	101	104
R1838809-33 CCV	22:04:59	90	103	101	103	107
R1838809-34 CCB	22:09:46	93	106	100	105	108
R1838809-35 CCV	22:14:33	90	108	100	103	107
R1838809-36 CCB	22:19:19	92	105	100	106	112

Form 15
ICP-MS Internal Standards Relative Intensity Summary

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ	**Analysis Method**	: 1,6020B
Start Date	: 06/10/24	**End Date**	: 06/10/24

Sample #	Time	Internal Standards %RI For:				
		Lithium	Scandium	Ge	In	Bismuth
R1838809-1 ICV	08:08:36	94	98	101	99	98
R1838809-2 ICB	08:13:20	97	103	101	101	102
R1838809-3 ICSA	08:19:24	83	106	101	77	78
R1838809-4 CCV	08:33:31	92	100	99	98	98
R1838809-5 CCB	08:38:16	93	104	100	99	102
R1838809-6 CCV	10:32:49	90	104	101	97	100
R1838809-7 CCB	10:37:34	91	99	99	100	103
R1838809-9 CCV	11:34:43	90	103	102	98	101
R1838809-10 CCB	11:39:28	91	100	101	101	103
R1838809-11 CCV	11:54:12	91	105	103	100	103
R1838809-12 CCB	11:59:52	92	101	101	102	104
R1838809-13 CCV	12:52:47	89	97	102	98	100
R1838809-14 CCB	12:57:32	91	107	101	101	103
R1838809-15 CCV	13:54:53	89	102	102	100	103
R1838809-16 CCB	14:00:50	89	104	98	102	104
R1838809-17 CCV	14:54:38	89	105	103	101	103
R1838809-18 CCB	14:59:23	90	103	99	101	105
R1838809-19 CCV	15:24:07	89	112	100	101	101
R1838809-20 CCB	15:28:52	90	95	100	103	106
WG1930718-1 BLANK	15:33:39	90	106	101	103	108
WG1930718-2 LCS	15:38:22	89	99	102	105	106
L2430219-04	15:43:03	86	114	105	102	104
WG1930718-3 MS	15:47:43	89	108	104	106	106
WG1930718-4 MSD	15:52:24	88	103	104	103	106
WG1930718-6 SERDIL	16:01:46	87	101	104	102	106
L2430219-01	16:06:27	85	104	104	97	96
L2430219-02	16:11:09	88	108	103	99	102

Form 15
ICP-MS Internal Standards Relative Intensity Summary

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ	**Analysis Method**	: 1,6020B
Start Date	: 06/10/24	**End Date**	: 06/10/24

Sample #	Time	Internal Standards %RI For:				
		Lithium	Scandium	Ge	In	Bismuth
L2430219-03	16:15:51	86	102	102	98	98
R1838809-21 CCV	16:20:33	88	97	101	100	102
R1838809-22 CCB	16:25:18	90	105	100	104	108
L2430219-10	16:31:30	92	102	101	104	109
L2430219-05	16:36:10	90	110	104	104	108
L2430219-06	16:40:53	86	103	107	99	98
L2430219-07	16:45:36	87	104	104	98	100
L2430219-08	16:50:19	87	110	106	100	101
L2430219-09	16:55:00	88	99	108	100	102
L2430219-04	16:59:42	91	97	103	106	108
WG1930718-6 SERDIL	17:04:23	91	95	102	104	111
L2430219-01	17:09:05	91	104	102	102	108
L2430219-06	17:13:46	91	107	103	103	107
R1838809-23 CCV	17:18:28	89	109	104	103	104
R1838809-24 CCB	17:23:14	92	88	101	104	111
L2430219-08	18:01:59	90	101	103	105	108
L2430219-09	18:06:41	90	102	104	106	108
R1838809-25 CCV	18:16:06	88	97	103	103	105
R1838809-26 CCB	18:20:52	90	106	103	104	109

Form 15
ICP-MS Internal Standards Relative Intensity Summary

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ	**Analysis Method**	: 1,6020B
Start Date	: 06/11/24	**End Date**	: 06/11/24

Sample #	Time	Internal Standards %RI For:				
		Lithium	Scandium	Ge	In	Bismuth
R1839557-1 ICV	13:59:21	98	98	102	99	96
R1839557-2 ICB	14:04:05	100	98	102	104	100
R1839557-3 ICSA	14:15:33	88	101	104	78	77
R1839557-4 CCV	14:24:57	95	101	101	97	92
R1839557-5 CCB	14:29:41	96	97	99	99	95
R1839557-6 CCV	15:24:49	96	102	102	98	94
R1839557-7 CCB	15:29:34	96	97	98	97	97
R1839557-9 CCV	16:34:16	90	97	93	88	91
R1839557-10 CCB	16:39:01	92	92	92	95	94
R1839557-11 CCV	17:30:10	98	96	102	98	94
R1839557-12 CCB	17:34:55	98	98	98	97	96
WG1930656-3 MS	17:51:43	99	102	102	98	91
WG1930656-4 MSD	17:56:23	99	97	103	98	93
WG1930656-6 SERDIL	18:05:45	97	98	102	97	93
L2430219-04	18:10:26	97	108	107	96	92
WG1930656-7 MS	18:15:07	99	102	103	99	95
WG1930656-8 MSD	18:19:49	98	102	101	99	96
WG1930656-10 SERDIL	18:29:14	98	102	103	100	96
R1839557-13 CCV	18:33:57	97	103	102	98	94
R1839557-14 CCB	18:38:42	99	101	99	99	97
L2430219-01	18:58:34	97	103	108	94	90
L2430219-08	19:09:56	97	103	104	93	88
L2430219-09	19:14:38	97	104	106	94	90
R1839557-15 CCV	19:19:19	97	94	101	95	92
R1839557-16 CCB	19:24:04	100	101	100	98	95
R1839557-17 CCV	20:25:36	98	102	101	96	94
R1839557-18 CCB	20:30:21	100	99	100	99	97

Form 15
ICP-MS Internal Standards Relative Intensity Summary

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: ICPMSRQ	**Analysis Method**	: 1,6020B
Start Date	: 06/11/24	**End Date**	: 06/11/24

Sample #	Time	Internal Standards %RI For:				
		Lithium	Scandium	Ge	In	Bismuth
L2430219-06	20:46:18	95	97	104	92	86
R1839557-19 CCV	21:28:37	97	100	101	96	93
R1839557-20 CCB	21:33:23	98	98	99	98	98

Date Created: 01/22/21
Created By: Jason Hebert
File: PM9836-1
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METALS by 6020B (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum, Total	7429-90-5	0.01	0.00327	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Antimony, Total	7440-36-0	0.004	0.000429	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Arsenic, Total	7440-38-2	0.0005	0.000165	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Barium, Total	7440-39-3	0.0005	0.000173	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Beryllium, Total	7440-41-7	0.0005	0.000107	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cadmium, Total	7440-43-9	0.0002	0.0000599	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Calcium, Total	7440-70-2	0.1	0.0394	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Chromium, Total	7440-47-3	0.001	0.000178	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cobalt, Total	7440-48-4	0.0005	0.000163	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Copper, Total	7440-50-8	0.001	0.000384	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Lithium, Total	7439-93-2	0.001	0.000083	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Iron, Total	7439-89-6	0.05	0.0191	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Lead, Total	7439-92-1	0.001	0.000343	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Magnesium, Total	7439-95-4	0.07	0.0242	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Manganese, Total	7439-96-5	0.001	0.00044	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Nickel, Total	7440-02-0	0.002	0.000556	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Potassium, Total	7440-09-7	0.1	0.0309	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Selenium, Total	7782-49-2	0.005	0.00173	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Silver, Total	7440-22-4	0.0004	0.000163	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Sodium, Total	7440-23-5	0.1	0.0293	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Thallium, Total	7440-28-0	0.0005	0.000143	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Vanadium, Total	7440-62-2	0.005	0.00157	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Zinc, Total	7440-66-6	0.01	0.00341	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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File: PM9837-1
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METALS by 6020B (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum, Total	7429-90-5	10	1.48	mg/kg	48-151	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Antimony, Total	7440-36-0	0.16	0.01352	mg/kg	1-208	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Arsenic, Total	7440-38-2	0.05	0.0066	mg/kg	79-121	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Barium, Total	7440-39-3	0.3	0.02112	mg/kg	83-117	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Beryllium, Total	7440-41-7	0.03	0.00872	mg/kg	83-117	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Cadmium, Total	7440-43-9	0.02	0.00264	mg/kg	83-117	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Calcium, Total	7440-70-2	50	6.08	mg/kg	81-119	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Chromium, Total	7440-47-3	0.2	0.0468	mg/kg	80-120	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Cobalt, Total	7440-48-4	0.05	0.00532	mg/kg	84-115	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Copper, Total	7440-50-8	0.2	0.0194	mg/kg	81-118	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Iron, Total	7439-89-6	20	2.06	mg/kg	45-155	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Lead, Total	7439-92-1	0.06	0.0146	mg/kg	81-117	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Magnesium, Total	7439-95-4	10	1.232	mg/kg	76-124	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Manganese, Total	7439-96-5	0.2	0.0444	mg/kg	81-117	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Nickel, Total	7440-02-0	0.1	0.02672	mg/kg	83-117	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Potassium, Total	7440-09-7	10	1.588	mg/kg	71-129	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Selenium, Total	7782-49-2	0.2	0.0756	mg/kg	78-122	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Silver, Total	7440-22-4	0.05	0.00488	mg/kg	75-124	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Sodium, Total	7440-23-5	15	1.172	mg/kg	72-127	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Thallium, Total	7440-28-0	0.02	0.00516	mg/kg	80-120	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Vanadium, Total	7440-62-2	0.1	0.03792	mg/kg	78-122	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Zinc, Total	7440-66-6	1	0.26	mg/kg	82-118	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

System

Start time:	6/10/2024 7:10:55 AM
Instrument:	iCAP RQ
Operator:	ALPHALAB\ICPMSRQ
Template:	STD_DEF
Instrument Serial Number:	RQ01904
Last Autotune:	Autotune-!CaliTune STD-100V-20240322-152811806.imatdat
Solution:	No solution specified

Sensitivity & Stability Test

Result	Runs	Sweeps
Passed	5	10

Sensitivity

Analyte	Result	Value	Condition	Limit
Bkg4.5	Passed	5.4 CPS	Less than	10.0 CPS
Bkg220.7	Passed	0.0 CPS	Less than	10.0 CPS
7Li	Passed	51,242.0 CPS	Greater than	10,000.0 CPS
59Co	Passed	154,841.0 CPS	Greater than	1,000.0 CPS
238U	Passed	79,720.0 CPS	Greater than	20,000.0 CPS
140Ce.16O/140Ce	Passed	0.0249	Less than	0.025
137Ba++/137Ba	Passed	0.0214	Less than	0.034
115In	Passed	113,499.0 CPS	Greater than	5,000.0 CPS

Stability

Analyte	Value	Limit
7Li	0.7%	5
59Co	0.7%	5
238U	1.1%	5
115In	1.7%	5

Mass Calibration Test

Result	Channels	Dwell	MeasureWidth	PointSpacing	Sweeps
Passed	75	0.04	1.5	0.02	10

Analyte	Result	Centroid Mass [u]	Offset	Peak width [u]	Peak width min [u]	Peak width max [u]
7Li	Passed	7.0316	0.0156	0.696	0.600	0.900
59Co	Passed	58.9487	0.0155	0.685	0.600	0.900
115In	Passed	114.8954	0.0085	0.702	0.600	0.900
238U	Passed	238.0505	0.0002	0.701	0.600	0.900

Tune Settings

Parameter	Value
Additional Gas Flow 1	0.00
Additional Gas Flow 2	0.00
Additional Gas Flow 3	0.00
Angular Deflection	-382.40
Auxilliary Flow	0.80
CCT Bias	-3.50
CCT Entry Lens	-102.01
CCT Exit Lens	-160.01
CCT Focus Lens	-1.99
CCT1 Flow	0.00
CCT1 Shut-Off Valve	0.00
CCT2 Flow	0.00
CCT2 Shut-Off Valve	0.00
Cool Flow	14.00
D1 Lens	-210.01
D2 Lens	-80.00
Deflection Entry Lens	-35.01
Dry Pump Speed	100.00
Extraction Lens 1 Negative	0.00
Extraction Lens 1 Polarity	0.00
Extraction Lens 1 Positive	0.00
Extraction Lens 2	-132.84
Focus Lens	21.00
Nebulizer Flow	0.94
Peristaltic Pump Speed	17.00
Plasma Power	1549.58
Pole Bias	-0.93
Quad Entry Lens	-30.79
Sampling Depth	5.00
Spray Chamber Temperature	2.68
Torch Horizontal Position	-0.18
Torch Vertical Position	-1.04
Virtual CCT Mass Maximum Dac Limit Set	4095.00
Virtual CCT Mass parameter b	0.65
Virtual CCT Mass to Dac Factor	130.00
Virtual CCT Mass to Dac Offset	-45.00

Vacuum Check

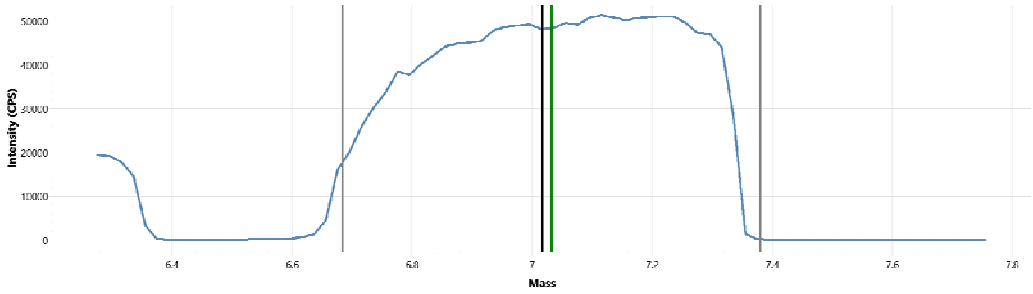
Parameter	Result	Value
Analyzer Pressure	Vacuum ok	2.007e-7
Interface Pressure		1.546e+0

Detector Voltages

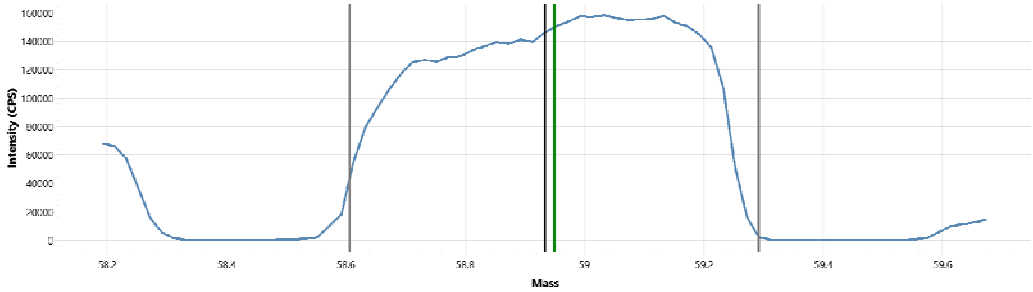
Analog	Counting
-2400.00	1450.00

Mass Calibration Peaks

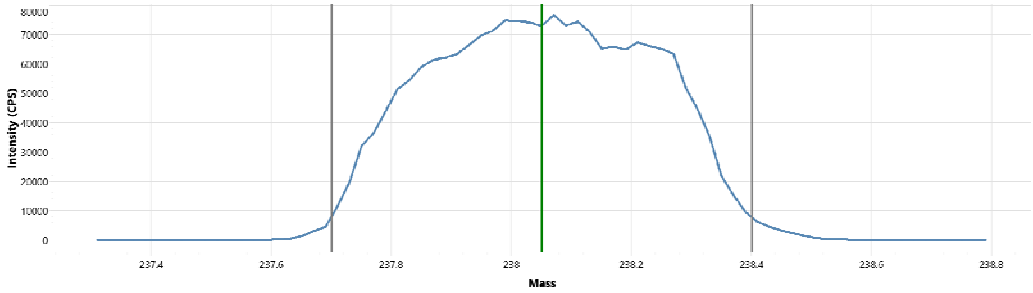
Analyte: 7Li



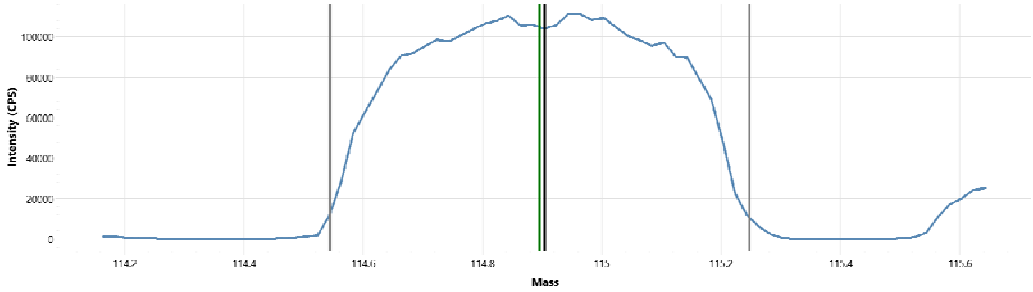
Analyte: 59Co



Analyte: 238U



Analyte: 115In



Performance Report

System

Start time:	6/11/2024 6:52:53 AM
Instrument:	iCAP RQ
Operator:	ALPHALAB\ICPMSRQ
Template:	STD_DEF
Instrument Serial Number:	RQ01904
Last Autotune:	Autotune-!CaliTune STD-100V-20240322-152811806.imatdat
Solution:	No solution specified

Sensitivity & Stability Test

Result	Runs	Sweeps
Passed	5	10

Sensitivity

Analyte	Result	Value	Condition	Limit
Bkg4.5	Passed	7.6 CPS	Less than	10.0 CPS
Bkg220.7	Passed	0.2 CPS	Less than	10.0 CPS
7Li	Passed	45,987.0 CPS	Greater than	10,000.0 CPS
59Co	Passed	151,798.0 CPS	Greater than	1,000.0 CPS
238U	Passed	98,725.0 CPS	Greater than	20,000.0 CPS
140Ce.16O/140Ce	Passed	0.0239	Less than	0.025
137Ba++/137Ba	Passed	0.0168	Less than	0.034
115In	Passed	121,792.0 CPS	Greater than	5,000.0 CPS

Stability

Analyte	Value	Limit
7Li	0.8%	5
59Co	0.6%	5
238U	1.3%	5
115In	1.7%	5

Mass Calibration Test

Result	Channels	Dwell	MeasureWidth	PointSpacing	Sweeps
Passed	75	0.04	1.5	0.02	10

Analyte	Result	Centroid Mass [u]	Offset	Peak width [u]	Peak width min [u]	Peak width max [u]
7Li	Passed	7.0265	0.0105	0.696	0.600	0.900
59Co	Passed	58.9457	0.0125	0.684	0.600	0.900
115In	Passed	114.9022	0.0017	0.698	0.600	0.900
238U	Passed	238.0590	0.0082	0.697	0.600	0.900

Tune Settings

Parameter	Value
Additional Gas Flow 1	0.00
Additional Gas Flow 2	0.00
Additional Gas Flow 3	0.00
Angular Deflection	-382.40
Auxilliary Flow	0.80
CCT Bias	-3.50
CCT Entry Lens	-102.01
CCT Exit Lens	-160.01
CCT Focus Lens	-1.99
CCT1 Flow	0.00
CCT1 Shut-Off Valve	0.00
CCT2 Flow	0.00
CCT2 Shut-Off Valve	0.00
Cool Flow	14.00
D1 Lens	-210.01
D2 Lens	-80.00
Deflection Entry Lens	-35.01
Dry Pump Speed	100.00
Extraction Lens 1 Negative	0.00
Extraction Lens 1 Polarity	0.00
Extraction Lens 1 Positive	0.00
Extraction Lens 2	-132.84
Focus Lens	21.00
Nebulizer Flow	0.94
Peristaltic Pump Speed	17.00
Plasma Power	1549.58
Pole Bias	-0.93
Quad Entry Lens	-30.79
Sampling Depth	5.00
Spray Chamber Temperature	2.68
Torch Horizontal Position	-0.18
Torch Vertical Position	-1.04
Virtual CCT Mass Maximum Dac Limit Set	4095.00
Virtual CCT Mass parameter b	0.65
Virtual CCT Mass to Dac Factor	130.00
Virtual CCT Mass to Dac Offset	-45.00

Vacuum Check

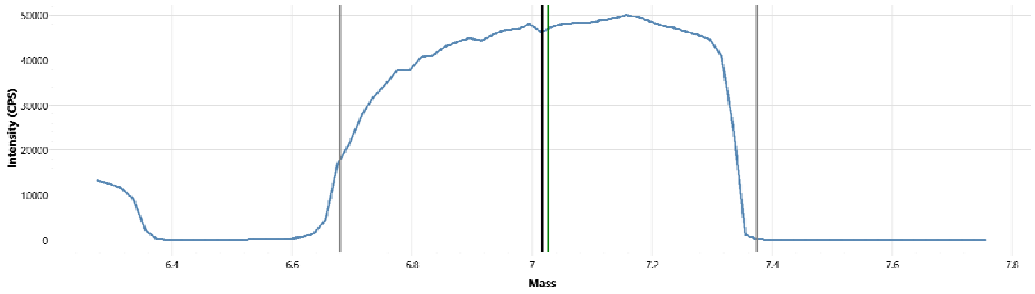
Parameter	Result	Value
Analyzer Pressure	Vacuum ok	2.053e-7
Interface Pressure		1.581e+0

Detector Voltages

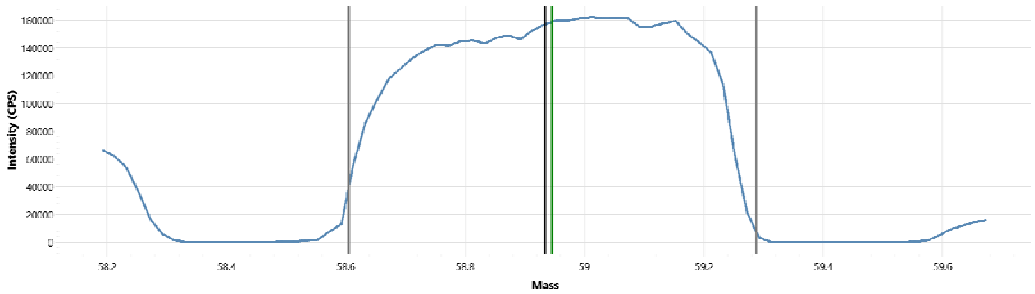
Analog	Counting
-2400.00	1450.00

Mass Calibration Peaks

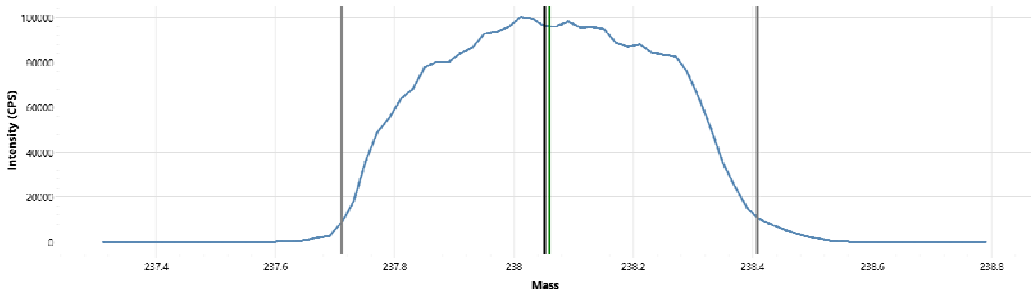
Analyte: 7Li



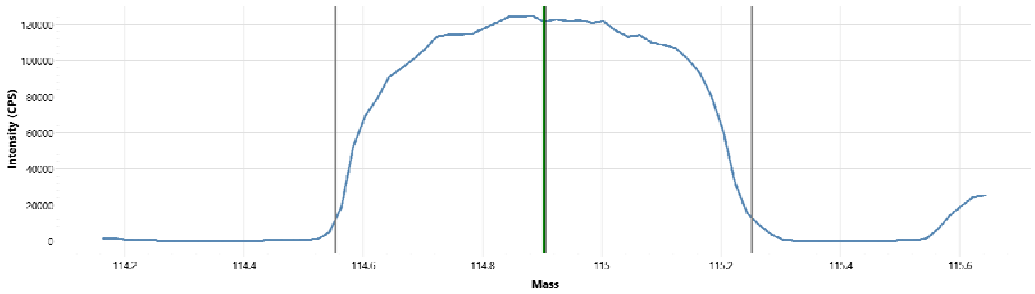
Analyte: 59Co



Analyte: 238U

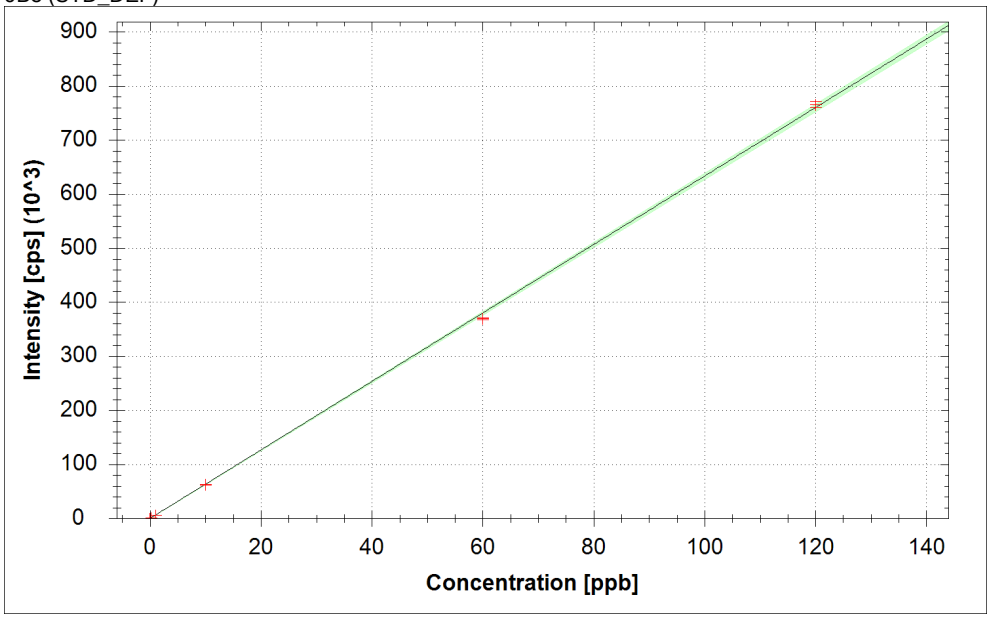


Analyte: 115In



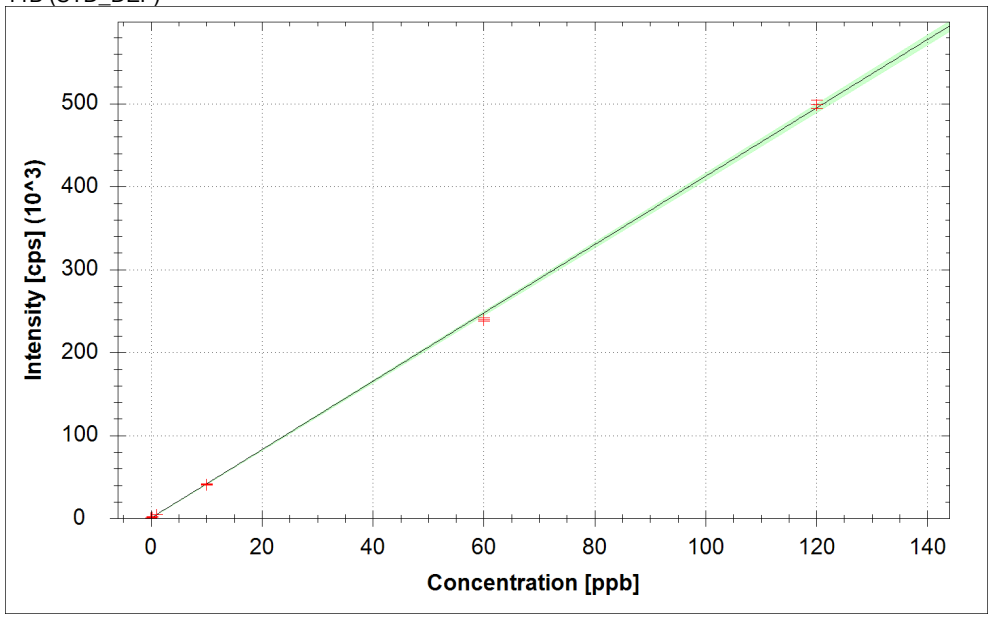
Calibration Curves:

9Be (STD_DEF)



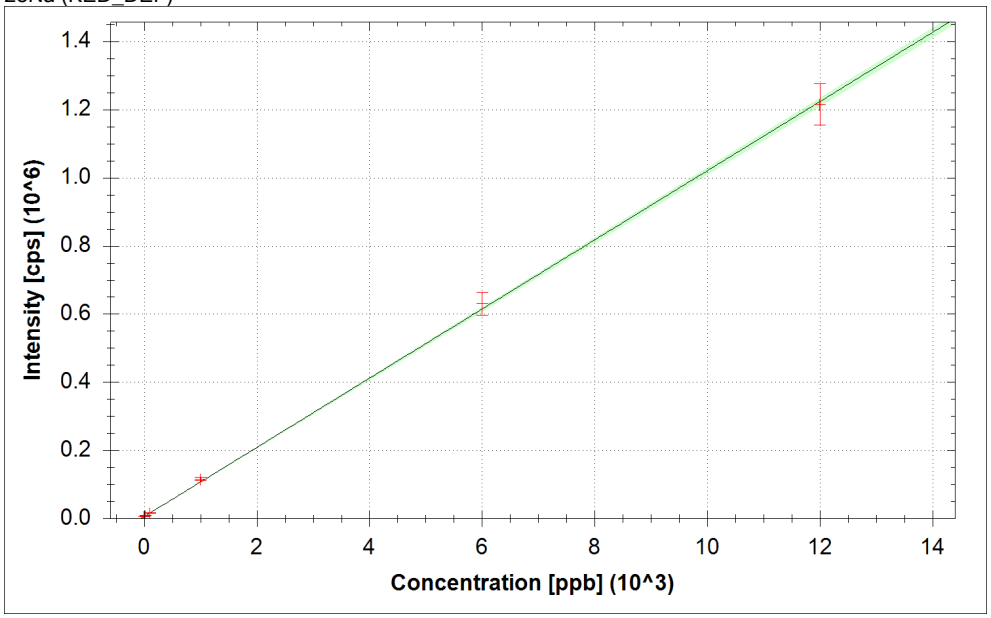
f(x) = 6330.6440*x + 144.9004
R² = 0.9997
BEC = 0.023 ppb
LoD = 0.0047 ppb

11B (STD_DEF)



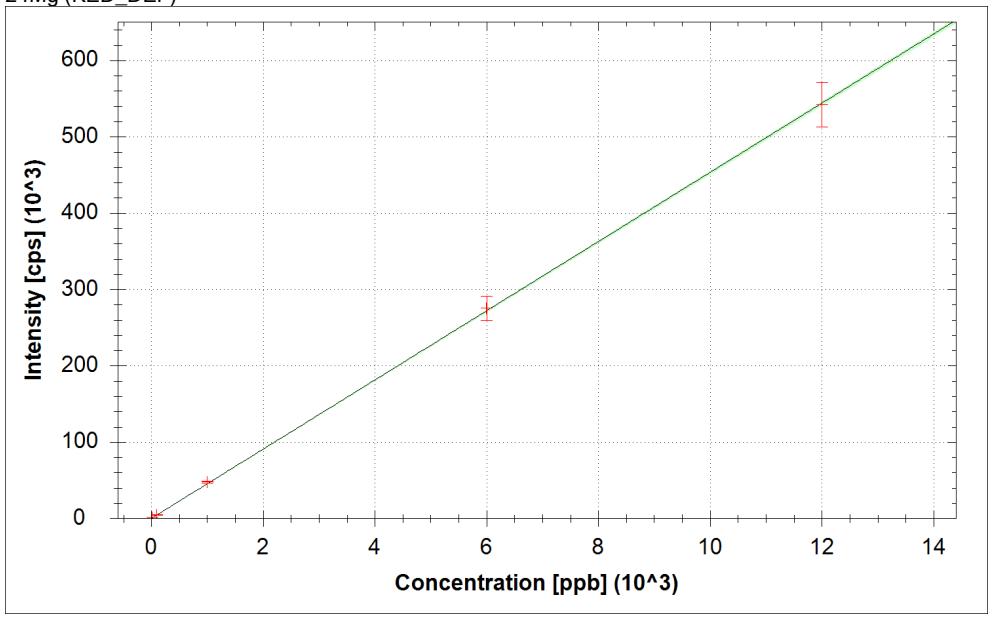
f(x) = 4118.4493*x + 527.3683
R² = 0.9996
BEC = 0.128 ppb
LoD = 0.0191 ppb

23Na (KED_DEF)



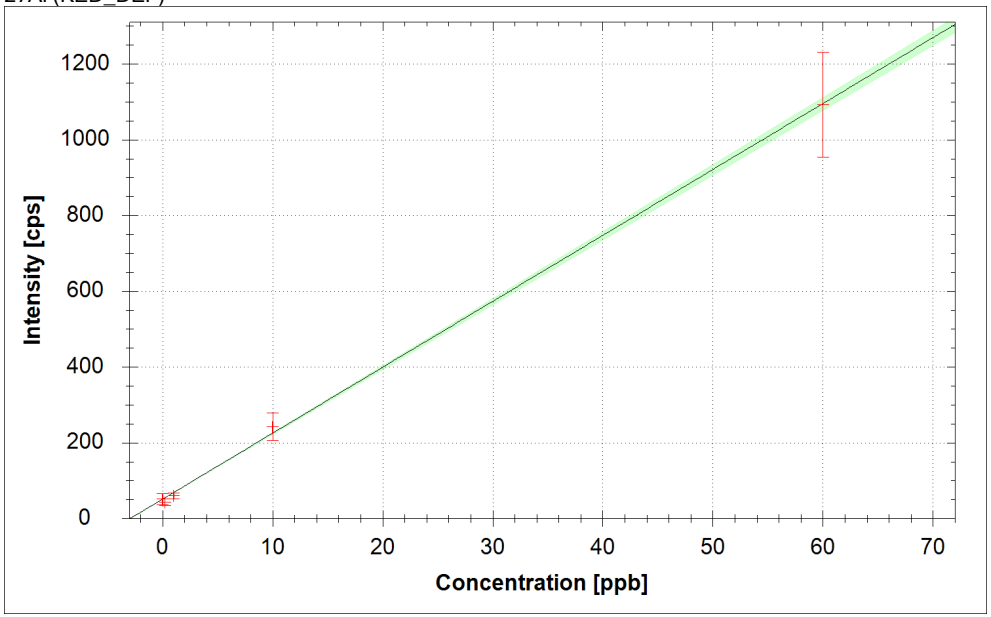
f(x) = 101.4314*x + 5624.6393
R² = 0.9997
BEC = 55.453 ppb
LoD = 2.8278 ppb

24Mg (KED_DEF)



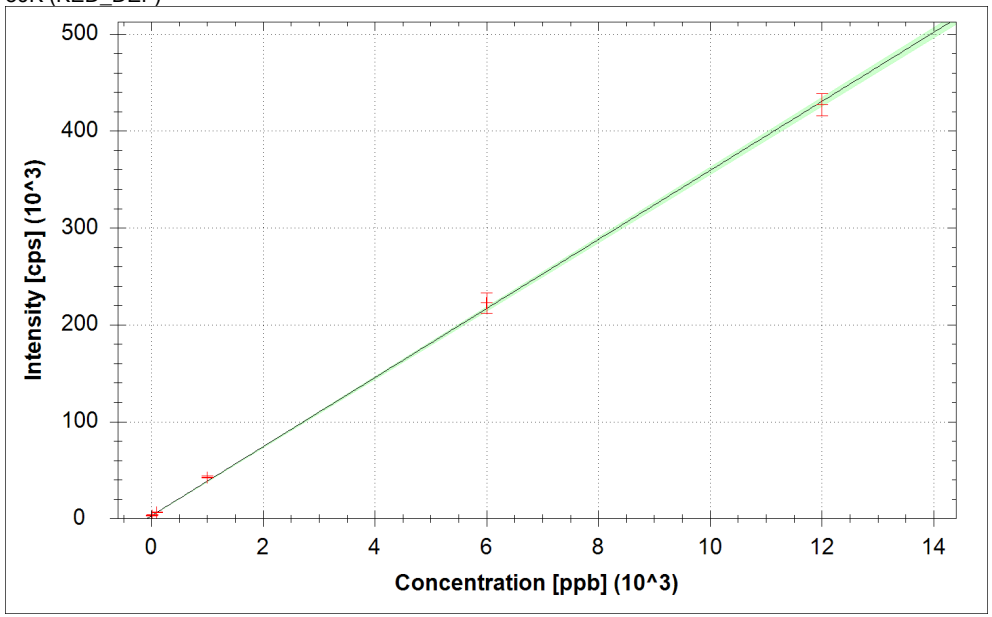
f(x) = 45.3197*x + 86.5218
R² = 0.9999
BEC = 1.909 ppb
LoD = 1.5134 ppb

27Al (KED_DEF)



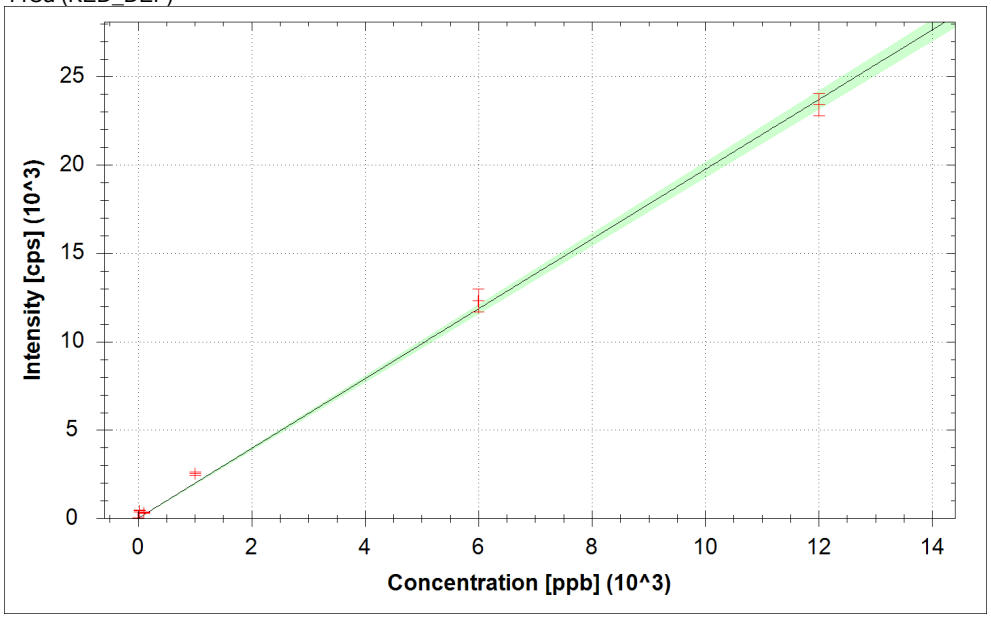
f(x) = 17.4036*x + 50.9201
R² = 0.9994
BEC = 2.926 ppb
LoD = 2.5094 ppb

39K (KED_DEF)



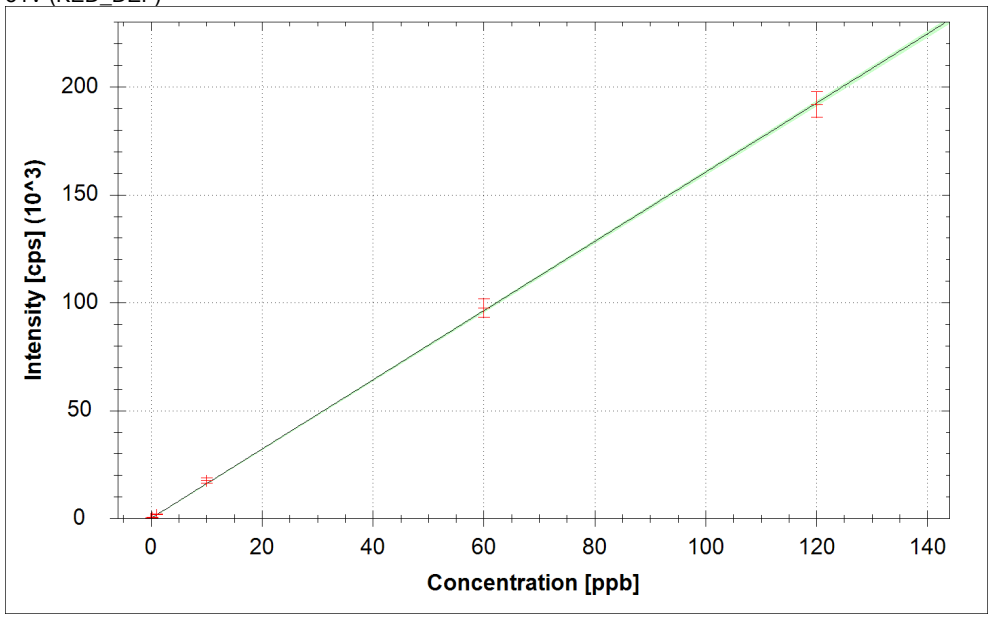
f(x) = 35.6351*x + 2738.7932
R² = 0.9996
BEC = 76.857 ppb
LoD = 23.8466 ppb

44Ca (KED_DEF)



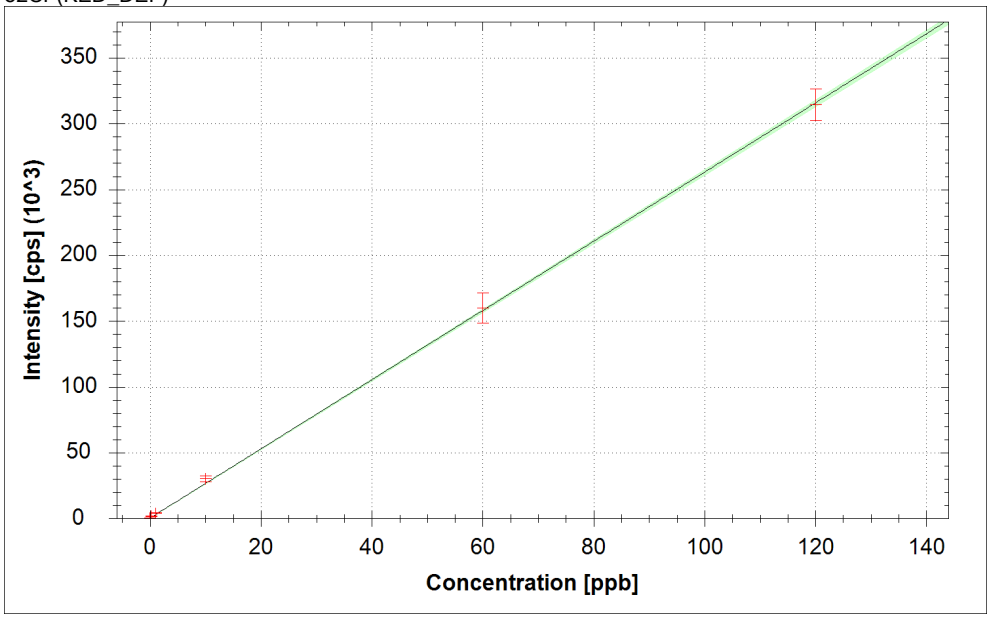
f(x) = 1.9732*x + 12.2905
R² = 0.9983
BEC = 6.229 ppb
LoD = 0.4310 ppb

51V (KED_DEF)



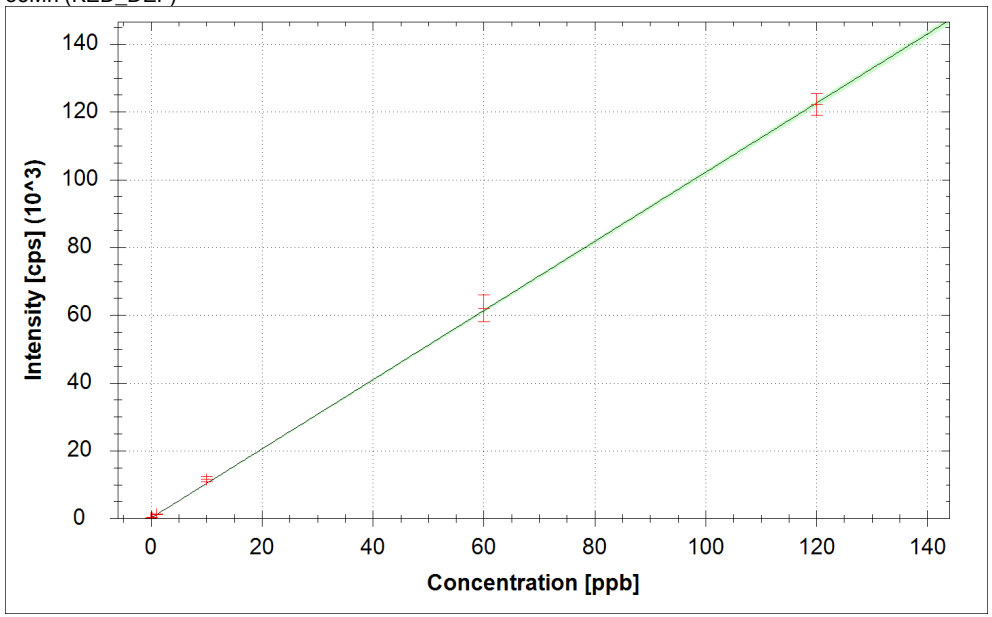
f(x) = 1603.2475*x + 57.6355
R² = 0.9999
BEC = 0.036 ppb
LoD = 0.0959 ppb

52Cr (KED_DEF)



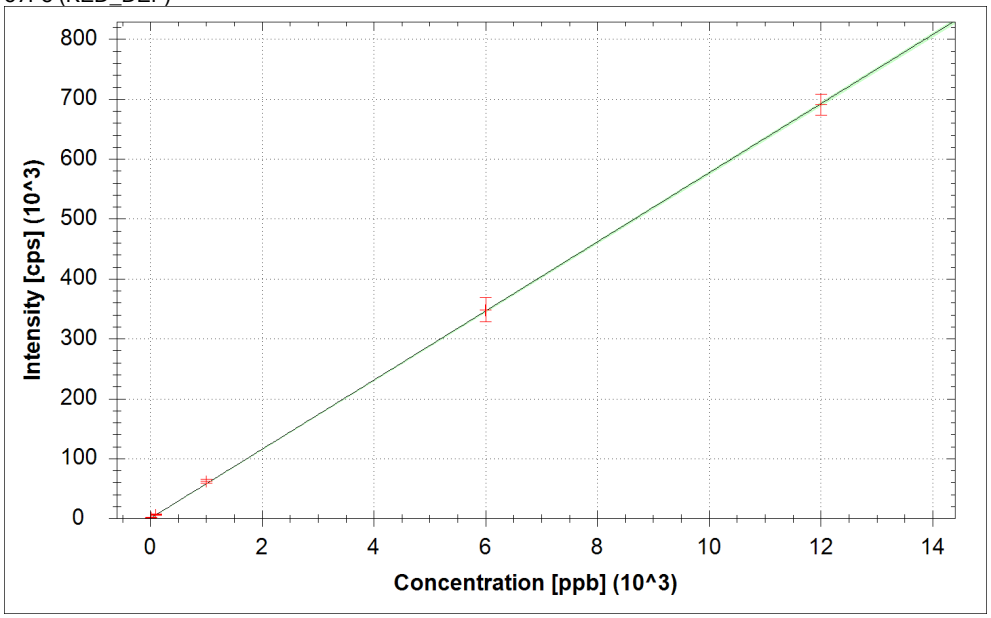
f(x) = 2627.9533*x + 321.0142
R² = 0.9998
BEC = 0.122 ppb
LoD = 0.0250 ppb

55Mn (KED_DEF)



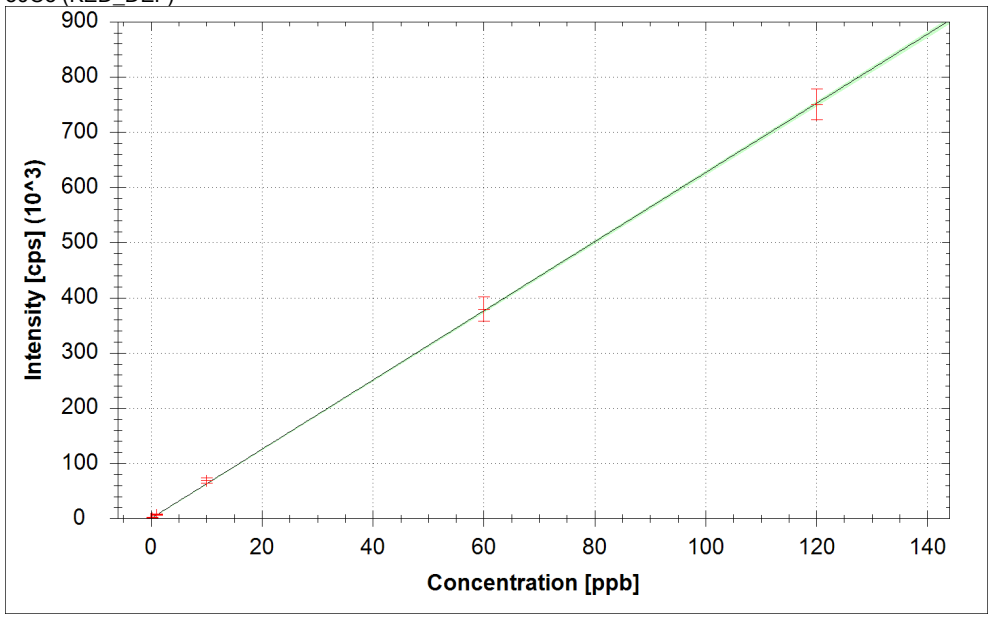
f(x) = 1020.2217*x + 111.7401
R² = 0.9998
BEC = 0.110 ppb
LoD = 0.0134 ppb

57Fe (KED_DEF)



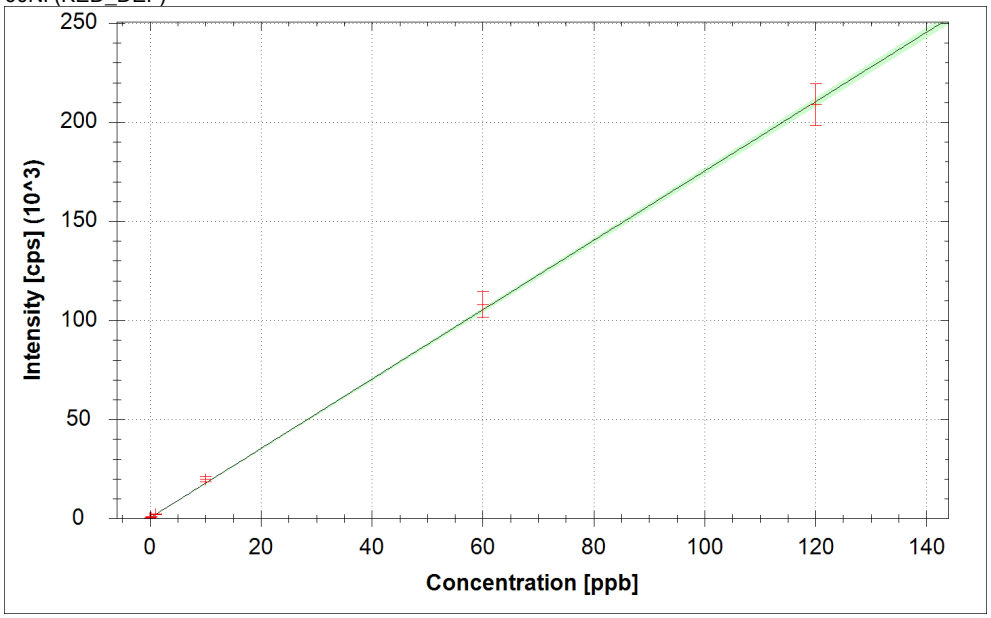
f(x) = 57.6559*x + 206.5647
R² = 0.9999
BEC = 3.583 ppb
LoD = 2.7518 ppb

59Co (KED_DEF)



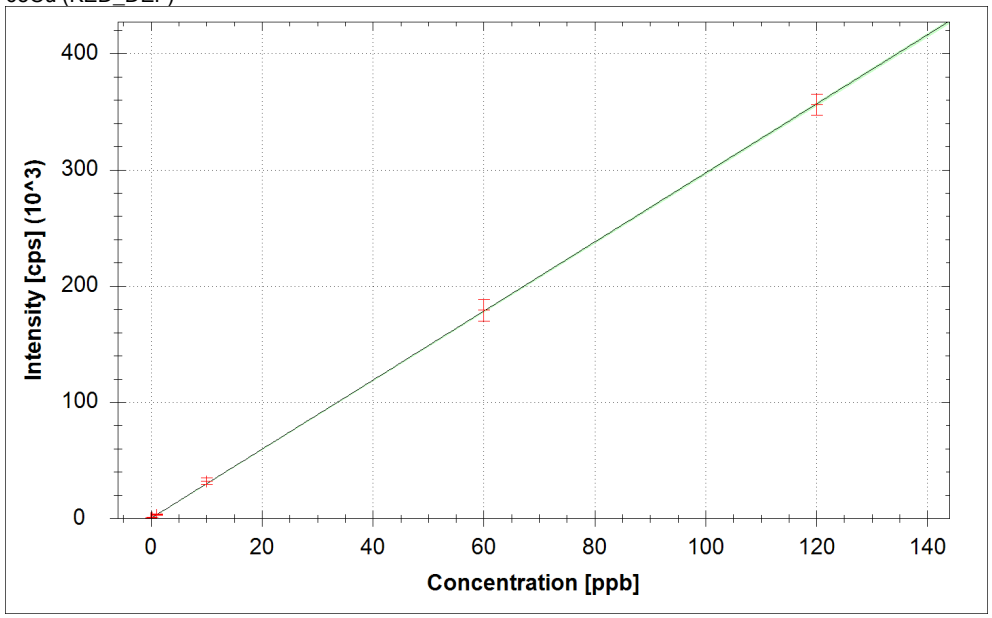
f(x) = 6265.3419*x + 31.6779
R² = 0.9999
BEC = 0.005 ppb
LoD = 0.0105 ppb

60Ni (KED_DEF)



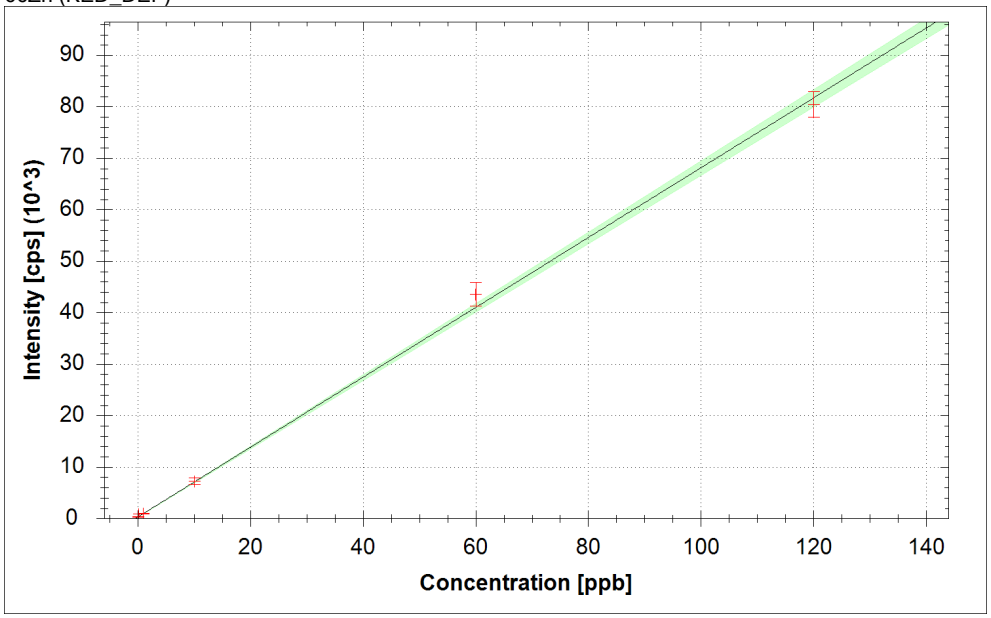
f(x) = 1749.7576*x + 290.1773
R² = 0.9997
BEC = 0.166 ppb
LoD = 0.1225 ppb

65Cu (KED_DEF)



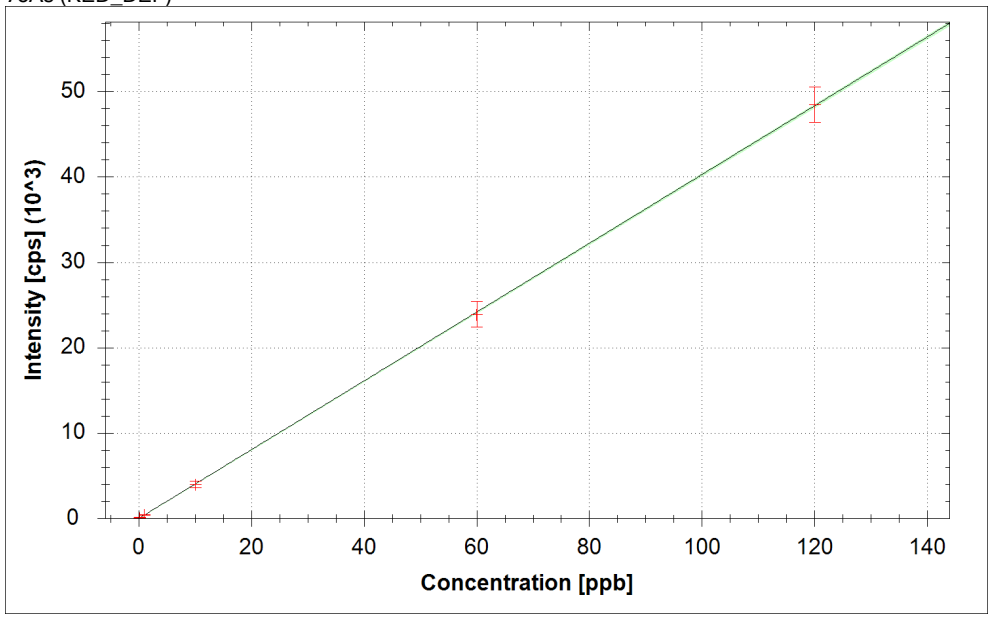
f(x) = 2970.3280*x + 147.1183
R² = 1.0000
BEC = 0.050 ppb
LoD = 0.0289 ppb

66Zn (KED_DEF)



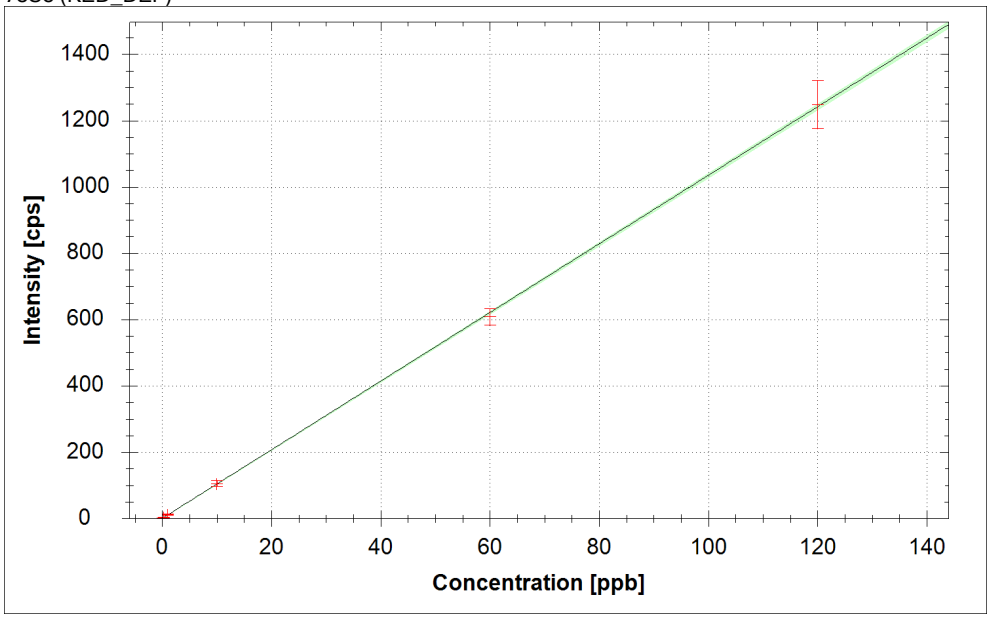
f(x) = 678.2512*x + 283.9828
R² = 0.9985
BEC = 0.419 ppb
LoD = 0.0614 ppb

75As (KED_DEF)



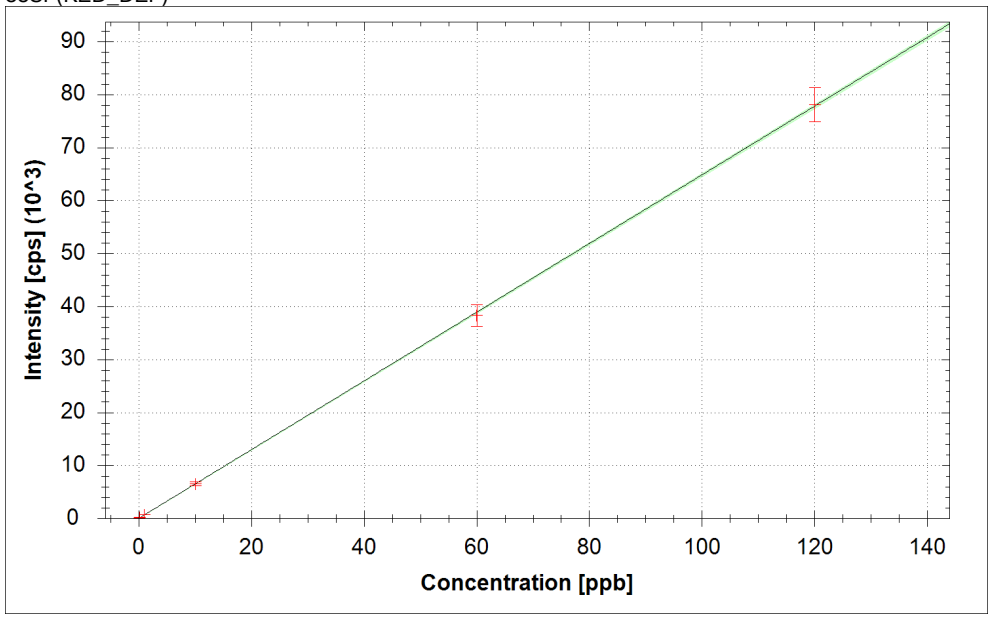
f(x) = 402.4748*x + 7.8863
R² = 0.9999
BEC = 0.020 ppb
LoD = 0.1329 ppb

78Se (KED_DEF)



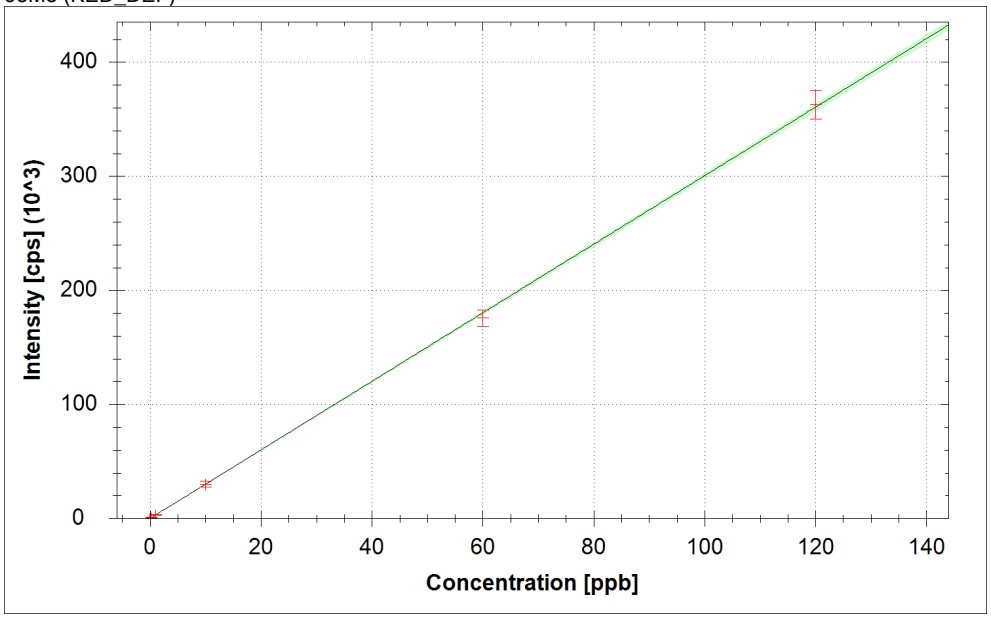
f(x) = 10.3426*x + 0.3402
R² = 0.9998
BEC = 0.033 ppb
LoD = 0.0629 ppb

88Sr (KED_DEF)



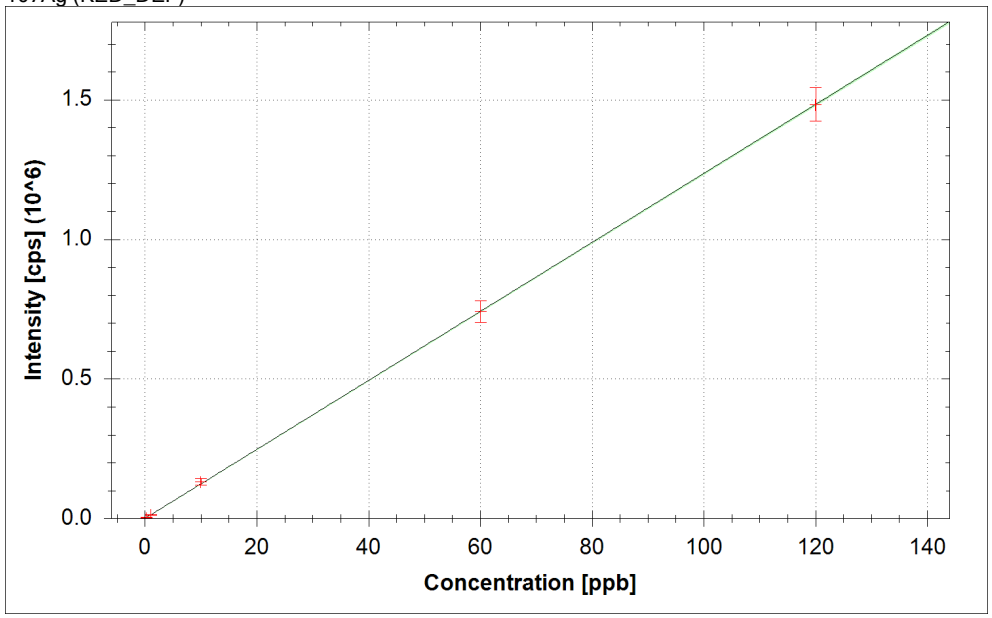
f(x) = 647.8915*x + 34.6656
R² = 0.9999
BEC = 0.054 ppb
LoD = 0.0073 ppb

95Mo (KED_DEF)



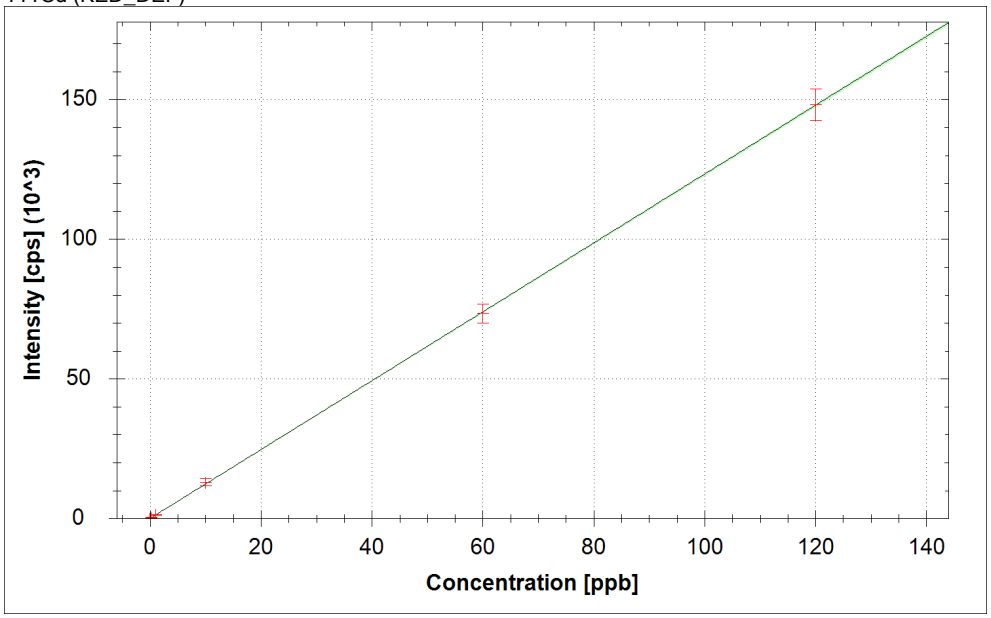
f(x) = 3002.9054*x + 15.4993
R² = 0.9998
BEC = 0.005 ppb
LoD = 0.0033 ppb

107Ag (KED_DEF)



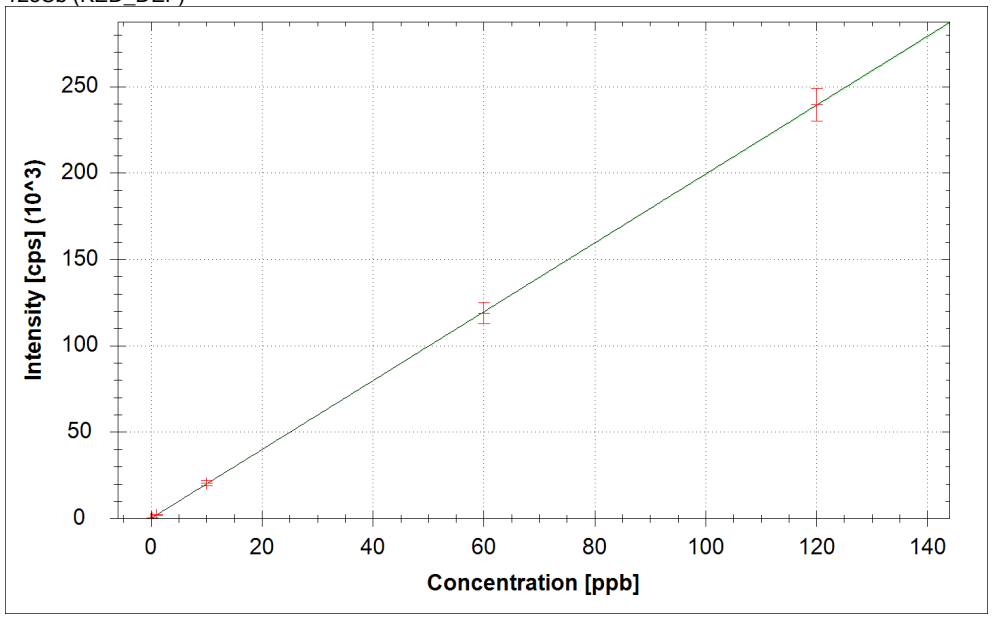
f(x) = 12355.4748*x + 22.3077
R² = 1.0000
BEC = 0.002 ppb
LoD = 0.0007 ppb

111Cd (KED_DEF)



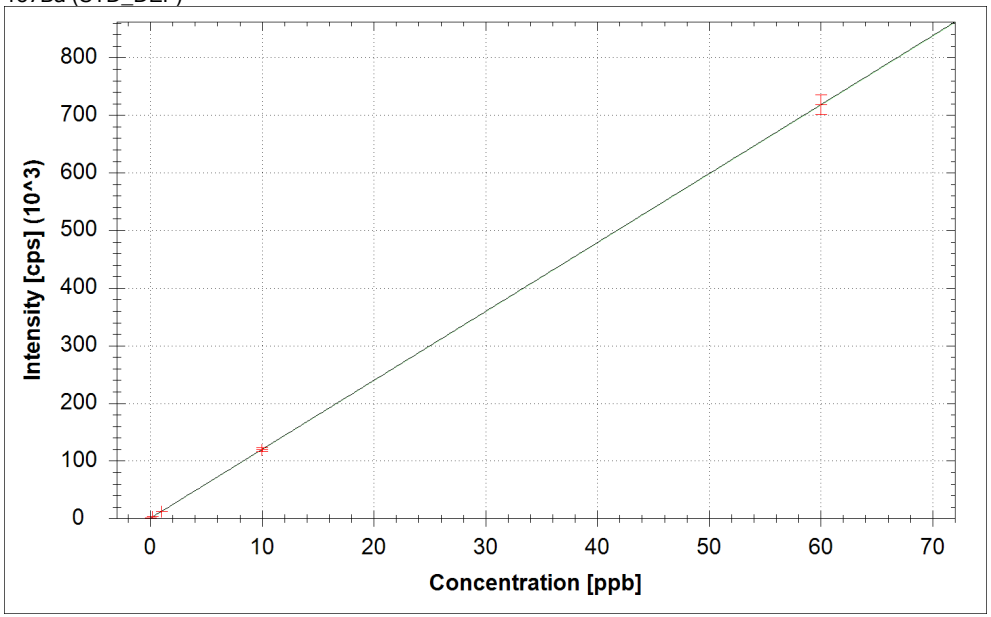
f(x) = 1232.4757*x + 0.4327
R² = 1.0000
BEC = 0.000 ppb
LoD = 0.0018 ppb

123Sb (KED_DEF)



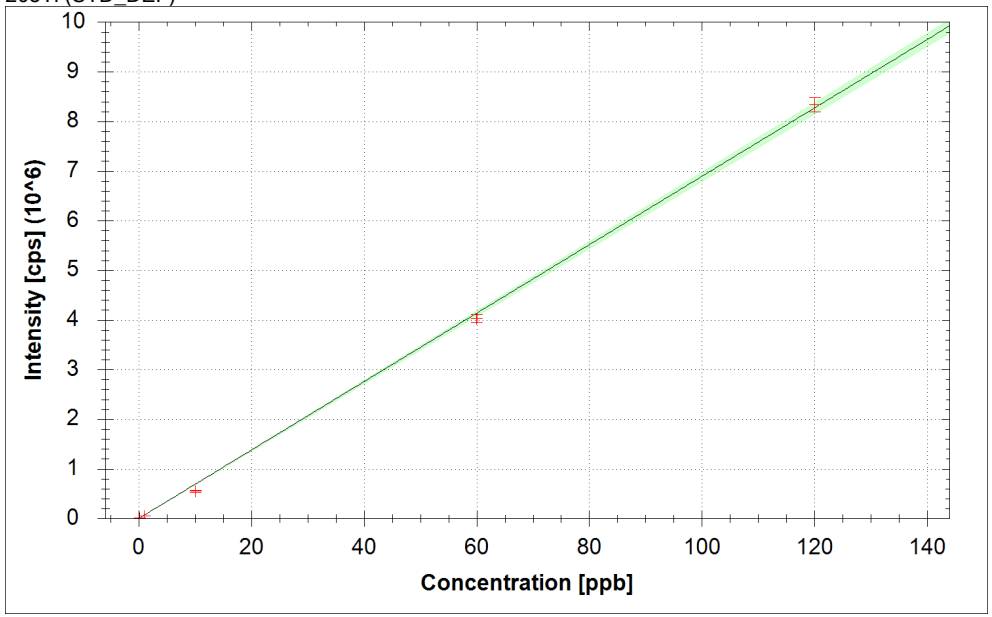
f(x) = 1992.6898*x + 9.8161
R² = 1.0000
BEC = 0.005 ppb
LoD = 0.0043 ppb

137Ba (STD_DEF)



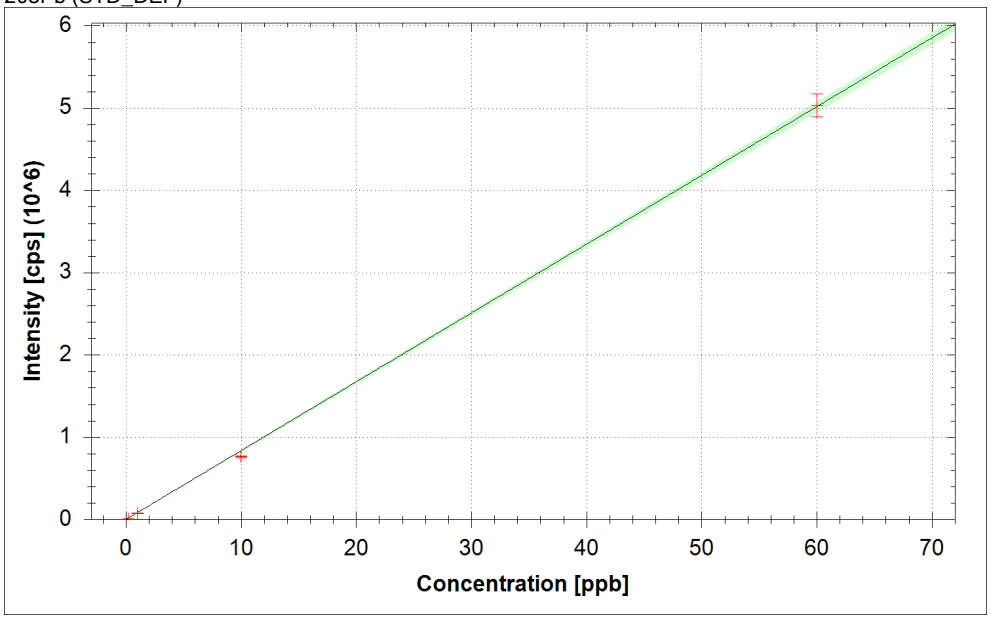
f(x) = 11963.7973*x + 269.8648
R² = 1.0000
BEC = 0.023 ppb
LoD = 0.0054 ppb

205Tl (STD_DEF)



f(x) = 68905.3506*x + 561.4809
R² = 0.9994
BEC = 0.008 ppb
LoD = 0.0015 ppb

208Pb (STD_DEF)



f(x) = 83589.7846*x + 433.6203
R² = 0.9997
BEC = 0.005 ppb
LoD = 0.0011 ppb

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Standards:

Analysis Index: 4
Analysis Name: 0.2/20 Cal
Analysis Type: STD
Analysis Started at: 6/10/2024 7:38:56 AM
Total Dilution Factor 50000
Rack 0
Vial 2

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD_DEF)	98.656 %	0.9 %		0.000 %
6Li (KED_DEF)	96.914 %	6.9 %		0.000 %
9Be (STD_DEF)	0.194 ppb	5.2 %	0.200 ppb	3.063 %
11B (STD_DEF)	0.292 ppb	5.0 %	0.200 ppb	45.846 %
23Na (KED_DEF)	19.544 ppb	28.3 %	20.000 ppb	2.282 %
24Mg (KED_DEF)	24.202 ppb	1.4 %	20.000 ppb	21.010 %
27Al (KED_DEF)	-0.460 ppb	112.1 %	0.200 ppb	330.124 %
39K (KED_DEF)	16.227 ppb	43.8 %	20.000 ppb	18.867 %
44Ca (KED_DEF)	209.602 ppb	13.6 %	20.000 ppb	948.012 %
45Sc (STD_DEF)	100.400 %	7.4 %		0.000 %
45Sc (KED_DEF)	98.924 %	5.0 %		0.000 %
51V (KED_DEF)	0.212 ppb	10.1 %	0.200 ppb	5.802 %
52Cr (KED_DEF)	0.499 ppb	16.1 %	0.200 ppb	149.724 %
55Mn (KED_DEF)	0.231 ppb	8.5 %	0.200 ppb	15.252 %
57Fe (KED_DEF)	24.025 ppb	4.1 %	20.000 ppb	20.127 %
59Co (KED_DEF)	0.219 ppb	14.3 %	0.200 ppb	9.560 %
60Ni (KED_DEF)	0.207 ppb	49.5 %	0.200 ppb	3.743 %
65Cu (KED_DEF)	0.228 ppb	17.8 %	0.200 ppb	13.811 %
66Zn (KED_DEF)	0.857 ppb	6.2 %	0.200 ppb	328.520 %
74Ge (STD_DEF)	99.976 %	1.6 %		0.000 %
74Ge (KED_DEF)	103.774 %	7.1 %		0.000 %
75As (KED_DEF)	0.195 ppb	57.0 %	0.200 ppb	2.576 %
78Se (KED_DEF)	0.215 ppb	52.7 %	0.200 ppb	7.672 %
88Sr (KED_DEF)	0.275 ppb	10.5 %	0.200 ppb	37.430 %
95Mo (KED_DEF)	0.199 ppb	14.3 %	0.200 ppb	0.374 %
103Rh (STD_DEF)	100.105 %	2.9 %		0.000 %
103Rh (KED_DEF)	99.167 %	5.3 %		0.000 %
107Ag (KED_DEF)	0.217 ppb	6.0 %	0.200 ppb	8.694 %
111Cd (KED_DEF)	0.232 ppb	4.8 %	0.200 ppb	16.052 %
115In (STD_DEF)	100.404 %	0.5 %		0.000 %
115In (KED_DEF)	100.082 %	6.0 %		0.000 %
123Sb (KED_DEF)	0.201 ppb	3.5 %	0.200 ppb	0.510 %
137Ba (STD_DEF)	0.211 ppb	2.6 %	0.200 ppb	5.281 %
159Tb (STD_DEF)	98.271 %	0.9 %		0.000 %
159Tb (KED_DEF)	99.292 %	6.0 %		0.000 %
175Lu (STD_DEF)	95.762 %	2.2 %		0.000 %
175Lu (KED_DEF)	101.073 %	6.6 %		0.000 %
205Tl (STD_DEF)	0.161 ppb	1.4 %	0.200 ppb	19.663 %
208Pb (STD_DEF)	0.184 ppb	2.6 %	0.200 ppb	7.764 %
209Bi (STD_DEF)	99.882 %	0.9 %		0.000 %
209Bi (KED_DEF)	99.252 %	6.0 %		0.000 %

Standards:

Analysis Index: 5
Analysis Name: 1/100 Cal
Analysis Type: STD
Analysis Started at: 6/10/2024 7:43:37 AM
Total Dilution Factor 10000
Rack 0
Vial 3

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD_DEF)	98.651 %	0.2 %		0.000 %
6Li (KED_DEF)	101.964 %	2.0 %		0.000 %
9Be (STD_DEF)	0.936 ppb	3.2 %	1.000 ppb	6.416 %
11B (STD_DEF)	0.975 ppb	1.8 %	1.000 ppb	2.493 %
23Na (KED_DEF)	98.698 ppb	6.6 %	100.000 ppb	1.302 %
24Mg (KED_DEF)	105.091 ppb	7.8 %	100.000 ppb	5.091 %
27Al (KED_DEF)	0.503 ppb	88.7 %	1.000 ppb	49.710 %
39K (KED_DEF)	101.286 ppb	4.2 %	100.000 ppb	1.286 %
44Ca (KED_DEF)	155.639 ppb	9.8 %	100.000 ppb	55.639 %
45Sc (STD_DEF)	99.797 %	8.8 %		0.000 %
45Sc (KED_DEF)	99.643 %	2.3 %		0.000 %
51V (KED_DEF)	1.135 ppb	3.0 %	1.000 ppb	13.548 %
52Cr (KED_DEF)	1.406 ppb	2.5 %	1.000 ppb	40.619 %
55Mn (KED_DEF)	1.074 ppb	6.8 %	1.000 ppb	7.363 %
57Fe (KED_DEF)	105.754 ppb	10.5 %	100.000 ppb	5.754 %
59Co (KED_DEF)	1.076 ppb	11.6 %	1.000 ppb	7.622 %
60Ni (KED_DEF)	1.040 ppb	7.2 %	1.000 ppb	3.966 %
65Cu (KED_DEF)	1.055 ppb	14.0 %	1.000 ppb	5.547 %
66Zn (KED_DEF)	0.948 ppb	8.3 %	1.000 ppb	5.178 %
74Ge (STD_DEF)	99.691 %	1.5 %		0.000 %
74Ge (KED_DEF)	99.919 %	7.3 %		0.000 %
75As (KED_DEF)	1.011 ppb	10.7 %	1.000 ppb	1.109 %
78Se (KED_DEF)	1.056 ppb	13.1 %	1.000 ppb	5.562 %
88Sr (KED_DEF)	1.068 ppb	5.0 %	1.000 ppb	6.797 %
95Mo (KED_DEF)	0.968 ppb	12.3 %	1.000 ppb	3.249 %
103Rh (STD_DEF)	98.564 %	1.0 %		0.000 %
103Rh (KED_DEF)	100.392 %	5.9 %		0.000 %
107Ag (KED_DEF)	1.023 ppb	6.9 %	1.000 ppb	2.337 %
111Cd (KED_DEF)	1.053 ppb	6.4 %	1.000 ppb	5.251 %
115In (STD_DEF)	100.263 %	1.8 %		0.000 %
115In (KED_DEF)	101.973 %	4.0 %		0.000 %
123Sb (KED_DEF)	1.004 ppb	5.0 %	1.000 ppb	0.440 %
137Ba (STD_DEF)	0.980 ppb	1.5 %	1.000 ppb	2.037 %
159Tb (STD_DEF)	97.135 %	1.2 %		0.000 %
159Tb (KED_DEF)	100.616 %	5.0 %		0.000 %
175Lu (STD_DEF)	96.522 %	2.1 %		0.000 %
175Lu (KED_DEF)	103.864 %	4.4 %		0.000 %
205Tl (STD_DEF)	0.779 ppb	1.5 %	1.000 ppb	22.099 %
208Pb (STD_DEF)	0.900 ppb	3.1 %	1.000 ppb	10.031 %
209Bi (STD_DEF)	100.050 %	2.7 %		0.000 %
209Bi (KED_DEF)	102.305 %	6.4 %		0.000 %

Standards:

Analysis Index: 6
Analysis Name: 10/10000 Cal
Analysis Type: STD
Analysis Started at: 6/10/2024 7:48:18 AM
Total Dilution Factor 1000
Rack 0
Vial 4

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD_DEF)	97.971 %	0.7 %		0.000 %
6Li (KED_DEF)	96.003 %	2.9 %		0.000 %
9Be (STD_DEF)	9.827 ppb	0.9 %	10.000 ppb	1.734 %
11B (STD_DEF)	9.799 ppb	1.3 %	10.000 ppb	2.015 %
23Na (KED_DEF)	1,080.710 ppb	4.3 %	1,000.000 ppb	8.071 %
24Mg (KED_DEF)	1,049.001 ppb	2.8 %	1,000.000 ppb	4.900 %
27Al (KED_DEF)	10.972 ppb	18.7 %	10.000 ppb	9.717 %
39K (KED_DEF)	1,121.534 ppb	3.1 %	1,000.000 ppb	12.153 %
44Ca (KED_DEF)	1,284.120 ppb	3.6 %	1,000.000 ppb	28.412 %
45Sc (STD_DEF)	100.862 %	6.3 %		0.000 %
45Sc (KED_DEF)	100.557 %	2.6 %		0.000 %
51V (KED_DEF)	10.875 ppb	7.3 %	10.000 ppb	8.749 %
52Cr (KED_DEF)	11.358 ppb	7.8 %	10.000 ppb	13.577 %
55Mn (KED_DEF)	11.194 ppb	6.5 %	10.000 ppb	11.939 %
57Fe (KED_DEF)	1,079.526 ppb	5.0 %	1,000.000 ppb	7.953 %
59Co (KED_DEF)	10.951 ppb	6.8 %	10.000 ppb	9.513 %
60Ni (KED_DEF)	11.056 ppb	6.8 %	10.000 ppb	10.560 %
65Cu (KED_DEF)	10.699 ppb	8.3 %	10.000 ppb	6.985 %
66Zn (KED_DEF)	10.264 ppb	8.8 %	10.000 ppb	2.641 %
74Ge (STD_DEF)	101.456 %	1.0 %		0.000 %
74Ge (KED_DEF)	103.313 %	7.3 %		0.000 %
75As (KED_DEF)	9.899 ppb	9.7 %	10.000 ppb	1.010 %
78Se (KED_DEF)	10.131 ppb	8.2 %	10.000 ppb	1.309 %
88Sr (KED_DEF)	10.018 ppb	6.2 %	10.000 ppb	0.176 %
95Mo (KED_DEF)	9.971 ppb	9.3 %	10.000 ppb	0.292 %
103Rh (STD_DEF)	99.018 %	0.9 %		0.000 %
103Rh (KED_DEF)	100.632 %	5.9 %		0.000 %
107Ag (KED_DEF)	10.551 ppb	9.0 %	10.000 ppb	5.511 %
111Cd (KED_DEF)	10.496 ppb	10.0 %	10.000 ppb	4.957 %
115In (STD_DEF)	99.618 %	0.5 %		0.000 %
115In (KED_DEF)	100.869 %	6.5 %		0.000 %
123Sb (KED_DEF)	10.251 ppb	6.9 %	10.000 ppb	2.507 %
137Ba (STD_DEF)	9.942 ppb	2.5 %	10.000 ppb	0.577 %
159Tb (STD_DEF)	98.945 %	2.4 %		0.000 %
159Tb (KED_DEF)	101.387 %	5.3 %		0.000 %
175Lu (STD_DEF)	97.002 %	0.5 %		0.000 %
175Lu (KED_DEF)	103.722 %	7.5 %		0.000 %
205Tl (STD_DEF)	7.942 ppb	3.0 %	10.000 ppb	20.576 %
208Pb (STD_DEF)	9.077 ppb	1.5 %	10.000 ppb	9.234 %
209Bi (STD_DEF)	100.257 %	1.3 %		0.000 %
209Bi (KED_DEF)	99.926 %	5.7 %		0.000 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Standards:

Analysis Index: 7
Analysis Name: 60/6000 Cal
Analysis Type: STD
Analysis Started at: 6/10/2024 7:53:00 AM
Total Dilution Factor 166.66666666
Rack 0
Vial 5

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD_DEF)	95.508 %	0.1 %		0.000 %
6Li (KED_DEF)	93.057 %	6.4 %		0.000 %
9Be (STD_DEF)	58.279 ppb	0.6 %	60.000 ppb	2.869 %
11B (STD_DEF)	58.072 ppb	0.8 %	60.000 ppb	3.213 %
23Na (KED_DEF)	6,155.380 ppb	5.5 %	6,000.000 ppb	2.590 %
24Mg (KED_DEF)	6,072.051 ppb	5.8 %	6,000.000 ppb	1.201 %
27Al (KED_DEF)	59.849 ppb	13.3 %	60.000 ppb	0.252 %
39K (KED_DEF)	6,160.940 ppb	4.9 %	6,000.000 ppb	2.682 %
44Ca (KED_DEF)	6,235.411 ppb	5.3 %	6,000.000 ppb	3.924 %
45Sc (STD_DEF)	98.488 %	7.2 %		0.000 %
45Sc (KED_DEF)	106.805 %	4.8 %		0.000 %
51V (KED_DEF)	60.753 ppb	4.5 %	60.000 ppb	1.255 %
52Cr (KED_DEF)	60.707 ppb	7.3 %	60.000 ppb	1.178 %
55Mn (KED_DEF)	60.639 ppb	6.4 %	60.000 ppb	1.065 %
57Fe (KED_DEF)	6,035.454 ppb	5.8 %	6,000.000 ppb	0.591 %
59Co (KED_DEF)	60.536 ppb	5.8 %	60.000 ppb	0.893 %
60Ni (KED_DEF)	61.472 ppb	6.0 %	60.000 ppb	2.453 %
65Cu (KED_DEF)	60.259 ppb	5.2 %	60.000 ppb	0.431 %
66Zn (KED_DEF)	63.742 ppb	5.3 %	60.000 ppb	6.237 %
74Ge (STD_DEF)	101.405 %	0.6 %		0.000 %
74Ge (KED_DEF)	100.954 %	4.3 %		0.000 %
75As (KED_DEF)	59.292 ppb	6.3 %	60.000 ppb	1.180 %
78Se (KED_DEF)	58.724 ppb	4.0 %	60.000 ppb	2.126 %
88Sr (KED_DEF)	59.046 ppb	5.3 %	60.000 ppb	1.589 %
95Mo (KED_DEF)	58.468 ppb	4.1 %	60.000 ppb	2.553 %
103Rh (STD_DEF)	97.746 %	0.2 %		0.000 %
103Rh (KED_DEF)	98.149 %	3.0 %		0.000 %
107Ag (KED_DEF)	59.976 ppb	5.2 %	60.000 ppb	0.039 %
111Cd (KED_DEF)	59.524 ppb	4.7 %	60.000 ppb	0.793 %
115In (STD_DEF)	98.338 %	1.8 %		0.000 %
115In (KED_DEF)	102.801 %	4.2 %		0.000 %
123Sb (KED_DEF)	59.605 ppb	5.1 %	60.000 ppb	0.659 %
137Ba (STD_DEF)	60.010 ppb	2.4 %	60.000 ppb	0.017 %
159Tb (STD_DEF)	99.106 %	0.7 %		0.000 %
159Tb (KED_DEF)	101.558 %	3.3 %		0.000 %
175Lu (STD_DEF)	99.462 %	0.9 %		0.000 %
175Lu (KED_DEF)	101.867 %	4.9 %		0.000 %
205Tl (STD_DEF)	58.372 ppb	2.0 %	60.000 ppb	2.713 %
208Pb (STD_DEF)	60.156 ppb	2.8 %	60.000 ppb	0.259 %
209Bi (STD_DEF)	100.391 %	2.0 %		0.000 %
209Bi (KED_DEF)	100.562 %	7.0 %		0.000 %

Standards:

Analysis Index: 8
Analysis Name: 120/120000 Cal
Analysis Type: STD
Analysis Started at: 6/10/2024 7:57:43 AM
Total Dilution Factor 83.33333333
Rack 0
Vial 6

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD_DEF)	94.756 %	0.5 %		0.000 %
6Li (KED_DEF)	92.637 %	5.2 %		0.000 %
9Be (STD_DEF)	120.876 ppb	0.7 %	120.000 ppb	0.730 %
11B (STD_DEF)	120.981 ppb	1.0 %	120.000 ppb	0.817 %
23Na (KED_DEF)	11,915.596 ppb	5.0 %	12,000.000 ppb	0.703 %
24Mg (KED_DEF)	11,959.842 ppb	5.4 %	12,000.000 ppb	0.335 %
27Al (KED_DEF)	124.359 ppb	10.1 %	120.000 ppb	3.633 %
39K (KED_DEF)	11,909.398 ppb	2.8 %	12,000.000 ppb	0.755 %
44Ca (KED_DEF)	11,857.838 ppb	2.7 %	12,000.000 ppb	1.185 %
45Sc (STD_DEF)	95.283 %	1.9 %		0.000 %
45Sc (KED_DEF)	110.684 %	2.8 %		0.000 %
51V (KED_DEF)	119.549 ppb	3.1 %	120.000 ppb	0.376 %
52Cr (KED_DEF)	119.529 ppb	3.8 %	120.000 ppb	0.392 %
55Mn (KED_DEF)	119.580 ppb	2.6 %	120.000 ppb	0.350 %
57Fe (KED_DEF)	11,975.591 ppb	2.5 %	12,000.000 ppb	0.203 %
59Co (KED_DEF)	119.652 ppb	3.7 %	120.000 ppb	0.290 %
60Ni (KED_DEF)	119.176 ppb	5.1 %	120.000 ppb	0.687 %
65Cu (KED_DEF)	119.812 ppb	2.5 %	120.000 ppb	0.157 %
66Zn (KED_DEF)	118.106 ppb	3.1 %	120.000 ppb	1.578 %
74Ge (STD_DEF)	102.733 %	0.2 %		0.000 %
74Ge (KED_DEF)	101.763 %	3.6 %		0.000 %
75As (KED_DEF)	120.362 ppb	4.2 %	120.000 ppb	0.302 %
78Se (KED_DEF)	120.627 ppb	5.8 %	120.000 ppb	0.522 %
88Sr (KED_DEF)	120.475 ppb	4.1 %	120.000 ppb	0.396 %
95Mo (KED_DEF)	120.768 ppb	3.5 %	120.000 ppb	0.640 %
103Rh (STD_DEF)	96.586 %	0.6 %		0.000 %
103Rh (KED_DEF)	98.705 %	4.0 %		0.000 %
107Ag (KED_DEF)	119.966 ppb	4.0 %	120.000 ppb	0.029 %
111Cd (KED_DEF)	120.196 ppb	3.8 %	120.000 ppb	0.163 %
115In (STD_DEF)	98.375 %	0.5 %		0.000 %
115In (KED_DEF)	103.952 %	4.3 %		0.000 %
123Sb (KED_DEF)	120.177 ppb	4.0 %	120.000 ppb	0.147 %
137Ba (STD_DEF)	119.300 ppb	1.8 %	120.000 ppb	0.583 %
159Tb (STD_DEF)	97.567 %	1.9 %		0.000 %
159Tb (KED_DEF)	103.042 %	3.5 %		0.000 %
175Lu (STD_DEF)	97.071 %	2.6 %		0.000 %
175Lu (KED_DEF)	105.317 %	4.7 %		0.000 %
205Tl (STD_DEF)	120.987 ppb	1.8 %	120.000 ppb	0.823 %
208Pb (STD_DEF)	128.095 ppb	1.1 %	120.000 ppb	6.746 %
209Bi (STD_DEF)	96.315 %	0.7 %		0.000 %
209Bi (KED_DEF)	102.156 %	3.4 %		0.000 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	1	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	Rinse	Rack	0		
Analysis started at:	6/10/2024 7:24:52 AM	Vial	1		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	100.985 %	112.062 %	0.006 ppb	0.246 ppb	-3.027 ppb	0.011 ppb	0.155 ppb	-2.736 ppb	3.854 ppb
Concentration per Run 1	102.916 %	101.403 %	0.007 ppb	0.252 ppb	0.522 ppb	-0.338 ppb	1.154 ppb	3.455 ppb	6.061 ppb
Concentration per Run 2	100.674 %	116.760 %	0.003 ppb	0.247 ppb	-4.224 ppb	0.588 ppb	1.555 ppb	-6.647 ppb	-3.538 ppb
Concentration per Run 3	99.364 %	118.023 %	0.006 ppb	0.240 ppb	-5.379 ppb	-0.215 ppb	-2.242 ppb	-5.016 ppb	9.038 ppb
Concentration RSD	1.8 %	8.3 %	38.9 %	2.4 %	103.3 %	4,427.1 %	1,341.7 %	198.2 %	170.5 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	93.597 %	106.042 %	-0.006 ppb	0.008 ppb	0.049 ppb	2.005 ppb	0.006 ppb	0.047 ppb	0.026 ppb
Concentration per Run 1	89.619 %	104.912 %	-0.008 ppb	-0.003 ppb	0.044 ppb	2.493 ppb	0.005 ppb	0.110 ppb	0.035 ppb
Concentration per Run 2	102.689 %	106.323 %	-0.016 ppb	0.019 ppb	0.061 ppb	1.851 ppb	0.005 ppb	-0.005 ppb	0.001 ppb
Concentration per Run 3	88.482 %	106.891 %	0.007 ppb	0.010 ppb	0.044 ppb	1.670 ppb	0.008 ppb	0.035 ppb	0.044 ppb
Concentration RSD	8.4 %	1.0 %	197.9 %	132.4 %	19.5 %	21.6 %	25.3 %	124.6 %	84.8 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.162 ppb	100.148 %	105.164 %	0.002 ppb	0.020 ppb	0.001 ppb	0.005 ppb	99.937 %	103.076 %
Concentration per Run 1	0.228 ppb	100.170 %	99.720 %	0.049 ppb	-0.006 ppb	0.011 ppb	-0.001 ppb	100.972 %	97.595 %
Concentration per Run 2	0.159 ppb	99.196 %	106.532 %	0.013 ppb	-0.010 ppb	-0.005 ppb	0.005 ppb	98.584 %	106.304 %
Concentration per Run 3	0.099 ppb	101.077 %	109.240 %	-0.056 ppb	0.077 ppb	-0.004 ppb	0.012 ppb	100.255 %	105.329 %
Concentration RSD	39.9 %	0.9 %	4.7 %	2,676.0 %	244.0 %	1,169.2 %	112.9 %	1.2 %	4.6 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.000 ppb	100.442 %	106.647 %	0.005 ppb	0.024 ppb	98.704 %	103.458 %	96.397 %
Concentration per Run 1	0.000 ppb	0.000 ppb	102.269 %	100.449 %	0.005 ppb	0.031 ppb	97.420 %	97.050 %	96.908 %
Concentration per Run 2	0.000 ppb	0.001 ppb	100.028 %	110.566 %	0.005 ppb	0.020 ppb	100.490 %	105.633 %	96.577 %
Concentration per Run 3	-0.001 ppb	0.000 ppb	99.029 %	108.924 %	0.006 ppb	0.022 ppb	98.201 %	107.690 %	95.704 %
Concentration RSD	296.5 %	2,761.2 %	1.7 %	5.1 %	12.9 %	24.7 %	1.6 %	5.5 %	0.6 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	105.544 %	0.002 ppb	0.010 ppb	98.569 %	102.564 %
Concentration per Run 1	101.605 %	0.002 ppb	0.009 ppb	97.058 %	96.380 %
Concentration per Run 2	107.353 %	0.003 ppb	0.011 ppb	100.145 %	105.585 %
Concentration per Run 3	107.674 %	0.002 ppb	0.010 ppb	98.504 %	105.726 %
Concentration RSD	3.2 %	22.6 %	9.3 %	1.6 %	5.2 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 2 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: CAL LOT #M24-1045 Rack 0
Analysis started at: 6/10/2024 7:29:32 AM Vial 1

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	100.116 %	109.607 %	0.004 ppb	0.235 ppb	-5.031 ppb	-0.431 ppb	-0.499 ppb	-8.117 ppb	-0.213 ppb
Concentration per Run 1	100.445 %	106.031 %	0.003 ppb	0.239 ppb	-2.585 ppb	-0.079 ppb	0.013 ppb	-4.015 ppb	-0.214 ppb
Concentration per Run 2	99.876 %	108.766 %	0.003 ppb	0.240 ppb	-6.161 ppb	-0.933 ppb	-0.369 ppb	-5.789 ppb	3.151 ppb
Concentration per Run 3	100.027 %	114.025 %	0.006 ppb	0.226 ppb	-6.347 ppb	-0.280 ppb	-1.142 ppb	-14.548 ppb	-3.577 ppb
Concentration RSD	0.3 %	3.7 %	37.4 %	3.4 %	42.1 %	103.6 %	117.9 %	69.5 %	1,577.9 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	100.455 %	102.007 %	-0.011 ppb	0.001 ppb	0.041 ppb	2.236 ppb	0.010 ppb	0.056 ppb	0.021 ppb
Concentration per Run 1	106.749 %	102.753 %	-0.015 ppb	-0.013 ppb	0.040 ppb	1.396 ppb	0.008 ppb	0.076 ppb	0.040 ppb
Concentration per Run 2	90.006 %	101.569 %	-0.012 ppb	0.015 ppb	0.048 ppb	1.695 ppb	0.011 ppb	0.070 ppb	0.011 ppb
Concentration per Run 3	104.609 %	101.699 %	-0.007 ppb	0.001 ppb	0.034 ppb	3.616 ppb	0.010 ppb	0.023 ppb	0.011 ppb
Concentration RSD	9.1 %	0.6 %	34.6 %	1,440.0 %	17.9 %	53.9 %	19.1 %	52.0 %	80.4 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.170 ppb	97.072 %	101.686 %	0.026 ppb	0.002 ppb	0.008 ppb	0.002 ppb	101.894 %	100.209 %
Concentration per Run 1	0.173 ppb	98.144 %	95.758 %	0.006 ppb	-0.043 ppb	0.007 ppb	-0.001 ppb	101.374 %	95.283 %
Concentration per Run 2	0.184 ppb	96.017 %	104.950 %	0.028 ppb	-0.004 ppb	0.004 ppb	0.001 ppb	101.581 %	101.872 %
Concentration per Run 3	0.154 ppb	97.053 %	104.350 %	0.045 ppb	0.052 ppb	0.012 ppb	0.006 ppb	102.726 %	103.472 %
Concentration RSD	8.9 %	1.1 %	5.1 %	73.2 %	2,730.8 %	51.2 %	146.4 %	0.7 %	4.3 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.000 ppb	99.959 %	101.956 %	0.002 ppb	0.023 ppb	98.438 %	98.238 %	97.197 %
Concentration per Run 1	-0.001 ppb	0.002 ppb	100.184 %	96.501 %	0.003 ppb	0.022 ppb	98.211 %	92.612 %	99.714 %
Concentration per Run 2	0.000 ppb	0.000 ppb	100.127 %	103.075 %	0.003 ppb	0.019 ppb	97.576 %	98.623 %	94.656 %
Concentration per Run 3	0.000 ppb	0.000 ppb	99.566 %	106.291 %	0.001 ppb	0.027 ppb	99.526 %	103.480 %	97.223 %
Concentration RSD	116.0 %	325.5 %	0.3 %	4.9 %	59.8 %	16.6 %	1.0 %	5.5 %	2.6 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	100.112 %	0.001 ppb	0.011 ppb	98.547 %	99.842 %
Concentration per Run 1	93.862 %	0.002 ppb	0.010 ppb	98.632 %	94.113 %
Concentration per Run 2	100.749 %	0.001 ppb	0.012 ppb	98.229 %	100.528 %
Concentration per Run 3	105.725 %	0.001 ppb	0.010 ppb	98.780 %	104.884 %
Concentration RSD	6.0 %	45.5 %	9.8 %	0.3 %	5.4 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	3	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	Blank NTB ICPMSRQ	Rack	4		
Analysis started at:	6/10/2024 7:34:12 AM	Vial	49		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb
Concentration per Run	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb
Concentration RSD	0.0 %	0.0 %	0.1 %	0.0 %	0.0 %	0.3 %	0.3 %	0.1 %	0.0 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb
Concentration per Run	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb
Concentration RSD	0.1 %	0.0 %	0.9 %	0.1 %	0.0 %	0.3 %	0.7 %	0.2 %	0.2 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	100.000 %
Concentration per Run	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	100.000 %
Concentration RSD	0.0 %	0.0 %	0.1 %	2.3 %	0.6 %	0.0 %	0.2 %	0.0 %	0.1 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb	100.000 %	100.000 %	100.000 %
Concentration per Run	0.000 ppb	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb	100.000 %	100.000 %	100.000 %
Concentration RSD	0.1 %	1.7 %	0.0 %	0.0 %	0.3 %	0.1 %	0.0 %	0.1 %	0.0 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	100.000 %	0.000 ppb	0.000 ppb	100.000 %	100.000 %
Concentration per Run	100.000 %	0.000 ppb	0.000 ppb	100.000 %	100.000 %
Concentration RSD	0.0 %	0.1 %	0.1 %	0.0 %	0.1 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	4	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	0.2/20 Cal	Rack	0		
Analysis started at:	6/10/2024 7:38:56 AM	Vial	2		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	98.656 %	96.914 %	0.194 ppb	0.292 ppb	19.544 ppb	24.202 ppb	-0.460 ppb	16.227 ppb	209.602 ppb
Concentration per Run 1	99.633 %	90.042 %	0.184 ppb	0.279 ppb	25.878 ppb	24.110 ppb	-0.841 ppb	24.262 ppb	218.370 ppb
Concentration per Run 2	98.268 %	103.296 %	0.204 ppb	0.307 ppb	15.730 ppb	23.916 ppb	-0.667 ppb	13.673 ppb	232.787 ppb
Concentration per Run 3	98.065 %	97.405 %	0.194 ppb	0.289 ppb	17.023 ppb	24.581 ppb	0.127 ppb	10.745 ppb	177.649 ppb
Concentration RSD	0.9 %	6.9 %	5.2 %	5.0 %	28.3 %	1.4 %	112.1 %	43.8 %	13.6 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	100.400 %	98.924 %	0.212 ppb	0.499 ppb	0.231 ppb	24.025 ppb	0.219 ppb	0.207 ppb	0.228 ppb
Concentration per Run 1	103.495 %	93.406 %	0.230 ppb	0.581 ppb	0.253 ppb	25.018 ppb	0.249 ppb	0.323 ppb	0.185 ppb
Concentration per Run 2	91.942 %	100.416 %	0.216 ppb	0.498 ppb	0.217 ppb	24.033 ppb	0.222 ppb	0.125 ppb	0.266 ppb
Concentration per Run 3	105.764 %	102.948 %	0.188 ppb	0.419 ppb	0.221 ppb	23.026 ppb	0.186 ppb	0.175 ppb	0.232 ppb
Concentration RSD	7.4 %	5.0 %	10.1 %	16.1 %	8.5 %	4.1 %	14.3 %	49.5 %	17.8 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.857 ppb	99.976 %	103.774 %	0.195 ppb	0.215 ppb	0.275 ppb	0.199 ppb	100.105 %	99.167 %
Concentration per Run 1	0.913 ppb	101.846 %	95.340 %	0.323 ppb	0.336 ppb	0.296 ppb	0.232 ppb	103.314 %	93.215 %
Concentration per Run 2	0.852 ppb	99.141 %	108.714 %	0.141 ppb	0.199 ppb	0.242 ppb	0.177 ppb	97.651 %	101.357 %
Concentration per Run 3	0.806 ppb	98.940 %	107.267 %	0.121 ppb	0.111 ppb	0.287 ppb	0.189 ppb	99.351 %	102.928 %
Concentration RSD	6.2 %	1.6 %	7.1 %	57.0 %	52.7 %	10.5 %	14.3 %	2.9 %	5.3 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.217 ppb	0.232 ppb	100.404 %	100.082 %	0.201 ppb	0.211 ppb	98.271 %	99.292 %	95.762 %
Concentration per Run 1	0.232 ppb	0.244 ppb	100.101 %	93.252 %	0.193 ppb	0.216 ppb	97.459 %	92.447 %	93.386 %
Concentration per Run 2	0.211 ppb	0.229 ppb	100.164 %	102.734 %	0.202 ppb	0.205 ppb	99.266 %	102.000 %	97.315 %
Concentration per Run 3	0.209 ppb	0.223 ppb	100.947 %	104.261 %	0.207 ppb	0.210 ppb	98.087 %	103.430 %	96.586 %
Concentration RSD	6.0 %	4.8 %	0.5 %	6.0 %	3.5 %	2.6 %	0.9 %	6.0 %	2.2 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	101.073 %	0.161 ppb	0.184 ppb	99.882 %	99.252 %
Concentration per Run 1	93.525 %	0.158 ppb	0.185 ppb	99.276 %	92.666 %
Concentration per Run 2	103.665 %	0.163 ppb	0.179 ppb	99.502 %	100.828 %
Concentration per Run 3	106.028 %	0.161 ppb	0.189 ppb	100.867 %	104.261 %
Concentration RSD	6.6 %	1.4 %	2.6 %	0.9 %	6.0 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	5	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	1/100 Cal	Rack	0		
Analysis started at:	6/10/2024 7:43:37 AM	Vial	3		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	98.651 %	101.964 %	0.936 ppb	0.975 ppb	98.698 ppb	105.091 ppb	0.503 ppb	101.286 ppb	155.639 ppb
Concentration per Run 1	98.877 %	100.561 %	0.932 ppb	0.990 ppb	105.743 ppb	113.231 ppb	0.958 ppb	105.999 ppb	170.633 ppb
Concentration per Run 2	98.676 %	100.982 %	0.968 ppb	0.980 ppb	97.565 ppb	96.765 ppb	0.484 ppb	97.716 ppb	156.055 ppb
Concentration per Run 3	98.399 %	104.348 %	0.908 ppb	0.955 ppb	92.785 ppb	105.278 ppb	0.067 ppb	100.144 ppb	140.231 ppb
Concentration RSD	0.2 %	2.0 %	3.2 %	1.8 %	6.6 %	7.8 %	88.7 %	4.2 %	9.8 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	99.797 %	99.643 %	1.135 ppb	1.406 ppb	1.074 ppb	105.754 ppb	1.076 ppb	1.040 ppb	1.055 ppb
Concentration per Run 1	102.640 %	96.976 %	1.174 ppb	1.441 ppb	1.150 ppb	117.986 ppb	1.198 ppb	1.080 ppb	1.214 ppb
Concentration per Run 2	89.985 %	101.228 %	1.115 ppb	1.406 ppb	1.066 ppb	102.920 ppb	1.082 ppb	1.085 ppb	1.030 ppb
Concentration per Run 3	106.767 %	100.725 %	1.117 ppb	1.371 ppb	1.005 ppb	96.357 ppb	0.949 ppb	0.954 ppb	0.922 ppb
Concentration RSD	8.8 %	2.3 %	3.0 %	2.5 %	6.8 %	10.5 %	11.6 %	7.2 %	14.0 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.948 ppb	99.691 %	99.919 %	1.011 ppb	1.056 ppb	1.068 ppb	0.968 ppb	98.564 %	100.392 %
Concentration per Run 1	1.009 ppb	101.313 %	91.614 %	1.120 ppb	0.903 ppb	1.119 ppb	1.105 ppb	98.811 %	93.760 %
Concentration per Run 2	0.976 ppb	99.282 %	102.764 %	0.903 ppb	1.174 ppb	1.071 ppb	0.902 ppb	99.444 %	102.196 %
Concentration per Run 3	0.860 ppb	98.479 %	105.378 %	1.010 ppb	1.090 ppb	1.014 ppb	0.896 ppb	97.438 %	105.222 %
Concentration RSD	8.3 %	1.5 %	7.3 %	10.7 %	13.1 %	5.0 %	12.3 %	1.0 %	5.9 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	1.023 ppb	1.053 ppb	100.263 %	101.973 %	1.004 ppb	0.980 ppb	97.135 %	100.616 %	96.522 %
Concentration per Run 1	1.100 ppb	1.129 ppb	102.293 %	97.547 %	1.062 ppb	0.994 ppb	97.399 %	94.936 %	98.882 %
Concentration per Run 2	1.009 ppb	1.025 ppb	99.575 %	102.937 %	0.977 ppb	0.965 ppb	98.194 %	102.648 %	95.462 %
Concentration per Run 3	0.961 ppb	1.004 ppb	98.920 %	105.435 %	0.974 ppb	0.980 ppb	95.813 %	104.264 %	95.223 %
Concentration RSD	6.9 %	6.4 %	1.8 %	4.0 %	5.0 %	1.5 %	1.2 %	5.0 %	2.1 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	103.864 %	0.779 ppb	0.900 ppb	100.050 %	102.305 %
Concentration per Run 1	98.722 %	0.774 ppb	0.885 ppb	100.829 %	95.047 %
Concentration per Run 2	105.234 %	0.770 ppb	0.882 ppb	102.256 %	103.954 %
Concentration per Run 3	107.637 %	0.792 ppb	0.932 ppb	97.063 %	107.914 %
Concentration RSD	4.4 %	1.5 %	3.1 %	2.7 %	6.4 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 6 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: 10/10000 Cal Rack 0
Analysis started at: 6/10/2024 7:48:18 AM Vial 4

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	97.971 %	96.003 %	9.827 ppb	9.799 ppb	1,080.710 ppb	1,049.001 ppb	10.972 ppb	1,121.534 ppb	1,284.120 ppb
Concentration per Run 1	98.786 %	96.564 %	9.725 ppb	9.706 ppb	1,125.919 ppb	1,081.471 ppb	13.246 ppb	1,156.988 ppb	1,268.869 ppb
Concentration per Run 2	97.612 %	92.987 %	9.886 ppb	9.941 ppb	1,082.254 ppb	1,042.103 ppb	10.390 ppb	1,120.647 ppb	1,335.384 ppb
Concentration per Run 3	97.516 %	98.457 %	9.869 ppb	9.748 ppb	1,033.957 ppb	1,023.428 ppb	9.279 ppb	1,086.967 ppb	1,248.108 ppb
Concentration RSD	0.7 %	2.9 %	0.9 %	1.3 %	4.3 %	2.8 %	18.7 %	3.1 %	3.6 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	100.862 %	100.557 %	10.875 ppb	11.358 ppb	11.194 ppb	1,079.526 ppb	10.951 ppb	11.056 ppb	10.699 ppb
Concentration per Run 1	104.768 %	97.593 %	11.790 ppb	12.381 ppb	12.036 ppb	1,139.661 ppb	11.797 ppb	11.804 ppb	11.679 ppb
Concentration per Run 2	93.494 %	101.942 %	10.509 ppb	10.809 ppb	10.723 ppb	1,063.005 ppb	10.651 ppb	11.052 ppb	10.478 ppb
Concentration per Run 3	104.325 %	102.137 %	10.326 ppb	10.883 ppb	10.823 ppb	1,035.913 ppb	10.406 ppb	10.312 ppb	9.939 ppb
Concentration RSD	6.3 %	2.6 %	7.3 %	7.8 %	6.5 %	5.0 %	6.8 %	6.8 %	8.3 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	10.264 ppb	101.456 %	103.313 %	9.899 ppb	10.131 ppb	10.018 ppb	9.971 ppb	99.018 %	100.632 %
Concentration per Run 1	11.284 ppb	101.012 %	94.784 %	10.987 ppb	11.057 ppb	10.723 ppb	10.965 ppb	99.750 %	93.837 %
Concentration per Run 2	9.959 ppb	102.602 %	106.084 %	9.170 ppb	9.899 ppb	9.765 ppb	9.813 ppb	99.228 %	103.217 %
Concentration per Run 3	9.549 ppb	100.754 %	109.071 %	9.540 ppb	9.437 ppb	9.565 ppb	9.134 ppb	98.074 %	104.842 %
Concentration RSD	8.8 %	1.0 %	7.3 %	9.7 %	8.2 %	6.2 %	9.3 %	0.9 %	5.9 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	10.551 ppb	10.496 ppb	99.618 %	100.869 %	10.251 ppb	9.942 ppb	98.945 %	101.387 %	97.002 %
Concentration per Run 1	11.631 ppb	11.702 ppb	100.119 %	93.254 %	11.063 ppb	9.987 ppb	99.469 %	95.355 %	97.600 %
Concentration per Run 2	10.189 ppb	10.021 ppb	99.153 %	104.993 %	9.801 ppb	9.679 ppb	101.017 %	103.118 %	96.639 %
Concentration per Run 3	9.833 ppb	9.764 ppb	99.583 %	104.360 %	9.889 ppb	10.161 ppb	96.349 %	105.689 %	96.766 %
Concentration RSD	9.0 %	10.0 %	0.5 %	6.5 %	6.9 %	2.5 %	2.4 %	5.3 %	0.5 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	103.722 %	7.942 ppb	9.077 ppb	100.257 %	99.926 %
Concentration per Run 1	94.895 %	7.971 ppb	9.090 ppb	100.750 %	93.601 %
Concentration per Run 2	107.002 %	8.166 ppb	9.207 ppb	98.764 %	101.555 %
Concentration per Run 3	109.270 %	7.691 ppb	8.932 ppb	101.259 %	104.623 %
Concentration RSD	7.5 %	3.0 %	1.5 %	1.3 %	5.7 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	7	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	60/6000 Cal	Rack	0		
Analysis started at:	6/10/2024 7:53:00 AM	Vial	5		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	95.508 %	93.057 %	58.279 ppb	58.072 ppb	6,155.380 ppb	6,072.051 ppb	59.849 ppb	6,160.940 ppb	6,235.411 ppb
Concentration per Run 1	95.583 %	91.094 %	58.166 ppb	57.565 ppb	6,484.170 ppb	6,462.233 ppb	57.901 ppb	6,498.222 ppb	6,611.248 ppb
Concentration per Run 2	95.587 %	88.359 %	58.641 ppb	58.146 ppb	6,172.404 ppb	5,974.517 ppb	68.598 ppb	6,064.708 ppb	6,008.269 ppb
Concentration per Run 3	95.353 %	99.720 %	58.028 ppb	58.504 ppb	5,809.567 ppb	5,779.403 ppb	53.047 ppb	5,919.892 ppb	6,086.716 ppb
Concentration RSD	0.1 %	6.4 %	0.6 %	0.8 %	5.5 %	5.8 %	13.3 %	4.9 %	5.3 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	98.488 %	106.805 %	60.753 ppb	60.707 ppb	60.639 ppb	6,035.454 ppb	60.536 ppb	61.472 ppb	60.259 ppb
Concentration per Run 1	106.492 %	100.871 %	63.843 ppb	65.832 ppb	65.096 ppb	6,429.020 ppb	64.559 ppb	65.692 ppb	63.725 ppb
Concentration per Run 2	96.023 %	109.277 %	58.778 ppb	57.922 ppb	58.754 ppb	5,921.821 ppb	58.655 ppb	59.765 ppb	59.349 ppb
Concentration per Run 3	92.950 %	110.267 %	59.639 ppb	58.367 ppb	58.068 ppb	5,755.520 ppb	58.394 ppb	58.958 ppb	57.702 ppb
Concentration RSD	7.2 %	4.8 %	4.5 %	7.3 %	6.4 %	5.8 %	5.8 %	6.0 %	5.2 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	63.742 ppb	101.405 %	100.954 %	59.292 ppb	58.724 ppb	59.046 ppb	58.468 ppb	97.746 %	98.149 %
Concentration per Run 1	67.536 ppb	101.584 %	95.951 %	63.568 ppb	61.401 ppb	62.642 ppb	60.964 ppb	97.475 %	94.764 %
Concentration per Run 2	62.573 ppb	101.881 %	103.232 %	57.515 ppb	57.159 ppb	57.558 ppb	58.210 ppb	97.931 %	99.468 %
Concentration per Run 3	61.118 ppb	100.749 %	103.681 %	56.793 ppb	57.612 ppb	56.939 ppb	56.232 ppb	97.830 %	100.213 %
Concentration RSD	5.3 %	0.6 %	4.3 %	6.3 %	4.0 %	5.3 %	4.1 %	0.2 %	3.0 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	59.976 ppb	59.524 ppb	98.338 %	102.801 %	59.605 ppb	60.010 ppb	99.106 %	101.558 %	99.462 %
Concentration per Run 1	63.491 ppb	62.672 ppb	100.152 %	97.898 %	63.130 ppb	58.530 ppb	98.324 %	97.912 %	98.526 %
Concentration per Run 2	58.763 ppb	58.491 ppb	98.290 %	104.227 %	58.129 ppb	60.112 ppb	99.613 %	102.249 %	100.241 %
Concentration per Run 3	57.676 ppb	57.410 ppb	96.573 %	106.278 %	57.555 ppb	61.388 ppb	99.381 %	104.513 %	99.620 %
Concentration RSD	5.2 %	4.7 %	1.8 %	4.2 %	5.1 %	2.4 %	0.7 %	3.3 %	0.9 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	101.867 %	58.372 ppb	60.156 ppb	100.391 %	100.562 %
Concentration per Run 1	96.630 %	59.614 ppb	61.845 ppb	98.430 %	92.952 %
Concentration per Run 2	102.503 %	57.286 ppb	58.489 ppb	102.474 %	101.780 %
Concentration per Run 3	106.467 %	58.217 ppb	60.132 ppb	100.268 %	106.954 %
Concentration RSD	4.9 %	2.0 %	2.8 %	2.0 %	7.0 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 8 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: 120/120000 Cal Rack 0
Analysis started at: 6/10/2024 7:57:43 AM Vial 6

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	94.756 %	92.637 %	120.876 ppb	120.981 ppb	11,915.596 ppb	11,959.842 ppb	121.359 ppb	11,909.398 ppb	11,857.838 ppb
Concentration per Run 1	95.341 %	87.728 %	119.984 ppb	119.550 ppb	12,554.807 ppb	12,647.975 ppb	122.831 ppb	12,176.868 ppb	11,960.667 ppb
Concentration per Run 2	94.412 %	92.777 %	121.669 ppb	121.834 ppb	11,818.865 ppb	11,859.642 ppb	137.567 ppb	12,007.844 ppb	12,119.272 ppb
Concentration per Run 3	94.515 %	97.405 %	120.974 ppb	121.558 ppb	11,373.114 ppb	11,371.908 ppb	112.679 ppb	11,543.480 ppb	11,493.576 ppb
Concentration RSD	0.5 %	5.2 %	0.7 %	1.0 %	5.0 %	5.4 %	10.1 %	2.8 %	2.7 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	95.283 %	110.684 %	119.549 ppb	119.529 ppb	119.580 ppb	11,975.591 ppb	119.652 ppb	119.176 ppb	119.812 ppb
Concentration per Run 1	97.263 %	108.109 %	123.837 ppb	124.748 ppb	123.021 ppb	12,298.051 ppb	124.391 ppb	123.617 ppb	123.290 ppb
Concentration per Run 2	94.956 %	109.878 %	117.192 ppb	117.789 ppb	118.748 ppb	11,931.607 ppb	115.559 ppb	121.636 ppb	117.906 ppb
Concentration per Run 3	93.628 %	114.065 %	117.619 ppb	116.052 ppb	116.972 ppb	11,697.116 ppb	119.006 ppb	112.274 ppb	118.240 ppb
Concentration RSD	1.9 %	2.8 %	3.1 %	3.8 %	2.6 %	2.5 %	3.7 %	5.1 %	2.5 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	118.106 ppb	102.733 %	101.763 %	120.362 ppb	120.627 ppb	120.475 ppb	120.768 ppb	96.586 %	98.705 %
Concentration per Run 1	122.157 ppb	102.973 %	98.885 %	124.936 ppb	127.332 ppb	124.368 ppb	125.542 ppb	95.880 %	94.352 %
Concentration per Run 2	114.994 ppb	102.505 %	105.918 %	114.859 ppb	113.397 ppb	114.893 ppb	119.351 ppb	96.964 %	99.790 %
Concentration per Run 3	117.167 ppb	102.719 %	100.486 %	121.292 ppb	121.151 ppb	122.163 ppb	117.412 ppb	96.913 %	101.972 %
Concentration RSD	3.1 %	0.2 %	3.6 %	4.2 %	5.8 %	4.1 %	3.5 %	0.6 %	4.0 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	119.966 ppb	120.196 ppb	98.375 %	103.952 %	120.177 ppb	119.300 ppb	97.567 %	103.042 %	97.071 %
Concentration per Run 1	125.168 ppb	125.488 ppb	97.803 %	98.920 %	125.482 ppb	120.093 ppb	99.582 %	98.885 %	100.015 %
Concentration per Run 2	119.160 ppb	117.123 ppb	98.478 %	105.493 %	118.765 ppb	116.882 ppb	97.312 %	104.550 %	95.850 %
Concentration per Run 3	115.568 ppb	117.978 ppb	98.842 %	107.442 %	116.283 ppb	120.925 ppb	95.807 %	105.690 %	95.347 %
Concentration RSD	4.0 %	3.8 %	0.5 %	4.3 %	4.0 %	1.8 %	1.9 %	3.5 %	2.6 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	105.317 %	120.987 ppb	128.095 ppb	96.315 %	102.156 %
Concentration per Run 1	99.547 %	121.375 ppb	126.472 ppb	96.872 %	98.175 %
Concentration per Run 2	107.989 %	122.915 ppb	129.201 ppb	95.589 %	104.541 %
Concentration per Run 3	108.416 %	118.671 ppb	128.611 ppb	96.485 %	103.753 %
Concentration RSD	4.7 %	1.8 %	1.1 %	0.7 %	3.4 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	9	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	Sr 200ppb	Rack	4		
Analysis started at:	6/10/2024 8:03:52 AM	Vial	55		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	97.732 %	95.792 %	0.028 ppb	0.204 ppb	-1.309 ppb	3.323 ppb	1.134 ppb	-11.550 ppb	1.958 ppb
Concentration per Run 1	97.894 %	86.676 %	0.030 ppb	0.208 ppb	3.198 ppb	4.081 ppb	2.586 ppb	-12.963 ppb	32.197 ppb
Concentration per Run 2	98.261 %	103.086 %	0.027 ppb	0.202 ppb	-3.874 ppb	3.480 ppb	0.394 ppb	-10.467 ppb	11.707 ppb
Concentration per Run 3	97.040 %	97.616 %	0.028 ppb	0.202 ppb	-3.251 ppb	2.409 ppb	0.422 ppb	-11.220 ppb	-38.032 ppb
Concentration RSD	0.6 %	8.7 %	5.1 %	1.5 %	299.2 %	25.5 %	110.9 %	11.1 %	1,844.9 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	92.650 %	106.156 %	-0.002 ppb	0.288 ppb	0.068 ppb	7.579 ppb	0.015 ppb	0.243 ppb	0.054 ppb
Concentration per Run 1	94.046 %	106.405 %	-0.020 ppb	0.321 ppb	0.078 ppb	7.657 ppb	0.012 ppb	0.298 ppb	0.055 ppb
Concentration per Run 2	93.448 %	104.490 %	0.012 ppb	0.277 ppb	0.065 ppb	7.691 ppb	0.018 ppb	0.184 ppb	0.062 ppb
Concentration per Run 3	90.457 %	107.573 %	0.003 ppb	0.266 ppb	0.061 ppb	7.390 ppb	0.015 ppb	0.245 ppb	0.047 ppb
Concentration RSD	2.1 %	1.5 %	856.6 %	10.2 %	12.6 %	2.2 %	21.0 %	23.7 %	14.1 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	1.223 ppb	102.437 %	105.841 %	0.049 ppb	0.037 ppb	196.238 ppb	0.228 ppb	100.460 %	104.954 %
Concentration per Run 1	1.223 ppb	103.476 %	105.339 %	0.053 ppb	-0.044 ppb	197.715 ppb	0.156 ppb	100.845 %	102.350 %
Concentration per Run 2	1.275 ppb	102.185 %	104.814 %	-0.002 ppb	0.106 ppb	194.784 ppb	0.252 ppb	100.602 %	105.246 %
Concentration per Run 3	1.172 ppb	101.651 %	107.369 %	0.096 ppb	0.050 ppb	196.216 ppb	0.276 ppb	99.934 %	107.265 %
Concentration RSD	4.2 %	0.9 %	1.3 %	99.7 %	203.7 %	0.7 %	27.8 %	0.5 %	2.4 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.009 ppb	0.008 ppb	102.489 %	108.447 %	0.026 ppb	0.076 ppb	99.852 %	106.462 %	99.058 %
Concentration per Run 1	0.009 ppb	0.009 ppb	102.047 %	106.139 %	0.018 ppb	0.084 ppb	100.542 %	103.733 %	99.558 %
Concentration per Run 2	0.010 ppb	0.008 ppb	103.668 %	109.325 %	0.023 ppb	0.073 ppb	102.052 %	108.491 %	101.041 %
Concentration per Run 3	0.009 ppb	0.007 ppb	101.752 %	109.877 %	0.037 ppb	0.071 ppb	96.963 %	107.163 %	96.575 %
Concentration RSD	5.2 %	15.1 %	1.0 %	1.9 %	38.3 %	9.1 %	2.6 %	2.3 %	2.3 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	109.869 %	0.246 ppb	0.013 ppb	101.572 %	109.021 %
Concentration per Run 1	105.372 %	0.260 ppb	0.013 ppb	103.267 %	107.792 %
Concentration per Run 2	110.849 %	0.245 ppb	0.013 ppb	102.664 %	110.209 %
Concentration per Run 3	113.386 %	0.234 ppb	0.013 ppb	98.785 %	109.062 %
Concentration RSD	3.7 %	5.4 %	1.1 %	2.4 %	1.1 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 10 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: ICV Rack 0
Analysis started at: 6/10/2024 8:08:36 AM Vial 7

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	94.333 %	95.863 %	47.954 ppb	47.559 ppb	4,849.120 ppb	4,850.684 ppb	50.876 ppb	4,951.438 ppb	5,041.279 ppb
Concentration per Run 1	94.072 %	96.985 %	47.672 ppb	48.195 ppb	4,937.857 ppb	4,820.726 ppb	51.247 ppb	5,017.794 ppb	5,256.127 ppb
Concentration per Run 2	94.909 %	93.198 %	47.734 ppb	47.866 ppb	4,894.968 ppb	4,988.269 ppb	49.983 ppb	5,022.915 ppb	5,077.851 ppb
Concentration per Run 3	94.018 %	97.405 %	48.458 ppb	46.617 ppb	4,714.534 ppb	4,743.057 ppb	51.399 ppb	4,813.605 ppb	4,789.859 ppb
Recovery Percentage 1			95.909 %	95.119 %	96.982 %	97.014 %	101.752 %	99.029 %	100.826 %
Concentration RSD	0.5 %	2.4 %	0.9 %	1.7 %	2.4 %	2.6 %	1.5 %	2.4 %	4.7 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	97.654 %	107.779 %	48.513 ppb	48.667 ppb	49.421 ppb	4,834.558 ppb	48.415 ppb	49.305 ppb	47.669 ppb
Concentration per Run 1	91.767 %	105.983 %	49.501 ppb	49.848 ppb	50.736 ppb	5,019.014 ppb	51.585 ppb	51.759 ppb	50.039 ppb
Concentration per Run 2	91.501 %	107.021 %	48.473 ppb	49.028 ppb	49.371 ppb	4,912.469 ppb	47.802 ppb	49.201 ppb	47.343 ppb
Concentration per Run 3	109.695 %	110.332 %	47.565 ppb	47.126 ppb	48.156 ppb	4,572.190 ppb	45.859 ppb	46.955 ppb	45.626 ppb
Recovery Percentage 1			97.027 %	97.335 %	98.842 %	96.691 %	96.831 %	98.610 %	95.339 %
Concentration RSD	10.7 %	2.1 %	2.0 %	2.9 %	2.6 %	4.8 %	6.0 %	4.9 %	4.7 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	46.827 ppb	100.770 %	104.756 %	47.323 ppb	47.500 ppb	46.199 ppb	46.919 ppb	96.418 %	100.855 %
Concentration per Run 1	47.747 ppb	103.169 %	100.290 %	49.627 ppb	49.736 ppb	46.999 ppb	47.557 ppb	95.480 %	100.690 %
Concentration per Run 2	46.582 ppb	98.189 %	105.169 %	46.597 ppb	46.269 ppb	46.193 ppb	47.206 ppb	97.576 %	100.592 %
Concentration per Run 3	46.151 ppb	100.954 %	108.809 %	45.746 ppb	46.495 ppb	45.403 ppb	45.993 ppb	96.199 %	101.282 %
Recovery Percentage 1	93.653 %			94.646 %	95.000 %	92.397 %	93.837 %		
Concentration RSD	1.8 %	2.5 %	4.1 %	4.3 %	4.1 %	1.7 %	1.7 %	1.1 %	0.4 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	46.817 ppb	47.774 ppb	99.115 %	103.650 %	48.566 ppb	48.425 ppb	98.388 %	105.319 %	97.586 %
Concentration per Run 1	46.779 ppb	47.980 ppb	99.676 %	103.852 %	48.423 ppb	49.602 ppb	98.464 %	103.821 %	96.017 %
Concentration per Run 2	47.550 ppb	48.029 ppb	98.711 %	102.413 %	48.380 ppb	48.286 ppb	99.316 %	105.538 %	98.478 %
Concentration per Run 3	46.122 ppb	47.314 ppb	98.959 %	104.686 %	48.896 ppb	47.386 ppb	97.382 %	106.599 %	98.263 %
Recovery Percentage 1	93.633 %	95.549 %			97.133 %	96.850 %			
Concentration RSD	1.5 %	0.8 %	0.5 %	1.1 %	0.6 %	2.3 %	1.0 %	1.3 %	1.4 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	106.777 %	48.370 ppb	45.319 ppb	98.456 %	104.966 %
Concentration per Run 1	105.012 %	48.828 ppb	45.997 ppb	95.867 %	103.608 %
Concentration per Run 2	106.976 %	48.066 ppb	45.403 ppb	99.192 %	104.945 %
Concentration per Run 3	108.344 %	48.215 ppb	44.556 ppb	100.310 %	106.345 %
Recovery Percentage 1		96.739 %	90.638 %		
Concentration RSD	1.6 %	0.8 %	1.6 %	2.3 %	1.3 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 11 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: ICB Rack 0
Analysis started at: 6/10/2024 8:13:20 AM Vial 10

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	96.832 %	98.036 %	0.026 ppb	0.425 ppb	-6.728 ppb	-0.083 ppb	-1.385 ppb	-10.836 ppb	4.696 ppb
Concentration per Run 1	98.120 %	94.460 %	0.024 ppb	0.409 ppb	-3.293 ppb	-0.974 ppb	-2.114 ppb	1.043 ppb	7.550 ppb
Concentration per Run 2	96.295 %	100.561 %	0.028 ppb	0.443 ppb	-10.444 ppb	1.175 ppb	-1.013 ppb	-14.271 ppb	0.137 ppb
Concentration per Run 3	96.081 %	99.088 %	0.027 ppb	0.424 ppb	-6.446 ppb	-0.448 ppb	-1.029 ppb	-19.281 ppb	6.401 ppb
Recovery Percentage 1			5.227 %	4.254 %	-6.728 %	-0.118 %	-13.853 %	-10.836 %	4.696 %
Concentration RSD	1.2 %	3.2 %	8.5 %	3.9 %	53.3 %	1,355.5 %	45.6 %	97.7 %	85.0 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	102.729 %	98.891 %	0.000 ppb	0.012 ppb	-0.010 ppb	2.227 ppb	0.003 ppb	0.028 ppb	-0.001 ppb
Concentration per Run 1	109.224 %	94.380 %	-0.005 ppb	0.024 ppb	0.001 ppb	3.381 ppb	0.004 ppb	0.043 ppb	-0.005 ppb
Concentration per Run 2	91.336 %	99.719 %	0.013 ppb	-0.001 ppb	-0.028 ppb	2.275 ppb	0.002 ppb	0.029 ppb	0.000 ppb
Concentration per Run 3	107.628 %	102.575 %	-0.008 ppb	0.012 ppb	-0.002 ppb	1.025 ppb	0.004 ppb	0.010 ppb	0.003 ppb
Recovery Percentage 1			0.002 %	1.166 %	-0.990 %	4.454 %	0.673 %	1.383 %	-0.065 %
Concentration RSD	9.6 %	4.2 %	13,503.7 %	107.0 %	161.7 %	52.9 %	30.8 %	60.3 %	564.9 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	-0.098 ppb	100.855 %	103.742 %	0.061 ppb	0.094 ppb	-0.005 ppb	0.229 ppb	101.246 %	101.541 %
Concentration per Run 1	-0.083 ppb	102.062 %	95.042 %	0.015 ppb	0.092 ppb	0.000 ppb	0.185 ppb	100.192 %	95.909 %
Concentration per Run 2	-0.104 ppb	101.699 %	106.804 %	0.060 ppb	0.143 ppb	-0.014 ppb	0.251 ppb	103.666 %	103.986 %
Concentration per Run 3	-0.106 ppb	98.805 %	109.380 %	0.109 ppb	0.047 ppb	0.000 ppb	0.250 ppb	99.880 %	104.729 %
Recovery Percentage 1	-1.951 %			12.269 %	1.884 %	-0.920 %	11.445 %		
Concentration RSD	13.0 %	1.8 %	7.4 %	76.6 %	51.1 %	185.8 %	16.6 %	2.1 %	4.8 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.004 ppb	0.002 ppb	100.932 %	104.572 %	0.057 ppb	0.013 ppb	99.972 %	103.892 %	99.016 %
Concentration per Run 1	0.002 ppb	0.004 ppb	101.523 %	98.746 %	0.051 ppb	0.007 ppb	100.704 %	98.073 %	98.409 %
Concentration per Run 2	0.006 ppb	0.002 ppb	99.905 %	106.778 %	0.057 ppb	0.017 ppb	99.633 %	106.185 %	97.653 %
Concentration per Run 3	0.004 ppb	0.002 ppb	101.367 %	108.191 %	0.061 ppb	0.014 ppb	99.580 %	107.419 %	100.985 %
Recovery Percentage 1	1.028 %				1.416 %	2.501 %			
Concentration RSD	40.1 %	55.7 %	0.9 %	4.9 %	8.8 %	42.0 %	0.6 %	4.9 %	1.8 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	105.394 %	0.224 ppb	0.010 ppb	102.497 %	103.085 %
Concentration per Run 1	98.768 %	0.239 ppb	0.006 ppb	102.810 %	97.486 %
Concentration per Run 2	107.903 %	0.227 ppb	0.013 ppb	102.896 %	106.342 %
Concentration per Run 3	109.511 %	0.205 ppb	0.011 ppb	101.786 %	105.427 %
Recovery Percentage 1		22.362 %	0.970 %		
Concentration RSD	5.5 %	7.7 %	34.0 %	0.6 %	4.7 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	12	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	ICSA	Rack	4		
Analysis started at:	6/10/2024 8:19:24 AM	Vial	53		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	83.440 %	88.008 %	0.035 ppb	2.972 ppb	211,189.774 ppb	75,150.551 ppb	104,989.478 ppb	83,067.662 ppb	289,980.379 ppb
Concentration per Run 1	83.641 %	89.621 %	0.037 ppb	2.956 ppb	217,761.282 ppb	79,871.098 ppb	106,993.161 ppb	85,991.884 ppb	305,276.031 ppb
Concentration per Run 2	83.284 %	86.886 %	0.032 ppb	2.978 ppb	210,717.312 ppb	73,626.964 ppb	105,264.223 ppb	83,009.611 ppb	287,585.674 ppb
Concentration per Run 3	83.395 %	87.517 %	0.036 ppb	2.984 ppb	205,090.728 ppb	71,953.590 ppb	102,711.050 ppb	80,201.492 ppb	277,079.431 ppb
Recovery Percentage 1			3.470 %	14.862 %	84.476 %	75.151 %	104.989 %	83.068 %	96.660 %
Concentration RSD	0.2 %	1.6 %	7.6 %	0.5 %	3.0 %	5.6 %	2.1 %	3.5 %	4.9 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	106.428 %	106.372 %	0.094 ppb	1.743 ppb	4.599 ppb	224,605.560 ppb	1.988 ppb	2.686 ppb	0.927 ppb
Concentration per Run 1	107.332 %	102.575 %	0.107 ppb	1.807 ppb	4.872 ppb	234,229.604 ppb	2.126 ppb	2.924 ppb	0.951 ppb
Concentration per Run 2	108.762 %	107.005 %	0.100 ppb	1.688 ppb	4.491 ppb	218,962.373 ppb	1.981 ppb	2.527 ppb	0.930 ppb
Concentration per Run 3	103.190 %	109.537 %	0.075 ppb	1.734 ppb	4.435 ppb	220,624.704 ppb	1.857 ppb	2.606 ppb	0.900 ppb
Recovery Percentage 1			1.879 %	52.819 %	80.688 %	89.842 %	69.265 %	44.025 %	32.882 %
Concentration RSD	2.7 %	3.3 %	17.6 %	3.4 %	5.2 %	3.7 %	6.8 %	7.8 %	2.8 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	2.559 ppb	100.794 %	104.022 %	0.396 ppb	4.584 ppb	2.478 ppb	1,991.703 ppb	81.082 %	85.469 %
Concentration per Run 1	2.668 ppb	99.928 %	100.509 %	0.487 ppb	4.267 ppb	2.728 ppb	2,110.037 ppb	79.332 %	81.416 %
Concentration per Run 2	2.442 ppb	100.730 %	106.991 %	0.313 ppb	4.718 ppb	2.289 ppb	1,925.143 ppb	82.873 %	86.676 %
Concentration per Run 3	2.567 ppb	101.724 %	104.566 %	0.388 ppb	4.767 ppb	2.417 ppb	1,939.929 ppb	81.041 %	88.314 %
Recovery Percentage 1	22.449 %			24.300 %	35.533 %	91.774 %	99.585 %		
Concentration RSD	4.4 %	0.9 %	3.1 %	22.1 %	6.0 %	9.1 %	5.2 %	2.2 %	4.2 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.021 ppb	0.316 ppb	77.296 %	92.035 %	0.184 ppb	1.357 ppb	84.984 %	92.719 %	80.459 %
Concentration per Run 1	0.024 ppb	0.361 ppb	76.025 %	87.218 %	0.203 ppb	1.357 ppb	82.959 %	88.440 %	80.122 %
Concentration per Run 2	0.019 ppb	0.313 ppb	76.406 %	93.567 %	0.166 ppb	1.345 ppb	87.231 %	94.262 %	79.610 %
Concentration per Run 3	0.020 ppb	0.273 ppb	79.457 %	95.321 %	0.182 ppb	1.368 ppb	84.761 %	95.456 %	81.645 %
Recovery Percentage 1	2.604 %	78.902 %			2.301 %	72.168 %			
Concentration RSD	12.5 %	14.0 %	2.4 %	4.6 %	10.0 %	0.8 %	2.5 %	4.0 %	1.3 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	97.108 %	0.110 ppb	1.613 ppb	78.374 %	84.700 %
Concentration per Run 1	91.132 %	0.117 ppb	1.565 ppb	78.791 %	80.048 %
Concentration per Run 2	101.296 %	0.107 ppb	1.631 ppb	77.888 %	85.495 %
Concentration per Run 3	98.898 %	0.105 ppb	1.643 ppb	78.444 %	88.556 %
Recovery Percentage 1		5.477 %	52.038 %		
Concentration RSD	5.5 %	5.6 %	2.6 %	0.6 %	5.1 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 13 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: LDR Check - 10/1 Rack 4
Analysis started at: 6/10/2024 8:24:08 AM Vial 1

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	97.514 %	93.268 %	0.010 ppb	0.202 ppb	45.502 ppb	22.418 ppb	21.311 ppb	14.438 ppb	54.549 ppb
Concentration per Run 1	97.365 %	84.993 %	0.014 ppb	0.200 ppb	116.999 ppb	49.741 ppb	47.617 ppb	39.613 ppb	151.836 ppb
Concentration per Run 2	97.768 %	95.722 %	0.008 ppb	0.205 ppb	11.154 ppb	9.258 ppb	10.575 ppb	4.737 ppb	4.079 ppb
Concentration per Run 3	97.407 %	99.088 %	0.008 ppb	0.201 ppb	8.354 ppb	8.256 ppb	5.740 ppb	-1.036 ppb	7.731 ppb
Concentration RSD	0.2 %	7.9 %	29.2 %	1.4 %	136.1 %	105.6 %	107.5 %	152.3 %	154.5 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	97.761 %	100.314 %	0.031 ppb	0.016 ppb	9,932.951 ppb	57.514 ppb	0.018 ppb	10,473.740 ppb	10,538.511 ppb
Concentration per Run 1	92.811 %	94.672 %	0.029 ppb	0.016 ppb	10,754.752 ppb	108.599 ppb	0.019 ppb	11,349.673 ppb	11,189.081 ppb
Concentration per Run 2	109.985 %	102.380 %	0.012 ppb	0.012 ppb	9,557.703 ppb	33.940 ppb	0.022 ppb	9,884.218 ppb	9,981.152 ppb
Concentration per Run 3	90.488 %	103.889 %	0.051 ppb	0.021 ppb	9,486.399 ppb	30.002 ppb	0.014 ppb	10,187.328 ppb	10,445.301 ppb
Concentration RSD	10.9 %	4.9 %	63.7 %	30.5 %	7.2 %	77.0 %	22.2 %	7.4 %	5.8 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	10,674.667 ppb	108.226 %	106.320 %	1,011.113 ppb	0.606 ppb	0.208 ppb	2.767 ppb	99.609 %	104.568 %
Concentration per Run 1	11,599.255 ppb	108.677 %	99.419 %	1,084.443 ppb	0.636 ppb	0.231 ppb	2.811 ppb	99.767 %	99.115 %
Concentration per Run 2	10,239.290 ppb	107.309 %	110.423 %	976.300 ppb	0.604 ppb	0.225 ppb	2.724 ppb	99.795 %	105.491 %
Concentration per Run 3	10,185.457 ppb	108.692 %	109.118 %	972.597 ppb	0.578 ppb	0.169 ppb	2.765 ppb	99.265 %	109.097 %
Concentration RSD	7.5 %	0.7 %	5.7 %	6.3 %	4.8 %	16.3 %	1.6 %	0.3 %	4.8 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.164 ppb	0.081 ppb	98.196 %	107.740 %	0.968 ppb	10,965.810 ppb	97.694 %	105.447 %	97.156 %
Concentration per Run 1	0.165 ppb	0.090 ppb	97.810 %	101.081 %	1.057 ppb	10,749.904 ppb	96.493 %	97.323 %	98.488 %
Concentration per Run 2	0.169 ppb	0.078 ppb	98.282 %	110.867 %	0.938 ppb	10,950.249 ppb	99.033 %	110.160 %	96.623 %
Concentration per Run 3	0.158 ppb	0.075 ppb	98.494 %	111.273 %	0.910 ppb	11,197.277 ppb	97.556 %	108.859 %	96.359 %
Concentration RSD	3.4 %	9.9 %	0.4 %	5.4 %	8.1 %	2.0 %	1.3 %	6.7 %	1.2 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	109.808 %	0.074 ppb	10,875.575 ppb	103.262 %	105.528 %
Concentration per Run 1	99.057 %	0.075 ppb	10,696.653 ppb	103.529 %	97.153 %
Concentration per Run 2	112.759 %	0.075 ppb	11,056.441 ppb	101.949 %	105.249 %
Concentration per Run 3	117.607 %	0.073 ppb	10,873.632 ppb	104.309 %	114.181 %
Concentration RSD	8.8 %	1.3 %	1.7 %	1.2 %	8.1 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	14	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	Rinse	Rack	0		
Analysis started at:	6/10/2024 8:28:51 AM	Vial	1		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	94.433 %	92.567 %	0.010 ppb	0.264 ppb	-2.787 ppb	1.624 ppb	-0.140 ppb	-2.225 ppb	-0.050 ppb
Concentration per Run 1	95.458 %	91.725 %	0.012 ppb	0.272 ppb	-2.258 ppb	2.139 ppb	1.513 ppb	0.685 ppb	3.370 ppb
Concentration per Run 2	93.923 %	91.935 %	0.009 ppb	0.262 ppb	-5.051 ppb	2.074 ppb	-2.134 ppb	-2.704 ppb	-6.959 ppb
Concentration per Run 3	93.918 %	94.039 %	0.009 ppb	0.258 ppb	-1.053 ppb	0.657 ppb	0.201 ppb	-4.655 ppb	3.441 ppb
Concentration RSD	0.9 %	1.4 %	16.9 %	2.8 %	73.6 %	51.6 %	1,320.1 %	121.5 %	12,072.5 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	95.016 %	99.957 %	-0.006 ppb	0.014 ppb	0.724 ppb	8.912 ppb	0.007 ppb	0.607 ppb	0.422 ppb
Concentration per Run 1	89.047 %	97.674 %	-0.002 ppb	0.036 ppb	0.651 ppb	10.067 ppb	0.003 ppb	0.598 ppb	0.325 ppb
Concentration per Run 2	88.887 %	100.773 %	-0.011 ppb	0.005 ppb	0.998 ppb	7.488 ppb	0.007 ppb	0.821 ppb	0.610 ppb
Concentration per Run 3	107.113 %	101.423 %	-0.003 ppb	0.002 ppb	0.525 ppb	9.182 ppb	0.010 ppb	0.404 ppb	0.331 ppb
Concentration RSD	11.0 %	2.0 %	93.7 %	133.2 %	33.8 %	14.7 %	56.9 %	34.4 %	38.6 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	1.199 ppb	99.175 %	101.843 %	0.894 ppb	-0.022 ppb	0.008 ppb	0.558 ppb	99.405 %	101.905 %
Concentration per Run 1	1.224 ppb	101.149 %	95.022 %	0.823 ppb	-0.007 ppb	0.027 ppb	0.458 ppb	99.918 %	98.895 %
Concentration per Run 2	1.428 ppb	96.830 %	104.619 %	1.070 ppb	-0.008 ppb	0.018 ppb	0.592 ppb	98.767 %	102.778 %
Concentration per Run 3	0.945 ppb	99.548 %	105.889 %	0.790 ppb	-0.051 ppb	-0.020 ppb	0.623 ppb	99.530 %	104.041 %
Concentration RSD	20.2 %	2.2 %	5.8 %	17.1 %	114.5 %	302.1 %	15.8 %	0.6 %	2.6 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.001 ppb	99.384 %	105.777 %	0.042 ppb	0.350 ppb	96.257 %	105.443 %	96.921 %
Concentration per Run 1	0.000 ppb	0.002 ppb	98.542 %	103.238 %	0.029 ppb	0.391 ppb	97.055 %	102.745 %	96.792 %
Concentration per Run 2	0.000 ppb	0.002 ppb	98.855 %	104.976 %	0.055 ppb	0.349 ppb	94.807 %	106.804 %	98.029 %
Concentration per Run 3	0.001 ppb	0.001 ppb	100.754 %	109.116 %	0.040 ppb	0.311 ppb	96.911 %	106.781 %	95.943 %
Concentration RSD	257.8 %	45.6 %	1.2 %	2.9 %	31.4 %	11.3 %	1.3 %	2.2 %	1.1 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	108.501 %	0.039 ppb	0.229 ppb	101.485 %	107.241 %
Concentration per Run 1	103.125 %	0.039 ppb	0.265 ppb	103.006 %	101.347 %
Concentration per Run 2	111.622 %	0.040 ppb	0.237 ppb	102.292 %	110.232 %
Concentration per Run 3	110.755 %	0.039 ppb	0.185 ppb	99.158 %	110.145 %
Concentration RSD	4.3 %	1.8 %	17.8 %	2.0 %	4.8 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	15	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	6/10/2024 8:33:31 AM	Vial	9		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	91.684 %	92.777 %	59.007 ppb	57.659 ppb	5,943.377 ppb	5,958.870 ppb	60.666 ppb	6,188.664 ppb	6,546.756 ppb
Concentration per Run 1	92.302 %	91.094 %	58.407 ppb	57.008 ppb	6,206.813 ppb	6,294.639 ppb	63.120 ppb	6,445.541 ppb	6,727.403 ppb
Concentration per Run 2	91.235 %	90.463 %	59.768 ppb	57.576 ppb	5,921.844 ppb	5,845.339 ppb	64.899 ppb	6,032.640 ppb	6,548.658 ppb
Concentration per Run 3	91.515 %	96.774 %	58.845 ppb	58.392 ppb	5,701.473 ppb	5,736.632 ppb	53.978 ppb	6,087.812 ppb	6,364.208 ppb
Recovery Percentage 1			98.345 %	96.098 %	99.056 %	99.314 %	101.109 %	103.144 %	109.113 %
Concentration RSD	0.6 %	3.7 %	1.2 %	1.2 %	4.3 %	5.0 %	9.7 %	3.6 %	2.8 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	100.053 %	100.114 %	62.165 ppb	62.750 ppb	62.551 ppb	6,152.862 ppb	62.045 ppb	63.165 ppb	60.666 ppb
Concentration per Run 1	106.300 %	96.425 %	64.913 ppb	65.692 ppb	66.403 ppb	6,595.832 ppb	66.429 ppb	67.016 ppb	64.459 ppb
Concentration per Run 2	105.706 %	101.828 %	61.339 ppb	61.798 ppb	61.461 ppb	6,070.012 ppb	60.327 ppb	61.330 ppb	58.550 ppb
Concentration per Run 3	88.152 %	102.088 %	60.241 ppb	60.758 ppb	59.790 ppb	5,792.742 ppb	59.380 ppb	61.150 ppb	58.990 ppb
Recovery Percentage 1			103.608 %	104.583 %	104.252 %	102.548 %	103.409 %	105.276 %	101.110 %
Concentration RSD	10.3 %	3.2 %	3.9 %	4.1 %	5.5 %	6.6 %	6.2 %	5.3 %	5.4 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	60.497 ppb	99.204 %	98.679 %	60.411 ppb	60.444 ppb	59.820 ppb	58.472 ppb	91.863 %	96.273 %
Concentration per Run 1	63.653 ppb	98.647 %	92.539 %	65.365 ppb	66.649 ppb	62.586 ppb	61.525 ppb	87.619 %	92.605 %
Concentration per Run 2	59.526 ppb	98.928 %	99.333 %	58.915 ppb	61.093 ppb	58.932 ppb	58.429 ppb	93.563 %	97.413 %
Concentration per Run 3	58.312 ppb	100.038 %	104.163 %	56.952 ppb	53.589 ppb	57.943 ppb	55.463 ppb	94.405 %	98.802 %
Recovery Percentage 1	100.828 %			100.684 %	100.739 %	99.700 %	97.454 %		
Concentration RSD	4.6 %	0.7 %	5.9 %	7.3 %	10.8 %	4.1 %	5.2 %	4.0 %	3.4 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	60.071 ppb	60.276 ppb	97.697 %	100.154 %	59.486 ppb	59.768 ppb	98.236 %	101.328 %	98.534 %
Concentration per Run 1	63.886 ppb	64.220 ppb	98.474 %	93.641 %	63.092 ppb	58.828 ppb	98.311 %	96.414 %	99.427 %
Concentration per Run 2	58.250 ppb	59.029 ppb	97.343 %	103.200 %	57.594 ppb	59.852 ppb	97.460 %	104.013 %	98.690 %
Concentration per Run 3	58.077 ppb	57.578 ppb	97.273 %	103.620 %	57.771 ppb	60.624 ppb	98.937 %	103.555 %	97.484 %
Recovery Percentage 1	100.119 %	100.460 %			99.143 %	99.613 %			
Concentration RSD	5.5 %	5.8 %	0.7 %	5.6 %	5.3 %	1.5 %	0.8 %	4.2 %	1.0 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	103.503 %	59.616 ppb	59.946 ppb	98.126 %	99.442 %
Concentration per Run 1	98.135 %	58.876 ppb	59.180 ppb	97.924 %	92.945 %
Concentration per Run 2	105.101 %	60.437 ppb	60.461 ppb	96.837 %	103.267 %
Concentration per Run 3	107.272 %	59.534 ppb	60.198 ppb	99.617 %	102.114 %
Recovery Percentage 1		99.360 %	99.910 %		
Concentration RSD	4.6 %	1.3 %	1.1 %	1.4 %	5.7 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	16	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/10/2024 8:38:16 AM	Vial	10		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	92.756 %	91.725 %	0.025 ppb	0.395 ppb	-7.687 ppb	0.855 ppb	-0.820 ppb	-8.628 ppb	2.475 ppb
Concentration per Run 1	93.924 %	89.621 %	0.032 ppb	0.393 ppb	-4.608 ppb	0.963 ppb	-1.272 ppb	-3.879 ppb	3.875 ppb
Concentration per Run 2	91.868 %	84.993 %	0.018 ppb	0.394 ppb	-7.040 ppb	0.195 ppb	-1.258 ppb	-6.716 ppb	3.696 ppb
Concentration per Run 3	92.476 %	100.561 %	0.024 ppb	0.398 ppb	-11.414 ppb	1.406 ppb	0.069 ppb	-15.288 ppb	-0.148 ppb
Recovery Percentage 1			4.947 %	3.948 %	-7.687 %	1.221 %	-8.200 %	-8.628 %	2.475 %
Concentration RSD	1.1 %	8.7 %	29.8 %	0.7 %	44.9 %	71.7 %	93.9 %	68.8 %	91.8 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	104.450 %	98.918 %	-0.020 ppb	0.015 ppb	0.099 ppb	3.709 ppb	0.004 ppb	0.111 ppb	-0.001 ppb
Concentration per Run 1	104.958 %	95.207 %	-0.014 ppb	0.014 ppb	0.099 ppb	3.525 ppb	0.007 ppb	0.139 ppb	-0.003 ppb
Concentration per Run 2	102.926 %	97.723 %	-0.023 ppb	0.005 ppb	0.095 ppb	4.846 ppb	0.004 ppb	0.110 ppb	-0.008 ppb
Concentration per Run 3	105.465 %	103.824 %	-0.024 ppb	0.027 ppb	0.102 ppb	2.755 ppb	0.001 ppb	0.085 ppb	0.008 ppb
Recovery Percentage 1			-0.409 %	1.533 %	9.852 %	7.418 %	0.853 %	5.575 %	-0.081 %
Concentration RSD	1.3 %	4.5 %	26.5 %	73.7 %	3.4 %	28.5 %	69.4 %	24.3 %	1,008.5 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.107 ppb	99.525 %	100.160 %	0.155 ppb	0.043 ppb	-0.005 ppb	0.320 ppb	99.082 %	100.517 %
Concentration per Run 1	0.172 ppb	101.831 %	97.097 %	0.097 ppb	-0.006 ppb	0.001 ppb	0.240 ppb	98.182 %	98.052 %
Concentration per Run 2	0.094 ppb	98.562 %	103.571 %	0.231 ppb	0.055 ppb	-0.007 ppb	0.341 ppb	98.452 %	100.575 %
Concentration per Run 3	0.055 ppb	98.181 %	99.813 %	0.138 ppb	0.080 ppb	-0.009 ppb	0.380 ppb	100.611 %	102.925 %
Recovery Percentage 1	2.136 %			31.094 %	0.863 %	-0.976 %	16.011 %		
Concentration RSD	55.7 %	2.0 %	3.2 %	44.2 %	102.4 %	111.7 %	22.5 %	1.3 %	2.4 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.004 ppb	0.003 ppb	99.068 %	102.620 %	0.043 ppb	0.102 ppb	101.250 %	102.780 %	99.007 %
Concentration per Run 1	0.005 ppb	0.005 ppb	101.228 %	96.409 %	0.037 ppb	0.108 ppb	101.098 %	98.289 %	96.165 %
Concentration per Run 2	0.004 ppb	0.004 ppb	99.487 %	105.272 %	0.043 ppb	0.103 ppb	102.288 %	105.486 %	101.809 %
Concentration per Run 3	0.003 ppb	0.001 ppb	96.488 %	106.178 %	0.049 ppb	0.094 ppb	100.364 %	104.566 %	99.048 %
Recovery Percentage 1	1.020 %				1.078 %	20.327 %			
Concentration RSD	27.8 %	71.8 %	2.4 %	5.3 %	13.4 %	6.9 %	1.0 %	3.8 %	2.9 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	105.781 %	0.221 ppb	0.037 ppb	101.562 %	105.806 %
Concentration per Run 1	101.521 %	0.238 ppb	0.039 ppb	101.975 %	100.942 %
Concentration per Run 2	107.511 %	0.223 ppb	0.036 ppb	100.512 %	107.350 %
Concentration per Run 3	108.312 %	0.201 ppb	0.036 ppb	102.199 %	109.127 %
Recovery Percentage 1		22.062 %	3.687 %		
Concentration RSD	3.5 %	8.4 %	4.6 %	0.9 %	4.1 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	17	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430038-02d10 6020TL	Rack	1		
Analysis started at:	6/10/2024 9:26:00 AM	Vial	1		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	93.977 %	100.912 %	0.004 ppb	6.661 ppb	9,827.444 ppb	872.435 ppb	5.425 ppb	367.376 ppb	4,258.413 ppb
Concentration per Run 1	94.887 %	103.086 %	0.003 ppb	6.587 ppb	9,796.425 ppb	895.153 ppb	6.386 ppb	369.326 ppb	4,361.648 ppb
Concentration per Run 2	94.542 %	96.564 %	0.006 ppb	6.610 ppb	10,049.558 ppb	881.834 ppb	4.477 ppb	360.027 ppb	4,061.709 ppb
Concentration per Run 3	92.502 %	103.086 %	0.002 ppb	6.788 ppb	9,636.350 ppb	840.320 ppb	5.413 ppb	372.775 ppb	4,351.882 ppb
Concentration RSD	1.4 %	3.7 %	47.8 %	1.7 %	2.1 %	3.3 %	17.6 %	1.8 %	4.0 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	110.846 %	117.781 %	0.006 ppb	0.140 ppb	0.237 ppb	2.684 ppb	0.002 ppb	0.109 ppb	0.219 ppb
Concentration per Run 1	110.111 %	117.927 %	0.007 ppb	0.163 ppb	0.242 ppb	1.673 ppb	0.006 ppb	0.116 ppb	0.174 ppb
Concentration per Run 2	110.142 %	119.031 %	0.003 ppb	0.134 ppb	0.228 ppb	1.365 ppb	-0.001 ppb	0.123 ppb	0.214 ppb
Concentration per Run 3	112.286 %	116.385 %	0.007 ppb	0.122 ppb	0.241 ppb	5.013 ppb	0.001 ppb	0.089 ppb	0.268 ppb
Concentration RSD	1.1 %	1.1 %	39.9 %	15.2 %	3.2 %	75.4 %	178.5 %	16.8 %	21.6 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.855 ppb	101.976 %	107.887 %	0.061 ppb	0.037 ppb	35.903 ppb	0.042 ppb	97.939 %	103.896 %
Concentration per Run 1	0.866 ppb	102.841 %	104.093 %	0.038 ppb	0.020 ppb	36.360 ppb	0.042 ppb	98.752 %	103.822 %
Concentration per Run 2	0.832 ppb	102.351 %	108.095 %	0.016 ppb	0.022 ppb	35.645 ppb	0.040 ppb	96.033 %	102.553 %
Concentration per Run 3	0.867 ppb	100.737 %	111.475 %	0.129 ppb	0.069 ppb	35.703 ppb	0.045 ppb	99.034 %	105.313 %
Concentration RSD	2.3 %	1.1 %	3.4 %	97.5 %	76.4 %	1.1 %	6.0 %	1.7 %	1.3 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.001 ppb	0.002 ppb	101.906 %	113.107 %	0.006 ppb	10.788 ppb	100.664 %	110.432 %	98.316 %
Concentration per Run 1	0.000 ppb	0.004 ppb	102.922 %	109.776 %	0.004 ppb	10.623 ppb	102.465 %	106.727 %	98.998 %
Concentration per Run 2	0.000 ppb	0.001 ppb	101.794 %	114.235 %	0.011 ppb	10.979 ppb	100.509 %	110.428 %	98.086 %
Concentration per Run 3	0.002 ppb	0.001 ppb	101.002 %	115.312 %	0.002 ppb	10.762 ppb	99.017 %	114.141 %	97.865 %
Concentration RSD	97.1 %	107.3 %	0.9 %	2.6 %	80.7 %	1.7 %	1.7 %	3.4 %	0.6 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	115.168 %	0.012 ppb	0.038 ppb	102.134 %	112.186 %
Concentration per Run 1	111.658 %	0.013 ppb	0.037 ppb	101.999 %	108.275 %
Concentration per Run 2	114.425 %	0.012 ppb	0.040 ppb	101.325 %	113.803 %
Concentration per Run 3	119.420 %	0.012 ppb	0.037 ppb	103.079 %	114.479 %
Concentration RSD	3.4 %	4.6 %	5.2 %	0.9 %	3.0 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	18	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430233-01d10 6020TL	Rack	1		
Analysis started at:	6/10/2024 9:30:40 AM	Vial	2		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	92.964 %	96.424 %	0.024 ppb	5.695 ppb	7,212.448 ppb	1,439.362 ppb	289.616 ppb	290.209 ppb	7,027.553 ppb
Concentration per Run 1	92.907 %	96.353 %	0.027 ppb	5.921 ppb	7,436.903 ppb	1,501.192 ppb	301.778 ppb	299.509 ppb	7,624.713 ppb
Concentration per Run 2	92.984 %	98.878 %	0.024 ppb	5.588 ppb	7,095.875 ppb	1,387.391 ppb	272.390 ppb	292.322 ppb	6,719.083 ppb
Concentration per Run 3	93.003 %	94.039 %	0.022 ppb	5.576 ppb	7,104.567 ppb	1,429.502 ppb	294.681 ppb	278.795 ppb	6,738.863 ppb
Concentration RSD	0.1 %	2.5 %	9.7 %	3.4 %	2.7 %	4.0 %	5.3 %	3.6 %	7.4 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	104.921 %	102.921 %	1.263 ppb	1.088 ppb	347.590 ppb	3,455.130 ppb	0.242 ppb	0.930 ppb	1.536 ppb
Concentration per Run 1	93.989 %	98.859 %	1.436 ppb	1.225 ppb	369.422 ppb	3,663.846 ppb	0.226 ppb	1.038 ppb	1.578 ppb
Concentration per Run 2	112.172 %	102.104 %	1.232 ppb	1.070 ppb	343.616 ppb	3,467.177 ppb	0.250 ppb	0.829 ppb	1.538 ppb
Concentration per Run 3	108.603 %	107.800 %	1.119 ppb	0.968 ppb	329.731 ppb	3,234.365 ppb	0.248 ppb	0.924 ppb	1.491 ppb
Concentration RSD	9.2 %	4.4 %	12.7 %	11.9 %	5.8 %	6.2 %	5.5 %	11.2 %	2.8 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	1.994 ppb	103.090 %	100.943 %	1.473 ppb	0.323 ppb	27.192 ppb	0.147 ppb	95.239 %	98.453 %
Concentration per Run 1	2.144 ppb	104.201 %	96.148 %	1.548 ppb	0.290 ppb	28.923 ppb	0.133 ppb	96.405 %	92.107 %
Concentration per Run 2	1.998 ppb	103.451 %	103.080 %	1.348 ppb	0.393 ppb	26.298 ppb	0.167 ppb	97.748 %	99.661 %
Concentration per Run 3	1.841 ppb	101.619 %	103.601 %	1.521 ppb	0.287 ppb	26.354 ppb	0.141 ppb	91.562 %	103.592 %
Concentration RSD	7.6 %	1.3 %	4.1 %	7.4 %	18.8 %	5.5 %	12.2 %	3.4 %	5.9 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.001 ppb	0.014 ppb	99.150 %	102.843 %	0.017 ppb	5.532 ppb	103.008 %	104.044 %	101.706 %
Concentration per Run 1	0.002 ppb	0.019 ppb	100.838 %	94.004 %	0.015 ppb	5.538 ppb	104.017 %	95.585 %	100.761 %
Concentration per Run 2	0.001 ppb	0.012 ppb	97.197 %	106.745 %	0.018 ppb	5.490 ppb	103.679 %	108.546 %	103.609 %
Concentration per Run 3	0.002 ppb	0.012 ppb	99.416 %	107.781 %	0.019 ppb	5.568 ppb	101.329 %	108.000 %	100.750 %
Concentration RSD	39.5 %	29.5 %	1.9 %	7.5 %	12.6 %	0.7 %	1.4 %	7.0 %	1.6 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.411 %	0.013 ppb	0.409 ppb	101.507 %	104.927 %
Concentration per Run 1	99.150 %	0.012 ppb	0.410 ppb	101.465 %	96.523 %
Concentration per Run 2	112.806 %	0.014 ppb	0.415 ppb	99.965 %	106.692 %
Concentration per Run 3	110.277 %	0.013 ppb	0.401 ppb	103.090 %	111.566 %
Concentration RSD	6.8 %	6.4 %	1.8 %	1.5 %	7.3 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	19	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430233-02d10 6020TL	Rack	1		
Analysis started at:	6/10/2024 9:35:20 AM	Vial	3		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	94.098 %	89.972 %	0.214 ppb	6.402 ppb	6,338.653 ppb	2,420.665 ppb	3,098.138 ppb	515.666 ppb	7,418.606 ppb
Concentration per Run 1	94.301 %	91.515 %	0.230 ppb	6.431 ppb	6,383.941 ppb	2,483.414 ppb	3,187.874 ppb	540.630 ppb	7,629.120 ppb
Concentration per Run 2	94.113 %	84.782 %	0.213 ppb	6.338 ppb	6,436.727 ppb	2,460.263 ppb	3,069.061 ppb	522.271 ppb	7,270.395 ppb
Concentration per Run 3	93.881 %	93.618 %	0.199 ppb	6.438 ppb	6,195.293 ppb	2,318.317 ppb	3,037.479 ppb	484.098 ppb	7,356.303 ppb
Concentration RSD	0.2 %	5.1 %	7.1 %	0.9 %	2.0 %	3.7 %	2.6 %	5.6 %	2.5 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	96.474 %	106.837 %	7.528 ppb	4.241 ppb	1,643.079 ppb	6,870.154 ppb	3.672 ppb	5.941 ppb	10.849 ppb
Concentration per Run 1	95.075 %	103.419 %	7.579 ppb	4.407 ppb	1,736.824 ppb	7,230.284 ppb	4.002 ppb	6.204 ppb	11.414 ppb
Concentration per Run 2	94.559 %	108.433 %	7.596 ppb	4.096 ppb	1,584.253 ppb	6,708.950 ppb	3.507 ppb	5.896 ppb	10.499 ppb
Concentration per Run 3	99.787 %	108.660 %	7.410 ppb	4.219 ppb	1,608.161 ppb	6,671.229 ppb	3.508 ppb	5.723 ppb	10.634 ppb
Concentration RSD	3.0 %	2.8 %	1.4 %	3.7 %	5.0 %	4.5 %	7.8 %	4.1 %	4.6 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	19.598 ppb	103.775 %	103.321 %	0.828 ppb	2.672 ppb	34.258 ppb	0.136 ppb	97.439 %	99.469 %
Concentration per Run 1	20.920 ppb	104.143 %	95.516 %	1.061 ppb	2.933 ppb	36.510 ppb	0.169 ppb	95.722 %	95.273 %
Concentration per Run 2	18.563 ppb	103.942 %	108.141 %	0.578 ppb	2.615 ppb	32.627 ppb	0.114 ppb	98.317 %	100.829 %
Concentration per Run 3	19.311 ppb	103.241 %	106.306 %	0.845 ppb	2.467 ppb	33.638 ppb	0.126 ppb	98.278 %	102.305 %
Concentration RSD	6.1 %	0.5 %	6.6 %	29.2 %	8.9 %	5.9 %	21.6 %	1.5 %	3.7 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.013 ppb	0.132 ppb	100.510 %	102.382 %	0.024 ppb	17.279 ppb	103.181 %	105.760 %	102.634 %
Concentration per Run 1	0.013 ppb	0.131 ppb	101.052 %	95.197 %	0.026 ppb	16.979 ppb	104.253 %	100.116 %	101.618 %
Concentration per Run 2	0.012 ppb	0.123 ppb	101.920 %	105.514 %	0.020 ppb	17.052 ppb	102.734 %	107.710 %	104.489 %
Concentration per Run 3	0.014 ppb	0.140 ppb	98.558 %	106.436 %	0.026 ppb	17.805 ppb	102.555 %	109.453 %	101.795 %
Concentration RSD	7.4 %	6.2 %	1.7 %	6.1 %	13.7 %	2.6 %	0.9 %	4.7 %	1.6 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.052 %	0.029 ppb	4.689 ppb	100.044 %	107.156 %
Concentration per Run 1	103.957 %	0.031 ppb	4.636 ppb	99.064 %	103.188 %
Concentration per Run 2	107.723 %	0.027 ppb	4.652 ppb	100.471 %	108.084 %
Concentration per Run 3	109.476 %	0.029 ppb	4.781 ppb	100.598 %	110.195 %
Concentration RSD	2.6 %	6.5 %	1.7 %	0.9 %	3.4 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	20	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430233-03d10 6020TL	Rack	1		
Analysis started at:	6/10/2024 9:40:01 AM	Vial	4		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	91.896 %	95.863 %	0.013 ppb	4.055 ppb	12,103.879 ppb	436.092 ppb	119.952 ppb	604.304 ppb	3,239.574 ppb
Concentration per Run 1	92.159 %	96.985 %	0.016 ppb	4.109 ppb	12,052.096 ppb	438.249 ppb	126.933 ppb	622.430 ppb	3,194.461 ppb
Concentration per Run 2	91.805 %	101.823 %	0.008 ppb	4.038 ppb	11,716.063 ppb	417.593 ppb	112.467 ppb	583.218 ppb	3,292.402 ppb
Concentration per Run 3	91.724 %	88.780 %	0.016 ppb	4.017 ppb	12,543.476 ppb	452.434 ppb	120.457 ppb	607.262 ppb	3,231.860 ppb
Concentration RSD	0.3 %	6.9 %	36.3 %	1.2 %	3.4 %	4.0 %	6.0 %	3.3 %	1.5 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	92.908 %	105.252 %	0.506 ppb	0.378 ppb	44.237 ppb	2,460.691 ppb	0.170 ppb	0.491 ppb	0.962 ppb
Concentration per Run 1	90.785 %	106.437 %	0.438 ppb	0.359 ppb	44.023 ppb	2,537.266 ppb	0.177 ppb	0.480 ppb	0.991 ppb
Concentration per Run 2	94.574 %	102.623 %	0.511 ppb	0.391 ppb	45.206 ppb	2,427.534 ppb	0.177 ppb	0.501 ppb	0.973 ppb
Concentration per Run 3	93.365 %	106.697 %	0.570 ppb	0.384 ppb	43.482 ppb	2,417.274 ppb	0.156 ppb	0.491 ppb	0.922 ppb
Concentration RSD	2.1 %	2.2 %	13.1 %	4.5 %	2.0 %	2.7 %	7.2 %	2.1 %	3.7 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	3.780 ppb	103.260 %	102.193 %	0.262 ppb	0.113 ppb	21.246 ppb	0.456 ppb	97.031 %	101.530 %
Concentration per Run 1	3.819 ppb	102.699 %	101.288 %	0.387 ppb	0.151 ppb	21.107 ppb	0.455 ppb	100.475 %	99.294 %
Concentration per Run 2	3.664 ppb	103.099 %	103.149 %	0.181 ppb	0.070 ppb	21.503 ppb	0.404 ppb	93.507 %	100.949 %
Concentration per Run 3	3.856 ppb	103.982 %	102.141 %	0.219 ppb	0.119 ppb	21.129 ppb	0.511 ppb	97.111 %	104.348 %
Concentration RSD	2.7 %	0.6 %	0.9 %	41.8 %	36.2 %	1.0 %	11.7 %	3.6 %	2.5 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.002 ppb	0.015 ppb	98.320 %	103.659 %	0.032 ppb	3.499 ppb	100.500 %	106.122 %	99.528 %
Concentration per Run 1	0.004 ppb	0.019 ppb	97.597 %	102.008 %	0.031 ppb	3.483 ppb	101.430 %	106.056 %	97.738 %
Concentration per Run 2	0.001 ppb	0.013 ppb	97.719 %	105.353 %	0.031 ppb	3.512 ppb	100.479 %	105.961 %	100.440 %
Concentration per Run 3	0.002 ppb	0.013 ppb	99.645 %	103.616 %	0.036 ppb	3.503 ppb	99.590 %	106.348 %	100.407 %
Concentration RSD	61.3 %	21.9 %	1.2 %	1.6 %	8.6 %	0.4 %	0.9 %	0.2 %	1.6 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	108.133 %	0.008 ppb	0.505 ppb	100.108 %	107.199 %
Concentration per Run 1	106.039 %	0.008 ppb	0.507 ppb	99.566 %	106.700 %
Concentration per Run 2	109.317 %	0.009 ppb	0.500 ppb	100.380 %	109.078 %
Concentration per Run 3	109.044 %	0.007 ppb	0.508 ppb	100.379 %	105.818 %
Concentration RSD	1.7 %	10.7 %	0.9 %	0.5 %	1.6 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	21	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430233-04d10 6020TL	Rack	1		
Analysis started at:	6/10/2024 9:44:42 AM	Vial	5		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	92.175 %	91.935 %	0.058 ppb	5.699 ppb	6,698.094 ppb	1,231.762 ppb	350.372 ppb	308.764 ppb	5,968.368 ppb
Concentration per Run 1	92.557 %	92.777 %	0.050 ppb	5.672 ppb	6,902.952 ppb	1,233.834 ppb	339.537 ppb	323.035 ppb	6,140.878 ppb
Concentration per Run 2	92.338 %	89.832 %	0.064 ppb	5.673 ppb	6,715.057 ppb	1,237.835 ppb	348.161 ppb	294.852 ppb	5,909.782 ppb
Concentration per Run 3	91.630 %	93.198 %	0.060 ppb	5.751 ppb	6,476.273 ppb	1,223.618 ppb	363.419 ppb	308.404 ppb	5,854.445 ppb
Concentration RSD	0.5 %	2.0 %	12.6 %	0.8 %	3.2 %	0.6 %	3.5 %	4.6 %	2.5 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	107.704 %	100.335 %	0.762 ppb	0.617 ppb	286.490 ppb	4,483.253 ppb	0.259 ppb	0.492 ppb	0.603 ppb
Concentration per Run 1	107.996 %	97.090 %	0.826 ppb	0.677 ppb	302.326 ppb	4,825.469 ppb	0.279 ppb	0.570 ppb	0.602 ppb
Concentration per Run 2	108.467 %	102.575 %	0.703 ppb	0.562 ppb	274.955 ppb	4,232.409 ppb	0.244 ppb	0.439 ppb	0.598 ppb
Concentration per Run 3	106.649 %	101.341 %	0.757 ppb	0.611 ppb	282.187 ppb	4,391.882 ppb	0.254 ppb	0.468 ppb	0.608 ppb
Concentration RSD	0.9 %	2.9 %	8.1 %	9.3 %	5.0 %	6.8 %	6.9 %	13.9 %	0.8 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	2.039 ppb	101.579 %	101.066 %	0.705 ppb	1.156 ppb	20.934 ppb	0.127 ppb	96.591 %	97.741 %
Concentration per Run 1	2.112 ppb	100.752 %	98.704 %	0.784 ppb	1.406 ppb	21.649 ppb	0.134 ppb	96.115 %	94.156 %
Concentration per Run 2	1.916 ppb	101.971 %	101.532 %	0.608 ppb	1.096 ppb	20.423 ppb	0.110 ppb	95.996 %	100.033 %
Concentration per Run 3	2.090 ppb	102.013 %	102.962 %	0.722 ppb	0.967 ppb	20.730 ppb	0.137 ppb	97.660 %	99.033 %
Concentration RSD	5.3 %	0.7 %	2.1 %	12.7 %	19.5 %	3.0 %	11.8 %	1.0 %	3.2 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.023 ppb	99.996 %	100.997 %	0.014 ppb	8.901 ppb	99.904 %	104.386 %	99.652 %
Concentration per Run 1	0.000 ppb	0.027 ppb	100.082 %	95.239 %	0.014 ppb	8.798 ppb	99.026 %	99.453 %	99.493 %
Concentration per Run 2	0.000 ppb	0.023 ppb	101.561 %	103.493 %	0.019 ppb	8.833 ppb	100.726 %	105.568 %	100.982 %
Concentration per Run 3	0.001 ppb	0.019 ppb	98.346 %	104.259 %	0.010 ppb	9.072 ppb	99.962 %	108.139 %	98.481 %
Concentration RSD	77.5 %	18.3 %	1.6 %	5.0 %	32.4 %	1.7 %	0.9 %	4.3 %	1.3 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	105.632 %	0.006 ppb	0.173 ppb	100.228 %	104.335 %
Concentration per Run 1	102.743 %	0.005 ppb	0.168 ppb	100.355 %	100.331 %
Concentration per Run 2	105.939 %	0.007 ppb	0.174 ppb	100.710 %	104.307 %
Concentration per Run 3	108.213 %	0.006 ppb	0.177 ppb	99.619 %	108.368 %
Concentration RSD	2.6 %	11.3 %	2.7 %	0.6 %	3.9 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	22	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430233-05d10 6020TL	Rack	1		
Analysis started at:	6/10/2024 9:49:23 AM	Vial	6		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.941 %	88.639 %	0.022 ppb	4.249 ppb	18,266.644 ppb	556.837 ppb	246.304 ppb	210.731 ppb	3,027.019 ppb
Concentration per Run 1	89.948 %	88.780 %	0.019 ppb	4.248 ppb	18,784.818 ppb	572.873 ppb	257.989 ppb	218.283 ppb	3,098.433 ppb
Concentration per Run 2	90.242 %	87.097 %	0.022 ppb	4.279 ppb	18,385.933 ppb	550.621 ppb	243.040 ppb	209.102 ppb	2,880.665 ppb
Concentration per Run 3	89.634 %	90.042 %	0.025 ppb	4.221 ppb	17,629.182 ppb	547.018 ppb	237.883 ppb	204.807 ppb	3,101.960 ppb
Concentration RSD	0.3 %	1.7 %	13.9 %	0.7 %	3.2 %	2.5 %	4.2 %	3.3 %	4.2 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	102.586 %	98.897 %	1.714 ppb	3.154 ppb	353.492 ppb	2,095.065 ppb	0.340 ppb	1.727 ppb	0.889 ppb
Concentration per Run 1	106.048 %	96.798 %	1.752 ppb	3.237 ppb	367.155 ppb	2,166.259 ppb	0.337 ppb	1.789 ppb	0.929 ppb
Concentration per Run 2	92.842 %	99.492 %	1.720 ppb	3.024 ppb	348.738 ppb	2,082.580 ppb	0.355 ppb	1.730 ppb	0.844 ppb
Concentration per Run 3	108.868 %	100.400 %	1.670 ppb	3.203 ppb	344.584 ppb	2,036.357 ppb	0.329 ppb	1.662 ppb	0.893 ppb
Concentration RSD	8.3 %	1.9 %	2.4 %	3.6 %	3.4 %	3.1 %	4.0 %	3.7 %	4.8 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	1.691 ppb	103.626 %	98.135 %	0.356 ppb	0.370 ppb	14.451 ppb	0.425 ppb	95.743 %	95.481 %
Concentration per Run 1	1.771 ppb	101.660 %	95.446 %	0.427 ppb	0.533 ppb	15.206 ppb	0.464 ppb	96.853 %	90.402 %
Concentration per Run 2	1.653 ppb	105.542 %	98.367 %	0.410 ppb	0.314 ppb	14.102 ppb	0.402 ppb	94.580 %	98.196 %
Concentration per Run 3	1.648 ppb	103.675 %	100.592 %	0.231 ppb	0.263 ppb	14.045 ppb	0.409 ppb	95.795 %	97.846 %
Concentration RSD	4.1 %	1.9 %	2.6 %	30.4 %	38.8 %	4.5 %	8.0 %	1.2 %	4.6 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.002 ppb	0.052 ppb	97.742 %	99.062 %	0.066 ppb	14.523 ppb	98.170 %	102.370 %	99.664 %
Concentration per Run 1	0.005 ppb	0.056 ppb	97.539 %	92.501 %	0.067 ppb	14.335 ppb	99.729 %	95.886 %	96.966 %
Concentration per Run 2	0.000 ppb	0.044 ppb	97.061 %	102.040 %	0.058 ppb	14.657 ppb	97.796 %	105.917 %	102.092 %
Concentration per Run 3	0.000 ppb	0.056 ppb	98.626 %	102.645 %	0.072 ppb	14.577 ppb	96.984 %	105.308 %	99.935 %
Concentration RSD	140.2 %	14.0 %	0.8 %	5.7 %	10.4 %	1.2 %	1.4 %	5.5 %	2.6 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	105.645 %	0.011 ppb	0.445 ppb	98.563 %	102.045 %
Concentration per Run 1	98.653 %	0.011 ppb	0.439 ppb	97.897 %	96.894 %
Concentration per Run 2	110.271 %	0.011 ppb	0.445 ppb	98.331 %	103.098 %
Concentration per Run 3	108.013 %	0.009 ppb	0.450 ppb	99.462 %	106.144 %
Concentration RSD	5.8 %	10.2 %	1.2 %	0.8 %	4.6 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	23	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430233-06d10 6020TL	Rack	1		
Analysis started at:	6/10/2024 9:54:05 AM	Vial	7		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	90.291 %	92.707 %	0.011 ppb	6.841 ppb	8,218.967 ppb	1,458.459 ppb	113.482 ppb	301.183 ppb	7,460.712 ppb
Concentration per Run 1	89.818 %	88.149 %	0.008 ppb	6.864 ppb	8,624.809 ppb	1,480.595 ppb	113.624 ppb	307.568 ppb	7,487.311 ppb
Concentration per Run 2	90.437 %	100.351 %	0.015 ppb	6.917 ppb	7,842.612 ppb	1,443.292 ppb	113.472 ppb	297.939 ppb	7,526.921 ppb
Concentration per Run 3	90.618 %	89.621 %	0.011 ppb	6.741 ppb	8,189.481 ppb	1,451.491 ppb	113.351 ppb	298.042 ppb	7,367.902 ppb
Concentration RSD	0.5 %	7.2 %	30.9 %	1.3 %	4.8 %	1.3 %	0.1 %	1.8 %	1.1 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	107.753 %	98.188 %	0.268 ppb	0.547 ppb	401.189 ppb	1,068.184 ppb	0.180 ppb	0.441 ppb	0.867 ppb
Concentration per Run 1	108.790 %	96.587 %	0.313 ppb	0.603 ppb	416.841 ppb	1,129.329 ppb	0.186 ppb	0.492 ppb	0.869 ppb
Concentration per Run 2	105.332 %	99.800 %	0.245 ppb	0.547 ppb	391.025 ppb	1,045.556 ppb	0.151 ppb	0.429 ppb	0.849 ppb
Concentration per Run 3	109.137 %	98.177 %	0.245 ppb	0.491 ppb	395.700 ppb	1,029.668 ppb	0.203 ppb	0.403 ppb	0.883 ppb
Concentration RSD	2.0 %	1.6 %	14.7 %	10.2 %	3.4 %	5.0 %	14.7 %	10.4 %	2.0 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	1.283 ppb	102.154 %	100.738 %	1.257 ppb	0.096 ppb	27.247 ppb	0.347 ppb	94.955 %	97.582 %
Concentration per Run 1	1.303 ppb	102.880 %	95.806 %	1.341 ppb	0.092 ppb	28.362 ppb	0.398 ppb	95.056 %	93.417 %
Concentration per Run 2	1.266 ppb	102.523 %	103.649 %	1.223 ppb	0.051 ppb	25.982 ppb	0.335 ppb	93.881 %	100.261 %
Concentration per Run 3	1.280 ppb	101.060 %	102.758 %	1.206 ppb	0.145 ppb	27.398 ppb	0.308 ppb	95.929 %	99.069 %
Concentration RSD	1.5 %	0.9 %	4.3 %	5.9 %	48.8 %	4.4 %	13.4 %	1.1 %	3.7 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.002 ppb	0.009 ppb	99.076 %	101.171 %	0.019 ppb	7.252 ppb	97.915 %	102.689 %	98.571 %
Concentration per Run 1	0.001 ppb	0.010 ppb	98.162 %	99.729 %	0.018 ppb	7.333 ppb	99.741 %	101.436 %	99.577 %
Concentration per Run 2	0.003 ppb	0.010 ppb	99.513 %	101.247 %	0.021 ppb	7.268 ppb	96.332 %	103.737 %	97.437 %
Concentration per Run 3	0.001 ppb	0.008 ppb	99.553 %	102.538 %	0.019 ppb	7.153 ppb	97.672 %	102.894 %	98.698 %
Concentration RSD	68.7 %	11.8 %	0.8 %	1.4 %	8.0 %	1.3 %	1.8 %	1.1 %	1.1 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.026 %	0.005 ppb	0.118 ppb	99.814 %	103.305 %
Concentration per Run 1	100.104 %	0.005 ppb	0.115 ppb	100.668 %	97.072 %
Concentration per Run 2	110.345 %	0.005 ppb	0.118 ppb	98.387 %	105.004 %
Concentration per Run 3	110.628 %	0.005 ppb	0.120 ppb	100.388 %	107.838 %
Concentration RSD	5.6 %	9.7 %	1.9 %	1.2 %	5.4 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	24	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430233-07d10 6020TL	Rack	1		
Analysis started at:	6/10/2024 9:58:47 AM	Vial	8		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	91.175 %	91.094 %	0.020 ppb	5.281 ppb	7,071.432 ppb	1,441.380 ppb	298.115 ppb	257.862 ppb	6,394.898 ppb
Concentration per Run 1	92.051 %	86.676 %	0.023 ppb	5.234 ppb	7,598.912 ppb	1,511.676 ppb	314.598 ppb	272.614 ppb	6,624.515 ppb
Concentration per Run 2	90.759 %	87.307 %	0.019 ppb	5.273 ppb	7,057.720 ppb	1,483.913 ppb	292.524 ppb	254.438 ppb	6,132.550 ppb
Concentration per Run 3	90.716 %	99.299 %	0.018 ppb	5.338 ppb	6,557.663 ppb	1,328.551 ppb	287.225 ppb	246.535 ppb	6,427.630 ppb
Concentration RSD	0.8 %	7.8 %	12.8 %	1.0 %	7.4 %	6.8 %	4.9 %	5.2 %	3.9 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	98.934 %	96.895 %	0.562 ppb	0.737 ppb	70.376 ppb	649.235 ppb	0.331 ppb	0.839 ppb	1.072 ppb
Concentration per Run 1	87.931 %	93.552 %	0.565 ppb	0.796 ppb	74.602 ppb	707.147 ppb	0.335 ppb	0.924 ppb	1.113 ppb
Concentration per Run 2	103.840 %	98.567 %	0.557 ppb	0.696 ppb	68.088 ppb	633.798 ppb	0.303 ppb	0.864 ppb	1.007 ppb
Concentration per Run 3	105.030 %	98.567 %	0.563 ppb	0.719 ppb	68.439 ppb	606.761 ppb	0.355 ppb	0.730 ppb	1.097 ppb
Concentration RSD	9.7 %	3.0 %	0.7 %	7.1 %	5.2 %	8.0 %	7.8 %	11.9 %	5.4 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	1.834 ppb	101.421 %	99.509 %	0.262 ppb	0.178 ppb	15.375 ppb	0.445 ppb	96.573 %	97.174 %
Concentration per Run 1	1.992 ppb	101.275 %	93.099 %	0.246 ppb	0.126 ppb	16.332 ppb	0.453 ppb	97.796 %	91.601 %
Concentration per Run 2	1.650 ppb	101.256 %	103.260 %	0.310 ppb	0.173 ppb	14.688 ppb	0.400 ppb	96.013 %	101.391 %
Concentration per Run 3	1.861 ppb	101.733 %	102.169 %	0.228 ppb	0.235 ppb	15.106 ppb	0.481 ppb	95.909 %	98.530 %
Concentration RSD	9.4 %	0.3 %	5.6 %	16.5 %	30.8 %	5.6 %	9.3 %	1.1 %	5.2 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.001 ppb	0.004 ppb	99.529 %	99.585 %	0.029 ppb	4.403 ppb	99.076 %	102.072 %	97.943 %
Concentration per Run 1	0.002 ppb	0.003 ppb	101.452 %	92.582 %	0.031 ppb	4.831 ppb	97.639 %	95.939 %	98.216 %
Concentration per Run 2	0.001 ppb	0.005 ppb	101.129 %	101.966 %	0.030 ppb	4.186 ppb	99.194 %	104.776 %	96.741 %
Concentration per Run 3	0.001 ppb	0.004 ppb	96.008 %	104.208 %	0.027 ppb	4.192 ppb	100.396 %	105.500 %	98.871 %
Concentration RSD	21.2 %	22.6 %	3.1 %	6.2 %	6.7 %	8.4 %	1.4 %	5.2 %	1.1 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	104.328 %	0.007 ppb	0.547 ppb	100.327 %	102.787 %
Concentration per Run 1	98.364 %	0.010 ppb	1.023 ppb	99.281 %	96.729 %
Concentration per Run 2	106.282 %	0.005 ppb	0.322 ppb	99.379 %	104.923 %
Concentration per Run 3	108.339 %	0.007 ppb	0.296 ppb	102.321 %	106.708 %
Concentration RSD	5.0 %	36.8 %	75.4 %	1.7 %	5.2 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	25	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430233-03d100 6020TL	Rack	1		
Analysis started at:	6/10/2024 10:23:24 AM	Vial	9		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	93.574 %	92.146 %	0.002 ppb	0.413 ppb	1,299.529 ppb	46.772 ppb	11.939 ppb	59.031 ppb	356.058 ppb
Concentration per Run 1	94.551 %	93.408 %	0.001 ppb	0.422 ppb	1,332.298 ppb	48.976 ppb	12.224 ppb	70.101 ppb	377.928 ppb
Concentration per Run 2	94.023 %	86.886 %	0.004 ppb	0.402 ppb	1,321.801 ppb	49.618 ppb	12.148 ppb	48.544 ppb	360.364 ppb
Concentration per Run 3	92.148 %	96.143 %	0.001 ppb	0.414 ppb	1,244.488 ppb	41.722 ppb	11.445 ppb	58.449 ppb	329.881 ppb
Concentration RSD	1.3 %	5.2 %	65.7 %	2.4 %	3.7 %	9.4 %	3.6 %	18.3 %	6.8 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	97.284 %	109.337 %	0.050 ppb	0.028 ppb	4.627 ppb	245.067 ppb	0.020 ppb	0.057 ppb	0.112 ppb
Concentration per Run 1	91.607 %	107.768 %	0.046 ppb	0.033 ppb	4.882 ppb	262.335 ppb	0.021 ppb	0.087 ppb	0.089 ppb
Concentration per Run 2	93.793 %	109.585 %	0.063 ppb	0.030 ppb	4.505 ppb	241.285 ppb	0.018 ppb	0.021 ppb	0.099 ppb
Concentration per Run 3	106.451 %	110.657 %	0.043 ppb	0.019 ppb	4.493 ppb	231.582 ppb	0.021 ppb	0.062 ppb	0.146 ppb
Concentration RSD	8.2 %	1.3 %	20.9 %	27.3 %	4.8 %	6.4 %	8.3 %	58.4 %	27.2 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.520 ppb	100.266 %	107.988 %	0.058 ppb	0.018 ppb	2.095 ppb	0.060 ppb	102.020 %	102.830 %
Concentration per Run 1	0.555 ppb	99.767 %	103.688 %	0.025 ppb	-0.007 ppb	2.283 ppb	0.073 ppb	100.945 %	97.116 %
Concentration per Run 2	0.505 ppb	99.966 %	110.472 %	0.046 ppb	0.041 ppb	2.059 ppb	0.063 ppb	101.915 %	106.612 %
Concentration per Run 3	0.501 ppb	101.065 %	109.804 %	0.103 ppb	0.021 ppb	1.944 ppb	0.045 ppb	103.199 %	104.761 %
Concentration RSD	5.7 %	0.7 %	3.5 %	70.3 %	133.3 %	8.2 %	23.7 %	1.1 %	4.9 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	-0.001 ppb	0.001 ppb	102.474 %	108.823 %	0.011 ppb	0.354 ppb	102.241 %	106.845 %	103.394 %
Concentration per Run 1	0.000 ppb	0.002 ppb	102.686 %	104.169 %	0.016 ppb	0.345 ppb	102.784 %	101.052 %	102.748 %
Concentration per Run 2	0.000 ppb	0.003 ppb	101.708 %	110.539 %	0.008 ppb	0.352 ppb	101.122 %	111.422 %	102.443 %
Concentration per Run 3	-0.001 ppb	0.000 ppb	103.028 %	111.761 %	0.008 ppb	0.365 ppb	102.817 %	108.059 %	104.992 %
Concentration RSD	96.6 %	113.6 %	0.7 %	3.7 %	47.0 %	3.0 %	0.9 %	5.0 %	1.3 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	112.469 %	0.002 ppb	0.052 ppb	105.254 %	110.248 %
Concentration per Run 1	104.938 %	0.002 ppb	0.053 ppb	106.002 %	106.096 %
Concentration per Run 2	117.907 %	0.002 ppb	0.052 ppb	106.899 %	111.262 %
Concentration per Run 3	114.564 %	0.002 ppb	0.052 ppb	102.860 %	113.385 %
Concentration RSD	6.0 %	20.0 %	0.7 %	2.0 %	3.4 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	26	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430233-05d100 6020TL	Rack	1		
Analysis started at:	6/10/2024 10:28:06 AM	Vial	10		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	92.478 %	92.146 %	0.000 ppb	0.420 ppb	2,109.514 ppb	59.992 ppb	21.346 ppb	12.129 ppb	323.860 ppb
Concentration per Run 1	92.689 %	86.886 %	-0.001 ppb	0.408 ppb	2,250.419 ppb	61.135 ppb	22.093 ppb	10.506 ppb	293.987 ppb
Concentration per Run 2	92.469 %	94.039 %	0.001 ppb	0.437 ppb	2,055.999 ppb	60.354 ppb	21.037 ppb	16.223 ppb	339.371 ppb
Concentration per Run 3	92.277 %	95.512 %	0.000 ppb	0.415 ppb	2,022.123 ppb	58.488 ppb	20.909 ppb	9.659 ppb	338.223 ppb
Concentration RSD	0.2 %	5.0 %	723.1 %	3.6 %	5.8 %	2.3 %	3.0 %	29.4 %	8.0 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	99.575 %	96.019 %	0.189 ppb	0.325 ppb	36.737 ppb	217.712 ppb	0.037 ppb	0.223 ppb	0.131 ppb
Concentration per Run 1	104.740 %	93.293 %	0.223 ppb	0.371 ppb	38.451 ppb	234.594 ppb	0.039 ppb	0.274 ppb	0.108 ppb
Concentration per Run 2	88.421 %	94.558 %	0.161 ppb	0.323 ppb	37.117 ppb	206.021 ppb	0.031 ppb	0.230 ppb	0.124 ppb
Concentration per Run 3	105.563 %	100.206 %	0.182 ppb	0.280 ppb	34.644 ppb	212.521 ppb	0.041 ppb	0.164 ppb	0.161 ppb
Concentration RSD	9.7 %	3.8 %	16.9 %	14.1 %	5.3 %	6.9 %	13.0 %	24.7 %	20.6 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.320 ppb	101.030 %	98.382 %	0.045 ppb	0.069 ppb	1.397 ppb	0.044 ppb	101.204 %	98.276 %
Concentration per Run 1	0.318 ppb	101.457 %	92.272 %	-0.002 ppb	0.100 ppb	1.518 ppb	0.038 ppb	103.741 %	92.110 %
Concentration per Run 2	0.301 ppb	101.002 %	97.856 %	0.031 ppb	0.057 ppb	1.418 ppb	0.046 ppb	99.270 %	101.200 %
Concentration per Run 3	0.342 ppb	100.630 %	105.017 %	0.107 ppb	0.048 ppb	1.255 ppb	0.047 ppb	100.600 %	101.519 %
Concentration RSD	6.3 %	0.4 %	6.5 %	124.3 %	40.5 %	9.5 %	10.8 %	2.3 %	5.4 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.001 ppb	0.007 ppb	101.183 %	100.786 %	0.013 ppb	1.435 ppb	99.234 %	99.843 %	98.930 %
Concentration per Run 1	0.001 ppb	0.012 ppb	100.486 %	93.010 %	0.014 ppb	1.433 ppb	98.561 %	93.065 %	99.741 %
Concentration per Run 2	0.000 ppb	0.003 ppb	100.801 %	102.259 %	0.011 ppb	1.435 ppb	100.072 %	102.784 %	97.821 %
Concentration per Run 3	0.001 ppb	0.007 ppb	102.264 %	107.089 %	0.013 ppb	1.437 ppb	99.068 %	103.681 %	99.227 %
Concentration RSD	78.2 %	65.6 %	0.9 %	7.1 %	12.8 %	0.2 %	0.8 %	5.9 %	1.0 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	104.938 %	0.001 ppb	0.048 ppb	104.278 %	101.972 %
Concentration per Run 1	95.715 %	0.002 ppb	0.048 ppb	104.697 %	95.541 %
Concentration per Run 2	107.601 %	0.001 ppb	0.049 ppb	102.544 %	104.743 %
Concentration per Run 3	111.499 %	0.001 ppb	0.047 ppb	105.594 %	105.633 %
Concentration RSD	7.8 %	29.0 %	2.2 %	1.5 %	5.5 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 27 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: CCV Rack 0
Analysis started at: 6/10/2024 10:32:49 AM Vial 9

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.562 %	80.996 %	60.275 ppb	59.609 ppb	6,443.568 ppb	6,386.836 ppb	65.877 ppb	6,184.904 ppb	6,376.975 ppb
Concentration per Run 1	90.219 %	80.785 %	59.709 ppb	58.945 ppb	6,652.706 ppb	6,569.329 ppb	65.883 ppb	6,391.001 ppb	6,946.764 ppb
Concentration per Run 2	88.940 %	76.367 %	59.315 ppb	59.448 ppb	6,569.025 ppb	6,633.242 ppb	70.414 ppb	6,212.879 ppb	6,328.651 ppb
Concentration per Run 3	89.526 %	85.834 %	61.801 ppb	60.435 ppb	6,108.974 ppb	5,957.938 ppb	61.334 ppb	5,950.832 ppb	5,855.509 ppb
Recovery Percentage 1			100.459 %	99.349 %	107.393 %	106.447 %	109.795 %	103.082 %	106.283 %
Concentration RSD	0.7 %	5.8 %	2.2 %	1.3 %	4.5 %	5.8 %	6.9 %	3.6 %	8.6 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	103.869 %	101.406 %	63.799 ppb	64.132 ppb	62.435 ppb	6,336.075 ppb	62.903 ppb	64.140 ppb	61.698 ppb
Concentration per Run 1	110.540 %	98.940 %	68.180 ppb	66.505 ppb	65.396 ppb	6,637.437 ppb	66.765 ppb	68.434 ppb	64.482 ppb
Concentration per Run 2	110.860 %	100.627 %	63.504 ppb	64.388 ppb	62.222 ppb	6,162.419 ppb	61.551 ppb	63.128 ppb	60.829 ppb
Concentration per Run 3	90.207 %	104.652 %	59.712 ppb	61.503 ppb	59.686 ppb	6,208.368 ppb	60.393 ppb	60.858 ppb	59.785 ppb
Recovery Percentage 1			106.331 %	106.887 %	104.058 %	105.601 %	104.838 %	106.900 %	102.831 %
Concentration RSD	11.4 %	2.9 %	6.6 %	3.9 %	4.6 %	4.1 %	5.4 %	6.1 %	4.0 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	61.915 ppb	100.725 %	98.054 %	60.165 ppb	61.833 ppb	60.294 ppb	60.088 ppb	98.393 %	94.943 %
Concentration per Run 1	65.818 ppb	101.305 %	92.785 %	64.874 ppb	66.447 ppb	62.929 ppb	63.522 ppb	100.968 %	88.912 %
Concentration per Run 2	60.521 ppb	101.425 %	98.550 %	58.623 ppb	61.014 ppb	59.510 ppb	60.548 ppb	98.062 %	97.453 %
Concentration per Run 3	59.407 ppb	99.445 %	102.829 %	56.999 ppb	58.040 ppb	58.445 ppb	56.194 ppb	96.150 %	98.464 %
Recovery Percentage 1	103.192 %			100.276 %	103.056 %	100.491 %	100.147 %		
Concentration RSD	5.5 %	1.1 %	5.1 %	6.9 %	6.9 %	3.9 %	6.1 %	2.5 %	5.5 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	62.335 ppb	62.419 ppb	97.034 %	98.112 %	61.734 ppb	61.027 ppb	100.640 %	100.781 %	99.394 %
Concentration per Run 1	67.474 ppb	67.246 ppb	96.599 %	91.581 %	66.654 ppb	61.867 ppb	99.354 %	93.211 %	98.847 %
Concentration per Run 2	60.410 ppb	60.982 ppb	96.442 %	99.407 %	60.903 ppb	61.718 ppb	99.391 %	101.920 %	99.402 %
Concentration per Run 3	59.120 ppb	59.030 ppb	98.060 %	103.348 %	57.643 ppb	59.495 ppb	103.174 %	107.211 %	99.931 %
Recovery Percentage 1	103.891 %	104.032 %			102.889 %	101.711 %			
Concentration RSD	7.2 %	6.9 %	0.9 %	6.1 %	7.4 %	2.2 %	2.2 %	7.0 %	0.5 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	103.764 %	59.833 ppb	62.319 ppb	99.786 %	100.793 %
Concentration per Run 1	95.434 %	59.037 ppb	61.208 ppb	101.492 %	95.495 %
Concentration per Run 2	106.036 %	60.918 ppb	63.763 ppb	98.076 %	101.435 %
Concentration per Run 3	109.822 %	59.545 ppb	61.986 ppb	99.791 %	105.449 %
Recovery Percentage 1		99.722 %	103.865 %		
Concentration RSD	7.2 %	1.6 %	2.1 %	1.7 %	5.0 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 28
Analysis label: CCB
Analysis started at: 6/10/2024 10:37:34 AM
User name ALPHALAB\ICPMSRQ
Rack 0
Vial 10
Comment <Comment>

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	91.230 %	93.689 %	0.019 ppb	0.389 ppb	-6.829 ppb	-0.922 ppb	-0.615 ppb	-13.769 ppb	8.443 ppb
Concentration per Run 1	92.208 %	90.042 %	0.024 ppb	0.383 ppb	-5.807 ppb	-0.617 ppb	0.851 ppb	-11.166 ppb	7.795 ppb
Concentration per Run 2	90.258 %	93.618 %	0.018 ppb	0.397 ppb	-6.906 ppb	-1.143 ppb	-1.335 ppb	-15.693 ppb	3.623 ppb
Concentration per Run 3	91.225 %	97.405 %	0.015 ppb	0.388 ppb	-7.774 ppb	-1.006 ppb	-1.359 ppb	-14.447 ppb	13.911 ppb
Recovery Percentage 1			3.799 %	3.893 %	-6.829 %	-1.317 %	-6.145 %	-13.769 %	8.443 %
Concentration RSD	1.1 %	3.9 %	22.5 %	1.9 %	14.4 %	29.6 %	206.5 %	17.0 %	61.3 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	98.704 %	96.387 %	-0.009 ppb	0.011 ppb	0.005 ppb	1.827 ppb	0.000 ppb	0.009 ppb	-0.008 ppb
Concentration per Run 1	102.676 %	92.352 %	-0.022 ppb	0.020 ppb	0.022 ppb	2.020 ppb	0.001 ppb	-0.002 ppb	-0.009 ppb
Concentration per Run 2	88.552 %	98.664 %	-0.006 ppb	0.009 ppb	-0.006 ppb	2.262 ppb	0.000 ppb	0.011 ppb	-0.009 ppb
Concentration per Run 3	104.885 %	98.145 %	0.002 ppb	0.005 ppb	-0.001 ppb	1.200 ppb	-0.001 ppb	0.018 ppb	-0.007 ppb
Recovery Percentage 1			-0.180 %	1.135 %	0.506 %	3.654 %	0.015 %	0.457 %	-0.805 %
Concentration RSD	9.0 %	3.6 %	138.2 %	69.7 %	296.8 %	30.5 %	1,034.0 %	111.8 %	13.5 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	-0.040 ppb	99.101 %	97.809 %	0.057 ppb	0.117 ppb	-0.002 ppb	0.191 ppb	100.077 %	99.795 %
Concentration per Run 1	-0.022 ppb	100.717 %	93.596 %	0.096 ppb	-0.015 ppb	0.007 ppb	0.144 ppb	99.472 %	95.739 %
Concentration per Run 2	-0.034 ppb	98.165 %	99.297 %	-0.003 ppb	0.315 ppb	-0.011 ppb	0.216 ppb	99.105 %	102.352 %
Concentration per Run 3	-0.064 ppb	98.422 %	100.533 %	0.077 ppb	0.051 ppb	-0.003 ppb	0.212 ppb	101.653 %	101.293 %
Recovery Percentage 1	-0.805 %			11.339 %	2.340 %	-0.383 %	9.536 %		
Concentration RSD	53.9 %	1.4 %	3.8 %	92.0 %	149.2 %	470.8 %	21.2 %	1.4 %	3.6 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.004 ppb	0.005 ppb	99.959 %	100.149 %	0.049 ppb	0.012 ppb	99.926 %	104.245 %	99.231 %
Concentration per Run 1	0.005 ppb	0.003 ppb	100.647 %	96.245 %	0.039 ppb	0.012 ppb	100.227 %	97.636 %	99.901 %
Concentration per Run 2	0.004 ppb	0.005 ppb	98.916 %	102.224 %	0.046 ppb	0.011 ppb	100.176 %	105.217 %	98.682 %
Concentration per Run 3	0.004 ppb	0.006 ppb	100.314 %	101.977 %	0.061 ppb	0.011 ppb	99.375 %	109.881 %	99.110 %
Recovery Percentage 1	1.104 %				1.214 %	2.346 %			
Concentration RSD	11.0 %	32.6 %	0.9 %	3.4 %	23.5 %	5.0 %	0.5 %	5.9 %	0.6 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	103.442 %	0.189 ppb	0.010 ppb	103.054 %	106.393 %
Concentration per Run 1	100.403 %	0.219 ppb	0.012 ppb	100.726 %	102.027 %
Concentration per Run 2	103.571 %	0.182 ppb	0.010 ppb	104.298 %	107.641 %
Concentration per Run 3	106.353 %	0.167 ppb	0.008 ppb	104.137 %	109.511 %
Recovery Percentage 1		18.937 %	1.020 %		
Concentration RSD	2.9 %	14.2 %	16.6 %	2.0 %	3.7 %

Analysis index:	29	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	xwg1931174-1 6020TL	Rack	1		
Analysis started at:	6/10/2024 10:49:59 AM	Vial	11		

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 30
Analysis label: wg1931174-1 6020TL
Analysis started at: 6/10/2024 10:52:09 AM
User name ALPHALAB\ICPMSRQ
Rack 1
Vial 11
Comment <Comment>

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	93.424 %	99.158 %	0.008 ppb	0.150 ppb	-6.878 ppb	0.725 ppb	0.158 ppb	-15.661 ppb	8.348 ppb
Concentration per Run 1	94.055 %	92.987 %	0.009 ppb	0.148 ppb	-3.716 ppb	0.527 ppb	-1.350 ppb	-13.203 ppb	10.271 ppb
Concentration per Run 2	93.574 %	102.665 %	0.006 ppb	0.154 ppb	-8.565 ppb	0.634 ppb	2.947 ppb	-13.970 ppb	2.972 ppb
Concentration per Run 3	92.643 %	101.823 %	0.008 ppb	0.148 ppb	-8.352 ppb	1.014 ppb	-1.124 ppb	-19.809 ppb	11.800 ppb
Concentration RSD	0.8 %	5.4 %	19.5 %	2.3 %	39.8 %	35.3 %	1,533.0 %	23.1 %	56.5 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	97.922 %	105.609 %	-0.011 ppb	0.089 ppb	0.054 ppb	1.169 ppb	0.001 ppb	0.021 ppb	0.330 ppb
Concentration per Run 1	95.366 %	100.855 %	-0.024 ppb	0.116 ppb	0.071 ppb	0.584 ppb	0.001 ppb	0.021 ppb	0.342 ppb
Concentration per Run 2	92.811 %	105.804 %	0.007 ppb	0.062 ppb	0.042 ppb	2.245 ppb	-0.003 ppb	-0.003 ppb	0.334 ppb
Concentration per Run 3	105.589 %	110.170 %	-0.017 ppb	0.090 ppb	0.051 ppb	0.678 ppb	0.006 ppb	0.046 ppb	0.314 ppb
Concentration RSD	6.9 %	4.4 %	147.9 %	30.1 %	27.0 %	79.8 %	323.9 %	111.9 %	4.3 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.289 ppb	99.926 %	103.017 %	0.007 ppb	0.013 ppb	-0.016 ppb	0.015 ppb	100.063 %	102.302 %
Concentration per Run 1	0.293 ppb	102.066 %	98.567 %	0.081 ppb	0.065 ppb	-0.024 ppb	0.015 ppb	100.847 %	97.201 %
Concentration per Run 2	0.321 ppb	100.463 %	104.244 %	-0.034 ppb	-0.010 ppb	-0.014 ppb	0.014 ppb	100.248 %	106.884 %
Concentration per Run 3	0.254 ppb	97.250 %	106.240 %	-0.025 ppb	-0.015 ppb	-0.010 ppb	0.016 ppb	99.093 %	102.821 %
Concentration RSD	11.8 %	2.5 %	3.9 %	866.5 %	334.5 %	43.6 %	8.7 %	0.9 %	4.8 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.001 ppb	0.002 ppb	101.564 %	105.049 %	0.007 ppb	0.027 ppb	100.941 %	104.882 %	100.426 %
Concentration per Run 1	0.000 ppb	0.003 ppb	103.855 %	101.153 %	0.003 ppb	0.035 ppb	101.712 %	99.865 %	101.085 %
Concentration per Run 2	0.000 ppb	0.002 ppb	101.949 %	107.576 %	0.005 ppb	0.024 ppb	102.433 %	107.878 %	99.781 %
Concentration per Run 3	0.001 ppb	0.001 ppb	98.887 %	106.419 %	0.012 ppb	0.024 ppb	98.678 %	106.903 %	100.412 %
Concentration RSD	125.4 %	63.7 %	2.5 %	3.3 %	70.7 %	22.6 %	2.0 %	4.2 %	0.6 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	108.833 %	0.023 ppb	0.044 ppb	104.586 %	109.429 %
Concentration per Run 1	102.289 %	0.025 ppb	0.043 ppb	104.875 %	106.151 %
Concentration per Run 2	113.075 %	0.022 ppb	0.042 ppb	106.380 %	109.719 %
Concentration per Run 3	111.135 %	0.021 ppb	0.046 ppb	102.504 %	112.418 %
Concentration RSD	5.3 %	9.6 %	4.2 %	1.9 %	2.9 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	31	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430960-07 6020TL	Rack	1		
Analysis started at:	6/10/2024 10:56:52 AM	Vial	19		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	92.530 %	97.756 %	0.007 ppb	0.475 ppb	2.114 ppb	2.795 ppb	0.597 ppb	-15.759 ppb	29.291 ppb
Concentration per Run 1	93.200 %	95.512 %	0.007 ppb	0.477 ppb	0.784 ppb	2.732 ppb	-0.209 ppb	-17.679 ppb	32.991 ppb
Concentration per Run 2	92.156 %	97.616 %	0.010 ppb	0.473 ppb	6.391 ppb	4.571 ppb	0.131 ppb	-10.672 ppb	39.309 ppb
Concentration per Run 3	92.233 %	100.140 %	0.004 ppb	0.476 ppb	-0.833 ppb	1.081 ppb	1.870 ppb	-18.927 ppb	15.572 ppb
Concentration RSD	0.6 %	2.4 %	48.6 %	0.5 %	179.3 %	62.5 %	186.8 %	28.2 %	42.0 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	99.617 %	103.657 %	0.006 ppb	0.166 ppb	0.123 ppb	4.864 ppb	0.030 ppb	0.039 ppb	0.660 ppb
Concentration per Run 1	110.168 %	101.455 %	-0.003 ppb	0.142 ppb	0.068 ppb	2.171 ppb	0.009 ppb	-0.002 ppb	0.695 ppb
Concentration per Run 2	94.381 %	102.526 %	0.033 ppb	0.220 ppb	0.246 ppb	11.009 ppb	0.071 ppb	0.137 ppb	0.674 ppb
Concentration per Run 3	94.301 %	106.989 %	-0.013 ppb	0.137 ppb	0.054 ppb	1.414 ppb	0.009 ppb	-0.019 ppb	0.613 ppb
Concentration RSD	9.2 %	2.8 %	416.1 %	27.9 %	87.0 %	109.7 %	121.6 %	222.1 %	6.4 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.596 ppb	101.115 %	102.849 %	0.010 ppb	0.019 ppb	0.668 ppb	0.068 ppb	103.437 %	103.566 %
Concentration per Run 1	0.531 ppb	101.401 %	99.116 %	-0.049 ppb	-0.014 ppb	0.708 ppb	0.039 ppb	105.535 %	101.418 %
Concentration per Run 2	0.728 ppb	102.103 %	103.732 %	0.099 ppb	0.082 ppb	0.667 ppb	0.118 ppb	102.741 %	104.286 %
Concentration per Run 3	0.529 ppb	99.842 %	105.699 %	-0.019 ppb	-0.012 ppb	0.628 ppb	0.048 ppb	102.036 %	104.994 %
Concentration RSD	19.2 %	1.1 %	3.3 %	746.3 %	293.9 %	6.0 %	63.9 %	1.8 %	1.8 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.021 ppb	0.022 ppb	103.200 %	104.814 %	0.039 ppb	0.713 ppb	100.637 %	106.628 %	98.686 %
Concentration per Run 1	0.000 ppb	0.003 ppb	102.701 %	98.906 %	0.018 ppb	0.703 ppb	100.186 %	102.050 %	97.947 %
Concentration per Run 2	0.061 ppb	0.059 ppb	102.877 %	105.507 %	0.085 ppb	0.718 ppb	99.036 %	108.581 %	98.690 %
Concentration per Run 3	0.001 ppb	0.003 ppb	104.023 %	110.030 %	0.014 ppb	0.718 ppb	102.688 %	109.252 %	99.421 %
Concentration RSD	169.9 %	151.0 %	0.7 %	5.3 %	102.6 %	1.2 %	1.9 %	3.7 %	0.7 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.944 %	0.015 ppb	0.054 ppb	106.739 %	110.938 %
Concentration per Run 1	102.274 %	0.015 ppb	0.057 ppb	106.007 %	105.444 %
Concentration per Run 2	108.699 %	0.015 ppb	0.052 ppb	109.503 %	111.050 %
Concentration per Run 3	112.859 %	0.014 ppb	0.052 ppb	104.707 %	116.320 %
Concentration RSD	4.9 %	3.8 %	5.0 %	2.3 %	4.9 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	32	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1931174-2d10 6020TL	Rack	1		
Analysis started at:	6/10/2024 11:01:33 AM	Vial	12		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	91.579 %	91.094 %	4.753 ppb	94.011 ppb	998.171 ppb	975.653 ppb	199.820 ppb	998.013 ppb	1,056.034 ppb
Concentration per Run 1	92.466 %	95.091 %	4.717 ppb	92.782 ppb	980.970 ppb	997.246 ppb	203.987 ppb	1,003.249 ppb	1,012.717 ppb
Concentration per Run 2	90.906 %	86.045 %	4.803 ppb	95.461 ppb	1,027.759 ppb	996.382 ppb	202.115 ppb	1,010.968 ppb	1,109.431 ppb
Concentration per Run 3	91.366 %	92.146 %	4.740 ppb	93.792 ppb	985.785 ppb	933.331 ppb	193.358 ppb	979.822 ppb	1,045.954 ppb
Concentration RSD	0.9 %	5.1 %	0.9 %	1.4 %	2.6 %	3.8 %	2.8 %	1.6 %	4.7 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	99.584 %	99.053 %	49.778 ppb	20.185 ppb	50.939 ppb	107.321 ppb	49.919 ppb	50.696 ppb	24.538 ppb
Concentration per Run 1	103.563 %	96.960 %	52.108 ppb	21.017 ppb	52.410 ppb	111.375 ppb	52.910 ppb	51.971 ppb	25.766 ppb
Concentration per Run 2	91.161 %	99.751 %	48.092 ppb	20.080 ppb	49.915 ppb	106.907 ppb	48.797 ppb	50.688 ppb	24.104 ppb
Concentration per Run 3	104.027 %	100.449 %	49.134 ppb	19.458 ppb	50.494 ppb	103.680 ppb	48.051 ppb	49.429 ppb	23.743 ppb
Concentration RSD	7.3 %	1.9 %	4.2 %	3.9 %	2.6 %	3.6 %	5.2 %	2.5 %	4.4 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	48.039 ppb	99.959 %	97.234 %	12.197 ppb	11.400 ppb	93.715 ppb	90.859 ppb	94.501 %	99.675 %
Concentration per Run 1	50.086 ppb	99.143 %	92.405 %	12.882 ppb	11.373 ppb	98.339 ppb	95.917 ppb	88.670 %	95.975 %
Concentration per Run 2	47.198 ppb	100.803 %	99.260 %	11.962 ppb	11.886 ppb	91.191 ppb	87.608 ppb	96.987 %	100.853 %
Concentration per Run 3	46.832 ppb	99.932 %	100.038 %	11.748 ppb	10.943 ppb	91.613 ppb	89.051 ppb	97.845 %	102.197 %
Concentration RSD	3.7 %	0.8 %	4.3 %	4.9 %	4.1 %	4.3 %	4.9 %	5.4 %	3.3 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	4.777 ppb	5.122 ppb	101.700 %	104.131 %	44.788 ppb	204.638 ppb	101.029 %	101.329 %	99.607 %
Concentration per Run 1	5.037 ppb	5.381 ppb	99.841 %	99.092 %	47.010 ppb	205.727 ppb	104.439 %	97.342 %	102.712 %
Concentration per Run 2	4.666 ppb	5.029 ppb	102.484 %	105.682 %	43.636 ppb	205.288 ppb	97.423 %	103.506 %	97.630 %
Concentration per Run 3	4.628 ppb	4.958 ppb	102.775 %	107.620 %	43.719 ppb	202.898 ppb	101.225 %	103.138 %	98.478 %
Concentration RSD	4.7 %	4.4 %	1.6 %	4.3 %	4.3 %	0.7 %	3.5 %	3.4 %	2.7 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	105.162 %	9.724 ppb	49.757 ppb	100.459 %	103.596 %
Concentration per Run 1	101.754 %	9.742 ppb	47.781 ppb	101.286 %	98.553 %
Concentration per Run 2	107.164 %	9.651 ppb	52.687 ppb	101.031 %	104.574 %
Concentration per Run 3	106.568 %	9.780 ppb	48.802 ppb	99.060 %	107.662 %
Concentration RSD	2.8 %	0.7 %	5.2 %	1.2 %	4.5 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	33	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430614-01 6020TL	Rack	1		
Analysis started at:	6/10/2024 11:06:16 AM	Vial	13		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	88.790 %	90.322 %	0.011 ppb	17.245 ppb	18,023.793 ppb	20,185.096 ppb	5.120 ppb	1,475.007 ppb	47,775.891 ppb
Concentration per Run 1	89.243 %	85.203 %	0.012 ppb	17.227 ppb	18,950.304 ppb	21,341.495 ppb	6.811 ppb	1,530.031 ppb	49,723.466 ppb
Concentration per Run 2	88.754 %	92.567 %	0.009 ppb	17.472 ppb	17,426.879 ppb	19,538.525 ppb	3.073 ppb	1,432.868 ppb	46,090.216 ppb
Concentration per Run 3	88.373 %	93.198 %	0.012 ppb	17.036 ppb	17,694.196 ppb	19,675.268 ppb	5.477 ppb	1,462.121 ppb	47,513.989 ppb
Concentration RSD	0.5 %	4.9 %	15.4 %	1.3 %	4.5 %	5.0 %	37.0 %	3.4 %	3.8 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	101.802 %	97.155 %	0.726 ppb	0.388 ppb	570.374 ppb	207.494 ppb	1.037 ppb	1.586 ppb	0.900 ppb
Concentration per Run 1	95.291 %	95.013 %	0.783 ppb	0.392 ppb	595.522 ppb	219.482 ppb	1.093 ppb	1.598 ppb	0.943 ppb
Concentration per Run 2	95.804 %	98.550 %	0.679 ppb	0.410 ppb	556.544 ppb	194.316 ppb	1.008 ppb	1.561 ppb	0.879 ppb
Concentration per Run 3	114.312 %	97.901 %	0.716 ppb	0.362 ppb	559.055 ppb	208.685 ppb	1.011 ppb	1.598 ppb	0.879 ppb
Concentration RSD	10.6 %	1.9 %	7.3 %	6.3 %	3.8 %	6.1 %	4.6 %	1.3 %	4.1 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	3.315 ppb	104.098 %	99.443 %	3.023 ppb	0.458 ppb	327.793 ppb	0.736 ppb	90.290 %	92.408 %
Concentration per Run 1	3.431 ppb	104.295 %	94.633 %	3.321 ppb	0.509 ppb	339.223 ppb	0.726 ppb	90.015 %	88.578 %
Concentration per Run 2	3.311 ppb	104.670 %	102.944 %	2.990 ppb	0.590 ppb	320.272 ppb	0.753 ppb	90.191 %	93.105 %
Concentration per Run 3	3.204 ppb	103.330 %	100.752 %	2.758 ppb	0.276 ppb	323.882 ppb	0.730 ppb	90.664 %	95.542 %
Concentration RSD	3.4 %	0.7 %	4.3 %	9.4 %	35.6 %	3.1 %	2.0 %	0.4 %	3.8 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.026 ppb	98.930 %	95.855 %	0.700 ppb	262.144 ppb	100.682 %	100.861 %	101.475 %
Concentration per Run 1	0.000 ppb	0.028 ppb	100.621 %	91.333 %	0.618 ppb	263.329 ppb	99.738 %	96.735 %	100.267 %
Concentration per Run 2	0.001 ppb	0.030 ppb	98.128 %	97.656 %	0.749 ppb	260.088 ppb	101.594 %	103.237 %	101.772 %
Concentration per Run 3	-0.001 ppb	0.018 ppb	98.043 %	98.577 %	0.734 ppb	263.016 ppb	100.713 %	102.612 %	102.386 %
Concentration RSD	1,277.2 %	24.3 %	1.5 %	4.1 %	10.2 %	0.7 %	0.9 %	3.6 %	1.1 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	105.403 %	0.030 ppb	0.068 ppb	97.966 %	100.073 %
Concentration per Run 1	99.786 %	0.032 ppb	0.071 ppb	96.819 %	95.099 %
Concentration per Run 2	107.330 %	0.031 ppb	0.069 ppb	96.873 %	101.641 %
Concentration per Run 3	109.094 %	0.027 ppb	0.065 ppb	100.205 %	103.479 %
Concentration RSD	4.7 %	9.1 %	4.6 %	2.0 %	4.4 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	34	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1931174-3d10 6020TL	Rack	1		
Analysis started at:	6/10/2024 11:10:55 AM	Vial	14		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	91.847 %	93.198 %	4.857 ppb	95.574 ppb	2,968.444 ppb	2,922.643 ppb	207.623 ppb	1,196.176 ppb	5,745.323 ppb
Concentration per Run 1	92.494 %	91.515 %	4.895 ppb	94.461 ppb	3,077.054 ppb	3,025.463 ppb	209.918 ppb	1,274.917 ppb	6,164.478 ppb
Concentration per Run 2	91.389 %	94.039 %	4.839 ppb	96.515 ppb	2,923.672 ppb	2,873.398 ppb	208.154 ppb	1,177.569 ppb	5,625.170 ppb
Concentration per Run 3	91.658 %	94.039 %	4.837 ppb	95.747 ppb	2,904.606 ppb	2,869.069 ppb	204.797 ppb	1,136.041 ppb	5,446.321 ppb
Concentration RSD	0.6 %	1.6 %	0.7 %	1.1 %	3.2 %	3.0 %	1.3 %	6.0 %	6.5 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	104.371 %	95.083 %	52.040 ppb	21.132 ppb	109.245 ppb	128.571 ppb	51.246 ppb	50.873 ppb	24.946 ppb
Concentration per Run 1	108.060 %	92.043 %	55.785 ppb	22.421 ppb	114.580 ppb	135.736 ppb	54.526 ppb	53.405 ppb	25.942 ppb
Concentration per Run 2	103.328 %	95.013 %	50.592 ppb	20.942 ppb	107.713 ppb	134.315 ppb	48.882 ppb	50.011 ppb	24.645 ppb
Concentration per Run 3	101.723 %	98.193 %	49.745 ppb	20.032 ppb	105.444 ppb	115.663 ppb	50.329 ppb	49.202 ppb	24.251 ppb
Concentration RSD	3.2 %	3.2 %	6.3 %	5.7 %	4.4 %	8.7 %	5.7 %	4.4 %	3.5 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	49.145 ppb	100.512 %	98.908 %	12.528 ppb	12.370 ppb	126.073 ppb	94.146 ppb	97.456 %	97.380 %
Concentration per Run 1	52.354 ppb	101.243 %	94.718 %	13.300 ppb	12.062 ppb	134.851 ppb	102.465 ppb	96.234 %	91.218 %
Concentration per Run 2	47.760 ppb	102.448 %	101.553 %	12.409 ppb	12.119 ppb	120.516 ppb	89.252 ppb	97.840 %	99.471 %
Concentration per Run 3	47.322 ppb	97.845 %	100.452 %	11.876 ppb	12.930 ppb	122.852 ppb	90.722 ppb	98.294 %	101.452 %
Concentration RSD	5.7 %	2.4 %	3.7 %	5.7 %	3.9 %	6.1 %	7.7 %	1.1 %	5.6 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	4.926 ppb	5.337 ppb	103.020 %	102.987 %	48.225 ppb	231.697 ppb	100.882 %	102.738 %	100.750 %
Concentration per Run 1	5.351 ppb	5.760 ppb	104.833 %	97.406 %	51.560 ppb	230.840 ppb	100.177 %	96.410 %	101.568 %
Concentration per Run 2	4.748 ppb	5.218 ppb	103.706 %	104.919 %	46.633 ppb	233.697 ppb	101.295 %	106.852 %	99.749 %
Concentration per Run 3	4.679 ppb	5.034 ppb	100.520 %	106.637 %	46.482 ppb	230.554 ppb	101.172 %	104.953 %	100.933 %
Concentration RSD	7.5 %	7.1 %	2.2 %	4.8 %	6.0 %	0.8 %	0.6 %	5.4 %	0.9 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	105.160 %	10.033 ppb	54.104 ppb	100.608 %	101.303 %
Concentration per Run 1	96.829 %	10.180 ppb	54.710 ppb	99.782 %	95.068 %
Concentration per Run 2	108.870 %	10.167 ppb	54.482 ppb	99.787 %	102.457 %
Concentration per Run 3	109.782 %	9.752 ppb	53.120 ppb	102.255 %	106.386 %
Concentration RSD	6.9 %	2.4 %	1.6 %	1.4 %	5.7 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	35	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1931174-4 6020TL	Rack	1		
Analysis started at:	6/10/2024 11:15:35 AM	Vial	15		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.169 %	90.884 %	0.008 ppb	16.792 ppb	17,716.667 ppb	19,818.055 ppb	3.026 ppb	1,452.997 ppb	47,331.489 ppb
Concentration per Run 1	89.091 %	83.520 %	0.010 ppb	16.746 ppb	19,108.012 ppb	21,423.766 ppb	0.548 ppb	1,534.775 ppb	50,831.849 ppb
Concentration per Run 2	88.697 %	93.829 %	0.007 ppb	16.948 ppb	16,932.189 ppb	19,132.898 ppb	5.553 ppb	1,394.125 ppb	46,246.131 ppb
Concentration per Run 3	89.720 %	95.301 %	0.007 ppb	16.681 ppb	17,109.802 ppb	18,897.501 ppb	2.976 ppb	1,430.091 ppb	44,916.486 ppb
Concentration RSD	0.6 %	7.1 %	20.5 %	0.8 %	6.8 %	7.0 %	82.7 %	5.0 %	6.6 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	95.515 %	95.716 %	0.733 ppb	0.412 ppb	559.369 ppb	206.648 ppb	1.019 ppb	1.637 ppb	0.940 ppb
Concentration per Run 1	96.557 %	92.238 %	0.847 ppb	0.446 ppb	594.192 ppb	225.829 ppb	1.041 ppb	1.739 ppb	0.996 ppb
Concentration per Run 2	95.515 %	95.775 %	0.660 ppb	0.395 ppb	552.229 ppb	205.679 ppb	1.052 ppb	1.648 ppb	0.929 ppb
Concentration per Run 3	94.474 %	99.135 %	0.692 ppb	0.395 ppb	531.687 ppb	188.435 ppb	0.964 ppb	1.522 ppb	0.895 ppb
Concentration RSD	1.1 %	3.6 %	13.6 %	7.2 %	5.7 %	9.1 %	4.7 %	6.7 %	5.5 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	3.298 ppb	105.251 %	100.537 %	2.811 ppb	0.566 ppb	316.507 ppb	0.717 ppb	94.138 %	93.187 %
Concentration per Run 1	3.659 ppb	105.633 %	94.905 %	3.040 ppb	0.577 ppb	334.978 ppb	0.781 ppb	94.998 %	87.438 %
Concentration per Run 2	3.107 ppb	104.495 %	100.656 %	2.774 ppb	0.673 ppb	307.898 ppb	0.713 ppb	96.373 %	97.031 %
Concentration per Run 3	3.127 ppb	105.626 %	106.050 %	2.620 ppb	0.447 ppb	306.645 ppb	0.656 ppb	91.042 %	95.093 %
Concentration RSD	9.5 %	0.6 %	5.5 %	7.6 %	20.0 %	5.1 %	8.8 %	2.9 %	5.4 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.002 ppb	0.029 ppb	97.665 %	96.380 %	0.428 ppb	256.104 ppb	100.625 %	101.430 %	101.568 %
Concentration per Run 1	0.003 ppb	0.039 ppb	98.679 %	91.675 %	0.404 ppb	252.134 ppb	100.915 %	95.657 %	102.223 %
Concentration per Run 2	0.001 ppb	0.018 ppb	97.094 %	98.615 %	0.425 ppb	259.085 ppb	99.684 %	103.903 %	101.307 %
Concentration per Run 3	0.001 ppb	0.031 ppb	97.221 %	98.850 %	0.456 ppb	257.092 ppb	101.277 %	104.731 %	101.172 %
Concentration RSD	63.9 %	35.5 %	0.9 %	4.2 %	6.1 %	1.4 %	0.8 %	4.9 %	0.6 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	105.647 %	0.038 ppb	0.063 ppb	99.877 %	101.290 %
Concentration per Run 1	100.469 %	0.040 ppb	0.063 ppb	98.601 %	94.781 %
Concentration per Run 2	106.751 %	0.040 ppb	0.066 ppb	97.065 %	104.037 %
Concentration per Run 3	109.720 %	0.034 ppb	0.060 ppb	103.964 %	105.053 %
Concentration RSD	4.5 %	9.5 %	4.6 %	3.6 %	5.6 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	36	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1931174-5d10 6020TL	Rack	1		
Analysis started at:	6/10/2024 11:20:15 AM	Vial	16		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.557 %	87.307 %	51.002 ppb	52.671 ppb	7,228.021 ppb	7,196.549 ppb	54.751 ppb	5,286.243 ppb	10,083.333 ppb
Concentration per Run 1	89.741 %	80.364 %	51.020 ppb	53.058 ppb	7,706.862 ppb	7,664.362 ppb	56.498 ppb	5,483.815 ppb	10,476.014 ppb
Concentration per Run 2	89.675 %	91.304 %	51.262 ppb	53.239 ppb	6,866.237 ppb	6,744.882 ppb	53.347 ppb	5,139.048 ppb	9,623.969 ppb
Concentration per Run 3	89.254 %	90.252 %	50.725 ppb	51.715 ppb	7,110.965 ppb	7,180.403 ppb	54.408 ppb	5,235.867 ppb	10,150.017 ppb
Concentration RSD	0.3 %	6.9 %	0.5 %	1.6 %	6.0 %	6.4 %	2.9 %	3.4 %	4.3 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	108.350 %	101.282 %	54.222 ppb	53.781 ppb	108.546 ppb	5,233.395 ppb	51.826 ppb	53.075 ppb	49.791 ppb
Concentration per Run 1	107.279 %	98.729 %	57.868 ppb	56.121 ppb	113.674 ppb	5,566.153 ppb	56.325 ppb	56.631 ppb	53.588 ppb
Concentration per Run 2	107.572 %	103.792 %	51.270 ppb	51.969 ppb	103.358 ppb	4,980.695 ppb	48.356 ppb	51.396 ppb	47.175 ppb
Concentration per Run 3	110.200 %	101.325 %	53.529 ppb	53.252 ppb	108.607 ppb	5,153.337 ppb	50.797 ppb	51.197 ppb	48.611 ppb
Concentration RSD	1.5 %	2.5 %	6.2 %	4.0 %	4.8 %	5.7 %	7.9 %	5.8 %	6.8 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	51.072 ppb	102.271 %	99.502 %	50.836 ppb	50.260 ppb	84.392 ppb	51.223 ppb	96.569 %	97.438 %
Concentration per Run 1	54.075 ppb	102.770 %	94.157 %	54.389 ppb	53.616 ppb	87.861 ppb	53.838 ppb	98.404 %	92.992 %
Concentration per Run 2	49.658 ppb	102.916 %	103.927 %	48.391 ppb	46.789 ppb	81.889 ppb	49.763 ppb	95.157 %	99.255 %
Concentration per Run 3	49.483 ppb	101.127 %	100.422 %	49.729 ppb	50.374 ppb	83.425 ppb	50.069 ppb	96.146 %	100.066 %
Concentration RSD	5.1 %	1.0 %	5.0 %	6.2 %	6.8 %	3.7 %	4.4 %	1.7 %	4.0 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	1.810 ppb	51.317 ppb	97.694 %	100.301 %	52.054 ppb	74.863 ppb	101.632 %	102.703 %	100.428 %
Concentration per Run 1	1.863 ppb	53.926 ppb	96.182 %	95.428 %	55.742 ppb	75.702 ppb	105.348 %	97.529 %	101.880 %
Concentration per Run 2	1.750 ppb	49.225 ppb	97.115 %	102.313 %	50.642 ppb	76.187 ppb	102.505 %	103.562 %	101.879 %
Concentration per Run 3	1.818 ppb	50.800 ppb	99.784 %	103.162 %	49.777 ppb	72.701 ppb	97.042 %	107.019 %	97.526 %
Concentration RSD	3.1 %	4.7 %	1.9 %	4.2 %	6.2 %	2.5 %	4.2 %	4.7 %	2.5 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.171 %	51.200 ppb	48.161 ppb	98.658 %	103.392 %
Concentration per Run 1	100.466 %	50.596 ppb	47.221 ppb	99.283 %	99.532 %
Concentration per Run 2	111.275 %	51.836 ppb	48.554 ppb	98.681 %	102.802 %
Concentration per Run 3	109.772 %	51.168 ppb	48.707 ppb	98.011 %	107.841 %
Concentration RSD	5.5 %	1.2 %	1.7 %	0.6 %	4.0 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	37	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1931174-6d5 6020TL	Rack	1		
Analysis started at:	6/10/2024 11:24:55 AM	Vial	17		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	90.660 %	89.411 %	0.021 ppb	3.239 ppb	3,831.860 ppb	3,843.174 ppb	0.163 ppb	264.510 ppb	8,763.526 ppb
Concentration per Run 1	91.042 %	87.097 %	0.021 ppb	3.195 ppb	3,894.726 ppb	3,919.136 ppb	1.932 ppb	259.202 ppb	8,793.122 ppb
Concentration per Run 2	91.170 %	90.463 %	0.023 ppb	3.222 ppb	3,799.572 ppb	3,769.196 ppb	-0.106 ppb	264.807 ppb	8,944.798 ppb
Concentration per Run 3	89.768 %	90.673 %	0.020 ppb	3.300 ppb	3,801.283 ppb	3,841.188 ppb	-1.336 ppb	269.522 ppb	8,552.657 ppb
Concentration RSD	0.9 %	2.2 %	6.8 %	1.7 %	1.4 %	2.0 %	1,009.7 %	2.0 %	2.3 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	103.065 %	100.465 %	0.134 ppb	0.089 ppb	105.359 ppb	42.605 ppb	0.199 ppb	0.328 ppb	0.193 ppb
Concentration per Run 1	109.819 %	101.066 %	0.146 ppb	0.074 ppb	105.592 ppb	41.322 ppb	0.203 ppb	0.321 ppb	0.213 ppb
Concentration per Run 2	94.327 %	99.053 %	0.128 ppb	0.098 ppb	106.101 ppb	46.157 ppb	0.214 ppb	0.377 ppb	0.154 ppb
Concentration per Run 3	105.048 %	101.277 %	0.128 ppb	0.094 ppb	104.383 ppb	40.336 ppb	0.180 ppb	0.286 ppb	0.212 ppb
Concentration RSD	7.7 %	1.2 %	7.7 %	14.3 %	0.8 %	7.3 %	8.9 %	14.0 %	17.3 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.778 ppb	100.970 %	100.451 %	0.623 ppb	0.206 ppb	59.377 ppb	0.297 ppb	96.473 %	99.951 %
Concentration per Run 1	0.720 ppb	100.961 %	99.540 %	0.664 ppb	0.282 ppb	58.959 ppb	0.245 ppb	95.168 %	98.236 %
Concentration per Run 2	0.747 ppb	100.288 %	99.029 %	0.623 ppb	0.156 ppb	59.194 ppb	0.313 ppb	97.037 %	100.866 %
Concentration per Run 3	0.866 ppb	101.662 %	102.783 %	0.581 ppb	0.180 ppb	59.977 ppb	0.332 ppb	97.214 %	100.752 %
Concentration RSD	10.0 %	0.7 %	2.0 %	6.7 %	32.5 %	0.9 %	15.5 %	1.2 %	1.5 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.001 ppb	0.005 ppb	98.821 %	102.714 %	0.107 ppb	44.465 ppb	101.564 %	104.857 %	99.567 %
Concentration per Run 1	0.000 ppb	0.003 ppb	99.259 %	101.071 %	0.088 ppb	43.681 ppb	103.654 %	102.420 %	101.772 %
Concentration per Run 2	0.002 ppb	0.006 ppb	100.022 %	103.193 %	0.102 ppb	43.320 ppb	102.129 %	105.730 %	98.383 %
Concentration per Run 3	0.001 ppb	0.007 ppb	97.180 %	103.877 %	0.130 ppb	46.394 ppb	98.908 %	106.420 %	98.545 %
Concentration RSD	89.6 %	40.5 %	1.5 %	1.4 %	20.5 %	3.8 %	2.4 %	2.0 %	1.9 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	108.727 %	0.198 ppb	0.021 ppb	101.680 %	107.038 %
Concentration per Run 1	108.604 %	0.219 ppb	0.022 ppb	100.558 %	103.624 %
Concentration per Run 2	108.768 %	0.199 ppb	0.022 ppb	102.043 %	107.300 %
Concentration per Run 3	108.809 %	0.177 ppb	0.019 ppb	102.439 %	110.190 %
Concentration RSD	0.1 %	10.6 %	8.5 %	1.0 %	3.1 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	38	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430614-02 6020TL	Rack	1		
Analysis started at:	6/10/2024 11:29:35 AM	Vial	18		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.269 %	93.759 %	0.012 ppb	18.475 ppb	19,042.560 ppb	19,127.849 ppb	1.755 ppb	1,477.913 ppb	44,989.909 ppb
Concentration per Run 1	89.050 %	89.832 %	0.012 ppb	18.783 ppb	19,901.947 ppb	19,961.632 ppb	0.710 ppb	1,505.469 ppb	46,270.753 ppb
Concentration per Run 2	89.255 %	102.244 %	0.011 ppb	18.722 ppb	18,011.626 ppb	17,976.716 ppb	3.092 ppb	1,432.230 ppb	45,008.539 ppb
Concentration per Run 3	89.502 %	89.200 %	0.014 ppb	17.920 ppb	19,214.107 ppb	19,445.198 ppb	1.461 ppb	1,496.040 ppb	43,690.437 ppb
Concentration RSD	0.3 %	7.8 %	10.2 %	2.6 %	5.0 %	5.4 %	69.4 %	2.7 %	2.9 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	102.662 %	100.838 %	0.813 ppb	0.601 ppb	0.235 ppb	3.179 ppb	0.035 ppb	0.127 ppb	0.562 ppb
Concentration per Run 1	96.036 %	99.086 %	0.727 ppb	0.599 ppb	0.234 ppb	2.649 ppb	0.027 ppb	0.102 ppb	0.591 ppb
Concentration per Run 2	94.858 %	101.504 %	0.829 ppb	0.583 ppb	0.235 ppb	3.647 ppb	0.039 ppb	0.154 ppb	0.541 ppb
Concentration per Run 3	117.092 %	101.926 %	0.884 ppb	0.622 ppb	0.236 ppb	3.243 ppb	0.040 ppb	0.124 ppb	0.555 ppb
Concentration RSD	12.2 %	1.5 %	9.8 %	3.3 %	0.3 %	15.8 %	19.5 %	20.4 %	4.5 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.906 ppb	105.721 %	102.074 %	1.779 ppb	0.707 ppb	319.512 ppb	0.353 ppb	91.540 %	96.976 %
Concentration per Run 1	0.967 ppb	106.166 %	97.282 %	1.881 ppb	0.753 ppb	328.422 ppb	0.284 ppb	90.274 %	94.455 %
Concentration per Run 2	0.906 ppb	105.207 %	103.586 %	1.704 ppb	0.515 ppb	310.984 ppb	0.377 ppb	92.623 %	99.497 %
Concentration per Run 3	0.845 ppb	105.791 %	105.354 %	1.753 ppb	0.853 ppb	319.131 ppb	0.400 ppb	91.722 %	96.975 %
Concentration RSD	6.7 %	0.5 %	4.2 %	5.1 %	24.6 %	2.7 %	17.3 %	1.3 %	2.6 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.001 ppb	0.002 ppb	97.821 %	100.777 %	0.099 ppb	262.663 ppb	99.968 %	105.161 %	100.821 %
Concentration per Run 1	0.000 ppb	0.001 ppb	98.084 %	96.832 %	0.097 ppb	266.903 ppb	100.404 %	103.415 %	101.534 %
Concentration per Run 2	0.001 ppb	0.002 ppb	95.374 %	103.153 %	0.087 ppb	265.707 ppb	102.232 %	107.252 %	101.182 %
Concentration per Run 3	0.001 ppb	0.004 ppb	100.004 %	102.346 %	0.115 ppb	255.379 ppb	97.269 %	104.816 %	99.747 %
Concentration RSD	103.6 %	75.0 %	2.4 %	3.4 %	14.4 %	2.4 %	2.5 %	1.8 %	0.9 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	109.022 %	0.075 ppb	0.047 ppb	101.815 %	104.068 %
Concentration per Run 1	105.626 %	0.078 ppb	0.046 ppb	101.664 %	99.036 %
Concentration per Run 2	110.401 %	0.076 ppb	0.046 ppb	101.734 %	106.414 %
Concentration per Run 3	111.038 %	0.072 ppb	0.050 ppb	102.049 %	106.753 %
Concentration RSD	2.7 %	4.1 %	5.1 %	0.2 %	4.2 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 39
Analysis label: CCV
Analysis started at: 6/10/2024 11:34:43 AM
User name ALPHALAB\ICPMSRQ
Rack 0
Vial 9
Comment <Comment>

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	90.471 %	91.234 %	61.198 ppb	60.781 ppb	6,114.285 ppb	6,126.200 ppb	71.194 ppb	6,194.569 ppb	6,338.520 ppb
Concentration per Run 1	90.941 %	83.941 %	60.990 ppb	60.534 ppb	6,585.596 ppb	6,684.622 ppb	69.555 ppb	6,500.097 ppb	6,692.893 ppb
Concentration per Run 2	90.447 %	93.618 %	61.022 ppb	59.768 ppb	5,927.031 ppb	5,964.539 ppb	63.231 ppb	6,095.814 ppb	6,210.012 ppb
Concentration per Run 3	90.024 %	96.143 %	61.582 ppb	62.040 ppb	5,830.230 ppb	5,729.438 ppb	80.796 ppb	5,987.796 ppb	6,112.653 ppb
Recovery Percentage 1			101.997 %	101.301 %	101.905 %	102.103 %	118.657 %	103.243 %	105.642 %
Concentration RSD	0.5 %	7.1 %	0.5 %	1.9 %	6.7 %	8.1 %	12.5 %	4.4 %	4.9 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	103.020 %	103.565 %	63.330 ppb	63.476 ppb	62.543 ppb	6,307.287 ppb	63.289 ppb	64.060 ppb	62.310 ppb
Concentration per Run 1	108.218 %	100.806 %	66.181 ppb	67.008 ppb	65.128 ppb	6,591.270 ppb	67.056 ppb	67.919 ppb	64.795 ppb
Concentration per Run 2	109.941 %	103.646 %	62.273 ppb	62.267 ppb	61.432 ppb	6,121.465 ppb	62.754 ppb	62.680 ppb	62.737 ppb
Concentration per Run 3	90.901 %	106.242 %	61.535 ppb	61.154 ppb	61.068 ppb	6,209.127 ppb	60.056 ppb	61.581 ppb	59.398 ppb
Recovery Percentage 1			105.549 %	105.794 %	104.238 %	105.121 %	105.481 %	106.767 %	103.850 %
Concentration RSD	10.2 %	2.6 %	3.9 %	4.9 %	3.6 %	4.0 %	5.6 %	5.3 %	4.4 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	62.108 ppb	102.466 %	101.074 %	60.210 ppb	59.701 ppb	61.257 ppb	60.751 ppb	95.710 %	98.590 %
Concentration per Run 1	65.253 ppb	103.578 %	97.196 %	63.118 ppb	62.096 ppb	64.010 ppb	64.339 ppb	95.983 %	93.069 %
Concentration per Run 2	60.912 ppb	102.605 %	102.723 %	58.789 ppb	58.219 ppb	60.100 ppb	59.487 ppb	92.456 %	101.154 %
Concentration per Run 3	60.159 ppb	101.214 %	103.303 %	58.722 ppb	58.788 ppb	59.660 ppb	58.428 ppb	98.691 %	101.546 %
Recovery Percentage 1	103.513 %			100.349 %	99.501 %	102.094 %	101.252 %		
Concentration RSD	4.4 %	1.2 %	3.3 %	4.2 %	3.5 %	3.9 %	5.2 %	3.3 %	4.9 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	62.199 ppb	62.513 ppb	98.278 %	101.314 %	61.990 ppb	61.954 ppb	101.132 %	103.266 %	101.493 %
Concentration per Run 1	66.498 ppb	65.736 ppb	100.902 %	95.589 %	65.962 ppb	60.598 ppb	102.267 %	96.844 %	100.990 %
Concentration per Run 2	59.790 ppb	60.775 ppb	96.440 %	102.205 %	61.674 ppb	62.223 ppb	102.978 %	103.901 %	102.384 %
Concentration per Run 3	60.309 ppb	61.028 ppb	97.491 %	106.149 %	58.333 ppb	63.041 ppb	98.150 %	109.053 %	101.105 %
Recovery Percentage 1	103.665 %	104.188 %			103.317 %	103.256 %			
Concentration RSD	6.0 %	4.5 %	2.4 %	5.3 %	6.2 %	2.0 %	2.6 %	5.9 %	0.8 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.572 %	61.138 ppb	61.887 ppb	100.674 %	104.303 %
Concentration per Run 1	101.489 %	60.888 ppb	61.656 ppb	101.049 %	98.977 %
Concentration per Run 2	108.579 %	60.886 ppb	61.049 ppb	101.079 %	105.675 %
Concentration per Run 3	112.647 %	61.640 ppb	62.955 ppb	99.893 %	108.257 %
Recovery Percentage 1		101.897 %	103.144 %		
Concentration RSD	5.2 %	0.7 %	1.6 %	0.7 %	4.6 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 40 User name ALPHALAB\ICPMSRQ Comment <Commen>
Analysis label: CCB Rack 0
Analysis started at: 6/10/2024 11:39:28 AM Vial 10

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	90.761 %	92.496 %	0.027 ppb	0.215 ppb	-5.541 ppb	0.250 ppb	-1.504 ppb	-14.205 ppb	7.220 ppb
Concentration per Run 1	90.983 %	86.676 %	0.027 ppb	0.230 ppb	-1.106 ppb	0.401 ppb	-1.741 ppb	-13.574 ppb	9.285 ppb
Concentration per Run 2	90.634 %	96.143 %	0.030 ppb	0.223 ppb	-8.844 ppb	-0.140 ppb	-1.399 ppb	-12.614 ppb	6.140 ppb
Concentration per Run 3	90.668 %	94.670 %	0.024 ppb	0.193 ppb	-6.674 ppb	0.490 ppb	-1.373 ppb	-16.426 ppb	6.235 ppb
Recovery Percentage 1			5.383 %	2.155 %	-5.541 %	0.358 %	-15.044 %	-14.205 %	7.220 %
Concentration RSD	0.2 %	5.5 %	9.9 %	9.1 %	72.0 %	136.2 %	13.7 %	14.0 %	24.8 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	100.452 %	103.976 %	-0.001 ppb	0.008 ppb	0.005 ppb	2.102 ppb	0.007 ppb	-0.010 ppb	0.008 ppb
Concentration per Run 1	104.810 %	105.837 %	-0.012 ppb	0.014 ppb	0.006 ppb	1.630 ppb	0.008 ppb	-0.023 ppb	-0.002 ppb
Concentration per Run 2	90.140 %	104.019 %	0.012 ppb	-0.011 ppb	-0.005 ppb	2.908 ppb	0.009 ppb	0.019 ppb	0.003 ppb
Concentration per Run 3	106.407 %	102.072 %	-0.003 ppb	0.020 ppb	0.014 ppb	1.766 ppb	0.004 ppb	-0.027 ppb	0.021 ppb
Recovery Percentage 1			-0.022 %	0.787 %	0.491 %	4.203 %	1.467 %	-0.514 %	0.751 %
Concentration RSD	8.9 %	1.8 %	1,121.8 %	207.8 %	196.5 %	33.4 %	35.8 %	246.2 %	162.6 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.000 ppb	100.662 %	101.759 %	0.073 ppb	0.077 ppb	0.013 ppb	0.188 ppb	99.283 %	103.194 %
Concentration per Run 1	0.028 ppb	100.861 %	101.994 %	0.180 ppb	0.086 ppb	0.001 ppb	0.169 ppb	100.332 %	102.159 %
Concentration per Run 2	-0.032 ppb	101.313 %	102.349 %	0.022 ppb	0.056 ppb	0.012 ppb	0.218 ppb	97.053 %	103.738 %
Concentration per Run 3	0.005 ppb	99.812 %	100.933 %	0.019 ppb	0.089 ppb	0.027 ppb	0.178 ppb	100.463 %	103.685 %
Recovery Percentage 1	-0.001 %			14.648 %	1.533 %	2.689 %	9.420 %		
Concentration RSD	47,986.1 %	0.8 %	0.7 %	125.8 %	23.8 %	97.1 %	13.9 %	1.9 %	0.9 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.008 ppb	0.005 ppb	101.019 %	104.050 %	0.064 ppb	0.020 ppb	100.584 %	105.576 %	99.512 %
Concentration per Run 1	0.012 ppb	0.004 ppb	100.339 %	101.657 %	0.050 ppb	0.023 ppb	102.050 %	105.051 %	99.058 %
Concentration per Run 2	0.009 ppb	0.008 ppb	101.773 %	101.482 %	0.072 ppb	0.015 ppb	101.916 %	106.805 %	101.942 %
Concentration per Run 3	0.005 ppb	0.003 ppb	100.945 %	109.012 %	0.069 ppb	0.022 ppb	97.788 %	104.872 %	97.537 %
Recovery Percentage 1	2.101 %				1.595 %	4.025 %			
Concentration RSD	43.9 %	58.3 %	0.7 %	4.1 %	18.8 %	21.4 %	2.4 %	1.0 %	2.2 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	108.108 %	0.207 ppb	0.009 ppb	103.193 %	109.241 %
Concentration per Run 1	106.165 %	0.238 ppb	0.011 ppb	101.718 %	108.219 %
Concentration per Run 2	108.378 %	0.208 ppb	0.008 ppb	102.044 %	108.611 %
Concentration per Run 3	109.782 %	0.176 ppb	0.007 ppb	105.818 %	110.893 %
Recovery Percentage 1		20.702 %	0.862 %		
Concentration RSD	1.7 %	15.1 %	22.6 %	2.2 %	1.3 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 41 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: CCV Rack 0
Analysis started at: 6/10/2024 11:54:12 AM Vial 9

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	90.900 %	97.125 %	61.600 ppb	60.834 ppb	5,981.563 ppb	5,985.575 ppb	64.972 ppb	6,168.379 ppb	6,165.215 ppb
Concentration per Run 1	92.137 %	95.512 %	61.427 ppb	61.305 ppb	6,270.815 ppb	6,318.991 ppb	67.082 ppb	6,488.246 ppb	6,368.493 ppb
Concentration per Run 2	90.309 %	102.034 %	61.889 ppb	61.018 ppb	5,728.769 ppb	5,743.061 ppb	55.365 ppb	5,984.163 ppb	5,609.441 ppb
Concentration per Run 3	90.255 %	93.829 %	61.484 ppb	60.178 ppb	5,945.103 ppb	5,894.674 ppb	72.467 ppb	6,032.728 ppb	6,517.711 ppb
Recovery Percentage 1			102.667 %	101.389 %	99.693 %	99.760 %	108.286 %	102.806 %	102.754 %
Concentration RSD	1.2 %	4.5 %	0.4 %	1.0 %	4.6 %	5.0 %	13.5 %	4.5 %	7.9 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	105.448 %	106.129 %	63.610 ppb	64.157 ppb	62.491 ppb	6,207.509 ppb	61.698 ppb	64.639 ppb	61.888 ppb
Concentration per Run 1	93.115 %	101.455 %	67.014 ppb	68.779 ppb	66.556 ppb	6,500.466 ppb	65.115 ppb	68.075 ppb	67.024 ppb
Concentration per Run 2	111.423 %	106.713 %	61.198 ppb	62.039 ppb	60.479 ppb	6,088.570 ppb	61.399 ppb	63.511 ppb	58.658 ppb
Concentration per Run 3	111.805 %	110.218 %	62.619 ppb	61.654 ppb	60.438 ppb	6,033.492 ppb	58.581 ppb	62.330 ppb	59.981 ppb
Recovery Percentage 1			106.017 %	106.929 %	104.152 %	103.458 %	102.831 %	107.731 %	103.146 %
Concentration RSD	10.1 %	4.2 %	4.8 %	6.2 %	5.6 %	4.1 %	5.3 %	4.7 %	7.3 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	61.846 ppb	102.912 %	102.828 %	59.259 ppb	60.108 ppb	62.977 ppb	60.424 ppb	97.084 %	98.960 %
Concentration per Run 1	65.326 ppb	103.385 %	97.921 %	62.920 ppb	64.579 ppb	65.887 ppb	63.923 ppb	97.798 %	93.397 %
Concentration per Run 2	59.707 ppb	100.711 %	106.460 %	56.499 ppb	57.849 ppb	61.328 ppb	59.558 ppb	97.505 %	101.527 %
Concentration per Run 3	60.505 ppb	104.639 %	104.101 %	58.358 ppb	57.898 ppb	61.716 ppb	57.791 ppb	95.949 %	101.955 %
Recovery Percentage 1	103.077 %			98.765 %	100.181 %	104.962 %	100.707 %		
Concentration RSD	4.9 %	1.9 %	4.3 %	5.6 %	6.4 %	4.0 %	5.2 %	1.0 %	4.9 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	61.192 ppb	62.142 ppb	100.389 %	104.547 %	62.525 ppb	61.222 ppb	102.021 %	105.249 %	100.796 %
Concentration per Run 1	65.958 ppb	65.661 ppb	99.135 %	98.691 %	66.605 ppb	61.450 ppb	102.323 %	100.903 %	100.405 %
Concentration per Run 2	59.681 ppb	60.476 ppb	100.243 %	107.654 %	60.321 ppb	61.441 ppb	101.339 %	106.756 %	100.699 %
Concentration per Run 3	57.938 ppb	60.289 ppb	101.788 %	107.297 %	60.649 ppb	60.775 ppb	102.401 %	108.087 %	101.283 %
Recovery Percentage 1	101.987 %	103.570 %			104.208 %	102.036 %			
Concentration RSD	6.9 %	4.9 %	1.3 %	4.9 %	5.7 %	0.6 %	0.6 %	3.6 %	0.4 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	109.664 %	58.852 ppb	60.760 ppb	102.886 %	104.350 %
Concentration per Run 1	103.387 %	58.922 ppb	60.612 ppb	103.249 %	98.604 %
Concentration per Run 2	110.755 %	59.168 ppb	60.334 ppb	102.941 %	104.650 %
Concentration per Run 3	114.851 %	58.467 ppb	61.334 ppb	102.469 %	109.797 %
Recovery Percentage 1		98.087 %	101.267 %		
Concentration RSD	5.3 %	0.6 %	0.8 %	0.4 %	5.4 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	42	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/10/2024 11:59:52 AM	Vial	10		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	91.992 %	94.390 %	0.030 ppb	0.210 ppb	-7.901 ppb	0.056 ppb	-1.534 ppb	-13.026 ppb	4.844 ppb
Concentration per Run 1	92.324 %	94.881 %	0.032 ppb	0.221 ppb	-6.313 ppb	0.605 ppb	-2.926 ppb	-10.919 ppb	-0.449 ppb
Concentration per Run 2	92.584 %	88.990 %	0.033 ppb	0.208 ppb	-8.650 ppb	-0.385 ppb	-0.968 ppb	-14.094 ppb	6.105 ppb
Concentration per Run 3	91.067 %	99.299 %	0.026 ppb	0.200 ppb	-8.741 ppb	-0.052 ppb	-0.708 ppb	-14.067 ppb	8.877 ppb
Recovery Percentage 1			6.040 %	2.101 %	-7.901 %	0.080 %	-15.337 %	-13.026 %	4.844 %
Concentration RSD	0.9 %	5.5 %	13.3 %	5.1 %	17.4 %	904.7 %	79.1 %	14.0 %	98.9 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	101.142 %	105.831 %	-0.003 ppb	0.003 ppb	-0.002 ppb	2.330 ppb	0.004 ppb	0.025 ppb	0.000 ppb
Concentration per Run 1	105.520 %	104.814 %	-0.004 ppb	-0.011 ppb	0.003 ppb	3.001 ppb	0.006 ppb	0.049 ppb	-0.009 ppb
Concentration per Run 2	89.320 %	105.366 %	-0.012 ppb	0.007 ppb	0.001 ppb	2.378 ppb	0.003 ppb	0.009 ppb	0.000 ppb
Concentration per Run 3	108.586 %	107.313 %	0.007 ppb	0.014 ppb	-0.009 ppb	1.610 ppb	0.003 ppb	0.016 ppb	0.009 ppb
Recovery Percentage 1			-0.061 %	0.325 %	-0.170 %	4.659 %	0.832 %	1.234 %	0.009 %
Concentration RSD	10.2 %	1.2 %	309.7 %	405.1 %	362.3 %	29.9 %	48.5 %	86.2 %	10,123.2 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	-0.014 ppb	101.205 %	102.620 %	-0.001 ppb	0.052 ppb	0.011 ppb	0.142 ppb	100.129 %	105.045 %
Concentration per Run 1	-0.040 ppb	101.348 %	97.690 %	-0.030 ppb	0.019 ppb	0.018 ppb	0.113 ppb	99.485 %	103.279 %
Concentration per Run 2	-0.032 ppb	100.106 %	103.868 %	0.047 ppb	0.118 ppb	0.002 ppb	0.169 ppb	100.412 %	104.579 %
Concentration per Run 3	0.031 ppb	102.161 %	106.303 %	-0.019 ppb	0.018 ppb	0.014 ppb	0.144 ppb	100.490 %	107.277 %
Recovery Percentage 1	-0.272 %			-0.103 %	1.036 %	2.266 %	7.102 %		
Concentration RSD	287.4 %	1.0 %	4.3 %	8,137.1 %	111.2 %	75.3 %	20.0 %	0.6 %	1.9 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.005 ppb	0.004 ppb	101.785 %	107.036 %	0.304 ppb	0.017 ppb	102.522 %	107.462 %	100.762 %
Concentration per Run 1	0.005 ppb	0.000 ppb	102.558 %	105.217 %	0.257 ppb	0.018 ppb	102.154 %	106.072 %	100.926 %
Concentration per Run 2	0.005 ppb	0.011 ppb	102.513 %	107.519 %	0.302 ppb	0.020 ppb	101.098 %	107.176 %	100.098 %
Concentration per Run 3	0.005 ppb	0.002 ppb	100.283 %	108.373 %	0.354 ppb	0.014 ppb	104.314 %	109.139 %	101.262 %
Recovery Percentage 1	1.272 %				7.611 %	3.490 %			
Concentration RSD	6.5 %	147.4 %	1.3 %	1.5 %	15.9 %	17.8 %	1.6 %	1.4 %	0.6 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	111.456 %	0.163 ppb	0.007 ppb	104.167 %	111.367 %
Concentration per Run 1	109.682 %	0.176 ppb	0.007 ppb	103.821 %	110.442 %
Concentration per Run 2	112.961 %	0.161 ppb	0.008 ppb	103.715 %	110.556 %
Concentration per Run 3	111.725 %	0.151 ppb	0.007 ppb	104.964 %	113.104 %
Recovery Percentage 1		16.284 %	0.728 %		
Concentration RSD	1.5 %	7.6 %	10.6 %	0.7 %	1.4 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	43	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2429922-01d10 6020TL	Rack	1		
Analysis started at:	6/10/2024 12:05:57 PM	Vial	20		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	93.481 %	100.771 %	0.019 ppb	84.076 ppb	924.411 ppb	2,929.780 ppb	-0.113 ppb	827.298 ppb	35,793.708 ppb
Concentration per Run 1	93.987 %	92.356 %	0.018 ppb	84.565 ppb	981.888 ppb	3,084.702 ppb	-1.394 ppb	832.119 ppb	35,595.403 ppb
Concentration per Run 2	93.326 %	104.558 %	0.016 ppb	84.604 ppb	889.084 ppb	2,859.370 ppb	1.058 ppb	807.985 ppb	35,776.249 ppb
Concentration per Run 3	93.130 %	105.400 %	0.022 ppb	83.058 ppb	902.259 ppb	2,845.269 ppb	-0.004 ppb	841.790 ppb	36,009.473 ppb
Concentration RSD	0.5 %	7.2 %	15.2 %	1.0 %	5.4 %	4.6 %	1,087.0 %	2.1 %	0.6 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	107.811 %	105.939 %	0.013 ppb	0.010 ppb	261.051 ppb	6,501.180 ppb	0.133 ppb	0.008 ppb	0.013 ppb
Concentration per Run 1	108.363 %	106.599 %	0.008 ppb	0.025 ppb	268.456 ppb	6,749.666 ppb	0.163 ppb	0.036 ppb	0.007 ppb
Concentration per Run 2	107.299 %	106.794 %	0.003 ppb	0.000 ppb	253.869 ppb	6,436.584 ppb	0.126 ppb	-0.002 ppb	0.022 ppb
Concentration per Run 3	107.771 %	104.425 %	0.028 ppb	0.004 ppb	260.828 ppb	6,317.292 ppb	0.110 ppb	-0.010 ppb	0.010 ppb
Concentration RSD	0.5 %	1.2 %	100.6 %	139.5 %	2.8 %	3.4 %	20.6 %	305.7 %	61.2 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.289 ppb	100.968 %	101.912 %	0.654 ppb	0.037 ppb	287.764 ppb	0.200 ppb	98.648 %	100.109 %
Concentration per Run 1	0.284 ppb	101.247 %	97.227 %	0.700 ppb	0.019 ppb	299.596 ppb	0.204 ppb	97.554 %	96.442 %
Concentration per Run 2	0.295 ppb	101.435 %	103.090 %	0.700 ppb	0.055 ppb	283.366 ppb	0.194 ppb	99.352 %	102.296 %
Concentration per Run 3	0.288 ppb	100.223 %	105.417 %	0.562 ppb	0.037 ppb	280.329 ppb	0.202 ppb	99.039 %	101.588 %
Concentration RSD	1.9 %	0.6 %	4.1 %	12.1 %	48.4 %	3.6 %	2.6 %	1.0 %	3.2 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.001 ppb	0.001 ppb	100.286 %	104.691 %	0.167 ppb	7.554 ppb	98.656 %	104.627 %	100.298 %
Concentration per Run 1	0.001 ppb	0.001 ppb	103.140 %	102.367 %	0.131 ppb	7.564 ppb	96.322 %	101.823 %	99.555 %
Concentration per Run 2	0.001 ppb	0.001 ppb	99.375 %	105.488 %	0.175 ppb	7.553 ppb	99.317 %	104.598 %	101.414 %
Concentration per Run 3	0.000 ppb	0.001 ppb	98.342 %	106.217 %	0.196 ppb	7.544 ppb	100.328 %	107.460 %	99.924 %
Concentration RSD	60.3 %	3.5 %	2.5 %	2.0 %	19.7 %	0.1 %	2.1 %	2.7 %	1.0 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.846 %	0.066 ppb	0.008 ppb	102.427 %	106.220 %
Concentration per Run 1	105.272 %	0.068 ppb	0.007 ppb	102.523 %	102.292 %
Concentration per Run 2	109.502 %	0.068 ppb	0.008 ppb	101.350 %	106.097 %
Concentration per Run 3	108.764 %	0.062 ppb	0.007 ppb	103.408 %	110.272 %
Concentration RSD	2.1 %	5.7 %	2.6 %	1.0 %	3.8 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	44	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2429922-02d10 6020TL	Rack	1		
Analysis started at:	6/10/2024 12:10:37 PM	Vial	21		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	90.014 %	88.850 %	0.036 ppb	44.598 ppb	816.645 ppb	3,862.655 ppb	174.963 ppb	93.331 ppb	27,418.431 ppb
Concentration per Run 1	89.668 %	87.728 %	0.037 ppb	45.563 ppb	848.877 ppb	4,041.519 ppb	182.790 ppb	106.937 ppb	28,958.382 ppb
Concentration per Run 2	90.180 %	91.094 %	0.039 ppb	44.443 ppb	797.353 ppb	3,644.281 ppb	175.209 ppb	89.070 ppb	26,714.364 ppb
Concentration per Run 3	90.195 %	87.728 %	0.034 ppb	43.788 ppb	803.706 ppb	3,902.166 ppb	166.889 ppb	83.984 ppb	26,582.546 ppb
Concentration RSD	0.3 %	2.2 %	7.0 %	2.0 %	3.4 %	5.2 %	4.5 %	12.9 %	4.9 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	101.023 %	97.425 %	0.324 ppb	0.217 ppb	71.346 ppb	356.632 ppb	0.248 ppb	0.480 ppb	0.368 ppb
Concentration per Run 1	92.509 %	92.222 %	0.372 ppb	0.253 ppb	76.315 ppb	385.031 ppb	0.245 ppb	0.473 ppb	0.329 ppb
Concentration per Run 2	103.689 %	98.859 %	0.278 ppb	0.197 ppb	69.867 ppb	348.863 ppb	0.257 ppb	0.498 ppb	0.396 ppb
Concentration per Run 3	106.870 %	101.195 %	0.321 ppb	0.202 ppb	67.857 ppb	336.001 ppb	0.242 ppb	0.470 ppb	0.379 ppb
Concentration RSD	7.5 %	4.8 %	14.5 %	14.4 %	6.2 %	7.1 %	3.3 %	3.2 %	9.4 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	1.154 ppb	101.578 %	99.428 %	0.039 ppb	0.148 ppb	139.049 ppb	0.174 ppb	95.546 %	95.862 %
Concentration per Run 1	1.221 ppb	102.800 %	95.042 %	-0.001 ppb	0.155 ppb	148.007 ppb	0.180 ppb	96.204 %	91.385 %
Concentration per Run 2	1.154 ppb	100.858 %	100.777 %	0.014 ppb	0.204 ppb	135.263 ppb	0.168 ppb	94.795 %	97.734 %
Concentration per Run 3	1.087 ppb	101.077 %	102.466 %	0.105 ppb	0.084 ppb	133.878 ppb	0.173 ppb	95.639 %	98.466 %
Concentration RSD	5.8 %	1.0 %	3.9 %	144.9 %	41.0 %	5.6 %	3.3 %	0.7 %	4.1 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.001 ppb	0.010 ppb	101.679 %	98.810 %	0.113 ppb	7.451 ppb	98.519 %	100.232 %	98.459 %
Concentration per Run 1	0.002 ppb	0.011 ppb	102.692 %	92.109 %	0.085 ppb	7.467 ppb	96.286 %	95.385 %	98.023 %
Concentration per Run 2	0.001 ppb	0.008 ppb	102.171 %	101.102 %	0.113 ppb	7.541 ppb	98.743 %	101.611 %	98.103 %
Concentration per Run 3	0.000 ppb	0.009 ppb	100.173 %	103.220 %	0.140 ppb	7.344 ppb	100.528 %	103.700 %	99.251 %
Concentration RSD	93.2 %	16.6 %	1.3 %	6.0 %	24.3 %	1.3 %	2.2 %	4.3 %	0.7 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	103.070 %	0.046 ppb	0.220 ppb	100.157 %	100.685 %
Concentration per Run 1	96.469 %	0.048 ppb	0.216 ppb	101.086 %	96.110 %
Concentration per Run 2	106.331 %	0.047 ppb	0.220 ppb	99.527 %	102.621 %
Concentration per Run 3	106.411 %	0.042 ppb	0.224 ppb	99.857 %	103.322 %
Concentration RSD	5.5 %	7.4 %	1.8 %	0.8 %	3.9 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	45	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2429922-03d10 6020TL	Rack	1		
Analysis started at:	6/10/2024 12:15:19 PM	Vial	22		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.882 %	89.271 %	0.015 ppb	16.598 ppb	972.647 ppb	5,318.282 ppb	0.081 ppb	796.086 ppb	23,429.895 ppb
Concentration per Run 1	90.545 %	87.517 %	0.016 ppb	16.943 ppb	1,033.537 ppb	5,600.981 ppb	0.463 ppb	851.003 ppb	24,963.681 ppb
Concentration per Run 2	89.460 %	90.042 %	0.011 ppb	16.505 ppb	949.514 ppb	5,168.953 ppb	-1.311 ppb	752.986 ppb	22,868.061 ppb
Concentration per Run 3	89.641 %	90.252 %	0.016 ppb	16.345 ppb	934.889 ppb	5,184.911 ppb	1.090 ppb	784.270 ppb	22,457.944 ppb
Concentration RSD	0.6 %	1.7 %	19.6 %	1.9 %	5.5 %	4.6 %	1,538.6 %	6.3 %	5.7 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	100.494 %	97.236 %	-0.001 ppb	0.063 ppb	0.473 ppb	3.537 ppb	0.019 ppb	0.081 ppb	0.369 ppb
Concentration per Run 1	88.464 %	92.903 %	-0.023 ppb	0.068 ppb	0.522 ppb	3.880 ppb	0.022 ppb	0.133 ppb	0.392 ppb
Concentration per Run 2	106.336 %	99.021 %	0.014 ppb	0.073 ppb	0.452 ppb	4.121 ppb	0.014 ppb	0.061 ppb	0.361 ppb
Concentration per Run 3	106.680 %	99.784 %	0.006 ppb	0.047 ppb	0.446 ppb	2.610 ppb	0.021 ppb	0.049 ppb	0.353 ppb
Concentration RSD	10.4 %	3.9 %	1,934.6 %	22.0 %	8.9 %	23.0 %	23.9 %	56.4 %	5.6 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.552 ppb	100.760 %	99.378 %	0.003 ppb	0.150 ppb	258.846 ppb	0.372 ppb	93.372 %	96.803 %
Concentration per Run 1	0.649 ppb	101.750 %	93.056 %	-0.015 ppb	0.089 ppb	278.315 ppb	0.385 ppb	96.169 %	90.374 %
Concentration per Run 2	0.468 ppb	102.359 %	102.754 %	0.010 ppb	0.211 ppb	245.716 ppb	0.365 ppb	95.362 %	100.817 %
Concentration per Run 3	0.539 ppb	98.170 %	102.325 %	0.013 ppb	0.151 ppb	252.505 ppb	0.365 ppb	88.583 %	99.218 %
Concentration RSD	16.5 %	2.2 %	5.5 %	582.7 %	40.5 %	6.6 %	3.0 %	4.5 %	5.8 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.001 ppb	101.718 %	99.891 %	0.081 ppb	7.075 ppb	99.545 %	102.803 %	98.809 %
Concentration per Run 1	0.000 ppb	0.002 ppb	103.307 %	92.761 %	0.083 ppb	7.108 ppb	97.255 %	95.878 %	97.484 %
Concentration per Run 2	0.000 ppb	0.002 ppb	99.811 %	104.664 %	0.067 ppb	7.097 ppb	101.255 %	106.225 %	101.440 %
Concentration per Run 3	0.000 ppb	0.001 ppb	102.038 %	102.248 %	0.094 ppb	7.021 ppb	100.125 %	106.306 %	97.503 %
Concentration RSD	92.1 %	45.7 %	1.7 %	6.3 %	16.5 %	0.7 %	2.1 %	5.8 %	2.3 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	105.478 %	0.034 ppb	0.006 ppb	100.902 %	101.488 %
Concentration per Run 1	98.294 %	0.032 ppb	0.007 ppb	101.663 %	96.585 %
Concentration per Run 2	108.578 %	0.035 ppb	0.006 ppb	100.747 %	104.364 %
Concentration per Run 3	109.563 %	0.034 ppb	0.007 ppb	100.297 %	103.515 %
Concentration RSD	5.9 %	5.5 %	7.4 %	0.7 %	4.2 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	46	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2429922-04 6020TL	Rack	1		
Analysis started at:	6/10/2024 12:20:01 PM	Vial	23		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	86.062 %	83.871 %	0.016 ppb	58.061 ppb	14,987.695 ppb	39,235.670 ppb	46.618 ppb	4,055.554 ppb	219,338.616 ppb
Concentration per Run 1	86.143 %	78.471 %	0.018 ppb	58.308 ppb	16,132.966 ppb	38,223.945 ppb	46.859 ppb	4,360.339 ppb	232,678.050 ppb
Concentration per Run 2	85.715 %	86.466 %	0.013 ppb	57.786 ppb	14,530.479 ppb	40,015.358 ppb	48.466 ppb	3,962.664 ppb	216,033.183 ppb
Concentration per Run 3	86.329 %	86.676 %	0.016 ppb	58.089 ppb	14,299.640 ppb	39,467.707 ppb	44.528 ppb	3,843.660 ppb	209,304.614 ppb
Concentration RSD	0.4 %	5.6 %	15.6 %	0.5 %	6.7 %	2.3 %	4.2 %	6.7 %	5.5 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	99.254 %	97.625 %	0.152 ppb	0.158 ppb	202.444 ppb	1,325.725 ppb	0.393 ppb	1.053 ppb	0.827 ppb
Concentration per Run 1	90.555 %	94.218 %	0.155 ppb	0.170 ppb	214.306 ppb	1,383.814 ppb	0.429 ppb	1.150 ppb	0.944 ppb
Concentration per Run 2	103.364 %	97.544 %	0.151 ppb	0.183 ppb	199.464 ppb	1,291.659 ppb	0.358 ppb	1.003 ppb	0.760 ppb
Concentration per Run 3	103.844 %	101.114 %	0.149 ppb	0.123 ppb	193.562 ppb	1,301.702 ppb	0.393 ppb	1.007 ppb	0.776 ppb
Concentration RSD	7.6 %	3.5 %	2.0 %	19.9 %	5.3 %	3.8 %	9.0 %	8.0 %	12.3 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	4.864 ppb	99.732 %	97.176 %	0.065 ppb	0.071 ppb	971.559 ppb	0.439 ppb	85.919 %	90.927 %
Concentration per Run 1	5.283 ppb	98.696 %	91.201 %	0.046 ppb	0.135 ppb	1,030.556 ppb	0.460 ppb	84.739 %	84.617 %
Concentration per Run 2	4.783 ppb	99.821 %	100.003 %	0.065 ppb	0.055 ppb	937.891 ppb	0.417 ppb	86.889 %	93.445 %
Concentration per Run 3	4.525 ppb	100.678 %	100.325 %	0.084 ppb	0.024 ppb	946.230 ppb	0.440 ppb	86.130 %	94.718 %
Concentration RSD	7.9 %	1.0 %	5.3 %	29.2 %	80.3 %	5.3 %	4.9 %	1.3 %	6.1 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	-0.001 ppb	0.025 ppb	93.274 %	95.375 %	0.109 ppb	103.050 ppb	95.168 %	97.725 %	97.066 %
Concentration per Run 1	0.000 ppb	0.023 ppb	95.476 %	87.894 %	0.105 ppb	101.414 ppb	95.395 %	92.080 %	98.610 %
Concentration per Run 2	0.000 ppb	0.026 ppb	92.412 %	99.326 %	0.114 ppb	103.230 ppb	96.993 %	100.202 %	96.278 %
Concentration per Run 3	-0.001 ppb	0.024 ppb	91.933 %	98.906 %	0.108 ppb	104.506 ppb	93.116 %	100.893 %	96.310 %
Concentration RSD	118.0 %	6.3 %	2.1 %	6.8 %	4.2 %	1.5 %	2.0 %	5.0 %	1.4 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	101.341 %	0.033 ppb	0.048 ppb	92.373 %	93.270 %
Concentration per Run 1	94.788 %	0.035 ppb	0.046 ppb	90.434 %	87.174 %
Concentration per Run 2	102.172 %	0.034 ppb	0.051 ppb	90.739 %	95.294 %
Concentration per Run 3	107.063 %	0.031 ppb	0.049 ppb	95.947 %	97.341 %
Concentration RSD	6.1 %	5.6 %	5.4 %	3.4 %	5.8 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	47	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2429922-05 6020TL	Rack	1		
Analysis started at:	6/10/2024 12:24:43 PM	Vial	24		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	87.482 %	90.042 %	0.014 ppb	53.373 ppb	3,601.191 ppb	34,947.700 ppb	1.931 ppb	704.358 ppb	189,462.692 ppb
Concentration per Run 1	87.870 %	84.362 %	0.013 ppb	53.925 ppb	3,811.384 ppb	39,122.633 ppb	2.129 ppb	728.606 ppb	194,681.125 ppb
Concentration per Run 2	87.038 %	90.884 %	0.015 ppb	54.161 ppb	3,524.425 ppb	31,219.864 ppb	2.291 ppb	697.823 ppb	189,392.050 ppb
Concentration per Run 3	87.536 %	94.881 %	0.014 ppb	52.033 ppb	3,467.764 ppb	34,500.602 ppb	1.373 ppb	686.646 ppb	184,314.900 ppb
Concentration RSD	0.5 %	5.9 %	6.4 %	2.2 %	5.1 %	11.4 %	25.4 %	3.1 %	2.7 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	96.525 %	98.886 %	0.084 ppb	0.177 ppb	662.445 ppb	322.021 ppb	0.350 ppb	0.920 ppb	1.169 ppb
Concentration per Run 1	90.841 %	96.587 %	0.121 ppb	0.189 ppb	703.032 ppb	342.747 ppb	0.389 ppb	0.996 ppb	1.244 ppb
Concentration per Run 2	91.875 %	99.362 %	0.048 ppb	0.160 ppb	644.908 ppb	324.455 ppb	0.326 ppb	0.885 ppb	1.127 ppb
Concentration per Run 3	106.858 %	100.709 %	0.083 ppb	0.181 ppb	639.395 ppb	298.862 ppb	0.336 ppb	0.879 ppb	1.136 ppb
Concentration RSD	9.3 %	2.1 %	43.5 %	8.6 %	5.3 %	6.8 %	9.7 %	7.2 %	5.6 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	1.174 ppb	100.184 %	97.737 %	0.292 ppb	0.145 ppb	709.110 ppb	0.444 ppb	86.973 %	93.401 %
Concentration per Run 1	1.264 ppb	99.299 %	91.113 %	0.340 ppb	0.163 ppb	761.231 ppb	0.451 ppb	85.687 %	87.734 %
Concentration per Run 2	1.136 ppb	100.944 %	99.384 %	0.284 ppb	0.063 ppb	687.749 ppb	0.466 ppb	85.912 %	94.873 %
Concentration per Run 3	1.123 ppb	100.311 %	102.715 %	0.253 ppb	0.210 ppb	678.350 ppb	0.414 ppb	89.321 %	97.596 %
Concentration RSD	6.7 %	0.8 %	6.1 %	15.1 %	51.7 %	6.4 %	6.0 %	2.3 %	5.5 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	-0.001 ppb	0.015 ppb	95.976 %	98.620 %	0.101 ppb	57.967 ppb	98.889 %	101.127 %	97.521 %
Concentration per Run 1	-0.001 ppb	0.016 ppb	96.245 %	93.059 %	0.099 ppb	57.134 ppb	97.841 %	96.545 %	97.720 %
Concentration per Run 2	-0.001 ppb	0.013 ppb	95.826 %	101.298 %	0.099 ppb	59.651 ppb	98.692 %	101.898 %	98.345 %
Concentration per Run 3	0.000 ppb	0.015 ppb	95.856 %	101.504 %	0.105 ppb	57.116 ppb	100.134 %	104.937 %	96.498 %
Concentration RSD	49.8 %	12.0 %	0.2 %	4.9 %	3.5 %	2.5 %	1.2 %	4.2 %	1.0 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	103.418 %	0.031 ppb	0.023 ppb	96.575 %	97.503 %
Concentration per Run 1	98.101 %	0.032 ppb	0.022 ppb	96.711 %	93.824 %
Concentration per Run 2	105.364 %	0.032 ppb	0.024 ppb	96.243 %	95.663 %
Concentration per Run 3	106.790 %	0.030 ppb	0.023 ppb	96.771 %	103.021 %
Concentration RSD	4.5 %	4.4 %	4.3 %	0.3 %	5.0 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	48	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	WG1931205-2d10 2008TL	Rack	1		
Analysis started at:	6/10/2024 12:29:26 PM	Vial	26		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	92.288 %	90.322 %	4.792 ppb	94.179 ppb	995.797 ppb	971.045 ppb	198.866 ppb	1,000.900 ppb	1,039.352 ppb
Concentration per Run 1	92.947 %	85.624 %	4.785 ppb	94.934 ppb	1,027.747 ppb	1,005.926 ppb	183.517 ppb	994.454 ppb	1,111.428 ppb
Concentration per Run 2	91.813 %	94.039 %	4.810 ppb	95.463 ppb	981.166 ppb	934.546 ppb	199.307 ppb	1,003.256 ppb	1,073.610 ppb
Concentration per Run 3	92.105 %	91.304 %	4.781 ppb	92.140 ppb	978.477 ppb	972.661 ppb	213.774 ppb	1,004.989 ppb	933.017 ppb
Concentration RSD	0.6 %	4.8 %	0.3 %	1.9 %	2.8 %	3.7 %	7.6 %	0.6 %	9.0 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	96.951 %	101.195 %	49.569 ppb	19.961 ppb	50.672 ppb	100.395 ppb	49.778 ppb	51.036 ppb	24.454 ppb
Concentration per Run 1	93.350 %	103.678 %	48.515 ppb	20.035 ppb	50.486 ppb	102.047 ppb	51.059 ppb	49.726 ppb	25.318 ppb
Concentration per Run 2	87.951 %	99.881 %	50.124 ppb	20.154 ppb	51.068 ppb	103.963 ppb	49.121 ppb	52.058 ppb	24.574 ppb
Concentration per Run 3	109.552 %	100.027 %	50.068 ppb	19.695 ppb	50.462 ppb	95.174 ppb	49.154 ppb	51.324 ppb	23.469 ppb
Concentration RSD	11.6 %	2.1 %	1.8 %	1.2 %	0.7 %	4.6 %	2.2 %	2.3 %	3.8 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	47.660 ppb	102.512 %	100.152 %	11.507 ppb	12.071 ppb	95.231 ppb	89.208 ppb	98.220 %	100.788 %
Concentration per Run 1	48.045 ppb	104.023 %	97.619 %	11.767 ppb	13.206 ppb	96.280 ppb	89.431 ppb	98.833 %	98.847 %
Concentration per Run 2	48.266 ppb	99.874 %	99.163 %	11.733 ppb	11.734 ppb	95.505 ppb	90.766 ppb	97.110 %	102.299 %
Concentration per Run 3	46.668 ppb	103.638 %	103.675 %	11.021 ppb	11.274 ppb	93.909 ppb	87.426 ppb	98.717 %	101.219 %
Concentration RSD	1.8 %	2.2 %	3.1 %	3.7 %	8.4 %	1.3 %	1.9 %	1.0 %	1.8 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	4.780 ppb	5.112 ppb	100.544 %	106.296 %	43.581 ppb	210.968 ppb	99.449 %	103.610 %	98.981 %
Concentration per Run 1	4.998 ppb	5.260 ppb	99.373 %	102.823 %	44.907 ppb	208.334 ppb	100.713 %	99.714 %	100.738 %
Concentration per Run 2	4.608 ppb	5.088 ppb	102.287 %	109.570 %	42.541 ppb	211.340 ppb	98.521 %	105.705 %	96.744 %
Concentration per Run 3	4.735 ppb	4.987 ppb	99.972 %	106.496 %	43.295 ppb	213.231 ppb	99.112 %	105.411 %	99.462 %
Concentration RSD	4.2 %	2.7 %	1.5 %	3.2 %	2.8 %	1.2 %	1.1 %	3.3 %	2.1 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.109 %	9.920 ppb	51.975 ppb	101.153 %	105.259 %
Concentration per Run 1	106.191 %	9.554 ppb	52.361 ppb	104.232 %	104.122 %
Concentration per Run 2	107.477 %	9.906 ppb	53.650 ppb	100.871 %	103.847 %
Concentration per Run 3	107.660 %	10.298 ppb	49.913 ppb	98.356 %	107.808 %
Concentration RSD	0.7 %	3.8 %	3.7 %	2.9 %	2.1 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	49	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430592-06 2008TL	Rack	1		
Analysis started at:	6/10/2024 12:34:06 PM	Vial	27		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.009 %	89.621 %	0.041 ppb	23.990 ppb	37,989.362 ppb	3,816.180 ppb	19.354 ppb	1,953.771 ppb	37,190.903 ppb
Concentration per Run 1	89.487 %	86.045 %	0.043 ppb	23.744 ppb	40,174.127 ppb	4,019.691 ppb	19.730 ppb	2,026.603 ppb	38,854.641 ppb
Concentration per Run 2	89.640 %	93.198 %	0.042 ppb	24.307 ppb	36,479.266 ppb	3,741.904 ppb	19.165 ppb	1,946.673 ppb	37,147.845 ppb
Concentration per Run 3	87.901 %	89.621 %	0.039 ppb	23.921 ppb	37,314.694 ppb	3,686.943 ppb	19.167 ppb	1,888.037 ppb	35,570.223 ppb
Concentration RSD	1.1 %	4.0 %	4.3 %	1.2 %	5.1 %	4.7 %	1.7 %	3.6 %	4.4 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	103.450 %	96.733 %	0.388 ppb	0.373 ppb	1,195.938 ppb	7,167.540 ppb	0.610 ppb	0.640 ppb	0.804 ppb
Concentration per Run 1	109.141 %	92.676 %	0.366 ppb	0.437 ppb	1,266.343 ppb	7,643.777 ppb	0.667 ppb	0.742 ppb	0.888 ppb
Concentration per Run 2	90.893 %	97.236 %	0.423 ppb	0.365 ppb	1,169.639 ppb	6,902.817 ppb	0.573 ppb	0.583 ppb	0.774 ppb
Concentration per Run 3	110.316 %	100.287 %	0.375 ppb	0.318 ppb	1,151.833 ppb	6,956.027 ppb	0.590 ppb	0.594 ppb	0.752 ppb
Concentration RSD	10.5 %	4.0 %	7.9 %	16.0 %	5.2 %	5.8 %	8.2 %	13.9 %	9.1 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	6.946 ppb	105.185 %	96.662 %	1.772 ppb	0.305 ppb	210.160 ppb	0.684 ppb	95.914 %	92.885 %
Concentration per Run 1	7.362 ppb	103.206 %	89.585 %	1.883 ppb	0.270 ppb	225.595 ppb	0.758 ppb	97.540 %	87.553 %
Concentration per Run 2	6.900 ppb	106.552 %	100.076 %	1.674 ppb	0.149 ppb	203.215 ppb	0.661 ppb	94.631 %	96.779 %
Concentration per Run 3	6.575 ppb	105.796 %	100.325 %	1.759 ppb	0.496 ppb	201.671 ppb	0.633 ppb	95.571 %	94.324 %
Concentration RSD	5.7 %	1.7 %	6.3 %	5.9 %	57.7 %	6.4 %	9.6 %	1.5 %	5.1 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.012 ppb	0.021 ppb	96.974 %	96.848 %	0.953 ppb	26.438 ppb	100.054 %	98.255 %	98.744 %
Concentration per Run 1	0.013 ppb	0.028 ppb	98.206 %	89.308 %	0.887 ppb	26.683 ppb	99.295 %	91.064 %	99.685 %
Concentration per Run 2	0.013 ppb	0.016 ppb	97.778 %	101.768 %	0.938 ppb	26.059 ppb	100.521 %	100.612 %	98.943 %
Concentration per Run 3	0.009 ppb	0.021 ppb	94.939 %	99.469 %	1.035 ppb	26.573 ppb	100.345 %	103.091 %	97.602 %
Concentration RSD	21.4 %	27.8 %	1.8 %	6.8 %	7.9 %	1.3 %	0.7 %	6.5 %	1.1 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	100.788 %	0.052 ppb	0.331 ppb	97.913 %	96.440 %
Concentration per Run 1	93.969 %	0.054 ppb	0.335 ppb	96.385 %	89.205 %
Concentration per Run 2	103.048 %	0.050 ppb	0.324 ppb	100.439 %	98.247 %
Concentration per Run 3	105.346 %	0.051 ppb	0.334 ppb	96.915 %	101.869 %
Concentration RSD	6.0 %	4.5 %	1.9 %	2.3 %	6.8 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	50	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	WG1931205-3d10 2008TL	Rack	1		
Analysis started at:	6/10/2024 12:38:46 PM	Vial	28		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	91.306 %	85.904 %	4.734 ppb	95.819 ppb	5,271.281 ppb	1,355.283 ppb	212.038 ppb	1,186.285 ppb	4,627.843 ppb
Concentration per Run 1	91.610 %	80.575 %	4.738 ppb	96.162 ppb	5,627.718 ppb	1,440.786 ppb	222.144 ppb	1,242.488 ppb	5,069.201 ppb
Concentration per Run 2	91.869 %	89.200 %	4.660 ppb	95.079 ppb	5,111.585 ppb	1,342.810 ppb	190.196 ppb	1,178.915 ppb	4,611.222 ppb
Concentration per Run 3	90.440 %	87.938 %	4.804 ppb	96.217 ppb	5,074.540 ppb	1,282.254 ppb	223.776 ppb	1,137.452 ppb	4,203.106 ppb
Concentration RSD	0.8 %	5.4 %	1.5 %	0.7 %	5.9 %	5.9 %	8.9 %	4.5 %	9.4 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	91.014 %	99.432 %	49.780 ppb	19.970 ppb	166.883 ppb	791.986 ppb	49.081 ppb	50.883 ppb	24.558 ppb
Concentration per Run 1	89.372 %	96.587 %	52.261 ppb	20.829 ppb	174.693 ppb	824.252 ppb	51.893 ppb	53.007 ppb	25.674 ppb
Concentration per Run 2	92.680 %	100.384 %	50.055 ppb	19.723 ppb	163.269 ppb	768.684 ppb	48.360 ppb	49.202 ppb	23.885 ppb
Concentration per Run 3	90.991 %	101.325 %	47.024 ppb	19.359 ppb	162.686 ppb	783.023 ppb	46.990 ppb	50.441 ppb	24.117 ppb
Concentration RSD	1.8 %	2.5 %	5.3 %	3.8 %	4.1 %	3.6 %	5.2 %	3.8 %	4.0 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	47.614 ppb	103.471 %	98.707 %	11.907 ppb	11.066 ppb	115.855 ppb	89.349 ppb	97.706 %	98.469 %
Concentration per Run 1	49.924 ppb	102.639 %	94.883 %	12.632 ppb	11.110 ppb	123.227 ppb	94.652 ppb	97.160 %	91.906 %
Concentration per Run 2	47.013 ppb	103.733 %	99.712 %	11.769 ppb	11.289 ppb	112.207 ppb	86.091 ppb	98.409 %	103.035 %
Concentration per Run 3	45.904 ppb	104.042 %	101.527 %	11.319 ppb	10.800 ppb	112.131 ppb	87.302 ppb	97.550 %	100.466 %
Concentration RSD	4.4 %	0.7 %	3.5 %	5.6 %	2.2 %	5.5 %	5.2 %	0.7 %	5.9 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	4.690 ppb	5.037 ppb	101.921 %	103.576 %	48.079 ppb	204.891 ppb	101.258 %	102.226 %	100.949 %
Concentration per Run 1	5.018 ppb	5.494 ppb	100.331 %	99.063 %	50.532 ppb	205.016 ppb	101.085 %	96.759 %	98.906 %
Concentration per Run 2	4.563 ppb	4.879 ppb	103.385 %	105.932 %	46.735 ppb	200.399 ppb	103.389 %	103.950 %	102.670 %
Concentration per Run 3	4.490 ppb	4.737 ppb	102.047 %	105.732 %	46.969 ppb	209.259 ppb	99.300 %	105.968 %	101.271 %
Concentration RSD	6.1 %	8.0 %	1.5 %	3.8 %	4.4 %	2.2 %	2.0 %	4.7 %	1.9 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	106.630 %	9.672 ppb	51.947 ppb	100.127 %	100.925 %
Concentration per Run 1	98.292 %	9.565 ppb	52.475 ppb	99.027 %	95.219 %
Concentration per Run 2	110.714 %	9.643 ppb	51.773 ppb	99.642 %	100.982 %
Concentration per Run 3	110.884 %	9.808 ppb	51.594 ppb	101.713 %	106.574 %
Concentration RSD	6.8 %	1.3 %	0.9 %	1.4 %	5.6 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	51	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	WG1931205-4 2008TL	Rack	1		
Analysis started at:	6/10/2024 12:43:26 PM	Vial	29		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	88.055 %	87.167 %	0.036 ppb	23.608 ppb	37,553.682 ppb	3,787.388 ppb	17.996 ppb	1,903.341 ppb	36,718.038 ppb
Concentration per Run 1	88.201 %	85.834 %	0.043 ppb	23.473 ppb	39,288.852 ppb	3,928.594 ppb	19.748 ppb	1,985.760 ppb	39,207.731 ppb
Concentration per Run 2	88.224 %	85.203 %	0.033 ppb	23.723 ppb	37,712.763 ppb	3,834.281 ppb	17.509 ppb	1,930.311 ppb	36,914.144 ppb
Concentration per Run 3	87.739 %	90.463 %	0.031 ppb	23.628 ppb	35,659.430 ppb	3,599.289 ppb	16.731 ppb	1,793.952 ppb	34,032.240 ppb
Concentration RSD	0.3 %	3.3 %	17.9 %	0.5 %	4.8 %	4.5 %	8.7 %	5.2 %	7.1 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	93.253 %	97.901 %	0.257 ppb	0.228 ppb	1,166.245 ppb	6,900.357 ppb	0.486 ppb	0.428 ppb	0.735 ppb
Concentration per Run 1	93.876 %	92.725 %	0.233 ppb	0.240 ppb	1,243.676 ppb	7,374.218 ppb	0.521 ppb	0.521 ppb	0.752 ppb
Concentration per Run 2	93.450 %	97.560 %	0.236 ppb	0.239 ppb	1,151.385 ppb	6,756.967 ppb	0.481 ppb	0.437 ppb	0.698 ppb
Concentration per Run 3	92.432 %	103.419 %	0.302 ppb	0.205 ppb	1,103.675 ppb	6,569.885 ppb	0.456 ppb	0.327 ppb	0.754 ppb
Concentration RSD	0.8 %	5.5 %	15.1 %	8.7 %	6.1 %	6.1 %	6.7 %	22.6 %	4.4 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	5.401 ppb	105.113 %	98.576 %	1.585 ppb	0.299 ppb	201.917 ppb	0.464 ppb	93.744 %	94.074 %
Concentration per Run 1	5.762 ppb	104.392 %	92.646 %	1.663 ppb	0.335 ppb	216.010 ppb	0.462 ppb	92.891 %	88.812 %
Concentration per Run 2	5.273 ppb	104.354 %	99.419 %	1.542 ppb	0.319 ppb	198.510 ppb	0.465 ppb	93.128 %	96.543 %
Concentration per Run 3	5.169 ppb	106.594 %	103.664 %	1.550 ppb	0.242 ppb	191.231 ppb	0.465 ppb	95.214 %	96.866 %
Concentration RSD	5.9 %	1.2 %	5.6 %	4.3 %	16.7 %	6.3 %	0.4 %	1.4 %	4.8 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.001 ppb	0.009 ppb	96.524 %	97.794 %	0.250 ppb	25.833 ppb	99.316 %	100.834 %	98.960 %
Concentration per Run 1	0.001 ppb	0.008 ppb	97.533 %	88.815 %	0.234 ppb	25.941 ppb	96.319 %	95.486 %	97.514 %
Concentration per Run 2	0.001 ppb	0.008 ppb	95.623 %	100.575 %	0.263 ppb	25.786 ppb	99.336 %	103.525 %	99.890 %
Concentration per Run 3	0.000 ppb	0.010 ppb	96.417 %	103.993 %	0.253 ppb	25.772 ppb	102.293 %	103.491 %	99.476 %
Concentration RSD	42.6 %	13.1 %	1.0 %	8.1 %	5.8 %	0.4 %	3.0 %	4.6 %	1.3 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	104.099 %	0.033 ppb	0.210 ppb	96.202 %	96.879 %
Concentration per Run 1	96.446 %	0.036 ppb	0.216 ppb	93.638 %	92.359 %
Concentration per Run 2	107.151 %	0.032 ppb	0.208 ppb	97.835 %	95.755 %
Concentration per Run 3	108.700 %	0.032 ppb	0.207 ppb	97.132 %	102.523 %
Concentration RSD	6.4 %	5.9 %	2.4 %	2.3 %	5.3 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	52	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430592-07 2008TL	Rack	1		
Analysis started at:	6/10/2024 12:48:06 PM	Vial	30		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	88.202 %	85.834 %	0.064 ppb	22.442 ppb	35,092.478 ppb	3,568.083 ppb	19.284 ppb	1,345.006 ppb	33,327.908 ppb
Concentration per Run 1	88.070 %	85.624 %	0.071 ppb	22.732 ppb	35,889.655 ppb	3,595.209 ppb	20.886 ppb	1,342.007 ppb	34,189.011 ppb
Concentration per Run 2	88.351 %	86.045 %	0.058 ppb	22.330 ppb	34,795.683 ppb	3,579.802 ppb	18.647 ppb	1,367.690 ppb	33,197.963 ppb
Concentration per Run 3	88.184 %	85.834 %	0.062 ppb	22.265 ppb	34,592.095 ppb	3,529.238 ppb	18.319 ppb	1,325.321 ppb	32,596.750 ppb
Concentration RSD	0.2 %	0.2 %	10.9 %	1.1 %	2.0 %	1.0 %	7.2 %	1.6 %	2.4 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	93.756 %	103.705 %	0.477 ppb	0.310 ppb	1,176.476 ppb	7,024.343 ppb	0.739 ppb	0.538 ppb	0.557 ppb
Concentration per Run 1	92.814 %	102.883 %	0.509 ppb	0.332 ppb	1,215.364 ppb	7,304.243 ppb	0.762 ppb	0.533 ppb	0.615 ppb
Concentration per Run 2	93.291 %	104.327 %	0.411 ppb	0.322 ppb	1,151.948 ppb	6,888.602 ppb	0.738 ppb	0.497 ppb	0.531 ppb
Concentration per Run 3	95.165 %	103.906 %	0.510 ppb	0.277 ppb	1,162.116 ppb	6,880.184 ppb	0.715 ppb	0.583 ppb	0.525 ppb
Concentration RSD	1.3 %	0.7 %	12.0 %	9.5 %	2.9 %	3.5 %	3.2 %	8.0 %	9.0 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	3.074 ppb	106.335 %	101.712 %	3.225 ppb	0.766 ppb	194.990 ppb	0.298 ppb	94.910 %	97.239 %
Concentration per Run 1	3.293 ppb	104.967 %	95.705 %	3.253 ppb	0.786 ppb	202.903 ppb	0.288 ppb	93.161 %	96.406 %
Concentration per Run 2	3.061 ppb	107.933 %	103.805 %	3.458 ppb	0.745 ppb	187.534 ppb	0.284 ppb	95.809 %	99.178 %
Concentration per Run 3	2.868 ppb	106.106 %	105.627 %	2.964 ppb	0.767 ppb	194.534 ppb	0.321 ppb	95.759 %	96.132 %
Concentration RSD	6.9 %	1.4 %	5.2 %	7.7 %	2.6 %	3.9 %	6.8 %	1.6 %	1.7 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.001 ppb	0.011 ppb	96.570 %	102.407 %	0.132 ppb	23.817 ppb	99.691 %	104.916 %	100.069 %
Concentration per Run 1	0.001 ppb	0.008 ppb	95.026 %	99.214 %	0.111 ppb	23.407 ppb	100.042 %	103.747 %	99.626 %
Concentration per Run 2	0.000 ppb	0.010 ppb	99.078 %	104.104 %	0.132 ppb	23.749 ppb	99.534 %	104.848 %	99.374 %
Concentration per Run 3	0.001 ppb	0.016 ppb	95.607 %	103.903 %	0.153 ppb	24.295 ppb	99.496 %	106.154 %	101.208 %
Concentration RSD	61.7 %	32.9 %	2.3 %	2.7 %	15.9 %	1.9 %	0.3 %	1.1 %	1.0 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.151 %	0.019 ppb	0.439 ppb	97.741 %	102.880 %
Concentration per Run 1	106.481 %	0.018 ppb	0.433 ppb	96.966 %	100.238 %
Concentration per Run 2	107.362 %	0.020 ppb	0.438 ppb	98.188 %	102.394 %
Concentration per Run 3	107.608 %	0.021 ppb	0.447 ppb	98.068 %	106.007 %
Concentration RSD	0.6 %	7.7 %	1.6 %	0.7 %	2.8 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 53 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: CCV Rack 0
Analysis started at: 6/10/2024 12:52:47 PM Vial 9

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.397 %	87.728 %	62.621 ppb	61.995 ppb	6,281.715 ppb	6,271.040 ppb	60.842 ppb	6,388.748 ppb	6,461.363 ppb
Concentration per Run 1	90.058 %	86.886 %	63.361 ppb	62.308 ppb	6,509.711 ppb	6,421.779 ppb	68.788 ppb	6,697.723 ppb	6,929.163 ppb
Concentration per Run 2	89.555 %	88.569 %	62.603 ppb	61.978 ppb	6,078.895 ppb	6,164.265 ppb	53.255 ppb	6,201.381 ppb	6,234.332 ppb
Concentration per Run 3	88.576 %	87.728 %	61.900 ppb	61.700 ppb	6,256.540 ppb	6,227.076 ppb	60.482 ppb	6,267.141 ppb	6,220.596 ppb
Recovery Percentage 1			104.368 %	103.325 %	104.695 %	104.517 %	101.403 %	106.479 %	107.689 %
Concentration RSD	0.8 %	1.0 %	1.2 %	0.5 %	3.4 %	2.1 %	12.8 %	4.2 %	6.3 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	96.821 %	103.343 %	63.602 ppb	64.994 ppb	64.323 ppb	6,438.277 ppb	63.767 ppb	64.111 ppb	62.353 ppb
Concentration per Run 1	89.351 %	98.145 %	67.693 ppb	69.836 ppb	68.513 ppb	6,872.549 ppb	68.848 ppb	68.999 ppb	65.895 ppb
Concentration per Run 2	91.445 %	106.437 %	60.774 ppb	63.062 ppb	62.221 ppb	6,286.546 ppb	62.190 ppb	62.248 ppb	60.929 ppb
Concentration per Run 3	109.667 %	105.447 %	62.340 ppb	62.084 ppb	62.235 ppb	6,155.734 ppb	60.263 ppb	61.086 ppb	60.235 ppb
Recovery Percentage 1			106.003 %	108.323 %	107.205 %	107.305 %	106.279 %	106.851 %	103.922 %
Concentration RSD	11.5 %	4.4 %	5.7 %	6.5 %	5.6 %	5.9 %	7.1 %	6.7 %	5.0 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	62.399 ppb	101.641 %	101.284 %	60.142 ppb	60.810 ppb	63.523 ppb	59.917 ppb	96.752 %	97.583 %
Concentration per Run 1	66.713 ppb	102.829 %	95.557 %	63.155 ppb	64.569 ppb	66.508 ppb	64.655 ppb	96.668 %	92.834 %
Concentration per Run 2	60.698 ppb	100.324 %	102.878 %	59.065 ppb	60.134 ppb	62.214 ppb	58.034 ppb	96.339 %	99.476 %
Concentration per Run 3	59.786 ppb	101.769 %	105.419 %	58.206 ppb	57.727 ppb	61.846 ppb	57.063 ppb	97.250 %	100.437 %
Recovery Percentage 1	103.999 %			100.237 %	101.350 %	105.871 %	99.862 %		
Concentration RSD	6.0 %	1.2 %	5.1 %	4.4 %	5.7 %	4.1 %	6.9 %	0.5 %	4.2 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	61.697 ppb	61.766 ppb	98.433 %	103.458 %	61.125 ppb	62.834 ppb	100.177 %	103.924 %	100.735 %
Concentration per Run 1	65.800 ppb	65.695 ppb	99.849 %	97.460 %	64.968 ppb	61.929 ppb	100.166 %	97.675 %	100.079 %
Concentration per Run 2	58.810 ppb	59.824 ppb	97.232 %	106.072 %	58.943 ppb	63.399 ppb	100.027 %	107.176 %	100.277 %
Concentration per Run 3	60.482 ppb	59.779 ppb	98.219 %	106.842 %	59.465 ppb	63.174 ppb	100.338 %	106.922 %	101.849 %
Recovery Percentage 1	102.829 %	102.943 %			101.875 %	104.723 %			
Concentration RSD	5.9 %	5.5 %	1.3 %	5.0 %	5.5 %	1.3 %	0.2 %	5.2 %	1.0 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.069 %	61.087 ppb	62.677 ppb	99.883 %	101.716 %
Concentration per Run 1	100.279 %	60.025 ppb	61.622 ppb	100.810 %	96.235 %
Concentration per Run 2	109.947 %	62.540 ppb	63.075 ppb	98.916 %	104.614 %
Concentration per Run 3	110.980 %	60.695 ppb	63.332 ppb	99.924 %	104.300 %
Recovery Percentage 1		101.811 %	104.461 %		
Concentration RSD	5.5 %	2.1 %	1.5 %	0.9 %	4.7 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 54
Analysis label: CCB
Analysis started at: 6/10/2024 12:57:32 PM
User name ALPHALAB\ICPMSRQ
Rack 0
Vial 10
Comment <Comment>

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	91.241 %	93.478 %	0.025 ppb	0.271 ppb	-5.929 ppb	-0.397 ppb	-1.905 ppb	-10.339 ppb	0.798 ppb
Concentration per Run 1	92.260 %	90.042 %	0.031 ppb	0.276 ppb	-2.728 ppb	-0.504 ppb	-2.522 ppb	-10.438 ppb	-6.827 ppb
Concentration per Run 2	90.835 %	89.621 %	0.024 ppb	0.278 ppb	-5.079 ppb	-0.215 ppb	-2.132 ppb	-9.380 ppb	2.948 ppb
Concentration per Run 3	90.629 %	100.771 %	0.021 ppb	0.258 ppb	-9.979 ppb	-0.472 ppb	-1.060 ppb	-11.198 ppb	6.275 ppb
Recovery Percentage 1			5.059 %	2.710 %	-5.929 %	-0.567 %	-19.047 %	-10.339 %	0.798 %
Concentration RSD	1.0 %	6.8 %	20.5 %	4.0 %	62.4 %	40.0 %	39.8 %	8.8 %	853.0 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	107.036 %	101.915 %	0.001 ppb	-0.015 ppb	0.051 ppb	3.950 ppb	0.009 ppb	0.007 ppb	-0.005 ppb
Concentration per Run 1	108.476 %	99.151 %	0.027 ppb	-0.008 ppb	0.075 ppb	5.407 ppb	0.013 ppb	0.011 ppb	0.012 ppb
Concentration per Run 2	108.061 %	102.331 %	0.004 ppb	-0.010 ppb	0.035 ppb	3.464 ppb	0.009 ppb	0.022 ppb	-0.006 ppb
Concentration per Run 3	104.572 %	104.263 %	-0.028 ppb	-0.026 ppb	0.043 ppb	2.978 ppb	0.004 ppb	-0.012 ppb	-0.019 ppb
Recovery Percentage 1			0.023 %	-1.472 %	5.103 %	7.899 %	1.780 %	0.350 %	-0.465 %
Concentration RSD	2.0 %	2.5 %	2,361.3 %	66.1 %	40.5 %	32.5 %	51.0 %	245.1 %	334.3 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	-0.006 ppb	101.175 %	102.450 %	0.046 ppb	0.024 ppb	0.007 ppb	0.207 ppb	99.413 %	103.160 %
Concentration per Run 1	-0.029 ppb	100.873 %	98.893 %	0.015 ppb	0.026 ppb	0.007 ppb	0.141 ppb	100.435 %	99.070 %
Concentration per Run 2	0.040 ppb	102.001 %	104.861 %	0.003 ppb	0.050 ppb	0.021 ppb	0.248 ppb	99.479 %	105.317 %
Concentration per Run 3	-0.028 ppb	100.649 %	103.596 %	0.119 ppb	-0.004 ppb	-0.006 ppb	0.232 ppb	98.325 %	105.093 %
Recovery Percentage 1	-0.119 %			9.157 %	0.483 %	1.437 %	10.351 %		
Concentration RSD	665.3 %	0.7 %	3.1 %	139.9 %	111.2 %	188.5 %	28.1 %	1.1 %	3.4 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.006 ppb	0.005 ppb	100.871 %	105.667 %	0.103 ppb	0.013 ppb	99.677 %	105.859 %	98.632 %
Concentration per Run 1	0.004 ppb	0.003 ppb	101.436 %	100.666 %	0.092 ppb	0.010 ppb	99.841 %	101.210 %	98.953 %
Concentration per Run 2	0.009 ppb	0.011 ppb	101.614 %	107.489 %	0.113 ppb	0.015 ppb	101.174 %	108.797 %	97.175 %
Concentration per Run 3	0.004 ppb	0.003 ppb	99.562 %	108.847 %	0.103 ppb	0.013 ppb	98.016 %	107.571 %	99.770 %
Recovery Percentage 1	1.422 %				2.572 %	2.546 %			
Concentration RSD	56.6 %	85.0 %	1.1 %	4.1 %	10.3 %	17.5 %	1.6 %	3.8 %	1.3 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	108.182 %	0.228 ppb	0.007 ppb	103.304 %	106.515 %
Concentration per Run 1	104.119 %	0.251 ppb	0.007 ppb	105.015 %	102.356 %
Concentration per Run 2	111.588 %	0.227 ppb	0.007 ppb	102.282 %	107.268 %
Concentration per Run 3	108.838 %	0.205 ppb	0.006 ppb	102.614 %	109.920 %
Recovery Percentage 1		22.756 %	0.660 %		
Concentration RSD	3.5 %	10.3 %	10.5 %	1.4 %	3.6 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 55
Analysis label: WG1931205-1 2008TL
Analysis started at: 6/10/2024 1:05:36 PM
User name ALPHALAB\ICPMSRQ
Rack 1
Vial 25
Comment <Comment>

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	91.738 %	91.445 %	0.017 ppb	0.261 ppb	-4.069 ppb	1.692 ppb	1.768 ppb	-9.135 ppb	26.112 ppb
Concentration per Run 1	92.254 %	86.045 %	0.018 ppb	0.261 ppb	-1.882 ppb	1.584 ppb	0.752 ppb	-11.663 ppb	33.567 ppb
Concentration per Run 2	91.489 %	93.198 %	0.016 ppb	0.258 ppb	-4.394 ppb	1.547 ppb	1.344 ppb	-10.896 ppb	25.600 ppb
Concentration per Run 3	91.471 %	95.091 %	0.016 ppb	0.263 ppb	-5.930 ppb	1.946 ppb	3.210 ppb	-4.846 ppb	19.169 ppb
Concentration RSD	0.5 %	5.2 %	4.8 %	1.0 %	50.2 %	13.0 %	72.6 %	40.9 %	27.6 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	95.973 %	102.586 %	0.010 ppb	0.008 ppb	0.339 ppb	4.547 ppb	0.037 ppb	0.332 ppb	0.214 ppb
Concentration per Run 1	105.869 %	100.352 %	-0.002 ppb	0.010 ppb	0.340 ppb	6.298 ppb	0.037 ppb	0.458 ppb	0.238 ppb
Concentration per Run 2	92.236 %	103.402 %	0.028 ppb	-0.002 ppb	0.348 ppb	4.346 ppb	0.037 ppb	0.224 ppb	0.221 ppb
Concentration per Run 3	89.813 %	104.003 %	0.004 ppb	0.017 ppb	0.329 ppb	2.995 ppb	0.036 ppb	0.316 ppb	0.185 ppb
Concentration RSD	9.0 %	1.9 %	162.4 %	117.3 %	2.8 %	36.5 %	1.9 %	35.4 %	12.6 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.673 ppb	100.902 %	100.814 %	-0.004 ppb	0.022 ppb	0.026 ppb	0.028 ppb	100.720 %	100.953 %
Concentration per Run 1	0.743 ppb	102.412 %	95.392 %	0.024 ppb	0.030 ppb	0.025 ppb	0.022 ppb	101.785 %	97.728 %
Concentration per Run 2	0.660 ppb	100.353 %	103.751 %	-0.005 ppb	0.016 ppb	0.040 ppb	0.040 ppb	100.787 %	102.229 %
Concentration per Run 3	0.617 ppb	99.941 %	103.299 %	-0.032 ppb	0.018 ppb	0.012 ppb	0.021 ppb	99.588 %	102.902 %
Concentration RSD	9.6 %	1.3 %	4.7 %	636.3 %	35.8 %	53.8 %	39.2 %	1.1 %	2.8 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.002 ppb	0.002 ppb	102.292 %	105.160 %	0.059 ppb	0.043 ppb	101.388 %	104.344 %	98.990 %
Concentration per Run 1	0.001 ppb	0.003 ppb	101.637 %	98.826 %	0.064 ppb	0.045 ppb	101.509 %	99.604 %	98.694 %
Concentration per Run 2	0.002 ppb	0.000 ppb	104.617 %	108.134 %	0.061 ppb	0.044 ppb	100.891 %	106.230 %	98.186 %
Concentration per Run 3	0.002 ppb	0.003 ppb	100.622 %	108.520 %	0.053 ppb	0.042 ppb	101.764 %	107.199 %	100.090 %
Concentration RSD	30.8 %	104.1 %	2.0 %	5.2 %	10.2 %	3.8 %	0.4 %	4.0 %	1.0 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	106.957 %	0.049 ppb	0.021 ppb	102.908 %	105.745 %
Concentration per Run 1	98.918 %	0.049 ppb	0.021 ppb	105.748 %	103.049 %
Concentration per Run 2	108.722 %	0.050 ppb	0.021 ppb	101.337 %	103.531 %
Concentration per Run 3	113.232 %	0.048 ppb	0.020 ppb	101.640 %	110.655 %
Concentration RSD	6.8 %	2.4 %	4.8 %	2.4 %	4.0 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	56	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2429014-01 2008TL	Rack	1		
Analysis started at:	6/10/2024 1:10:16 PM	Vial	31		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	87.937 %	90.463 %	0.012 ppb	106.214 ppb	66,020.399 ppb	5,981.504 ppb	10.601 ppb	9,591.770 ppb	39,420.087 ppb
Concentration per Run 1	88.451 %	80.154 %	0.013 ppb	105.096 ppb	72,155.980 ppb	6,515.184 ppb	11.171 ppb	10,082.781 ppb	41,966.615 ppb
Concentration per Run 2	87.460 %	92.567 %	0.013 ppb	105.782 ppb	64,035.029 ppb	5,914.911 ppb	8.772 ppb	9,530.131 ppb	38,995.521 ppb
Concentration per Run 3	87.898 %	98.668 %	0.011 ppb	107.763 ppb	61,870.186 ppb	5,514.418 ppb	11.859 ppb	9,162.398 ppb	37,298.123 ppb
Concentration RSD	0.6 %	10.4 %	11.2 %	1.3 %	8.2 %	8.4 %	15.3 %	4.8 %	6.0 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	98.725 %	96.030 %	0.176 ppb	0.651 ppb	46.749 ppb	104.220 ppb	0.159 ppb	1.078 ppb	4.854 ppb
Concentration per Run 1	92.700 %	92.790 %	0.243 ppb	0.741 ppb	48.502 ppb	111.192 ppb	0.165 ppb	1.110 ppb	5.005 ppb
Concentration per Run 2	111.067 %	97.025 %	0.139 ppb	0.636 ppb	45.827 ppb	103.957 ppb	0.143 ppb	1.094 ppb	4.720 ppb
Concentration per Run 3	92.406 %	98.274 %	0.147 ppb	0.575 ppb	45.917 ppb	97.511 ppb	0.169 ppb	1.029 ppb	4.838 ppb
Concentration RSD	10.8 %	3.0 %	32.9 %	12.9 %	3.2 %	6.6 %	8.9 %	4.0 %	2.9 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	48.719 ppb	105.855 %	95.271 %	1.282 ppb	0.716 ppb	176.638 ppb	0.639 ppb	93.601 %	92.716 %
Concentration per Run 1	50.583 ppb	105.120 %	90.641 %	1.466 ppb	0.715 ppb	186.847 ppb	0.698 ppb	93.801 %	86.195 %
Concentration per Run 2	47.741 ppb	105.770 %	98.284 %	1.146 ppb	0.745 ppb	169.344 ppb	0.598 ppb	95.226 %	95.281 %
Concentration per Run 3	47.832 ppb	106.675 %	96.887 %	1.234 ppb	0.687 ppb	173.721 ppb	0.621 ppb	91.776 %	96.673 %
Concentration RSD	3.3 %	0.7 %	4.3 %	12.9 %	4.1 %	5.2 %	8.2 %	1.9 %	6.1 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.007 ppb	0.007 ppb	97.775 %	96.458 %	0.371 ppb	7.861 ppb	99.760 %	99.730 %	99.825 %
Concentration per Run 1	0.008 ppb	0.005 ppb	97.437 %	90.547 %	0.383 ppb	7.743 ppb	99.102 %	92.974 %	99.391 %
Concentration per Run 2	0.009 ppb	0.006 ppb	98.941 %	98.609 %	0.378 ppb	7.893 ppb	100.174 %	101.099 %	99.975 %
Concentration per Run 3	0.005 ppb	0.011 ppb	96.946 %	100.218 %	0.351 ppb	7.947 ppb	100.005 %	105.118 %	100.108 %
Concentration RSD	25.6 %	43.7 %	1.1 %	5.4 %	4.7 %	1.3 %	0.6 %	6.2 %	0.4 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	103.653 %	0.043 ppb	0.381 ppb	96.643 %	97.705 %
Concentration per Run 1	97.966 %	0.041 ppb	0.364 ppb	98.177 %	92.968 %
Concentration per Run 2	106.053 %	0.045 ppb	0.392 ppb	95.847 %	97.615 %
Concentration per Run 3	106.939 %	0.044 ppb	0.386 ppb	95.904 %	102.532 %
Concentration RSD	4.8 %	4.9 %	4.0 %	1.4 %	4.9 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	57	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430573-01 2008TL	Rack	1		
Analysis started at:	6/10/2024 1:14:57 PM	Vial	32		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	90.360 %	91.164 %	0.013 ppb	57.605 ppb	14,581.543 ppb	1,078.705 ppb	10.723 ppb	1,617.514 ppb	12,175.459 ppb
Concentration per Run 1	90.326 %	88.149 %	0.006 ppb	57.446 ppb	15,205.466 ppb	1,126.355 ppb	11.889 ppb	1,643.192 ppb	12,429.753 ppb
Concentration per Run 2	90.427 %	87.517 %	0.020 ppb	56.911 ppb	14,769.484 ppb	1,090.751 ppb	8.985 ppb	1,627.428 ppb	12,414.606 ppb
Concentration per Run 3	90.326 %	97.826 %	0.013 ppb	58.457 ppb	13,769.678 ppb	1,019.007 ppb	11.295 ppb	1,581.921 ppb	11,682.019 ppb
Concentration RSD	0.1 %	6.3 %	50.2 %	1.4 %	5.0 %	5.1 %	14.3 %	2.0 %	3.5 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	90.992 %	98.918 %	0.207 ppb	0.043 ppb	115.398 ppb	434.460 ppb	0.345 ppb	1.279 ppb	0.759 ppb
Concentration per Run 1	90.921 %	97.317 %	0.229 ppb	0.060 ppb	119.880 ppb	456.946 ppb	0.349 ppb	1.258 ppb	0.833 ppb
Concentration per Run 2	92.723 %	98.193 %	0.263 ppb	0.035 ppb	114.351 ppb	430.873 ppb	0.352 ppb	1.405 ppb	0.721 ppb
Concentration per Run 3	89.331 %	101.244 %	0.128 ppb	0.033 ppb	111.962 ppb	415.561 ppb	0.334 ppb	1.174 ppb	0.724 ppb
Concentration RSD	1.9 %	2.1 %	33.8 %	35.0 %	3.5 %	4.8 %	2.7 %	9.1 %	8.4 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	13.316 ppb	104.100 %	100.116 %	0.490 ppb	0.045 ppb	58.305 ppb	1.044 ppb	97.915 %	97.972 %
Concentration per Run 1	13.593 ppb	102.429 %	97.441 %	0.478 ppb	0.086 ppb	60.798 ppb	1.147 ppb	99.594 %	93.309 %
Concentration per Run 2	13.108 ppb	103.622 %	101.624 %	0.532 ppb	-0.007 ppb	56.853 ppb	1.012 ppb	100.374 %	100.797 %
Concentration per Run 3	13.246 ppb	106.249 %	101.284 %	0.459 ppb	0.055 ppb	57.266 ppb	0.974 ppb	93.778 %	99.810 %
Concentration RSD	1.9 %	1.9 %	2.3 %	7.8 %	105.9 %	3.7 %	8.7 %	3.7 %	4.2 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.003 ppb	0.010 ppb	98.784 %	102.349 %	0.135 ppb	41.333 ppb	100.922 %	103.954 %	101.187 %
Concentration per Run 1	0.004 ppb	0.012 ppb	100.557 %	97.909 %	0.129 ppb	39.840 ppb	100.702 %	98.318 %	100.949 %
Concentration per Run 2	0.004 ppb	0.005 ppb	97.793 %	103.785 %	0.133 ppb	41.889 ppb	102.215 %	107.269 %	101.732 %
Concentration per Run 3	0.002 ppb	0.013 ppb	98.002 %	105.353 %	0.142 ppb	42.269 ppb	99.851 %	106.277 %	100.880 %
Concentration RSD	32.1 %	44.7 %	1.6 %	3.8 %	5.1 %	3.2 %	1.2 %	4.7 %	0.5 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	105.439 %	0.031 ppb	0.529 ppb	101.716 %	104.114 %
Concentration per Run 1	100.164 %	0.031 ppb	0.520 ppb	101.480 %	99.985 %
Concentration per Run 2	108.497 %	0.030 ppb	0.534 ppb	102.207 %	101.453 %
Concentration per Run 3	107.655 %	0.032 ppb	0.533 ppb	101.462 %	110.906 %
Concentration RSD	4.4 %	2.9 %	1.6 %	0.4 %	5.7 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	58	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	LDR Check - 5xICSA	Rack	1		
Analysis started at:	6/10/2024 1:19:38 PM	Vial	33		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	85.493 %	80.855 %	0.016 ppb	0.878 ppb	46,639.744 ppb	20,089.220 ppb	20,857.228 ppb	19,966.794 ppb	62,230.693 ppb
Concentration per Run 1	86.037 %	78.261 %	0.015 ppb	0.885 ppb	48,494.004 ppb	20,618.937 ppb	21,315.254 ppb	20,402.071 ppb	62,542.658 ppb
Concentration per Run 2	85.104 %	79.102 %	0.011 ppb	0.875 ppb	47,291.609 ppb	20,104.809 ppb	20,520.982 ppb	19,657.976 ppb	60,743.045 ppb
Concentration per Run 3	85.338 %	85.203 %	0.024 ppb	0.873 ppb	44,133.619 ppb	19,543.916 ppb	20,735.447 ppb	19,840.335 ppb	63,406.374 ppb
Concentration RSD	0.6 %	4.7 %	41.3 %	0.7 %	4.8 %	2.7 %	2.0 %	1.9 %	2.2 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	97.240 %	104.782 %	0.004 ppb	0.336 ppb	0.947 ppb	48,902.208 ppb	0.467 ppb	0.605 ppb	0.212 ppb
Concentration per Run 1	106.736 %	104.555 %	-0.004 ppb	0.359 ppb	0.959 ppb	50,182.715 ppb	0.463 ppb	0.601 ppb	0.167 ppb
Concentration per Run 2	92.989 %	105.269 %	0.024 ppb	0.322 ppb	0.975 ppb	48,347.321 ppb	0.477 ppb	0.580 ppb	0.281 ppb
Concentration per Run 3	91.996 %	104.522 %	-0.008 ppb	0.328 ppb	0.909 ppb	48,176.587 ppb	0.461 ppb	0.635 ppb	0.189 ppb
Concentration RSD	8.5 %	0.4 %	433.4 %	5.8 %	3.6 %	2.3 %	1.9 %	4.6 %	28.5 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.533 ppb	105.098 %	101.227 %	0.088 ppb	0.876 ppb	0.467 ppb	400.033 ppb	90.918 %	94.623 %
Concentration per Run 1	0.515 ppb	104.220 %	98.508 %	0.100 ppb	0.814 ppb	0.480 ppb	410.335 ppb	91.603 %	93.394 %
Concentration per Run 2	0.496 ppb	105.904 %	103.182 %	0.104 ppb	1.059 ppb	0.471 ppb	394.895 ppb	89.140 %	95.111 %
Concentration per Run 3	0.588 ppb	105.170 %	101.990 %	0.060 ppb	0.757 ppb	0.451 ppb	394.870 ppb	92.013 %	95.363 %
Concentration RSD	9.1 %	0.8 %	2.4 %	27.6 %	18.3 %	3.2 %	2.2 %	1.7 %	1.1 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.004 ppb	0.057 ppb	93.038 %	98.585 %	0.070 ppb	0.294 ppb	97.141 %	101.472 %	97.187 %
Concentration per Run 1	0.006 ppb	0.059 ppb	91.409 %	96.033 %	0.072 ppb	0.282 ppb	97.396 %	100.336 %	95.249 %
Concentration per Run 2	0.005 ppb	0.051 ppb	92.694 %	100.110 %	0.060 ppb	0.295 ppb	96.314 %	101.157 %	97.473 %
Concentration per Run 3	0.002 ppb	0.060 ppb	95.010 %	99.612 %	0.079 ppb	0.305 ppb	97.712 %	102.924 %	98.838 %
Concentration RSD	41.7 %	8.4 %	2.0 %	2.3 %	13.6 %	3.9 %	0.8 %	1.3 %	1.9 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.048 %	0.026 ppb	0.326 ppb	93.372 %	98.936 %
Concentration per Run 1	106.623 %	0.025 ppb	0.323 ppb	93.027 %	98.087 %
Concentration per Run 2	107.637 %	0.026 ppb	0.327 ppb	93.826 %	98.596 %
Concentration per Run 3	106.883 %	0.026 ppb	0.327 ppb	93.264 %	100.125 %
Concentration RSD	0.5 %	2.8 %	0.8 %	0.4 %	1.1 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	59	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1931997-1 2008TL	Rack	1		
Analysis started at:	6/10/2024 1:26:45 PM	Vial	34		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	90.444 %	87.868 %	0.007 ppb	0.229 ppb	-1.706 ppb	3.126 ppb	0.591 ppb	-6.856 ppb	10.045 ppb
Concentration per Run 1	91.772 %	84.151 %	0.009 ppb	0.244 ppb	0.706 ppb	4.615 ppb	1.275 ppb	-1.601 ppb	7.255 ppb
Concentration per Run 2	90.082 %	92.987 %	0.005 ppb	0.232 ppb	-2.864 ppb	3.240 ppb	-0.185 ppb	-6.176 ppb	19.736 ppb
Concentration per Run 3	89.478 %	86.465 %	0.008 ppb	0.211 ppb	-2.961 ppb	1.524 ppb	0.682 ppb	-12.791 ppb	3.144 ppb
Concentration RSD	1.3 %	5.2 %	29.9 %	7.3 %	122.5 %	49.5 %	124.3 %	82.1 %	86.0 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	104.332 %	100.855 %	-0.014 ppb	-0.025 ppb	0.058 ppb	7.822 ppb	0.002 ppb	-0.017 ppb	0.083 ppb
Concentration per Run 1	103.532 %	97.236 %	-0.023 ppb	-0.025 ppb	0.062 ppb	9.319 ppb	0.003 ppb	-0.030 ppb	0.076 ppb
Concentration per Run 2	106.010 %	101.975 %	-0.007 ppb	-0.038 ppb	0.057 ppb	7.294 ppb	0.002 ppb	0.006 ppb	0.087 ppb
Concentration per Run 3	103.454 %	103.354 %	-0.012 ppb	-0.012 ppb	0.055 ppb	6.854 ppb	0.000 ppb	-0.027 ppb	0.088 ppb
Concentration RSD	1.4 %	3.2 %	56.9 %	51.1 %	6.6 %	16.8 %	85.5 %	116.5 %	8.0 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.618 ppb	99.986 %	100.492 %	-0.010 ppb	-0.002 ppb	-0.002 ppb	0.423 ppb	100.342 %	101.095 %
Concentration per Run 1	0.748 ppb	99.863 %	94.005 %	-0.012 ppb	-0.013 ppb	-0.005 ppb	0.357 ppb	102.062 %	94.564 %
Concentration per Run 2	0.576 ppb	98.911 %	102.189 %	0.033 ppb	-0.037 ppb	0.007 ppb	0.428 ppb	99.665 %	102.627 %
Concentration per Run 3	0.531 ppb	101.183 %	105.281 %	-0.052 ppb	0.044 ppb	-0.007 ppb	0.483 ppb	99.298 %	106.094 %
Concentration RSD	18.5 %	1.1 %	5.8 %	407.5 %	2,075.8 %	411.0 %	15.0 %	1.5 %	5.9 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	-0.001 ppb	0.000 ppb	100.608 %	102.793 %	0.030 ppb	0.024 ppb	100.723 %	103.209 %	98.881 %
Concentration per Run 1	0.000 ppb	0.000 ppb	102.563 %	94.488 %	0.029 ppb	0.024 ppb	101.466 %	98.228 %	101.842 %
Concentration per Run 2	-0.001 ppb	0.001 ppb	98.558 %	108.131 %	0.027 ppb	0.027 ppb	99.121 %	105.129 %	97.738 %
Concentration per Run 3	-0.002 ppb	0.001 ppb	100.704 %	105.759 %	0.036 ppb	0.022 ppb	101.580 %	106.270 %	97.064 %
Concentration RSD	90.5 %	179.1 %	2.0 %	7.1 %	15.1 %	10.9 %	1.4 %	4.2 %	2.6 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	105.848 %	0.017 ppb	0.020 ppb	103.469 %	106.720 %
Concentration per Run 1	99.354 %	0.017 ppb	0.020 ppb	103.092 %	100.031 %
Concentration per Run 2	110.516 %	0.017 ppb	0.020 ppb	103.473 %	109.441 %
Concentration per Run 3	107.676 %	0.018 ppb	0.020 ppb	103.842 %	110.688 %
Concentration RSD	5.5 %	4.4 %	0.2 %	0.4 %	5.5 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	60	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1931997-2d10 2008TL	Rack	1		
Analysis started at:	6/10/2024 1:31:27 PM	Vial	35		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.245 %	88.429 %	4.654 ppb	91.665 ppb	971.427 ppb	943.626 ppb	209.679 ppb	995.362 ppb	972.859 ppb
Concentration per Run 1	89.261 %	80.154 %	4.609 ppb	93.947 ppb	1,040.584 ppb	1,012.138 ppb	221.216 ppb	1,042.112 ppb	1,117.937 ppb
Concentration per Run 2	89.372 %	93.198 %	4.708 ppb	90.720 ppb	929.662 ppb	881.819 ppb	197.359 ppb	968.797 ppb	916.879 ppb
Concentration per Run 3	89.104 %	91.935 %	4.646 ppb	90.328 ppb	944.035 ppb	936.922 ppb	210.462 ppb	975.176 ppb	883.762 ppb
Concentration RSD	0.2 %	8.1 %	1.1 %	2.2 %	6.2 %	6.9 %	5.7 %	4.1 %	13.0 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	97.608 %	97.918 %	49.768 ppb	20.145 ppb	50.092 ppb	105.245 ppb	49.807 ppb	49.359 ppb	24.051 ppb
Concentration per Run 1	87.804 %	95.094 %	51.816 ppb	21.835 ppb	52.720 ppb	113.016 ppb	52.310 ppb	51.303 ppb	25.394 ppb
Concentration per Run 2	100.013 %	97.739 %	48.402 ppb	19.462 ppb	49.575 ppb	103.990 ppb	49.750 ppb	49.827 ppb	23.567 ppb
Concentration per Run 3	105.007 %	100.920 %	49.085 ppb	19.136 ppb	47.981 ppb	98.730 ppb	47.360 ppb	46.948 ppb	23.190 ppb
Concentration RSD	9.1 %	3.0 %	3.6 %	7.3 %	4.8 %	6.9 %	5.0 %	4.5 %	4.9 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	47.454 ppb	100.080 %	96.965 %	11.543 ppb	11.443 ppb	93.058 ppb	87.491 ppb	98.479 %	98.484 %
Concentration per Run 1	49.618 ppb	99.338 %	92.775 %	12.553 ppb	11.827 ppb	96.901 ppb	94.766 ppb	98.920 %	93.484 %
Concentration per Run 2	46.445 ppb	101.071 %	98.501 %	11.042 ppb	11.829 ppb	91.396 ppb	84.842 ppb	98.961 %	100.803 %
Concentration per Run 3	46.299 ppb	99.833 %	99.618 %	11.035 ppb	10.672 ppb	90.877 ppb	82.866 ppb	97.555 %	101.165 %
Concentration RSD	4.0 %	0.9 %	3.8 %	7.6 %	5.8 %	3.6 %	7.3 %	0.8 %	4.4 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	4.683 ppb	5.075 ppb	101.597 %	104.553 %	43.427 ppb	201.455 ppb	100.732 %	101.869 %	98.613 %
Concentration per Run 1	5.091 ppb	5.374 ppb	105.097 %	97.798 %	46.382 ppb	196.030 ppb	100.142 %	97.069 %	99.471 %
Concentration per Run 2	4.503 ppb	4.865 ppb	100.310 %	106.393 %	42.368 ppb	198.246 ppb	101.832 %	101.738 %	98.416 %
Concentration per Run 3	4.456 ppb	4.986 ppb	99.385 %	109.467 %	41.531 ppb	210.090 ppb	100.221 %	106.798 %	97.952 %
Concentration RSD	7.6 %	5.2 %	3.0 %	5.8 %	6.0 %	3.8 %	0.9 %	4.8 %	0.8 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	106.483 %	9.445 ppb	47.487 ppb	101.982 %	104.105 %
Concentration per Run 1	98.726 %	9.390 ppb	51.475 ppb	103.037 %	98.153 %
Concentration per Run 2	108.608 %	9.505 ppb	45.098 ppb	101.963 %	106.252 %
Concentration per Run 3	112.115 %	9.440 ppb	45.888 ppb	100.945 %	107.908 %
Concentration RSD	6.5 %	0.6 %	7.3 %	1.0 %	5.0 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 61 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: L2431889-01 2008TL Rack 1
Analysis started at: 6/10/2024 1:36:10 PM Vial 36

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	86.781 %	82.749 %	0.061 ppb	31.483 ppb	27,875.738 ppb	5,712.716 ppb	440.758 ppb	4,148.652 ppb	12,603.747 ppb
Concentration per Run 1	86.897 %	77.840 %	0.066 ppb	31.596 ppb	29,490.966 ppb	5,958.389 ppb	493.523 ppb	4,306.317 ppb	13,333.664 ppb
Concentration per Run 2	87.427 %	88.780 %	0.056 ppb	31.290 ppb	26,446.272 ppb	5,522.824 ppb	423.071 ppb	4,078.426 ppb	12,485.834 ppb
Concentration per Run 3	86.018 %	81.627 %	0.060 ppb	31.563 ppb	27,689.975 ppb	5,656.935 ppb	405.680 ppb	4,061.214 ppb	11,991.743 ppb
Concentration RSD	0.8 %	6.7 %	8.5 %	0.5 %	5.5 %	3.9 %	10.6 %	3.3 %	5.4 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	93.108 %	98.253 %	1.433 ppb	1.286 ppb	414.895 ppb	9,403.766 ppb	1.590 ppb	1.875 ppb	1.901 ppb
Concentration per Run 1	93.775 %	96.262 %	1.608 ppb	1.305 ppb	427.679 ppb	9,651.471 ppb	1.687 ppb	1.995 ppb	2.098 ppb
Concentration per Run 2	92.564 %	97.966 %	1.282 ppb	1.317 ppb	412.081 ppb	9,231.654 ppb	1.600 ppb	1.887 ppb	1.856 ppb
Concentration per Run 3	92.984 %	100.530 %	1.409 ppb	1.235 ppb	404.924 ppb	9,328.173 ppb	1.483 ppb	1.744 ppb	1.748 ppb
Concentration RSD	0.7 %	2.2 %	11.5 %	3.4 %	2.8 %	2.3 %	6.4 %	6.7 %	9.4 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	32.074 ppb	104.425 %	96.439 %	19.447 ppb	0.472 ppb	79.994 ppb	1.786 ppb	96.374 %	92.827 %
Concentration per Run 1	33.661 ppb	104.333 %	93.269 %	20.388 ppb	0.539 ppb	82.668 ppb	1.923 ppb	96.710 %	88.866 %
Concentration per Run 2	31.277 ppb	103.383 %	97.350 %	19.249 ppb	0.371 ppb	79.953 ppb	1.719 ppb	95.768 %	94.664 %
Concentration per Run 3	31.285 ppb	105.559 %	98.698 %	18.705 ppb	0.505 ppb	77.362 ppb	1.716 ppb	96.644 %	94.951 %
Concentration RSD	4.3 %	1.0 %	2.9 %	4.4 %	18.9 %	3.3 %	6.6 %	0.5 %	3.7 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.003 ppb	0.039 ppb	95.575 %	98.040 %	1.067 ppb	24.179 ppb	101.532 %	100.816 %	101.027 %
Concentration per Run 1	0.003 ppb	0.046 ppb	96.258 %	92.296 %	1.006 ppb	24.025 ppb	102.479 %	96.704 %	101.869 %
Concentration per Run 2	0.003 ppb	0.046 ppb	95.686 %	100.565 %	1.078 ppb	23.918 ppb	102.515 %	101.657 %	101.343 %
Concentration per Run 3	0.003 ppb	0.026 ppb	94.780 %	101.260 %	1.117 ppb	24.595 ppb	99.600 %	104.087 %	99.870 %
Concentration RSD	14.2 %	29.5 %	0.8 %	5.1 %	5.2 %	1.5 %	1.6 %	3.7 %	1.0 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	104.918 %	0.029 ppb	0.758 ppb	99.069 %	100.502 %
Concentration per Run 1	100.398 %	0.028 ppb	0.736 ppb	98.505 %	94.610 %
Concentration per Run 2	107.814 %	0.031 ppb	0.756 ppb	100.423 %	103.176 %
Concentration per Run 3	106.543 %	0.028 ppb	0.782 ppb	98.281 %	103.719 %
Concentration RSD	3.8 %	4.7 %	3.0 %	1.2 %	5.1 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	62	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1931997-3d10 2008TL	Rack	1		
Analysis started at:	6/10/2024 1:40:52 PM	Vial	37		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	88.933 %	91.865 %	5.056 ppb	101.193 ppb	4,058.532 ppb	1,540.449 ppb	252.618 ppb	1,476.364 ppb	2,394.633 ppb
Concentration per Run 1	89.195 %	92.356 %	5.129 ppb	103.300 ppb	4,204.964 ppb	1,612.391 ppb	271.343 ppb	1,545.668 ppb	2,551.451 ppb
Concentration per Run 2	88.963 %	90.673 %	5.002 ppb	99.235 ppb	3,976.776 ppb	1,504.891 ppb	245.104 ppb	1,463.382 ppb	2,410.585 ppb
Concentration per Run 3	88.640 %	92.567 %	5.038 ppb	101.045 ppb	3,993.856 ppb	1,504.063 ppb	241.407 ppb	1,420.041 ppb	2,221.863 ppb
Concentration RSD	0.3 %	1.1 %	1.3 %	2.0 %	3.1 %	4.0 %	6.5 %	4.3 %	6.9 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	101.113 %	97.674 %	52.543 ppb	21.660 ppb	95.332 ppb	1,066.393 ppb	52.105 ppb	54.626 ppb	26.219 ppb
Concentration per Run 1	89.253 %	92.838 %	55.845 ppb	23.021 ppb	101.264 ppb	1,134.344 ppb	55.220 ppb	58.391 ppb	28.237 ppb
Concentration per Run 2	108.393 %	100.141 %	50.046 ppb	21.446 ppb	92.690 ppb	1,021.311 ppb	51.508 ppb	52.125 ppb	25.225 ppb
Concentration per Run 3	105.693 %	100.043 %	51.737 ppb	20.514 ppb	92.043 ppb	1,043.523 ppb	49.587 ppb	53.361 ppb	25.194 ppb
Concentration RSD	10.2 %	4.3 %	5.7 %	5.8 %	5.4 %	5.6 %	5.5 %	6.1 %	6.7 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	53.620 ppb	101.864 %	99.921 %	14.259 ppb	12.132 ppb	108.106 ppb	96.726 ppb	97.061 %	97.981 %
Concentration per Run 1	57.112 ppb	101.651 %	95.131 %	15.074 ppb	12.291 ppb	115.229 ppb	102.771 ppb	96.821 %	92.506 %
Concentration per Run 2	52.224 ppb	101.147 %	102.112 %	13.496 ppb	12.527 ppb	103.969 ppb	93.527 ppb	95.956 %	100.045 %
Concentration per Run 3	51.525 ppb	102.794 %	102.521 %	14.208 ppb	11.577 ppb	105.120 ppb	93.878 ppb	98.405 %	101.393 %
Concentration RSD	5.7 %	0.8 %	4.2 %	5.5 %	4.1 %	5.7 %	5.4 %	1.3 %	4.9 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	5.041 ppb	5.344 ppb	101.829 %	104.042 %	50.355 ppb	216.227 ppb	101.714 %	100.933 %	101.061 %
Concentration per Run 1	5.398 ppb	5.709 ppb	100.982 %	98.627 %	53.798 ppb	217.649 ppb	100.244 %	94.098 %	99.022 %
Concentration per Run 2	4.968 ppb	5.199 ppb	101.845 %	104.556 %	49.582 ppb	215.561 ppb	102.313 %	104.866 %	100.092 %
Concentration per Run 3	4.758 ppb	5.123 ppb	102.661 %	108.942 %	47.685 ppb	215.471 ppb	102.585 %	103.835 %	104.069 %
Concentration RSD	6.5 %	6.0 %	0.8 %	5.0 %	6.2 %	0.6 %	1.3 %	5.9 %	2.6 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	106.329 %	10.282 ppb	55.821 ppb	102.079 %	102.503 %
Concentration per Run 1	97.699 %	10.030 ppb	56.430 ppb	103.645 %	95.282 %
Concentration per Run 2	108.753 %	10.332 ppb	55.740 ppb	101.475 %	105.778 %
Concentration per Run 3	112.534 %	10.483 ppb	55.293 ppb	101.117 %	106.449 %
Concentration RSD	7.2 %	2.2 %	1.0 %	1.3 %	6.1 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	63	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1931997-4 2008TL	Rack	1		
Analysis started at:	6/10/2024 1:45:33 PM	Vial	38		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	87.263 %	81.977 %	0.063 ppb	32.066 ppb	28,675.952 ppb	5,840.889 ppb	493.649 ppb	4,206.400 ppb	12,763.904 ppb
Concentration per Run 1	86.788 %	77.419 %	0.062 ppb	32.203 ppb	30,222.112 ppb	6,169.997 ppb	555.192 ppb	4,489.707 ppb	13,340.065 ppb
Concentration per Run 2	87.902 %	85.834 %	0.061 ppb	32.074 ppb	28,029.050 ppb	5,696.174 ppb	476.785 ppb	4,059.191 ppb	12,581.988 ppb
Concentration per Run 3	87.101 %	82.679 %	0.066 ppb	31.921 ppb	27,776.694 ppb	5,656.495 ppb	448.972 ppb	4,070.303 ppb	12,369.659 ppb
Concentration RSD	0.7 %	5.2 %	4.2 %	0.4 %	4.7 %	4.9 %	11.2 %	5.8 %	4.0 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	92.103 %	99.162 %	1.458 ppb	1.169 ppb	420.365 ppb	9,507.949 ppb	1.609 ppb	1.650 ppb	1.814 ppb
Concentration per Run 1	91.305 %	95.451 %	1.572 ppb	1.290 ppb	450.287 ppb	10,477.376 ppb	1.776 ppb	2.036 ppb	1.958 ppb
Concentration per Run 2	92.151 %	99.995 %	1.414 ppb	1.153 ppb	407.738 ppb	9,111.501 ppb	1.505 ppb	1.457 ppb	1.778 ppb
Concentration per Run 3	92.852 %	102.039 %	1.389 ppb	1.065 ppb	403.069 ppb	8,934.969 ppb	1.546 ppb	1.458 ppb	1.707 ppb
Concentration RSD	0.8 %	3.4 %	6.8 %	9.7 %	6.2 %	8.9 %	9.1 %	20.2 %	7.1 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	32.209 ppb	104.779 %	99.604 %	19.778 ppb	0.643 ppb	78.793 ppb	1.700 ppb	93.060 %	94.723 %
Concentration per Run 1	35.287 ppb	102.190 %	91.629 %	21.514 ppb	0.507 ppb	85.519 ppb	1.700 ppb	90.191 %	88.296 %
Concentration per Run 2	30.865 ppb	105.637 %	103.202 %	18.585 ppb	0.729 ppb	73.948 ppb	1.618 ppb	93.855 %	99.351 %
Concentration per Run 3	30.474 ppb	106.510 %	103.980 %	19.235 ppb	0.692 ppb	76.911 ppb	1.781 ppb	95.134 %	96.521 %
Concentration RSD	8.3 %	2.2 %	6.9 %	7.8 %	18.5 %	7.6 %	4.8 %	2.8 %	6.1 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.002 ppb	0.046 ppb	97.977 %	98.677 %	0.664 ppb	24.218 ppb	100.177 %	101.809 %	100.113 %
Concentration per Run 1	0.002 ppb	0.043 ppb	97.978 %	93.343 %	0.624 ppb	23.673 ppb	99.339 %	96.357 %	99.148 %
Concentration per Run 2	0.002 ppb	0.049 ppb	96.488 %	99.539 %	0.696 ppb	24.709 ppb	99.640 %	104.374 %	100.336 %
Concentration per Run 3	0.001 ppb	0.046 ppb	99.465 %	103.150 %	0.672 ppb	24.272 ppb	101.552 %	104.697 %	100.856 %
Concentration RSD	17.7 %	5.7 %	1.5 %	5.0 %	5.5 %	2.1 %	1.2 %	4.6 %	0.9 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	105.650 %	0.033 ppb	0.755 ppb	99.566 %	99.159 %
Concentration per Run 1	98.863 %	0.035 ppb	0.762 ppb	97.424 %	92.202 %
Concentration per Run 2	109.297 %	0.032 ppb	0.766 ppb	100.012 %	99.832 %
Concentration per Run 3	108.788 %	0.033 ppb	0.736 ppb	101.263 %	105.442 %
Concentration RSD	5.6 %	4.1 %	2.2 %	2.0 %	6.7 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 64 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: L2430095-01 2008TL Rack 1
Analysis started at: 6/10/2024 1:50:13 PM Vial 39

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	84.061 %	82.959 %	0.032 ppb	94.333 ppb	74,798.871 ppb	23,604.376 ppb	303.058 ppb	9,424.919 ppb	116,081.676 ppb
Concentration per Run 1	83.764 %	76.788 %	0.032 ppb	93.736 ppb	80,138.765 ppb	25,128.671 ppb	322.240 ppb	9,664.730 ppb	117,686.240 ppb
Concentration per Run 2	83.829 %	95.091 %	0.033 ppb	96.398 ppb	68,370.099 ppb	22,072.099 ppb	262.636 ppb	9,258.284 ppb	116,718.471 ppb
Concentration per Run 3	84.589 %	76.998 %	0.033 ppb	92.864 ppb	75,887.749 ppb	23,612.357 ppb	324.299 ppb	9,351.745 ppb	113,840.318 ppb
Concentration RSD	0.5 %	12.7 %	2.2 %	2.0 %	8.0 %	6.5 %	11.6 %	2.3 %	1.7 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	102.316 %	95.505 %	2.276 ppb	0.541 ppb	1,099.304 ppb	252.868 ppb	1.230 ppb	2.921 ppb	45.252 ppb
Concentration per Run 1	107.885 %	94.364 %	2.389 ppb	0.571 ppb	1,147.368 ppb	265.850 ppb	1.291 ppb	3.300 ppb	47.501 ppb
Concentration per Run 2	90.145 %	95.061 %	2.212 ppb	0.553 ppb	1,086.715 ppb	248.074 ppb	1.144 ppb	2.740 ppb	44.579 ppb
Concentration per Run 3	108.917 %	97.090 %	2.229 ppb	0.499 ppb	1,063.831 ppb	244.680 ppb	1.255 ppb	2.721 ppb	43.675 ppb
Concentration RSD	10.3 %	1.5 %	4.3 %	7.0 %	3.9 %	4.5 %	6.2 %	11.3 %	4.4 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	16.819 ppb	104.673 %	97.223 %	1.993 ppb	4.251 ppb	475.996 ppb	5.291 ppb	90.672 %	91.532 %
Concentration per Run 1	17.923 ppb	103.710 %	89.219 %	2.139 ppb	3.899 ppb	504.375 ppb	5.809 ppb	88.908 %	87.210 %
Concentration per Run 2	16.330 ppb	105.956 %	98.869 %	1.993 ppb	4.357 ppb	464.840 ppb	5.137 ppb	91.349 %	94.282 %
Concentration per Run 3	16.204 ppb	104.353 %	103.582 %	1.847 ppb	4.496 ppb	458.771 ppb	4.926 ppb	91.758 %	93.104 %
Concentration RSD	5.7 %	1.1 %	7.5 %	7.3 %	7.3 %	5.2 %	8.7 %	1.7 %	4.1 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.061 ppb	0.063 ppb	93.777 %	94.851 %	1.129 ppb	115.470 ppb	98.227 %	99.611 %	99.119 %
Concentration per Run 1	0.073 ppb	0.062 ppb	94.182 %	89.908 %	1.120 ppb	113.845 ppb	97.503 %	91.856 %	97.842 %
Concentration per Run 2	0.055 ppb	0.066 ppb	94.777 %	97.527 %	1.126 ppb	113.957 ppb	98.493 %	102.878 %	99.595 %
Concentration per Run 3	0.055 ppb	0.063 ppb	92.373 %	97.119 %	1.141 ppb	118.608 ppb	98.685 %	104.099 %	99.919 %
Concentration RSD	17.2 %	3.4 %	1.3 %	4.5 %	1.0 %	2.4 %	0.6 %	6.8 %	1.1 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	103.361 %	0.037 ppb	8.170 ppb	93.102 %	94.776 %
Concentration per Run 1	97.241 %	0.037 ppb	8.265 ppb	91.206 %	89.323 %
Concentration per Run 2	106.145 %	0.039 ppb	8.100 ppb	93.867 %	95.593 %
Concentration per Run 3	106.699 %	0.034 ppb	8.146 ppb	94.232 %	99.413 %
Concentration RSD	5.1 %	5.9 %	1.0 %	1.8 %	5.4 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	65	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	6/10/2024 1:54:53 PM	Vial	9		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.236 %	83.801 %	60.878 ppb	61.321 ppb	6,454.410 ppb	6,386.458 ppb	65.166 ppb	6,504.090 ppb	6,476.037 ppb
Concentration per Run 1	89.187 %	77.209 %	61.870 ppb	62.434 ppb	7,002.040 ppb	6,988.679 ppb	65.337 ppb	7,041.841 ppb	7,379.082 ppb
Concentration per Run 2	90.412 %	83.731 %	59.767 ppb	60.373 ppb	6,317.717 ppb	6,263.498 ppb	64.590 ppb	6,315.628 ppb	6,059.650 ppb
Concentration per Run 3	88.109 %	90.463 %	60.996 ppb	61.155 ppb	6,043.474 ppb	5,907.197 ppb	65.570 ppb	6,154.800 ppb	5,989.379 ppb
Recovery Percentage 1			101.463 %	102.201 %	107.574 %	106.441 %	108.609 %	108.401 %	107.934 %
Concentration RSD	1.3 %	7.9 %	1.7 %	1.7 %	7.6 %	8.6 %	0.8 %	7.3 %	12.1 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	101.512 %	98.859 %	66.165 ppb	63.606 ppb	65.403 ppb	6,503.676 ppb	64.868 ppb	65.911 ppb	64.831 ppb
Concentration per Run 1	89.787 %	93.520 %	71.251 ppb	70.051 ppb	71.066 ppb	7,099.679 ppb	71.702 ppb	72.748 ppb	70.438 ppb
Concentration per Run 2	106.805 %	100.563 %	64.413 ppb	61.249 ppb	63.328 ppb	6,242.155 ppb	62.375 ppb	63.283 ppb	62.755 ppb
Concentration per Run 3	107.943 %	102.494 %	62.831 ppb	59.518 ppb	61.816 ppb	6,169.196 ppb	60.526 ppb	61.703 ppb	61.300 ppb
Recovery Percentage 1			110.275 %	106.009 %	109.005 %	108.395 %	108.113 %	109.852 %	108.052 %
Concentration RSD	10.0 %	4.8 %	6.8 %	8.9 %	7.6 %	8.0 %	9.2 %	9.1 %	7.6 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	64.672 ppb	102.034 %	97.185 %	61.311 ppb	63.569 ppb	64.693 ppb	62.520 ppb	99.521 %	95.145 %
Concentration per Run 1	71.052 ppb	99.792 %	89.392 %	66.826 ppb	70.946 ppb	70.006 ppb	69.157 ppb	97.655 %	88.750 %
Concentration per Run 2	62.314 ppb	105.101 %	100.107 %	58.776 ppb	62.965 ppb	63.488 ppb	60.207 ppb	103.954 %	97.877 %
Concentration per Run 3	60.650 ppb	101.208 %	102.058 %	58.330 ppb	56.797 ppb	60.586 ppb	58.197 ppb	96.953 %	98.808 %
Recovery Percentage 1	107.787 %			102.185 %	105.949 %	107.822 %	104.200 %		
Concentration RSD	8.6 %	2.7 %	7.0 %	7.8 %	11.2 %	7.5 %	9.3 %	3.9 %	5.8 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	62.411 ppb	63.599 ppb	100.347 %	99.894 %	63.741 ppb	61.241 ppb	101.819 %	101.751 %	101.030 %
Concentration per Run 1	67.319 ppb	69.769 ppb	98.472 %	91.107 %	70.477 ppb	61.968 ppb	100.724 %	95.357 %	98.314 %
Concentration per Run 2	59.838 ppb	60.143 ppb	102.496 %	104.613 %	60.290 ppb	59.168 ppb	103.363 %	103.776 %	103.156 %
Concentration per Run 3	60.077 ppb	60.884 ppb	100.074 %	103.961 %	60.457 ppb	62.587 ppb	101.370 %	106.119 %	101.619 %
Recovery Percentage 1	104.019 %	105.998 %			106.235 %	102.068 %			
Concentration RSD	6.8 %	8.4 %	2.0 %	7.6 %	9.2 %	3.0 %	1.4 %	5.6 %	2.4 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	105.281 %	59.041 ppb	60.957 ppb	103.028 %	101.762 %
Concentration per Run 1	97.393 %	60.780 ppb	61.513 ppb	99.947 %	93.269 %
Concentration per Run 2	107.851 %	58.731 ppb	60.511 ppb	104.132 %	104.419 %
Concentration per Run 3	110.601 %	57.613 ppb	60.847 ppb	105.004 %	107.599 %
Recovery Percentage 1		98.402 %	101.595 %		
Concentration RSD	6.6 %	2.7 %	0.8 %	2.6 %	7.4 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	66	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/10/2024 2:00:50 PM	Vial	10		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	88.858 %	90.042 %	0.021 ppb	0.298 ppb	-3.528 ppb	0.653 ppb	-1.977 ppb	-10.854 ppb	4.289 ppb
Concentration per Run 1	89.823 %	88.149 %	0.027 ppb	0.315 ppb	-2.218 ppb	0.976 ppb	-1.682 ppb	-12.127 ppb	-3.469 ppb
Concentration per Run 2	89.021 %	90.042 %	0.022 ppb	0.288 ppb	-4.288 ppb	0.428 ppb	-2.120 ppb	-15.014 ppb	6.465 ppb
Concentration per Run 3	87.730 %	91.935 %	0.015 ppb	0.292 ppb	-4.079 ppb	0.555 ppb	-2.129 ppb	-5.421 ppb	9.872 ppb
Recovery Percentage 1			4.260 %	2.982 %	-3.528 %	0.933 %	-19.770 %	-10.854 %	4.289 %
Concentration RSD	1.2 %	2.1 %	29.6 %	4.9 %	32.3 %	43.9 %	12.9 %	45.3 %	161.6 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	103.617 %	98.388 %	0.019 ppb	-0.004 ppb	0.039 ppb	2.389 ppb	0.009 ppb	0.007 ppb	0.000 ppb
Concentration per Run 1	102.500 %	96.019 %	0.034 ppb	0.007 ppb	0.028 ppb	2.303 ppb	0.012 ppb	0.013 ppb	-0.006 ppb
Concentration per Run 2	104.708 %	99.475 %	0.014 ppb	-0.011 ppb	0.053 ppb	2.050 ppb	0.012 ppb	0.023 ppb	0.001 ppb
Concentration per Run 3	103.642 %	99.670 %	0.010 ppb	-0.009 ppb	0.035 ppb	2.813 ppb	0.003 ppb	-0.016 ppb	0.005 ppb
Recovery Percentage 1			0.383 %	-0.400 %	3.864 %	4.778 %	1.806 %	0.332 %	0.019 %
Concentration RSD	1.1 %	2.1 %	67.9 %	246.9 %	33.8 %	16.3 %	54.7 %	303.9 %	3,011.0 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.014 ppb	98.498 %	99.165 %	0.031 ppb	0.024 ppb	0.032 ppb	0.162 ppb	99.004 %	98.630 %
Concentration per Run 1	0.017 ppb	98.633 %	91.863 %	0.086 ppb	-0.033 ppb	0.027 ppb	0.150 ppb	101.453 %	91.652 %
Concentration per Run 2	-0.017 ppb	98.412 %	102.174 %	0.013 ppb	0.085 ppb	0.037 ppb	0.159 ppb	98.707 %	103.108 %
Concentration per Run 3	0.042 ppb	98.449 %	103.459 %	-0.005 ppb	0.020 ppb	0.033 ppb	0.178 ppb	96.851 %	101.132 %
Recovery Percentage 1	0.275 %			6.260 %	0.484 %	6.462 %	8.112 %		
Concentration RSD	217.4 %	0.1 %	6.4 %	155.1 %	244.7 %	14.8 %	8.9 %	2.3 %	6.2 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.011 ppb	0.006 ppb	101.665 %	101.113 %	0.090 ppb	0.015 ppb	101.135 %	101.542 %	100.430 %
Concentration per Run 1	0.022 ppb	0.015 ppb	104.262 %	95.145 %	0.093 ppb	0.013 ppb	100.762 %	96.188 %	98.925 %
Concentration per Run 2	0.006 ppb	0.002 ppb	100.865 %	103.607 %	0.093 ppb	0.016 ppb	101.637 %	103.795 %	101.634 %
Concentration per Run 3	0.005 ppb	0.002 ppb	99.868 %	104.585 %	0.084 ppb	0.015 ppb	101.007 %	104.644 %	100.731 %
Recovery Percentage 1	2.692 %				2.254 %	2.927 %			
Concentration RSD	88.3 %	123.2 %	2.3 %	5.1 %	5.9 %	10.9 %	0.4 %	4.6 %	1.4 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	106.569 %	0.144 ppb	0.006 ppb	103.588 %	104.909 %
Concentration per Run 1	99.498 %	0.159 ppb	0.006 ppb	101.879 %	99.470 %
Concentration per Run 2	110.475 %	0.138 ppb	0.006 ppb	104.436 %	105.631 %
Concentration per Run 3	109.733 %	0.136 ppb	0.006 ppb	104.448 %	109.626 %
Recovery Percentage 1		14.426 %	0.588 %		
Concentration RSD	5.8 %	8.6 %	4.7 %	1.4 %	4.9 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	67	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1931991-1 6020TL	Rack	1		
Analysis started at:	6/10/2024 2:16:05 PM	Vial	40		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	90.870 %	91.445 %	0.006 ppb	0.209 ppb	-1.781 ppb	1.871 ppb	0.706 ppb	-12.376 ppb	15.755 ppb
Concentration per Run 1	92.063 %	87.728 %	0.006 ppb	0.219 ppb	0.944 ppb	2.280 ppb	0.666 ppb	-9.050 ppb	9.468 ppb
Concentration per Run 2	90.498 %	96.143 %	0.005 ppb	0.206 ppb	-3.346 ppb	1.759 ppb	0.869 ppb	-15.677 ppb	22.102 ppb
Concentration per Run 3	90.049 %	90.463 %	0.008 ppb	0.201 ppb	-2.941 ppb	1.573 ppb	0.582 ppb	-12.400 ppb	15.695 ppb
Concentration RSD	1.2 %	4.7 %	22.8 %	4.7 %	133.0 %	19.6 %	21.0 %	26.8 %	40.1 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	100.624 %	104.371 %	-0.002 ppb	-0.025 ppb	0.099 ppb	4.962 ppb	0.004 ppb	-0.014 ppb	0.098 ppb
Concentration per Run 1	92.602 %	103.078 %	0.021 ppb	-0.021 ppb	0.100 ppb	5.560 ppb	0.005 ppb	0.020 ppb	0.083 ppb
Concentration per Run 2	104.776 %	105.042 %	-0.012 ppb	-0.018 ppb	0.082 ppb	4.759 ppb	0.001 ppb	-0.025 ppb	0.095 ppb
Concentration per Run 3	104.495 %	104.993 %	-0.016 ppb	-0.036 ppb	0.116 ppb	4.568 ppb	0.004 ppb	-0.035 ppb	0.115 ppb
Concentration RSD	6.9 %	1.1 %	837.2 %	37.8 %	16.9 %	10.6 %	65.2 %	215.4 %	16.6 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.604 ppb	100.904 %	103.077 %	-0.005 ppb	-0.011 ppb	0.019 ppb	0.028 ppb	101.837 %	102.608 %
Concentration per Run 1	0.665 ppb	102.174 %	98.488 %	-0.010 ppb	-0.004 ppb	0.027 ppb	0.013 ppb	102.714 %	95.735 %
Concentration per Run 2	0.602 ppb	100.453 %	105.787 %	-0.013 ppb	-0.013 ppb	0.015 ppb	0.033 ppb	103.761 %	103.552 %
Concentration per Run 3	0.546 ppb	100.085 %	104.954 %	0.007 ppb	-0.015 ppb	0.014 ppb	0.038 ppb	99.038 %	108.537 %
Concentration RSD	9.9 %	1.1 %	3.9 %	212.6 %	55.3 %	38.1 %	46.8 %	2.4 %	6.3 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.000 ppb	102.253 %	106.844 %	0.036 ppb	0.072 ppb	102.688 %	106.734 %	100.247 %
Concentration per Run 1	0.000 ppb	0.000 ppb	102.126 %	102.232 %	0.029 ppb	0.070 ppb	101.839 %	101.870 %	101.970 %
Concentration per Run 2	0.000 ppb	0.000 ppb	102.530 %	109.527 %	0.036 ppb	0.077 ppb	102.713 %	108.948 %	99.043 %
Concentration per Run 3	0.000 ppb	0.000 ppb	102.101 %	108.773 %	0.044 ppb	0.069 ppb	103.512 %	109.384 %	99.729 %
Concentration RSD	138.3 %	0.0 %	0.2 %	3.8 %	20.0 %	6.2 %	0.8 %	4.0 %	1.5 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	111.895 %	0.024 ppb	0.021 ppb	106.526 %	109.898 %
Concentration per Run 1	103.059 %	0.026 ppb	0.021 ppb	106.911 %	106.441 %
Concentration per Run 2	115.360 %	0.025 ppb	0.020 ppb	105.313 %	111.995 %
Concentration per Run 3	117.265 %	0.023 ppb	0.022 ppb	107.353 %	111.257 %
Concentration RSD	6.9 %	6.0 %	3.2 %	1.0 %	2.7 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	68	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1931991-2d10 6020TL	Rack	1		
Analysis started at:	6/10/2024 2:20:46 PM	Vial	41		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.405 %	83.731 %	4.591 ppb	93.734 ppb	1,037.830 ppb	1,023.242 ppb	197.671 ppb	1,019.395 ppb	963.941 ppb
Concentration per Run 1	89.476 %	78.261 %	4.620 ppb	94.156 ppb	1,116.353 ppb	1,066.412 ppb	199.347 ppb	1,033.263 ppb	1,065.044 ppb
Concentration per Run 2	89.236 %	86.045 %	4.576 ppb	93.992 ppb	1,019.853 ppb	1,024.902 ppb	214.671 ppb	1,041.558 ppb	860.701 ppb
Concentration per Run 3	89.504 %	86.886 %	4.576 ppb	93.053 ppb	977.285 ppb	978.413 ppb	178.994 ppb	983.364 ppb	966.078 ppb
Concentration RSD	0.2 %	5.7 %	0.6 %	0.6 %	6.9 %	4.3 %	9.1 %	3.1 %	10.6 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	103.902 %	97.717 %	49.758 ppb	20.446 ppb	50.120 ppb	101.749 ppb	49.698 ppb	50.833 ppb	23.863 ppb
Concentration per Run 1	105.700 %	96.132 %	52.383 ppb	21.119 ppb	52.090 ppb	104.015 ppb	53.113 ppb	53.009 ppb	25.690 ppb
Concentration per Run 2	102.219 %	96.279 %	49.690 ppb	20.318 ppb	50.128 ppb	102.502 ppb	48.941 ppb	51.488 ppb	23.573 ppb
Concentration per Run 3	103.787 %	100.741 %	47.200 ppb	19.901 ppb	48.141 ppb	98.729 ppb	47.039 ppb	48.002 ppb	22.325 ppb
Concentration RSD	1.7 %	2.7 %	5.2 %	3.0 %	3.9 %	2.7 %	6.3 %	5.1 %	7.1 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	47.372 ppb	99.985 %	95.139 %	12.188 ppb	12.547 ppb	100.146 ppb	93.146 ppb	102.442 %	97.075 %
Concentration per Run 1	50.340 ppb	99.895 %	89.284 %	12.865 ppb	12.846 ppb	103.789 ppb	100.847 ppb	105.452 %	93.112 %
Concentration per Run 2	46.899 ppb	100.680 %	95.987 %	11.895 ppb	12.434 ppb	100.322 ppb	89.743 ppb	102.061 %	98.759 %
Concentration per Run 3	44.876 ppb	99.380 %	100.146 %	11.804 ppb	12.361 ppb	96.327 ppb	88.849 ppb	99.815 %	99.354 %
Concentration RSD	5.8 %	0.7 %	5.8 %	4.8 %	2.1 %	3.7 %	7.2 %	2.8 %	3.5 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	4.676 ppb	5.058 ppb	101.641 %	102.512 %	43.692 ppb	205.268 ppb	103.988 %	102.999 %	103.514 %
Concentration per Run 1	4.977 ppb	5.366 ppb	101.988 %	96.623 %	46.559 ppb	205.720 ppb	105.612 %	97.405 %	102.759 %
Concentration per Run 2	4.528 ppb	4.945 ppb	101.167 %	105.158 %	42.397 ppb	204.204 ppb	103.439 %	105.550 %	102.092 %
Concentration per Run 3	4.524 ppb	4.862 ppb	101.769 %	105.754 %	42.120 ppb	205.879 ppb	102.915 %	106.044 %	105.690 %
Concentration RSD	5.6 %	5.3 %	0.4 %	5.0 %	5.7 %	0.5 %	1.4 %	4.7 %	1.8 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.476 %	9.833 ppb	51.497 ppb	101.976 %	103.576 %
Concentration per Run 1	100.532 %	9.709 ppb	47.432 ppb	101.728 %	98.705 %
Concentration per Run 2	112.786 %	9.766 ppb	53.941 ppb	101.842 %	102.676 %
Concentration per Run 3	109.109 %	10.023 ppb	53.119 ppb	102.359 %	109.347 %
Concentration RSD	5.9 %	1.7 %	6.9 %	0.3 %	5.2 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	69	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2432183-01 6020TL	Rack	1		
Analysis started at:	6/10/2024 2:25:27 PM	Vial	42		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.047 %	84.712 %	0.038 ppb	323.478 ppb	34,078.854 ppb	1,125.944 ppb	29.177 ppb	5,826.593 ppb	12,411.560 ppb
Concentration per Run 1	88.793 %	79.944 %	0.040 ppb	318.275 ppb	35,466.957 ppb	1,197.348 ppb	30.615 ppb	6,010.740 ppb	12,713.225 ppb
Concentration per Run 2	89.238 %	83.731 %	0.036 ppb	320.188 ppb	34,439.068 ppb	1,143.548 ppb	25.126 ppb	5,901.499 ppb	12,355.928 ppb
Concentration per Run 3	89.110 %	90.463 %	0.039 ppb	331.970 ppb	32,330.538 ppb	1,036.937 ppb	31.790 ppb	5,567.539 ppb	12,165.528 ppb
Concentration RSD	0.3 %	6.3 %	4.8 %	2.3 %	4.7 %	7.3 %	12.2 %	4.0 %	2.2 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	108.574 %	96.370 %	0.637 ppb	0.317 ppb	45.366 ppb	271.953 ppb	0.361 ppb	2.791 ppb	25.399 ppb
Concentration per Run 1	116.378 %	94.802 %	0.693 ppb	0.314 ppb	47.831 ppb	292.203 ppb	0.355 ppb	3.004 ppb	27.017 ppb
Concentration per Run 2	114.863 %	95.613 %	0.592 ppb	0.334 ppb	44.801 ppb	268.620 ppb	0.383 ppb	2.792 ppb	25.007 ppb
Concentration per Run 3	94.482 %	98.696 %	0.626 ppb	0.302 ppb	43.468 ppb	255.035 ppb	0.346 ppb	2.577 ppb	24.173 ppb
Concentration RSD	11.3 %	2.1 %	8.0 %	5.2 %	4.9 %	6.9 %	5.4 %	7.7 %	5.8 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	30.300 ppb	104.147 %	96.059 %	15.777 ppb	0.080 ppb	46.335 ppb	4.879 ppb	97.008 %	93.807 %
Concentration per Run 1	31.974 ppb	101.644 %	89.074 %	16.869 ppb	0.031 ppb	48.941 ppb	5.138 ppb	94.731 %	87.608 %
Concentration per Run 2	29.636 ppb	105.854 %	97.826 %	15.545 ppb	0.091 ppb	45.864 ppb	4.741 ppb	97.336 %	95.485 %
Concentration per Run 3	29.289 ppb	104.944 %	101.278 %	14.916 ppb	0.119 ppb	44.201 ppb	4.758 ppb	98.957 %	98.329 %
Concentration RSD	4.8 %	2.1 %	6.5 %	6.3 %	56.1 %	5.2 %	4.6 %	2.2 %	5.9 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.015 ppb	0.040 ppb	99.838 %	97.221 %	1.838 ppb	1.751 ppb	102.781 %	102.074 %	102.776 %
Concentration per Run 1	0.019 ppb	0.045 ppb	100.052 %	91.413 %	1.871 ppb	1.710 ppb	102.512 %	95.773 %	103.577 %
Concentration per Run 2	0.015 ppb	0.035 ppb	99.731 %	99.418 %	1.807 ppb	1.772 ppb	102.235 %	103.830 %	102.116 %
Concentration per Run 3	0.012 ppb	0.039 ppb	99.730 %	100.833 %	1.837 ppb	1.771 ppb	103.598 %	106.617 %	102.634 %
Concentration RSD	21.6 %	13.2 %	0.2 %	5.2 %	1.8 %	2.0 %	0.7 %	5.5 %	0.7 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	106.837 %	0.067 ppb	1.200 ppb	101.983 %	100.348 %
Concentration per Run 1	99.549 %	0.064 ppb	1.180 ppb	102.736 %	94.792 %
Concentration per Run 2	108.868 %	0.069 ppb	1.203 ppb	101.784 %	101.268 %
Concentration per Run 3	112.093 %	0.068 ppb	1.216 ppb	101.429 %	104.984 %
Concentration RSD	6.1 %	3.5 %	1.5 %	0.7 %	5.1 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	70	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1931991-3d10 6020TL	Rack	1		
Analysis started at:	6/10/2024 2:30:08 PM	Vial	43		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	90.508 %	89.972 %	4.553 ppb	124.616 ppb	4,713.748 ppb	1,078.201 ppb	195.841 ppb	1,578.720 ppb	2,170.115 ppb
Concentration per Run 1	90.586 %	88.149 %	4.546 ppb	126.494 ppb	4,863.805 ppb	1,116.558 ppb	206.953 ppb	1,612.623 ppb	2,236.901 ppb
Concentration per Run 2	90.004 %	89.411 %	4.517 ppb	124.432 ppb	4,678.705 ppb	1,079.559 ppb	195.362 ppb	1,527.662 ppb	2,222.066 ppb
Concentration per Run 3	90.934 %	92.356 %	4.596 ppb	122.923 ppb	4,598.734 ppb	1,038.486 ppb	185.209 ppb	1,595.874 ppb	2,051.378 ppb
Concentration RSD	0.5 %	2.4 %	0.9 %	1.4 %	2.9 %	3.6 %	5.6 %	2.9 %	4.8 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	107.463 %	98.967 %	47.751 ppb	19.819 ppb	53.840 ppb	127.105 ppb	48.203 ppb	50.608 ppb	26.893 ppb
Concentration per Run 1	107.564 %	98.356 %	49.492 ppb	20.400 ppb	55.392 ppb	132.880 ppb	50.700 ppb	51.889 ppb	28.167 ppb
Concentration per Run 2	106.933 %	98.826 %	48.819 ppb	19.583 ppb	53.735 ppb	128.160 ppb	46.559 ppb	50.228 ppb	26.320 ppb
Concentration per Run 3	107.893 %	99.719 %	44.941 ppb	19.475 ppb	52.392 ppb	120.274 ppb	47.349 ppb	49.706 ppb	26.192 ppb
Concentration RSD	0.5 %	0.7 %	5.1 %	2.6 %	2.8 %	5.0 %	4.6 %	2.3 %	4.1 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	50.066 ppb	101.347 %	98.734 %	13.620 ppb	12.169 ppb	102.421 ppb	94.870 ppb	99.296 %	96.916 %
Concentration per Run 1	52.031 ppb	104.541 %	94.172 %	14.409 ppb	11.947 ppb	106.325 ppb	99.682 ppb	99.364 %	93.490 %
Concentration per Run 2	49.683 ppb	100.989 %	99.114 %	13.525 ppb	12.483 ppb	102.260 ppb	92.979 ppb	100.569 %	98.727 %
Concentration per Run 3	48.485 ppb	98.510 %	102.916 %	12.925 ppb	12.078 ppb	98.677 ppb	91.950 ppb	97.954 %	98.531 %
Concentration RSD	3.6 %	3.0 %	4.4 %	5.5 %	2.3 %	3.7 %	4.4 %	1.3 %	3.1 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	4.608 ppb	4.976 ppb	102.358 %	104.180 %	44.743 ppb	197.688 ppb	102.146 %	103.321 %	101.604 %
Concentration per Run 1	4.862 ppb	5.166 ppb	103.155 %	99.243 %	47.320 ppb	204.554 ppb	100.554 %	96.645 %	100.571 %
Concentration per Run 2	4.456 ppb	4.838 ppb	101.943 %	105.709 %	43.687 ppb	196.374 ppb	104.074 %	108.320 %	102.174 %
Concentration per Run 3	4.507 ppb	4.923 ppb	101.977 %	107.589 %	43.223 ppb	192.135 ppb	101.812 %	104.999 %	102.066 %
Concentration RSD	4.8 %	3.4 %	0.7 %	4.2 %	5.0 %	3.2 %	1.7 %	5.8 %	0.9 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	106.751 %	9.877 ppb	53.429 ppb	102.528 %	105.381 %
Concentration per Run 1	103.146 %	9.614 ppb	52.753 ppb	103.688 %	99.249 %
Concentration per Run 2	108.137 %	10.057 ppb	54.071 ppb	101.769 %	105.354 %
Concentration per Run 3	108.969 %	9.960 ppb	53.462 ppb	102.126 %	111.538 %
Concentration RSD	3.0 %	2.4 %	1.2 %	1.0 %	5.8 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	71	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1931991-4 6020TL	Rack	1		
Analysis started at:	6/10/2024 2:34:49 PM	Vial	44		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.133 %	88.850 %	0.039 ppb	335.740 ppb	34,640.304 ppb	1,130.289 ppb	28.633 ppb	6,049.439 ppb	12,442.449 ppb
Concentration per Run 1	88.616 %	84.572 %	0.038 ppb	334.039 ppb	35,713.280 ppb	1,173.899 ppb	26.569 ppb	6,230.039 ppb	12,977.701 ppb
Concentration per Run 2	88.927 %	94.250 %	0.040 ppb	338.723 ppb	33,563.273 ppb	1,088.185 ppb	25.918 ppb	5,993.107 ppb	12,298.990 ppb
Concentration per Run 3	89.857 %	87.728 %	0.039 ppb	334.459 ppb	34,644.357 ppb	1,128.782 ppb	33.413 ppb	5,925.171 ppb	12,050.656 ppb
Concentration RSD	0.7 %	5.6 %	2.4 %	0.8 %	3.1 %	3.8 %	14.5 %	2.6 %	3.9 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	101.601 %	96.425 %	0.690 ppb	0.198 ppb	46.422 ppb	260.659 ppb	0.374 ppb	2.987 ppb	25.175 ppb
Concentration per Run 1	107.731 %	93.942 %	0.675 ppb	0.198 ppb	49.156 ppb	272.675 ppb	0.432 ppb	3.309 ppb	26.923 ppb
Concentration per Run 2	100.151 %	94.331 %	0.783 ppb	0.197 ppb	45.922 ppb	266.130 ppb	0.352 ppb	2.887 ppb	24.559 ppb
Concentration per Run 3	96.921 %	101.001 %	0.610 ppb	0.200 ppb	44.189 ppb	243.172 ppb	0.337 ppb	2.763 ppb	24.044 ppb
Concentration RSD	5.5 %	4.1 %	12.7 %	0.9 %	5.4 %	5.9 %	13.7 %	9.6 %	6.1 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	30.684 ppb	106.436 %	98.486 %	16.044 ppb	0.065 ppb	46.331 ppb	5.005 ppb	96.007 %	94.498 %
Concentration per Run 1	32.936 ppb	105.430 %	91.907 %	17.245 ppb	0.058 ppb	49.819 ppb	5.381 ppb	96.985 %	89.600 %
Concentration per Run 2	29.765 ppb	107.492 %	102.111 %	15.385 ppb	0.013 ppb	45.057 ppb	4.871 ppb	94.447 %	95.421 %
Concentration per Run 3	29.352 ppb	106.386 %	101.440 %	15.500 ppb	0.125 ppb	44.116 ppb	4.765 ppb	96.589 %	98.471 %
Concentration RSD	6.4 %	1.0 %	5.8 %	6.5 %	85.9 %	6.6 %	6.6 %	1.4 %	4.8 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.017 ppb	0.041 ppb	97.585 %	97.334 %	1.815 ppb	1.805 ppb	101.657 %	101.978 %	100.604 %
Concentration per Run 1	0.018 ppb	0.039 ppb	97.314 %	91.232 %	1.790 ppb	1.784 ppb	100.585 %	96.391 %	98.040 %
Concentration per Run 2	0.013 ppb	0.034 ppb	99.591 %	96.856 %	1.826 ppb	1.773 ppb	101.129 %	102.384 %	100.821 %
Concentration per Run 3	0.022 ppb	0.051 ppb	95.852 %	103.914 %	1.829 ppb	1.858 ppb	103.256 %	107.160 %	102.950 %
Concentration RSD	25.9 %	20.0 %	1.9 %	6.5 %	1.2 %	2.6 %	1.4 %	5.3 %	2.4 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	105.167 %	0.062 ppb	1.233 ppb	100.819 %	101.041 %
Concentration per Run 1	99.765 %	0.065 ppb	1.227 ppb	98.805 %	97.745 %
Concentration per Run 2	107.023 %	0.060 ppb	1.225 ppb	101.098 %	100.649 %
Concentration per Run 3	108.712 %	0.061 ppb	1.245 ppb	102.555 %	104.728 %
Concentration RSD	4.5 %	4.3 %	0.9 %	1.9 %	3.5 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 72
Analysis label: wg1931991-5d10 6020TL
Analysis started at: 6/10/2024 2:39:31 PM
User name ALPHALAB\ICPMSRQ
Rack 1
Vial 45
Comment <Comment>

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	88.617 %	90.673 %	46.701 ppb	82.952 ppb	8,538.363 ppb	4,653.851 ppb	53.527 ppb	5,266.557 ppb	6,129.941 ppb
Concentration per Run 1	89.115 %	83.941 %	47.266 ppb	83.889 ppb	9,134.789 ppb	4,933.867 ppb	59.998 ppb	5,402.440 ppb	6,387.236 ppb
Concentration per Run 2	88.745 %	99.930 %	46.506 ppb	82.965 ppb	8,076.562 ppb	4,432.640 ppb	51.169 ppb	5,233.463 ppb	6,044.195 ppb
Concentration per Run 3	87.992 %	88.149 %	46.333 ppb	82.001 ppb	8,403.738 ppb	4,595.047 ppb	49.416 ppb	5,163.768 ppb	5,958.390 ppb
Concentration RSD	0.6 %	9.1 %	1.1 %	1.1 %	6.3 %	5.5 %	10.6 %	2.3 %	3.7 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	96.618 %	101.260 %	48.810 ppb	48.436 ppb	52.839 ppb	4,860.243 ppb	47.902 ppb	48.438 ppb	49.508 ppb
Concentration per Run 1	90.498 %	98.778 %	50.248 ppb	49.412 ppb	54.591 ppb	5,089.541 ppb	48.829 ppb	50.275 ppb	51.966 ppb
Concentration per Run 2	92.002 %	99.784 %	49.180 ppb	49.294 ppb	52.786 ppb	4,786.483 ppb	47.269 ppb	48.985 ppb	49.279 ppb
Concentration per Run 3	107.354 %	105.220 %	47.001 ppb	46.601 ppb	51.141 ppb	4,704.705 ppb	47.609 ppb	46.053 ppb	47.279 ppb
Concentration RSD	9.7 %	3.4 %	3.4 %	3.3 %	3.3 %	4.2 %	1.7 %	4.5 %	4.8 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	50.051 ppb	101.752 %	99.624 %	47.681 ppb	46.219 ppb	53.333 ppb	46.909 ppb	98.747 %	97.197 %
Concentration per Run 1	52.745 ppb	101.597 %	96.699 %	49.166 ppb	48.882 ppb	54.763 ppb	49.780 ppb	97.033 %	90.991 %
Concentration per Run 2	48.923 ppb	102.964 %	101.971 %	46.844 ppb	46.982 ppb	52.661 ppb	45.596 ppb	99.637 %	99.688 %
Concentration per Run 3	48.486 ppb	100.694 %	100.203 %	47.034 ppb	42.795 ppb	52.574 ppb	45.352 ppb	99.571 %	100.912 %
Concentration RSD	4.7 %	1.1 %	2.7 %	2.7 %	6.7 %	2.3 %	5.3 %	1.5 %	5.6 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	1.682 ppb	46.845 ppb	100.157 %	100.861 %	47.537 ppb	45.501 ppb	103.131 %	102.671 %	102.704 %
Concentration per Run 1	1.744 ppb	49.816 ppb	99.292 %	95.920 %	49.560 ppb	44.926 ppb	103.564 %	97.520 %	103.698 %
Concentration per Run 2	1.664 ppb	45.360 ppb	102.003 %	103.518 %	46.189 ppb	44.818 ppb	103.450 %	103.917 %	101.829 %
Concentration per Run 3	1.637 ppb	45.359 ppb	99.176 %	103.147 %	46.861 ppb	46.759 ppb	102.380 %	106.576 %	102.584 %
Concentration RSD	3.3 %	5.5 %	1.6 %	4.2 %	3.8 %	2.4 %	0.6 %	4.5 %	0.9 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	106.338 %	44.248 ppb	42.375 ppb	101.961 %	102.203 %
Concentration per Run 1	101.068 %	43.511 ppb	41.660 ppb	102.675 %	97.151 %
Concentration per Run 2	108.664 %	44.829 ppb	41.766 ppb	101.582 %	103.411 %
Concentration per Run 3	109.282 %	44.404 ppb	43.698 ppb	101.627 %	106.048 %
Concentration RSD	4.3 %	1.5 %	2.7 %	0.6 %	4.5 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 73
Analysis label: wg1931991-6d5 6020TL
Analysis started at: 6/10/2024 2:44:13 PM
User name ALPHALAB\ICPMSRQ
Rack 1
Vial 46
Comment <Comment>

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	90.474 %	84.081 %	0.026 ppb	65.490 ppb	8,001.035 ppb	231.708 ppb	4.465 ppb	1,221.294 ppb	2,574.144 ppb
Concentration per Run 1	90.496 %	75.105 %	0.028 ppb	65.905 ppb	8,700.982 ppb	247.390 ppb	2.904 ppb	1,293.093 ppb	2,557.923 ppb
Concentration per Run 2	90.488 %	88.569 %	0.027 ppb	64.904 ppb	7,629.031 ppb	221.199 ppb	4.877 ppb	1,183.433 ppb	2,566.899 ppb
Concentration per Run 3	90.439 %	88.569 %	0.022 ppb	65.662 ppb	7,673.093 ppb	226.534 ppb	5.613 ppb	1,187.356 ppb	2,597.610 ppb
Concentration RSD	0.0 %	9.2 %	12.7 %	0.8 %	7.6 %	6.0 %	31.4 %	5.1 %	0.8 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	106.628 %	96.874 %	0.156 ppb	0.061 ppb	9.518 ppb	59.503 ppb	0.081 ppb	0.563 ppb	5.204 ppb
Concentration per Run 1	105.721 %	94.250 %	0.145 ppb	0.085 ppb	9.938 ppb	61.122 ppb	0.091 ppb	0.577 ppb	5.605 ppb
Concentration per Run 2	106.961 %	97.317 %	0.159 ppb	0.064 ppb	9.267 ppb	56.513 ppb	0.083 ppb	0.544 ppb	5.019 ppb
Concentration per Run 3	107.203 %	99.053 %	0.165 ppb	0.034 ppb	9.348 ppb	60.874 ppb	0.070 ppb	0.568 ppb	4.987 ppb
Concentration RSD	0.7 %	2.5 %	6.7 %	42.4 %	3.9 %	4.4 %	13.2 %	3.1 %	6.7 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	6.398 ppb	102.759 %	98.365 %	3.318 ppb	0.088 ppb	9.366 ppb	1.106 ppb	98.510 %	97.519 %
Concentration per Run 1	6.671 ppb	101.835 %	94.535 %	3.683 ppb	0.162 ppb	9.620 ppb	1.147 ppb	96.963 %	92.747 %
Concentration per Run 2	6.271 ppb	105.167 %	100.241 %	3.148 ppb	0.014 ppb	9.402 ppb	1.124 ppb	98.439 %	99.536 %
Concentration per Run 3	6.251 ppb	101.274 %	100.319 %	3.123 ppb	0.088 ppb	9.075 ppb	1.047 ppb	100.130 %	100.273 %
Concentration RSD	3.7 %	2.0 %	3.4 %	9.5 %	84.2 %	2.9 %	4.8 %	1.6 %	4.3 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.002 ppb	0.015 ppb	103.062 %	103.177 %	0.357 ppb	0.356 ppb	103.304 %	102.679 %	102.085 %
Concentration per Run 1	0.002 ppb	0.017 ppb	103.497 %	96.994 %	0.353 ppb	0.347 ppb	103.074 %	96.876 %	100.955 %
Concentration per Run 2	0.002 ppb	0.013 ppb	104.359 %	106.220 %	0.329 ppb	0.372 ppb	101.675 %	106.062 %	101.138 %
Concentration per Run 3	0.002 ppb	0.014 ppb	101.331 %	106.318 %	0.388 ppb	0.349 ppb	105.164 %	105.101 %	104.161 %
Concentration RSD	15.4 %	12.1 %	1.5 %	5.2 %	8.3 %	3.9 %	1.7 %	4.9 %	1.8 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.797 %	0.323 ppb	0.240 ppb	105.833 %	106.176 %
Concentration per Run 1	100.764 %	0.348 ppb	0.235 ppb	106.945 %	99.787 %
Concentration per Run 2	111.679 %	0.320 ppb	0.241 ppb	106.146 %	107.344 %
Concentration per Run 3	110.947 %	0.302 ppb	0.245 ppb	104.408 %	111.397 %
Concentration RSD	5.7 %	7.2 %	2.0 %	1.2 %	5.5 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	74	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2432183-02 6020TL	Rack	1		
Analysis started at:	6/10/2024 2:48:55 PM	Vial	47		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	87.926 %	90.883 %	0.020 ppb	265.772 ppb	67,756.523 ppb	2,805.884 ppb	12.525 ppb	5,726.000 ppb	10,930.572 ppb
Concentration per Run 1	87.791 %	83.520 %	0.020 ppb	264.586 ppb	72,397.144 ppb	2,973.432 ppb	16.091 ppb	5,930.057 ppb	11,333.729 ppb
Concentration per Run 2	88.280 %	91.935 %	0.017 ppb	264.829 ppb	66,016.442 ppb	2,751.632 ppb	12.539 ppb	5,675.678 ppb	10,783.984 ppb
Concentration per Run 3	87.707 %	97.195 %	0.024 ppb	267.900 ppb	64,855.982 ppb	2,692.587 ppb	8.946 ppb	5,572.266 ppb	10,674.002 ppb
Concentration RSD	0.4 %	7.6 %	15.7 %	0.7 %	6.0 %	5.3 %	28.5 %	3.2 %	3.2 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	101.295 %	95.159 %	12.991 ppb	0.455 ppb	40.397 ppb	99.261 ppb	0.019 ppb	0.076 ppb	1.270 ppb
Concentration per Run 1	111.994 %	93.017 %	13.020 ppb	0.503 ppb	42.455 ppb	103.067 ppb	0.017 ppb	0.068 ppb	1.386 ppb
Concentration per Run 2	97.704 %	96.003 %	12.950 ppb	0.435 ppb	39.297 ppb	99.763 ppb	0.019 ppb	0.064 ppb	1.209 ppb
Concentration per Run 3	94.185 %	96.457 %	13.002 ppb	0.426 ppb	39.438 ppb	94.952 ppb	0.023 ppb	0.095 ppb	1.216 ppb
Concentration RSD	9.3 %	2.0 %	0.3 %	9.2 %	4.4 %	4.1 %	15.9 %	22.0 %	7.9 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	5.481 ppb	106.082 %	98.102 %	11.299 ppb	0.801 ppb	57.671 ppb	12.691 ppb	92.743 %	94.748 %
Concentration per Run 1	5.786 ppb	104.567 %	92.822 %	11.964 ppb	0.749 ppb	61.500 ppb	13.424 ppb	89.548 %	88.737 %
Concentration per Run 2	5.337 ppb	106.737 %	99.292 %	11.054 ppb	0.875 ppb	56.282 ppb	12.419 ppb	93.267 %	96.787 %
Concentration per Run 3	5.319 ppb	106.942 %	102.193 %	10.880 ppb	0.777 ppb	55.233 ppb	12.229 ppb	95.413 %	98.721 %
Concentration RSD	4.8 %	1.2 %	4.9 %	5.1 %	8.3 %	5.8 %	5.1 %	3.2 %	5.6 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.003 ppb	0.024 ppb	96.389 %	96.237 %	3.285 ppb	4.823 ppb	100.431 %	100.247 %	101.709 %
Concentration per Run 1	0.004 ppb	0.031 ppb	95.877 %	90.376 %	3.458 ppb	4.787 ppb	101.837 %	96.925 %	100.530 %
Concentration per Run 2	0.002 ppb	0.016 ppb	97.977 %	98.991 %	3.146 ppb	4.749 ppb	98.325 %	100.943 %	101.783 %
Concentration per Run 3	0.004 ppb	0.026 ppb	95.313 %	99.343 %	3.250 ppb	4.934 ppb	101.132 %	102.873 %	102.813 %
Concentration RSD	40.1 %	30.9 %	1.5 %	5.3 %	4.8 %	2.0 %	1.8 %	3.0 %	1.1 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	105.561 %	0.176 ppb	1.068 ppb	97.882 %	98.081 %
Concentration per Run 1	101.633 %	0.177 ppb	1.036 ppb	99.047 %	93.486 %
Concentration per Run 2	107.035 %	0.173 ppb	1.057 ppb	99.492 %	98.411 %
Concentration per Run 3	108.016 %	0.178 ppb	1.111 ppb	95.107 %	102.345 %
Concentration RSD	3.3 %	1.6 %	3.6 %	2.5 %	4.5 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	75	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	6/10/2024 2:54:38 PM	Vial	9		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	88.958 %	90.112 %	61.567 ppb	61.403 ppb	6,196.824 ppb	6,127.061 ppb	57.357 ppb	6,257.356 ppb	6,672.181 ppb
Concentration per Run 1	89.782 %	79.733 %	62.457 ppb	62.634 ppb	6,817.219 ppb	6,782.869 ppb	63.674 ppb	6,553.446 ppb	7,137.813 ppb
Concentration per Run 2	88.543 %	90.673 %	61.534 ppb	60.983 ppb	6,047.464 ppb	5,910.034 ppb	52.245 ppb	6,197.781 ppb	6,151.091 ppb
Concentration per Run 3	88.549 %	99.930 %	60.710 ppb	60.592 ppb	5,725.789 ppb	5,688.280 ppb	56.153 ppb	6,020.842 ppb	6,727.639 ppb
Recovery Percentage 1			102.612 %	102.338 %	103.280 %	102.118 %	95.596 %	104.289 %	111.203 %
Concentration RSD	0.8 %	11.2 %	1.4 %	1.8 %	9.1 %	9.4 %	10.1 %	4.3 %	7.4 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	104.786 %	105.426 %	63.984 ppb	65.202 ppb	64.391 ppb	6,346.650 ppb	64.568 ppb	64.123 ppb	63.263 ppb
Concentration per Run 1	90.560 %	102.575 %	66.320 ppb	68.375 ppb	67.148 ppb	6,693.773 ppb	68.963 ppb	67.753 ppb	66.496 ppb
Concentration per Run 2	112.131 %	106.681 %	62.326 ppb	63.192 ppb	62.741 ppb	6,108.288 ppb	60.422 ppb	62.999 ppb	60.778 ppb
Concentration per Run 3	111.667 %	107.021 %	63.307 ppb	64.039 ppb	63.283 ppb	6,237.888 ppb	64.320 ppb	61.617 ppb	62.514 ppb
Recovery Percentage 1			106.641 %	108.670 %	107.318 %	105.777 %	107.614 %	106.872 %	105.438 %
Concentration RSD	11.8 %	2.3 %	3.3 %	4.3 %	3.7 %	4.8 %	6.6 %	5.0 %	4.6 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	62.680 ppb	102.711 %	98.061 %	61.681 ppb	63.465 ppb	64.404 ppb	60.973 ppb	97.072 %	99.183 %
Concentration per Run 1	66.254 ppb	102.320 %	93.822 %	65.822 ppb	66.307 ppb	68.391 ppb	66.294 ppb	98.243 %	92.292 %
Concentration per Run 2	60.013 ppb	103.921 %	100.729 %	59.556 ppb	63.535 ppb	61.962 ppb	58.968 ppb	97.288 %	102.109 %
Concentration per Run 3	61.774 ppb	101.892 %	99.631 %	59.665 ppb	60.552 ppb	62.859 ppb	57.659 ppb	95.685 %	103.148 %
Recovery Percentage 1	104.467 %			102.802 %	105.775 %	107.340 %	101.622 %		
Concentration RSD	5.1 %	1.0 %	3.8 %	5.8 %	4.5 %	5.4 %	7.6 %	1.3 %	6.0 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	62.791 ppb	62.076 ppb	101.046 %	103.665 %	61.777 ppb	61.866 ppb	102.643 %	103.334 %	101.420 %
Concentration per Run 1	67.028 ppb	66.621 ppb	101.806 %	98.010 %	65.946 ppb	60.170 ppb	105.469 %	94.912 %	100.574 %
Concentration per Run 2	60.663 ppb	59.647 ppb	99.743 %	108.272 %	58.648 ppb	63.368 ppb	100.852 %	106.542 %	102.904 %
Concentration per Run 3	60.684 ppb	59.960 ppb	101.588 %	104.713 %	60.737 ppb	62.060 ppb	101.608 %	108.549 %	100.783 %
Recovery Percentage 1	104.652 %	103.460 %			102.962 %	103.110 %			
Concentration RSD	5.8 %	6.3 %	1.1 %	5.0 %	6.1 %	2.6 %	2.4 %	7.1 %	1.3 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.106 %	57.914 ppb	60.063 ppb	102.817 %	104.902 %
Concentration per Run 1	98.666 %	57.088 ppb	59.794 ppb	104.335 %	97.902 %
Concentration per Run 2	111.643 %	58.594 ppb	60.377 ppb	102.689 %	107.699 %
Concentration per Run 3	111.008 %	58.058 ppb	60.017 ppb	101.425 %	109.106 %
Recovery Percentage 1		96.523 %	100.104 %		
Concentration RSD	6.8 %	1.3 %	0.5 %	1.4 %	5.8 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 76 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: CCB Rack 0
Analysis started at: 6/10/2024 2:59:23 PM Vial 10

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.969 %	91.304 %	0.023 ppb	0.559 ppb	-5.254 ppb	-0.452 ppb	-2.262 ppb	-9.320 ppb	-4.578 ppb
Concentration per Run 1	89.899 %	91.515 %	0.028 ppb	0.570 ppb	-5.504 ppb	-0.167 ppb	-2.926 ppb	-9.208 ppb	0.193 ppb
Concentration per Run 2	90.136 %	89.200 %	0.019 ppb	0.557 ppb	-2.832 ppb	-0.494 ppb	-2.113 ppb	-6.949 ppb	-6.872 ppb
Concentration per Run 3	89.872 %	93.198 %	0.021 ppb	0.549 ppb	-7.427 ppb	-0.695 ppb	-1.748 ppb	-11.803 ppb	-7.056 ppb
Recovery Percentage 1			4.544 %	5.589 %	-5.254 %	-0.646 %	-22.624 %	-9.320 %	-4.578 %
Concentration RSD	0.2 %	2.2 %	19.9 %	1.9 %	43.9 %	59.0 %	26.6 %	26.1 %	90.3 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	103.074 %	98.145 %	-0.001 ppb	-0.006 ppb	0.015 ppb	3.027 ppb	0.008 ppb	0.071 ppb	-0.007 ppb
Concentration per Run 1	104.077 %	94.494 %	0.004 ppb	0.007 ppb	0.019 ppb	2.964 ppb	0.011 ppb	0.095 ppb	-0.011 ppb
Concentration per Run 2	103.489 %	98.599 %	-0.007 ppb	0.002 ppb	0.030 ppb	3.629 ppb	0.009 ppb	0.052 ppb	0.007 ppb
Concentration per Run 3	101.656 %	101.342 %	0.001 ppb	-0.028 ppb	-0.005 ppb	2.487 ppb	0.004 ppb	0.065 ppb	-0.016 ppb
Recovery Percentage 1			-0.011 %	-0.621 %	1.468 %	6.053 %	1.611 %	3.534 %	-0.681 %
Concentration RSD	1.2 %	3.5 %	972.4 %	308.3 %	123.8 %	19.0 %	40.9 %	31.4 %	174.9 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	-0.025 ppb	99.347 %	97.785 %	0.029 ppb	0.087 ppb	0.020 ppb	0.215 ppb	100.800 %	100.561 %
Concentration per Run 1	-0.036 ppb	100.474 %	92.350 %	0.044 ppb	-0.009 ppb	0.022 ppb	0.178 ppb	100.150 %	93.811 %
Concentration per Run 2	-0.037 ppb	99.079 %	100.553 %	0.021 ppb	0.182 ppb	0.009 ppb	0.207 ppb	100.950 %	104.662 %
Concentration per Run 3	-0.001 ppb	98.488 %	100.451 %	0.021 ppb	0.087 ppb	0.029 ppb	0.259 ppb	101.299 %	103.209 %
Recovery Percentage 1	-0.494 %			5.768 %	1.740 %	3.986 %	10.737 %		
Concentration RSD	83.5 %	1.0 %	4.8 %	46.9 %	109.9 %	52.4 %	19.2 %	0.6 %	5.9 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.006 ppb	0.005 ppb	100.924 %	103.539 %	0.089 ppb	0.013 ppb	102.995 %	104.834 %	103.778 %
Concentration per Run 1	0.006 ppb	0.002 ppb	100.287 %	99.076 %	0.082 ppb	0.014 ppb	102.157 %	98.566 %	103.654 %
Concentration per Run 2	0.007 ppb	0.008 ppb	99.870 %	105.608 %	0.079 ppb	0.015 ppb	100.624 %	108.852 %	101.791 %
Concentration per Run 3	0.004 ppb	0.005 ppb	102.613 %	105.934 %	0.106 ppb	0.011 ppb	106.204 %	107.085 %	105.890 %
Recovery Percentage 1	1.477 %				2.221 %	2.673 %			
Concentration RSD	30.8 %	61.9 %	1.5 %	3.7 %	16.8 %	17.2 %	2.8 %	5.2 %	2.0 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	104.748 %	0.381 ppb	0.007 ppb	104.959 %	108.070 %
Concentration per Run 1	100.091 %	0.416 ppb	0.007 ppb	105.627 %	102.515 %
Concentration per Run 2	106.730 %	0.382 ppb	0.007 ppb	104.955 %	109.233 %
Concentration per Run 3	107.421 %	0.347 ppb	0.007 ppb	104.294 %	112.462 %
Recovery Percentage 1		38.145 %	0.669 %		
Concentration RSD	3.9 %	9.0 %	3.7 %	0.6 %	4.7 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	77	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	6/10/2024 3:24:07 PM	Vial	9		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.152 %	90.042 %	59.915 ppb	59.945 ppb	5,960.817 ppb	5,953.844 ppb	63.586 ppb	5,939.930 ppb	6,380.076 ppb
Concentration per Run 1	89.749 %	81.627 %	59.778 ppb	60.115 ppb	6,471.885 ppb	6,446.249 ppb	67.861 ppb	6,222.704 ppb	6,568.824 ppb
Concentration per Run 2	89.269 %	93.408 %	59.831 ppb	59.881 ppb	5,783.015 ppb	5,869.008 ppb	68.304 ppb	5,876.139 ppb	6,370.633 ppb
Concentration per Run 3	88.437 %	95.091 %	60.136 ppb	59.839 ppb	5,627.551 ppb	5,546.274 ppb	54.594 ppb	5,720.946 ppb	6,200.771 ppb
Recovery Percentage 1			99.858 %	99.908 %	99.347 %	99.231 %	105.977 %	98.999 %	106.335 %
Concentration RSD	0.7 %	8.1 %	0.3 %	0.2 %	7.5 %	7.7 %	12.3 %	4.3 %	2.9 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	111.633 %	110.186 %	61.812 ppb	63.132 ppb	60.792 ppb	6,116.504 ppb	60.219 ppb	60.989 ppb	59.511 ppb
Concentration per Run 1	112.051 %	107.930 %	63.766 ppb	66.217 ppb	63.350 ppb	6,395.019 ppb	63.266 ppb	64.233 ppb	60.675 ppb
Concentration per Run 2	110.285 %	108.709 %	62.113 ppb	62.317 ppb	59.902 ppb	6,041.522 ppb	59.755 ppb	60.060 ppb	59.241 ppb
Concentration per Run 3	112.564 %	113.919 %	59.556 ppb	60.863 ppb	59.125 ppb	5,912.972 ppb	57.638 ppb	58.675 ppb	58.617 ppb
Recovery Percentage 1			103.019 %	105.221 %	101.320 %	101.942 %	100.366 %	101.649 %	99.185 %
Concentration RSD	1.1 %	3.0 %	3.4 %	4.4 %	3.7 %	4.1 %	4.7 %	4.7 %	1.8 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	58.578 ppb	100.232 %	101.123 %	57.936 ppb	60.073 ppb	63.334 ppb	57.871 ppb	96.165 %	99.808 %
Concentration per Run 1	61.267 ppb	98.962 %	99.649 %	59.339 ppb	60.904 ppb	64.832 ppb	60.463 ppb	102.526 %	96.829 %
Concentration per Run 2	57.366 ppb	100.028 %	102.697 %	56.289 ppb	58.649 ppb	61.222 ppb	56.765 ppb	97.027 %	101.900 %
Concentration per Run 3	57.102 ppb	101.707 %	101.024 %	58.181 ppb	60.665 ppb	63.947 ppb	56.385 ppb	88.941 %	100.696 %
Recovery Percentage 1	97.630 %			96.561 %	100.121 %	105.557 %	96.451 %		
Concentration RSD	4.0 %	1.4 %	1.5 %	2.7 %	2.1 %	3.0 %	3.9 %	7.1 %	2.7 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	59.882 ppb	60.722 ppb	100.935 %	104.439 %	54.775 ppb	60.615 ppb	102.819 %	106.778 %	104.857 %
Concentration per Run 1	63.126 ppb	64.005 ppb	101.384 %	100.169 %	57.611 ppb	60.370 ppb	102.888 %	103.763 %	105.466 %
Concentration per Run 2	58.536 ppb	58.827 ppb	100.614 %	105.946 %	53.482 ppb	61.654 ppb	101.543 %	108.552 %	103.141 %
Concentration per Run 3	57.985 ppb	59.334 ppb	100.807 %	107.202 %	53.231 ppb	59.819 ppb	104.026 %	108.019 %	105.964 %
Recovery Percentage 1	99.804 %	101.204 %			91.291 %	101.024 %			
Concentration RSD	4.7 %	4.7 %	0.4 %	3.6 %	4.5 %	1.6 %	1.2 %	2.5 %	1.4 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	108.468 %	61.264 ppb	61.306 ppb	101.100 %	107.906 %
Concentration per Run 1	106.816 %	60.772 ppb	61.066 ppb	100.477 %	104.340 %
Concentration per Run 2	109.707 %	60.012 ppb	61.412 ppb	102.168 %	105.660 %
Concentration per Run 3	108.882 %	63.009 ppb	61.441 ppb	100.656 %	113.718 %
Recovery Percentage 1		102.107 %	102.177 %		
Concentration RSD	1.4 %	2.5 %	0.3 %	0.9 %	4.7 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	78	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/10/2024 3:28:52 PM	Vial	10		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	90.005 %	92.146 %	0.030 ppb	0.365 ppb	-6.190 ppb	-0.153 ppb	-1.327 ppb	-14.263 ppb	-2.222 ppb
Concentration per Run 1	90.453 %	90.463 %	0.030 ppb	0.381 ppb	-5.272 ppb	0.141 ppb	-1.291 ppb	-9.740 ppb	0.082 ppb
Concentration per Run 2	90.503 %	92.146 %	0.028 ppb	0.355 ppb	-7.475 ppb	0.095 ppb	-1.729 ppb	-19.688 ppb	-3.334 ppb
Concentration per Run 3	89.058 %	93.829 %	0.032 ppb	0.359 ppb	-5.822 ppb	-0.696 ppb	-0.961 ppb	-13.360 ppb	-3.414 ppb
Recovery Percentage 1			5.959 %	3.652 %	-6.190 %	-0.219 %	-13.271 %	-14.263 %	-2.222 %
Concentration RSD	0.9 %	1.8 %	7.8 %	3.8 %	18.5 %	306.8 %	29.0 %	35.3 %	89.8 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	95.001 %	98.826 %	0.005 ppb	-0.001 ppb	0.018 ppb	1.774 ppb	0.005 ppb	0.015 ppb	0.001 ppb
Concentration per Run 1	89.155 %	96.554 %	0.012 ppb	0.006 ppb	0.026 ppb	1.692 ppb	0.007 ppb	0.001 ppb	0.004 ppb
Concentration per Run 2	106.962 %	99.281 %	-0.011 ppb	0.011 ppb	0.020 ppb	2.132 ppb	0.001 ppb	0.053 ppb	0.005 ppb
Concentration per Run 3	88.885 %	100.644 %	0.014 ppb	-0.020 ppb	0.008 ppb	1.498 ppb	0.006 ppb	-0.010 ppb	-0.007 ppb
Recovery Percentage 1			0.100 %	-0.107 %	1.820 %	3.548 %	0.958 %	0.742 %	0.059 %
Concentration RSD	10.9 %	2.1 %	275.0 %	1,526.5 %	52.1 %	18.3 %	64.5 %	227.1 %	1,094.5 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.020 ppb	100.519 %	96.470 %	0.027 ppb	0.134 ppb	0.006 ppb	0.187 ppb	101.217 %	101.235 %
Concentration per Run 1	0.038 ppb	101.526 %	91.035 %	-0.018 ppb	0.138 ppb	0.019 ppb	0.176 ppb	100.984 %	97.031 %
Concentration per Run 2	0.018 ppb	98.759 %	98.971 %	0.030 ppb	0.186 ppb	-0.002 ppb	0.191 ppb	101.503 %	101.489 %
Concentration per Run 3	0.003 ppb	101.273 %	99.404 %	0.069 ppb	0.078 ppb	0.001 ppb	0.194 ppb	101.163 %	105.184 %
Recovery Percentage 1	0.393 %			5.362 %	2.685 %	1.168 %	9.357 %		
Concentration RSD	89.1 %	1.5 %	4.9 %	162.6 %	40.4 %	194.0 %	5.0 %	0.3 %	4.0 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.004 ppb	0.002 ppb	103.288 %	101.721 %	1.384 ppb	0.014 ppb	103.713 %	104.576 %	102.687 %
Concentration per Run 1	0.004 ppb	0.003 ppb	105.695 %	93.973 %	1.265 ppb	0.017 ppb	102.147 %	99.097 %	102.544 %
Concentration per Run 2	0.005 ppb	0.001 ppb	103.030 %	104.706 %	1.446 ppb	0.014 ppb	104.129 %	107.063 %	101.562 %
Concentration per Run 3	0.003 ppb	0.002 ppb	101.138 %	106.485 %	1.440 ppb	0.011 ppb	104.863 %	107.567 %	103.956 %
Recovery Percentage 1	0.991 %				34.592 %	2.755 %			
Concentration RSD	25.3 %	65.6 %	2.2 %	6.7 %	7.4 %	20.3 %	1.4 %	4.5 %	1.2 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	106.975 %	0.112 ppb	0.007 ppb	106.025 %	108.627 %
Concentration per Run 1	100.522 %	0.124 ppb	0.007 ppb	106.171 %	103.395 %
Concentration per Run 2	108.448 %	0.106 ppb	0.007 ppb	107.440 %	110.431 %
Concentration per Run 3	111.956 %	0.107 ppb	0.007 ppb	104.464 %	112.054 %
Recovery Percentage 1		11.211 %	0.696 %		
Concentration RSD	5.5 %	9.2 %	4.3 %	1.4 %	4.2 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	79	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	WG1930718-1 6020TL	Rack	1		
Analysis started at:	6/10/2024 3:33:39 PM	Vial	48		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.864 %	88.429 %	0.023 ppb	0.304 ppb	-6.177 ppb	-0.332 ppb	-0.324 ppb	-10.793 ppb	5.905 ppb
Concentration per Run 1	89.748 %	84.151 %	0.026 ppb	0.307 ppb	-4.842 ppb	-0.607 ppb	0.845 ppb	-9.714 ppb	17.614 ppb
Concentration per Run 2	89.595 %	90.463 %	0.022 ppb	0.307 ppb	-5.714 ppb	0.132 ppb	-0.487 ppb	-12.420 ppb	0.150 ppb
Concentration per Run 3	90.251 %	90.673 %	0.020 ppb	0.298 ppb	-7.976 ppb	-0.520 ppb	-1.331 ppb	-10.245 ppb	-0.049 ppb
Concentration RSD	0.4 %	4.2 %	11.8 %	1.6 %	26.2 %	121.7 %	338.4 %	13.3 %	171.7 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	106.101 %	98.610 %	-0.004 ppb	-0.025 ppb	0.592 ppb	1.316 ppb	0.004 ppb	-0.028 ppb	0.037 ppb
Concentration per Run 1	104.859 %	97.658 %	-0.014 ppb	-0.002 ppb	0.600 ppb	1.159 ppb	0.002 ppb	0.000 ppb	0.049 ppb
Concentration per Run 2	106.769 %	97.479 %	0.011 ppb	-0.033 ppb	0.594 ppb	-0.052 ppb	0.005 ppb	-0.042 ppb	0.035 ppb
Concentration per Run 3	106.675 %	100.692 %	-0.007 ppb	-0.039 ppb	0.582 ppb	2.842 ppb	0.006 ppb	-0.041 ppb	0.026 ppb
Concentration RSD	1.0 %	1.8 %	365.0 %	80.1 %	1.6 %	110.4 %	50.7 %	85.1 %	31.6 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.003 ppb	101.140 %	97.247 %	0.009 ppb	0.048 ppb	-0.001 ppb	0.061 ppb	101.826 %	100.368 %
Concentration per Run 1	0.033 ppb	101.920 %	91.498 %	0.007 ppb	0.064 ppb	-0.005 ppb	0.032 ppb	100.155 %	96.085 %
Concentration per Run 2	-0.037 ppb	99.870 %	99.330 %	0.015 ppb	0.030 ppb	0.002 ppb	0.080 ppb	102.256 %	102.587 %
Concentration per Run 3	0.012 ppb	101.629 %	100.914 %	0.005 ppb	0.051 ppb	0.001 ppb	0.071 ppb	103.066 %	102.431 %
Concentration RSD	1,330.7 %	1.1 %	5.2 %	57.1 %	35.5 %	460.5 %	41.5 %	1.5 %	3.7 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.001 ppb	0.001 ppb	102.975 %	103.275 %	0.319 ppb	0.011 ppb	104.327 %	104.132 %	105.486 %
Concentration per Run 1	0.000 ppb	0.002 ppb	104.838 %	97.068 %	0.271 ppb	0.014 ppb	104.682 %	101.072 %	104.244 %
Concentration per Run 2	0.001 ppb	0.001 ppb	102.766 %	106.060 %	0.325 ppb	0.010 ppb	103.704 %	104.423 %	107.263 %
Concentration per Run 3	0.000 ppb	0.000 ppb	101.321 %	106.698 %	0.360 ppb	0.009 ppb	104.595 %	106.903 %	104.950 %
Concentration RSD	83.3 %	151.6 %	1.7 %	5.2 %	14.0 %	26.9 %	0.5 %	2.8 %	1.5 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	106.253 %	0.068 ppb	0.033 ppb	107.544 %	108.632 %
Concentration per Run 1	100.252 %	0.067 ppb	0.033 ppb	104.996 %	104.270 %
Concentration per Run 2	108.558 %	0.070 ppb	0.033 ppb	108.232 %	108.663 %
Concentration per Run 3	109.948 %	0.068 ppb	0.032 ppb	109.405 %	112.962 %
Concentration RSD	4.9 %	2.5 %	1.9 %	2.1 %	4.0 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	80	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	WG1930718-2d10 6020TL	Rack	1		
Analysis started at:	6/10/2024 3:38:22 PM	Vial	49		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.258 %	93.478 %	5.118 ppb	98.840 ppb	998.106 ppb	981.736 ppb	213.343 ppb	1,020.632 ppb	1,046.167 ppb
Concentration per Run 1	89.942 %	92.777 %	5.181 ppb	99.894 ppb	1,010.355 ppb	996.782 ppb	215.294 ppb	1,051.171 ppb	1,124.879 ppb
Concentration per Run 2	89.099 %	94.250 %	5.090 ppb	98.355 ppb	986.890 ppb	970.710 ppb	226.736 ppb	1,009.620 ppb	947.731 ppb
Concentration per Run 3	88.732 %	93.408 %	5.085 ppb	98.270 ppb	997.072 ppb	977.716 ppb	197.998 ppb	1,001.104 ppb	1,065.892 ppb
Concentration RSD	0.7 %	0.8 %	1.1 %	0.9 %	1.2 %	1.4 %	6.8 %	2.6 %	8.6 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	99.261 %	96.825 %	54.174 ppb	21.955 ppb	54.404 ppb	112.451 ppb	53.226 ppb	55.119 ppb	25.936 ppb
Concentration per Run 1	89.416 %	95.240 %	55.802 ppb	22.690 ppb	56.816 ppb	117.330 ppb	55.838 ppb	57.730 ppb	27.688 ppb
Concentration per Run 2	103.116 %	96.116 %	53.528 ppb	21.458 ppb	53.182 ppb	106.342 ppb	52.649 ppb	53.980 ppb	24.272 ppb
Concentration per Run 3	105.250 %	99.118 %	53.191 ppb	21.716 ppb	53.212 ppb	113.683 ppb	51.190 ppb	53.647 ppb	25.847 ppb
Concentration RSD	8.7 %	2.1 %	2.6 %	3.0 %	3.8 %	5.0 %	4.5 %	4.1 %	6.6 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	51.023 ppb	101.900 %	96.943 %	12.332 ppb	12.706 ppb	100.825 ppb	91.875 ppb	99.539 %	98.886 %
Concentration per Run 1	53.456 ppb	103.247 %	91.850 %	12.926 ppb	13.835 ppb	105.837 ppb	99.565 ppb	99.879 %	94.527 %
Concentration per Run 2	49.870 ppb	100.533 %	100.564 %	11.922 ppb	12.315 ppb	98.341 ppb	86.761 ppb	100.224 %	100.873 %
Concentration per Run 3	49.743 ppb	101.920 %	98.416 %	12.147 ppb	11.969 ppb	98.297 ppb	89.299 ppb	98.516 %	101.259 %
Concentration RSD	4.1 %	1.3 %	4.7 %	4.3 %	7.8 %	4.3 %	7.4 %	0.9 %	3.8 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	5.131 ppb	5.438 ppb	105.204 %	102.456 %	49.411 ppb	221.770 ppb	103.585 %	103.367 %	101.410 %
Concentration per Run 1	5.443 ppb	5.680 ppb	104.344 %	95.888 %	52.787 ppb	225.983 ppb	102.991 %	98.233 %	101.250 %
Concentration per Run 2	4.983 ppb	5.296 ppb	104.911 %	104.337 %	48.167 ppb	217.538 ppb	103.882 %	104.959 %	101.435 %
Concentration per Run 3	4.967 ppb	5.338 ppb	106.358 %	107.142 %	47.278 ppb	221.789 ppb	103.881 %	106.911 %	101.547 %
Concentration RSD	5.3 %	3.9 %	1.0 %	5.7 %	6.0 %	1.9 %	0.5 %	4.4 %	0.1 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	106.350 %	10.096 ppb	54.492 ppb	105.906 %	105.808 %
Concentration per Run 1	100.015 %	10.047 ppb	54.407 ppb	105.534 %	100.512 %
Concentration per Run 2	108.854 %	10.227 ppb	54.814 ppb	105.018 %	106.156 %
Concentration per Run 3	110.181 %	10.013 ppb	54.256 ppb	107.166 %	110.756 %
Concentration RSD	5.2 %	1.1 %	0.5 %	1.1 %	4.8 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	81	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2430219-04 6020TL	Rack	1		
Analysis started at:	6/10/2024 3:43:03 PM	Vial	50		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	86.169 %	84.432 %	0.023 ppb	8.162 ppb	50,319.080 ppb	13,192.021 ppb	16.697 ppb	1,297.705 ppb	23,769.362 ppb
Concentration per Run 1	85.296 %	76.157 %	0.020 ppb	8.196 ppb	53,600.670 ppb	14,275.973 ppb	14.749 ppb	1,341.093 ppb	24,630.739 ppb
Concentration per Run 2	86.224 %	87.517 %	0.027 ppb	8.147 ppb	49,179.608 ppb	12,945.610 ppb	16.751 ppb	1,283.389 ppb	23,804.665 ppb
Concentration per Run 3	86.987 %	89.621 %	0.022 ppb	8.142 ppb	48,176.961 ppb	12,354.480 ppb	18.593 ppb	1,268.632 ppb	22,872.682 ppb
Concentration RSD	1.0 %	8.6 %	14.4 %	0.4 %	5.7 %	7.5 %	11.5 %	3.0 %	3.7 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	114.272 %	96.349 %	0.220 ppb	6.257 ppb	4.373 ppb	63.489 ppb	0.120 ppb	3.091 ppb	0.188 ppb
Concentration per Run 1	116.177 %	95.727 %	0.214 ppb	6.813 ppb	4.511 ppb	67.921 ppb	0.133 ppb	3.184 ppb	0.223 ppb
Concentration per Run 2	115.128 %	94.915 %	0.271 ppb	6.051 ppb	4.292 ppb	63.858 ppb	0.108 ppb	3.084 ppb	0.152 ppb
Concentration per Run 3	111.512 %	98.404 %	0.174 ppb	5.908 ppb	4.315 ppb	58.689 ppb	0.118 ppb	3.003 ppb	0.188 ppb
Concentration RSD	2.1 %	1.9 %	22.3 %	7.8 %	2.7 %	7.3 %	10.6 %	2.9 %	18.9 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	1.018 ppb	105.500 %	98.281 %	0.059 ppb	0.208 ppb	106.780 ppb	0.485 ppb	93.463 %	93.448 %
Concentration per Run 1	1.047 ppb	106.657 %	91.868 %	0.128 ppb	0.139 ppb	111.347 ppb	0.468 ppb	94.631 %	89.359 %
Concentration per Run 2	0.987 ppb	104.360 %	100.923 %	0.028 ppb	0.273 ppb	103.975 ppb	0.436 ppb	91.643 %	94.971 %
Concentration per Run 3	1.019 ppb	105.482 %	102.053 %	0.020 ppb	0.210 ppb	105.017 ppb	0.549 ppb	94.114 %	96.013 %
Concentration RSD	2.9 %	1.1 %	5.7 %	102.4 %	32.4 %	3.7 %	12.1 %	1.7 %	3.8 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.001 ppb	0.015 ppb	101.893 %	96.496 %	0.790 ppb	67.677 ppb	104.363 %	103.138 %	106.299 %
Concentration per Run 1	0.001 ppb	0.011 ppb	102.950 %	92.363 %	0.740 ppb	65.592 ppb	104.167 %	97.637 %	105.569 %
Concentration per Run 2	0.000 ppb	0.016 ppb	101.724 %	97.878 %	0.763 ppb	67.572 ppb	105.892 %	105.933 %	108.210 %
Concentration per Run 3	0.001 ppb	0.016 ppb	101.006 %	99.245 %	0.868 ppb	69.865 ppb	103.028 %	105.843 %	105.119 %
Concentration RSD	132.0 %	18.9 %	1.0 %	3.8 %	8.7 %	3.2 %	1.4 %	4.6 %	1.6 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	105.955 %	0.066 ppb	0.065 ppb	103.897 %	101.536 %
Concentration per Run 1	100.478 %	0.066 ppb	0.061 ppb	105.754 %	97.301 %
Concentration per Run 2	109.134 %	0.064 ppb	0.066 ppb	105.831 %	101.827 %
Concentration per Run 3	108.252 %	0.067 ppb	0.069 ppb	100.105 %	105.481 %
Concentration RSD	4.5 %	2.8 %	6.6 %	3.2 %	4.0 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 82
Analysis label: WG1930718-3d10 6020TL
Analysis started at: 6/10/2024 3:47:43 PM
User name ALPHALAB\ICPMSRQ
Rack 1
Vial 51
Comment <Comment>

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.020 %	89.691 %	5.228 ppb	100.922 ppb	6,796.383 ppb	2,401.479 ppb	217.414 ppb	1,158.181 ppb	3,578.384 ppb
Concentration per Run 1	89.387 %	81.416 %	5.178 ppb	101.349 ppb	7,340.489 ppb	2,564.089 ppb	242.822 ppb	1,225.657 ppb	3,923.870 ppb
Concentration per Run 2	89.058 %	98.036 %	5.239 ppb	101.079 ppb	6,468.827 ppb	2,272.555 ppb	196.295 ppb	1,131.135 ppb	3,545.903 ppb
Concentration per Run 3	88.615 %	89.621 %	5.267 ppb	100.337 ppb	6,579.832 ppb	2,367.794 ppb	213.124 ppb	1,117.753 ppb	3,265.379 ppb
Concentration RSD	0.4 %	9.3 %	0.9 %	0.5 %	7.0 %	6.2 %	10.8 %	5.1 %	9.2 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	108.306 %	99.102 %	54.289 ppb	22.886 ppb	54.210 ppb	115.382 ppb	53.893 ppb	55.655 ppb	26.820 ppb
Concentration per Run 1	107.727 %	96.116 %	57.830 ppb	24.248 ppb	56.983 ppb	125.976 ppb	57.107 ppb	58.303 ppb	28.252 ppb
Concentration per Run 2	106.415 %	99.183 %	53.328 ppb	22.442 ppb	52.950 ppb	110.985 ppb	53.829 ppb	54.771 ppb	26.623 ppb
Concentration per Run 3	110.775 %	102.007 %	51.709 ppb	21.968 ppb	52.697 ppb	109.184 ppb	50.744 ppb	53.892 ppb	25.587 ppb
Concentration RSD	2.1 %	3.0 %	5.8 %	5.3 %	4.4 %	8.0 %	5.9 %	4.2 %	5.0 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	51.958 ppb	104.117 %	97.900 %	13.004 ppb	12.038 ppb	114.463 ppb	96.493 ppb	98.269 %	98.159 %
Concentration per Run 1	55.398 ppb	102.471 %	92.521 %	13.800 ppb	12.973 ppb	121.420 ppb	103.323 ppb	98.853 %	93.144 %
Concentration per Run 2	50.174 ppb	104.724 %	99.556 %	12.597 ppb	11.759 ppb	110.717 ppb	93.983 ppb	99.375 %	100.449 %
Concentration per Run 3	50.302 ppb	105.156 %	101.621 %	12.614 ppb	11.383 ppb	111.253 ppb	92.173 ppb	96.578 %	100.884 %
Concentration RSD	5.7 %	1.4 %	4.9 %	5.3 %	6.9 %	5.3 %	6.2 %	1.5 %	4.4 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	5.175 ppb	5.655 ppb	106.068 %	104.141 %	50.204 ppb	229.801 ppb	106.468 %	104.678 %	105.684 %
Concentration per Run 1	5.522 ppb	6.086 ppb	105.051 %	98.870 %	53.022 ppb	230.447 ppb	102.629 %	99.211 %	105.339 %
Concentration per Run 2	5.054 ppb	5.493 ppb	107.086 %	106.800 %	49.154 ppb	231.923 ppb	106.663 %	106.471 %	106.110 %
Concentration per Run 3	4.949 ppb	5.388 ppb	106.068 %	106.753 %	48.436 ppb	227.032 ppb	110.112 %	108.351 %	105.603 %
Concentration RSD	5.9 %	6.7 %	1.0 %	4.4 %	4.9 %	1.1 %	3.5 %	4.6 %	0.4 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.739 %	10.483 ppb	56.524 ppb	106.356 %	106.145 %
Concentration per Run 1	101.810 %	10.157 ppb	56.579 ppb	104.901 %	102.805 %
Concentration per Run 2	110.941 %	10.431 ppb	55.994 ppb	108.315 %	107.143 %
Concentration per Run 3	110.466 %	10.862 ppb	56.999 ppb	105.851 %	108.489 %
Concentration RSD	4.8 %	3.4 %	0.9 %	1.7 %	2.8 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	83	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	WG1930718-4d10 6020TL	Rack	1		
Analysis started at:	6/10/2024 3:52:24 PM	Vial	52		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	88.555 %	86.395 %	5.205 ppb	102.355 ppb	6,852.519 ppb	2,383.834 ppb	227.865 ppb	1,171.237 ppb	3,417.720 ppb
Concentration per Run 1	88.142 %	82.679 %	5.272 ppb	105.916 ppb	7,185.584 ppb	2,482.451 ppb	231.962 ppb	1,210.955 ppb	3,623.610 ppb
Concentration per Run 2	88.418 %	91.725 %	5.202 ppb	101.170 ppb	6,611.718 ppb	2,333.027 ppb	226.441 ppb	1,158.709 ppb	3,436.211 ppb
Concentration per Run 3	89.105 %	84.782 %	5.141 ppb	99.980 ppb	6,760.255 ppb	2,336.024 ppb	225.191 ppb	1,144.048 ppb	3,193.341 ppb
Concentration RSD	0.6 %	5.5 %	1.3 %	3.1 %	4.3 %	3.6 %	1.6 %	3.0 %	6.3 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	103.082 %	98.431 %	53.191 ppb	22.627 ppb	54.065 ppb	114.961 ppb	53.894 ppb	54.025 ppb	25.993 ppb
Concentration per Run 1	90.138 %	96.343 %	53.753 ppb	23.421 ppb	55.606 ppb	117.286 ppb	56.007 ppb	54.859 ppb	26.611 ppb
Concentration per Run 2	110.051 %	97.577 %	53.099 ppb	22.411 ppb	53.355 ppb	113.094 ppb	51.926 ppb	53.824 ppb	25.979 ppb
Concentration per Run 3	109.059 %	101.374 %	52.721 ppb	22.049 ppb	53.234 ppb	114.503 ppb	53.748 ppb	53.393 ppb	25.389 ppb
Concentration RSD	10.9 %	2.7 %	1.0 %	3.1 %	2.5 %	1.9 %	3.8 %	1.4 %	2.4 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	52.163 ppb	104.156 %	97.656 %	12.730 ppb	11.922 ppb	113.531 ppb	95.577 ppb	99.083 %	98.280 %
Concentration per Run 1	53.960 ppb	104.030 %	94.533 %	13.405 ppb	11.940 ppb	119.538 ppb	101.487 ppb	99.741 %	93.598 %
Concentration per Run 2	51.347 ppb	103.856 %	100.852 %	12.127 ppb	12.159 ppb	108.341 ppb	92.667 ppb	99.753 %	100.836 %
Concentration per Run 3	51.181 ppb	104.581 %	97.585 %	12.658 ppb	11.668 ppb	112.715 ppb	92.577 ppb	97.755 %	100.407 %
Concentration RSD	3.0 %	0.4 %	3.2 %	5.0 %	2.1 %	5.0 %	5.4 %	1.2 %	4.1 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	5.165 ppb	5.557 ppb	103.022 %	104.063 %	50.533 ppb	231.669 ppb	106.688 %	104.745 %	106.871 %
Concentration per Run 1	5.539 ppb	5.736 ppb	101.634 %	98.416 %	53.407 ppb	232.783 ppb	108.870 %	99.965 %	105.795 %
Concentration per Run 2	5.007 ppb	5.410 ppb	104.360 %	106.604 %	49.775 ppb	231.715 ppb	105.141 %	104.589 %	105.644 %
Concentration per Run 3	4.948 ppb	5.524 ppb	103.071 %	107.168 %	48.416 ppb	230.507 ppb	106.054 %	109.682 %	109.175 %
Concentration RSD	6.3 %	3.0 %	1.3 %	4.7 %	5.1 %	0.5 %	1.8 %	4.6 %	1.9 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	109.270 %	10.440 ppb	56.707 ppb	106.332 %	106.421 %
Concentration per Run 1	102.842 %	10.464 ppb	57.110 ppb	105.428 %	100.936 %
Concentration per Run 2	112.347 %	10.508 ppb	57.109 ppb	105.055 %	106.572 %
Concentration per Run 3	112.622 %	10.348 ppb	55.902 ppb	108.514 %	111.757 %
Concentration RSD	5.1 %	0.8 %	1.2 %	1.8 %	5.1 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	84	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	WG1930718-5d10 6020TL	Rack	1		
Analysis started at:	6/10/2024 3:57:05 PM	Vial	53		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	87.489 %	90.182 %	48.828 ppb	51.181 ppb	10,153.860 ppb	5,915.068 ppb	49.465 ppb	4,768.579 ppb	7,426.953 ppb
Concentration per Run 1	87.654 %	87.307 %	48.339 ppb	51.139 ppb	10,351.729 ppb	6,007.204 ppb	48.162 ppb	4,770.184 ppb	7,402.794 ppb
Concentration per Run 2	87.590 %	91.725 %	48.911 ppb	50.594 ppb	10,061.004 ppb	5,928.601 ppb	56.553 ppb	4,814.236 ppb	7,433.172 ppb
Concentration per Run 3	87.222 %	91.515 %	49.234 ppb	51.809 ppb	10,048.845 ppb	5,809.400 ppb	43.681 ppb	4,721.319 ppb	7,444.893 ppb
Concentration RSD	0.3 %	2.8 %	0.9 %	1.2 %	1.7 %	1.7 %	13.2 %	1.0 %	0.3 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	102.739 %	100.747 %	51.358 ppb	51.299 ppb	49.546 ppb	4,995.040 ppb	49.948 ppb	51.168 ppb	48.455 ppb
Concentration per Run 1	107.599 %	100.627 %	52.605 ppb	52.825 ppb	50.943 ppb	5,104.051 ppb	52.097 ppb	52.920 ppb	51.225 ppb
Concentration per Run 2	109.658 %	98.404 %	51.435 ppb	51.609 ppb	49.605 ppb	5,092.492 ppb	49.708 ppb	51.150 ppb	47.330 ppb
Concentration per Run 3	90.960 %	103.208 %	50.033 ppb	49.462 ppb	48.089 ppb	4,788.575 ppb	48.041 ppb	49.435 ppb	46.808 ppb
Concentration RSD	10.0 %	2.4 %	2.5 %	3.3 %	2.9 %	3.6 %	4.1 %	3.4 %	5.0 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	48.929 ppb	104.030 %	96.160 %	48.180 ppb	49.384 ppb	61.704 ppb	48.528 ppb	99.797 %	97.258 %
Concentration per Run 1	50.770 ppb	104.016 %	90.027 %	50.676 ppb	53.672 ppb	64.714 ppb	51.855 ppb	102.364 %	92.477 %
Concentration per Run 2	48.741 ppb	103.150 %	98.756 %	46.660 ppb	47.024 ppb	60.201 ppb	47.199 ppb	99.745 %	99.772 %
Concentration per Run 3	47.275 ppb	104.925 %	99.697 %	47.204 ppb	47.456 ppb	60.198 ppb	46.529 ppb	97.282 %	99.526 %
Concentration RSD	3.6 %	0.9 %	5.5 %	4.5 %	7.5 %	4.2 %	6.0 %	2.5 %	4.3 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	1.725 ppb	48.291 ppb	102.058 %	101.580 %	50.097 ppb	55.883 ppb	106.549 %	104.987 %	105.722 %
Concentration per Run 1	1.826 ppb	51.408 ppb	102.492 %	94.374 %	53.828 ppb	55.163 ppb	106.681 %	100.461 %	104.385 %
Concentration per Run 2	1.683 ppb	46.949 ppb	101.364 %	105.265 %	48.055 ppb	55.619 ppb	105.575 %	106.828 %	106.965 %
Concentration per Run 3	1.666 ppb	46.515 ppb	102.318 %	105.100 %	48.408 ppb	56.867 ppb	107.392 %	107.673 %	105.816 %
Concentration RSD	5.1 %	5.6 %	0.6 %	6.1 %	6.5 %	1.6 %	0.9 %	3.8 %	1.2 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.130 %	46.455 ppb	46.560 ppb	105.816 %	106.772 %
Concentration per Run 1	102.916 %	46.449 ppb	44.387 ppb	105.160 %	101.649 %
Concentration per Run 2	108.530 %	46.336 ppb	49.443 ppb	106.709 %	105.880 %
Concentration per Run 3	109.944 %	46.579 ppb	45.849 ppb	105.578 %	112.788 %
Concentration RSD	3.5 %	0.3 %	5.6 %	0.8 %	5.3 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 85
Analysis label: WG1930718-6d5 6020TL
Analysis started at: 6/10/2024 4:01:46 PM
User name ALPHALAB\ICPMSRQ
Rack 1
Vial 54
Comment <Comment>

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	87.132 %	85.834 %	0.030 ppb	1.989 ppb	11,640.549 ppb	2,770.172 ppb	2.326 ppb	262.747 ppb	4,984.933 ppb
Concentration per Run 1	87.087 %	88.359 %	0.034 ppb	1.992 ppb	11,785.080 ppb	2,767.135 ppb	0.390 ppb	272.468 ppb	5,206.543 ppb
Concentration per Run 2	87.548 %	83.310 %	0.027 ppb	2.005 ppb	11,719.736 ppb	2,789.423 ppb	4.703 ppb	263.452 ppb	4,805.153 ppb
Concentration per Run 3	86.762 %	85.834 %	0.028 ppb	1.970 ppb	11,416.830 ppb	2,753.957 ppb	1.885 ppb	252.322 ppb	4,943.102 ppb
Concentration RSD	0.5 %	2.9 %	13.1 %	0.9 %	1.7 %	0.6 %	94.1 %	3.8 %	4.1 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	101.387 %	98.740 %	0.066 ppb	1.332 ppb	0.951 ppb	15.401 ppb	0.034 ppb	0.696 ppb	0.026 ppb
Concentration per Run 1	106.442 %	95.889 %	0.025 ppb	1.383 ppb	1.000 ppb	15.281 ppb	0.035 ppb	0.831 ppb	0.031 ppb
Concentration per Run 2	91.574 %	96.457 %	0.097 ppb	1.334 ppb	0.962 ppb	14.610 ppb	0.039 ppb	0.606 ppb	0.041 ppb
Concentration per Run 3	106.145 %	103.873 %	0.078 ppb	1.277 ppb	0.890 ppb	16.314 ppb	0.029 ppb	0.650 ppb	0.005 ppb
Concentration RSD	8.4 %	4.5 %	55.8 %	4.0 %	5.9 %	5.6 %	15.6 %	17.1 %	73.4 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.052 ppb	104.216 %	96.971 %	0.073 ppb	0.126 ppb	22.607 ppb	0.303 ppb	99.032 %	96.410 %
Concentration per Run 1	0.083 ppb	105.514 %	93.776 %	0.038 ppb	0.127 ppb	23.192 ppb	0.265 ppb	100.155 %	91.437 %
Concentration per Run 2	0.032 ppb	102.981 %	99.910 %	0.081 ppb	0.093 ppb	22.321 ppb	0.305 ppb	98.057 %	97.274 %
Concentration per Run 3	0.042 ppb	104.154 %	97.227 %	0.099 ppb	0.159 ppb	22.308 ppb	0.338 ppb	98.883 %	100.518 %
Concentration RSD	51.9 %	1.2 %	3.2 %	42.5 %	26.3 %	2.2 %	12.1 %	1.1 %	4.8 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.009 ppb	102.342 %	102.349 %	0.350 ppb	13.398 ppb	107.195 %	107.158 %	106.540 %
Concentration per Run 1	0.000 ppb	0.006 ppb	100.479 %	96.927 %	0.272 ppb	13.248 ppb	108.180 %	103.392 %	107.271 %
Concentration per Run 2	0.001 ppb	0.012 ppb	102.812 %	105.174 %	0.373 ppb	13.392 ppb	107.757 %	109.200 %	107.265 %
Concentration per Run 3	0.001 ppb	0.009 ppb	103.736 %	104.945 %	0.406 ppb	13.555 ppb	105.647 %	108.881 %	105.083 %
Concentration RSD	105.3 %	31.5 %	1.6 %	4.6 %	19.9 %	1.1 %	1.3 %	3.0 %	1.2 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	110.016 %	0.274 ppb	0.016 ppb	106.574 %	108.224 %
Concentration per Run 1	104.725 %	0.299 ppb	0.017 ppb	106.878 %	103.775 %
Concentration per Run 2	113.840 %	0.279 ppb	0.017 ppb	107.188 %	108.313 %
Concentration per Run 3	111.484 %	0.246 ppb	0.015 ppb	105.655 %	112.584 %
Concentration RSD	4.3 %	9.7 %	6.5 %	0.8 %	4.1 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	86	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2430219-01 6020TL	Rack	1		
Analysis started at:	6/10/2024 4:06:27 PM	Vial	55		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	84.848 %	91.094 %	0.022 ppb	68.230 ppb	40,512.825 ppb	161.439 ppb	850.387 ppb	22,062.632 ppb	109,311.058 ppb
Concentration per Run 1	85.020 %	90.042 %	0.024 ppb	67.927 ppb	41,094.395 ppb	158.482 ppb	856.644 ppb	22,124.048 ppb	108,777.937 ppb
Concentration per Run 2	84.109 %	89.832 %	0.020 ppb	68.078 ppb	40,637.723 ppb	165.648 ppb	872.152 ppb	22,292.820 ppb	110,765.347 ppb
Concentration per Run 3	85.415 %	93.408 %	0.020 ppb	68.684 ppb	39,806.356 ppb	160.186 ppb	822.364 ppb	21,771.029 ppb	108,389.891 ppb
Concentration RSD	0.8 %	2.2 %	9.1 %	0.6 %	1.6 %	2.3 %	3.0 %	1.2 %	1.2 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	104.120 %	98.231 %	19.724 ppb	0.424 ppb	677.140 ppb	305.607 ppb	0.541 ppb	4.788 ppb	1.416 ppb
Concentration per Run 1	109.992 %	97.301 %	20.093 ppb	0.467 ppb	686.167 ppb	301.418 ppb	0.564 ppb	4.816 ppb	1.473 ppb
Concentration per Run 2	109.803 %	96.506 %	19.463 ppb	0.432 ppb	682.328 ppb	319.675 ppb	0.516 ppb	4.826 ppb	1.334 ppb
Concentration per Run 3	92.566 %	100.887 %	19.617 ppb	0.373 ppb	662.924 ppb	295.729 ppb	0.544 ppb	4.722 ppb	1.440 ppb
Concentration RSD	9.6 %	2.4 %	1.7 %	11.3 %	1.8 %	4.1 %	4.4 %	1.2 %	5.1 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.284 ppb	104.450 %	98.394 %	3.982 ppb	1.205 ppb	887.670 ppb	24.090 ppb	94.063 %	93.804 %
Concentration per Run 1	0.264 ppb	101.569 %	95.392 %	4.016 ppb	1.109 ppb	912.933 ppb	25.005 ppb	94.790 %	89.457 %
Concentration per Run 2	0.282 ppb	106.502 %	99.623 %	3.911 ppb	1.219 ppb	882.188 ppb	24.031 ppb	94.640 %	97.045 %
Concentration per Run 3	0.306 ppb	105.279 %	100.168 %	4.020 ppb	1.286 ppb	867.888 ppb	23.235 ppb	92.759 %	94.910 %
Concentration RSD	7.5 %	2.5 %	2.7 %	1.6 %	7.4 %	2.6 %	3.7 %	1.2 %	4.2 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.003 ppb	96.639 %	97.339 %	0.981 ppb	8.156 ppb	102.794 %	102.275 %	102.716 %
Concentration per Run 1	0.000 ppb	0.002 ppb	95.676 %	94.829 %	0.932 ppb	8.233 ppb	102.005 %	98.591 %	104.408 %
Concentration per Run 2	-0.001 ppb	0.001 ppb	96.684 %	97.846 %	0.995 ppb	8.196 ppb	103.550 %	105.296 %	101.055 %
Concentration per Run 3	0.000 ppb	0.006 ppb	97.557 %	99.341 %	1.016 ppb	8.039 ppb	102.827 %	102.937 %	102.684 %
Concentration RSD	126.4 %	96.6 %	1.0 %	2.4 %	4.5 %	1.3 %	0.8 %	3.3 %	1.6 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	106.371 %	0.122 ppb	0.038 ppb	96.483 %	100.435 %
Concentration per Run 1	101.236 %	0.125 ppb	0.037 ppb	95.265 %	97.229 %
Concentration per Run 2	110.352 %	0.124 ppb	0.037 ppb	96.197 %	99.913 %
Concentration per Run 3	107.525 %	0.116 ppb	0.038 ppb	97.987 %	104.163 %
Concentration RSD	4.4 %	4.2 %	1.7 %	1.4 %	3.5 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	87	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2430219-02 6020TL	Rack	1		
Analysis started at:	6/10/2024 4:11:09 PM	Vial	56		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	87.677 %	87.447 %	0.019 ppb	138.212 ppb	7,021.156 ppb	7,926.497 ppb	20.819 ppb	11,692.021 ppb	88,309.129 ppb
Concentration per Run 1	87.685 %	80.364 %	0.017 ppb	139.163 ppb	7,498.055 ppb	8,394.284 ppb	21.162 ppb	12,190.195 ppb	91,650.818 ppb
Concentration per Run 2	88.190 %	88.359 %	0.014 ppb	137.366 ppb	6,845.465 ppb	7,663.082 ppb	19.488 ppb	11,382.860 ppb	86,468.087 ppb
Concentration per Run 3	87.155 %	93.618 %	0.028 ppb	138.106 ppb	6,719.947 ppb	7,722.125 ppb	21.807 ppb	11,503.007 ppb	86,808.483 ppb
Concentration RSD	0.6 %	7.6 %	37.1 %	0.7 %	5.9 %	5.1 %	5.7 %	3.7 %	3.3 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	107.938 %	99.827 %	0.545 ppb	1.693 ppb	2.196 ppb	27.817 ppb	0.466 ppb	0.361 ppb	2.000 ppb
Concentration per Run 1	108.596 %	96.506 %	0.660 ppb	1.828 ppb	2.345 ppb	32.182 ppb	0.504 ppb	0.403 ppb	2.137 ppb
Concentration per Run 2	105.876 %	102.007 %	0.531 ppb	1.636 ppb	2.126 ppb	26.228 ppb	0.448 ppb	0.379 ppb	2.003 ppb
Concentration per Run 3	109.343 %	100.968 %	0.444 ppb	1.613 ppb	2.117 ppb	25.042 ppb	0.447 ppb	0.301 ppb	1.859 ppb
Concentration RSD	1.7 %	2.9 %	20.0 %	7.0 %	5.9 %	13.8 %	7.0 %	14.8 %	7.0 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.193 ppb	103.059 %	100.907 %	0.190 ppb	0.929 ppb	308.493 ppb	15.713 ppb	96.468 %	95.701 %
Concentration per Run 1	0.187 ppb	103.513 %	97.700 %	0.159 ppb	0.822 ppb	315.750 ppb	16.660 ppb	97.629 %	91.837 %
Concentration per Run 2	0.219 ppb	102.975 %	102.037 %	0.218 ppb	0.942 ppb	303.874 ppb	15.277 ppb	97.873 %	98.335 %
Concentration per Run 3	0.174 ppb	102.689 %	102.983 %	0.193 ppb	1.024 ppb	305.854 ppb	15.202 ppb	93.901 %	96.931 %
Concentration RSD	11.9 %	0.4 %	2.8 %	15.7 %	11.0 %	2.1 %	5.2 %	2.3 %	3.6 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.005 ppb	98.873 %	100.710 %	0.636 ppb	27.932 ppb	103.265 %	104.080 %	103.700 %
Concentration per Run 1	0.000 ppb	0.006 ppb	98.419 %	96.541 %	0.598 ppb	27.591 ppb	103.349 %	100.692 %	104.773 %
Concentration per Run 2	0.000 ppb	0.004 ppb	100.071 %	101.290 %	0.655 ppb	28.178 ppb	104.852 %	105.585 %	105.417 %
Concentration per Run 3	-0.001 ppb	0.004 ppb	98.128 %	104.300 %	0.655 ppb	28.026 ppb	101.593 %	105.965 %	100.910 %
Concentration RSD	66.0 %	30.8 %	1.1 %	3.9 %	5.2 %	1.1 %	1.6 %	2.8 %	2.4 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	106.852 %	0.081 ppb	0.096 ppb	101.666 %	102.453 %
Concentration per Run 1	100.963 %	0.084 ppb	0.094 ppb	101.902 %	97.374 %
Concentration per Run 2	109.821 %	0.080 ppb	0.098 ppb	101.993 %	103.705 %
Concentration per Run 3	109.772 %	0.078 ppb	0.095 ppb	101.103 %	106.280 %
Concentration RSD	4.8 %	3.4 %	2.3 %	0.5 %	4.5 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	88	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2430219-03 6020TL	Rack	1		
Analysis started at:	6/10/2024 4:15:51 PM	Vial	57		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	85.611 %	85.273 %	0.016 ppb	132.196 ppb	15,337.147 ppb	12,805.224 ppb	4.939 ppb	18,530.625 ppb	143,423.156 ppb
Concentration per Run 1	84.727 %	83.099 %	0.020 ppb	133.782 ppb	16,493.489 ppb	13,389.507 ppb	5.533 ppb	19,248.974 ppb	150,164.579 ppb
Concentration per Run 2	86.485 %	89.200 %	0.016 ppb	129.515 ppb	15,352.528 ppb	12,295.769 ppb	3.107 ppb	17,871.044 ppb	140,928.286 ppb
Concentration per Run 3	85.620 %	83.520 %	0.013 ppb	133.290 ppb	14,165.425 ppb	12,730.397 ppb	6.176 ppb	18,471.855 ppb	139,176.601 ppb
Concentration RSD	1.0 %	4.0 %	20.6 %	1.8 %	7.6 %	4.3 %	32.8 %	3.7 %	4.1 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	101.673 %	99.254 %	2.990 ppb	1.659 ppb	7.356 ppb	21.922 ppb	0.793 ppb	0.698 ppb	3.050 ppb
Concentration per Run 1	108.757 %	96.976 %	3.096 ppb	1.778 ppb	7.659 ppb	23.422 ppb	0.823 ppb	0.749 ppb	3.127 ppb
Concentration per Run 2	106.756 %	100.416 %	3.052 ppb	1.609 ppb	7.192 ppb	20.425 ppb	0.805 ppb	0.705 ppb	3.044 ppb
Concentration per Run 3	89.506 %	100.368 %	2.821 ppb	1.588 ppb	7.215 ppb	21.919 ppb	0.750 ppb	0.641 ppb	2.978 ppb
Concentration RSD	10.4 %	2.0 %	4.9 %	6.3 %	3.6 %	6.8 %	4.8 %	7.8 %	2.4 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.431 ppb	101.957 %	97.658 %	0.587 ppb	0.949 ppb	646.797 ppb	6.250 ppb	91.825 %	93.206 %
Concentration per Run 1	0.500 ppb	101.239 %	95.456 %	0.597 ppb	1.224 ppb	670.556 ppb	6.453 ppb	89.144 %	88.998 %
Concentration per Run 2	0.421 ppb	102.839 %	97.525 %	0.606 ppb	0.943 ppb	635.249 ppb	6.100 ppb	94.826 %	95.573 %
Concentration per Run 3	0.373 ppb	101.792 %	99.992 %	0.557 ppb	0.679 ppb	634.586 ppb	6.198 ppb	91.503 %	95.048 %
Concentration RSD	14.9 %	0.8 %	2.3 %	4.5 %	28.7 %	3.2 %	2.9 %	3.1 %	3.9 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	-0.001 ppb	0.019 ppb	98.313 %	97.764 %	1.046 ppb	74.146 ppb	102.227 %	100.416 %	101.007 %
Concentration per Run 1	-0.001 ppb	0.015 ppb	98.277 %	95.865 %	1.036 ppb	74.063 ppb	101.578 %	95.782 %	101.450 %
Concentration per Run 2	-0.002 ppb	0.022 ppb	98.727 %	100.029 %	1.039 ppb	73.254 ppb	101.857 %	103.758 %	99.762 %
Concentration per Run 3	-0.001 ppb	0.020 ppb	97.936 %	97.399 %	1.063 ppb	75.120 ppb	103.247 %	101.709 %	101.810 %
Concentration RSD	42.0 %	19.2 %	0.4 %	2.2 %	1.4 %	1.3 %	0.9 %	4.1 %	1.1 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	103.939 %	0.215 ppb	0.038 ppb	98.559 %	99.860 %
Concentration per Run 1	99.524 %	0.221 ppb	0.036 ppb	96.258 %	97.720 %
Concentration per Run 2	107.081 %	0.213 ppb	0.041 ppb	98.871 %	100.466 %
Concentration per Run 3	105.214 %	0.209 ppb	0.038 ppb	100.546 %	101.392 %
Concentration RSD	3.8 %	2.8 %	6.3 %	2.2 %	1.9 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	89	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	6/10/2024 4:20:33 PM	Vial	9		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	88.185 %	90.042 %	60.810 ppb	61.251 ppb	5,928.420 ppb	5,911.144 ppb	64.138 ppb	6,036.946 ppb	6,426.233 ppb
Concentration per Run 1	88.632 %	88.149 %	60.535 ppb	61.700 ppb	6,115.179 ppb	6,160.823 ppb	68.232 ppb	6,185.477 ppb	6,536.166 ppb
Concentration per Run 2	88.343 %	87.728 %	61.407 ppb	61.113 ppb	6,019.937 ppb	5,987.722 ppb	60.790 ppb	6,073.394 ppb	6,476.415 ppb
Concentration per Run 3	87.579 %	94.250 %	60.488 ppb	60.941 ppb	5,650.144 ppb	5,584.887 ppb	63.393 ppb	5,851.967 ppb	6,266.118 ppb
Recovery Percentage 1			101.350 %	102.086 %	98.807 %	98.519 %	106.897 %	100.616 %	107.104 %
Concentration RSD	0.6 %	4.1 %	0.9 %	0.7 %	4.1 %	5.0 %	5.9 %	2.8 %	2.2 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	97.263 %	100.725 %	63.719 ppb	63.679 ppb	62.266 ppb	6,166.804 ppb	63.813 ppb	63.864 ppb	62.803 ppb
Concentration per Run 1	94.577 %	99.410 %	64.368 ppb	66.132 ppb	64.992 ppb	6,508.031 ppb	67.630 ppb	68.465 ppb	67.328 ppb
Concentration per Run 2	90.661 %	100.108 %	62.810 ppb	64.015 ppb	61.708 ppb	6,098.723 ppb	63.661 ppb	63.802 ppb	61.615 ppb
Concentration per Run 3	106.552 %	102.656 %	63.979 ppb	60.890 ppb	60.097 ppb	5,893.658 ppb	60.146 ppb	59.325 ppb	59.467 ppb
Recovery Percentage 1			106.198 %	106.132 %	103.776 %	102.780 %	106.354 %	106.441 %	104.672 %
Concentration RSD	8.5 %	1.7 %	1.3 %	4.1 %	4.0 %	5.1 %	5.9 %	7.2 %	6.5 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	61.786 ppb	100.891 %	95.639 %	60.040 ppb	61.517 ppb	62.613 ppb	58.142 ppb	98.466 %	97.876 %
Concentration per Run 1	64.910 ppb	101.707 %	90.506 %	62.769 ppb	67.158 ppb	66.550 ppb	63.524 ppb	99.273 %	92.533 %
Concentration per Run 2	61.324 ppb	99.975 %	97.271 %	59.333 ppb	58.031 ppb	60.118 ppb	55.122 ppb	97.900 %	100.490 %
Concentration per Run 3	59.124 ppb	100.991 %	99.139 %	58.017 ppb	59.362 ppb	61.171 ppb	55.780 ppb	98.226 %	100.604 %
Recovery Percentage 1	102.977 %			100.067 %	102.529 %	104.355 %	96.903 %		
Concentration RSD	4.7 %	0.9 %	4.7 %	4.1 %	8.0 %	5.5 %	8.0 %	0.7 %	4.7 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	61.352 ppb	61.285 ppb	100.137 %	99.999 %	55.413 ppb	59.839 ppb	105.164 %	102.867 %	103.031 %
Concentration per Run 1	64.540 ppb	64.766 ppb	100.251 %	95.361 %	59.391 ppb	58.881 ppb	104.970 %	96.154 %	103.717 %
Concentration per Run 2	60.167 ppb	60.143 ppb	99.495 %	101.213 %	53.566 ppb	60.137 ppb	105.907 %	106.579 %	101.353 %
Concentration per Run 3	59.350 ppb	58.947 ppb	100.666 %	103.423 %	53.283 ppb	60.498 ppb	104.614 %	105.867 %	104.023 %
Recovery Percentage 1	102.254 %	102.142 %			92.355 %	99.731 %			
Concentration RSD	4.5 %	5.0 %	0.6 %	4.2 %	6.2 %	1.4 %	0.6 %	5.7 %	1.4 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	105.893 %	60.288 ppb	61.043 ppb	102.315 %	104.313 %
Concentration per Run 1	99.440 %	60.385 ppb	59.688 ppb	102.446 %	99.403 %
Concentration per Run 2	108.992 %	61.118 ppb	61.690 ppb	101.865 %	104.890 %
Concentration per Run 3	109.249 %	59.360 ppb	61.752 ppb	102.633 %	108.647 %
Recovery Percentage 1		100.479 %	101.739 %		
Concentration RSD	5.3 %	1.5 %	1.9 %	0.4 %	4.5 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	90	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/10/2024 4:25:18 PM	Vial	10		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.980 %	89.621 %	0.027 ppb	0.478 ppb	-4.087 ppb	-0.162 ppb	-1.685 ppb	-14.372 ppb	-3.331 ppb
Concentration per Run 1	89.683 %	90.463 %	0.026 ppb	0.506 ppb	-3.025 ppb	-0.017 ppb	-0.883 ppb	-13.485 ppb	-6.758 ppb
Concentration per Run 2	90.978 %	80.364 %	0.027 ppb	0.469 ppb	-0.894 ppb	0.107 ppb	-1.631 ppb	-12.232 ppb	0.227 ppb
Concentration per Run 3	89.280 %	98.036 %	0.027 ppb	0.461 ppb	-8.343 ppb	-0.576 ppb	-2.541 ppb	-17.398 ppb	-3.462 ppb
Recovery Percentage 1			5.326 %	4.783 %	-4.087 %	-0.231 %	-16.850 %	-14.372 %	-3.331 %
Concentration RSD	1.0 %	9.9 %	3.2 %	5.0 %	93.9 %	224.9 %	49.3 %	18.7 %	104.9 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	105.305 %	97.771 %	0.000 ppb	0.005 ppb	0.010 ppb	2.727 ppb	0.007 ppb	0.007 ppb	0.002 ppb
Concentration per Run 1	106.059 %	96.603 %	-0.001 ppb	0.000 ppb	0.017 ppb	4.464 ppb	0.014 ppb	0.032 ppb	-0.003 ppb
Concentration per Run 2	104.341 %	95.905 %	-0.010 ppb	0.009 ppb	0.003 ppb	1.053 ppb	0.003 ppb	-0.014 ppb	-0.008 ppb
Concentration per Run 3	105.515 %	100.806 %	0.010 ppb	0.007 ppb	0.009 ppb	2.664 ppb	0.005 ppb	0.002 ppb	0.016 ppb
Recovery Percentage 1			-0.010 %	0.517 %	0.976 %	5.454 %	1.436 %	0.338 %	0.159 %
Concentration RSD	0.8 %	2.7 %	2,063.9 %	94.3 %	72.7 %	62.6 %	88.4 %	340.2 %	803.1 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.025 ppb	100.477 %	95.618 %	0.011 ppb	0.104 ppb	0.005 ppb	0.220 ppb	101.656 %	99.696 %
Concentration per Run 1	0.050 ppb	100.435 %	88.873 %	0.012 ppb	0.030 ppb	0.002 ppb	0.160 ppb	102.069 %	95.818 %
Concentration per Run 2	0.031 ppb	99.963 %	99.233 %	-0.021 ppb	0.156 ppb	0.006 ppb	0.257 ppb	100.264 %	101.116 %
Concentration per Run 3	-0.005 ppb	101.033 %	98.746 %	0.040 ppb	0.128 ppb	0.006 ppb	0.243 ppb	102.635 %	102.154 %
Recovery Percentage 1	0.508 %			2.105 %	2.088 %	0.954 %	11.009 %		
Concentration RSD	110.1 %	0.5 %	6.1 %	288.6 %	63.1 %	45.2 %	23.8 %	1.2 %	3.4 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.004 ppb	0.001 ppb	104.254 %	102.008 %	1.348 ppb	0.018 ppb	103.837 %	103.499 %	103.705 %
Concentration per Run 1	0.005 ppb	0.003 ppb	103.912 %	97.774 %	1.163 ppb	0.022 ppb	103.473 %	100.953 %	102.958 %
Concentration per Run 2	0.006 ppb	0.000 ppb	107.304 %	104.243 %	1.447 ppb	0.020 ppb	104.617 %	104.434 %	104.661 %
Concentration per Run 3	0.002 ppb	0.001 ppb	101.546 %	104.008 %	1.434 ppb	0.014 ppb	103.423 %	105.112 %	103.497 %
Recovery Percentage 1	1.051 %				33.701 %	3.696 %			
Concentration RSD	39.0 %	153.8 %	2.8 %	3.6 %	11.9 %	24.1 %	0.7 %	2.2 %	0.8 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	106.863 %	0.074 ppb	0.006 ppb	107.717 %	107.512 %
Concentration per Run 1	102.230 %	0.080 ppb	0.007 ppb	108.057 %	103.628 %
Concentration per Run 2	108.356 %	0.075 ppb	0.006 ppb	108.253 %	109.238 %
Concentration per Run 3	110.003 %	0.068 ppb	0.006 ppb	106.842 %	109.671 %
Recovery Percentage 1		7.437 %	0.626 %		
Concentration RSD	3.8 %	7.6 %	5.2 %	0.7 %	3.1 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	91	User name	ALPHALAB\ICPMSRQ	Comment	fb
Analysis label:	I2430219-10 6020TL	Rack	2		
Analysis started at:	6/10/2024 4:31:30 PM	Vial	3		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	91.697 %	92.567 %	0.018 ppb	0.578 ppb	2.086 ppb	4.116 ppb	8.672 ppb	-11.126 ppb	48.316 ppb
Concentration per Run 1	91.574 %	90.673 %	0.020 ppb	0.595 ppb	3.583 ppb	4.628 ppb	7.542 ppb	-12.517 ppb	50.103 ppb
Concentration per Run 2	92.785 %	91.725 %	0.013 ppb	0.565 ppb	2.501 ppb	5.209 ppb	10.360 ppb	-12.056 ppb	44.585 ppb
Concentration per Run 3	90.732 %	95.301 %	0.023 ppb	0.575 ppb	0.174 ppb	2.510 ppb	8.115 ppb	-8.805 ppb	50.259 ppb
Concentration RSD	1.1 %	2.6 %	25.8 %	2.7 %	83.5 %	34.5 %	17.2 %	18.2 %	6.7 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	102.057 %	102.532 %	0.005 ppb	0.349 ppb	0.952 ppb	14.767 ppb	0.004 ppb	0.079 ppb	0.086 ppb
Concentration per Run 1	92.352 %	98.988 %	0.011 ppb	0.375 ppb	1.023 ppb	16.644 ppb	0.005 ppb	0.102 ppb	0.119 ppb
Concentration per Run 2	108.233 %	103.435 %	0.005 ppb	0.352 ppb	0.924 ppb	16.297 ppb	0.001 ppb	0.099 ppb	0.068 ppb
Concentration per Run 3	105.584 %	105.171 %	0.000 ppb	0.318 ppb	0.909 ppb	11.361 ppb	0.005 ppb	0.037 ppb	0.071 ppb
Concentration RSD	8.3 %	3.1 %	106.3 %	8.2 %	6.5 %	20.0 %	57.6 %	46.3 %	33.6 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.752 ppb	100.865 %	98.091 %	0.002 ppb	0.007 ppb	0.116 ppb	0.100 ppb	103.776 %	100.719 %
Concentration per Run 1	0.847 ppb	101.485 %	94.633 %	-0.050 ppb	-0.030 ppb	0.135 ppb	0.082 ppb	103.792 %	97.594 %
Concentration per Run 2	0.699 ppb	101.901 %	98.055 %	0.023 ppb	0.057 ppb	0.113 ppb	0.102 ppb	104.257 %	102.751 %
Concentration per Run 3	0.710 ppb	99.210 %	101.585 %	0.033 ppb	-0.007 ppb	0.100 ppb	0.117 ppb	103.278 %	101.812 %
Concentration RSD	11.0 %	1.4 %	3.5 %	2,132.2 %	669.7 %	15.2 %	17.5 %	0.5 %	2.7 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.004 ppb	104.359 %	101.726 %	0.392 ppb	0.164 ppb	105.900 %	106.238 %	105.927 %
Concentration per Run 1	0.000 ppb	0.003 ppb	106.153 %	97.632 %	0.357 ppb	0.159 ppb	104.630 %	101.651 %	105.901 %
Concentration per Run 2	0.001 ppb	0.004 ppb	105.953 %	102.411 %	0.371 ppb	0.168 ppb	105.325 %	109.254 %	106.281 %
Concentration per Run 3	0.000 ppb	0.004 ppb	100.970 %	105.133 %	0.449 ppb	0.166 ppb	107.746 %	107.809 %	105.600 %
Concentration RSD	275.3 %	14.1 %	2.8 %	3.7 %	12.6 %	2.7 %	1.5 %	3.8 %	0.3 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	109.928 %	0.040 ppb	0.056 ppb	108.704 %	111.209 %
Concentration per Run 1	105.997 %	0.042 ppb	0.056 ppb	108.355 %	107.066 %
Concentration per Run 2	112.459 %	0.039 ppb	0.055 ppb	110.135 %	110.484 %
Concentration per Run 3	111.326 %	0.039 ppb	0.058 ppb	107.621 %	116.076 %
Concentration RSD	3.1 %	5.0 %	2.0 %	1.2 %	4.1 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 92
Analysis label: I2430219-05 6020TL
Analysis started at: 6/10/2024 4:36:10 PM
User name ALPHALAB\ICPMSRQ
Rack 1
Vial 58
Comment <Comment>

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.770 %	83.941 %	0.040 ppb	18.297 ppb	7,163.243 ppb	2,079.077 ppb	6.343 ppb	1,817.840 ppb	15,632.286 ppb
Concentration per Run 1	88.837 %	83.310 %	0.042 ppb	18.363 ppb	7,308.149 ppb	2,133.354 ppb	4.670 ppb	1,866.161 ppb	15,945.274 ppb
Concentration per Run 2	89.954 %	80.785 %	0.040 ppb	18.382 ppb	7,165.340 ppb	2,099.522 ppb	5.471 ppb	1,814.940 ppb	15,389.290 ppb
Concentration per Run 3	90.520 %	87.728 %	0.039 ppb	18.147 ppb	7,016.241 ppb	2,004.356 ppb	8.890 ppb	1,772.419 ppb	15,562.293 ppb
Concentration RSD	1.0 %	4.2 %	4.9 %	0.7 %	2.0 %	3.2 %	35.3 %	2.6 %	1.8 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	109.574 %	98.934 %	0.030 ppb	0.563 ppb	1.509 ppb	13.589 ppb	0.051 ppb	0.500 ppb	0.174 ppb
Concentration per Run 1	107.499 %	97.187 %	0.011 ppb	0.598 ppb	1.585 ppb	13.322 ppb	0.062 ppb	0.545 ppb	0.182 ppb
Concentration per Run 2	108.440 %	100.205 %	0.039 ppb	0.564 ppb	1.473 ppb	14.516 ppb	0.048 ppb	0.539 ppb	0.161 ppb
Concentration per Run 3	112.782 %	99.410 %	0.039 ppb	0.527 ppb	1.471 ppb	12.928 ppb	0.044 ppb	0.415 ppb	0.178 ppb
Concentration RSD	2.6 %	1.6 %	53.3 %	6.3 %	4.3 %	6.1 %	18.2 %	14.6 %	6.6 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.366 ppb	104.317 %	97.949 %	0.088 ppb	1.303 ppb	77.838 ppb	0.059 ppb	98.785 %	95.954 %
Concentration per Run 1	0.474 ppb	105.090 %	93.747 %	0.068 ppb	1.471 ppb	80.720 ppb	0.048 ppb	98.657 %	92.289 %
Concentration per Run 2	0.292 ppb	104.898 %	98.903 %	0.086 ppb	1.033 ppb	76.421 ppb	0.074 ppb	99.661 %	97.808 %
Concentration per Run 3	0.331 ppb	102.963 %	101.196 %	0.109 ppb	1.406 ppb	76.373 ppb	0.056 ppb	98.035 %	97.764 %
Concentration RSD	26.2 %	1.1 %	3.9 %	23.2 %	18.1 %	3.2 %	23.0 %	0.8 %	3.3 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.001 ppb	0.017 ppb	103.588 %	100.199 %	0.210 ppb	8.243 ppb	109.500 %	103.219 %	108.980 %
Concentration per Run 1	0.000 ppb	0.021 ppb	104.092 %	93.881 %	0.182 ppb	8.075 ppb	108.815 %	100.574 %	108.496 %
Concentration per Run 2	0.001 ppb	0.013 ppb	103.460 %	102.514 %	0.217 ppb	8.312 ppb	109.454 %	105.114 %	108.812 %
Concentration per Run 3	0.002 ppb	0.019 ppb	103.212 %	104.202 %	0.231 ppb	8.342 ppb	110.231 %	103.968 %	109.633 %
Concentration RSD	77.9 %	24.4 %	0.4 %	5.5 %	12.1 %	1.8 %	0.6 %	2.3 %	0.5 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	106.993 %	0.037 ppb	0.013 ppb	107.617 %	107.101 %
Concentration per Run 1	103.430 %	0.035 ppb	0.012 ppb	109.023 %	104.325 %
Concentration per Run 2	108.697 %	0.036 ppb	0.014 ppb	106.782 %	108.705 %
Concentration per Run 3	108.851 %	0.039 ppb	0.014 ppb	107.045 %	108.272 %
Concentration RSD	2.9 %	5.1 %	8.6 %	1.1 %	2.3 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 93 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: I2430219-06 6020TL Rack 1
Analysis started at: 6/10/2024 4:40:53 PM Vial 59

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	85.784 %	82.188 %	0.027 ppb	84.159 ppb	30,949.230 ppb	22,329.052 ppb	149.819 ppb	33,000.684 ppb	147,786.852 ppb
Concentration per Run 1	86.358 %	77.209 %	0.023 ppb	85.762 ppb	32,823.412 ppb	23,591.873 ppb	142.188 ppb	34,011.011 ppb	151,682.764 ppb
Concentration per Run 2	85.821 %	88.990 %	0.028 ppb	83.510 ppb	29,125.790 ppb	21,273.774 ppb	157.366 ppb	32,029.067 ppb	143,786.596 ppb
Concentration per Run 3	85.173 %	80.364 %	0.030 ppb	83.206 ppb	30,898.487 ppb	22,121.508 ppb	149.904 ppb	32,961.973 ppb	147,891.196 ppb
Concentration RSD	0.7 %	7.4 %	13.0 %	1.7 %	6.0 %	5.3 %	5.1 %	3.0 %	2.7 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	103.104 %	100.265 %	1.332 ppb	9.008 ppb	4,509.180 ppb	466.359 ppb	0.763 ppb	6.048 ppb	1.738 ppb
Concentration per Run 1	90.393 %	97.577 %	1.365 ppb	9.157 ppb	4,679.042 ppb	493.437 ppb	0.807 ppb	6.314 ppb	1.767 ppb
Concentration per Run 2	109.523 %	101.715 %	1.356 ppb	9.172 ppb	4,441.719 ppb	469.408 ppb	0.776 ppb	5.997 ppb	1.788 ppb
Concentration per Run 3	109.397 %	101.504 %	1.276 ppb	8.693 ppb	4,406.779 ppb	436.233 ppb	0.707 ppb	5.833 ppb	1.659 ppb
Concentration RSD	10.7 %	2.3 %	3.7 %	3.0 %	3.3 %	6.2 %	6.7 %	4.0 %	4.0 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	1.023 ppb	106.770 %	96.191 %	0.387 ppb	0.584 ppb	216.082 ppb	0.394 ppb	93.285 %	93.088 %
Concentration per Run 1	1.121 ppb	105.331 %	92.248 %	0.342 ppb	0.496 ppb	226.480 ppb	0.434 ppb	93.489 %	87.797 %
Concentration per Run 2	1.021 ppb	108.607 %	96.853 %	0.391 ppb	0.629 ppb	210.877 ppb	0.373 ppb	92.541 %	95.367 %
Concentration per Run 3	0.928 ppb	106.372 %	99.473 %	0.429 ppb	0.627 ppb	210.891 ppb	0.377 ppb	93.827 %	96.100 %
Concentration RSD	9.5 %	1.6 %	3.8 %	11.3 %	13.1 %	4.2 %	8.6 %	0.7 %	4.9 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.004 ppb	0.078 ppb	98.622 %	97.662 %	0.162 ppb	81.891 ppb	101.820 %	102.649 %	102.752 %
Concentration per Run 1	0.004 ppb	0.072 ppb	98.698 %	94.462 %	0.136 ppb	80.739 ppb	100.072 %	99.795 %	100.511 %
Concentration per Run 2	0.003 ppb	0.086 ppb	99.530 %	98.611 %	0.166 ppb	83.412 ppb	103.368 %	104.473 %	104.128 %
Concentration per Run 3	0.005 ppb	0.075 ppb	97.637 %	99.913 %	0.184 ppb	81.522 ppb	102.020 %	103.678 %	103.618 %
Concentration RSD	33.5 %	9.3 %	1.0 %	2.9 %	15.0 %	1.7 %	1.6 %	2.4 %	1.9 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	105.393 %	0.137 ppb	0.327 ppb	98.205 %	99.867 %
Concentration per Run 1	101.102 %	0.127 ppb	0.322 ppb	99.743 %	97.879 %
Concentration per Run 2	108.332 %	0.146 ppb	0.333 ppb	97.563 %	99.182 %
Concentration per Run 3	106.744 %	0.138 ppb	0.326 ppb	97.310 %	102.540 %
Concentration RSD	3.6 %	6.9 %	1.7 %	1.4 %	2.4 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	94	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2430219-07 6020TL	Rack	1		
Analysis started at:	6/10/2024 4:45:36 PM	Vial	60		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	86.943 %	86.606 %	0.015 ppb	123.635 ppb	22,412.732 ppb	11,879.554 ppb	2.177 ppb	12,071.024 ppb	113,495.825 ppb
Concentration per Run 1	87.591 %	82.679 %	0.012 ppb	121.037 ppb	23,704.829 ppb	12,343.877 ppb	1.801 ppb	12,599.026 ppb	117,366.595 ppb
Concentration per Run 2	86.253 %	87.517 %	0.017 ppb	125.899 ppb	21,962.874 ppb	11,738.108 ppb	3.598 ppb	11,803.611 ppb	112,740.233 ppb
Concentration per Run 3	86.984 %	89.621 %	0.018 ppb	123.968 ppb	21,570.494 ppb	11,556.675 ppb	1.134 ppb	11,810.435 ppb	110,380.647 ppb
Concentration RSD	0.8 %	4.1 %	21.0 %	2.0 %	5.1 %	3.5 %	58.5 %	3.8 %	3.1 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	104.047 %	97.528 %	0.323 ppb	1.058 ppb	81.677 ppb	9.529 ppb	0.283 ppb	0.755 ppb	1.264 ppb
Concentration per Run 1	109.899 %	94.688 %	0.389 ppb	1.077 ppb	85.407 ppb	10.268 ppb	0.297 ppb	0.774 ppb	1.330 ppb
Concentration per Run 2	91.442 %	99.475 %	0.343 ppb	1.035 ppb	79.666 ppb	10.275 ppb	0.282 ppb	0.716 ppb	1.198 ppb
Concentration per Run 3	110.801 %	98.421 %	0.237 ppb	1.062 ppb	79.959 ppb	8.045 ppb	0.272 ppb	0.774 ppb	1.264 ppb
Concentration RSD	10.5 %	2.6 %	24.1 %	2.0 %	4.0 %	13.5 %	4.4 %	4.5 %	5.2 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.289 ppb	104.384 %	99.273 %	0.201 ppb	0.233 ppb	409.482 ppb	0.171 ppb	92.386 %	93.856 %
Concentration per Run 1	0.343 ppb	103.752 %	95.855 %	0.139 ppb	0.349 ppb	424.721 ppb	0.158 ppb	93.777 %	91.010 %
Concentration per Run 2	0.261 ppb	104.770 %	101.069 %	0.234 ppb	0.239 ppb	397.581 ppb	0.154 ppb	90.903 %	94.767 %
Concentration per Run 3	0.264 ppb	104.631 %	100.894 %	0.232 ppb	0.112 ppb	406.144 ppb	0.200 ppb	92.479 %	95.792 %
Concentration RSD	16.0 %	0.5 %	3.0 %	27.0 %	50.7 %	3.4 %	15.1 %	1.6 %	2.7 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.014 ppb	97.604 %	98.700 %	0.155 ppb	76.537 ppb	104.366 %	102.022 %	105.086 %
Concentration per Run 1	0.000 ppb	0.010 ppb	99.719 %	95.126 %	0.137 ppb	74.736 ppb	103.841 %	96.820 %	105.168 %
Concentration per Run 2	-0.001 ppb	0.015 ppb	97.281 %	101.523 %	0.150 ppb	77.310 ppb	104.814 %	104.602 %	104.030 %
Concentration per Run 3	0.001 ppb	0.016 ppb	95.812 %	99.451 %	0.177 ppb	77.563 ppb	104.443 %	104.643 %	106.059 %
Concentration RSD	4,254.1 %	23.6 %	2.0 %	3.3 %	13.1 %	2.0 %	0.5 %	4.4 %	1.0 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	105.817 %	0.290 ppb	0.012 ppb	100.357 %	102.343 %
Concentration per Run 1	100.168 %	0.287 ppb	0.011 ppb	99.426 %	96.099 %
Concentration per Run 2	106.162 %	0.289 ppb	0.012 ppb	99.932 %	104.253 %
Concentration per Run 3	111.120 %	0.294 ppb	0.012 ppb	101.713 %	106.678 %
Concentration RSD	5.2 %	1.2 %	4.2 %	1.2 %	5.4 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	95	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2430219-08 6020TL	Rack	2		
Analysis started at:	6/10/2024 4:50:19 PM	Vial	1		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	86.937 %	86.676 %	0.014 ppb	37.391 ppb	30,890.512 ppb	4,077.340 ppb	4.869 ppb	24,879.097 ppb	41,620.164 ppb
Concentration per Run 1	86.716 %	86.255 %	0.015 ppb	37.933 ppb	31,477.478 ppb	4,101.117 ppb	5.365 ppb	25,156.194 ppb	42,665.341 ppb
Concentration per Run 2	87.632 %	85.834 %	0.011 ppb	37.072 ppb	30,850.669 ppb	4,065.358 ppb	5.320 ppb	24,852.810 ppb	41,295.509 ppb
Concentration per Run 3	86.462 %	87.938 %	0.015 ppb	37.169 ppb	30,343.387 ppb	4,065.546 ppb	3.923 ppb	24,628.288 ppb	40,899.642 ppb
Concentration RSD	0.7 %	1.3 %	18.0 %	1.3 %	1.8 %	0.5 %	16.8 %	1.1 %	2.2 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	110.390 %	99.297 %	0.317 ppb	1.128 ppb	12.246 ppb	12.378 ppb	0.218 ppb	1.030 ppb	2.486 ppb
Concentration per Run 1	109.416 %	97.690 %	0.307 ppb	1.138 ppb	12.545 ppb	12.339 ppb	0.215 ppb	1.057 ppb	2.590 ppb
Concentration per Run 2	109.749 %	98.988 %	0.356 ppb	1.096 ppb	12.135 ppb	12.868 ppb	0.221 ppb	0.971 ppb	2.456 ppb
Concentration per Run 3	112.005 %	101.212 %	0.290 ppb	1.149 ppb	12.057 ppb	11.927 ppb	0.217 ppb	1.063 ppb	2.411 ppb
Concentration RSD	1.3 %	1.8 %	10.9 %	2.5 %	2.1 %	3.8 %	1.5 %	5.0 %	3.7 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.151 ppb	106.496 %	99.192 %	0.184 ppb	0.425 ppb	156.122 ppb	2.190 ppb	95.922 %	97.478 %
Concentration per Run 1	0.133 ppb	104.323 %	95.043 %	0.237 ppb	0.493 ppb	162.309 ppb	2.286 ppb	96.845 %	94.944 %
Concentration per Run 2	0.138 ppb	107.044 %	102.686 %	0.134 ppb	0.444 ppb	149.524 ppb	2.211 ppb	95.672 %	99.658 %
Concentration per Run 3	0.182 ppb	108.120 %	99.847 %	0.181 ppb	0.336 ppb	156.531 ppb	2.074 ppb	95.249 %	97.833 %
Concentration RSD	17.5 %	1.8 %	3.9 %	28.1 %	19.0 %	4.1 %	4.9 %	0.9 %	2.4 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.008 ppb	100.021 %	98.227 %	0.137 ppb	63.716 ppb	105.032 %	104.300 %	105.262 %
Concentration per Run 1	-0.001 ppb	0.008 ppb	101.371 %	94.363 %	0.123 ppb	61.693 ppb	105.857 %	99.774 %	104.201 %
Concentration per Run 2	-0.001 ppb	0.011 ppb	98.607 %	99.654 %	0.143 ppb	64.693 ppb	105.046 %	105.873 %	104.992 %
Concentration per Run 3	0.001 ppb	0.007 ppb	100.085 %	100.665 %	0.143 ppb	64.760 ppb	104.192 %	107.252 %	106.594 %
Concentration RSD	745.9 %	21.0 %	1.4 %	3.4 %	8.2 %	2.7 %	0.8 %	3.8 %	1.2 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	110.265 %	0.199 ppb	0.015 ppb	101.198 %	103.467 %
Concentration per Run 1	105.397 %	0.196 ppb	0.015 ppb	101.686 %	100.683 %
Concentration per Run 2	111.829 %	0.207 ppb	0.015 ppb	100.299 %	104.440 %
Concentration per Run 3	113.568 %	0.194 ppb	0.014 ppb	101.608 %	105.279 %
Concentration RSD	3.9 %	3.5 %	3.8 %	0.8 %	2.4 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	96	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2430219-09 6020TL	Rack	2		
Analysis started at:	6/10/2024 4:55:00 PM	Vial	2		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	88.485 %	82.258 %	0.019 ppb	37.750 ppb	31,197.277 ppb	4,119.604 ppb	3.909 ppb	24,471.346 ppb	41,464.552 ppb
Concentration per Run 1	88.677 %	83.310 %	0.013 ppb	38.091 ppb	32,058.108 ppb	4,293.717 ppb	2.595 ppb	25,665.167 ppb	43,761.685 ppb
Concentration per Run 2	88.479 %	79.102 %	0.026 ppb	38.028 ppb	31,363.014 ppb	4,079.403 ppb	3.808 ppb	23,786.609 ppb	39,162.413 ppb
Concentration per Run 3	88.300 %	84.362 %	0.018 ppb	37.131 ppb	30,170.710 ppb	3,985.693 ppb	5.322 ppb	23,962.261 ppb	41,469.556 ppb
Concentration RSD	0.2 %	3.4 %	34.3 %	1.4 %	3.1 %	3.8 %	35.0 %	4.2 %	5.5 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	98.847 %	99.178 %	0.297 ppb	0.559 ppb	12.346 ppb	12.083 ppb	0.219 ppb	0.764 ppb	2.626 ppb
Concentration per Run 1	91.267 %	96.116 %	0.281 ppb	0.589 ppb	12.808 ppb	11.093 ppb	0.217 ppb	0.831 ppb	2.837 ppb
Concentration per Run 2	91.001 %	101.228 %	0.294 ppb	0.549 ppb	12.004 ppb	14.177 ppb	0.211 ppb	0.741 ppb	2.494 ppb
Concentration per Run 3	114.274 %	100.189 %	0.314 ppb	0.540 ppb	12.226 ppb	10.981 ppb	0.230 ppb	0.719 ppb	2.548 ppb
Concentration RSD	13.5 %	2.7 %	5.6 %	4.6 %	3.4 %	15.0 %	4.5 %	7.8 %	7.0 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.338 ppb	107.726 %	97.022 %	0.172 ppb	0.457 ppb	161.997 ppb	2.219 ppb	96.942 %	95.627 %
Concentration per Run 1	0.372 ppb	105.874 %	94.239 %	0.144 ppb	0.286 ppb	169.089 ppb	2.387 ppb	97.948 %	90.869 %
Concentration per Run 2	0.290 ppb	108.288 %	98.917 %	0.217 ppb	0.368 ppb	157.240 ppb	2.189 ppb	98.045 %	97.628 %
Concentration per Run 3	0.351 ppb	109.016 %	97.910 %	0.156 ppb	0.719 ppb	159.662 ppb	2.081 ppb	94.835 %	98.383 %
Concentration RSD	12.6 %	1.5 %	2.5 %	22.7 %	50.3 %	3.9 %	7.0 %	1.9 %	4.3 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.009 ppb	100.550 %	98.863 %	0.128 ppb	64.470 ppb	104.031 %	104.072 %	105.364 %
Concentration per Run 1	0.001 ppb	0.010 ppb	100.963 %	94.360 %	0.120 ppb	63.247 ppb	102.267 %	98.924 %	104.705 %
Concentration per Run 2	0.000 ppb	0.009 ppb	101.913 %	101.559 %	0.128 ppb	65.090 ppb	104.624 %	105.852 %	107.172 %
Concentration per Run 3	0.001 ppb	0.007 ppb	98.775 %	100.669 %	0.137 ppb	65.074 ppb	105.202 %	107.439 %	104.216 %
Concentration RSD	66.9 %	16.7 %	1.6 %	4.0 %	6.5 %	1.6 %	1.5 %	4.4 %	1.5 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.659 %	0.201 ppb	0.021 ppb	102.334 %	102.898 %
Concentration per Run 1	101.123 %	0.199 ppb	0.022 ppb	101.695 %	97.801 %
Concentration per Run 2	110.481 %	0.203 ppb	0.020 ppb	101.582 %	104.704 %
Concentration per Run 3	111.373 %	0.201 ppb	0.021 ppb	103.725 %	106.190 %
Concentration RSD	5.3 %	1.1 %	3.5 %	1.2 %	4.4 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 97
Analysis label: I2430219-04d10 6020TL
Analysis started at: 6/10/2024 4:59:42 PM
User name ALPHALAB\ICPMSRQ
Rack 2
Vial 4
Comment <Comment>

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	91.210 %	87.588 %	0.008 ppb	1.100 ppb	5,988.828 ppb	1,414.414 ppb	1.190 ppb	124.906 ppb	2,418.252 ppb
Concentration per Run 1	91.278 %	82.468 %	0.006 ppb	1.100 ppb	6,312.358 ppb	1,491.622 ppb	1.795 ppb	131.269 ppb	2,506.217 ppb
Concentration per Run 2	91.474 %	89.411 %	0.010 ppb	1.078 ppb	5,859.270 ppb	1,382.015 ppb	-0.502 ppb	124.970 ppb	2,316.051 ppb
Concentration per Run 3	90.879 %	90.883 %	0.007 ppb	1.124 ppb	5,794.855 ppb	1,369.605 ppb	2.277 ppb	118.480 ppb	2,432.489 ppb
Concentration RSD	0.3 %	5.1 %	24.7 %	2.1 %	4.7 %	4.7 %	124.8 %	5.1 %	4.0 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	97.102 %	98.139 %	0.037 ppb	0.664 ppb	0.538 ppb	6.701 ppb	0.019 ppb	0.299 ppb	0.013 ppb
Concentration per Run 1	91.184 %	95.094 %	0.034 ppb	0.657 ppb	0.569 ppb	7.445 ppb	0.021 ppb	0.277 ppb	0.028 ppb
Concentration per Run 2	108.401 %	99.459 %	0.035 ppb	0.715 ppb	0.523 ppb	6.194 ppb	0.015 ppb	0.287 ppb	0.007 ppb
Concentration per Run 3	91.720 %	99.865 %	0.043 ppb	0.620 ppb	0.523 ppb	6.465 ppb	0.023 ppb	0.332 ppb	0.004 ppb
Concentration RSD	10.1 %	2.7 %	13.3 %	7.2 %	4.9 %	9.8 %	19.3 %	9.9 %	99.6 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.210 ppb	102.766 %	98.521 %	0.030 ppb	-0.013 ppb	11.512 ppb	0.039 ppb	100.537 %	97.432 %
Concentration per Run 1	0.183 ppb	103.063 %	95.879 %	0.048 ppb	0.033 ppb	11.975 ppb	0.033 ppb	101.344 %	93.383 %
Concentration per Run 2	0.231 ppb	102.356 %	99.190 %	0.025 ppb	-0.053 ppb	11.363 ppb	0.037 ppb	99.630 %	99.570 %
Concentration per Run 3	0.216 ppb	102.879 %	100.494 %	0.015 ppb	-0.020 ppb	11.197 ppb	0.046 ppb	100.636 %	99.344 %
Concentration RSD	11.6 %	0.4 %	2.4 %	57.9 %	318.9 %	3.6 %	17.7 %	0.9 %	3.6 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.001 ppb	105.632 %	101.371 %	0.065 ppb	6.733 ppb	105.072 %	104.351 %	107.520 %
Concentration per Run 1	0.000 ppb	0.003 ppb	106.256 %	96.934 %	0.049 ppb	6.769 ppb	107.064 %	99.053 %	108.741 %
Concentration per Run 2	0.000 ppb	0.001 ppb	105.379 %	103.225 %	0.072 ppb	6.791 ppb	104.226 %	106.581 %	109.427 %
Concentration per Run 3	0.000 ppb	0.001 ppb	105.261 %	103.954 %	0.073 ppb	6.639 ppb	103.927 %	107.418 %	104.392 %
Concentration RSD	38.9 %	90.7 %	0.5 %	3.8 %	20.8 %	1.2 %	1.6 %	4.4 %	2.5 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	108.964 %	0.014 ppb	0.008 ppb	107.595 %	107.361 %
Concentration per Run 1	101.738 %	0.014 ppb	0.007 ppb	107.924 %	100.925 %
Concentration per Run 2	113.351 %	0.015 ppb	0.009 ppb	106.603 %	109.648 %
Concentration per Run 3	111.803 %	0.015 ppb	0.009 ppb	108.257 %	111.510 %
Concentration RSD	5.8 %	5.8 %	14.8 %	0.8 %	5.3 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	98	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	WG1930718-6d50 6020TL	Rack	2		
Analysis started at:	6/10/2024 5:04:23 PM	Vial	5		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	91.064 %	89.551 %	0.009 ppb	0.382 ppb	1,195.461 ppb	290.180 ppb	-0.760 ppb	18.471 ppb	507.660 ppb
Concentration per Run 1	92.355 %	82.258 %	0.009 ppb	0.388 ppb	1,283.855 ppb	305.646 ppb	-0.366 ppb	22.157 ppb	512.274 ppb
Concentration per Run 2	90.508 %	98.457 %	0.015 ppb	0.388 ppb	1,124.622 ppb	278.401 ppb	-0.202 ppb	17.419 ppb	549.748 ppb
Concentration per Run 3	90.330 %	87.938 %	0.001 ppb	0.371 ppb	1,177.904 ppb	286.493 ppb	-1.710 ppb	15.836 ppb	460.959 ppb
Concentration RSD	1.2 %	9.2 %	79.1 %	2.5 %	6.8 %	4.8 %	108.9 %	17.8 %	8.8 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	94.948 %	98.296 %	-0.005 ppb	0.142 ppb	0.144 ppb	2.086 ppb	0.007 ppb	0.085 ppb	0.006 ppb
Concentration per Run 1	88.586 %	96.262 %	-0.014 ppb	0.161 ppb	0.146 ppb	1.855 ppb	0.005 ppb	0.117 ppb	0.023 ppb
Concentration per Run 2	86.928 %	98.437 %	0.006 ppb	0.135 ppb	0.157 ppb	2.156 ppb	0.008 ppb	0.085 ppb	0.005 ppb
Concentration per Run 3	109.330 %	100.189 %	-0.007 ppb	0.130 ppb	0.129 ppb	2.247 ppb	0.008 ppb	0.052 ppb	-0.010 ppb
Concentration RSD	13.1 %	2.0 %	206.8 %	11.7 %	9.8 %	9.8 %	23.5 %	38.5 %	270.0 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.050 ppb	102.221 %	98.857 %	-0.008 ppb	-0.033 ppb	2.348 ppb	0.022 ppb	101.577 %	97.731 %
Concentration per Run 1	0.048 ppb	103.619 %	94.896 %	-0.033 ppb	-0.045 ppb	2.448 ppb	0.033 ppb	103.956 %	91.058 %
Concentration per Run 2	0.036 ppb	100.784 %	99.136 %	0.006 ppb	-0.010 ppb	2.331 ppb	0.017 ppb	101.278 %	101.698 %
Concentration per Run 3	0.066 ppb	102.259 %	102.540 %	0.002 ppb	-0.042 ppb	2.264 ppb	0.015 ppb	99.498 %	100.437 %
Concentration RSD	29.6 %	1.4 %	3.9 %	258.6 %	59.4 %	4.0 %	47.5 %	2.2 %	5.9 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	-0.001 ppb	0.002 ppb	104.210 %	104.822 %	0.053 ppb	1.352 ppb	105.025 %	104.962 %	105.538 %
Concentration per Run 1	-0.001 ppb	0.003 ppb	104.833 %	98.125 %	0.043 ppb	1.385 ppb	103.773 %	99.427 %	105.450 %
Concentration per Run 2	-0.001 ppb	0.002 ppb	103.622 %	107.256 %	0.051 ppb	1.329 ppb	106.702 %	107.025 %	106.681 %
Concentration per Run 3	-0.001 ppb	0.003 ppb	104.175 %	109.085 %	0.064 ppb	1.343 ppb	104.599 %	108.434 %	104.482 %
Concentration RSD	10.8 %	28.0 %	0.6 %	5.6 %	19.7 %	2.1 %	1.4 %	4.6 %	1.0 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	108.135 %	0.013 ppb	0.004 ppb	111.086 %	109.014 %
Concentration per Run 1	103.097 %	0.013 ppb	0.004 ppb	110.266 %	101.041 %
Concentration per Run 2	111.248 %	0.013 ppb	0.004 ppb	110.858 %	114.386 %
Concentration per Run 3	110.060 %	0.013 ppb	0.004 ppb	112.133 %	111.615 %
Concentration RSD	4.1 %	0.3 %	8.5 %	0.9 %	6.5 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	99	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2430219-01d10 6020TL	Rack	2		
Analysis started at:	6/10/2024 5:09:05 PM	Vial	6		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	91.197 %	86.886 %	0.006 ppb	6.789 ppb	4,824.531 ppb	16.947 ppb	91.602 ppb	2,240.060 ppb	11,364.079 ppb
Concentration per Run 1	91.154 %	86.045 %	0.006 ppb	6.791 ppb	4,929.233 ppb	18.571 ppb	86.461 ppb	2,336.390 ppb	12,080.762 ppb
Concentration per Run 2	91.395 %	87.307 %	0.005 ppb	6.856 ppb	4,779.528 ppb	15.373 ppb	99.703 ppb	2,198.353 ppb	11,160.272 ppb
Concentration per Run 3	91.041 %	87.307 %	0.007 ppb	6.720 ppb	4,764.834 ppb	16.896 ppb	88.643 ppb	2,185.437 ppb	10,851.204 ppb
Concentration RSD	0.2 %	0.8 %	22.6 %	1.0 %	1.9 %	9.4 %	7.8 %	3.7 %	5.6 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	103.835 %	97.766 %	1.999 ppb	0.055 ppb	70.276 ppb	30.020 ppb	0.056 ppb	0.487 ppb	0.126 ppb
Concentration per Run 1	108.941 %	92.595 %	2.193 ppb	0.062 ppb	74.557 ppb	30.022 ppb	0.075 ppb	0.532 ppb	0.123 ppb
Concentration per Run 2	92.020 %	99.167 %	1.890 ppb	0.045 ppb	68.954 ppb	29.420 ppb	0.054 ppb	0.454 ppb	0.115 ppb
Concentration per Run 3	110.544 %	101.536 %	1.915 ppb	0.059 ppb	67.318 ppb	30.618 ppb	0.041 ppb	0.474 ppb	0.140 ppb
Concentration RSD	9.9 %	4.7 %	8.4 %	16.3 %	5.4 %	2.0 %	30.2 %	8.3 %	10.2 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.087 ppb	102.167 %	98.765 %	0.436 ppb	0.111 ppb	88.991 ppb	2.359 ppb	99.850 %	96.229 %
Concentration per Run 1	0.131 ppb	102.969 %	94.189 %	0.460 ppb	0.203 ppb	93.111 ppb	2.538 ppb	102.078 %	92.182 %
Concentration per Run 2	0.064 ppb	100.965 %	99.994 %	0.478 ppb	0.085 ppb	86.345 ppb	2.294 ppb	98.777 %	97.837 %
Concentration per Run 3	0.067 ppb	102.567 %	102.111 %	0.370 ppb	0.045 ppb	87.516 ppb	2.246 ppb	98.694 %	98.670 %
Concentration RSD	43.0 %	1.0 %	4.2 %	13.3 %	74.3 %	4.1 %	6.6 %	1.9 %	3.7 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.000 ppb	102.363 %	102.130 %	0.130 ppb	0.810 ppb	106.603 %	104.488 %	108.136 %
Concentration per Run 1	-0.001 ppb	0.000 ppb	102.341 %	95.455 %	0.129 ppb	0.811 ppb	106.181 %	102.580 %	106.617 %
Concentration per Run 2	-0.001 ppb	0.001 ppb	102.060 %	106.352 %	0.115 ppb	0.785 ppb	108.519 %	105.210 %	109.103 %
Concentration per Run 3	0.000 ppb	0.000 ppb	102.689 %	104.582 %	0.145 ppb	0.833 ppb	105.109 %	105.673 %	108.687 %
Concentration RSD	159.0 %	21,946.3 %	0.3 %	5.7 %	11.2 %	3.0 %	1.6 %	1.6 %	1.2 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	110.143 %	0.013 ppb	0.005 ppb	108.398 %	108.183 %
Concentration per Run 1	103.919 %	0.013 ppb	0.005 ppb	108.869 %	104.252 %
Concentration per Run 2	112.116 %	0.013 ppb	0.005 ppb	107.439 %	109.200 %
Concentration per Run 3	114.395 %	0.012 ppb	0.005 ppb	108.885 %	111.099 %
Concentration RSD	5.0 %	3.5 %	3.8 %	0.8 %	3.3 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 100
Analysis label: I2430219-06d10 6020TL
Analysis started at: 6/10/2024 5:13:46 PM
User name ALPHALAB\ICPMSRQ
Rack 2
Vial 7
Comment <Comment>

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	90.754 %	84.993 %	0.006 ppb	8.317 ppb	3,667.781 ppb	2,357.523 ppb	18.224 ppb	3,532.910 ppb	15,910.205 ppb
Concentration per Run 1	91.152 %	82.468 %	0.008 ppb	8.384 ppb	3,770.655 ppb	2,487.898 ppb	20.940 ppb	3,641.888 ppb	16,189.291 ppb
Concentration per Run 2	90.177 %	84.782 %	0.005 ppb	8.275 ppb	3,658.303 ppb	2,296.518 ppb	18.651 ppb	3,458.496 ppb	16,027.450 ppb
Concentration per Run 3	90.933 %	87.728 %	0.006 ppb	8.293 ppb	3,574.383 ppb	2,288.153 ppb	15.082 ppb	3,498.347 ppb	15,513.874 ppb
Concentration RSD	0.6 %	3.1 %	25.6 %	0.7 %	2.7 %	4.8 %	16.2 %	2.7 %	2.2 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	107.394 %	96.787 %	0.141 ppb	0.931 ppb	518.868 ppb	48.133 ppb	0.092 ppb	0.697 ppb	0.202 ppb
Concentration per Run 1	107.131 %	96.246 %	0.130 ppb	0.968 ppb	530.496 ppb	50.699 ppb	0.093 ppb	0.724 ppb	0.176 ppb
Concentration per Run 2	107.370 %	95.483 %	0.190 ppb	0.927 ppb	515.108 ppb	48.210 ppb	0.098 ppb	0.692 ppb	0.222 ppb
Concentration per Run 3	107.680 %	98.631 %	0.103 ppb	0.900 ppb	510.998 ppb	45.489 ppb	0.085 ppb	0.677 ppb	0.208 ppb
Concentration RSD	0.3 %	1.7 %	31.5 %	3.7 %	2.0 %	5.4 %	6.8 %	3.5 %	11.6 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	1.244 ppb	103.213 %	96.335 %	0.045 ppb	0.015 ppb	23.251 ppb	0.059 ppb	99.328 %	95.310 %
Concentration per Run 1	1.344 ppb	102.985 %	92.242 %	0.079 ppb	-0.002 ppb	23.792 ppb	0.070 ppb	99.602 %	91.364 %
Concentration per Run 2	1.165 ppb	102.904 %	97.296 %	-0.009 ppb	-0.012 ppb	23.102 ppb	0.053 ppb	98.908 %	95.289 %
Concentration per Run 3	1.222 ppb	103.749 %	99.467 %	0.066 ppb	0.058 ppb	22.858 ppb	0.053 ppb	99.474 %	99.277 %
Concentration RSD	7.3 %	0.5 %	3.8 %	105.3 %	256.9 %	2.1 %	16.9 %	0.4 %	4.2 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.012 ppb	103.134 %	102.215 %	0.048 ppb	8.062 ppb	107.794 %	104.448 %	106.827 %
Concentration per Run 1	0.000 ppb	0.017 ppb	101.911 %	96.947 %	0.046 ppb	7.984 ppb	108.175 %	99.170 %	107.893 %
Concentration per Run 2	0.000 ppb	0.008 ppb	103.983 %	105.299 %	0.046 ppb	8.071 ppb	106.046 %	106.648 %	108.504 %
Concentration per Run 3	0.000 ppb	0.012 ppb	103.509 %	104.400 %	0.052 ppb	8.132 ppb	109.161 %	107.525 %	104.083 %
Concentration RSD	480.9 %	34.6 %	1.1 %	4.5 %	7.9 %	0.9 %	1.5 %	4.4 %	2.2 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.646 %	0.022 ppb	0.036 ppb	106.720 %	106.041 %
Concentration per Run 1	101.038 %	0.022 ppb	0.037 ppb	104.750 %	100.823 %
Concentration per Run 2	110.404 %	0.021 ppb	0.036 ppb	106.847 %	106.532 %
Concentration per Run 3	111.495 %	0.023 ppb	0.034 ppb	108.562 %	110.768 %
Concentration RSD	5.3 %	5.0 %	4.4 %	1.8 %	4.7 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 101 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: CCV Rack 0
Analysis started at: 6/10/2024 5:18:28 PM Vial 9

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.025 %	85.554 %	59.174 ppb	60.085 ppb	5,999.189 ppb	6,061.032 ppb	63.046 ppb	5,911.216 ppb	6,347.856 ppb
Concentration per Run 1	89.756 %	83.941 %	59.543 ppb	59.557 ppb	6,207.109 ppb	6,161.725 ppb	60.620 ppb	6,032.188 ppb	6,411.488 ppb
Concentration per Run 2	88.274 %	90.042 %	59.234 ppb	60.368 ppb	5,812.861 ppb	5,933.891 ppb	67.085 ppb	5,952.635 ppb	6,122.967 ppb
Concentration per Run 3	89.045 %	82.679 %	58.745 ppb	60.331 ppb	5,977.596 ppb	6,087.479 ppb	61.432 ppb	5,748.825 ppb	6,509.113 ppb
Recovery Percentage 1			98.624 %	100.142 %	99.986 %	101.017 %	105.076 %	98.520 %	105.798 %
Concentration RSD	0.8 %	4.6 %	0.7 %	0.8 %	3.3 %	1.9 %	5.6 %	2.5 %	3.2 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	109.390 %	100.925 %	62.578 ppb	63.515 ppb	61.369 ppb	6,192.203 ppb	62.113 ppb	63.537 ppb	61.081 ppb
Concentration per Run 1	112.392 %	99.345 %	66.196 ppb	66.497 ppb	64.719 ppb	6,575.725 ppb	66.029 ppb	68.228 ppb	66.410 ppb
Concentration per Run 2	109.425 %	99.638 %	62.118 ppb	63.612 ppb	60.441 ppb	6,079.800 ppb	60.623 ppb	61.978 ppb	59.417 ppb
Concentration per Run 3	106.354 %	103.792 %	59.420 ppb	60.437 ppb	58.946 ppb	5,921.083 ppb	59.688 ppb	60.406 ppb	57.418 ppb
Recovery Percentage 1			104.297 %	105.859 %	102.281 %	103.203 %	103.522 %	105.895 %	101.802 %
Concentration RSD	2.8 %	2.5 %	5.5 %	4.8 %	4.9 %	5.5 %	5.5 %	6.5 %	7.7 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	60.290 ppb	103.966 %	95.309 %	59.560 ppb	62.338 ppb	62.317 ppb	59.607 ppb	98.033 %	96.562 %
Concentration per Run 1	65.296 ppb	103.032 %	88.301 %	63.308 ppb	66.116 ppb	65.470 ppb	61.941 ppb	99.207 %	91.316 %
Concentration per Run 2	59.039 ppb	104.328 %	96.938 %	58.156 ppb	60.813 ppb	60.944 ppb	60.218 ppb	95.986 %	99.806 %
Concentration per Run 3	56.537 ppb	104.538 %	100.689 %	57.215 ppb	60.086 ppb	60.537 ppb	56.661 ppb	98.907 %	98.563 %
Recovery Percentage 1	100.484 %			99.266 %	103.897 %	103.862 %	99.345 %		
Concentration RSD	7.5 %	0.8 %	6.7 %	5.5 %	5.3 %	4.4 %	4.5 %	1.8 %	4.7 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	60.685 ppb	62.347 ppb	103.135 %	99.001 %	55.767 ppb	59.787 ppb	107.219 %	104.226 %	106.204 %
Concentration per Run 1	64.251 ppb	65.865 ppb	104.829 %	94.148 %	59.573 ppb	59.154 ppb	106.298 %	98.905 %	103.211 %
Concentration per Run 2	57.750 ppb	60.515 ppb	103.785 %	101.048 %	53.857 ppb	60.063 ppb	107.619 %	106.098 %	106.512 %
Concentration per Run 3	60.053 ppb	60.661 ppb	100.791 %	101.808 %	53.872 ppb	60.143 ppb	107.741 %	107.675 %	108.888 %
Recovery Percentage 1	101.141 %	103.912 %			92.945 %	99.645 %			
Concentration RSD	5.4 %	4.9 %	2.0 %	4.3 %	5.9 %	0.9 %	0.7 %	4.5 %	2.7 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.714 %	60.431 ppb	61.021 ppb	104.577 %	106.995 %
Concentration per Run 1	100.599 %	60.403 ppb	60.727 ppb	103.737 %	100.737 %
Concentration per Run 2	109.594 %	59.542 ppb	60.230 ppb	106.303 %	109.276 %
Concentration per Run 3	112.949 %	61.348 ppb	62.106 ppb	103.692 %	110.973 %
Recovery Percentage 1		100.718 %	101.702 %		
Concentration RSD	5.9 %	1.5 %	1.6 %	1.4 %	5.1 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	102	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/10/2024 5:23:14 PM	Vial	10		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	91.860 %	87.307 %	0.022 ppb	0.312 ppb	-5.966 ppb	-0.281 ppb	-1.568 ppb	-18.888 ppb	5.661 ppb
Concentration per Run 1	92.544 %	88.569 %	0.018 ppb	0.330 ppb	-6.206 ppb	-0.948 ppb	-1.681 ppb	-19.838 ppb	10.837 ppb
Concentration per Run 2	91.802 %	85.624 %	0.025 ppb	0.293 ppb	-5.220 ppb	0.162 ppb	-1.286 ppb	-15.540 ppb	-0.175 ppb
Concentration per Run 3	91.233 %	87.728 %	0.022 ppb	0.312 ppb	-6.471 ppb	-0.058 ppb	-1.736 ppb	-21.285 ppb	6.321 ppb
Recovery Percentage 1			4.301 %	3.116 %	-5.966 %	-0.402 %	-15.680 %	-18.888 %	5.661 %
Concentration RSD	0.7 %	1.7 %	16.5 %	5.9 %	11.1 %	209.0 %	15.6 %	15.8 %	97.8 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	88.384 %	99.995 %	0.006 ppb	-0.015 ppb	0.057 ppb	3.563 ppb	0.005 ppb	0.016 ppb	0.003 ppb
Concentration per Run 1	89.382 %	95.581 %	-0.010 ppb	-0.015 ppb	0.071 ppb	3.043 ppb	0.009 ppb	0.005 ppb	-0.001 ppb
Concentration per Run 2	87.544 %	100.189 %	0.018 ppb	-0.007 ppb	0.044 ppb	3.984 ppb	0.002 ppb	0.034 ppb	-0.005 ppb
Concentration per Run 3	88.225 %	104.214 %	0.008 ppb	-0.024 ppb	0.055 ppb	3.662 ppb	0.003 ppb	0.010 ppb	0.015 ppb
Recovery Percentage 1			0.110 %	-1.538 %	5.651 %	7.126 %	0.943 %	0.817 %	0.280 %
Concentration RSD	1.1 %	4.3 %	253.2 %	52.9 %	24.4 %	13.4 %	70.7 %	95.7 %	384.8 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	-0.008 ppb	101.195 %	97.784 %	0.001 ppb	0.058 ppb	0.009 ppb	0.199 ppb	102.570 %	99.205 %
Concentration per Run 1	-0.035 ppb	99.910 %	92.335 %	0.010 ppb	0.094 ppb	0.013 ppb	0.142 ppb	100.101 %	94.049 %
Concentration per Run 2	-0.023 ppb	101.549 %	101.795 %	-0.020 ppb	-0.015 ppb	0.018 ppb	0.208 ppb	103.610 %	100.942 %
Concentration per Run 3	0.033 ppb	102.126 %	99.224 %	0.012 ppb	0.094 ppb	-0.005 ppb	0.246 ppb	103.998 %	102.622 %
Recovery Percentage 1	-0.168 %			0.143 %	1.156 %	1.718 %	9.926 %		
Concentration RSD	429.1 %	1.1 %	5.0 %	2,498.1 %	108.6 %	135.2 %	26.5 %	2.1 %	4.6 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.007 ppb	0.004 ppb	104.279 %	101.756 %	1.316 ppb	0.013 ppb	106.300 %	103.872 %	105.289 %
Concentration per Run 1	0.008 ppb	0.008 ppb	104.593 %	95.647 %	1.200 ppb	0.014 ppb	107.152 %	98.907 %	103.833 %
Concentration per Run 2	0.009 ppb	0.000 ppb	104.155 %	104.074 %	1.352 ppb	0.015 ppb	108.159 %	105.937 %	106.882 %
Concentration per Run 3	0.004 ppb	0.004 ppb	104.089 %	105.547 %	1.396 ppb	0.010 ppb	103.589 %	106.773 %	105.152 %
Recovery Percentage 1	1.736 %				32.898 %	2.665 %			
Concentration RSD	32.3 %	108.1 %	0.3 %	5.2 %	7.8 %	19.0 %	2.3 %	4.2 %	1.5 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	106.908 %	0.056 ppb	0.007 ppb	110.676 %	110.259 %
Concentration per Run 1	103.664 %	0.061 ppb	0.007 ppb	111.487 %	105.059 %
Concentration per Run 2	107.528 %	0.057 ppb	0.006 ppb	111.058 %	110.369 %
Concentration per Run 3	109.533 %	0.051 ppb	0.006 ppb	109.484 %	115.349 %
Recovery Percentage 1		5.608 %	0.666 %		
Concentration RSD	2.8 %	9.4 %	8.4 %	1.0 %	4.7 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	103	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	WG1930675-1 6020SL	Rack	2		
Analysis started at:	6/10/2024 5:29:02 PM	Vial	10		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	91.505 %	87.728 %	0.016 ppb	0.345 ppb	-3.396 ppb	0.924 ppb	0.937 ppb	-12.882 ppb	13.749 ppb
Concentration per Run 1	91.911 %	78.892 %	0.023 ppb	0.341 ppb	-2.082 ppb	1.332 ppb	1.454 ppb	-10.002 ppb	7.159 ppb
Concentration per Run 2	90.835 %	93.198 %	0.012 ppb	0.352 ppb	-3.278 ppb	1.174 ppb	1.872 ppb	-15.893 ppb	10.505 ppb
Concentration per Run 3	91.770 %	91.094 %	0.012 ppb	0.341 ppb	-4.828 ppb	0.265 ppb	-0.515 ppb	-12.751 ppb	23.582 ppb
Concentration RSD	0.6 %	8.8 %	39.3 %	1.8 %	40.5 %	62.4 %	136.1 %	22.9 %	63.1 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	102.713 %	97.274 %	-0.009 ppb	-0.046 ppb	0.044 ppb	0.728 ppb	-0.001 ppb	0.002 ppb	0.052 ppb
Concentration per Run 1	106.909 %	94.802 %	-0.009 ppb	-0.032 ppb	0.063 ppb	1.387 ppb	0.003 ppb	-0.010 ppb	0.041 ppb
Concentration per Run 2	93.360 %	98.031 %	-0.006 ppb	-0.063 ppb	0.036 ppb	0.555 ppb	-0.004 ppb	0.017 ppb	0.049 ppb
Concentration per Run 3	107.869 %	98.988 %	-0.011 ppb	-0.043 ppb	0.033 ppb	0.242 ppb	-0.001 ppb	-0.002 ppb	0.065 ppb
Concentration RSD	7.9 %	2.3 %	26.8 %	34.3 %	37.4 %	81.3 %	581.8 %	709.0 %	23.4 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.159 ppb	102.500 %	96.325 %	0.021 ppb	0.037 ppb	0.027 ppb	0.058 ppb	102.105 %	99.459 %
Concentration per Run 1	0.200 ppb	103.211 %	90.626 %	0.017 ppb	0.098 ppb	0.043 ppb	0.045 ppb	102.399 %	92.652 %
Concentration per Run 2	0.155 ppb	102.774 %	97.500 %	0.039 ppb	0.027 ppb	-0.002 ppb	0.081 ppb	102.151 %	101.939 %
Concentration per Run 3	0.120 ppb	101.515 %	100.850 %	0.008 ppb	-0.015 ppb	0.041 ppb	0.049 ppb	101.764 %	103.784 %
Concentration RSD	25.4 %	0.9 %	5.4 %	75.6 %	155.1 %	92.6 %	33.5 %	0.3 %	6.0 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.001 ppb	0.001 ppb	105.139 %	102.645 %	0.354 ppb	0.023 ppb	105.316 %	102.890 %	105.229 %
Concentration per Run 1	0.000 ppb	0.003 ppb	105.963 %	98.933 %	0.320 ppb	0.022 ppb	103.906 %	96.604 %	103.003 %
Concentration per Run 2	0.000 ppb	0.001 ppb	104.941 %	102.088 %	0.350 ppb	0.026 ppb	106.345 %	104.951 %	106.037 %
Concentration per Run 3	0.002 ppb	0.001 ppb	104.512 %	106.913 %	0.391 ppb	0.022 ppb	105.697 %	107.116 %	106.646 %
Concentration RSD	187.3 %	91.4 %	0.7 %	3.9 %	10.1 %	11.1 %	1.2 %	5.4 %	1.9 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	106.271 %	0.023 ppb	0.016 ppb	109.449 %	108.998 %
Concentration per Run 1	101.564 %	0.023 ppb	0.019 ppb	108.317 %	105.340 %
Concentration per Run 2	107.467 %	0.024 ppb	0.015 ppb	109.549 %	109.971 %
Concentration per Run 3	109.780 %	0.022 ppb	0.015 ppb	110.481 %	111.684 %
Concentration RSD	4.0 %	2.8 %	15.2 %	1.0 %	3.0 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	104	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	WG1930675-2d10 6020SL	Rack	2		
Analysis started at:	6/10/2024 5:33:45 PM	Vial	11		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	90.206 %	85.343 %	5.166 ppb	104.673 ppb	1,095.572 ppb	1,065.571 ppb	220.194 ppb	1,047.611 ppb	1,071.981 ppb
Concentration per Run 1	90.133 %	85.624 %	5.137 ppb	106.395 ppb	1,107.262 ppb	1,098.115 ppb	221.066 ppb	1,058.125 ppb	1,122.555 ppb
Concentration per Run 2	90.185 %	87.938 %	5.284 ppb	106.519 ppb	1,073.195 ppb	1,021.975 ppb	220.007 ppb	1,048.774 ppb	1,140.684 ppb
Concentration per Run 3	90.299 %	82.468 %	5.078 ppb	101.106 ppb	1,106.259 ppb	1,076.623 ppb	219.511 ppb	1,035.936 ppb	952.703 ppb
Concentration RSD	0.1 %	3.2 %	2.1 %	3.0 %	1.8 %	3.7 %	0.4 %	1.1 %	9.7 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	96.378 %	99.367 %	53.319 ppb	21.937 ppb	54.052 ppb	106.865 ppb	54.012 ppb	53.534 ppb	26.353 ppb
Concentration per Run 1	89.733 %	99.410 %	53.965 ppb	22.333 ppb	54.583 ppb	106.018 ppb	54.464 ppb	55.346 ppb	26.907 ppb
Concentration per Run 2	92.551 %	98.567 %	52.301 ppb	21.874 ppb	53.238 ppb	108.239 ppb	53.045 ppb	52.010 ppb	25.481 ppb
Concentration per Run 3	106.851 %	100.124 %	53.691 ppb	21.603 ppb	54.336 ppb	106.339 ppb	54.526 ppb	53.245 ppb	26.672 ppb
Concentration RSD	9.5 %	0.8 %	1.7 %	1.7 %	1.3 %	1.1 %	1.6 %	3.2 %	2.9 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	51.208 ppb	101.547 %	96.762 %	12.073 ppb	11.652 ppb	104.276 ppb	99.949 ppb	102.454 %	98.647 %
Concentration per Run 1	52.619 ppb	103.932 %	94.553 %	12.480 ppb	11.092 ppb	106.514 ppb	105.047 ppb	103.570 %	93.516 %
Concentration per Run 2	50.130 ppb	99.055 %	99.575 %	11.683 ppb	11.273 ppb	101.998 ppb	97.807 ppb	100.945 %	100.406 %
Concentration per Run 3	50.876 ppb	101.653 %	96.159 %	12.057 ppb	12.591 ppb	104.316 ppb	96.992 ppb	102.846 %	102.017 %
Concentration RSD	2.5 %	2.4 %	2.7 %	3.3 %	7.0 %	2.2 %	4.4 %	1.3 %	4.6 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	5.135 ppb	5.484 ppb	105.454 %	103.625 %	49.634 ppb	221.738 ppb	105.691 %	103.354 %	106.677 %
Concentration per Run 1	5.384 ppb	5.752 ppb	107.547 %	97.651 %	53.136 ppb	220.817 ppb	106.855 %	97.511 %	106.646 %
Concentration per Run 2	5.091 ppb	5.436 ppb	104.360 %	104.888 %	48.363 ppb	221.665 ppb	107.072 %	105.981 %	108.868 %
Concentration per Run 3	4.932 ppb	5.263 ppb	104.454 %	108.337 %	47.401 ppb	222.734 ppb	103.147 %	106.570 %	104.516 %
Concentration RSD	4.5 %	4.5 %	1.7 %	5.3 %	6.2 %	0.4 %	2.1 %	4.9 %	2.0 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.332 %	10.139 ppb	56.248 ppb	106.067 %	108.248 %
Concentration per Run 1	101.052 %	10.016 ppb	55.750 ppb	107.276 %	102.715 %
Concentration per Run 2	109.408 %	10.282 ppb	56.997 ppb	105.212 %	110.183 %
Concentration per Run 3	111.535 %	10.120 ppb	55.996 ppb	105.714 %	111.845 %
Concentration RSD	5.2 %	1.3 %	1.2 %	1.0 %	4.5 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	105	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2430217-14 6020SL	Rack	2		
Analysis started at:	6/10/2024 5:38:28 PM	Vial	12		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.000 %	88.008 %	0.023 ppb	24.703 ppb	8,210.816 ppb	3,969.244 ppb	2.940 ppb	4,452.076 ppb	35,910.154 ppb
Concentration per Run 1	90.103 %	83.941 %	0.021 ppb	24.447 ppb	8,606.419 ppb	4,176.791 ppb	3.028 ppb	4,559.982 ppb	37,408.217 ppb
Concentration per Run 2	88.327 %	85.624 %	0.026 ppb	25.086 ppb	8,303.599 ppb	4,030.574 ppb	3.313 ppb	4,523.826 ppb	35,949.590 ppb
Concentration per Run 3	88.569 %	94.460 %	0.022 ppb	24.576 ppb	7,722.429 ppb	3,700.367 ppb	2.478 ppb	4,272.419 ppb	34,372.654 ppb
Concentration RSD	1.1 %	6.4 %	11.3 %	1.4 %	5.5 %	6.1 %	14.4 %	3.5 %	4.2 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	91.575 %	98.778 %	0.266 ppb	2.428 ppb	29.096 ppb	206.140 ppb	0.864 ppb	19.160 ppb	0.271 ppb
Concentration per Run 1	93.592 %	95.337 %	0.289 ppb	2.606 ppb	30.639 ppb	218.328 ppb	0.934 ppb	19.904 ppb	0.291 ppb
Concentration per Run 2	91.380 %	97.658 %	0.241 ppb	2.450 ppb	28.932 ppb	207.048 ppb	0.877 ppb	19.154 ppb	0.269 ppb
Concentration per Run 3	89.753 %	103.338 %	0.267 ppb	2.229 ppb	27.716 ppb	193.043 ppb	0.781 ppb	18.421 ppb	0.254 ppb
Concentration RSD	2.1 %	4.2 %	9.2 %	7.8 %	5.0 %	6.1 %	8.9 %	3.9 %	6.9 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	1.884 ppb	104.199 %	97.193 %	0.108 ppb	0.274 ppb	174.719 ppb	1.467 ppb	98.964 %	94.256 %
Concentration per Run 1	2.100 ppb	104.163 %	91.833 %	0.171 ppb	0.383 ppb	181.142 ppb	1.552 ppb	102.061 %	90.658 %
Concentration per Run 2	1.805 ppb	104.150 %	98.177 %	0.067 ppb	0.256 ppb	171.978 ppb	1.460 ppb	96.089 %	94.851 %
Concentration per Run 3	1.746 ppb	104.283 %	101.570 %	0.086 ppb	0.183 ppb	171.035 ppb	1.389 ppb	98.741 %	97.258 %
Concentration RSD	10.1 %	0.1 %	5.1 %	51.3 %	36.9 %	3.2 %	5.6 %	3.0 %	3.5 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.044 ppb	102.123 %	99.375 %	0.841 ppb	63.956 ppb	106.612 %	103.672 %	107.001 %
Concentration per Run 1	-0.001 ppb	0.044 ppb	103.435 %	97.173 %	0.740 ppb	61.900 ppb	110.091 %	99.179 %	108.834 %
Concentration per Run 2	0.002 ppb	0.043 ppb	100.881 %	99.613 %	0.857 ppb	64.678 ppb	104.507 %	105.177 %	106.383 %
Concentration per Run 3	0.000 ppb	0.044 ppb	102.052 %	101.340 %	0.927 ppb	65.292 ppb	105.239 %	106.661 %	105.787 %
Concentration RSD	372.6 %	1.8 %	1.3 %	2.1 %	11.2 %	2.8 %	2.8 %	3.8 %	1.5 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	106.281 %	0.038 ppb	0.014 ppb	103.793 %	105.586 %
Concentration per Run 1	101.990 %	0.039 ppb	0.014 ppb	103.976 %	99.937 %
Concentration per Run 2	108.322 %	0.039 ppb	0.015 ppb	102.524 %	107.187 %
Concentration per Run 3	108.531 %	0.036 ppb	0.014 ppb	104.879 %	109.635 %
Concentration RSD	3.5 %	5.5 %	5.9 %	1.1 %	4.8 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	106	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	WG1930675-3d10 6020SL	Rack	2		
Analysis started at:	6/10/2024 5:43:12 PM	Vial	13		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	90.597 %	86.956 %	4.962 ppb	104.580 ppb	1,927.697 ppb	1,442.092 ppb	208.443 ppb	1,513.636 ppb	4,841.977 ppb
Concentration per Run 1	90.976 %	83.310 %	4.890 ppb	103.387 ppb	2,010.965 ppb	1,514.150 ppb	217.381 ppb	1,566.940 ppb	5,011.258 ppb
Concentration per Run 2	89.926 %	88.780 %	5.122 ppb	105.652 ppb	1,878.965 ppb	1,392.949 ppb	200.348 ppb	1,473.519 ppb	4,658.493 ppb
Concentration per Run 3	90.888 %	88.780 %	4.874 ppb	104.701 ppb	1,893.162 ppb	1,419.175 ppb	207.600 ppb	1,500.450 ppb	4,856.180 ppb
Concentration RSD	0.6 %	3.6 %	2.8 %	1.1 %	3.8 %	4.4 %	4.1 %	3.2 %	3.7 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	97.426 %	97.712 %	53.664 ppb	21.958 ppb	55.547 ppb	125.354 ppb	51.422 ppb	55.149 ppb	25.080 ppb
Concentration per Run 1	106.049 %	95.240 %	55.136 ppb	23.035 ppb	57.507 ppb	127.681 ppb	53.914 ppb	57.684 ppb	26.231 ppb
Concentration per Run 2	93.291 %	99.264 %	51.606 ppb	21.266 ppb	54.217 ppb	127.684 ppb	49.871 ppb	53.153 ppb	24.149 ppb
Concentration per Run 3	92.937 %	98.632 %	54.251 ppb	21.572 ppb	54.915 ppb	120.696 ppb	50.482 ppb	54.608 ppb	24.860 ppb
Concentration RSD	7.7 %	2.2 %	3.4 %	4.3 %	3.1 %	3.2 %	4.2 %	4.2 %	4.2 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	49.412 ppb	104.268 %	99.229 %	11.734 ppb	12.306 ppb	117.766 ppb	96.376 ppb	101.374 %	98.577 %
Concentration per Run 1	51.806 ppb	103.566 %	94.842 %	12.514 ppb	13.768 ppb	122.805 ppb	103.942 ppb	102.414 %	93.717 %
Concentration per Run 2	48.045 ppb	104.850 %	101.917 %	11.352 ppb	11.544 ppb	113.921 ppb	93.971 ppb	101.027 %	100.741 %
Concentration per Run 3	48.383 ppb	104.388 %	100.928 %	11.338 ppb	11.607 ppb	116.573 ppb	91.214 ppb	100.681 %	101.272 %
Concentration RSD	4.2 %	0.6 %	3.9 %	5.8 %	10.3 %	3.9 %	6.9 %	0.9 %	4.3 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	5.080 ppb	5.498 ppb	106.270 %	104.944 %	48.430 ppb	222.211 ppb	105.805 %	105.942 %	106.533 %
Concentration per Run 1	5.406 ppb	5.814 ppb	105.963 %	100.369 %	51.089 ppb	227.405 ppb	103.612 %	101.552 %	107.576 %
Concentration per Run 2	4.904 ppb	5.221 ppb	106.783 %	106.981 %	47.088 ppb	222.105 ppb	107.982 %	108.392 %	106.958 %
Concentration per Run 3	4.931 ppb	5.458 ppb	106.063 %	107.481 %	47.114 ppb	217.123 ppb	105.822 %	107.883 %	105.063 %
Concentration RSD	5.6 %	5.4 %	0.4 %	3.8 %	4.8 %	2.3 %	2.1 %	3.6 %	1.2 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	109.388 %	9.880 ppb	53.630 ppb	107.101 %	107.676 %
Concentration per Run 1	105.769 %	9.997 ppb	53.932 ppb	105.086 %	102.207 %
Concentration per Run 2	110.653 %	9.972 ppb	54.080 ppb	108.041 %	108.986 %
Concentration per Run 3	111.743 %	9.671 ppb	52.877 ppb	108.177 %	111.834 %
Concentration RSD	2.9 %	1.8 %	1.2 %	1.6 %	4.6 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	107	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	WG1930675-4d10 6020SL	Rack	2		
Analysis started at:	6/10/2024 5:47:54 PM	Vial	14		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	90.830 %	88.850 %	4.926 ppb	102.784 ppb	1,893.575 ppb	1,423.936 ppb	211.392 ppb	1,461.314 ppb	4,963.694 ppb
Concentration per Run 1	91.479 %	92.777 %	4.971 ppb	103.711 ppb	1,856.624 ppb	1,406.717 ppb	204.419 ppb	1,493.126 ppb	5,132.757 ppb
Concentration per Run 2	91.218 %	86.045 %	4.877 ppb	101.933 ppb	1,944.510 ppb	1,443.015 ppb	222.023 ppb	1,454.586 ppb	5,087.683 ppb
Concentration per Run 3	89.794 %	87.728 %	4.931 ppb	102.708 ppb	1,879.590 ppb	1,422.076 ppb	207.734 ppb	1,436.229 ppb	4,670.641 ppb
Concentration RSD	1.0 %	3.9 %	1.0 %	0.9 %	2.4 %	1.3 %	4.4 %	2.0 %	5.1 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	101.726 %	98.085 %	52.972 ppb	21.587 ppb	54.822 ppb	126.133 ppb	51.557 ppb	54.593 ppb	25.159 ppb
Concentration per Run 1	90.774 %	95.483 %	56.130 ppb	22.592 ppb	57.373 ppb	131.493 ppb	54.309 ppb	58.370 ppb	26.890 ppb
Concentration per Run 2	109.254 %	97.999 %	51.803 ppb	21.023 ppb	53.699 ppb	126.914 ppb	49.867 ppb	53.239 ppb	24.945 ppb
Concentration per Run 3	105.148 %	100.773 %	50.984 ppb	21.145 ppb	53.394 ppb	119.994 ppb	50.494 ppb	52.172 ppb	23.643 ppb
Concentration RSD	9.5 %	2.7 %	5.2 %	4.0 %	4.0 %	4.6 %	4.7 %	6.1 %	6.5 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	50.154 ppb	103.176 %	96.991 %	11.815 ppb	12.127 ppb	115.866 ppb	95.650 ppb	100.455 %	99.009 %
Concentration per Run 1	52.172 ppb	103.272 %	93.188 %	12.493 ppb	13.301 ppb	120.469 ppb	102.318 ppb	102.531 %	95.519 %
Concentration per Run 2	49.626 ppb	104.150 %	98.071 %	11.502 ppb	11.451 ppb	113.610 ppb	92.241 ppb	98.861 %	100.467 %
Concentration per Run 3	48.664 ppb	102.106 %	99.713 %	11.451 ppb	11.629 ppb	113.518 ppb	92.391 ppb	99.972 %	101.041 %
Concentration RSD	3.6 %	1.0 %	3.5 %	5.0 %	8.4 %	3.4 %	6.0 %	1.9 %	3.1 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	4.971 ppb	5.328 ppb	106.012 %	104.699 %	48.762 ppb	217.017 ppb	107.669 %	105.092 %	108.389 %
Concentration per Run 1	5.185 ppb	5.457 ppb	104.634 %	98.678 %	52.048 ppb	222.071 ppb	105.667 %	100.614 %	107.558 %
Concentration per Run 2	4.852 ppb	5.284 ppb	105.563 %	106.464 %	47.514 ppb	214.892 ppb	108.648 %	106.200 %	110.392 %
Concentration per Run 3	4.877 ppb	5.243 ppb	107.840 %	108.956 %	46.725 ppb	214.089 ppb	108.692 %	108.461 %	107.217 %
Concentration RSD	3.7 %	2.1 %	1.6 %	5.1 %	5.9 %	2.0 %	1.6 %	3.8 %	1.6 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.501 %	9.842 ppb	51.514 ppb	107.794 %	107.834 %
Concentration per Run 1	103.649 %	9.850 ppb	52.802 ppb	107.198 %	103.040 %
Concentration per Run 2	108.474 %	10.025 ppb	48.180 ppb	106.777 %	107.605 %
Concentration per Run 3	110.378 %	9.653 ppb	53.560 ppb	109.407 %	112.857 %
Concentration RSD	3.2 %	1.9 %	5.7 %	1.3 %	4.6 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	108	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	WG1930675-5d10 6020SL	Rack	2		
Analysis started at:	6/10/2024 5:52:35 PM	Vial	15		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	88.661 %	87.798 %	50.665 ppb	54.797 ppb	5,891.175 ppb	5,492.818 ppb	58.245 ppb	5,381.045 ppb	9,005.171 ppb
Concentration per Run 1	88.584 %	80.996 %	50.667 ppb	55.039 ppb	6,197.704 ppb	5,845.097 ppb	58.725 ppb	5,577.623 ppb	9,458.757 ppb
Concentration per Run 2	89.481 %	94.250 %	50.000 ppb	53.849 ppb	5,647.344 ppb	5,239.989 ppb	60.424 ppb	5,283.686 ppb	8,966.117 ppb
Concentration per Run 3	87.917 %	88.149 %	51.329 ppb	55.503 ppb	5,828.478 ppb	5,393.367 ppb	55.588 ppb	5,281.825 ppb	8,590.639 ppb
Concentration RSD	0.9 %	7.6 %	1.3 %	1.6 %	4.8 %	5.7 %	4.2 %	3.2 %	4.8 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	99.034 %	99.951 %	53.153 ppb	53.856 ppb	54.815 ppb	5,144.447 ppb	52.984 ppb	55.709 ppb	50.978 ppb
Concentration per Run 1	96.281 %	96.749 %	54.870 ppb	55.999 ppb	56.655 ppb	5,245.657 ppb	55.158 ppb	56.783 ppb	52.301 ppb
Concentration per Run 2	109.868 %	101.147 %	52.359 ppb	53.299 ppb	54.137 ppb	5,025.751 ppb	52.422 ppb	54.944 ppb	50.621 ppb
Concentration per Run 3	90.952 %	101.958 %	52.230 ppb	52.270 ppb	53.654 ppb	5,161.932 ppb	51.371 ppb	55.400 ppb	50.012 ppb
Concentration RSD	9.8 %	2.8 %	2.8 %	3.6 %	2.9 %	2.2 %	3.7 %	1.7 %	2.3 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	51.157 ppb	103.252 %	96.810 %	49.220 ppb	49.847 ppb	71.259 ppb	49.789 ppb	100.706 %	97.623 %
Concentration per Run 1	53.440 ppb	105.041 %	94.295 %	51.733 ppb	50.433 ppb	73.170 ppb	50.719 ppb	100.928 %	92.975 %
Concentration per Run 2	50.460 ppb	102.855 %	97.724 %	48.026 ppb	49.582 ppb	69.798 ppb	48.912 ppb	100.576 %	100.315 %
Concentration per Run 3	49.571 ppb	101.861 %	98.411 %	47.902 ppb	49.525 ppb	70.809 ppb	49.737 ppb	100.613 %	99.579 %
Concentration RSD	4.0 %	1.6 %	2.3 %	4.4 %	1.0 %	2.4 %	1.8 %	0.2 %	4.1 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	1.684 ppb	50.724 ppb	103.066 %	101.154 %	51.775 ppb	56.556 ppb	106.881 %	104.365 %	106.462 %
Concentration per Run 1	1.772 ppb	54.795 ppb	104.762 %	95.557 %	54.409 ppb	54.359 ppb	107.435 %	99.599 %	105.019 %
Concentration per Run 2	1.634 ppb	48.613 ppb	101.470 %	104.616 %	50.211 ppb	57.561 ppb	105.018 %	107.041 %	104.665 %
Concentration per Run 3	1.646 ppb	48.764 ppb	102.964 %	103.290 %	50.705 ppb	57.748 ppb	108.189 %	106.455 %	109.701 %
Concentration RSD	4.5 %	7.0 %	1.6 %	4.8 %	4.4 %	3.4 %	1.5 %	4.0 %	2.6 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.724 %	47.876 ppb	48.915 ppb	107.131 %	106.977 %
Concentration per Run 1	101.419 %	47.490 ppb	50.597 ppb	107.763 %	103.076 %
Concentration per Run 2	109.263 %	47.745 ppb	44.922 ppb	107.119 %	107.316 %
Concentration per Run 3	112.491 %	48.392 ppb	51.226 ppb	106.510 %	110.538 %
Concentration RSD	5.3 %	1.0 %	7.1 %	0.6 %	3.5 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	109	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	WG1930675-6d5 6020SL	Rack	2		
Analysis started at:	6/10/2024 5:57:17 PM	Vial	16		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	90.282 %	89.271 %	0.026 ppb	5.039 ppb	1,570.617 ppb	777.830 ppb	-1.320 ppb	837.597 ppb	6,768.759 ppb
Concentration per Run 1	91.211 %	84.782 %	0.028 ppb	5.020 ppb	1,629.018 ppb	812.738 ppb	-0.857 ppb	853.171 ppb	7,115.027 ppb
Concentration per Run 2	89.066 %	92.567 %	0.027 ppb	5.092 ppb	1,516.797 ppb	742.367 ppb	-0.961 ppb	832.690 ppb	6,564.251 ppb
Concentration per Run 3	90.568 %	90.463 %	0.023 ppb	5.004 ppb	1,566.035 ppb	778.387 ppb	-2.141 ppb	826.929 ppb	6,627.000 ppb
Concentration RSD	1.2 %	4.5 %	10.1 %	0.9 %	3.6 %	4.5 %	54.0 %	1.6 %	4.5 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	91.708 %	101.552 %	0.050 ppb	0.469 ppb	5.760 ppb	41.303 ppb	0.176 ppb	3.837 ppb	0.026 ppb
Concentration per Run 1	93.951 %	99.248 %	0.062 ppb	0.481 ppb	5.953 ppb	43.304 ppb	0.191 ppb	4.138 ppb	0.017 ppb
Concentration per Run 2	92.076 %	101.731 %	0.062 ppb	0.487 ppb	5.794 ppb	37.014 ppb	0.167 ppb	3.643 ppb	0.046 ppb
Concentration per Run 3	89.096 %	103.678 %	0.024 ppb	0.438 ppb	5.533 ppb	43.591 ppb	0.169 ppb	3.731 ppb	0.014 ppb
Concentration RSD	2.7 %	2.2 %	43.9 %	5.7 %	3.7 %	9.0 %	7.8 %	6.9 %	69.4 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.254 ppb	103.424 %	98.216 %	0.035 ppb	0.073 ppb	33.258 ppb	0.457 ppb	101.633 %	99.193 %
Concentration per Run 1	0.279 ppb	104.911 %	92.447 %	0.062 ppb	0.030 ppb	35.247 ppb	0.370 ppb	102.372 %	95.384 %
Concentration per Run 2	0.234 ppb	102.614 %	100.261 %	0.005 ppb	0.046 ppb	32.549 ppb	0.443 ppb	101.063 %	101.215 %
Concentration per Run 3	0.249 ppb	102.747 %	101.940 %	0.038 ppb	0.144 ppb	31.978 ppb	0.556 ppb	101.464 %	100.978 %
Concentration RSD	9.2 %	1.2 %	5.2 %	80.7 %	83.9 %	5.3 %	20.5 %	0.7 %	3.3 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	-0.001 ppb	0.009 ppb	105.388 %	105.154 %	0.294 ppb	12.295 ppb	107.711 %	106.429 %	108.663 %
Concentration per Run 1	-0.001 ppb	0.009 ppb	106.156 %	101.106 %	0.239 ppb	12.370 ppb	105.097 %	101.352 %	107.508 %
Concentration per Run 2	0.000 ppb	0.013 ppb	105.792 %	106.426 %	0.302 ppb	12.492 ppb	110.389 %	108.765 %	109.376 %
Concentration per Run 3	-0.001 ppb	0.004 ppb	104.217 %	107.929 %	0.342 ppb	12.023 ppb	107.646 %	109.169 %	109.104 %
Concentration RSD	68.0 %	53.7 %	1.0 %	3.4 %	17.5 %	2.0 %	2.5 %	4.1 %	0.9 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	110.054 %	0.251 ppb	0.006 ppb	109.885 %	109.604 %
Concentration per Run 1	104.655 %	0.285 ppb	0.006 ppb	110.098 %	105.748 %
Concentration per Run 2	112.567 %	0.250 ppb	0.006 ppb	107.089 %	110.053 %
Concentration per Run 3	112.941 %	0.219 ppb	0.006 ppb	112.467 %	113.011 %
Concentration RSD	4.3 %	13.0 %	3.3 %	2.5 %	3.3 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 110
Analysis label: I2430219-08d10 6020TL
Analysis started at: 6/10/2024 6:01:59 PM
User name ALPHALAB\ICPMSRQ
Rack 2
Vial 8
Comment <Comment>

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.888 %	83.310 %	0.017 ppb	3.872 ppb	3,659.485 ppb	420.750 ppb	-0.686 ppb	2,513.774 ppb	4,401.561 ppb
Concentration per Run 1	89.887 %	78.471 %	0.018 ppb	3.828 ppb	3,880.866 ppb	451.172 ppb	-0.298 ppb	2,592.749 ppb	4,571.299 ppb
Concentration per Run 2	89.608 %	85.834 %	0.012 ppb	3.860 ppb	3,523.246 ppb	401.198 ppb	-1.296 ppb	2,428.479 ppb	4,452.566 ppb
Concentration per Run 3	90.169 %	85.624 %	0.020 ppb	3.929 ppb	3,574.343 ppb	409.881 ppb	-0.465 ppb	2,520.095 ppb	4,180.820 ppb
Concentration RSD	0.3 %	5.0 %	24.3 %	1.3 %	5.3 %	6.3 %	77.9 %	3.3 %	4.5 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	101.284 %	98.767 %	0.021 ppb	0.103 ppb	1.303 ppb	1.172 ppb	0.024 ppb	0.124 ppb	0.269 ppb
Concentration per Run 1	105.792 %	95.143 %	0.026 ppb	0.136 ppb	1.419 ppb	1.140 ppb	0.025 ppb	0.192 ppb	0.264 ppb
Concentration per Run 2	105.587 %	101.066 %	-0.003 ppb	0.094 ppb	1.283 ppb	1.243 ppb	0.028 ppb	0.122 ppb	0.244 ppb
Concentration per Run 3	92.473 %	100.092 %	0.039 ppb	0.078 ppb	1.206 ppb	1.132 ppb	0.019 ppb	0.057 ppb	0.300 ppb
Concentration RSD	7.5 %	3.2 %	103.8 %	29.3 %	8.3 %	5.3 %	18.0 %	54.4 %	10.6 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.166 ppb	102.818 %	97.088 %	0.042 ppb	0.021 ppb	16.717 ppb	0.289 ppb	103.812 %	96.695 %
Concentration per Run 1	0.183 ppb	102.293 %	90.062 %	0.018 ppb	0.061 ppb	17.640 ppb	0.288 ppb	103.902 %	92.039 %
Concentration per Run 2	0.163 ppb	102.677 %	100.007 %	0.040 ppb	0.046 ppb	15.998 ppb	0.285 ppb	103.911 %	99.185 %
Concentration per Run 3	0.152 ppb	103.483 %	101.196 %	0.068 ppb	-0.045 ppb	16.513 ppb	0.294 ppb	103.624 %	98.859 %
Concentration RSD	9.4 %	0.6 %	6.3 %	59.2 %	273.3 %	5.0 %	1.5 %	0.2 %	4.2 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.002 ppb	105.234 %	100.882 %	0.159 ppb	6.145 ppb	107.762 %	103.285 %	107.417 %
Concentration per Run 1	0.000 ppb	0.002 ppb	105.542 %	93.150 %	0.150 ppb	6.182 ppb	108.499 %	97.091 %	106.672 %
Concentration per Run 2	-0.001 ppb	0.001 ppb	105.735 %	103.476 %	0.160 ppb	6.035 ppb	108.601 %	106.202 %	109.293 %
Concentration per Run 3	0.000 ppb	0.003 ppb	104.426 %	106.021 %	0.165 ppb	6.217 ppb	106.186 %	106.564 %	106.286 %
Concentration RSD	107.6 %	57.3 %	0.7 %	6.8 %	4.8 %	1.6 %	1.3 %	5.2 %	1.5 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	106.140 %	0.105 ppb	0.006 ppb	107.565 %	108.145 %
Concentration per Run 1	100.296 %	0.108 ppb	0.006 ppb	105.183 %	102.646 %
Concentration per Run 2	109.735 %	0.104 ppb	0.006 ppb	107.779 %	109.148 %
Concentration per Run 3	108.389 %	0.102 ppb	0.006 ppb	109.732 %	112.642 %
Concentration RSD	4.8 %	2.9 %	1.9 %	2.1 %	4.7 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	111	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2430219-09d10 6020TL	Rack	2		
Analysis started at:	6/10/2024 6:06:41 PM	Vial	9		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	90.412 %	87.167 %	0.010 ppb	3.841 ppb	3,652.321 ppb	424.552 ppb	-0.032 ppb	2,536.882 ppb	4,255.523 ppb
Concentration per Run 1	91.432 %	84.993 %	0.010 ppb	3.885 ppb	3,822.231 ppb	453.673 ppb	0.498 ppb	2,602.749 ppb	4,430.091 ppb
Concentration per Run 2	89.977 %	81.627 %	0.011 ppb	3.872 ppb	3,750.288 ppb	421.004 ppb	0.015 ppb	2,558.101 ppb	4,164.275 ppb
Concentration per Run 3	89.826 %	94.881 %	0.009 ppb	3.767 ppb	3,384.443 ppb	398.977 ppb	-0.609 ppb	2,449.795 ppb	4,172.204 ppb
Concentration RSD	1.0 %	7.9 %	14.9 %	1.7 %	6.4 %	6.5 %	1,737.5 %	3.1 %	3.6 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	102.305 %	98.550 %	0.018 ppb	0.047 ppb	1.287 ppb	0.846 ppb	0.023 ppb	0.104 ppb	0.284 ppb
Concentration per Run 1	92.569 %	93.374 %	0.013 ppb	0.058 ppb	1.347 ppb	1.430 ppb	0.018 ppb	0.137 ppb	0.316 ppb
Concentration per Run 2	107.226 %	99.345 %	0.027 ppb	0.048 ppb	1.277 ppb	0.746 ppb	0.024 ppb	0.070 ppb	0.283 ppb
Concentration per Run 3	107.121 %	102.932 %	0.013 ppb	0.033 ppb	1.237 ppb	0.362 ppb	0.027 ppb	0.105 ppb	0.253 ppb
Concentration RSD	8.2 %	4.9 %	46.0 %	26.9 %	4.3 %	64.0 %	20.0 %	32.2 %	11.1 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.151 ppb	104.397 %	96.973 %	0.031 ppb	0.042 ppb	16.384 ppb	0.297 ppb	100.718 %	96.846 %
Concentration per Run 1	0.153 ppb	104.463 %	90.699 %	0.031 ppb	0.087 ppb	17.095 ppb	0.305 ppb	101.907 %	93.098 %
Concentration per Run 2	0.150 ppb	104.636 %	98.090 %	0.066 ppb	0.025 ppb	16.507 ppb	0.275 ppb	98.783 %	98.523 %
Concentration per Run 3	0.148 ppb	104.091 %	102.130 %	-0.003 ppb	0.013 ppb	15.550 ppb	0.313 ppb	101.464 %	98.916 %
Concentration RSD	1.8 %	0.3 %	6.0 %	110.4 %	95.5 %	4.8 %	6.8 %	1.7 %	3.4 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.001 ppb	105.781 %	101.080 %	0.114 ppb	6.212 ppb	108.527 %	104.667 %	109.895 %
Concentration per Run 1	0.000 ppb	0.002 ppb	106.813 %	95.354 %	0.088 ppb	6.230 ppb	108.480 %	99.446 %	110.688 %
Concentration per Run 2	0.000 ppb	0.001 ppb	106.923 %	103.265 %	0.123 ppb	6.249 ppb	109.134 %	106.971 %	109.540 %
Concentration per Run 3	0.000 ppb	0.001 ppb	103.606 %	104.623 %	0.132 ppb	6.157 ppb	107.967 %	107.584 %	109.455 %
Concentration RSD	65.8 %	63.5 %	1.8 %	5.0 %	20.4 %	0.8 %	0.5 %	4.3 %	0.6 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.843 %	0.070 ppb	0.005 ppb	108.240 %	106.576 %
Concentration per Run 1	100.240 %	0.073 ppb	0.004 ppb	107.961 %	100.904 %
Concentration per Run 2	111.152 %	0.070 ppb	0.007 ppb	107.744 %	109.745 %
Concentration per Run 3	112.138 %	0.067 ppb	0.005 ppb	109.016 %	109.078 %
Concentration RSD	6.1 %	3.9 %	21.4 %	0.6 %	4.6 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 112 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: I2430217-01 6020SL Rack 2
Analysis started at: 6/10/2024 6:11:24 PM Vial 17

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.743 %	92.496 %	0.008 ppb	15.717 ppb	2,214.780 ppb	1,168.641 ppb	-0.109 ppb	5,418.383 ppb	21,908.844 ppb
Concentration per Run 1	89.848 %	87.728 %	0.012 ppb	15.679 ppb	2,315.506 ppb	1,232.378 ppb	1.998 ppb	5,508.364 ppb	22,982.841 ppb
Concentration per Run 2	89.799 %	99.088 %	0.006 ppb	15.872 ppb	2,103.039 ppb	1,107.714 ppb	-0.997 ppb	5,338.184 ppb	21,576.339 ppb
Concentration per Run 3	89.582 %	90.673 %	0.006 ppb	15.600 ppb	2,225.796 ppb	1,165.830 ppb	-1.326 ppb	5,408.601 ppb	21,167.351 ppb
Concentration RSD	0.2 %	6.4 %	40.9 %	0.9 %	4.8 %	5.3 %	1,687.4 %	1.6 %	4.3 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	108.905 %	99.286 %	0.009 ppb	1.077 ppb	10.759 ppb	18.384 ppb	0.108 ppb	0.272 ppb	0.718 ppb
Concentration per Run 1	108.248 %	98.193 %	0.024 ppb	1.132 ppb	11.031 ppb	19.056 ppb	0.107 ppb	0.313 ppb	0.755 ppb
Concentration per Run 2	107.729 %	99.508 %	0.018 ppb	1.008 ppb	10.555 ppb	17.041 ppb	0.096 ppb	0.258 ppb	0.667 ppb
Concentration per Run 3	110.739 %	100.157 %	-0.015 ppb	1.091 ppb	10.692 ppb	19.054 ppb	0.120 ppb	0.245 ppb	0.733 ppb
Concentration RSD	1.5 %	1.0 %	231.9 %	5.9 %	2.3 %	6.3 %	11.3 %	13.2 %	6.4 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.875 ppb	103.410 %	96.515 %	0.024 ppb	0.155 ppb	79.114 ppb	1.368 ppb	99.746 %	96.346 %
Concentration per Run 1	0.966 ppb	102.524 %	92.953 %	0.016 ppb	0.065 ppb	83.129 ppb	1.476 ppb	101.878 %	91.922 %
Concentration per Run 2	0.829 ppb	104.670 %	100.222 %	-0.007 ppb	0.177 ppb	75.570 ppb	1.288 ppb	97.273 %	98.682 %
Concentration per Run 3	0.828 ppb	103.035 %	96.370 %	0.064 ppb	0.224 ppb	78.643 ppb	1.340 ppb	100.086 %	98.435 %
Concentration RSD	9.1 %	1.1 %	3.8 %	149.2 %	52.6 %	4.8 %	7.1 %	2.3 %	4.0 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	-0.001 ppb	0.006 ppb	104.102 %	101.531 %	0.213 ppb	22.664 ppb	108.481 %	103.749 %	106.528 %
Concentration per Run 1	-0.001 ppb	0.013 ppb	103.656 %	96.773 %	0.196 ppb	23.026 ppb	107.385 %	97.708 %	106.769 %
Concentration per Run 2	0.000 ppb	0.003 ppb	105.861 %	102.427 %	0.224 ppb	22.175 ppb	110.641 %	107.904 %	106.482 %
Concentration per Run 3	-0.001 ppb	0.003 ppb	102.789 %	105.393 %	0.219 ppb	22.792 ppb	107.417 %	105.636 %	106.335 %
Concentration RSD	56.5 %	95.7 %	1.5 %	4.3 %	7.1 %	1.9 %	1.7 %	5.2 %	0.2 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	108.603 %	0.071 ppb	0.011 ppb	106.888 %	107.669 %
Concentration per Run 1	104.204 %	0.072 ppb	0.011 ppb	104.519 %	101.672 %
Concentration per Run 2	110.647 %	0.067 ppb	0.011 ppb	109.745 %	110.442 %
Concentration per Run 3	110.957 %	0.073 ppb	0.011 ppb	106.399 %	110.893 %
Concentration RSD	3.5 %	4.4 %	4.4 %	2.5 %	4.8 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 113 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: CCV Rack 0
Analysis started at: 6/10/2024 6:16:06 PM Vial 9

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	88.595 %	87.658 %	60.544 ppb	61.571 ppb	5,929.081 ppb	5,922.074 ppb	59.256 ppb	5,680.556 ppb	6,389.383 ppb
Concentration per Run 1	88.902 %	85.414 %	60.335 ppb	62.255 ppb	6,077.423 ppb	6,067.718 ppb	59.620 ppb	5,711.926 ppb	6,671.909 ppb
Concentration per Run 2	88.792 %	84.151 %	60.174 ppb	60.294 ppb	5,985.994 ppb	5,992.762 ppb	55.546 ppb	5,700.748 ppb	6,336.469 ppb
Concentration per Run 3	88.090 %	93.408 %	61.124 ppb	62.163 ppb	5,723.827 ppb	5,705.743 ppb	62.603 ppb	5,628.993 ppb	6,159.770 ppb
Recovery Percentage 1			100.907 %	102.618 %	98.818 %	98.701 %	98.760 %	94.676 %	106.490 %
Concentration RSD	0.5 %	5.7 %	0.8 %	1.8 %	3.1 %	3.2 %	6.0 %	0.8 %	4.1 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	97.054 %	102.034 %	62.026 ppb	62.692 ppb	60.319 ppb	6,011.548 ppb	61.786 ppb	61.473 ppb	61.397 ppb
Concentration per Run 1	93.180 %	100.822 %	64.389 ppb	64.859 ppb	62.405 ppb	6,324.696 ppb	64.862 ppb	64.950 ppb	63.354 ppb
Concentration per Run 2	108.363 %	101.861 %	61.013 ppb	62.500 ppb	59.094 ppb	5,824.796 ppb	60.746 ppb	59.528 ppb	60.476 ppb
Concentration per Run 3	89.619 %	103.419 %	60.675 ppb	60.718 ppb	59.457 ppb	5,885.153 ppb	59.750 ppb	59.940 ppb	60.359 ppb
Recovery Percentage 1			103.376 %	104.487 %	100.532 %	100.192 %	102.977 %	102.454 %	102.328 %
Concentration RSD	10.3 %	1.3 %	3.3 %	3.3 %	3.0 %	4.5 %	4.4 %	4.9 %	2.8 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	59.317 ppb	103.010 %	96.799 %	58.571 ppb	59.388 ppb	60.444 ppb	58.902 ppb	99.893 %	95.964 %
Concentration per Run 1	61.431 ppb	103.458 %	92.200 %	61.002 ppb	62.320 ppb	62.060 ppb	60.994 ppb	101.657 %	93.547 %
Concentration per Run 2	58.929 ppb	104.257 %	97.804 %	57.643 ppb	57.728 ppb	59.581 ppb	58.091 ppb	99.113 %	98.175 %
Concentration per Run 3	57.592 ppb	101.314 %	100.393 %	57.067 ppb	58.116 ppb	59.692 ppb	57.621 ppb	98.908 %	96.169 %
Recovery Percentage 1	98.862 %			97.618 %	98.980 %	100.740 %	98.169 %		
Concentration RSD	3.3 %	1.5 %	4.3 %	3.6 %	4.3 %	2.3 %	3.1 %	1.5 %	2.4 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	60.302 ppb	60.970 ppb	102.808 %	100.076 %	55.240 ppb	60.717 ppb	105.247 %	103.246 %	106.785 %
Concentration per Run 1	63.114 ppb	64.649 ppb	103.050 %	94.561 %	59.020 ppb	60.742 ppb	105.354 %	95.732 %	106.005 %
Concentration per Run 2	58.214 ppb	58.076 ppb	100.773 %	106.227 %	52.323 ppb	61.022 ppb	106.781 %	105.081 %	107.434 %
Concentration per Run 3	59.577 ppb	60.183 ppb	104.602 %	99.439 %	54.378 ppb	60.388 ppb	103.605 %	108.924 %	106.917 %
Recovery Percentage 1	100.503 %	101.616 %			92.067 %	101.196 %			
Concentration RSD	4.2 %	5.5 %	1.9 %	5.9 %	6.2 %	0.5 %	1.5 %	6.6 %	0.7 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.423 %	59.820 ppb	60.011 ppb	105.401 %	103.779 %
Concentration per Run 1	100.745 %	62.666 ppb	62.132 ppb	102.288 %	98.120 %
Concentration per Run 2	110.636 %	57.937 ppb	59.258 ppb	107.719 %	105.485 %
Concentration per Run 3	110.887 %	58.857 ppb	58.642 ppb	106.196 %	107.731 %
Recovery Percentage 1		99.700 %	100.018 %		
Concentration RSD	5.4 %	4.2 %	3.1 %	2.7 %	4.8 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 114 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: CCB Rack 0
Analysis started at: 6/10/2024 6:20:52 PM Vial 10

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	90.206 %	91.304 %	0.025 ppb	0.317 ppb	-6.718 ppb	0.001 ppb	-1.968 ppb	-17.133 ppb	3.531 ppb
Concentration per Run 1	90.719 %	88.149 %	0.028 ppb	0.331 ppb	-4.469 ppb	-0.612 ppb	-1.245 ppb	-20.835 ppb	-6.840 ppb
Concentration per Run 2	89.945 %	90.463 %	0.024 ppb	0.305 ppb	-7.878 ppb	-0.643 ppb	-2.515 ppb	-12.061 ppb	7.383 ppb
Concentration per Run 3	89.955 %	95.301 %	0.022 ppb	0.316 ppb	-7.808 ppb	1.258 ppb	-2.143 ppb	-18.504 ppb	10.050 ppb
Recovery Percentage 1			4.915 %	3.175 %	-6.718 %	0.002 %	-19.678 %	-17.133 %	3.531 %
Concentration RSD	0.5 %	4.0 %	11.0 %	4.1 %	29.0 %	93,901.0 %	33.2 %	26.5 %	257.1 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	105.672 %	96.554 %	-0.007 ppb	0.008 ppb	0.025 ppb	2.846 ppb	0.003 ppb	0.029 ppb	-0.006 ppb
Concentration per Run 1	106.404 %	93.698 %	-0.009 ppb	-0.005 ppb	0.040 ppb	2.780 ppb	0.008 ppb	0.102 ppb	-0.003 ppb
Concentration per Run 2	106.439 %	95.824 %	-0.001 ppb	0.010 ppb	0.007 ppb	4.110 ppb	-0.001 ppb	0.024 ppb	-0.001 ppb
Concentration per Run 3	104.172 %	100.141 %	-0.011 ppb	0.019 ppb	0.029 ppb	1.648 ppb	0.004 ppb	-0.039 ppb	-0.013 ppb
Recovery Percentage 1			-0.143 %	0.797 %	2.534 %	5.692 %	0.698 %	1.449 %	-0.570 %
Concentration RSD	1.2 %	3.4 %	71.9 %	151.9 %	67.6 %	43.3 %	117.9 %	244.2 %	117.0 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.009 ppb	102.602 %	95.504 %	0.049 ppb	0.026 ppb	0.005 ppb	0.212 ppb	102.305 %	98.538 %
Concentration per Run 1	0.028 ppb	103.349 %	91.244 %	0.083 ppb	-0.006 ppb	0.009 ppb	0.168 ppb	101.986 %	94.561 %
Concentration per Run 2	0.003 ppb	103.084 %	96.736 %	0.069 ppb	0.029 ppb	-0.003 ppb	0.230 ppb	102.306 %	100.211 %
Concentration per Run 3	-0.004 ppb	101.372 %	98.532 %	-0.005 ppb	0.055 ppb	0.008 ppb	0.239 ppb	102.622 %	100.843 %
Recovery Percentage 1	0.185 %			9.862 %	0.521 %	0.913 %	10.603 %		
Concentration RSD	181.7 %	1.0 %	4.0 %	95.9 %	118.3 %	149.5 %	18.2 %	0.3 %	3.5 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.005 ppb	0.003 ppb	104.507 %	99.507 %	1.380 ppb	0.015 ppb	106.654 %	103.183 %	105.062 %
Concentration per Run 1	0.006 ppb	0.005 ppb	105.232 %	92.113 %	1.252 ppb	0.013 ppb	106.420 %	97.780 %	103.726 %
Concentration per Run 2	0.004 ppb	0.004 ppb	104.199 %	102.693 %	1.389 ppb	0.014 ppb	108.071 %	105.216 %	106.387 %
Concentration per Run 3	0.004 ppb	0.001 ppb	104.092 %	103.715 %	1.500 ppb	0.019 ppb	105.472 %	106.552 %	105.071 %
Recovery Percentage 1	1.194 %				34.502 %	3.039 %			
Concentration RSD	21.8 %	72.4 %	0.6 %	6.5 %	9.0 %	20.3 %	1.2 %	4.6 %	1.3 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	105.524 %	0.075 ppb	0.007 ppb	109.040 %	108.445 %
Concentration per Run 1	99.598 %	0.080 ppb	0.007 ppb	109.701 %	101.877 %
Concentration per Run 2	107.103 %	0.073 ppb	0.007 ppb	109.442 %	109.995 %
Concentration per Run 3	109.872 %	0.072 ppb	0.007 ppb	107.977 %	113.463 %
Recovery Percentage 1		7.490 %	0.692 %		
Concentration RSD	5.0 %	5.8 %	5.0 %	0.9 %	5.5 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	115	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2430217-02 6020SL	Rack	2		
Analysis started at:	6/10/2024 6:27:47 PM	Vial	18		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	90.907 %	85.414 %	0.021 ppb	18.597 ppb	3,408.865 ppb	2,183.215 ppb	0.603 ppb	1,686.492 ppb	29,268.423 ppb
Concentration per Run 1	91.673 %	83.941 %	0.021 ppb	18.614 ppb	3,545.916 ppb	2,299.151 ppb	2.437 ppb	1,741.408 ppb	30,545.557 ppb
Concentration per Run 2	90.593 %	84.993 %	0.021 ppb	18.527 ppb	3,415.049 ppb	2,177.797 ppb	-0.483 ppb	1,691.179 ppb	28,923.011 ppb
Concentration per Run 3	90.454 %	87.307 %	0.021 ppb	18.650 ppb	3,265.631 ppb	2,072.698 ppb	-0.144 ppb	1,626.890 ppb	28,336.700 ppb
Concentration RSD	0.7 %	2.0 %	1.7 %	0.3 %	4.1 %	5.2 %	264.6 %	3.4 %	3.9 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	96.818 %	102.180 %	0.248 ppb	1.576 ppb	0.128 ppb	1.278 ppb	0.028 ppb	0.411 ppb	0.595 ppb
Concentration per Run 1	95.982 %	100.514 %	0.237 ppb	1.644 ppb	0.133 ppb	0.794 ppb	0.033 ppb	0.474 ppb	0.646 ppb
Concentration per Run 2	99.834 %	101.877 %	0.234 ppb	1.533 ppb	0.109 ppb	1.661 ppb	0.025 ppb	0.387 ppb	0.567 ppb
Concentration per Run 3	94.639 %	104.149 %	0.274 ppb	1.551 ppb	0.143 ppb	1.378 ppb	0.026 ppb	0.371 ppb	0.572 ppb
Concentration RSD	2.8 %	1.8 %	9.0 %	3.8 %	13.7 %	34.6 %	15.3 %	13.5 %	7.4 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.602 ppb	104.352 %	98.310 %	0.121 ppb	0.125 ppb	125.710 ppb	1.421 ppb	102.132 %	96.488 %
Concentration per Run 1	0.646 ppb	105.305 %	93.820 %	0.189 ppb	0.168 ppb	130.932 ppb	1.511 ppb	103.761 %	90.289 %
Concentration per Run 2	0.579 ppb	104.881 %	100.806 %	0.084 ppb	0.084 ppb	123.275 ppb	1.388 ppb	103.152 %	99.194 %
Concentration per Run 3	0.580 ppb	102.870 %	100.305 %	0.090 ppb	0.124 ppb	122.922 ppb	1.364 ppb	99.485 %	99.981 %
Concentration RSD	6.4 %	1.2 %	4.0 %	48.6 %	33.7 %	3.6 %	5.5 %	2.3 %	5.6 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.010 ppb	106.368 %	101.314 %	0.407 ppb	23.645 ppb	108.885 %	105.498 %	108.522 %
Concentration per Run 1	0.001 ppb	0.013 ppb	107.979 %	98.450 %	0.383 ppb	23.453 ppb	110.111 %	99.370 %	108.782 %
Concentration per Run 2	0.000 ppb	0.006 ppb	106.593 %	100.428 %	0.396 ppb	23.741 ppb	110.155 %	109.308 %	107.665 %
Concentration per Run 3	0.000 ppb	0.011 ppb	104.532 %	105.064 %	0.441 ppb	23.740 ppb	106.389 %	107.818 %	109.119 %
Concentration RSD	1,425.5 %	35.8 %	1.6 %	3.4 %	7.4 %	0.7 %	2.0 %	5.1 %	0.7 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.996 %	0.045 ppb	0.005 ppb	111.829 %	109.343 %
Concentration per Run 1	102.199 %	0.045 ppb	0.004 ppb	112.590 %	105.185 %
Concentration per Run 2	110.764 %	0.047 ppb	0.005 ppb	110.719 %	109.280 %
Concentration per Run 3	111.025 %	0.044 ppb	0.006 ppb	112.179 %	113.564 %
Concentration RSD	4.7 %	3.9 %	15.4 %	0.9 %	3.8 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 116
Analysis label: I2430217-03 6020SL
Analysis started at: 6/10/2024 6:32:28 PM
User name ALPHALAB\ICPMSRQ
Rack 2
Vial 19
Comment <Comment>

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	90.388 %	89.130 %	0.021 ppb	13.875 ppb	2,080.018 ppb	4,550.245 ppb	0.025 ppb	2,178.370 ppb	32,984.797 ppb
Concentration per Run 1	90.613 %	82.047 %	0.024 ppb	14.228 ppb	2,243.495 ppb	4,899.513 ppb	-1.205 ppb	2,288.259 ppb	34,360.417 ppb
Concentration per Run 2	90.648 %	93.829 %	0.021 ppb	13.654 ppb	1,980.942 ppb	4,378.773 ppb	0.286 ppb	2,168.186 ppb	32,346.186 ppb
Concentration per Run 3	89.903 %	91.515 %	0.016 ppb	13.744 ppb	2,015.617 ppb	4,372.450 ppb	0.994 ppb	2,078.667 ppb	32,247.790 ppb
Concentration RSD	0.5 %	7.0 %	20.1 %	2.2 %	6.9 %	6.6 %	4,501.4 %	4.8 %	3.6 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	102.095 %	98.291 %	0.102 ppb	0.365 ppb	16.039 ppb	8.747 ppb	0.123 ppb	0.805 ppb	0.586 ppb
Concentration per Run 1	91.274 %	95.045 %	0.091 ppb	0.404 ppb	16.757 ppb	9.024 ppb	0.118 ppb	0.828 ppb	0.611 ppb
Concentration per Run 2	107.650 %	96.782 %	0.083 ppb	0.347 ppb	16.055 ppb	9.321 ppb	0.127 ppb	0.908 ppb	0.607 ppb
Concentration per Run 3	107.359 %	103.045 %	0.131 ppb	0.343 ppb	15.306 ppb	7.896 ppb	0.123 ppb	0.679 ppb	0.540 ppb
Concentration RSD	9.2 %	4.3 %	24.9 %	9.4 %	4.5 %	8.6 %	3.9 %	14.4 %	6.8 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	1.646 ppb	102.708 %	98.224 %	0.215 ppb	0.609 ppb	108.127 ppb	0.121 ppb	99.261 %	95.034 %
Concentration per Run 1	1.757 ppb	101.215 %	93.664 %	0.297 ppb	0.608 ppb	114.150 ppb	0.102 ppb	101.053 %	90.466 %
Concentration per Run 2	1.620 ppb	103.653 %	101.113 %	0.187 ppb	0.515 ppb	103.619 ppb	0.134 ppb	98.370 %	96.142 %
Concentration per Run 3	1.560 ppb	103.257 %	99.896 %	0.161 ppb	0.704 ppb	106.612 ppb	0.127 ppb	98.360 %	98.494 %
Concentration RSD	6.2 %	1.3 %	4.1 %	33.4 %	15.4 %	5.0 %	14.0 %	1.6 %	4.3 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.009 ppb	103.402 %	97.874 %	0.320 ppb	14.225 ppb	107.170 %	103.345 %	107.422 %
Concentration per Run 1	0.001 ppb	0.008 ppb	104.503 %	92.907 %	0.299 ppb	14.160 ppb	105.647 %	98.128 %	109.249 %
Concentration per Run 2	0.000 ppb	0.008 ppb	103.291 %	101.092 %	0.302 ppb	14.048 ppb	108.594 %	104.043 %	105.463 %
Concentration per Run 3	-0.001 ppb	0.009 ppb	102.412 %	99.624 %	0.358 ppb	14.467 ppb	107.270 %	107.863 %	107.553 %
Concentration RSD	336.0 %	9.5 %	1.0 %	4.5 %	10.4 %	1.5 %	1.4 %	4.7 %	1.8 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	105.097 %	0.042 ppb	0.020 ppb	106.177 %	105.403 %
Concentration per Run 1	99.918 %	0.042 ppb	0.019 ppb	104.872 %	99.756 %
Concentration per Run 2	104.991 %	0.042 ppb	0.019 ppb	107.881 %	106.735 %
Concentration per Run 3	110.383 %	0.041 ppb	0.022 ppb	105.777 %	109.718 %
Concentration RSD	5.0 %	1.0 %	8.1 %	1.5 %	4.9 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 117 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: I2430217-04 6020SL Rack 2
Analysis started at: 6/10/2024 6:37:10 PM Vial 20

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	88.940 %	88.149 %	0.017 ppb	111.958 ppb	4,800.918 ppb	6,047.648 ppb	0.572 ppb	4,056.778 ppb	82,077.268 ppb
Concentration per Run 1	89.283 %	81.416 %	0.015 ppb	112.141 ppb	5,121.723 ppb	6,388.670 ppb	0.857 ppb	4,193.929 ppb	84,546.557 ppb
Concentration per Run 2	88.421 %	86.676 %	0.016 ppb	112.060 ppb	4,834.554 ppb	6,047.747 ppb	0.339 ppb	4,090.608 ppb	83,496.405 ppb
Concentration per Run 3	89.118 %	96.353 %	0.019 ppb	111.673 ppb	4,446.477 ppb	5,706.526 ppb	0.520 ppb	3,885.796 ppb	78,188.843 ppb
Concentration RSD	0.5 %	8.6 %	13.2 %	0.2 %	7.1 %	5.6 %	45.9 %	3.9 %	4.2 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	96.284 %	100.914 %	0.636 ppb	0.620 ppb	857.951 ppb	18,317.706 ppb	1.451 ppb	0.459 ppb	0.065 ppb
Concentration per Run 1	96.905 %	99.492 %	0.697 ppb	0.648 ppb	890.560 ppb	19,073.336 ppb	1.516 ppb	0.495 ppb	0.066 ppb
Concentration per Run 2	96.872 %	100.027 %	0.602 ppb	0.638 ppb	851.086 ppb	18,154.025 ppb	1.426 ppb	0.472 ppb	0.071 ppb
Concentration per Run 3	95.075 %	103.224 %	0.609 ppb	0.574 ppb	832.209 ppb	17,725.757 ppb	1.411 ppb	0.411 ppb	0.060 ppb
Concentration RSD	1.1 %	2.0 %	8.3 %	6.5 %	3.5 %	3.8 %	3.9 %	9.4 %	8.6 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.326 ppb	105.733 %	98.135 %	6.662 ppb	0.249 ppb	231.238 ppb	0.546 ppb	98.116 %	94.245 %
Concentration per Run 1	0.346 ppb	107.628 %	93.177 %	7.199 ppb	0.235 ppb	238.898 ppb	0.570 ppb	98.383 %	89.336 %
Concentration per Run 2	0.376 ppb	105.122 %	98.454 %	6.444 ppb	0.146 ppb	231.043 ppb	0.504 ppb	97.525 %	96.195 %
Concentration per Run 3	0.256 ppb	104.449 %	102.773 %	6.343 ppb	0.366 ppb	223.772 ppb	0.564 ppb	98.440 %	97.203 %
Concentration RSD	19.2 %	1.6 %	4.9 %	7.0 %	44.5 %	3.3 %	6.7 %	0.5 %	4.5 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	-0.001 ppb	0.000 ppb	100.104 %	96.653 %	0.188 ppb	12.880 ppb	103.856 %	102.011 %	104.048 %
Concentration per Run 1	0.000 ppb	0.000 ppb	100.924 %	92.503 %	0.142 ppb	12.648 ppb	104.692 %	96.001 %	104.124 %
Concentration per Run 2	-0.001 ppb	0.000 ppb	98.804 %	96.728 %	0.202 ppb	13.044 ppb	103.615 %	104.762 %	102.507 %
Concentration per Run 3	-0.001 ppb	0.002 ppb	100.585 %	100.729 %	0.221 ppb	12.949 ppb	103.260 %	105.271 %	105.511 %
Concentration RSD	61.9 %	336.1 %	1.1 %	4.3 %	22.0 %	1.6 %	0.7 %	5.1 %	1.4 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	105.732 %	0.022 ppb	0.008 ppb	103.062 %	102.408 %
Concentration per Run 1	101.351 %	0.022 ppb	0.008 ppb	103.999 %	97.468 %
Concentration per Run 2	107.143 %	0.021 ppb	0.008 ppb	103.892 %	102.351 %
Concentration per Run 3	108.702 %	0.023 ppb	0.008 ppb	101.295 %	107.406 %
Concentration RSD	3.7 %	4.1 %	2.2 %	1.5 %	4.9 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	118	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2430217-05 6020SL	Rack	2		
Analysis started at:	6/10/2024 6:41:52 PM	Vial	21		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	88.615 %	84.292 %	0.020 ppb	130.240 ppb	7,704.032 ppb	6,819.424 ppb	0.719 ppb	6,251.682 ppb	76,473.079 ppb
Concentration per Run 1	88.497 %	78.892 %	0.020 ppb	130.557 ppb	8,265.140 ppb	7,158.868 ppb	3.156 ppb	6,440.052 ppb	80,765.861 ppb
Concentration per Run 2	88.560 %	86.045 %	0.018 ppb	131.688 ppb	7,461.349 ppb	6,670.856 ppb	-0.079 ppb	6,217.614 ppb	74,858.943 ppb
Concentration per Run 3	88.789 %	87.938 %	0.023 ppb	128.476 ppb	7,385.607 ppb	6,628.549 ppb	-0.919 ppb	6,097.381 ppb	73,794.433 ppb
Concentration RSD	0.2 %	5.7 %	13.6 %	1.3 %	6.3 %	4.3 %	299.3 %	2.8 %	4.9 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	105.439 %	99.751 %	0.476 ppb	0.386 ppb	366.062 ppb	6,055.593 ppb	1.847 ppb	1.058 ppb	0.944 ppb
Concentration per Run 1	114.091 %	96.149 %	0.509 ppb	0.431 ppb	384.377 ppb	6,473.368 ppb	1.957 ppb	1.125 ppb	1.018 ppb
Concentration per Run 2	93.610 %	101.195 %	0.443 ppb	0.349 ppb	358.234 ppb	5,948.747 ppb	1.789 ppb	1.036 ppb	0.841 ppb
Concentration per Run 3	108.615 %	101.909 %	0.475 ppb	0.377 ppb	355.575 ppb	5,744.665 ppb	1.796 ppb	1.012 ppb	0.972 ppb
Concentration RSD	10.1 %	3.1 %	7.0 %	10.8 %	4.3 %	6.2 %	5.1 %	5.6 %	9.7 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.515 ppb	104.866 %	97.421 %	3.104 ppb	0.100 ppb	239.594 ppb	0.376 ppb	97.712 %	94.338 %
Concentration per Run 1	0.663 ppb	103.725 %	92.360 %	3.360 ppb	0.160 ppb	249.344 ppb	0.408 ppb	97.585 %	91.645 %
Concentration per Run 2	0.458 ppb	105.876 %	99.194 %	2.977 ppb	0.125 ppb	236.749 ppb	0.364 ppb	98.132 %	95.153 %
Concentration per Run 3	0.424 ppb	104.998 %	100.709 %	2.975 ppb	0.016 ppb	232.689 ppb	0.355 ppb	97.419 %	96.217 %
Concentration RSD	25.1 %	1.0 %	4.6 %	7.2 %	75.0 %	3.6 %	7.6 %	0.4 %	2.5 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	-0.001 ppb	0.018 ppb	99.375 %	97.744 %	0.163 ppb	16.181 ppb	102.619 %	102.380 %	103.438 %
Concentration per Run 1	-0.001 ppb	0.014 ppb	99.603 %	93.752 %	0.149 ppb	16.136 ppb	100.988 %	96.635 %	104.050 %
Concentration per Run 2	0.000 ppb	0.025 ppb	98.810 %	99.441 %	0.164 ppb	16.250 ppb	102.545 %	105.543 %	101.279 %
Concentration per Run 3	-0.001 ppb	0.016 ppb	99.712 %	100.040 %	0.176 ppb	16.158 ppb	104.324 %	104.963 %	104.985 %
Concentration RSD	26.3 %	33.0 %	0.5 %	3.6 %	8.3 %	0.4 %	1.6 %	4.9 %	1.9 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	105.995 %	0.028 ppb	0.009 ppb	101.118 %	101.284 %
Concentration per Run 1	100.198 %	0.026 ppb	0.009 ppb	101.825 %	96.386 %
Concentration per Run 2	108.047 %	0.028 ppb	0.009 ppb	99.968 %	101.881 %
Concentration per Run 3	109.740 %	0.031 ppb	0.008 ppb	101.560 %	105.585 %
Concentration RSD	4.8 %	8.6 %	7.4 %	1.0 %	4.6 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	119	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2430217-06 6020SL	Rack	2		
Analysis started at:	6/10/2024 6:46:35 PM	Vial	22		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.286 %	86.816 %	0.284 ppb	95.403 ppb	8,446.144 ppb	4,071.082 ppb	54.557 ppb	3,346.338 ppb	68,919.761 ppb
Concentration per Run 1	89.287 %	82.679 %	0.279 ppb	96.176 ppb	8,843.142 ppb	4,343.112 ppb	58.657 ppb	3,539.877 ppb	72,810.043 ppb
Concentration per Run 2	89.479 %	92.146 %	0.287 ppb	94.875 ppb	8,107.030 ppb	3,927.716 ppb	53.764 ppb	3,204.912 ppb	67,016.262 ppb
Concentration per Run 3	89.092 %	85.624 %	0.286 ppb	95.157 ppb	8,388.261 ppb	3,942.418 ppb	51.251 ppb	3,294.226 ppb	66,932.976 ppb
Concentration RSD	0.2 %	5.6 %	1.5 %	0.7 %	4.4 %	5.8 %	6.9 %	5.2 %	4.9 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	94.110 %	97.030 %	0.064 ppb	0.326 ppb	137.468 ppb	330.473 ppb	0.663 ppb	1.219 ppb	1.278 ppb
Concentration per Run 1	93.368 %	93.179 %	0.053 ppb	0.375 ppb	145.452 ppb	351.143 ppb	0.687 ppb	1.244 ppb	1.390 ppb
Concentration per Run 2	95.353 %	97.966 %	0.074 ppb	0.281 ppb	135.706 ppb	322.020 ppb	0.664 ppb	1.164 ppb	1.220 ppb
Concentration per Run 3	93.608 %	99.946 %	0.063 ppb	0.322 ppb	131.246 ppb	318.255 ppb	0.638 ppb	1.248 ppb	1.223 ppb
Concentration RSD	1.2 %	3.6 %	16.5 %	14.4 %	5.3 %	5.4 %	3.6 %	3.9 %	7.6 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	11.053 ppb	104.471 %	98.133 %	0.289 ppb	2.406 ppb	208.532 ppb	0.059 ppb	96.995 %	95.528 %
Concentration per Run 1	11.723 ppb	105.077 %	93.309 %	0.160 ppb	2.432 ppb	220.571 ppb	0.070 ppb	97.246 %	90.563 %
Concentration per Run 2	10.689 ppb	105.184 %	98.515 %	0.370 ppb	2.297 ppb	204.945 ppb	0.050 ppb	96.659 %	96.375 %
Concentration per Run 3	10.749 ppb	103.153 %	102.576 %	0.337 ppb	2.487 ppb	200.080 ppb	0.057 ppb	97.080 %	99.645 %
Concentration RSD	5.3 %	1.1 %	4.7 %	39.1 %	4.1 %	5.1 %	17.6 %	0.3 %	4.8 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	-0.001 ppb	0.113 ppb	104.149 %	99.647 %	0.186 ppb	9.853 ppb	105.674 %	103.828 %	105.561 %
Concentration per Run 1	-0.001 ppb	0.126 ppb	104.993 %	94.860 %	0.166 ppb	9.774 ppb	104.672 %	98.418 %	106.368 %
Concentration per Run 2	-0.001 ppb	0.116 ppb	103.893 %	99.099 %	0.209 ppb	9.836 ppb	106.180 %	105.316 %	104.913 %
Concentration per Run 3	-0.001 ppb	0.096 ppb	103.562 %	104.982 %	0.182 ppb	9.948 ppb	106.171 %	107.750 %	105.402 %
Concentration RSD	15.9 %	13.5 %	0.7 %	5.1 %	11.8 %	0.9 %	0.8 %	4.7 %	0.7 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	105.827 %	0.023 ppb	0.040 ppb	104.674 %	104.273 %
Concentration per Run 1	98.939 %	0.025 ppb	0.038 ppb	103.905 %	99.671 %
Concentration per Run 2	108.858 %	0.022 ppb	0.041 ppb	105.645 %	105.468 %
Concentration per Run 3	109.686 %	0.023 ppb	0.040 ppb	104.472 %	107.679 %
Concentration RSD	5.7 %	6.2 %	3.0 %	0.8 %	4.0 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	120	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2430217-07 6020SL	Rack	2		
Analysis started at:	6/10/2024 6:51:18 PM	Vial	23		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	91.295 %	92.567 %	0.092 ppb	11.567 ppb	7,113.597 ppb	2,202.589 ppb	36.050 ppb	734.728 ppb	2,077.437 ppb
Concentration per Run 1	91.292 %	92.356 %	0.091 ppb	11.597 ppb	7,280.777 ppb	2,210.108 ppb	37.390 ppb	750.395 ppb	2,081.761 ppb
Concentration per Run 2	90.557 %	92.146 %	0.088 ppb	11.713 ppb	7,083.517 ppb	2,209.242 ppb	33.432 ppb	745.155 ppb	2,062.173 ppb
Concentration per Run 3	92.035 %	93.198 %	0.096 ppb	11.392 ppb	6,976.497 ppb	2,188.417 ppb	37.329 ppb	708.635 ppb	2,088.377 ppb
Concentration RSD	0.8 %	0.6 %	4.2 %	1.4 %	2.2 %	0.6 %	6.3 %	3.1 %	0.7 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	98.526 %	97.680 %	0.093 ppb	0.674 ppb	25.303 ppb	7.457 ppb	0.038 ppb	0.864 ppb	0.337 ppb
Concentration per Run 1	109.559 %	97.301 %	0.080 ppb	0.712 ppb	25.789 ppb	6.217 ppb	0.047 ppb	0.919 ppb	0.351 ppb
Concentration per Run 2	92.747 %	97.122 %	0.083 ppb	0.614 ppb	25.052 ppb	8.262 ppb	0.040 ppb	0.804 ppb	0.320 ppb
Concentration per Run 3	93.273 %	98.615 %	0.116 ppb	0.695 ppb	25.068 ppb	7.893 ppb	0.027 ppb	0.868 ppb	0.341 ppb
Concentration RSD	9.7 %	0.8 %	21.4 %	7.8 %	1.7 %	14.6 %	26.0 %	6.6 %	4.7 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.616 ppb	106.436 %	98.541 %	0.015 ppb	0.219 ppb	25.123 ppb	0.046 ppb	102.346 %	97.801 %
Concentration per Run 1	0.587 ppb	104.985 %	95.977 %	0.105 ppb	0.176 ppb	25.822 ppb	0.037 ppb	102.843 %	95.186 %
Concentration per Run 2	0.638 ppb	105.802 %	100.704 %	-0.042 ppb	0.190 ppb	24.518 ppb	0.053 ppb	102.529 %	99.852 %
Concentration per Run 3	0.623 ppb	108.521 %	98.941 %	-0.017 ppb	0.292 ppb	25.028 ppb	0.049 ppb	101.665 %	98.365 %
Concentration RSD	4.2 %	1.7 %	2.4 %	509.6 %	28.9 %	2.6 %	18.0 %	0.6 %	2.4 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.081 ppb	106.633 %	101.019 %	0.109 ppb	23.508 ppb	109.281 %	103.188 %	108.976 %
Concentration per Run 1	0.000 ppb	0.087 ppb	107.343 %	97.800 %	0.092 ppb	23.616 ppb	106.992 %	100.004 %	110.331 %
Concentration per Run 2	-0.001 ppb	0.079 ppb	105.322 %	100.632 %	0.121 ppb	23.777 ppb	112.094 %	103.443 %	109.140 %
Concentration per Run 3	0.000 ppb	0.078 ppb	107.234 %	104.626 %	0.113 ppb	23.131 ppb	108.758 %	106.116 %	107.456 %
Concentration RSD	441.9 %	5.9 %	1.1 %	3.4 %	13.8 %	1.4 %	2.4 %	3.0 %	1.3 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.603 %	0.018 ppb	0.020 ppb	111.076 %	109.264 %
Concentration per Run 1	103.105 %	0.018 ppb	0.019 ppb	111.218 %	101.846 %
Concentration per Run 2	107.879 %	0.019 ppb	0.020 ppb	109.790 %	109.995 %
Concentration per Run 3	111.826 %	0.016 ppb	0.020 ppb	112.219 %	115.950 %
Concentration RSD	4.1 %	7.2 %	3.2 %	1.1 %	6.5 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	121	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2430217-08 6020SL	Rack	2		
Analysis started at:	6/10/2024 6:56:01 PM	Vial	24		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	87.945 %	90.603 %	0.015 ppb	178.234 ppb	4,328.464 ppb	7,124.465 ppb	1.800 ppb	10,207.167 ppb	91,215.602 ppb
Concentration per Run 1	88.209 %	82.889 %	0.016 ppb	178.983 ppb	4,700.820 ppb	7,568.692 ppb	2.288 ppb	10,901.078 ppb	98,180.398 ppb
Concentration per Run 2	87.400 %	92.356 %	0.013 ppb	177.620 ppb	4,235.949 ppb	7,093.726 ppb	1.454 ppb	10,037.483 ppb	89,006.979 ppb
Concentration per Run 3	88.225 %	96.564 %	0.015 ppb	178.099 ppb	4,048.624 ppb	6,710.977 ppb	1.657 ppb	9,682.940 ppb	86,459.429 ppb
Concentration RSD	0.5 %	7.7 %	9.2 %	0.4 %	7.8 %	6.0 %	24.2 %	6.1 %	6.8 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	94.508 %	98.572 %	0.291 ppb	0.418 ppb	1,015.865 ppb	31,820.546 ppb	3.850 ppb	1.925 ppb	0.421 ppb
Concentration per Run 1	95.209 %	92.692 %	0.407 ppb	0.476 ppb	1,096.977 ppb	34,810.367 ppb	4.272 ppb	2.092 ppb	0.456 ppb
Concentration per Run 2	92.396 %	99.524 %	0.219 ppb	0.432 ppb	990.346 ppb	30,591.387 ppb	3.635 ppb	1.949 ppb	0.419 ppb
Concentration per Run 3	95.920 %	103.500 %	0.245 ppb	0.345 ppb	960.273 ppb	30,059.885 ppb	3.643 ppb	1.735 ppb	0.389 ppb
Concentration RSD	2.0 %	5.5 %	35.1 %	16.0 %	7.1 %	8.2 %	9.5 %	9.3 %	8.0 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	1.131 ppb	104.339 %	97.188 %	3.760 ppb	0.129 ppb	296.445 ppb	0.872 ppb	96.898 %	93.398 %
Concentration per Run 1	1.325 ppb	104.280 %	89.059 %	4.136 ppb	0.063 ppb	315.120 ppb	0.982 ppb	97.840 %	88.766 %
Concentration per Run 2	1.018 ppb	103.570 %	99.083 %	3.603 ppb	0.214 ppb	285.227 ppb	0.788 ppb	97.513 %	97.149 %
Concentration per Run 3	1.048 ppb	105.165 %	103.421 %	3.541 ppb	0.111 ppb	288.989 ppb	0.846 ppb	95.342 %	94.280 %
Concentration RSD	15.0 %	0.8 %	7.6 %	8.7 %	59.8 %	5.5 %	11.4 %	1.4 %	4.6 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	-0.001 ppb	0.000 ppb	100.046 %	96.802 %	0.086 ppb	87.525 ppb	104.941 %	99.635 %	105.659 %
Concentration per Run 1	-0.001 ppb	0.000 ppb	101.503 %	90.751 %	0.068 ppb	85.371 ppb	107.084 %	94.775 %	106.845 %
Concentration per Run 2	-0.002 ppb	0.002 ppb	97.909 %	98.904 %	0.097 ppb	89.927 ppb	102.880 %	103.447 %	105.476 %
Concentration per Run 3	0.000 ppb	0.000 ppb	100.725 %	100.750 %	0.093 ppb	87.277 ppb	104.861 %	100.683 %	104.656 %
Concentration RSD	94.9 %	332.2 %	1.9 %	5.5 %	18.1 %	2.6 %	2.0 %	4.4 %	1.0 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	105.404 %	0.014 ppb	0.026 ppb	100.970 %	101.890 %
Concentration per Run 1	98.166 %	0.014 ppb	0.027 ppb	101.529 %	96.586 %
Concentration per Run 2	109.571 %	0.015 ppb	0.025 ppb	99.190 %	102.774 %
Concentration per Run 3	108.475 %	0.014 ppb	0.025 ppb	102.192 %	106.309 %
Concentration RSD	6.0 %	4.6 %	3.3 %	1.6 %	4.8 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	122	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2430217-09 6020SL	Rack	2		
Analysis started at:	6/10/2024 7:00:44 PM	Vial	25		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	85.772 %	87.167 %	0.017 ppb	392.699 ppb	25,433.734 ppb	19,737.046 ppb	0.758 ppb	35,123.578 ppb	105,054.314 ppb
Concentration per Run 1	85.385 %	77.840 %	0.015 ppb	395.043 ppb	27,885.857 ppb	21,712.483 ppb	1.878 ppb	36,940.382 ppb	109,693.778 ppb
Concentration per Run 2	86.010 %	96.353 %	0.016 ppb	391.545 ppb	23,554.814 ppb	18,185.150 ppb	0.943 ppb	34,156.876 ppb	103,284.933 ppb
Concentration per Run 3	85.921 %	87.307 %	0.019 ppb	391.510 ppb	24,860.532 ppb	19,313.506 ppb	-0.547 ppb	34,273.476 ppb	102,184.229 ppb
Concentration RSD	0.4 %	10.6 %	11.3 %	0.5 %	8.7 %	9.1 %	161.4 %	4.5 %	3.9 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	97.044 %	100.703 %	0.431 ppb	0.476 ppb	1,361.293 ppb	40,196.617 ppb	11.416 ppb	12.969 ppb	0.311 ppb
Concentration per Run 1	96.523 %	96.181 %	0.445 ppb	0.514 ppb	1,448.757 ppb	42,401.264 ppb	12.510 ppb	13.856 ppb	0.343 ppb
Concentration per Run 2	96.756 %	101.293 %	0.466 ppb	0.463 ppb	1,324.281 ppb	38,908.501 ppb	10.805 ppb	12.515 ppb	0.280 ppb
Concentration per Run 3	97.854 %	104.636 %	0.381 ppb	0.453 ppb	1,310.841 ppb	39,280.085 ppb	10.933 ppb	12.536 ppb	0.310 ppb
Concentration RSD	0.7 %	4.2 %	10.2 %	6.8 %	5.6 %	4.8 %	8.3 %	5.9 %	10.0 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	1.011 ppb	106.367 %	97.107 %	7.015 ppb	0.109 ppb	402.277 ppb	0.885 ppb	93.286 %	91.869 %
Concentration per Run 1	1.077 ppb	105.761 %	91.166 %	7.545 ppb	0.050 ppb	417.049 ppb	0.917 ppb	93.535 %	88.608 %
Concentration per Run 2	0.962 ppb	107.708 %	100.460 %	6.720 ppb	0.100 ppb	390.173 ppb	0.843 ppb	92.595 %	92.993 %
Concentration per Run 3	0.996 ppb	105.633 %	99.696 %	6.780 ppb	0.177 ppb	399.608 ppb	0.896 ppb	93.727 %	94.007 %
Concentration RSD	5.8 %	1.1 %	5.3 %	6.6 %	59.0 %	3.4 %	4.3 %	0.6 %	3.1 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.002 ppb	97.210 %	95.470 %	0.273 ppb	123.703 ppb	102.336 %	100.084 %	103.620 %
Concentration per Run 1	-0.001 ppb	0.000 ppb	96.849 %	89.968 %	0.274 ppb	122.211 ppb	103.629 %	93.159 %	101.894 %
Concentration per Run 2	0.000 ppb	0.003 ppb	96.524 %	97.832 %	0.255 ppb	125.759 ppb	102.445 %	103.171 %	105.470 %
Concentration per Run 3	0.000 ppb	0.004 ppb	98.256 %	98.608 %	0.289 ppb	123.138 ppb	100.935 %	103.924 %	103.495 %
Concentration RSD	66.9 %	102.9 %	0.9 %	5.0 %	6.3 %	1.5 %	1.3 %	6.0 %	1.7 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	103.104 %	0.516 ppb	0.027 ppb	98.586 %	98.443 %
Concentration per Run 1	98.616 %	0.515 ppb	0.027 ppb	97.906 %	94.620 %
Concentration per Run 2	104.273 %	0.525 ppb	0.027 ppb	97.465 %	99.782 %
Concentration per Run 3	106.422 %	0.510 ppb	0.028 ppb	100.386 %	100.928 %
Concentration RSD	3.9 %	1.5 %	0.8 %	1.6 %	3.4 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	123	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2430217-10 6020SL	Rack	2		
Analysis started at:	6/10/2024 7:05:27 PM	Vial	26		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	86.944 %	90.533 %	0.015 ppb	284.308 ppb	10,075.582 ppb	13,952.683 ppb	1.067 ppb	17,419.709 ppb	108,662.299 ppb
Concentration per Run 1	86.898 %	90.883 %	0.015 ppb	286.839 ppb	10,453.884 ppb	14,360.622 ppb	-0.048 ppb	18,310.930 ppb	114,360.393 ppb
Concentration per Run 2	87.152 %	90.883 %	0.013 ppb	283.997 ppb	9,886.318 ppb	13,645.803 ppb	-0.535 ppb	16,889.287 ppb	106,435.730 ppb
Concentration per Run 3	86.782 %	89.832 %	0.016 ppb	282.087 ppb	9,886.545 ppb	13,851.625 ppb	3.784 ppb	17,058.909 ppb	105,190.775 ppb
Concentration RSD	0.2 %	0.7 %	9.7 %	0.8 %	3.3 %	2.6 %	221.8 %	4.5 %	4.6 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	95.763 %	99.686 %	0.604 ppb	0.550 ppb	2,312.983 ppb	38,440.654 ppb	9.073 ppb	4.018 ppb	0.189 ppb
Concentration per Run 1	93.858 %	95.159 %	0.586 ppb	0.620 ppb	2,437.573 ppb	41,108.945 ppb	9.650 ppb	4.305 ppb	0.189 ppb
Concentration per Run 2	97.746 %	100.660 %	0.642 ppb	0.480 ppb	2,261.091 ppb	36,937.880 ppb	8.792 ppb	3.903 ppb	0.172 ppb
Concentration per Run 3	95.686 %	103.240 %	0.583 ppb	0.548 ppb	2,240.285 ppb	37,275.138 ppb	8.778 ppb	3.846 ppb	0.205 ppb
Concentration RSD	2.0 %	4.1 %	5.5 %	12.8 %	4.7 %	6.0 %	5.5 %	6.2 %	8.8 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.357 ppb	105.292 %	95.348 %	8.746 ppb	0.066 ppb	334.062 ppb	1.180 ppb	95.678 %	92.263 %
Concentration per Run 1	0.352 ppb	105.231 %	90.835 %	9.356 ppb	0.084 ppb	348.186 ppb	1.215 ppb	94.287 %	87.803 %
Concentration per Run 2	0.340 ppb	106.449 %	97.266 %	8.460 ppb	0.053 ppb	323.369 ppb	1.233 ppb	96.031 %	93.493 %
Concentration per Run 3	0.378 ppb	104.197 %	97.943 %	8.422 ppb	0.060 ppb	330.631 ppb	1.092 ppb	96.716 %	95.492 %
Concentration RSD	5.5 %	1.1 %	4.1 %	6.0 %	24.6 %	3.8 %	6.5 %	1.3 %	4.3 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	-0.001 ppb	0.000 ppb	96.416 %	94.347 %	0.100 ppb	84.451 ppb	102.906 %	100.555 %	103.997 %
Concentration per Run 1	-0.001 ppb	0.001 ppb	95.784 %	89.931 %	0.096 ppb	83.162 ppb	102.471 %	94.197 %	105.254 %
Concentration per Run 2	-0.001 ppb	0.000 ppb	98.120 %	95.630 %	0.106 ppb	84.723 ppb	104.389 %	102.329 %	104.177 %
Concentration per Run 3	-0.001 ppb	0.000 ppb	95.345 %	97.478 %	0.098 ppb	85.469 ppb	101.857 %	105.139 %	102.558 %
Concentration RSD	29.6 %	1,319.5 %	1.5 %	4.2 %	5.0 %	1.4 %	1.3 %	5.7 %	1.3 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	103.855 %	0.049 ppb	0.007 ppb	98.337 %	96.626 %
Concentration per Run 1	98.349 %	0.050 ppb	0.007 ppb	97.752 %	93.231 %
Concentration per Run 2	105.047 %	0.048 ppb	0.008 ppb	98.265 %	96.696 %
Concentration per Run 3	108.169 %	0.048 ppb	0.006 ppb	98.994 %	99.952 %
Concentration RSD	4.8 %	2.5 %	9.1 %	0.6 %	3.5 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	124	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2430217-11 6020SL	Rack	2		
Analysis started at:	6/10/2024 7:10:09 PM	Vial	27		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	85.717 %	83.590 %	0.015 ppb	384.651 ppb	22,437.345 ppb	22,500.503 ppb	1.131 ppb	35,738.402 ppb	110,622.905 ppb
Concentration per Run 1	86.050 %	84.151 %	0.014 ppb	386.832 ppb	23,031.922 ppb	22,965.022 ppb	0.907 ppb	36,313.531 ppb	114,213.787 ppb
Concentration per Run 2	85.597 %	90.252 %	0.016 ppb	390.643 ppb	21,501.901 ppb	22,045.774 ppb	0.760 ppb	35,971.353 ppb	111,586.910 ppb
Concentration per Run 3	85.504 %	76.367 %	0.015 ppb	376.477 ppb	22,778.212 ppb	22,490.712 ppb	1.727 ppb	34,930.322 ppb	106,068.019 ppb
Concentration RSD	0.3 %	8.3 %	9.4 %	1.9 %	3.7 %	2.0 %	46.1 %	2.0 %	3.8 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	100.491 %	98.004 %	0.479 ppb	0.389 ppb	3,908.938 ppb	23,029.405 ppb	14.214 ppb	13.054 ppb	0.230 ppb
Concentration per Run 1	92.873 %	94.915 %	0.528 ppb	0.441 ppb	4,088.892 ppb	24,562.709 ppb	15.158 ppb	13.946 ppb	0.222 ppb
Concentration per Run 2	95.789 %	96.360 %	0.429 ppb	0.390 ppb	3,900.805 ppb	22,748.860 ppb	14.417 ppb	12.781 ppb	0.241 ppb
Concentration per Run 3	112.812 %	102.737 %	0.481 ppb	0.337 ppb	3,737.117 ppb	21,776.647 ppb	13.067 ppb	12.435 ppb	0.227 ppb
Concentration RSD	10.7 %	4.2 %	10.3 %	13.4 %	4.5 %	6.1 %	7.5 %	6.1 %	4.3 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	1.776 ppb	108.135 %	98.182 %	5.759 ppb	0.227 ppb	383.149 ppb	0.728 ppb	94.740 %	92.471 %
Concentration per Run 1	1.886 ppb	107.980 %	92.705 %	5.917 ppb	0.191 ppb	409.999 ppb	0.796 ppb	94.244 %	87.149 %
Concentration per Run 2	1.689 ppb	110.366 %	102.257 %	5.460 ppb	0.421 ppb	366.171 ppb	0.662 ppb	97.178 %	95.336 %
Concentration per Run 3	1.752 ppb	106.058 %	99.585 %	5.901 ppb	0.068 ppb	373.275 ppb	0.726 ppb	92.799 %	94.929 %
Concentration RSD	5.7 %	2.0 %	5.0 %	4.5 %	79.1 %	6.1 %	9.2 %	2.4 %	5.0 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.002 ppb	94.049 %	95.768 %	0.067 ppb	73.542 ppb	103.757 %	100.154 %	103.060 %
Concentration per Run 1	-0.001 ppb	0.000 ppb	95.747 %	89.559 %	0.062 ppb	72.089 ppb	103.769 %	94.438 %	103.472 %
Concentration per Run 2	0.000 ppb	0.005 ppb	96.189 %	97.949 %	0.066 ppb	72.689 ppb	105.142 %	101.577 %	103.960 %
Concentration per Run 3	0.000 ppb	0.000 ppb	90.210 %	99.794 %	0.073 ppb	75.848 ppb	102.359 %	104.447 %	101.747 %
Concentration RSD	62.2 %	213.6 %	3.5 %	5.7 %	8.5 %	2.7 %	1.3 %	5.1 %	1.1 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	101.992 %	0.100 ppb	0.020 ppb	97.235 %	95.798 %
Concentration per Run 1	96.446 %	0.096 ppb	0.018 ppb	97.079 %	90.730 %
Concentration per Run 2	103.887 %	0.100 ppb	0.021 ppb	96.521 %	97.544 %
Concentration per Run 3	105.643 %	0.102 ppb	0.021 ppb	98.106 %	99.119 %
Concentration RSD	4.8 %	3.2 %	8.7 %	0.8 %	4.7 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	125	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	6/10/2024 7:14:51 PM	Vial	9		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	87.553 %	84.923 %	59.952 ppb	61.407 ppb	6,148.756 ppb	6,213.522 ppb	65.824 ppb	5,986.600 ppb	6,380.448 ppb
Concentration per Run 1	87.643 %	79.733 %	60.081 ppb	61.851 ppb	6,625.753 ppb	6,610.732 ppb	62.056 ppb	6,287.096 ppb	6,533.696 ppb
Concentration per Run 2	87.509 %	79.313 %	60.345 ppb	61.802 ppb	6,147.372 ppb	6,229.471 ppb	70.594 ppb	5,827.612 ppb	6,204.181 ppb
Concentration per Run 3	87.507 %	95.722 %	59.430 ppb	60.567 ppb	5,673.142 ppb	5,800.362 ppb	64.822 ppb	5,845.092 ppb	6,403.468 ppb
Recovery Percentage 1			99.920 %	102.344 %	102.479 %	103.559 %	109.707 %	99.777 %	106.341 %
Concentration RSD	0.1 %	11.0 %	0.8 %	1.2 %	7.7 %	6.5 %	6.6 %	4.3 %	2.6 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	109.986 %	99.264 %	63.039 ppb	63.331 ppb	61.916 ppb	6,183.294 ppb	63.059 ppb	63.153 ppb	61.466 ppb
Concentration per Run 1	109.605 %	94.786 %	66.672 ppb	67.408 ppb	64.956 ppb	6,459.239 ppb	66.401 ppb	68.475 ppb	66.637 ppb
Concentration per Run 2	107.924 %	102.331 %	61.239 ppb	60.924 ppb	60.299 ppb	6,044.493 ppb	59.653 ppb	58.888 ppb	57.568 ppb
Concentration per Run 3	112.428 %	100.676 %	61.206 ppb	61.662 ppb	60.493 ppb	6,046.151 ppb	63.122 ppb	62.096 ppb	60.191 ppb
Recovery Percentage 1			105.065 %	105.552 %	103.193 %	103.055 %	105.098 %	105.255 %	102.443 %
Concentration RSD	2.1 %	4.0 %	5.0 %	5.6 %	4.3 %	3.9 %	5.4 %	7.7 %	7.6 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	60.159 ppb	103.771 %	97.870 %	58.610 ppb	59.219 ppb	60.994 ppb	59.280 ppb	99.677 %	95.963 %
Concentration per Run 1	63.791 ppb	103.635 %	93.175 %	61.610 ppb	60.899 ppb	63.876 ppb	63.798 ppb	99.618 %	90.989 %
Concentration per Run 2	57.812 ppb	104.897 %	100.184 %	57.345 ppb	59.199 ppb	58.934 ppb	57.277 ppb	100.599 %	97.284 %
Concentration per Run 3	58.873 ppb	102.780 %	100.250 %	56.876 ppb	57.559 ppb	60.171 ppb	56.765 ppb	98.813 %	99.614 %
Recovery Percentage 1	100.265 %			97.684 %	98.699 %	101.656 %	98.800 %		
Concentration RSD	5.3 %	1.0 %	4.2 %	4.4 %	2.8 %	4.2 %	6.6 %	0.9 %	4.6 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	61.011 ppb	61.891 ppb	101.962 %	99.395 %	55.415 ppb	59.640 ppb	104.641 %	102.063 %	103.442 %
Concentration per Run 1	64.240 ppb	65.479 ppb	101.917 %	94.730 %	58.170 ppb	59.040 ppb	103.749 %	97.962 %	103.197 %
Concentration per Run 2	59.823 ppb	60.820 ppb	101.340 %	100.125 %	54.949 ppb	60.849 ppb	102.672 %	102.727 %	102.353 %
Concentration per Run 3	58.969 ppb	59.374 ppb	102.627 %	103.331 %	53.126 ppb	59.031 ppb	107.502 %	105.500 %	104.775 %
Recovery Percentage 1	101.685 %	103.152 %			92.358 %	99.400 %			
Concentration RSD	4.6 %	5.2 %	0.6 %	4.4 %	4.6 %	1.8 %	2.4 %	3.7 %	1.2 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	106.537 %	59.353 ppb	60.779 ppb	103.859 %	104.600 %
Concentration per Run 1	100.192 %	60.281 ppb	60.588 ppb	103.182 %	98.430 %
Concentration per Run 2	107.473 %	59.529 ppb	62.005 ppb	102.695 %	106.021 %
Concentration per Run 3	111.946 %	58.249 ppb	59.744 ppb	105.699 %	109.349 %
Recovery Percentage 1		98.921 %	101.298 %		
Concentration RSD	5.6 %	1.7 %	1.9 %	1.6 %	5.4 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	126	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/10/2024 7:19:37 PM	Vial	10		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.439 %	87.868 %	0.019 ppb	0.807 ppb	-5.643 ppb	0.604 ppb	-1.379 ppb	-13.766 ppb	4.782 ppb
Concentration per Run 1	90.002 %	82.258 %	0.025 ppb	0.822 ppb	-0.781 ppb	0.609 ppb	-0.330 ppb	-13.496 ppb	3.791 ppb
Concentration per Run 2	89.300 %	95.722 %	0.018 ppb	0.814 ppb	-9.843 ppb	0.073 ppb	-2.529 ppb	-18.305 ppb	0.251 ppb
Concentration per Run 3	89.017 %	85.624 %	0.015 ppb	0.785 ppb	-6.306 ppb	1.131 ppb	-1.278 ppb	-9.499 ppb	10.303 ppb
Recovery Percentage 1			3.855 %	8.073 %	-5.643 %	0.863 %	-13.792 %	-13.766 %	4.782 %
Concentration RSD	0.6 %	8.0 %	25.7 %	2.4 %	80.9 %	87.6 %	80.0 %	32.0 %	106.6 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	101.602 %	96.884 %	0.001 ppb	0.005 ppb	0.164 ppb	4.849 ppb	0.002 ppb	-0.006 ppb	0.002 ppb
Concentration per Run 1	105.188 %	93.926 %	-0.014 ppb	0.014 ppb	0.178 ppb	3.934 ppb	0.002 ppb	-0.008 ppb	0.022 ppb
Concentration per Run 2	90.212 %	97.398 %	0.024 ppb	0.003 ppb	0.173 ppb	5.412 ppb	0.003 ppb	-0.026 ppb	-0.011 ppb
Concentration per Run 3	109.406 %	99.329 %	-0.007 ppb	0.000 ppb	0.142 ppb	5.201 ppb	0.002 ppb	0.016 ppb	-0.004 ppb
Recovery Percentage 1			0.024 %	0.550 %	16.412 %	9.698 %	0.463 %	-0.301 %	0.246 %
Concentration RSD	9.9 %	2.8 %	1,676.4 %	140.9 %	11.9 %	16.5 %	16.2 %	345.6 %	694.2 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.010 ppb	102.151 %	95.340 %	0.056 ppb	0.097 ppb	0.007 ppb	0.187 ppb	102.631 %	100.131 %
Concentration per Run 1	0.024 ppb	103.627 %	89.983 %	0.080 ppb	0.101 ppb	0.029 ppb	0.163 ppb	101.515 %	95.288 %
Concentration per Run 2	0.005 ppb	102.265 %	98.143 %	0.038 ppb	0.126 ppb	-0.008 ppb	0.180 ppb	103.271 %	103.082 %
Concentration per Run 3	0.001 ppb	100.563 %	97.895 %	0.049 ppb	0.063 ppb	0.000 ppb	0.217 ppb	103.108 %	102.023 %
Recovery Percentage 1	0.200 %			11.127 %	1.934 %	1.358 %	9.339 %		
Concentration RSD	121.2 %	1.5 %	4.9 %	38.7 %	32.7 %	287.3 %	14.8 %	0.9 %	4.2 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.003 ppb	0.004 ppb	104.423 %	101.211 %	1.271 ppb	0.011 ppb	106.810 %	103.289 %	107.727 %
Concentration per Run 1	0.003 ppb	0.006 ppb	104.782 %	96.544 %	1.147 ppb	0.013 ppb	105.778 %	96.712 %	105.936 %
Concentration per Run 2	0.004 ppb	0.005 ppb	105.265 %	102.421 %	1.306 ppb	0.010 ppb	109.027 %	105.416 %	109.097 %
Concentration per Run 3	0.003 ppb	0.001 ppb	103.222 %	104.669 %	1.360 ppb	0.010 ppb	105.626 %	107.739 %	108.146 %
Recovery Percentage 1	0.867 %				31.770 %	2.190 %			
Concentration RSD	19.6 %	74.0 %	1.0 %	4.1 %	8.7 %	19.7 %	1.8 %	5.6 %	1.5 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	105.837 %	0.060 ppb	0.006 ppb	108.700 %	108.982 %
Concentration per Run 1	99.876 %	0.067 ppb	0.007 ppb	108.867 %	104.189 %
Concentration per Run 2	108.060 %	0.062 ppb	0.007 ppb	107.528 %	110.426 %
Concentration per Run 3	109.575 %	0.052 ppb	0.006 ppb	109.704 %	112.331 %
Recovery Percentage 1		6.034 %	0.637 %		
Concentration RSD	4.9 %	12.3 %	9.9 %	1.0 %	3.9 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	127	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1930656-1 6020SL	Rack	2		
Analysis started at:	6/10/2024 7:24:24 PM	Vial	33		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	90.359 %	85.414 %	0.011 ppb	0.627 ppb	-7.363 ppb	1.011 ppb	0.018 ppb	-22.209 ppb	10.197 ppb
Concentration per Run 1	90.909 %	84.993 %	0.015 ppb	0.657 ppb	-5.468 ppb	1.408 ppb	1.793 ppb	-20.994 ppb	3.661 ppb
Concentration per Run 2	90.223 %	86.255 %	0.011 ppb	0.610 ppb	-6.402 ppb	0.685 ppb	-1.251 ppb	-21.406 ppb	14.118 ppb
Concentration per Run 3	89.944 %	84.993 %	0.005 ppb	0.614 ppb	-10.219 ppb	0.940 ppb	-0.487 ppb	-24.227 ppb	12.813 ppb
Concentration RSD	0.5 %	0.9 %	48.9 %	4.1 %	34.2 %	36.3 %	8,740.9 %	7.9 %	55.9 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	101.392 %	97.052 %	-0.003 ppb	-0.038 ppb	0.142 ppb	4.319 ppb	0.001 ppb	-0.031 ppb	0.049 ppb
Concentration per Run 1	91.140 %	93.001 %	-0.013 ppb	-0.049 ppb	0.168 ppb	2.998 ppb	-0.004 ppb	-0.028 ppb	0.065 ppb
Concentration per Run 2	106.984 %	95.970 %	0.029 ppb	-0.023 ppb	0.149 ppb	5.432 ppb	0.004 ppb	-0.053 ppb	0.053 ppb
Concentration per Run 3	106.053 %	102.185 %	-0.024 ppb	-0.041 ppb	0.109 ppb	4.527 ppb	0.003 ppb	-0.011 ppb	0.029 ppb
Concentration RSD	8.8 %	4.8 %	971.4 %	36.1 %	21.2 %	28.5 %	409.4 %	68.8 %	37.9 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.166 ppb	103.756 %	96.183 %	0.028 ppb	-0.015 ppb	0.038 ppb	0.058 ppb	104.873 %	98.804 %
Concentration per Run 1	0.231 ppb	103.783 %	89.044 %	0.033 ppb	-0.035 ppb	0.052 ppb	0.036 ppb	103.310 %	94.069 %
Concentration per Run 2	0.124 ppb	104.152 %	99.623 %	0.017 ppb	0.028 ppb	0.027 ppb	0.088 ppb	106.372 %	100.947 %
Concentration per Run 3	0.143 ppb	103.335 %	99.881 %	0.035 ppb	-0.039 ppb	0.036 ppb	0.052 ppb	104.937 %	101.395 %
Concentration RSD	34.7 %	0.4 %	6.4 %	33.5 %	243.4 %	33.7 %	45.5 %	1.5 %	4.2 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.005 ppb	0.004 ppb	105.933 %	101.357 %	0.311 ppb	0.438 ppb	107.548 %	105.041 %	107.470 %
Concentration per Run 1	0.000 ppb	0.000 ppb	106.214 %	95.798 %	0.258 ppb	0.439 ppb	108.791 %	99.676 %	109.121 %
Concentration per Run 2	0.013 ppb	0.014 ppb	106.665 %	101.697 %	0.318 ppb	0.437 ppb	108.240 %	108.231 %	108.020 %
Concentration per Run 3	0.002 ppb	0.000 ppb	104.919 %	106.577 %	0.358 ppb	0.437 ppb	105.612 %	107.215 %	105.269 %
Concentration RSD	127.3 %	187.4 %	0.9 %	5.3 %	16.2 %	0.3 %	1.6 %	4.4 %	1.8 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	106.290 %	0.023 ppb	0.006 ppb	112.562 %	108.717 %
Concentration per Run 1	101.460 %	0.023 ppb	0.006 ppb	113.585 %	102.444 %
Concentration per Run 2	109.363 %	0.022 ppb	0.006 ppb	113.863 %	112.519 %
Concentration per Run 3	108.047 %	0.024 ppb	0.006 ppb	110.237 %	111.189 %
Concentration RSD	4.0 %	4.4 %	2.3 %	1.8 %	5.0 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	128	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1930656-2d10 6020SL	Rack	2		
Analysis started at:	6/10/2024 7:29:06 PM	Vial	34		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.615 %	88.008 %	5.188 ppb	105.467 ppb	1,104.271 ppb	1,080.270 ppb	227.473 ppb	1,048.278 ppb	1,106.616 ppb
Concentration per Run 1	90.154 %	78.261 %	5.189 ppb	105.969 ppb	1,185.952 ppb	1,150.987 ppb	247.345 ppb	1,083.387 ppb	1,327.906 ppb
Concentration per Run 2	89.370 %	95.091 %	5.154 ppb	105.561 ppb	1,057.030 ppb	1,032.793 ppb	215.974 ppb	1,012.602 ppb	910.921 ppb
Concentration per Run 3	89.320 %	90.673 %	5.220 ppb	104.871 ppb	1,069.831 ppb	1,057.029 ppb	219.101 ppb	1,048.844 ppb	1,081.022 ppb
Concentration RSD	0.5 %	9.9 %	0.6 %	0.5 %	6.4 %	5.8 %	7.6 %	3.4 %	18.9 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	107.668 %	98.047 %	54.698 ppb	22.329 ppb	54.387 ppb	111.958 ppb	54.599 ppb	54.347 ppb	25.851 ppb
Concentration per Run 1	109.286 %	96.392 %	57.286 ppb	23.203 ppb	56.236 ppb	119.717 ppb	56.498 ppb	57.601 ppb	26.689 ppb
Concentration per Run 2	106.828 %	99.216 %	53.110 ppb	22.129 ppb	53.125 ppb	107.546 ppb	53.908 ppb	53.159 ppb	25.464 ppb
Concentration per Run 3	106.891 %	98.534 %	53.698 ppb	21.656 ppb	53.800 ppb	108.611 ppb	53.393 ppb	52.283 ppb	25.399 ppb
Concentration RSD	1.3 %	1.5 %	4.1 %	3.6 %	3.0 %	6.0 %	3.0 %	5.2 %	2.8 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	51.662 ppb	102.715 %	99.201 %	12.041 ppb	12.422 ppb	104.933 ppb	101.602 ppb	102.434 %	97.626 %
Concentration per Run 1	54.196 ppb	102.885 %	95.125 %	12.702 ppb	13.746 ppb	109.750 ppb	108.076 ppb	102.820 %	93.058 %
Concentration per Run 2	49.792 ppb	101.676 %	101.406 %	11.779 ppb	11.565 ppb	101.845 ppb	101.331 ppb	102.468 %	99.174 %
Concentration per Run 3	50.998 ppb	103.584 %	101.071 %	11.643 ppb	11.954 ppb	103.204 ppb	95.398 ppb	102.015 %	100.644 %
Concentration RSD	4.4 %	0.9 %	3.6 %	4.8 %	9.4 %	4.0 %	6.2 %	0.4 %	4.1 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	5.236 ppb	5.643 ppb	107.215 %	104.432 %	50.285 ppb	225.026 ppb	107.737 %	105.485 %	107.296 %
Concentration per Run 1	5.639 ppb	5.923 ppb	106.853 %	96.923 %	54.028 ppb	228.620 ppb	107.432 %	99.269 %	110.120 %
Concentration per Run 2	4.997 ppb	5.561 ppb	106.955 %	108.060 %	48.657 ppb	223.780 ppb	107.182 %	107.473 %	106.067 %
Concentration per Run 3	5.073 ppb	5.446 ppb	107.838 %	108.312 %	48.170 ppb	222.677 ppb	108.596 %	109.712 %	105.700 %
Concentration RSD	6.7 %	4.4 %	0.5 %	6.2 %	6.5 %	1.4 %	0.7 %	5.2 %	2.3 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	109.319 %	10.359 ppb	57.110 ppb	108.764 %	107.871 %
Concentration per Run 1	101.974 %	10.292 ppb	56.041 ppb	110.594 %	100.187 %
Concentration per Run 2	112.240 %	10.279 ppb	57.355 ppb	108.385 %	112.364 %
Concentration per Run 3	113.742 %	10.508 ppb	57.934 ppb	107.313 %	111.061 %
Concentration RSD	5.9 %	1.2 %	1.7 %	1.5 %	6.2 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	129	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2430217-12 6020SL	Rack	2		
Analysis started at:	6/10/2024 7:33:49 PM	Vial	28		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	87.942 %	86.465 %	0.019 ppb	125.660 ppb	8,238.666 ppb	7,095.664 ppb	1.421 ppb	16,581.573 ppb	53,058.374 ppb
Concentration per Run 1	87.168 %	90.673 %	0.015 ppb	126.375 ppb	8,193.308 ppb	7,041.193 ppb	3.175 ppb	16,928.180 ppb	55,192.483 ppb
Concentration per Run 2	88.163 %	86.255 %	0.021 ppb	125.178 ppb	8,312.883 ppb	6,941.674 ppb	0.747 ppb	16,385.264 ppb	51,686.443 ppb
Concentration per Run 3	88.495 %	82.468 %	0.022 ppb	125.429 ppb	8,209.807 ppb	7,304.123 ppb	0.341 ppb	16,431.275 ppb	52,296.196 ppb
Concentration RSD	0.8 %	4.7 %	19.5 %	0.5 %	0.8 %	2.6 %	107.9 %	1.8 %	3.5 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	95.536 %	100.384 %	0.640 ppb	0.726 ppb	3,420.011 ppb	33,921.191 ppb	1.277 ppb	0.560 ppb	0.092 ppb
Concentration per Run 1	95.371 %	97.203 %	0.709 ppb	0.793 ppb	3,569.688 ppb	35,927.086 ppb	1.324 ppb	0.598 ppb	0.101 ppb
Concentration per Run 2	97.021 %	100.416 %	0.549 ppb	0.679 ppb	3,375.551 ppb	32,973.218 ppb	1.257 ppb	0.573 ppb	0.081 ppb
Concentration per Run 3	94.216 %	103.532 %	0.663 ppb	0.705 ppb	3,314.794 ppb	32,863.267 ppb	1.250 ppb	0.508 ppb	0.095 ppb
Concentration RSD	1.5 %	3.2 %	12.9 %	8.2 %	3.9 %	5.1 %	3.2 %	8.4 %	11.3 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.539 ppb	109.997 %	98.060 %	8.754 ppb	0.153 ppb	155.317 ppb	0.617 ppb	98.725 %	95.406 %
Concentration per Run 1	0.716 ppb	110.750 %	94.326 %	9.394 ppb	0.298 ppb	160.123 ppb	0.535 ppb	97.965 %	91.781 %
Concentration per Run 2	0.454 ppb	108.373 %	99.579 %	8.388 ppb	-0.020 ppb	153.882 ppb	0.668 ppb	99.802 %	96.528 %
Concentration per Run 3	0.446 ppb	110.867 %	100.276 %	8.481 ppb	0.183 ppb	151.946 ppb	0.648 ppb	98.408 %	97.910 %
Concentration RSD	28.5 %	1.3 %	3.3 %	6.3 %	104.9 %	2.8 %	11.6 %	1.0 %	3.4 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.000 ppb	99.714 %	99.094 %	0.830 ppb	35.656 ppb	108.308 %	104.165 %	109.861 %
Concentration per Run 1	-0.001 ppb	0.000 ppb	100.482 %	94.823 %	0.780 ppb	34.992 ppb	109.906 %	99.195 %	109.353 %
Concentration per Run 2	0.001 ppb	0.002 ppb	101.646 %	99.185 %	0.854 ppb	35.218 ppb	110.258 %	106.488 %	111.855 %
Concentration per Run 3	0.000 ppb	0.000 ppb	97.015 %	103.274 %	0.858 ppb	36.759 ppb	104.761 %	106.811 %	108.374 %
Concentration RSD	995.8 %	332.2 %	2.4 %	4.3 %	5.3 %	2.7 %	2.8 %	4.1 %	1.6 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	108.716 %	0.029 ppb	0.009 ppb	104.322 %	105.715 %
Concentration per Run 1	102.493 %	0.030 ppb	0.010 ppb	105.544 %	101.519 %
Concentration per Run 2	110.344 %	0.026 ppb	0.009 ppb	104.185 %	107.625 %
Concentration per Run 3	113.310 %	0.030 ppb	0.009 ppb	103.237 %	108.002 %
Concentration RSD	5.1 %	7.9 %	10.8 %	1.1 %	3.4 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	130	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2430217-13 6020SL	Rack	2		
Analysis started at:	6/10/2024 7:38:32 PM	Vial	29		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	86.711 %	90.883 %	0.019 ppb	186.246 ppb	10,228.297 ppb	9,378.561 ppb	1.746 ppb	21,419.853 ppb	69,311.752 ppb
Concentration per Run 1	86.483 %	94.250 %	0.020 ppb	187.811 ppb	10,341.917 ppb	9,496.987 ppb	0.727 ppb	22,593.184 ppb	73,698.413 ppb
Concentration per Run 2	87.392 %	94.039 %	0.020 ppb	186.512 ppb	9,869.450 ppb	9,022.471 ppb	2.573 ppb	20,600.606 ppb	67,637.247 ppb
Concentration per Run 3	86.257 %	84.362 %	0.018 ppb	184.416 ppb	10,473.525 ppb	9,616.223 ppb	1.939 ppb	21,065.770 ppb	66,599.596 ppb
Concentration RSD	0.7 %	6.2 %	5.9 %	0.9 %	3.1 %	3.3 %	53.7 %	4.9 %	5.5 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	101.719 %	99.405 %	0.471 ppb	0.423 ppb	2,135.229 ppb	30,632.332 ppb	5.677 ppb	2.905 ppb	0.041 ppb
Concentration per Run 1	95.698 %	94.510 %	0.491 ppb	0.455 ppb	2,295.431 ppb	32,962.275 ppb	6.166 ppb	3.338 ppb	0.059 ppb
Concentration per Run 2	94.987 %	100.530 %	0.476 ppb	0.425 ppb	2,062.884 ppb	30,136.860 ppb	5.504 ppb	2.640 ppb	0.031 ppb
Concentration per Run 3	114.471 %	103.175 %	0.447 ppb	0.390 ppb	2,047.371 ppb	28,797.862 ppb	5.360 ppb	2.739 ppb	0.033 ppb
Concentration RSD	10.9 %	4.5 %	4.7 %	7.6 %	6.5 %	6.9 %	7.6 %	13.0 %	38.8 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.945 ppb	105.872 %	97.429 %	12.821 ppb	0.190 ppb	208.170 ppb	1.067 ppb	96.096 %	94.215 %
Concentration per Run 1	1.057 ppb	104.528 %	92.024 %	13.809 ppb	0.205 ppb	218.793 ppb	1.136 ppb	96.342 %	89.389 %
Concentration per Run 2	0.872 ppb	106.594 %	100.986 %	11.961 ppb	0.245 ppb	203.036 ppb	0.987 ppb	95.170 %	95.595 %
Concentration per Run 3	0.906 ppb	106.493 %	99.278 %	12.694 ppb	0.120 ppb	202.681 ppb	1.079 ppb	96.776 %	97.662 %
Concentration RSD	10.5 %	1.1 %	4.9 %	7.3 %	33.6 %	4.4 %	7.0 %	0.9 %	4.6 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.001 ppb	99.216 %	97.536 %	0.292 ppb	79.042 ppb	103.532 %	102.301 %	104.412 %
Concentration per Run 1	0.000 ppb	0.000 ppb	100.824 %	94.424 %	0.251 ppb	77.709 ppb	103.534 %	99.209 %	104.526 %
Concentration per Run 2	0.000 ppb	0.002 ppb	99.133 %	98.984 %	0.302 ppb	79.849 ppb	105.039 %	102.425 %	103.474 %
Concentration per Run 3	0.000 ppb	0.001 ppb	97.690 %	99.199 %	0.325 ppb	79.568 ppb	102.023 %	105.269 %	105.237 %
Concentration RSD	51.3 %	147.1 %	1.6 %	2.8 %	13.0 %	1.5 %	1.5 %	3.0 %	0.8 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	105.693 %	0.024 ppb	0.006 ppb	99.072 %	101.346 %
Concentration per Run 1	101.532 %	0.025 ppb	0.005 ppb	98.152 %	95.259 %
Concentration per Run 2	105.591 %	0.025 ppb	0.006 ppb	99.542 %	101.863 %
Concentration per Run 3	109.957 %	0.023 ppb	0.006 ppb	99.522 %	106.917 %
Concentration RSD	4.0 %	3.8 %	11.0 %	0.8 %	5.8 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	131	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2430217-15 6020SL	Rack	2		
Analysis started at:	6/10/2024 7:43:14 PM	Vial	30		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	86.412 %	81.837 %	0.018 ppb	169.556 ppb	14,441.260 ppb	10,696.250 ppb	15.241 ppb	12,563.566 ppb	93,442.775 ppb
Concentration per Run 1	86.091 %	79.944 %	0.022 ppb	170.022 ppb	14,834.429 ppb	11,116.611 ppb	13.596 ppb	12,779.754 ppb	97,292.065 ppb
Concentration per Run 2	86.674 %	83.099 %	0.017 ppb	171.748 ppb	14,273.269 ppb	10,550.480 ppb	18.905 ppb	12,452.944 ppb	91,561.896 ppb
Concentration per Run 3	86.472 %	82.468 %	0.017 ppb	166.897 ppb	14,216.083 ppb	10,421.657 ppb	13.221 ppb	12,458.001 ppb	91,474.363 ppb
Concentration RSD	0.3 %	2.0 %	14.7 %	1.5 %	2.4 %	3.5 %	20.9 %	1.5 %	3.6 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	102.076 %	99.594 %	0.615 ppb	0.888 ppb	1,854.835 ppb	58,856.136 ppb	7.442 ppb	2.772 ppb	0.053 ppb
Concentration per Run 1	95.477 %	99.410 %	0.619 ppb	0.912 ppb	1,904.404 ppb	60,897.433 ppb	7.658 ppb	2.898 ppb	0.072 ppb
Concentration per Run 2	94.466 %	98.226 %	0.596 ppb	0.894 ppb	1,852.400 ppb	58,172.827 ppb	7.262 ppb	2.759 ppb	0.038 ppb
Concentration per Run 3	116.284 %	101.147 %	0.630 ppb	0.858 ppb	1,807.701 ppb	57,498.149 ppb	7.406 ppb	2.658 ppb	0.048 ppb
Concentration RSD	12.1 %	1.5 %	2.8 %	3.1 %	2.6 %	3.1 %	2.7 %	4.3 %	33.3 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	1.516 ppb	107.040 %	97.724 %	22.449 ppb	0.109 ppb	312.949 ppb	1.048 ppb	94.000 %	93.820 %
Concentration per Run 1	1.588 ppb	105.308 %	94.282 %	23.441 ppb	0.154 ppb	323.983 ppb	1.150 ppb	98.122 %	90.651 %
Concentration per Run 2	1.469 ppb	108.705 %	100.509 %	22.063 ppb	0.151 ppb	300.371 ppb	0.924 ppb	92.079 %	97.005 %
Concentration per Run 3	1.491 ppb	107.107 %	98.382 %	21.842 ppb	0.021 ppb	314.492 ppb	1.069 ppb	91.798 %	93.803 %
Concentration RSD	4.2 %	1.6 %	3.2 %	3.9 %	69.9 %	3.8 %	10.9 %	3.8 %	3.4 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	-0.001 ppb	0.001 ppb	100.034 %	100.205 %	0.202 ppb	113.442 ppb	104.021 %	102.525 %	103.665 %
Concentration per Run 1	-0.002 ppb	0.001 ppb	98.458 %	97.609 %	0.192 ppb	112.340 ppb	104.925 %	97.870 %	102.574 %
Concentration per Run 2	0.000 ppb	0.001 ppb	100.454 %	100.450 %	0.204 ppb	113.173 ppb	103.071 %	103.918 %	103.538 %
Concentration per Run 3	-0.001 ppb	0.003 ppb	101.188 %	102.555 %	0.209 ppb	114.813 ppb	104.066 %	105.786 %	104.884 %
Concentration RSD	64.4 %	83.9 %	1.4 %	2.5 %	4.1 %	1.1 %	0.9 %	4.0 %	1.1 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	104.864 %	0.065 ppb	0.020 ppb	101.259 %	101.949 %
Concentration per Run 1	100.299 %	0.067 ppb	0.033 ppb	101.268 %	98.814 %
Concentration per Run 2	105.943 %	0.066 ppb	0.015 ppb	100.621 %	103.256 %
Concentration per Run 3	108.350 %	0.063 ppb	0.012 ppb	101.888 %	103.776 %
Concentration RSD	3.9 %	3.2 %	58.0 %	0.6 %	2.7 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	132	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2430217-16 6020SL	Rack	2		
Analysis started at:	6/10/2024 7:47:57 PM	Vial	31		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	85.485 %	84.782 %	0.014 ppb	409.358 ppb	55,563.709 ppb	33,113.491 ppb	0.875 ppb	44,539.927 ppb	71,312.067 ppb
Concentration per Run 1	85.878 %	81.837 %	0.013 ppb	407.245 ppb	57,966.679 ppb	35,133.053 ppb	0.118 ppb	45,843.955 ppb	72,650.571 ppb
Concentration per Run 2	85.603 %	87.517 %	0.012 ppb	408.666 ppb	54,345.190 ppb	31,892.027 ppb	2.068 ppb	44,131.920 ppb	70,815.908 ppb
Concentration per Run 3	84.975 %	84.993 %	0.016 ppb	412.162 ppb	54,379.259 ppb	32,315.392 ppb	0.440 ppb	43,643.906 ppb	70,469.723 ppb
Concentration RSD	0.5 %	3.4 %	15.5 %	0.6 %	3.7 %	5.3 %	119.4 %	2.6 %	1.6 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	93.627 %	95.213 %	0.230 ppb	1.297 ppb	536.583 ppb	1,776.396 ppb	12.985 ppb	22.462 ppb	0.507 ppb
Concentration per Run 1	94.074 %	93.471 %	0.294 ppb	1.330 ppb	550.857 ppb	1,898.633 ppb	13.412 ppb	23.542 ppb	0.536 ppb
Concentration per Run 2	93.811 %	95.938 %	0.184 ppb	1.307 ppb	525.587 ppb	1,739.546 ppb	12.584 ppb	22.748 ppb	0.548 ppb
Concentration per Run 3	92.994 %	96.230 %	0.210 ppb	1.254 ppb	533.305 ppb	1,691.010 ppb	12.958 ppb	21.097 ppb	0.436 ppb
Concentration RSD	0.6 %	1.6 %	25.0 %	3.0 %	2.4 %	6.1 %	3.2 %	5.6 %	12.1 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.831 ppb	105.425 %	95.535 %	1.630 ppb	0.110 ppb	395.860 ppb	0.719 ppb	93.605 %	92.666 %
Concentration per Run 1	0.837 ppb	103.324 %	92.345 %	1.788 ppb	0.223 ppb	410.573 ppb	0.800 ppb	95.022 %	88.648 %
Concentration per Run 2	0.841 ppb	106.962 %	97.461 %	1.626 ppb	0.049 ppb	386.389 ppb	0.694 ppb	93.905 %	93.975 %
Concentration per Run 3	0.814 ppb	105.989 %	96.799 %	1.475 ppb	0.056 ppb	390.619 ppb	0.663 ppb	91.889 %	95.374 %
Concentration RSD	1.8 %	1.8 %	2.9 %	9.6 %	89.9 %	3.3 %	10.0 %	1.7 %	3.8 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.001 ppb	0.007 ppb	97.762 %	94.467 %	0.189 ppb	653.632 ppb	103.137 %	100.647 %	104.840 %
Concentration per Run 1	0.001 ppb	0.008 ppb	97.836 %	91.474 %	0.160 ppb	640.911 ppb	103.827 %	95.838 %	103.016 %
Concentration per Run 2	0.001 ppb	0.009 ppb	99.150 %	97.146 %	0.182 ppb	669.390 ppb	101.821 %	100.939 %	106.149 %
Concentration per Run 3	0.001 ppb	0.005 ppb	96.300 %	94.783 %	0.223 ppb	650.594 ppb	103.763 %	105.164 %	105.355 %
Concentration RSD	20.1 %	23.9 %	1.5 %	3.0 %	17.0 %	2.2 %	1.1 %	4.6 %	1.6 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	105.662 %	0.027 ppb	0.061 ppb	98.478 %	98.721 %
Concentration per Run 1	102.186 %	0.027 ppb	0.060 ppb	98.933 %	95.338 %
Concentration per Run 2	104.665 %	0.026 ppb	0.061 ppb	99.020 %	97.581 %
Concentration per Run 3	110.135 %	0.028 ppb	0.062 ppb	97.480 %	103.243 %
Concentration RSD	3.8 %	4.0 %	1.4 %	0.9 %	4.1 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	133	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2430217-17 6020SL	Rack	2		
Analysis started at:	6/10/2024 7:52:39 PM	Vial	32		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	88.346 %	88.710 %	0.013 ppb	131.419 ppb	7,479.771 ppb	6,685.175 ppb	0.637 ppb	6,081.836 ppb	75,756.535 ppb
Concentration per Run 1	88.171 %	90.673 %	0.014 ppb	134.878 ppb	7,545.871 ppb	6,745.813 ppb	-0.469 ppb	6,146.883 ppb	77,911.332 ppb
Concentration per Run 2	88.472 %	81.627 %	0.012 ppb	130.519 ppb	7,677.427 ppb	6,883.113 ppb	1.728 ppb	6,112.400 ppb	74,424.124 ppb
Concentration per Run 3	88.394 %	93.829 %	0.013 ppb	128.861 ppb	7,216.016 ppb	6,426.599 ppb	0.651 ppb	5,986.227 ppb	74,934.150 ppb
Concentration RSD	0.2 %	7.1 %	8.7 %	2.4 %	3.2 %	3.5 %	172.6 %	1.4 %	2.5 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	104.539 %	97.598 %	0.476 ppb	0.610 ppb	359.871 ppb	5,967.076 ppb	1.774 ppb	1.180 ppb	0.995 ppb
Concentration per Run 1	93.682 %	96.019 %	0.571 ppb	0.624 ppb	377.105 ppb	6,330.697 ppb	1.866 ppb	1.172 ppb	1.000 ppb
Concentration per Run 2	109.211 %	98.193 %	0.410 ppb	0.622 ppb	348.619 ppb	5,712.351 ppb	1.740 ppb	1.058 ppb	0.973 ppb
Concentration per Run 3	110.722 %	98.583 %	0.446 ppb	0.583 ppb	353.890 ppb	5,858.179 ppb	1.715 ppb	1.310 ppb	1.012 ppb
Concentration RSD	9.0 %	1.4 %	17.8 %	3.8 %	4.2 %	5.4 %	4.6 %	10.7 %	2.0 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.717 ppb	105.701 %	98.426 %	2.964 ppb	0.133 ppb	238.166 ppb	0.342 ppb	97.870 %	96.314 %
Concentration per Run 1	0.765 ppb	104.524 %	92.053 %	3.233 ppb	0.266 ppb	251.457 ppb	0.356 ppb	97.037 %	94.776 %
Concentration per Run 2	0.720 ppb	106.031 %	101.576 %	2.833 ppb	0.044 ppb	230.786 ppb	0.347 ppb	97.684 %	96.214 %
Concentration per Run 3	0.666 ppb	106.548 %	101.648 %	2.827 ppb	0.089 ppb	232.254 ppb	0.322 ppb	98.889 %	97.952 %
Concentration RSD	7.0 %	1.0 %	5.6 %	7.9 %	88.6 %	4.8 %	5.1 %	1.0 %	1.7 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.018 ppb	101.499 %	99.472 %	0.162 ppb	16.177 ppb	104.917 %	105.512 %	103.914 %
Concentration per Run 1	0.000 ppb	0.016 ppb	100.675 %	93.997 %	0.152 ppb	15.785 ppb	106.101 %	100.909 %	105.944 %
Concentration per Run 2	-0.001 ppb	0.022 ppb	102.861 %	101.896 %	0.172 ppb	16.404 ppb	104.662 %	107.445 %	102.595 %
Concentration per Run 3	0.000 ppb	0.017 ppb	100.961 %	102.524 %	0.164 ppb	16.342 ppb	103.987 %	108.181 %	103.203 %
Concentration RSD	321.9 %	19.5 %	1.2 %	4.8 %	6.3 %	2.1 %	1.0 %	3.8 %	1.7 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	109.689 %	0.018 ppb	0.057 ppb	106.743 %	105.922 %
Concentration per Run 1	106.103 %	0.018 ppb	0.057 ppb	107.023 %	103.163 %
Concentration per Run 2	112.214 %	0.018 ppb	0.057 ppb	106.950 %	103.754 %
Concentration per Run 3	110.749 %	0.017 ppb	0.056 ppb	106.257 %	110.849 %
Concentration RSD	2.9 %	2.9 %	1.0 %	0.4 %	4.0 %

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Analysis index:	134	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430210-03 6020SL	Rack	2		
Analysis started at:	6/10/2024 7:57:21 PM	Vial	35		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	85.767 %	83.099 %	0.020 ppb	151.976 ppb	48,424.146 ppb	31,893.798 ppb	407.763 ppb	18,918.190 ppb	89,041.040 ppb
Concentration per Run 1	85.507 %	80.785 %	0.017 ppb	150.776 ppb	50,290.289 ppb	32,791.299 ppb	422.972 ppb	19,622.003 ppb	93,438.294 ppb
Concentration per Run 2	85.977 %	86.045 %	0.022 ppb	150.831 ppb	47,208.756 ppb	30,878.646 ppb	387.072 ppb	18,545.269 ppb	88,343.682 ppb
Concentration per Run 3	85.816 %	82.468 %	0.021 ppb	154.320 ppb	47,773.394 ppb	32,011.449 ppb	413.245 ppb	18,587.299 ppb	85,341.142 ppb
Concentration RSD	0.3 %	3.2 %	13.5 %	1.3 %	3.4 %	3.0 %	4.6 %	3.2 %	4.6 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	106.035 %	97.111 %	1.332 ppb	1.383 ppb	84.170 ppb	662.239 ppb	1.544 ppb	3.501 ppb	2.843 ppb
Concentration per Run 1	113.304 %	94.997 %	1.370 ppb	1.410 ppb	87.645 ppb	704.847 ppb	1.659 ppb	3.647 ppb	3.050 ppb
Concentration per Run 2	110.580 %	97.577 %	1.273 ppb	1.389 ppb	82.243 ppb	661.663 ppb	1.515 ppb	3.476 ppb	2.672 ppb
Concentration per Run 3	94.221 %	98.761 %	1.352 ppb	1.348 ppb	82.621 ppb	620.207 ppb	1.458 ppb	3.380 ppb	2.806 ppb
Concentration RSD	9.7 %	2.0 %	3.9 %	2.3 %	3.6 %	6.4 %	6.7 %	3.9 %	6.7 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	4.642 ppb	106.298 %	96.709 %	0.116 ppb	0.306 ppb	383.098 ppb	0.208 ppb	95.310 %	92.165 %
Concentration per Run 1	4.947 ppb	105.844 %	92.023 %	0.110 ppb	0.275 ppb	401.807 ppb	0.256 ppb	92.843 %	88.341 %
Concentration per Run 2	4.569 ppb	107.584 %	98.908 %	0.087 ppb	0.357 ppb	376.227 ppb	0.180 ppb	96.428 %	93.078 %
Concentration per Run 3	4.409 ppb	105.466 %	99.195 %	0.150 ppb	0.284 ppb	371.261 ppb	0.189 ppb	96.659 %	95.074 %
Concentration RSD	6.0 %	1.1 %	4.2 %	27.6 %	14.7 %	4.3 %	19.9 %	2.2 %	3.8 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.009 ppb	0.030 ppb	98.078 %	96.860 %	0.170 ppb	93.066 ppb	107.079 %	102.803 %	105.653 %
Concentration per Run 1	0.012 ppb	0.028 ppb	99.309 %	93.060 %	0.168 ppb	91.096 ppb	108.857 %	97.309 %	107.888 %
Concentration per Run 2	0.006 ppb	0.032 ppb	98.114 %	100.066 %	0.187 ppb	93.242 ppb	106.504 %	103.896 %	103.981 %
Concentration per Run 3	0.008 ppb	0.030 ppb	96.810 %	97.455 %	0.156 ppb	94.861 ppb	105.877 %	107.206 %	105.090 %
Concentration RSD	36.2 %	6.2 %	1.3 %	3.7 %	9.3 %	2.0 %	1.5 %	4.9 %	1.9 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.342 %	0.035 ppb	0.237 ppb	98.787 %	100.553 %
Concentration per Run 1	101.239 %	0.031 ppb	0.228 ppb	99.790 %	97.736 %
Concentration per Run 2	109.795 %	0.037 ppb	0.238 ppb	99.062 %	101.699 %
Concentration per Run 3	110.992 %	0.036 ppb	0.246 ppb	97.510 %	102.225 %
Concentration RSD	5.0 %	9.5 %	3.6 %	1.2 %	2.4 %

Alpha ICPMSRQ Data with SRD

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Analysis index:	135	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1930656-3d10 6020SL	Rack	2		
Analysis started at:	6/10/2024 8:02:05 PM	Vial	36		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	90.371 %	85.203 %	5.213 ppb	120.643 ppb	6,897.875 ppb	4,497.786 ppb	261.738 ppb	3,085.855 ppb	10,367.091 ppb
Concentration per Run 1	91.210 %	78.681 %	5.211 ppb	120.996 ppb	7,309.701 ppb	4,767.510 ppb	284.692 ppb	3,148.448 ppb	10,411.805 ppb
Concentration per Run 2	89.733 %	88.359 %	5.256 ppb	120.584 ppb	6,616.089 ppb	4,344.850 ppb	234.211 ppb	3,021.611 ppb	10,279.400 ppb
Concentration per Run 3	90.169 %	88.569 %	5.172 ppb	120.349 ppb	6,767.834 ppb	4,380.998 ppb	266.312 ppb	3,087.505 ppb	10,410.066 ppb
Concentration RSD	0.8 %	6.6 %	0.8 %	0.3 %	5.3 %	5.2 %	9.8 %	2.1 %	0.7 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	107.416 %	97.409 %	54.483 ppb	22.319 ppb	62.531 ppb	167.627 ppb	53.387 ppb	55.172 ppb	26.149 ppb
Concentration per Run 1	104.974 %	95.094 %	56.455 ppb	23.043 ppb	64.703 ppb	171.004 ppb	56.672 ppb	56.911 ppb	26.671 ppb
Concentration per Run 2	108.805 %	98.891 %	54.040 ppb	22.156 ppb	61.930 ppb	174.031 ppb	52.732 ppb	55.133 ppb	26.483 ppb
Concentration per Run 3	108.469 %	98.242 %	52.954 ppb	21.759 ppb	60.959 ppb	157.845 ppb	50.757 ppb	53.472 ppb	25.292 ppb
Concentration RSD	2.0 %	2.1 %	3.3 %	2.9 %	3.1 %	5.1 %	5.6 %	3.1 %	2.9 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	51.503 ppb	106.756 %	98.789 %	12.621 ppb	12.127 ppb	142.651 ppb	102.658 ppb	99.853 %	96.419 %
Concentration per Run 1	53.125 ppb	109.027 %	96.014 %	13.100 ppb	12.180 ppb	149.140 ppb	109.074 ppb	100.501 %	90.504 %
Concentration per Run 2	51.476 ppb	105.169 %	97.092 %	12.801 ppb	12.011 ppb	139.294 ppb	98.682 ppb	99.607 %	98.994 %
Concentration per Run 3	49.909 ppb	106.072 %	103.262 %	11.962 ppb	12.191 ppb	139.520 ppb	100.217 ppb	99.452 %	99.759 %
Concentration RSD	3.1 %	1.9 %	4.0 %	4.7 %	0.8 %	3.9 %	5.5 %	0.6 %	5.3 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	5.234 ppb	5.595 ppb	105.275 %	102.447 %	52.779 ppb	234.753 ppb	109.261 %	105.051 %	109.043 %
Concentration per Run 1	5.609 ppb	5.952 ppb	107.435 %	96.732 %	56.407 ppb	235.049 ppb	108.399 %	96.944 %	108.585 %
Concentration per Run 2	5.023 ppb	5.404 ppb	104.013 %	105.232 %	51.179 ppb	236.584 ppb	111.930 %	107.485 %	110.950 %
Concentration per Run 3	5.069 ppb	5.427 ppb	104.375 %	105.376 %	50.751 ppb	232.627 ppb	107.454 %	110.723 %	107.594 %
Concentration RSD	6.2 %	5.5 %	1.8 %	4.8 %	6.0 %	0.8 %	2.2 %	6.9 %	1.6 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	108.982 %	10.407 ppb	55.846 ppb	106.570 %	106.652 %
Concentration per Run 1	103.323 %	10.419 ppb	55.635 ppb	106.968 %	99.643 %
Concentration per Run 2	111.269 %	10.326 ppb	55.345 ppb	106.283 %	110.492 %
Concentration per Run 3	112.354 %	10.475 ppb	56.559 ppb	106.460 %	109.821 %
Concentration RSD	4.5 %	0.7 %	1.1 %	0.3 %	5.7 %

Alpha ICPMSRQ Data with SRD

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Analysis index:	136	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1930656-4d10 6020SL	Rack	2		
Analysis started at:	6/10/2024 8:06:48 PM	Vial	37		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.913 %	88.780 %	5.219 ppb	120.146 ppb	6,605.336 ppb	4,276.271 ppb	244.023 ppb	3,020.310 ppb	10,161.050 ppb
Concentration per Run 1	89.175 %	96.985 %	5.339 ppb	121.432 ppb	6,331.463 ppb	4,168.407 ppb	237.668 ppb	3,060.805 ppb	10,430.431 ppb
Concentration per Run 2	90.364 %	83.099 %	5.139 ppb	119.783 ppb	6,792.081 ppb	4,326.081 ppb	253.279 ppb	3,024.176 ppb	10,085.979 ppb
Concentration per Run 3	90.200 %	86.255 %	5.178 ppb	119.223 ppb	6,692.465 ppb	4,334.325 ppb	241.122 ppb	2,975.948 ppb	9,966.742 ppb
Concentration RSD	0.7 %	8.2 %	2.0 %	1.0 %	3.7 %	2.2 %	3.4 %	1.4 %	2.4 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	108.748 %	96.322 %	55.389 ppb	22.359 ppb	62.561 ppb	163.722 ppb	53.215 ppb	54.692 ppb	25.537 ppb
Concentration per Run 1	107.123 %	94.607 %	56.483 ppb	23.324 ppb	65.088 ppb	170.458 ppb	55.511 ppb	55.907 ppb	26.861 ppb
Concentration per Run 2	109.971 %	95.402 %	55.384 ppb	22.031 ppb	61.873 ppb	157.889 ppb	53.840 ppb	53.239 ppb	25.234 ppb
Concentration per Run 3	109.149 %	98.956 %	54.299 ppb	21.721 ppb	60.720 ppb	162.819 ppb	50.294 ppb	54.931 ppb	24.515 ppb
Concentration RSD	1.3 %	2.4 %	2.0 %	3.8 %	3.6 %	3.9 %	5.0 %	2.5 %	4.7 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	51.684 ppb	103.619 %	97.362 %	12.523 ppb	13.366 ppb	141.592 ppb	103.151 ppb	99.692 %	95.688 %
Concentration per Run 1	54.793 ppb	102.239 %	92.283 %	13.855 ppb	13.597 ppb	147.817 ppb	109.255 ppb	100.259 %	91.414 %
Concentration per Run 2	50.932 ppb	106.459 %	99.425 %	11.639 ppb	13.154 ppb	138.619 ppb	99.849 ppb	99.147 %	97.343 %
Concentration per Run 3	49.326 ppb	102.158 %	100.378 %	12.075 ppb	13.348 ppb	138.341 ppb	100.349 ppb	99.669 %	98.307 %
Concentration RSD	5.4 %	2.4 %	4.5 %	9.4 %	1.7 %	3.8 %	5.1 %	0.6 %	3.9 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	5.259 ppb	5.584 ppb	104.729 %	103.517 %	52.102 ppb	231.036 ppb	107.926 %	103.870 %	107.553 %
Concentration per Run 1	5.501 ppb	5.925 ppb	105.263 %	98.820 %	55.344 ppb	230.426 ppb	110.372 %	98.819 %	109.613 %
Concentration per Run 2	5.073 ppb	5.390 ppb	104.531 %	106.803 %	49.651 ppb	232.031 ppb	105.787 %	104.890 %	104.509 %
Concentration per Run 3	5.202 ppb	5.436 ppb	104.395 %	104.929 %	51.313 ppb	230.651 ppb	107.619 %	107.901 %	108.536 %
Concentration RSD	4.2 %	5.3 %	0.4 %	4.0 %	5.6 %	0.4 %	2.1 %	4.5 %	2.5 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	109.961 %	9.975 ppb	56.059 ppb	108.636 %	106.585 %
Concentration per Run 1	103.205 %	9.841 ppb	55.615 ppb	109.177 %	100.671 %
Concentration per Run 2	112.083 %	9.984 ppb	56.157 ppb	108.864 %	107.909 %
Concentration per Run 3	114.595 %	10.098 ppb	56.405 ppb	107.869 %	111.174 %
Concentration RSD	5.4 %	1.3 %	0.7 %	0.6 %	5.0 %

Alpha ICPMSRQ Data with SRD

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Analysis index:	137	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	6/10/2024 8:11:31 PM	Vial	9		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	87.642 %	84.923 %	58.601 ppb	60.803 ppb	5,955.703 ppb	5,992.210 ppb	63.912 ppb	5,725.256 ppb	6,355.180 ppb
Concentration per Run 1	87.956 %	77.630 %	58.833 ppb	60.873 ppb	6,494.288 ppb	6,632.072 ppb	76.485 ppb	6,098.274 ppb	6,605.949 ppb
Concentration per Run 2	88.113 %	81.627 %	58.146 ppb	60.990 ppb	5,935.815 ppb	5,923.660 ppb	54.906 ppb	5,563.212 ppb	6,209.130 ppb
Concentration per Run 3	86.857 %	95.512 %	58.824 ppb	60.545 ppb	5,437.006 ppb	5,420.897 ppb	60.346 ppb	5,514.281 ppb	6,250.462 ppb
Recovery Percentage 1			97.668 %	101.338 %	99.262 %	99.870 %	106.520 %	95.421 %	105.920 %
Concentration RSD	0.8 %	11.1 %	0.7 %	0.4 %	8.9 %	10.2 %	17.6 %	5.7 %	3.4 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	106.611 %	99.805 %	61.830 ppb	62.906 ppb	59.806 ppb	5,910.945 ppb	62.190 ppb	62.728 ppb	60.947 ppb
Concentration per Run 1	104.548 %	95.857 %	65.563 ppb	66.717 ppb	63.516 ppb	6,140.578 ppb	64.802 ppb	67.094 ppb	65.506 ppb
Concentration per Run 2	107.177 %	102.283 %	58.201 ppb	60.448 ppb	58.088 ppb	5,845.739 ppb	62.451 ppb	61.093 ppb	58.873 ppb
Concentration per Run 3	108.109 %	101.277 %	61.725 ppb	61.552 ppb	57.813 ppb	5,746.517 ppb	59.318 ppb	59.997 ppb	58.461 ppb
Recovery Percentage 1			103.049 %	104.843 %	99.676 %	98.516 %	103.650 %	104.546 %	101.578 %
Concentration RSD	1.7 %	3.5 %	6.0 %	5.3 %	5.4 %	3.5 %	4.4 %	6.1 %	6.5 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	59.762 ppb	100.945 %	94.180 %	59.341 ppb	59.910 ppb	61.506 ppb	58.074 ppb	99.264 %	94.947 %
Concentration per Run 1	62.456 ppb	101.823 %	90.513 %	62.398 ppb	64.917 ppb	63.969 ppb	61.595 ppb	100.953 %	90.799 %
Concentration per Run 2	58.909 ppb	100.733 %	95.876 %	57.238 ppb	57.849 ppb	60.358 ppb	56.069 ppb	99.532 %	97.412 %
Concentration per Run 3	57.921 ppb	100.278 %	96.152 %	58.389 ppb	56.964 ppb	60.190 ppb	56.558 ppb	97.308 %	96.630 %
Recovery Percentage 1	99.604 %			98.902 %	99.850 %	102.509 %	96.790 %		
Concentration RSD	4.0 %	0.8 %	3.4 %	4.6 %	7.3 %	3.5 %	5.3 %	1.9 %	3.8 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	61.352 ppb	61.082 ppb	101.711 %	98.142 %	57.252 ppb	59.984 ppb	106.682 %	102.043 %	107.342 %
Concentration per Run 1	65.372 ppb	66.106 ppb	103.742 %	92.535 %	61.120 ppb	58.336 ppb	107.855 %	97.251 %	106.000 %
Concentration per Run 2	58.345 ppb	59.085 ppb	99.714 %	101.754 %	54.832 ppb	62.267 ppb	105.157 %	104.002 %	107.691 %
Concentration per Run 3	60.338 ppb	58.055 ppb	101.677 %	100.137 %	55.804 ppb	59.351 ppb	107.034 %	104.876 %	108.335 %
Recovery Percentage 1	102.253 %	101.804 %			95.420 %	99.974 %			
Concentration RSD	5.9 %	7.2 %	2.0 %	5.0 %	5.9 %	3.4 %	1.3 %	4.1 %	1.1 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.769 %	59.570 ppb	60.506 ppb	107.003 %	105.308 %
Concentration per Run 1	101.428 %	60.274 ppb	60.586 ppb	105.743 %	102.923 %
Concentration per Run 2	110.801 %	57.573 ppb	60.234 ppb	108.605 %	105.938 %
Concentration per Run 3	111.078 %	60.862 ppb	60.698 ppb	106.661 %	107.064 %
Recovery Percentage 1		99.283 %	100.844 %		
Concentration RSD	5.1 %	2.9 %	0.4 %	1.4 %	2.0 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	138	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/10/2024 8:16:17 PM	Vial	10		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.718 %	86.536 %	0.021 ppb	0.660 ppb	-7.453 ppb	-0.225 ppb	-1.634 ppb	-16.548 ppb	2.539 ppb
Concentration per Run 1	89.865 %	78.681 %	0.026 ppb	0.671 ppb	-5.088 ppb	-0.190 ppb	-0.718 ppb	-13.566 ppb	-3.350 ppb
Concentration per Run 2	89.739 %	88.149 %	0.020 ppb	0.650 ppb	-7.177 ppb	-0.450 ppb	-1.665 ppb	-18.434 ppb	3.817 ppb
Concentration per Run 3	89.551 %	92.777 %	0.018 ppb	0.660 ppb	-10.092 ppb	-0.036 ppb	-2.520 ppb	-17.644 ppb	7.151 ppb
Recovery Percentage 1			4.254 %	6.600 %	-7.453 %	-0.322 %	-16.344 %	-16.548 %	2.539 %
Concentration RSD	0.2 %	8.3 %	19.0 %	1.6 %	33.7 %	92.9 %	55.2 %	15.8 %	211.3 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	105.498 %	94.429 %	-0.002 ppb	-0.003 ppb	0.087 ppb	3.825 ppb	0.012 ppb	-0.006 ppb	-0.002 ppb
Concentration per Run 1	105.132 %	93.650 %	0.004 ppb	-0.002 ppb	0.102 ppb	3.304 ppb	0.023 ppb	-0.009 ppb	-0.008 ppb
Concentration per Run 2	107.328 %	93.731 %	-0.018 ppb	-0.006 ppb	0.086 ppb	5.138 ppb	0.009 ppb	-0.011 ppb	0.006 ppb
Concentration per Run 3	104.033 %	95.905 %	0.007 ppb	-0.001 ppb	0.073 ppb	3.033 ppb	0.003 ppb	0.001 ppb	-0.005 ppb
Recovery Percentage 1			-0.045 %	-0.277 %	8.703 %	7.650 %	2.316 %	-0.315 %	-0.228 %
Concentration RSD	1.6 %	1.4 %	627.5 %	94.0 %	16.2 %	29.9 %	87.8 %	95.7 %	327.9 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.033 ppb	100.757 %	94.962 %	0.030 ppb	0.061 ppb	0.020 ppb	0.270 ppb	103.591 %	98.619 %
Concentration per Run 1	0.072 ppb	102.124 %	90.509 %	0.028 ppb	0.071 ppb	0.022 ppb	0.234 ppb	105.141 %	93.803 %
Concentration per Run 2	0.010 ppb	101.502 %	97.919 %	0.042 ppb	0.021 ppb	0.022 ppb	0.257 ppb	102.125 %	99.366 %
Concentration per Run 3	0.016 ppb	98.645 %	96.459 %	0.020 ppb	0.092 ppb	0.017 ppb	0.320 ppb	103.507 %	102.688 %
Recovery Percentage 1	0.653 %			6.002 %	1.224 %	4.062 %	13.524 %		
Concentration RSD	104.4 %	1.8 %	4.1 %	37.1 %	59.5 %	14.9 %	16.5 %	1.5 %	4.6 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.005 ppb	0.003 ppb	105.840 %	101.657 %	1.319 ppb	0.018 ppb	108.424 %	102.637 %	107.262 %
Concentration per Run 1	0.007 ppb	0.006 ppb	105.323 %	97.022 %	1.212 ppb	0.023 ppb	107.667 %	99.233 %	106.736 %
Concentration per Run 2	0.004 ppb	0.001 ppb	106.181 %	103.836 %	1.309 ppb	0.011 ppb	109.275 %	104.443 %	106.738 %
Concentration per Run 3	0.003 ppb	0.003 ppb	106.016 %	104.111 %	1.436 ppb	0.019 ppb	108.330 %	104.235 %	108.311 %
Recovery Percentage 1	1.212 %				32.970 %	3.555 %			
Concentration RSD	46.2 %	87.6 %	0.4 %	4.0 %	8.5 %	32.9 %	0.7 %	2.9 %	0.8 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.683 %	0.072 ppb	0.007 ppb	112.050 %	111.912 %
Concentration per Run 1	101.144 %	0.083 ppb	0.007 ppb	111.126 %	107.359 %
Concentration per Run 2	109.500 %	0.072 ppb	0.008 ppb	112.538 %	112.786 %
Concentration per Run 3	112.405 %	0.061 ppb	0.007 ppb	112.486 %	115.592 %
Recovery Percentage 1		7.216 %	0.725 %		
Concentration RSD	5.4 %	15.2 %	8.3 %	0.7 %	3.7 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 139 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: L2430219-04 6020SL Rack 2
Analysis started at: 6/10/2024 8:21:04 PM Vial 40

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	86.797 %	82.398 %	0.016 ppb	8.576 ppb	50,764.242 ppb	13,571.598 ppb	2.260 ppb	1,239.137 ppb	23,974.085 ppb
Concentration per Run 1	87.320 %	81.627 %	0.018 ppb	8.589 ppb	52,532.235 ppb	14,188.819 ppb	3.695 ppb	1,311.940 ppb	25,204.031 ppb
Concentration per Run 2	87.080 %	79.313 %	0.017 ppb	8.355 ppb	50,724.985 ppb	13,722.148 ppb	0.972 ppb	1,223.252 ppb	23,063.087 ppb
Concentration per Run 3	85.990 %	86.255 %	0.011 ppb	8.783 ppb	49,035.506 ppb	12,803.827 ppb	2.114 ppb	1,182.219 ppb	23,655.136 ppb
Concentration RSD	0.8 %	4.3 %	23.2 %	2.5 %	3.4 %	5.2 %	60.5 %	5.4 %	4.6 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	99.664 %	94.320 %	0.130 ppb	1.532 ppb	0.875 ppb	8.864 ppb	0.033 ppb	0.859 ppb	0.168 ppb
Concentration per Run 1	95.144 %	91.216 %	0.179 ppb	1.608 ppb	0.906 ppb	10.076 ppb	0.037 ppb	0.951 ppb	0.170 ppb
Concentration per Run 2	112.070 %	96.295 %	0.094 ppb	1.494 ppb	0.826 ppb	8.017 ppb	0.035 ppb	0.747 ppb	0.146 ppb
Concentration per Run 3	91.777 %	95.451 %	0.116 ppb	1.494 ppb	0.894 ppb	8.499 ppb	0.027 ppb	0.879 ppb	0.188 ppb
Concentration RSD	10.9 %	2.9 %	34.1 %	4.3 %	5.0 %	12.1 %	16.7 %	12.0 %	12.5 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.397 ppb	107.079 %	94.310 %	0.170 ppb	0.264 ppb	108.129 ppb	0.136 ppb	96.022 %	91.721 %
Concentration per Run 1	0.375 ppb	104.856 %	89.691 %	0.121 ppb	0.064 ppb	110.773 ppb	0.142 ppb	95.741 %	89.000 %
Concentration per Run 2	0.423 ppb	107.818 %	94.851 %	0.297 ppb	0.436 ppb	106.267 ppb	0.142 ppb	96.123 %	93.133 %
Concentration per Run 3	0.393 ppb	108.563 %	98.386 %	0.093 ppb	0.293 ppb	107.346 ppb	0.124 ppb	96.203 %	93.029 %
Concentration RSD	6.1 %	1.8 %	4.6 %	64.7 %	70.9 %	2.2 %	7.5 %	0.3 %	2.6 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.001 ppb	0.010 ppb	99.631 %	97.476 %	0.527 ppb	67.166 ppb	107.078 %	103.683 %	109.000 %
Concentration per Run 1	0.000 ppb	0.011 ppb	100.482 %	92.978 %	0.478 ppb	65.741 ppb	108.214 %	98.205 %	108.954 %
Concentration per Run 2	0.001 ppb	0.012 ppb	100.368 %	97.771 %	0.549 ppb	67.592 ppb	105.116 %	107.833 %	107.926 %
Concentration per Run 3	0.001 ppb	0.007 ppb	98.044 %	101.680 %	0.556 ppb	68.163 ppb	107.905 %	105.012 %	110.121 %
Concentration RSD	61.2 %	25.0 %	1.4 %	4.5 %	8.1 %	1.9 %	1.6 %	4.8 %	1.0 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	108.065 %	0.034 ppb	0.010 ppb	104.601 %	103.261 %
Concentration per Run 1	101.869 %	0.034 ppb	0.010 ppb	103.715 %	99.074 %
Concentration per Run 2	108.546 %	0.036 ppb	0.011 ppb	104.682 %	103.881 %
Concentration per Run 3	113.780 %	0.032 ppb	0.010 ppb	105.407 %	106.828 %
Concentration RSD	5.5 %	5.7 %	5.0 %	0.8 %	3.8 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	140	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1930656-7d10 6020SL	Rack	2		
Analysis started at:	6/10/2024 8:25:47 PM	Vial	41		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	90.203 %	87.167 %	5.193 ppb	108.773 ppb	6,880.355 ppb	2,452.561 ppb	223.618 ppb	1,153.935 ppb	3,237.476 ppb
Concentration per Run 1	90.259 %	88.569 %	5.174 ppb	109.892 ppb	6,959.620 ppb	2,459.840 ppb	231.950 ppb	1,195.564 ppb	3,436.361 ppb
Concentration per Run 2	90.107 %	83.099 %	5.212 ppb	109.391 ppb	6,999.513 ppb	2,485.479 ppb	223.638 ppb	1,143.411 ppb	3,106.627 ppb
Concentration per Run 3	90.243 %	89.832 %	5.194 ppb	107.037 ppb	6,681.933 ppb	2,412.364 ppb	215.266 ppb	1,122.829 ppb	3,169.442 ppb
Concentration RSD	0.1 %	4.1 %	0.4 %	1.4 %	2.5 %	1.5 %	3.7 %	3.2 %	5.4 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	96.397 %	97.117 %	54.655 ppb	22.101 ppb	53.407 ppb	115.265 ppb	53.275 ppb	55.367 ppb	26.235 ppb
Concentration per Run 1	91.014 %	96.149 %	57.743 ppb	23.180 ppb	55.594 ppb	119.805 ppb	55.568 ppb	57.773 ppb	27.215 ppb
Concentration per Run 2	89.405 %	97.414 %	52.734 ppb	21.500 ppb	52.157 ppb	114.376 ppb	51.163 ppb	54.203 ppb	25.488 ppb
Concentration per Run 3	108.772 %	97.788 %	53.489 ppb	21.622 ppb	52.470 ppb	111.614 ppb	53.093 ppb	54.123 ppb	26.003 ppb
Concentration RSD	11.1 %	0.9 %	4.9 %	4.2 %	3.6 %	3.6 %	4.1 %	3.8 %	3.4 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	51.791 ppb	103.486 %	98.335 %	12.198 ppb	12.743 ppb	115.074 ppb	101.699 ppb	100.428 %	96.627 %
Concentration per Run 1	53.375 ppb	102.218 %	94.172 %	12.785 ppb	12.955 ppb	121.765 ppb	106.993 ppb	99.209 %	93.058 %
Concentration per Run 2	50.809 ppb	104.935 %	100.850 %	11.804 ppb	12.842 ppb	110.358 ppb	97.044 ppb	102.684 %	98.600 %
Concentration per Run 3	51.189 ppb	103.305 %	99.981 %	12.006 ppb	12.432 ppb	113.099 ppb	101.059 ppb	99.390 %	98.223 %
Concentration RSD	2.7 %	1.3 %	3.7 %	4.2 %	2.2 %	5.2 %	4.9 %	1.9 %	3.2 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	5.203 ppb	5.624 ppb	107.151 %	104.175 %	50.091 ppb	228.236 ppb	108.118 %	104.320 %	108.822 %
Concentration per Run 1	5.536 ppb	6.011 ppb	109.668 %	98.066 %	53.365 ppb	223.428 ppb	108.519 %	100.288 %	108.342 %
Concentration per Run 2	4.947 ppb	5.426 ppb	107.654 %	108.380 %	48.443 ppb	228.388 ppb	105.786 %	105.849 %	109.141 %
Concentration per Run 3	5.126 ppb	5.434 ppb	104.133 %	106.078 %	48.464 ppb	232.891 ppb	110.049 %	106.822 %	108.984 %
Concentration RSD	5.8 %	6.0 %	2.6 %	5.2 %	5.7 %	2.1 %	2.0 %	3.4 %	0.4 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	109.501 %	10.305 ppb	56.795 ppb	107.871 %	107.317 %
Concentration per Run 1	102.051 %	10.140 ppb	55.691 ppb	108.091 %	103.737 %
Concentration per Run 2	111.557 %	10.354 ppb	57.116 ppb	107.726 %	108.580 %
Concentration per Run 3	114.896 %	10.420 ppb	57.578 ppb	107.797 %	109.633 %
Concentration RSD	6.1 %	1.4 %	1.7 %	0.2 %	2.9 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	141	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1930656-8d10 6020SL	Rack	2		
Analysis started at:	6/10/2024 8:30:29 PM	Vial	42		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.703 %	84.081 %	5.168 ppb	106.175 ppb	7,076.471 ppb	2,488.759 ppb	227.157 ppb	1,179.155 ppb	3,448.111 ppb
Concentration per Run 1	89.586 %	75.315 %	5.186 ppb	106.037 ppb	7,701.041 ppb	2,677.388 ppb	248.277 ppb	1,229.442 ppb	3,703.936 ppb
Concentration per Run 2	89.835 %	87.938 %	5.182 ppb	105.777 ppb	6,684.134 ppb	2,394.366 ppb	212.919 ppb	1,149.298 ppb	3,222.638 ppb
Concentration per Run 3	89.689 %	88.990 %	5.135 ppb	106.710 ppb	6,844.238 ppb	2,394.525 ppb	220.274 ppb	1,158.726 ppb	3,417.760 ppb
Concentration RSD	0.1 %	9.1 %	0.6 %	0.5 %	7.7 %	6.6 %	8.2 %	3.7 %	7.0 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	108.342 %	96.830 %	54.769 ppb	22.495 ppb	53.669 ppb	108.660 ppb	54.123 ppb	54.204 ppb	26.542 ppb
Concentration per Run 1	110.494 %	96.327 %	57.304 ppb	23.287 ppb	55.373 ppb	114.239 ppb	56.106 ppb	56.544 ppb	28.107 ppb
Concentration per Run 2	105.720 %	97.025 %	54.865 ppb	22.134 ppb	53.328 ppb	105.584 ppb	53.930 ppb	53.712 ppb	26.044 ppb
Concentration per Run 3	108.814 %	97.139 %	52.137 ppb	22.062 ppb	52.305 ppb	106.156 ppb	52.332 ppb	52.357 ppb	25.475 ppb
Concentration RSD	2.2 %	0.5 %	4.7 %	3.1 %	2.9 %	4.5 %	3.5 %	3.9 %	5.2 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	52.216 ppb	105.630 %	95.615 %	12.622 ppb	12.285 ppb	116.510 ppb	103.546 ppb	102.142 %	96.658 %
Concentration per Run 1	54.828 ppb	105.506 %	91.275 %	13.301 ppb	12.575 ppb	122.977 ppb	111.664 ppb	102.595 %	92.471 %
Concentration per Run 2	51.582 ppb	105.946 %	96.308 %	12.274 ppb	12.444 ppb	113.391 ppb	99.218 ppb	102.773 %	98.026 %
Concentration per Run 3	50.239 ppb	105.437 %	99.260 %	12.291 ppb	11.838 ppb	113.163 ppb	99.755 ppb	101.058 %	99.478 %
Concentration RSD	4.5 %	0.3 %	4.2 %	4.7 %	3.2 %	4.8 %	6.8 %	0.9 %	3.8 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	5.121 ppb	5.741 ppb	106.793 %	102.730 %	51.313 ppb	233.823 ppb	110.150 %	105.193 %	111.676 %
Concentration per Run 1	5.473 ppb	6.204 ppb	107.953 %	99.037 %	53.447 ppb	236.902 ppb	107.041 %	100.423 %	111.161 %
Concentration per Run 2	4.943 ppb	5.525 ppb	106.657 %	104.158 %	50.049 ppb	230.408 ppb	111.689 %	107.464 %	111.939 %
Concentration per Run 3	4.946 ppb	5.492 ppb	105.768 %	104.995 %	50.442 ppb	234.157 ppb	111.720 %	107.693 %	111.928 %
Concentration RSD	6.0 %	7.0 %	1.0 %	3.1 %	3.6 %	1.4 %	2.4 %	3.9 %	0.4 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	108.762 %	10.335 ppb	56.614 ppb	110.035 %	107.092 %
Concentration per Run 1	104.504 %	10.125 ppb	56.834 ppb	109.556 %	101.926 %
Concentration per Run 2	112.204 %	10.517 ppb	57.541 ppb	109.677 %	109.311 %
Concentration per Run 3	109.576 %	10.362 ppb	55.466 ppb	110.871 %	110.041 %
Concentration RSD	3.6 %	1.9 %	1.9 %	0.7 %	4.2 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	142	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1930656-9d10 6020SL	Rack	2		
Analysis started at:	6/10/2024 8:35:12 PM	Vial	43		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	88.705 %	88.780 %	49.257 ppb	51.452 ppb	10,332.083 ppb	6,120.257 ppb	47.693 ppb	4,743.386 ppb	7,677.387 ppb
Concentration per Run 1	88.862 %	86.676 %	49.292 ppb	50.666 ppb	10,862.419 ppb	6,363.740 ppb	51.984 ppb	4,982.160 ppb	7,969.731 ppb
Concentration per Run 2	88.947 %	91.515 %	49.696 ppb	52.157 ppb	9,844.102 ppb	5,961.584 ppb	41.839 ppb	4,590.376 ppb	7,529.912 ppb
Concentration per Run 3	88.306 %	88.149 %	48.781 ppb	51.533 ppb	10,289.729 ppb	6,035.445 ppb	49.256 ppb	4,657.622 ppb	7,532.518 ppb
Concentration RSD	0.4 %	2.8 %	0.9 %	1.5 %	4.9 %	3.5 %	11.0 %	4.4 %	3.3 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	105.282 %	98.967 %	52.202 ppb	52.184 ppb	49.463 ppb	4,982.645 ppb	50.993 ppb	52.369 ppb	48.201 ppb
Concentration per Run 1	111.379 %	95.435 %	54.972 ppb	55.304 ppb	51.707 ppb	5,332.222 ppb	54.146 ppb	56.414 ppb	50.826 ppb
Concentration per Run 2	92.221 %	101.147 %	51.393 ppb	50.682 ppb	47.809 ppb	4,776.121 ppb	48.926 ppb	49.635 ppb	45.563 ppb
Concentration per Run 3	112.246 %	100.319 %	50.241 ppb	50.565 ppb	48.873 ppb	4,839.593 ppb	49.906 ppb	51.059 ppb	48.214 ppb
Concentration RSD	10.8 %	3.1 %	4.7 %	5.2 %	4.1 %	6.1 %	5.4 %	6.8 %	5.5 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	49.403 ppb	103.615 %	97.032 %	47.928 ppb	48.930 ppb	63.002 ppb	50.543 ppb	101.904 %	95.802 %
Concentration per Run 1	51.562 ppb	103.819 %	93.655 %	49.381 ppb	49.882 ppb	64.757 ppb	53.448 ppb	102.800 %	92.394 %
Concentration per Run 2	47.528 ppb	104.398 %	100.714 %	46.038 ppb	47.911 ppb	62.070 ppb	49.878 ppb	101.364 %	96.614 %
Concentration per Run 3	49.119 ppb	102.629 %	96.727 %	48.367 ppb	48.996 ppb	62.178 ppb	48.302 ppb	101.546 %	98.396 %
Concentration RSD	4.1 %	0.9 %	3.6 %	3.6 %	2.0 %	2.4 %	5.2 %	0.8 %	3.2 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	1.848 ppb	49.836 ppb	103.703 %	101.225 %	51.295 ppb	55.105 ppb	109.519 %	105.044 %	110.833 %
Concentration per Run 1	1.947 ppb	52.494 ppb	103.712 %	94.087 %	55.548 ppb	55.184 ppb	111.084 %	99.528 %	113.274 %
Concentration per Run 2	1.845 ppb	48.554 ppb	102.386 %	104.250 %	49.023 ppb	56.039 ppb	110.029 %	106.661 %	110.337 %
Concentration per Run 3	1.751 ppb	48.460 ppb	105.013 %	105.338 %	49.313 ppb	54.094 ppb	107.444 %	108.942 %	108.888 %
Concentration RSD	5.3 %	4.6 %	1.3 %	6.1 %	7.2 %	1.8 %	1.7 %	4.7 %	2.0 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	108.786 %	47.023 ppb	48.194 ppb	110.284 %	107.797 %
Concentration per Run 1	102.489 %	46.368 ppb	44.505 ppb	110.510 %	101.546 %
Concentration per Run 2	111.747 %	46.979 ppb	49.800 ppb	110.285 %	109.115 %
Concentration per Run 3	112.124 %	47.721 ppb	50.277 ppb	110.059 %	112.730 %
Concentration RSD	5.0 %	1.4 %	6.6 %	0.2 %	5.3 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	143	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1930656-10d5 6020SL	Rack	2		
Analysis started at:	6/10/2024 8:39:55 PM	Vial	44		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	88.807 %	83.240 %	0.021 ppb	2.090 ppb	11,813.079 ppb	2,816.808 ppb	-0.235 ppb	233.347 ppb	4,996.579 ppb
Concentration per Run 1	89.215 %	80.154 %	0.018 ppb	2.148 ppb	12,386.392 ppb	2,934.373 ppb	-1.606 ppb	242.369 ppb	5,318.458 ppb
Concentration per Run 2	88.745 %	85.414 %	0.026 ppb	2.098 ppb	11,522.213 ppb	2,777.409 ppb	0.454 ppb	220.442 ppb	4,762.417 ppb
Concentration per Run 3	88.462 %	84.151 %	0.020 ppb	2.024 ppb	11,530.632 ppb	2,738.641 ppb	0.447 ppb	237.230 ppb	4,908.861 ppb
Concentration RSD	0.4 %	3.3 %	18.2 %	3.0 %	4.2 %	3.7 %	505.3 %	4.9 %	5.8 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	98.032 %	94.937 %	0.045 ppb	0.296 ppb	0.243 ppb	2.925 ppb	0.010 ppb	0.171 ppb	0.030 ppb
Concentration per Run 1	89.233 %	93.033 %	0.023 ppb	0.306 ppb	0.255 ppb	2.856 ppb	0.011 ppb	0.210 ppb	0.030 ppb
Concentration per Run 2	92.316 %	95.175 %	0.059 ppb	0.291 ppb	0.240 ppb	2.490 ppb	0.008 ppb	0.170 ppb	0.033 ppb
Concentration per Run 3	112.548 %	96.603 %	0.053 ppb	0.292 ppb	0.235 ppb	3.430 ppb	0.012 ppb	0.133 ppb	0.029 ppb
Concentration RSD	12.9 %	1.9 %	43.6 %	2.7 %	4.2 %	16.2 %	20.4 %	22.6 %	6.7 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.063 ppb	105.812 %	97.211 %	0.053 ppb	0.160 ppb	22.041 ppb	0.293 ppb	101.069 %	95.761 %
Concentration per Run 1	0.074 ppb	104.920 %	89.536 %	0.055 ppb	0.176 ppb	23.336 ppb	0.254 ppb	101.799 %	90.148 %
Concentration per Run 2	0.048 ppb	107.074 %	99.856 %	0.069 ppb	0.184 ppb	21.628 ppb	0.298 ppb	100.727 %	97.367 %
Concentration per Run 3	0.066 ppb	105.443 %	102.242 %	0.034 ppb	0.119 ppb	21.159 ppb	0.326 ppb	100.681 %	99.768 %
Concentration RSD	21.4 %	1.1 %	6.9 %	33.5 %	22.0 %	5.2 %	12.5 %	0.6 %	5.2 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.005 ppb	105.216 %	101.224 %	0.389 ppb	13.142 ppb	110.916 %	106.103 %	111.844 %
Concentration per Run 1	0.001 ppb	0.003 ppb	106.325 %	96.500 %	0.319 ppb	12.901 ppb	110.465 %	100.098 %	108.383 %
Concentration per Run 2	-0.001 ppb	0.007 ppb	103.717 %	102.810 %	0.416 ppb	13.420 ppb	112.339 %	107.778 %	111.675 %
Concentration per Run 3	-0.001 ppb	0.005 ppb	105.605 %	104.363 %	0.432 ppb	13.105 ppb	109.945 %	110.433 %	115.474 %
Concentration RSD	565.5 %	40.3 %	1.3 %	4.1 %	15.8 %	2.0 %	1.1 %	5.1 %	3.2 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	110.769 %	0.253 ppb	0.008 ppb	110.869 %	109.277 %
Concentration per Run 1	102.405 %	0.274 ppb	0.008 ppb	110.328 %	103.693 %
Concentration per Run 2	114.839 %	0.256 ppb	0.007 ppb	112.537 %	109.179 %
Concentration per Run 3	115.063 %	0.229 ppb	0.008 ppb	109.742 %	114.958 %
Concentration RSD	6.5 %	8.9 %	7.7 %	1.3 %	5.2 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	144	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1930656-5d10 6020SL	Rack	2		
Analysis started at:	6/10/2024 8:44:38 PM	Vial	38		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	87.874 %	83.170 %	49.174 ppb	65.830 ppb	10,413.090 ppb	8,210.626 ppb	91.346 ppb	6,577.990 ppb	13,992.981 ppb
Concentration per Run 1	87.791 %	78.261 %	49.862 ppb	67.466 ppb	11,081.833 ppb	8,592.908 ppb	98.044 ppb	6,816.549 ppb	14,224.706 ppb
Concentration per Run 2	88.147 %	88.359 %	48.383 ppb	64.710 ppb	10,008.485 ppb	7,996.456 ppb	84.292 ppb	6,504.938 ppb	14,184.807 ppb
Concentration per Run 3	87.686 %	82.889 %	49.278 ppb	65.315 ppb	10,148.951 ppb	8,042.513 ppb	91.702 ppb	6,412.482 ppb	13,569.430 ppb
Concentration RSD	0.3 %	6.1 %	1.5 %	2.2 %	5.6 %	4.0 %	7.5 %	3.2 %	2.6 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	101.746 %	98.280 %	51.461 ppb	50.628 ppb	57.793 ppb	5,080.268 ppb	50.705 ppb	51.418 ppb	47.876 ppb
Concentration per Run 1	91.058 %	96.392 %	53.629 ppb	52.530 ppb	60.252 ppb	5,321.902 ppb	52.502 ppb	53.713 ppb	49.304 ppb
Concentration per Run 2	107.482 %	98.826 %	50.659 ppb	49.416 ppb	56.370 ppb	4,861.459 ppb	49.394 ppb	50.936 ppb	46.427 ppb
Concentration per Run 3	106.697 %	99.621 %	50.096 ppb	49.939 ppb	56.758 ppb	5,057.445 ppb	50.220 ppb	49.605 ppb	47.898 ppb
Concentration RSD	9.1 %	1.7 %	3.7 %	3.3 %	3.7 %	4.5 %	3.2 %	4.1 %	3.0 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	50.000 ppb	104.933 %	96.640 %	48.243 ppb	48.809 ppb	89.550 ppb	49.548 ppb	99.753 %	94.718 %
Concentration per Run 1	52.612 ppb	104.646 %	93.041 %	50.877 ppb	51.217 ppb	93.587 ppb	51.477 ppb	102.097 %	89.898 %
Concentration per Run 2	48.554 ppb	105.074 %	99.959 %	46.625 ppb	47.648 ppb	87.563 ppb	48.765 ppb	98.848 %	95.557 %
Concentration per Run 3	48.833 ppb	105.078 %	96.920 %	47.228 ppb	47.562 ppb	87.499 ppb	48.402 ppb	98.313 %	98.699 %
Concentration RSD	4.5 %	0.2 %	3.6 %	4.8 %	4.3 %	3.9 %	3.4 %	2.1 %	4.7 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	1.871 ppb	50.128 ppb	103.212 %	98.246 %	51.746 ppb	58.092 ppb	109.024 %	104.161 %	110.090 %
Concentration per Run 1	2.019 ppb	53.886 ppb	102.461 %	93.615 %	53.971 ppb	57.514 ppb	110.311 %	100.465 %	110.789 %
Concentration per Run 2	1.801 ppb	48.568 ppb	104.770 %	101.078 %	50.273 ppb	57.499 ppb	110.329 %	106.810 %	111.119 %
Concentration per Run 3	1.795 ppb	47.931 ppb	102.403 %	100.046 %	50.995 ppb	59.263 ppb	106.433 %	105.209 %	108.362 %
Concentration RSD	6.8 %	6.5 %	1.3 %	4.1 %	3.8 %	1.7 %	2.1 %	3.2 %	1.4 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	109.616 %	47.819 ppb	45.171 ppb	107.417 %	105.352 %
Concentration per Run 1	104.686 %	48.701 ppb	45.082 ppb	104.987 %	101.472 %
Concentration per Run 2	111.403 %	48.089 ppb	44.729 ppb	108.752 %	104.955 %
Concentration per Run 3	112.760 %	46.666 ppb	45.702 ppb	108.511 %	109.629 %
Concentration RSD	3.9 %	2.2 %	1.1 %	2.0 %	3.9 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	145	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1930656-6d5 6020SL	Rack	2		
Analysis started at:	6/10/2024 8:49:21 PM	Vial	39		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	87.765 %	81.206 %	0.025 ppb	30.141 ppb	11,230.146 ppb	6,658.310 ppb	81.008 ppb	3,849.727 ppb	18,158.825 ppb
Concentration per Run 1	87.856 %	84.993 %	0.024 ppb	30.389 ppb	11,268.162 ppb	6,628.226 ppb	84.191 ppb	3,904.262 ppb	19,325.553 ppb
Concentration per Run 2	87.949 %	80.575 %	0.028 ppb	29.722 ppb	11,127.140 ppb	6,608.518 ppb	80.656 ppb	3,801.137 ppb	17,385.354 ppb
Concentration per Run 3	87.490 %	78.050 %	0.022 ppb	30.312 ppb	11,295.137 ppb	6,738.187 ppb	78.177 ppb	3,843.784 ppb	17,765.570 ppb
Concentration RSD	0.3 %	4.3 %	12.7 %	1.2 %	0.8 %	1.0 %	3.7 %	1.3 %	5.7 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	108.295 %	96.219 %	0.259 ppb	0.284 ppb	17.504 ppb	141.834 ppb	0.341 ppb	0.748 ppb	0.561 ppb
Concentration per Run 1	105.731 %	93.747 %	0.339 ppb	0.294 ppb	18.672 ppb	142.931 ppb	0.382 ppb	0.773 ppb	0.567 ppb
Concentration per Run 2	109.271 %	97.771 %	0.205 ppb	0.270 ppb	16.881 ppb	139.267 ppb	0.339 ppb	0.714 ppb	0.543 ppb
Concentration per Run 3	109.884 %	97.139 %	0.232 ppb	0.289 ppb	16.959 ppb	143.304 ppb	0.301 ppb	0.755 ppb	0.572 ppb
Concentration RSD	2.1 %	2.2 %	27.3 %	4.6 %	5.8 %	1.6 %	11.9 %	4.0 %	2.8 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	1.026 ppb	104.013 %	97.158 %	0.057 ppb	0.180 ppb	76.708 ppb	0.281 ppb	99.990 %	95.201 %
Concentration per Run 1	1.128 ppb	103.656 %	91.361 %	0.140 ppb	0.170 ppb	80.801 ppb	0.256 ppb	99.039 %	90.857 %
Concentration per Run 2	1.003 ppb	104.153 %	100.417 %	0.039 ppb	0.283 ppb	73.989 ppb	0.284 ppb	100.023 %	97.634 %
Concentration per Run 3	0.948 ppb	104.230 %	99.696 %	-0.009 ppb	0.087 ppb	75.332 ppb	0.303 ppb	100.908 %	97.113 %
Concentration RSD	9.0 %	0.3 %	5.2 %	133.9 %	54.7 %	4.7 %	8.5 %	0.9 %	4.0 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.002 ppb	0.006 ppb	103.975 %	97.976 %	0.209 ppb	18.401 ppb	109.410 %	104.793 %	108.666 %
Concentration per Run 1	0.001 ppb	0.005 ppb	104.596 %	93.876 %	0.176 ppb	18.501 ppb	110.256 %	100.954 %	109.716 %
Concentration per Run 2	0.002 ppb	0.005 ppb	104.667 %	101.018 %	0.203 ppb	18.158 ppb	110.497 %	107.441 %	107.665 %
Concentration per Run 3	0.002 ppb	0.007 ppb	102.662 %	99.034 %	0.247 ppb	18.545 ppb	107.478 %	105.983 %	108.616 %
Concentration RSD	59.2 %	20.4 %	1.1 %	3.8 %	17.3 %	1.2 %	1.5 %	3.2 %	0.9 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.913 %	0.302 ppb	0.050 ppb	107.128 %	107.863 %
Concentration per Run 1	102.279 %	0.329 ppb	0.049 ppb	105.358 %	101.351 %
Concentration per Run 2	109.748 %	0.296 ppb	0.049 ppb	108.351 %	111.276 %
Concentration per Run 3	111.710 %	0.280 ppb	0.050 ppb	107.673 %	110.961 %
Concentration RSD	4.6 %	8.3 %	1.3 %	1.5 %	5.2 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	146	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430210-01 6020SL	Rack	2		
Analysis started at:	6/10/2024 8:54:04 PM	Vial	45		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	91.038 %	86.045 %	0.018 ppb	312.607 ppb	96,307.647 ppb	33,450.867 ppb	10.057 ppb	50,482.011 ppb	147,250.658 ppb
Concentration per Run 1	91.270 %	84.993 %	0.021 ppb	309.038 ppb	98,364.525 ppb	34,191.008 ppb	8.374 ppb	52,120.860 ppb	153,693.209 ppb
Concentration per Run 2	90.971 %	84.993 %	0.016 ppb	311.398 ppb	96,330.625 ppb	33,246.982 ppb	12.660 ppb	49,551.134 ppb	143,752.814 ppb
Concentration per Run 3	90.874 %	88.149 %	0.018 ppb	317.383 ppb	94,227.790 ppb	32,914.613 ppb	9.136 ppb	49,774.039 ppb	144,305.952 ppb
Concentration RSD	0.2 %	2.1 %	14.1 %	1.4 %	2.1 %	2.0 %	22.7 %	2.8 %	3.8 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	106.849 %	94.120 %	1.734 ppb	1.944 ppb	3,632.281 ppb	26,946.757 ppb	3.376 ppb	6.614 ppb	0.192 ppb
Concentration per Run 1	112.243 %	90.842 %	1.897 ppb	2.127 ppb	3,827.193 ppb	28,382.773 ppb	3.619 ppb	7.132 ppb	0.225 ppb
Concentration per Run 2	115.612 %	96.035 %	1.552 ppb	1.886 ppb	3,489.951 ppb	26,103.196 ppb	3.203 ppb	6.407 ppb	0.181 ppb
Concentration per Run 3	92.692 %	95.483 %	1.752 ppb	1.818 ppb	3,579.697 ppb	26,354.304 ppb	3.305 ppb	6.302 ppb	0.169 ppb
Concentration RSD	11.6 %	3.0 %	10.0 %	8.4 %	4.8 %	4.6 %	6.4 %	6.8 %	15.3 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	1.850 ppb	103.856 %	95.928 %	1.107 ppb	0.599 ppb	564.265 ppb	1.927 ppb	88.996 %	88.486 %
Concentration per Run 1	2.079 ppb	102.507 %	90.519 %	1.049 ppb	0.632 ppb	592.098 ppb	1.984 ppb	87.624 %	84.862 %
Concentration per Run 2	1.699 ppb	104.958 %	99.068 %	1.120 ppb	0.582 ppb	551.375 ppb	1.837 ppb	89.668 %	89.454 %
Concentration per Run 3	1.772 ppb	104.102 %	98.197 %	1.153 ppb	0.585 ppb	549.324 ppb	1.960 ppb	89.696 %	91.142 %
Concentration RSD	10.9 %	1.2 %	4.9 %	4.8 %	4.7 %	4.3 %	4.1 %	1.3 %	3.7 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.002 ppb	93.739 %	92.506 %	0.392 ppb	225.899 ppb	103.119 %	99.854 %	103.880 %
Concentration per Run 1	0.000 ppb	0.000 ppb	94.281 %	85.862 %	0.422 ppb	226.210 ppb	105.061 %	93.950 %	104.277 %
Concentration per Run 2	-0.001 ppb	0.001 ppb	94.242 %	94.595 %	0.377 ppb	227.013 ppb	103.182 %	102.643 %	103.889 %
Concentration per Run 3	0.000 ppb	0.004 ppb	92.694 %	97.061 %	0.376 ppb	224.476 ppb	101.115 %	102.969 %	103.474 %
Concentration RSD	128.9 %	152.1 %	1.0 %	6.4 %	6.7 %	0.6 %	1.9 %	5.1 %	0.4 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	104.488 %	0.136 ppb	0.058 ppb	94.813 %	97.370 %
Concentration per Run 1	99.477 %	0.141 ppb	0.056 ppb	94.161 %	93.298 %
Concentration per Run 2	106.996 %	0.137 ppb	0.059 ppb	96.133 %	98.570 %
Concentration per Run 3	106.990 %	0.131 ppb	0.059 ppb	94.144 %	100.241 %
Concentration RSD	4.2 %	3.5 %	3.4 %	1.2 %	3.7 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	147	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430210-02 6020SL	Rack	2		
Analysis started at:	6/10/2024 8:58:47 PM	Vial	46		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.856 %	86.255 %	0.017 ppb	26.517 ppb	13,906.110 ppb	5,869.092 ppb	1.436 ppb	5,485.682 ppb	19,601.426 ppb
Concentration per Run 1	90.045 %	75.315 %	0.009 ppb	26.423 ppb	15,376.192 ppb	6,503.928 ppb	2.504 ppb	5,753.294 ppb	20,504.159 ppb
Concentration per Run 2	90.276 %	90.252 %	0.022 ppb	26.732 ppb	13,281.895 ppb	5,687.723 ppb	1.160 ppb	5,347.959 ppb	19,311.073 ppb
Concentration per Run 3	89.246 %	93.198 %	0.019 ppb	26.396 ppb	13,060.243 ppb	5,415.626 ppb	0.644 ppb	5,355.792 ppb	18,989.046 ppb
Concentration RSD	0.6 %	11.1 %	39.4 %	0.7 %	9.2 %	9.6 %	66.9 %	4.2 %	4.1 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	108.299 %	96.306 %	0.063 ppb	0.112 ppb	199.184 ppb	208.752 ppb	0.837 ppb	2.525 ppb	0.178 ppb
Concentration per Run 1	115.192 %	92.676 %	0.085 ppb	0.100 ppb	209.697 ppb	228.599 ppb	0.866 ppb	2.722 ppb	0.202 ppb
Concentration per Run 2	94.489 %	96.765 %	0.049 ppb	0.142 ppb	198.215 ppb	202.589 ppb	0.878 ppb	2.551 ppb	0.166 ppb
Concentration per Run 3	115.216 %	99.475 %	0.055 ppb	0.093 ppb	189.640 ppb	195.068 ppb	0.768 ppb	2.302 ppb	0.166 ppb
Concentration RSD	11.0 %	3.6 %	30.0 %	23.7 %	5.1 %	8.4 %	7.2 %	8.4 %	11.7 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	1.679 ppb	107.206 %	99.057 %	0.032 ppb	0.163 ppb	78.330 ppb	0.153 ppb	101.764 %	95.452 %
Concentration per Run 1	1.826 ppb	106.050 %	94.122 %	0.003 ppb	0.054 ppb	83.207 ppb	0.140 ppb	103.365 %	90.912 %
Concentration per Run 2	1.681 ppb	106.838 %	100.081 %	0.038 ppb	0.188 ppb	75.178 ppb	0.167 ppb	101.696 %	97.198 %
Concentration per Run 3	1.530 ppb	108.729 %	102.968 %	0.055 ppb	0.247 ppb	76.606 ppb	0.153 ppb	100.231 %	98.245 %
Concentration RSD	8.8 %	1.3 %	4.6 %	82.6 %	60.9 %	5.5 %	8.8 %	1.5 %	4.2 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.023 ppb	0.003 ppb	105.689 %	99.455 %	0.133 ppb	20.090 ppb	108.279 %	104.856 %	109.311 %
Concentration per Run 1	0.022 ppb	0.002 ppb	108.396 %	93.227 %	0.118 ppb	19.575 ppb	107.703 %	101.312 %	111.268 %
Concentration per Run 2	0.024 ppb	0.003 ppb	103.468 %	102.044 %	0.137 ppb	20.208 ppb	109.244 %	107.542 %	107.642 %
Concentration per Run 3	0.021 ppb	0.005 ppb	105.203 %	103.092 %	0.144 ppb	20.486 ppb	107.891 %	105.714 %	109.023 %
Concentration RSD	6.1 %	46.8 %	2.4 %	5.4 %	10.0 %	2.3 %	0.8 %	3.1 %	1.7 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	108.506 %	0.075 ppb	0.013 ppb	109.548 %	109.313 %
Concentration per Run 1	102.884 %	0.077 ppb	0.013 ppb	108.119 %	103.144 %
Concentration per Run 2	110.848 %	0.075 ppb	0.012 ppb	108.465 %	108.431 %
Concentration per Run 3	111.788 %	0.072 ppb	0.012 ppb	112.061 %	116.364 %
Concentration RSD	4.5 %	3.5 %	6.7 %	2.0 %	6.1 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	148	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430210-04 6020SL	Rack	2		
Analysis started at:	6/10/2024 9:03:30 PM	Vial	47		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	87.233 %	78.681 %	0.051 ppb	406.697 ppb	29,371.672 ppb	47,068.642 ppb	1,430.992 ppb	17,190.390 ppb	147,394.625 ppb
Concentration per Run 1	86.906 %	77.629 %	0.049 ppb	408.672 ppb	29,873.114 ppb	48,063.321 ppb	1,478.549 ppb	17,650.981 ppb	151,742.208 ppb
Concentration per Run 2	88.107 %	80.785 %	0.052 ppb	401.532 ppb	28,701.935 ppb	46,340.055 ppb	1,391.761 ppb	16,840.608 ppb	144,890.724 ppb
Concentration per Run 3	86.686 %	77.630 %	0.052 ppb	409.886 ppb	29,539.968 ppb	46,802.550 ppb	1,422.667 ppb	17,079.583 ppb	145,550.945 ppb
Concentration RSD	0.9 %	2.3 %	3.2 %	1.1 %	2.1 %	1.9 %	3.1 %	2.4 %	2.6 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	93.303 %	97.755 %	4.167 ppb	4.826 ppb	129.836 ppb	2,470.493 ppb	2.307 ppb	8.294 ppb	8.702 ppb
Concentration per Run 1	93.953 %	95.483 %	4.098 ppb	5.084 ppb	135.119 ppb	2,581.227 ppb	2.403 ppb	8.463 ppb	9.079 ppb
Concentration per Run 2	94.208 %	99.897 %	4.197 ppb	4.762 ppb	127.869 ppb	2,403.891 ppb	2.306 ppb	8.360 ppb	8.385 ppb
Concentration per Run 3	91.749 %	97.885 %	4.208 ppb	4.632 ppb	126.519 ppb	2,426.361 ppb	2.210 ppb	8.059 ppb	8.641 ppb
Concentration RSD	1.4 %	2.3 %	1.5 %	4.8 %	3.6 %	3.9 %	4.2 %	2.5 %	4.0 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	46.197 ppb	103.712 %	97.218 %	0.273 ppb	7.308 ppb	732.015 ppb	0.476 ppb	92.907 %	91.351 %
Concentration per Run 1	48.504 ppb	102.844 %	93.574 %	0.296 ppb	7.587 ppb	760.986 ppb	0.511 ppb	94.202 %	87.338 %
Concentration per Run 2	45.496 ppb	103.608 %	96.785 %	0.224 ppb	7.880 ppb	715.622 ppb	0.424 ppb	94.105 %	94.690 %
Concentration per Run 3	44.592 ppb	104.684 %	101.294 %	0.298 ppb	6.457 ppb	719.436 ppb	0.492 ppb	90.414 %	92.026 %
Concentration RSD	4.4 %	0.9 %	4.0 %	15.5 %	10.3 %	3.4 %	9.7 %	2.3 %	4.1 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.012 ppb	0.074 ppb	98.139 %	94.933 %	0.318 ppb	53.325 ppb	104.228 %	102.315 %	103.702 %
Concentration per Run 1	0.013 ppb	0.083 ppb	97.829 %	88.968 %	0.337 ppb	52.136 ppb	105.951 %	96.402 %	105.391 %
Concentration per Run 2	0.010 ppb	0.067 ppb	99.414 %	99.340 %	0.307 ppb	53.166 ppb	104.151 %	107.143 %	103.668 %
Concentration per Run 3	0.014 ppb	0.073 ppb	97.174 %	96.490 %	0.310 ppb	54.672 ppb	102.583 %	103.399 %	102.047 %
Concentration RSD	18.6 %	10.8 %	1.2 %	5.6 %	5.2 %	2.4 %	1.6 %	5.3 %	1.6 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	106.073 %	0.082 ppb	1.219 ppb	98.729 %	99.505 %
Concentration per Run 1	100.298 %	0.084 ppb	1.216 ppb	96.423 %	94.620 %
Concentration per Run 2	109.577 %	0.082 ppb	1.203 ppb	101.952 %	101.392 %
Concentration per Run 3	108.342 %	0.081 ppb	1.239 ppb	97.812 %	102.503 %
Concentration RSD	4.8 %	1.5 %	1.5 %	2.9 %	4.3 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 149 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: CCV Rack 0
Analysis started at: 6/10/2024 9:08:13 PM Vial 9

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	88.056 %	87.237 %	59.714 ppb	61.970 ppb	5,971.414 ppb	6,019.827 ppb	56.914 ppb	5,746.966 ppb	6,438.544 ppb
Concentration per Run 1	88.263 %	80.996 %	60.781 ppb	63.711 ppb	6,445.044 ppb	6,410.602 ppb	55.686 ppb	5,987.518 ppb	6,817.894 ppb
Concentration per Run 2	88.695 %	96.564 %	58.562 ppb	60.574 ppb	5,566.853 ppb	5,627.714 ppb	55.615 ppb	5,587.922 ppb	6,334.489 ppb
Concentration per Run 3	87.211 %	84.151 %	59.797 ppb	61.625 ppb	5,902.346 ppb	6,021.165 ppb	59.441 ppb	5,665.459 ppb	6,163.248 ppb
Recovery Percentage 1			99.523 %	103.284 %	99.524 %	100.330 %	94.857 %	95.783 %	107.309 %
Concentration RSD	0.9 %	9.4 %	1.9 %	2.6 %	7.4 %	6.5 %	3.8 %	3.7 %	5.3 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	104.544 %	99.621 %	62.681 ppb	63.176 ppb	60.292 ppb	6,062.839 ppb	62.796 ppb	63.897 ppb	61.042 ppb
Concentration per Run 1	93.164 %	98.080 %	63.814 ppb	66.122 ppb	62.908 ppb	6,287.533 ppb	67.633 ppb	67.194 ppb	64.437 ppb
Concentration per Run 2	110.720 %	99.524 %	63.226 ppb	63.272 ppb	59.826 ppb	6,058.657 ppb	60.853 ppb	63.693 ppb	59.493 ppb
Concentration per Run 3	109.748 %	101.260 %	61.003 ppb	60.133 ppb	58.143 ppb	5,842.326 ppb	59.903 ppb	60.803 ppb	59.195 ppb
Recovery Percentage 1			104.469 %	105.293 %	100.487 %	101.047 %	104.661 %	106.494 %	101.736 %
Concentration RSD	9.4 %	1.6 %	2.4 %	4.7 %	4.0 %	3.7 %	6.7 %	5.0 %	4.8 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	60.130 ppb	101.888 %	97.785 %	58.548 ppb	61.046 ppb	60.391 ppb	59.655 ppb	101.048 %	95.619 %
Concentration per Run 1	64.393 ppb	102.000 %	92.683 %	61.279 ppb	66.051 ppb	63.907 ppb	64.092 ppb	102.301 %	90.636 %
Concentration per Run 2	58.874 ppb	101.790 %	98.748 %	57.705 ppb	57.140 ppb	59.365 ppb	59.115 ppb	101.784 %	97.068 %
Concentration per Run 3	57.123 ppb	101.874 %	101.924 %	56.661 ppb	59.948 ppb	57.902 ppb	55.756 ppb	99.059 %	99.152 %
Recovery Percentage 1	100.216 %			97.581 %	101.744 %	100.652 %	99.424 %		
Concentration RSD	6.3 %	0.1 %	4.8 %	4.1 %	7.5 %	5.2 %	7.0 %	1.7 %	4.6 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	62.641 ppb	62.411 ppb	102.370 %	99.766 %	56.746 ppb	59.917 ppb	107.567 %	103.472 %	108.256 %
Concentration per Run 1	67.283 ppb	66.250 ppb	103.315 %	92.898 %	61.602 ppb	57.808 ppb	109.216 %	98.073 %	108.764 %
Concentration per Run 2	60.477 ppb	61.988 ppb	101.027 %	101.706 %	54.774 ppb	60.727 ppb	107.273 %	106.950 %	108.465 %
Concentration per Run 3	60.164 ppb	58.997 ppb	102.767 %	104.694 %	53.861 ppb	61.216 ppb	106.211 %	105.392 %	107.539 %
Recovery Percentage 1	104.402 %	104.019 %			94.576 %	99.862 %			
Concentration RSD	6.4 %	5.8 %	1.2 %	6.1 %	7.5 %	3.1 %	1.4 %	4.6 %	0.6 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	108.638 %	59.796 ppb	61.003 ppb	105.972 %	107.204 %
Concentration per Run 1	103.057 %	60.300 ppb	60.686 ppb	105.121 %	98.884 %
Concentration per Run 2	110.616 %	59.722 ppb	60.922 ppb	106.455 %	110.330 %
Concentration per Run 3	112.242 %	59.367 ppb	61.399 ppb	106.339 %	112.398 %
Recovery Percentage 1		99.661 %	101.671 %		
Concentration RSD	4.5 %	0.8 %	0.6 %	0.7 %	6.8 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	150	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/10/2024 9:13:00 PM	Vial	10		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.381 %	88.359 %	0.029 ppb	0.777 ppb	-3.921 ppb	3.163 ppb	-1.541 ppb	-18.013 ppb	15.312 ppb
Concentration per Run 1	89.649 %	85.414 %	0.036 ppb	0.793 ppb	-1.278 ppb	2.947 ppb	-1.624 ppb	-12.943 ppb	22.541 ppb
Concentration per Run 2	89.161 %	90.673 %	0.026 ppb	0.794 ppb	-5.762 ppb	4.655 ppb	-2.117 ppb	-17.445 ppb	9.893 ppb
Concentration per Run 3	89.332 %	88.990 %	0.027 ppb	0.744 ppb	-4.722 ppb	1.887 ppb	-0.881 ppb	-23.651 ppb	13.502 ppb
Recovery Percentage 1			5.896 %	7.774 %	-3.921 %	4.519 %	-15.405 %	-18.013 %	15.312 %
Concentration RSD	0.3 %	3.0 %	18.1 %	3.7 %	59.9 %	44.2 %	40.4 %	29.8 %	42.6 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	103.572 %	95.505 %	-0.001 ppb	-0.017 ppb	0.105 ppb	4.561 ppb	0.010 ppb	-0.004 ppb	-0.008 ppb
Concentration per Run 1	104.752 %	90.680 %	0.001 ppb	-0.008 ppb	0.130 ppb	5.571 ppb	0.015 ppb	0.048 ppb	-0.005 ppb
Concentration per Run 2	104.121 %	98.145 %	-0.019 ppb	-0.029 ppb	0.087 ppb	4.926 ppb	0.010 ppb	-0.006 ppb	-0.015 ppb
Concentration per Run 3	101.843 %	97.690 %	0.015 ppb	-0.015 ppb	0.099 ppb	3.184 ppb	0.006 ppb	-0.055 ppb	-0.005 ppb
Recovery Percentage 1			-0.024 %	-1.729 %	10.530 %	9.121 %	2.044 %	-0.219 %	-0.830 %
Concentration RSD	1.5 %	4.4 %	1,438.9 %	62.3 %	20.9 %	27.1 %	44.9 %	1,168.4 %	70.4 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.036 ppb	100.907 %	96.623 %	0.036 ppb	0.102 ppb	0.054 ppb	0.216 ppb	102.646 %	98.188 %
Concentration per Run 1	0.069 ppb	102.354 %	91.333 %	0.028 ppb	0.097 ppb	0.054 ppb	0.193 ppb	102.712 %	92.100 %
Concentration per Run 2	0.006 ppb	101.581 %	97.413 %	0.060 ppb	0.056 ppb	0.058 ppb	0.236 ppb	102.424 %	101.745 %
Concentration per Run 3	0.033 ppb	98.786 %	101.122 %	0.020 ppb	0.153 ppb	0.050 ppb	0.219 ppb	102.803 %	100.721 %
Recovery Percentage 1	0.717 %			7.194 %	2.038 %	10.859 %	10.798 %		
Concentration RSD	87.4 %	1.9 %	5.1 %	58.7 %	47.7 %	7.1 %	9.9 %	0.2 %	5.4 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.009 ppb	0.007 ppb	105.838 %	101.789 %	1.243 ppb	0.021 ppb	108.534 %	102.822 %	108.772 %
Concentration per Run 1	0.013 ppb	0.008 ppb	106.217 %	96.211 %	1.124 ppb	0.020 ppb	109.636 %	98.883 %	109.618 %
Concentration per Run 2	0.005 ppb	0.011 ppb	104.447 %	107.165 %	1.268 ppb	0.020 ppb	107.743 %	103.836 %	107.794 %
Concentration per Run 3	0.009 ppb	0.004 ppb	106.849 %	101.989 %	1.335 ppb	0.023 ppb	108.223 %	105.747 %	108.905 %
Recovery Percentage 1	2.227 %				31.063 %	4.205 %			
Concentration RSD	41.5 %	46.9 %	1.2 %	5.4 %	8.7 %	9.4 %	0.9 %	3.4 %	0.8 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	109.845 %	0.090 ppb	0.008 ppb	110.548 %	112.451 %
Concentration per Run 1	104.119 %	0.101 ppb	0.009 ppb	108.477 %	105.546 %
Concentration per Run 2	110.769 %	0.088 ppb	0.008 ppb	111.237 %	114.250 %
Concentration per Run 3	114.646 %	0.081 ppb	0.007 ppb	111.931 %	117.557 %
Recovery Percentage 1		8.992 %	0.783 %		
Concentration RSD	4.8 %	10.9 %	15.6 %	1.7 %	5.5 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	151	User name	ALPHALAB\ICPMSRQ	Comment	fb
Analysis label:	L2430219-10 6020SL	Rack	2		
Analysis started at:	6/10/2024 9:17:47 PM	Vial	57		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	90.685 %	90.322 %	0.017 ppb	0.743 ppb	-8.135 ppb	1.853 ppb	0.360 ppb	-21.203 ppb	6.096 ppb
Concentration per Run 1	91.387 %	88.569 %	0.017 ppb	0.753 ppb	-4.955 ppb	3.783 ppb	1.295 ppb	-19.721 ppb	7.670 ppb
Concentration per Run 2	90.125 %	97.195 %	0.019 ppb	0.748 ppb	-11.109 ppb	0.970 ppb	-0.163 ppb	-22.438 ppb	14.056 ppb
Concentration per Run 3	90.544 %	85.203 %	0.015 ppb	0.728 ppb	-8.340 ppb	0.805 ppb	-0.052 ppb	-21.448 ppb	-3.438 ppb
Concentration RSD	0.7 %	6.8 %	13.9 %	1.7 %	37.9 %	90.3 %	225.3 %	6.5 %	145.2 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	101.130 %	96.598 %	-0.009 ppb	0.209 ppb	0.063 ppb	1.867 ppb	0.002 ppb	0.024 ppb	0.045 ppb
Concentration per Run 1	90.073 %	92.644 %	-0.004 ppb	0.244 ppb	0.062 ppb	1.458 ppb	0.004 ppb	0.042 ppb	0.046 ppb
Concentration per Run 2	107.641 %	96.911 %	-0.015 ppb	0.199 ppb	0.053 ppb	1.836 ppb	-0.004 ppb	0.047 ppb	0.032 ppb
Concentration per Run 3	105.677 %	100.238 %	-0.007 ppb	0.184 ppb	0.073 ppb	2.306 ppb	0.006 ppb	-0.017 ppb	0.056 ppb
Concentration RSD	9.5 %	3.9 %	61.9 %	14.9 %	15.4 %	22.8 %	265.9 %	149.9 %	26.7 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.029 ppb	102.184 %	96.816 %	0.020 ppb	0.006 ppb	0.011 ppb	0.068 ppb	105.140 %	99.073 %
Concentration per Run 1	0.060 ppb	103.352 %	90.519 %	-0.011 ppb	0.032 ppb	0.018 ppb	0.062 ppb	104.512 %	92.946 %
Concentration per Run 2	0.012 ppb	102.187 %	99.925 %	0.001 ppb	0.028 ppb	0.008 ppb	0.063 ppb	104.081 %	100.834 %
Concentration per Run 3	0.015 ppb	101.014 %	100.003 %	0.071 ppb	-0.041 ppb	0.005 ppb	0.077 ppb	106.828 %	103.439 %
Concentration RSD	92.6 %	1.1 %	5.6 %	218.5 %	659.1 %	65.7 %	12.4 %	1.4 %	5.5 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.000 ppb	106.149 %	101.287 %	0.416 ppb	0.053 ppb	109.877 %	104.613 %	111.936 %
Concentration per Run 1	0.001 ppb	0.000 ppb	107.844 %	94.528 %	0.369 ppb	0.051 ppb	110.644 %	99.389 %	113.163 %
Concentration per Run 2	0.000 ppb	0.001 ppb	105.267 %	104.640 %	0.429 ppb	0.056 ppb	109.189 %	106.488 %	111.523 %
Concentration per Run 3	0.001 ppb	0.001 ppb	105.335 %	104.693 %	0.451 ppb	0.054 ppb	109.797 %	107.961 %	111.121 %
Concentration RSD	240.9 %	175.1 %	1.4 %	5.8 %	10.3 %	4.7 %	0.7 %	4.4 %	1.0 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.938 %	0.043 ppb	0.004 ppb	114.995 %	111.931 %
Concentration per Run 1	100.573 %	0.046 ppb	0.004 ppb	113.998 %	104.324 %
Concentration per Run 2	111.090 %	0.041 ppb	0.004 ppb	116.278 %	115.849 %
Concentration per Run 3	112.151 %	0.043 ppb	0.004 ppb	114.708 %	115.619 %
Concentration RSD	5.9 %	5.0 %	8.3 %	1.0 %	5.9 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 152 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: L2430210-05 6020SL Rack 2
Analysis started at: 6/10/2024 9:22:30 PM Vial 48

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	87.885 %	81.697 %	0.045 ppb	374.334 ppb	30,440.525 ppb	46,095.171 ppb	1,299.238 ppb	17,827.968 ppb	145,715.694 ppb
Concentration per Run 1	87.231 %	70.897 %	0.049 ppb	371.893 ppb	33,675.372 ppb	51,112.057 ppb	1,381.931 ppb	18,985.970 ppb	155,042.246 ppb
Concentration per Run 2	87.865 %	84.782 %	0.045 ppb	381.378 ppb	29,391.712 ppb	44,678.739 ppb	1,285.434 ppb	17,592.875 ppb	142,341.478 ppb
Concentration per Run 3	88.560 %	89.411 %	0.042 ppb	369.730 ppb	28,254.491 ppb	42,494.717 ppb	1,230.350 ppb	16,905.059 ppb	139,763.358 ppb
Concentration RSD	0.8 %	11.8 %	6.9 %	1.7 %	9.4 %	9.7 %	5.9 %	5.9 %	5.6 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	107.174 %	94.477 %	3.852 ppb	4.778 ppb	96.963 ppb	2,298.313 ppb	2.063 ppb	6.844 ppb	8.245 ppb
Concentration per Run 1	113.412 %	90.534 %	4.158 ppb	5.058 ppb	103.469 ppb	2,448.192 ppb	2.255 ppb	7.365 ppb	8.770 ppb
Concentration per Run 2	95.492 %	95.938 %	3.486 ppb	4.624 ppb	93.868 ppb	2,175.312 ppb	1.949 ppb	6.322 ppb	7.793 ppb
Concentration per Run 3	112.618 %	96.960 %	3.912 ppb	4.650 ppb	93.552 ppb	2,271.436 ppb	1.986 ppb	6.846 ppb	8.171 ppb
Concentration RSD	9.4 %	3.7 %	8.8 %	5.1 %	5.8 %	6.0 %	8.1 %	7.6 %	6.0 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	29.747 ppb	103.359 %	95.628 %	0.181 ppb	6.868 ppb	709.334 ppb	0.414 ppb	93.008 %	89.822 %
Concentration per Run 1	31.513 ppb	102.975 %	90.082 %	0.085 ppb	7.549 ppb	754.204 ppb	0.482 ppb	88.590 %	85.362 %
Concentration per Run 2	29.180 ppb	103.730 %	98.007 %	0.158 ppb	6.625 ppb	688.223 ppb	0.347 ppb	94.571 %	91.394 %
Concentration per Run 3	28.547 ppb	103.371 %	98.795 %	0.299 ppb	6.431 ppb	685.575 ppb	0.414 ppb	95.863 %	92.711 %
Concentration RSD	5.3 %	0.4 %	5.0 %	60.4 %	8.7 %	5.5 %	16.2 %	4.2 %	4.4 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.013 ppb	0.074 ppb	98.471 %	93.225 %	0.383 ppb	60.176 ppb	107.252 %	99.322 %	107.820 %
Concentration per Run 1	0.018 ppb	0.089 ppb	97.398 %	86.429 %	0.376 ppb	58.843 ppb	108.054 %	94.583 %	107.593 %
Concentration per Run 2	0.012 ppb	0.078 ppb	98.026 %	96.634 %	0.349 ppb	61.824 ppb	108.429 %	100.287 %	110.304 %
Concentration per Run 3	0.009 ppb	0.055 ppb	99.988 %	96.611 %	0.423 ppb	59.861 ppb	105.273 %	103.097 %	105.565 %
Concentration RSD	35.8 %	23.2 %	1.4 %	6.3 %	9.8 %	2.5 %	1.6 %	4.4 %	2.2 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	105.226 %	0.061 ppb	0.940 ppb	100.554 %	99.781 %
Concentration per Run 1	97.792 %	0.058 ppb	0.916 ppb	100.601 %	94.245 %
Concentration per Run 2	107.674 %	0.062 ppb	0.935 ppb	100.990 %	102.417 %
Concentration per Run 3	110.212 %	0.063 ppb	0.969 ppb	100.072 %	102.681 %
Concentration RSD	6.2 %	4.3 %	2.8 %	0.5 %	4.8 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 153
Analysis label: L2430219-01 6020SL
Analysis started at: 6/10/2024 9:27:14 PM
User name ALPHALAB\ICPMSRQ
Rack 2
Vial 49
Comment <Comment>

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	87.606 %	82.609 %	0.012 ppb	64.338 ppb	43,090.199 ppb	208.276 ppb	838.597 ppb	21,185.367 ppb	105,317.088 ppb
Concentration per Run 1	87.778 %	71.528 %	0.013 ppb	65.135 ppb	47,698.250 ppb	223.206 ppb	932.268 ppb	22,341.597 ppb	109,654.065 ppb
Concentration per Run 2	88.261 %	88.780 %	0.014 ppb	64.608 ppb	40,818.158 ppb	205.723 ppb	778.262 ppb	20,473.149 ppb	103,846.192 ppb
Concentration per Run 3	86.778 %	87.517 %	0.009 ppb	63.270 ppb	40,754.191 ppb	195.899 ppb	805.262 ppb	20,741.356 ppb	102,451.006 ppb
Concentration RSD	0.9 %	11.6 %	22.4 %	1.5 %	9.3 %	6.6 %	9.8 %	4.8 %	3.6 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	100.882 %	95.040 %	17.103 ppb	0.401 ppb	726.457 ppb	122.551 ppb	0.498 ppb	4.519 ppb	1.144 ppb
Concentration per Run 1	95.915 %	92.741 %	17.665 ppb	0.423 ppb	765.849 ppb	126.958 ppb	0.531 ppb	4.758 ppb	1.192 ppb
Concentration per Run 2	93.976 %	95.743 %	16.666 ppb	0.391 ppb	703.186 ppb	116.014 ppb	0.461 ppb	4.413 ppb	1.095 ppb
Concentration per Run 3	112.756 %	96.635 %	16.979 ppb	0.388 ppb	710.336 ppb	124.682 ppb	0.502 ppb	4.386 ppb	1.146 ppb
Concentration RSD	10.2 %	2.1 %	3.0 %	4.8 %	4.7 %	4.7 %	7.1 %	4.6 %	4.2 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.338 ppb	107.085 %	97.754 %	4.099 ppb	0.922 ppb	813.522 ppb	24.634 ppb	97.427 %	92.156 %
Concentration per Run 1	0.434 ppb	106.093 %	93.016 %	4.273 ppb	0.944 ppb	868.721 ppb	26.154 ppb	96.784 %	86.850 %
Concentration per Run 2	0.239 ppb	108.560 %	101.351 %	3.812 ppb	0.914 ppb	780.958 ppb	23.034 ppb	95.946 %	94.899 %
Concentration per Run 3	0.341 ppb	106.601 %	98.893 %	4.212 ppb	0.908 ppb	790.886 ppb	24.714 ppb	99.552 %	94.718 %
Concentration RSD	28.8 %	1.2 %	4.4 %	6.1 %	2.1 %	5.9 %	6.3 %	1.9 %	5.0 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	-0.001 ppb	0.005 ppb	100.855 %	96.000 %	0.985 ppb	7.716 ppb	105.914 %	102.662 %	106.821 %
Concentration per Run 1	0.000 ppb	0.003 ppb	100.009 %	90.543 %	0.996 ppb	7.621 ppb	106.155 %	97.568 %	108.690 %
Concentration per Run 2	-0.001 ppb	0.003 ppb	101.257 %	98.322 %	0.972 ppb	7.737 ppb	105.585 %	105.554 %	106.603 %
Concentration per Run 3	0.000 ppb	0.007 ppb	101.299 %	99.135 %	0.987 ppb	7.790 ppb	106.002 %	104.862 %	105.171 %
Concentration RSD	82.2 %	54.1 %	0.7 %	4.9 %	1.3 %	1.1 %	0.3 %	4.3 %	1.7 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	105.133 %	0.028 ppb	0.024 ppb	102.243 %	101.693 %
Concentration per Run 1	98.863 %	0.029 ppb	0.025 ppb	100.531 %	97.459 %
Concentration per Run 2	108.955 %	0.028 ppb	0.022 ppb	104.695 %	102.678 %
Concentration per Run 3	107.581 %	0.028 ppb	0.024 ppb	101.502 %	104.942 %
Concentration RSD	5.2 %	2.9 %	6.7 %	2.1 %	3.8 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	154	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430219-02 6020SL	Rack	2		
Analysis started at:	6/10/2024 9:31:57 PM	Vial	50		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	88.512 %	86.886 %	0.011 ppb	140.929 ppb	7,192.102 ppb	8,130.075 ppb	0.966 ppb	11,784.124 ppb	89,227.469 ppb
Concentration per Run 1	88.618 %	85.203 %	0.008 ppb	143.262 ppb	7,543.060 ppb	8,402.069 ppb	-0.359 ppb	12,305.398 ppb	94,357.251 ppb
Concentration per Run 2	87.928 %	84.151 %	0.012 ppb	141.416 ppb	7,252.285 ppb	8,137.538 ppb	2.958 ppb	11,681.143 ppb	87,131.341 ppb
Concentration per Run 3	88.989 %	91.304 %	0.012 ppb	138.110 ppb	6,780.962 ppb	7,850.620 ppb	0.299 ppb	11,365.829 ppb	86,193.816 ppb
Concentration RSD	0.6 %	4.4 %	20.8 %	1.9 %	5.3 %	3.4 %	181.8 %	4.1 %	5.0 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	104.228 %	96.214 %	0.496 ppb	1.691 ppb	0.172 ppb	5.393 ppb	0.438 ppb	0.422 ppb	2.079 ppb
Concentration per Run 1	92.272 %	93.276 %	0.494 ppb	1.875 ppb	0.202 ppb	5.241 ppb	0.454 ppb	0.368 ppb	2.297 ppb
Concentration per Run 2	110.652 %	97.139 %	0.487 ppb	1.547 ppb	0.168 ppb	5.920 ppb	0.455 ppb	0.358 ppb	1.967 ppb
Concentration per Run 3	109.759 %	98.226 %	0.507 ppb	1.651 ppb	0.146 ppb	5.018 ppb	0.404 ppb	0.540 ppb	1.973 ppb
Concentration RSD	9.9 %	2.7 %	2.0 %	9.9 %	16.5 %	8.7 %	6.7 %	24.3 %	9.1 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	2.050 ppb	102.776 %	97.136 %	0.262 ppb	1.040 ppb	312.736 ppb	16.356 ppb	95.543 %	93.466 %
Concentration per Run 1	2.286 ppb	102.337 %	89.546 %	0.310 ppb	0.738 ppb	340.208 ppb	18.030 ppb	90.417 %	87.255 %
Concentration per Run 2	1.953 ppb	103.730 %	100.592 %	0.187 ppb	1.079 ppb	301.373 ppb	15.589 ppb	97.686 %	96.361 %
Concentration per Run 3	1.911 ppb	102.261 %	101.269 %	0.290 ppb	1.302 ppb	296.627 ppb	15.449 ppb	98.525 %	96.781 %
Concentration RSD	10.0 %	0.8 %	6.8 %	25.1 %	27.4 %	7.6 %	8.9 %	4.7 %	5.8 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	-0.001 ppb	0.005 ppb	101.015 %	97.922 %	0.631 ppb	27.845 ppb	106.791 %	101.003 %	107.630 %
Concentration per Run 1	-0.001 ppb	0.006 ppb	100.283 %	91.638 %	0.634 ppb	27.552 ppb	107.757 %	94.061 %	109.244 %
Concentration per Run 2	-0.001 ppb	0.006 ppb	100.715 %	101.674 %	0.648 ppb	28.188 ppb	106.259 %	102.463 %	104.929 %
Concentration per Run 3	0.000 ppb	0.004 ppb	102.048 %	100.454 %	0.611 ppb	27.794 ppb	106.356 %	106.485 %	108.717 %
Concentration RSD	119.9 %	21.2 %	0.9 %	5.6 %	3.0 %	1.2 %	0.8 %	6.3 %	2.2 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	106.329 %	0.033 ppb	0.017 ppb	103.939 %	99.922 %
Concentration per Run 1	99.876 %	0.034 ppb	0.017 ppb	102.063 %	96.319 %
Concentration per Run 2	108.411 %	0.032 ppb	0.017 ppb	103.959 %	98.404 %
Concentration per Run 3	110.701 %	0.032 ppb	0.016 ppb	105.795 %	105.042 %
Concentration RSD	5.4 %	3.9 %	2.5 %	1.8 %	4.6 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	155	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430219-03 6020SL	Rack	2		
Analysis started at:	6/10/2024 9:36:40 PM	Vial	51		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	87.555 %	78.681 %	0.010 ppb	133.565 ppb	16,672.100 ppb	13,865.626 ppb	0.553 ppb	18,339.561 ppb	147,193.762 ppb
Concentration per Run 1	87.589 %	79.733 %	0.013 ppb	134.867 ppb	17,077.201 ppb	14,475.911 ppb	-1.137 ppb	19,348.517 ppb	159,298.926 ppb
Concentration per Run 2	87.963 %	78.261 %	0.011 ppb	135.276 ppb	16,760.356 ppb	13,639.813 ppb	2.771 ppb	18,375.431 ppb	144,027.080 ppb
Concentration per Run 3	87.112 %	78.050 %	0.006 ppb	130.552 ppb	16,178.743 ppb	13,481.155 ppb	0.026 ppb	17,294.736 ppb	138,255.281 ppb
Concentration RSD	0.5 %	1.2 %	34.0 %	2.0 %	2.7 %	3.9 %	362.5 %	5.6 %	7.4 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	95.377 %	95.916 %	2.927 ppb	1.775 ppb	7.814 ppb	21.478 ppb	0.724 ppb	0.891 ppb	3.319 ppb
Concentration per Run 1	89.490 %	90.696 %	3.154 ppb	2.078 ppb	8.384 ppb	21.611 ppb	0.802 ppb	1.005 ppb	3.669 ppb
Concentration per Run 2	86.237 %	95.272 %	2.881 ppb	1.711 ppb	7.830 ppb	24.476 ppb	0.706 ppb	0.839 ppb	3.294 ppb
Concentration per Run 3	110.403 %	101.780 %	2.745 ppb	1.537 ppb	7.230 ppb	18.347 ppb	0.665 ppb	0.828 ppb	2.995 ppb
Concentration RSD	13.8 %	5.8 %	7.1 %	15.6 %	7.4 %	14.3 %	9.7 %	11.1 %	10.2 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.436 ppb	101.409 %	94.036 %	0.542 ppb	0.887 ppb	643.461 ppb	6.379 ppb	95.809 %	90.549 %
Concentration per Run 1	0.506 ppb	101.766 %	87.808 %	0.570 ppb	0.988 ppb	689.393 ppb	7.038 ppb	95.532 %	84.895 %
Concentration per Run 2	0.400 ppb	100.529 %	95.095 %	0.605 ppb	0.769 ppb	620.241 ppb	6.265 ppb	94.932 %	92.858 %
Concentration per Run 3	0.402 ppb	101.932 %	99.204 %	0.450 ppb	0.904 ppb	620.747 ppb	5.833 ppb	96.964 %	93.896 %
Concentration RSD	14.0 %	0.8 %	6.1 %	14.9 %	12.5 %	6.2 %	9.6 %	1.1 %	5.4 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	-0.001 ppb	0.017 ppb	97.925 %	94.893 %	1.113 ppb	74.365 ppb	103.125 %	99.589 %	102.418 %
Concentration per Run 1	-0.001 ppb	0.025 ppb	98.173 %	87.131 %	1.166 ppb	72.649 ppb	101.887 %	94.672 %	102.693 %
Concentration per Run 2	-0.001 ppb	0.014 ppb	100.020 %	98.107 %	1.086 ppb	74.945 ppb	104.290 %	101.127 %	102.444 %
Concentration per Run 3	-0.001 ppb	0.013 ppb	95.582 %	99.442 %	1.089 ppb	75.502 ppb	103.199 %	102.967 %	102.115 %
Concentration RSD	18.1 %	37.2 %	2.3 %	7.1 %	4.1 %	2.0 %	1.2 %	4.4 %	0.3 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	104.366 %	0.177 ppb	0.035 ppb	100.730 %	99.461 %
Concentration per Run 1	98.589 %	0.178 ppb	0.036 ppb	99.890 %	93.776 %
Concentration per Run 2	106.545 %	0.174 ppb	0.034 ppb	100.975 %	97.498 %
Concentration per Run 3	107.964 %	0.178 ppb	0.034 ppb	101.324 %	107.110 %
Concentration RSD	4.8 %	1.5 %	2.0 %	0.7 %	6.9 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	156	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430219-05 6020SL	Rack	2		
Analysis started at:	6/10/2024 9:41:23 PM	Vial	52		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	90.410 %	84.011 %	0.030 ppb	16.399 ppb	6,635.289 ppb	1,789.356 ppb	4.579 ppb	1,588.614 ppb	13,161.006 ppb
Concentration per Run 1	90.581 %	83.520 %	0.032 ppb	16.742 ppb	6,868.308 ppb	1,861.428 ppb	5.365 ppb	1,644.671 ppb	13,758.922 ppb
Concentration per Run 2	89.821 %	85.203 %	0.026 ppb	16.024 ppb	6,537.339 ppb	1,722.184 ppb	4.580 ppb	1,533.850 ppb	13,349.572 ppb
Concentration per Run 3	90.828 %	83.310 %	0.032 ppb	16.432 ppb	6,500.221 ppb	1,784.457 ppb	3.793 ppb	1,587.320 ppb	12,374.523 ppb
Concentration RSD	0.6 %	1.2 %	11.3 %	2.2 %	3.1 %	3.9 %	17.2 %	3.5 %	5.4 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	98.438 %	95.673 %	0.014 ppb	0.323 ppb	0.734 ppb	2.742 ppb	0.041 ppb	1.486 ppb	0.169 ppb
Concentration per Run 1	91.313 %	91.443 %	0.009 ppb	0.361 ppb	0.780 ppb	2.815 ppb	0.033 ppb	1.505 ppb	0.171 ppb
Concentration per Run 2	111.857 %	97.577 %	0.002 ppb	0.296 ppb	0.690 ppb	1.881 ppb	0.045 ppb	1.443 ppb	0.196 ppb
Concentration per Run 3	92.143 %	97.999 %	0.032 ppb	0.312 ppb	0.733 ppb	3.530 ppb	0.044 ppb	1.508 ppb	0.141 ppb
Concentration RSD	11.8 %	3.8 %	107.4 %	10.5 %	6.1 %	30.2 %	16.5 %	2.5 %	16.0 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.414 ppb	104.241 %	98.728 %	0.039 ppb	1.046 ppb	63.250 ppb	0.061 ppb	100.652 %	96.162 %
Concentration per Run 1	0.497 ppb	104.387 %	93.213 %	0.082 ppb	0.901 ppb	68.373 ppb	0.063 ppb	101.714 %	90.808 %
Concentration per Run 2	0.312 ppb	105.175 %	102.151 %	0.017 ppb	1.295 ppb	60.798 ppb	0.058 ppb	99.872 %	96.680 %
Concentration per Run 3	0.434 ppb	103.161 %	100.822 %	0.017 ppb	0.943 ppb	60.580 ppb	0.063 ppb	100.370 %	100.998 %
Concentration RSD	22.7 %	1.0 %	4.9 %	97.6 %	20.7 %	7.0 %	4.5 %	0.9 %	5.3 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.017 ppb	105.634 %	100.030 %	0.110 ppb	7.329 ppb	107.220 %	103.470 %	108.490 %
Concentration per Run 1	0.001 ppb	0.014 ppb	107.082 %	93.685 %	0.094 ppb	7.270 ppb	107.916 %	97.597 %	110.114 %
Concentration per Run 2	-0.001 ppb	0.015 ppb	106.185 %	103.146 %	0.114 ppb	7.322 ppb	108.168 %	105.577 %	109.025 %
Concentration per Run 3	0.000 ppb	0.022 ppb	103.635 %	103.260 %	0.123 ppb	7.396 ppb	105.577 %	107.235 %	106.331 %
Concentration RSD	254.7 %	26.7 %	1.7 %	5.5 %	13.3 %	0.9 %	1.3 %	5.0 %	1.8 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	106.195 %	0.018 ppb	0.005 ppb	106.979 %	105.744 %
Concentration per Run 1	101.251 %	0.018 ppb	0.005 ppb	105.900 %	99.647 %
Concentration per Run 2	109.423 %	0.019 ppb	0.006 ppb	109.535 %	106.420 %
Concentration per Run 3	107.910 %	0.017 ppb	0.005 ppb	105.502 %	111.166 %
Concentration RSD	4.1 %	5.4 %	9.0 %	2.1 %	5.5 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	157	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430219-06 6020SL	Rack	2		
Analysis started at:	6/10/2024 9:46:06 PM	Vial	53		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	87.694 %	82.609 %	0.013 ppb	80.040 ppb	31,337.474 ppb	22,880.991 ppb	9.947 ppb	33,842.787 ppb	152,961.473 ppb
Concentration per Run 1	87.709 %	79.313 %	0.008 ppb	79.343 ppb	32,617.455 ppb	23,917.399 ppb	7.757 ppb	34,592.374 ppb	158,461.423 ppb
Concentration per Run 2	87.269 %	82.468 %	0.013 ppb	80.932 ppb	31,551.236 ppb	22,931.573 ppb	7.096 ppb	34,165.882 ppb	151,886.847 ppb
Concentration per Run 3	88.103 %	86.045 %	0.016 ppb	79.845 ppb	29,843.730 ppb	21,794.002 ppb	14.989 ppb	32,770.104 ppb	148,536.150 ppb
Concentration RSD	0.5 %	4.1 %	31.3 %	1.0 %	4.5 %	4.6 %	44.0 %	2.8 %	3.3 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	109.397 %	93.812 %	0.390 ppb	1.139 ppb	4,503.016 ppb	22.972 ppb	0.572 ppb	0.715 ppb	1.192 ppb
Concentration per Run 1	110.324 %	91.849 %	0.419 ppb	1.201 ppb	4,676.963 ppb	24.360 ppb	0.615 ppb	0.853 ppb	1.248 ppb
Concentration per Run 2	106.960 %	92.579 %	0.411 ppb	1.127 ppb	4,468.026 ppb	22.714 ppb	0.560 ppb	0.647 ppb	1.180 ppb
Concentration per Run 3	110.906 %	97.009 %	0.342 ppb	1.090 ppb	4,364.058 ppb	21.841 ppb	0.541 ppb	0.645 ppb	1.149 ppb
Concentration RSD	1.9 %	3.0 %	10.9 %	5.0 %	3.5 %	5.6 %	6.8 %	16.8 %	4.2 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.361 ppb	105.100 %	95.352 %	0.274 ppb	0.342 ppb	217.680 ppb	0.193 ppb	89.575 %	89.800 %
Concentration per Run 1	0.429 ppb	103.344 %	89.901 %	0.249 ppb	0.377 ppb	228.915 ppb	0.175 ppb	87.605 %	84.651 %
Concentration per Run 2	0.355 ppb	105.876 %	99.458 %	0.271 ppb	0.272 ppb	207.922 ppb	0.185 ppb	90.688 %	92.408 %
Concentration per Run 3	0.300 ppb	106.080 %	96.697 %	0.301 ppb	0.377 ppb	216.203 ppb	0.218 ppb	90.430 %	92.341 %
Concentration RSD	17.9 %	1.5 %	5.2 %	9.6 %	17.6 %	4.9 %	11.5 %	1.9 %	5.0 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.067 ppb	99.539 %	94.428 %	0.161 ppb	66.313 ppb	103.196 %	99.106 %	105.252 %
Concentration per Run 1	0.000 ppb	0.069 ppb	100.754 %	89.079 %	0.162 ppb	65.696 ppb	103.722 %	91.492 %	103.483 %
Concentration per Run 2	-0.001 ppb	0.066 ppb	97.727 %	96.312 %	0.155 ppb	66.364 ppb	103.411 %	102.633 %	107.261 %
Concentration per Run 3	0.000 ppb	0.066 ppb	100.135 %	97.894 %	0.165 ppb	66.878 ppb	102.455 %	103.192 %	105.012 %
Concentration RSD	171.6 %	2.5 %	1.6 %	5.0 %	3.2 %	0.9 %	0.6 %	6.7 %	1.8 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	103.835 %	0.116 ppb	0.019 ppb	97.037 %	97.171 %
Concentration per Run 1	93.744 %	0.116 ppb	0.018 ppb	96.483 %	92.464 %
Concentration per Run 2	105.836 %	0.120 ppb	0.021 ppb	94.237 %	98.129 %
Concentration per Run 3	111.924 %	0.111 ppb	0.018 ppb	100.393 %	100.920 %
Concentration RSD	8.9 %	3.6 %	9.1 %	3.2 %	4.4 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	158	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430219-07 6020SL	Rack	2		
Analysis started at:	6/10/2024 9:50:49 PM	Vial	54		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.213 %	84.993 %	0.008 ppb	120.931 ppb	22,503.921 ppb	12,131.045 ppb	0.740 ppb	11,947.181 ppb	113,050.041 ppb
Concentration per Run 1	89.027 %	86.045 %	0.009 ppb	121.511 ppb	23,197.987 ppb	12,447.396 ppb	0.951 ppb	12,605.193 ppb	118,237.336 ppb
Concentration per Run 2	89.667 %	78.471 %	0.006 ppb	120.879 ppb	23,030.930 ppb	12,423.997 ppb	0.552 ppb	11,765.991 ppb	112,832.259 ppb
Concentration per Run 3	88.945 %	90.463 %	0.009 ppb	120.403 ppb	21,282.845 ppb	11,521.742 ppb	0.717 ppb	11,470.361 ppb	108,080.529 ppb
Concentration RSD	0.4 %	7.1 %	25.3 %	0.5 %	4.7 %	4.4 %	27.1 %	4.9 %	4.5 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	108.426 %	95.332 %	0.341 ppb	0.488 ppb	80.832 ppb	7.342 ppb	0.281 ppb	0.598 ppb	1.312 ppb
Concentration per Run 1	106.737 %	91.394 %	0.376 ppb	0.535 ppb	85.773 ppb	8.211 ppb	0.287 ppb	0.721 ppb	1.300 ppb
Concentration per Run 2	108.979 %	96.392 %	0.350 ppb	0.457 ppb	77.812 ppb	7.907 ppb	0.266 ppb	0.500 ppb	1.373 ppb
Concentration per Run 3	109.563 %	98.210 %	0.298 ppb	0.473 ppb	78.911 ppb	5.909 ppb	0.291 ppb	0.575 ppb	1.263 ppb
Concentration RSD	1.4 %	3.7 %	11.7 %	8.5 %	5.3 %	17.0 %	4.8 %	18.8 %	4.3 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.364 ppb	103.689 %	97.317 %	0.184 ppb	0.265 ppb	408.509 ppb	0.158 ppb	93.116 %	90.553 %
Concentration per Run 1	0.387 ppb	103.480 %	93.245 %	0.211 ppb	0.264 ppb	426.326 ppb	0.171 ppb	89.253 %	88.086 %
Concentration per Run 2	0.371 ppb	103.417 %	99.361 %	0.156 ppb	0.255 ppb	395.210 ppb	0.166 ppb	95.701 %	90.810 %
Concentration per Run 3	0.334 ppb	104.170 %	99.345 %	0.184 ppb	0.277 ppb	403.990 ppb	0.138 ppb	94.395 %	92.762 %
Concentration RSD	7.5 %	0.4 %	3.6 %	15.0 %	4.2 %	3.9 %	11.3 %	3.7 %	2.6 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.012 ppb	102.001 %	97.955 %	0.108 ppb	72.656 ppb	104.651 %	101.170 %	104.983 %
Concentration per Run 1	-0.001 ppb	0.012 ppb	101.628 %	92.572 %	0.116 ppb	71.760 ppb	104.706 %	95.762 %	105.741 %
Concentration per Run 2	-0.001 ppb	0.015 ppb	102.328 %	100.070 %	0.099 ppb	73.670 ppb	104.829 %	103.301 %	104.571 %
Concentration per Run 3	0.000 ppb	0.011 ppb	102.047 %	101.224 %	0.107 ppb	72.539 ppb	104.419 %	104.447 %	104.637 %
Concentration RSD	171.1 %	19.7 %	0.3 %	4.8 %	7.9 %	1.3 %	0.2 %	4.7 %	0.6 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	106.508 %	0.265 ppb	0.005 ppb	100.341 %	99.743 %
Concentration per Run 1	101.273 %	0.257 ppb	0.005 ppb	99.195 %	92.470 %
Concentration per Run 2	110.613 %	0.278 ppb	0.006 ppb	99.182 %	101.079 %
Concentration per Run 3	107.638 %	0.260 ppb	0.004 ppb	102.647 %	105.681 %
Concentration RSD	4.5 %	4.4 %	17.3 %	2.0 %	6.7 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	159	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430219-08 6020SL	Rack	2		
Analysis started at:	6/10/2024 9:55:33 PM	Vial	55		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	90.107 %	82.048 %	0.008 ppb	36.683 ppb	31,784.768 ppb	4,259.384 ppb	1.998 ppb	24,400.962 ppb	41,485.042 ppb
Concentration per Run 1	89.475 %	79.313 %	0.006 ppb	36.587 ppb	33,130.814 ppb	4,493.828 ppb	1.949 ppb	25,324.430 ppb	43,707.163 ppb
Concentration per Run 2	90.942 %	79.733 %	0.009 ppb	36.671 ppb	32,077.751 ppb	4,234.610 ppb	-0.743 ppb	24,745.817 ppb	41,849.936 ppb
Concentration per Run 3	89.903 %	87.097 %	0.008 ppb	36.791 ppb	30,145.738 ppb	4,049.714 ppb	4.789 ppb	23,132.639 ppb	38,898.026 ppb
Concentration RSD	0.8 %	5.3 %	16.5 %	0.3 %	4.8 %	5.2 %	138.4 %	4.7 %	5.8 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	110.268 %	95.916 %	0.271 ppb	0.348 ppb	10.733 ppb	14.056 ppb	0.209 ppb	6.560 ppb	2.520 ppb
Concentration per Run 1	112.565 %	92.562 %	0.246 ppb	0.357 ppb	11.452 ppb	15.036 ppb	0.241 ppb	7.270 ppb	2.862 ppb
Concentration per Run 2	108.810 %	94.623 %	0.288 ppb	0.369 ppb	10.554 ppb	11.656 ppb	0.197 ppb	6.179 ppb	2.398 ppb
Concentration per Run 3	109.429 %	100.563 %	0.278 ppb	0.318 ppb	10.192 ppb	15.475 ppb	0.189 ppb	6.231 ppb	2.300 ppb
Concentration RSD	1.8 %	4.3 %	8.1 %	7.8 %	6.0 %	14.9 %	13.4 %	9.4 %	11.9 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.503 ppb	107.325 %	99.153 %	0.171 ppb	0.407 ppb	153.680 ppb	2.131 ppb	99.209 %	94.905 %
Concentration per Run 1	0.600 ppb	105.320 %	94.000 %	0.207 ppb	0.352 ppb	163.156 ppb	2.279 ppb	100.727 %	89.163 %
Concentration per Run 2	0.455 ppb	108.159 %	102.515 %	0.146 ppb	0.494 ppb	148.558 ppb	2.113 ppb	98.536 %	97.336 %
Concentration per Run 3	0.453 ppb	108.496 %	100.942 %	0.159 ppb	0.375 ppb	149.326 ppb	2.001 ppb	98.365 %	98.216 %
Concentration RSD	16.8 %	1.6 %	4.6 %	18.9 %	18.7 %	5.3 %	6.6 %	1.3 %	5.3 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.002 ppb	0.010 ppb	101.651 %	98.325 %	0.104 ppb	64.080 ppb	108.209 %	103.280 %	110.160 %
Concentration per Run 1	0.003 ppb	0.010 ppb	101.773 %	91.247 %	0.096 ppb	63.684 ppb	107.948 %	97.155 %	111.496 %
Concentration per Run 2	0.003 ppb	0.011 ppb	102.048 %	100.168 %	0.105 ppb	63.765 ppb	109.586 %	105.075 %	108.512 %
Concentration per Run 3	0.001 ppb	0.008 ppb	101.133 %	103.560 %	0.111 ppb	64.791 ppb	107.094 %	107.611 %	110.472 %
Concentration RSD	49.1 %	13.9 %	0.5 %	6.5 %	7.4 %	1.0 %	1.2 %	5.3 %	1.4 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.573 %	0.185 ppb	0.008 ppb	103.228 %	102.392 %
Concentration per Run 1	102.359 %	0.179 ppb	0.008 ppb	102.076 %	95.056 %
Concentration per Run 2	108.187 %	0.187 ppb	0.007 ppb	102.752 %	102.676 %
Concentration per Run 3	112.173 %	0.190 ppb	0.009 ppb	104.856 %	109.442 %
Concentration RSD	4.6 %	2.9 %	9.7 %	1.4 %	7.0 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index:	160	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430219-09 6020SL	Rack	2		
Analysis started at:	6/10/2024 10:00:16 PM	Vial	56		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	89.097 %	82.959 %	0.009 ppb	37.336 ppb	32,225.613 ppb	4,313.334 ppb	2.232 ppb	24,514.998 ppb	42,979.907 ppb
Concentration per Run 1	88.422 %	74.474 %	0.009 ppb	37.162 ppb	35,546.314 ppb	4,691.963 ppb	3.460 ppb	25,426.826 ppb	46,558.166 ppb
Concentration per Run 2	89.293 %	92.777 %	0.010 ppb	36.810 ppb	29,631.851 ppb	4,037.695 ppb	1.147 ppb	24,240.723 ppb	41,793.548 ppb
Concentration per Run 3	89.577 %	81.627 %	0.008 ppb	38.036 ppb	31,498.675 ppb	4,210.344 ppb	2.087 ppb	23,877.444 ppb	40,588.008 ppb
Concentration RSD	0.7 %	11.1 %	13.6 %	1.7 %	9.4 %	7.9 %	52.1 %	3.3 %	7.3 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	104.724 %	95.867 %	0.286 ppb	0.366 ppb	10.845 ppb	2.264 ppb	0.187 ppb	0.645 ppb	2.579 ppb
Concentration per Run 1	110.146 %	92.124 %	0.304 ppb	0.434 ppb	11.747 ppb	2.508 ppb	0.191 ppb	0.706 ppb	2.822 ppb
Concentration per Run 2	111.463 %	95.159 %	0.301 ppb	0.308 ppb	10.512 ppb	2.362 ppb	0.182 ppb	0.641 ppb	2.445 ppb
Concentration per Run 3	92.564 %	100.319 %	0.253 ppb	0.356 ppb	10.278 ppb	1.921 ppb	0.187 ppb	0.589 ppb	2.471 ppb
Concentration RSD	10.1 %	4.3 %	10.0 %	17.3 %	7.3 %	13.5 %	2.4 %	9.1 %	8.2 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.188 ppb	106.330 %	97.165 %	0.274 ppb	0.506 ppb	158.967 ppb	2.239 ppb	95.128 %	94.045 %
Concentration per Run 1	0.195 ppb	104.609 %	89.701 %	0.238 ppb	0.625 ppb	170.939 ppb	2.563 ppb	96.805 %	88.689 %
Concentration per Run 2	0.192 ppb	105.749 %	100.213 %	0.327 ppb	0.561 ppb	150.458 ppb	2.145 ppb	95.713 %	95.460 %
Concentration per Run 3	0.177 ppb	108.631 %	101.580 %	0.256 ppb	0.334 ppb	155.502 ppb	2.010 ppb	92.866 %	97.986 %
Concentration RSD	4.9 %	1.9 %	6.7 %	17.0 %	30.1 %	6.7 %	12.9 %	2.1 %	5.1 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.000 ppb	0.010 ppb	100.650 %	97.775 %	0.622 ppb	63.463 ppb	108.213 %	102.518 %	106.730 %
Concentration per Run 1	0.001 ppb	0.013 ppb	102.308 %	90.012 %	0.654 ppb	62.648 ppb	110.032 %	98.485 %	106.113 %
Concentration per Run 2	-0.001 ppb	0.008 ppb	100.363 %	100.978 %	0.586 ppb	64.354 ppb	105.269 %	103.801 %	105.068 %
Concentration per Run 3	0.000 ppb	0.008 ppb	99.280 %	102.335 %	0.627 ppb	63.388 ppb	109.338 %	105.267 %	109.008 %
Concentration RSD	4,112.7 %	27.2 %	1.5 %	6.9 %	5.5 %	1.3 %	2.4 %	3.5 %	1.9 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	108.596 %	0.183 ppb	0.008 ppb	104.591 %	103.375 %
Concentration per Run 1	101.976 %	0.179 ppb	0.008 ppb	105.153 %	97.846 %
Concentration per Run 2	112.083 %	0.183 ppb	0.008 ppb	104.328 %	104.771 %
Concentration per Run 3	111.730 %	0.188 ppb	0.009 ppb	104.292 %	107.510 %
Concentration RSD	5.3 %	2.4 %	4.7 %	0.5 %	4.8 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 161
Analysis label: CCV
Analysis started at: 6/10/2024 10:04:59 PM
User name ALPHALAB\ICPMSRQ
Rack 0
Vial 9
Comment <Comment>

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	90.319 %	85.554 %	58.574 ppb	60.102 ppb	6,067.571 ppb	6,123.929 ppb	63.782 ppb	5,867.454 ppb	6,543.145 ppb
Concentration per Run 1	91.387 %	79.733 %	58.061 ppb	58.910 ppb	6,446.072 ppb	6,626.935 ppb	74.850 ppb	6,072.656 ppb	6,934.248 ppb
Concentration per Run 2	89.859 %	91.304 %	58.742 ppb	60.887 ppb	5,746.801 ppb	5,689.089 ppb	50.096 ppb	5,689.974 ppb	6,349.020 ppb
Concentration per Run 3	89.711 %	85.624 %	58.919 ppb	60.509 ppb	6,009.841 ppb	6,055.763 ppb	66.400 ppb	5,839.733 ppb	6,346.166 ppb
Recovery Percentage 1			97.623 %	100.170 %	101.126 %	102.065 %	106.304 %	97.791 %	109.052 %
Concentration RSD	1.0 %	6.8 %	0.8 %	1.7 %	5.8 %	7.7 %	19.7 %	3.3 %	5.2 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	103.459 %	99.638 %	62.836 ppb	63.448 ppb	60.964 ppb	6,116.793 ppb	61.326 ppb	62.674 ppb	61.134 ppb
Concentration per Run 1	108.988 %	96.311 %	67.278 ppb	67.713 ppb	65.157 ppb	6,548.640 ppb	67.292 ppb	69.361 ppb	67.212 ppb
Concentration per Run 2	91.867 %	101.536 %	60.795 ppb	62.377 ppb	59.767 ppb	5,985.441 ppb	58.369 ppb	60.271 ppb	58.093 ppb
Concentration per Run 3	109.521 %	101.066 %	60.435 ppb	60.253 ppb	57.969 ppb	5,816.300 ppb	58.316 ppb	58.389 ppb	58.095 ppb
Recovery Percentage 1			104.727 %	105.747 %	101.607 %	101.947 %	102.210 %	104.456 %	101.889 %
Concentration RSD	9.7 %	2.9 %	6.1 %	6.1 %	6.1 %	6.3 %	8.4 %	9.4 %	8.6 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	61.111 ppb	101.397 %	95.723 %	60.315 ppb	63.268 ppb	61.871 ppb	60.322 ppb	99.310 %	96.117 %
Concentration per Run 1	65.281 ppb	100.935 %	88.890 %	64.914 ppb	69.006 ppb	67.029 ppb	65.134 ppb	100.370 %	88.423 %
Concentration per Run 2	59.993 ppb	100.546 %	96.373 %	59.401 ppb	60.739 ppb	60.068 ppb	57.671 ppb	99.567 %	98.920 %
Concentration per Run 3	58.057 ppb	102.709 %	101.905 %	56.631 ppb	60.060 ppb	58.517 ppb	58.161 ppb	97.993 %	101.008 %
Recovery Percentage 1	101.851 %			100.526 %	105.447 %	103.119 %	100.537 %		
Concentration RSD	6.1 %	1.1 %	6.8 %	7.0 %	7.9 %	7.3 %	6.9 %	1.2 %	7.0 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	61.527 ppb	62.387 ppb	103.132 %	100.941 %	57.019 ppb	60.447 ppb	107.493 %	104.589 %	106.429 %
Concentration per Run 1	67.266 ppb	68.280 ppb	103.091 %	93.042 %	61.700 ppb	59.205 ppb	105.459 %	96.947 %	106.491 %
Concentration per Run 2	59.084 ppb	59.782 ppb	100.531 %	104.345 %	55.199 ppb	62.255 ppb	106.976 %	106.380 %	104.561 %
Concentration per Run 3	58.230 ppb	59.100 ppb	105.773 %	105.437 %	54.158 ppb	59.882 ppb	110.045 %	110.439 %	108.234 %
Recovery Percentage 1	102.544 %	103.979 %			95.031 %	100.745 %			
Concentration RSD	8.1 %	8.2 %	2.5 %	6.8 %	7.2 %	2.6 %	2.2 %	6.6 %	1.7 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	109.733 %	59.551 ppb	59.845 ppb	107.324 %	108.029 %
Concentration per Run 1	102.381 %	58.834 ppb	59.178 ppb	108.146 %	101.312 %
Concentration per Run 2	112.120 %	59.584 ppb	60.709 ppb	107.225 %	110.940 %
Concentration per Run 3	114.697 %	60.236 ppb	59.649 ppb	106.601 %	111.835 %
Recovery Percentage 1		99.252 %	99.742 %		
Concentration RSD	5.9 %	1.2 %	1.3 %	0.7 %	5.4 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 162 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: CCB Rack 0
Analysis started at: 6/10/2024 10:09:46 PM Vial 10

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	92.809 %	85.273 %	0.018 ppb	0.496 ppb	-4.960 ppb	0.344 ppb	-1.643 ppb	-17.030 ppb	6.483 ppb
Concentration per Run 1	94.069 %	80.575 %	0.020 ppb	0.519 ppb	-2.719 ppb	0.690 ppb	-1.584 ppb	-19.368 ppb	8.310 ppb
Concentration per Run 2	92.413 %	83.731 %	0.015 ppb	0.481 ppb	-5.297 ppb	-0.101 ppb	-1.232 ppb	-13.569 ppb	10.768 ppb
Concentration per Run 3	91.947 %	91.515 %	0.018 ppb	0.488 ppb	-6.865 ppb	0.445 ppb	-2.112 ppb	-18.153 ppb	0.369 ppb
Recovery Percentage 1			3.544 %	4.959 %	-4.960 %	0.492 %	-16.426 %	-17.030 %	6.483 %
Concentration RSD	1.2 %	6.6 %	13.1 %	4.0 %	42.2 %	117.6 %	27.0 %	18.0 %	83.8 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	106.266 %	94.185 %	0.025 ppb	-0.021 ppb	0.078 ppb	3.767 ppb	0.007 ppb	-0.024 ppb	-0.006 ppb
Concentration per Run 1	107.910 %	89.966 %	0.047 ppb	-0.015 ppb	0.093 ppb	3.210 ppb	0.008 ppb	-0.018 ppb	0.003 ppb
Concentration per Run 2	104.531 %	96.230 %	0.011 ppb	-0.026 ppb	0.075 ppb	4.652 ppb	0.006 ppb	-0.017 ppb	-0.008 ppb
Concentration per Run 3	106.357 %	96.360 %	0.016 ppb	-0.023 ppb	0.068 ppb	3.438 ppb	0.007 ppb	-0.037 ppb	-0.013 ppb
Recovery Percentage 1			0.494 %	-2.136 %	7.834 %	7.533 %	1.386 %	-1.192 %	-0.606 %
Concentration RSD	1.6 %	3.9 %	78.9 %	26.5 %	16.5 %	20.6 %	14.4 %	46.9 %	130.0 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.010 ppb	99.846 %	95.579 %	0.036 ppb	0.036 ppb	-0.002 ppb	0.191 ppb	102.227 %	97.703 %
Concentration per Run 1	0.062 ppb	101.033 %	90.587 %	0.031 ppb	-0.008 ppb	-0.001 ppb	0.190 ppb	105.041 %	91.041 %
Concentration per Run 2	0.019 ppb	100.175 %	97.831 %	0.065 ppb	0.029 ppb	0.007 ppb	0.164 ppb	99.816 %	100.709 %
Concentration per Run 3	-0.051 ppb	98.329 %	98.318 %	0.012 ppb	0.088 ppb	-0.012 ppb	0.218 ppb	101.823 %	101.361 %
Recovery Percentage 1	0.202 %			7.148 %	0.722 %	-0.466 %	9.530 %		
Concentration RSD	561.6 %	1.4 %	4.5 %	74.3 %	134.0 %	407.0 %	14.2 %	2.6 %	5.9 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.004 ppb	0.004 ppb	104.793 %	101.155 %	1.236 ppb	0.013 ppb	109.974 %	104.407 %	108.327 %
Concentration per Run 1	0.004 ppb	0.006 ppb	106.260 %	93.030 %	1.175 ppb	0.013 ppb	111.338 %	97.749 %	107.409 %
Concentration per Run 2	0.006 ppb	0.003 ppb	102.992 %	105.971 %	1.254 ppb	0.013 ppb	109.331 %	105.930 %	109.651 %
Concentration per Run 3	0.004 ppb	0.005 ppb	105.128 %	104.462 %	1.280 ppb	0.011 ppb	109.253 %	109.541 %	107.919 %
Recovery Percentage 1	1.114 %				30.911 %	2.511 %			
Concentration RSD	21.9 %	32.8 %	1.6 %	7.0 %	4.4 %	9.1 %	1.1 %	5.8 %	1.1 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	108.817 %	0.073 ppb	0.007 ppb	108.572 %	109.711 %
Concentration per Run 1	102.871 %	0.077 ppb	0.008 ppb	110.753 %	102.925 %
Concentration per Run 2	111.225 %	0.077 ppb	0.007 ppb	105.496 %	111.623 %
Concentration per Run 3	112.354 %	0.064 ppb	0.006 ppb	109.466 %	114.584 %
Recovery Percentage 1		7.287 %	0.706 %		
Concentration RSD	4.8 %	10.2 %	12.0 %	2.5 %	5.5 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 163
Analysis label: CCV
Analysis started at: 6/10/2024 10:14:33 PM
User name ALPHALAB\ICPMSRQ
Rack 0
Vial 9
Comment <Comment>

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	90.192 %	76.998 %	57.473 ppb	59.627 ppb	6,396.482 ppb	6,460.174 ppb	70.535 ppb	5,976.838 ppb	6,668.592 ppb
Concentration per Run 1	90.178 %	76.157 %	57.384 ppb	59.820 ppb	6,692.247 ppb	6,823.215 ppb	77.367 ppb	6,292.540 ppb	6,704.850 ppb
Concentration per Run 2	90.387 %	76.998 %	57.133 ppb	59.358 ppb	6,450.874 ppb	6,513.498 ppb	73.850 ppb	6,029.413 ppb	6,860.744 ppb
Concentration per Run 3	90.012 %	77.840 %	57.903 ppb	59.702 ppb	6,046.325 ppb	6,043.809 ppb	60.389 ppb	5,608.561 ppb	6,440.182 ppb
Recovery Percentage 1			95.788 %	99.378 %	106.608 %	107.670 %	117.559 %	99.614 %	111.143 %
Concentration RSD	0.2 %	1.1 %	0.7 %	0.4 %	5.1 %	6.1 %	12.7 %	5.8 %	3.2 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	108.059 %	96.208 %	64.444 ppb	63.951 ppb	61.147 ppb	6,182.209 ppb	61.653 ppb	63.734 ppb	60.007 ppb
Concentration per Run 1	108.033 %	91.556 %	69.107 ppb	69.796 ppb	66.178 ppb	6,872.819 ppb	66.355 ppb	70.351 ppb	66.482 ppb
Concentration per Run 2	109.238 %	95.240 %	63.433 ppb	62.008 ppb	59.730 ppb	6,070.641 ppb	61.933 ppb	61.453 ppb	58.537 ppb
Concentration per Run 3	106.907 %	101.828 %	60.794 ppb	60.049 ppb	57.532 ppb	5,603.168 ppb	56.671 ppb	59.400 ppb	55.002 ppb
Recovery Percentage 1			107.407 %	106.585 %	101.911 %	103.037 %	102.755 %	106.224 %	100.012 %
Concentration RSD	1.1 %	5.4 %	6.6 %	8.1 %	7.3 %	10.4 %	7.9 %	9.1 %	9.8 %

Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	60.487 ppb	100.356 %	95.304 %	60.006 ppb	61.739 ppb	61.403 ppb	59.365 ppb	100.842 %	93.817 %
Concentration per Run 1	66.418 ppb	100.065 %	88.354 %	64.838 ppb	65.353 ppb	66.254 ppb	65.810 ppb	100.955 %	87.699 %
Concentration per Run 2	58.563 ppb	101.878 %	98.261 %	57.815 ppb	58.582 ppb	58.722 ppb	56.033 ppb	99.652 %	96.461 %
Concentration per Run 3	56.479 ppb	99.125 %	99.297 %	57.366 ppb	61.282 ppb	59.233 ppb	56.251 ppb	101.917 %	97.290 %
Recovery Percentage 1	100.811 %			100.011 %	102.898 %	102.338 %	98.941 %		
Concentration RSD	8.7 %	1.4 %	6.3 %	7.0 %	5.5 %	6.9 %	9.4 %	1.1 %	5.7 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	60.980 ppb	62.079 ppb	103.384 %	99.375 %	57.529 ppb	59.244 ppb	107.012 %	100.753 %	106.815 %
Concentration per Run 1	66.013 ppb	68.647 ppb	104.216 %	91.336 %	63.175 ppb	57.381 ppb	108.662 %	92.305 %	108.426 %
Concentration per Run 2	58.747 ppb	59.031 ppb	103.231 %	101.980 %	55.727 ppb	59.768 ppb	105.042 %	103.270 %	105.108 %
Concentration per Run 3	58.180 ppb	58.559 ppb	102.706 %	104.809 %	53.685 ppb	60.582 ppb	107.333 %	106.685 %	106.912 %
Recovery Percentage 1	101.633 %	103.465 %			95.881 %	98.740 %			
Concentration RSD	7.2 %	9.2 %	0.7 %	7.1 %	8.7 %	2.8 %	1.7 %	7.5 %	1.6 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	106.348 %	59.563 ppb	60.159 ppb	106.938 %	103.602 %
Concentration per Run 1	98.854 %	59.930 ppb	59.181 ppb	106.192 %	96.549 %
Concentration per Run 2	108.956 %	58.659 ppb	60.878 ppb	107.580 %	104.930 %
Concentration per Run 3	111.234 %	60.100 ppb	60.420 ppb	107.041 %	109.329 %
Recovery Percentage 1		99.272 %	100.266 %		
Concentration RSD	6.2 %	1.3 %	1.5 %	0.7 %	6.3 %

Alpha ICPMSRQ Data with SRD

6/11/2024 7:33:43 AM

Analysis index: 164
Analysis label: CCB
Analysis started at: 6/10/2024 10:19:19 PM
User name ALPHALAB\ICPMSRQ
Rack 0
Vial 10
Comment <Comment>

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	11B (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)
Concentration average	92.334 %	83.240 %	0.022 ppb	0.461 ppb	-7.179 ppb	0.666 ppb	-0.275 ppb	-20.836 ppb	5.725 ppb
Concentration per Run 1	93.705 %	74.684 %	0.022 ppb	0.476 ppb	-2.444 ppb	2.020 ppb	-1.094 ppb	-16.164 ppb	0.373 ppb
Concentration per Run 2	91.635 %	86.886 %	0.025 ppb	0.464 ppb	-10.000 ppb	0.147 ppb	-0.074 ppb	-19.085 ppb	13.362 ppb
Concentration per Run 3	91.662 %	88.149 %	0.020 ppb	0.445 ppb	-9.094 ppb	-0.168 ppb	0.343 ppb	-27.260 ppb	3.441 ppb
Recovery Percentage 1			4.479 %	4.615 %	-7.179 %	0.952 %	-2.752 %	-20.836 %	5.725 %
Concentration RSD	1.3 %	8.9 %	9.5 %	3.4 %	57.5 %	177.6 %	268.6 %	27.6 %	118.6 %

Category	45Sc (STD_DEF)	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)
Concentration average	105.322 %	96.690 %	0.002 ppb	0.008 ppb	0.081 ppb	3.936 ppb	0.009 ppb	0.019 ppb	0.004 ppb
Concentration per Run 1	105.852 %	91.345 %	-0.004 ppb	0.027 ppb	0.113 ppb	4.350 ppb	0.015 ppb	0.033 ppb	0.031 ppb
Concentration per Run 2	106.142 %	100.173 %	0.026 ppb	-0.006 ppb	0.060 ppb	3.898 ppb	0.007 ppb	0.035 ppb	-0.012 ppb
Concentration per Run 3	103.972 %	98.550 %	-0.015 ppb	0.001 ppb	0.069 ppb	3.558 ppb	0.005 ppb	-0.012 ppb	-0.006 ppb
Recovery Percentage 1			0.050 %	0.758 %	8.075 %	7.871 %	1.748 %	0.937 %	0.416 %
Concentration RSD	1.1 %	4.9 %	858.6 %	230.7 %	34.8 %	10.1 %	63.0 %	140.5 %	552.8 %

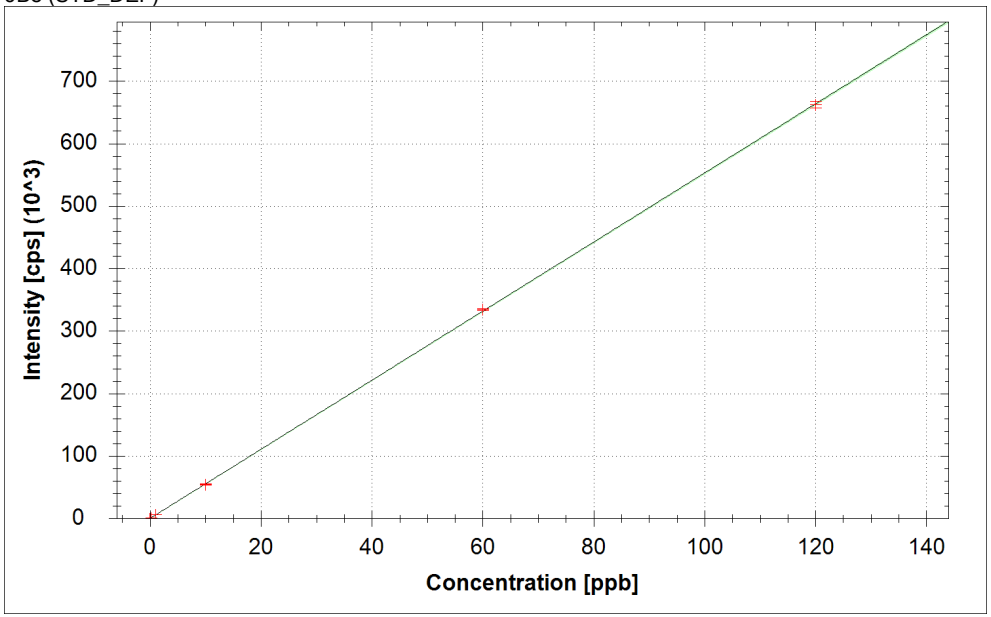
Category	66Zn (KED_DEF)	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)
Concentration average	0.007 ppb	100.029 %	96.326 %	0.039 ppb	0.089 ppb	0.020 ppb	0.215 ppb	102.889 %	97.223 %
Concentration per Run 1	0.029 ppb	100.516 %	89.001 %	0.031 ppb	0.030 ppb	0.031 ppb	0.188 ppb	103.741 %	91.727 %
Concentration per Run 2	0.003 ppb	100.945 %	100.879 %	0.036 ppb	0.019 ppb	0.019 ppb	0.220 ppb	101.827 %	99.023 %
Concentration per Run 3	-0.009 ppb	98.626 %	99.097 %	0.050 ppb	0.217 ppb	0.010 ppb	0.236 ppb	103.101 %	100.918 %
Recovery Percentage 1	0.148 %			7.822 %	1.778 %	3.976 %	10.726 %		
Concentration RSD	261.4 %	1.2 %	6.7 %	25.8 %	124.7 %	51.9 %	11.5 %	0.9 %	5.0 %

Category	107Ag (KED_DEF)	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (STD_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)
Concentration average	0.011 ppb	0.010 ppb	105.728 %	101.630 %	1.312 ppb	0.014 ppb	108.519 %	104.789 %	107.599 %
Concentration per Run 1	0.018 ppb	0.019 ppb	104.843 %	95.641 %	1.210 ppb	0.010 ppb	109.746 %	98.331 %	109.397 %
Concentration per Run 2	0.009 ppb	0.004 ppb	108.425 %	104.192 %	1.348 ppb	0.016 ppb	107.933 %	107.171 %	107.040 %
Concentration per Run 3	0.005 ppb	0.007 ppb	103.914 %	105.056 %	1.377 ppb	0.015 ppb	107.877 %	108.865 %	106.361 %
Recovery Percentage 1	2.657 %				32.795 %	2.720 %			
Concentration RSD	63.7 %	80.8 %	2.3 %	5.1 %	6.8 %	23.5 %	1.0 %	5.4 %	1.5 %

Category	175Lu (KED_DEF)	205Tl (STD_DEF)	208Pb (STD_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	107.902 %	0.081 ppb	0.007 ppb	111.821 %	109.005 %
Concentration per Run 1	101.401 %	0.087 ppb	0.007 ppb	111.990 %	103.528 %
Concentration per Run 2	111.149 %	0.078 ppb	0.008 ppb	111.030 %	109.927 %
Concentration per Run 3	111.157 %	0.078 ppb	0.005 ppb	112.442 %	113.560 %
Recovery Percentage 1		8.098 %	0.660 %		
Concentration RSD	5.2 %	6.2 %	19.7 %	0.6 %	4.7 %

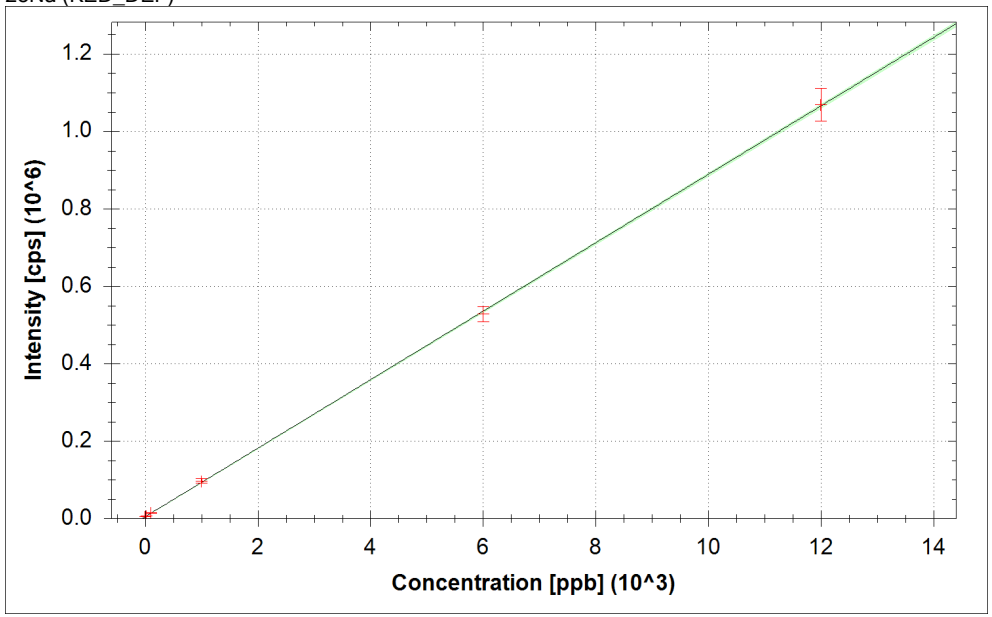
Calibration Curves:

9Be (STD_DEF)



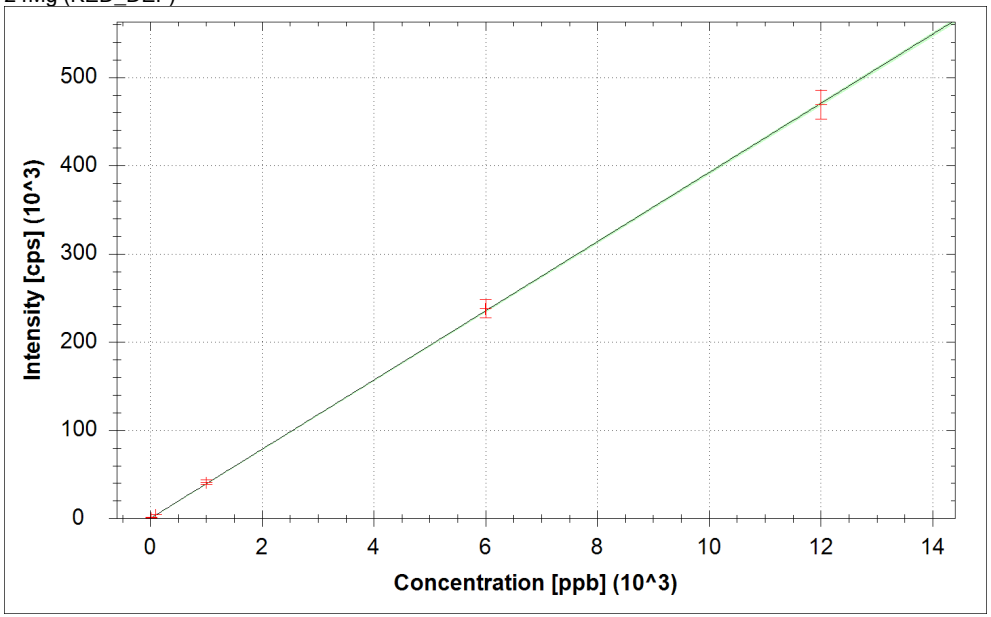
f(x) = 5525.8605*x + 139.5231
R² = 1.0000
BEC = 0.025 ppb
LoD = 0.0046 ppb

23Na (KED_DEF)



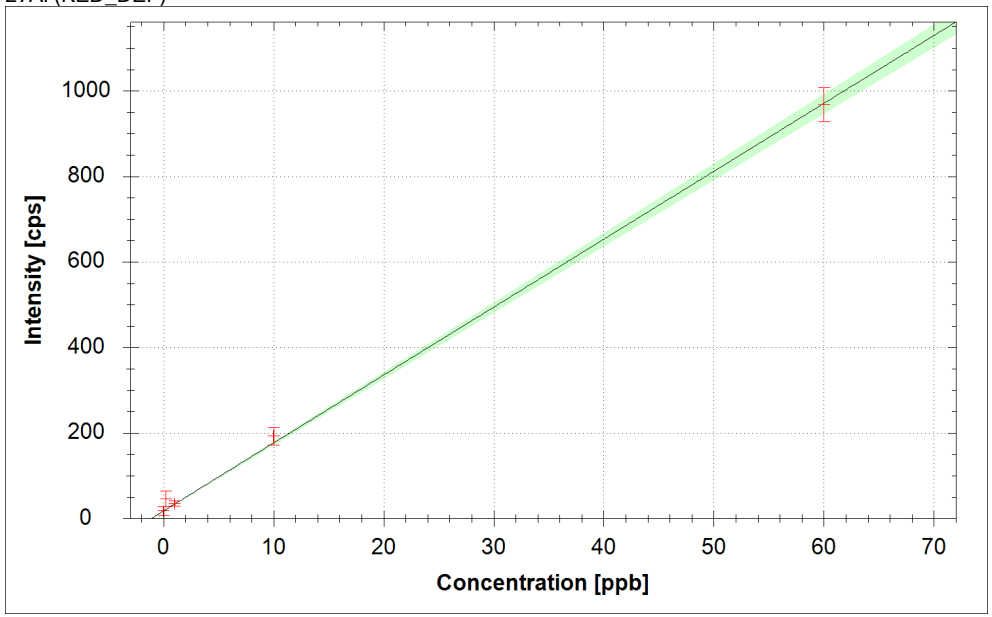
f(x) = 88.4057*x + 4585.9318
R² = 0.9999
BEC = 51.874 ppb
LoD = 9.7886 ppb

24Mg (KED_DEF)



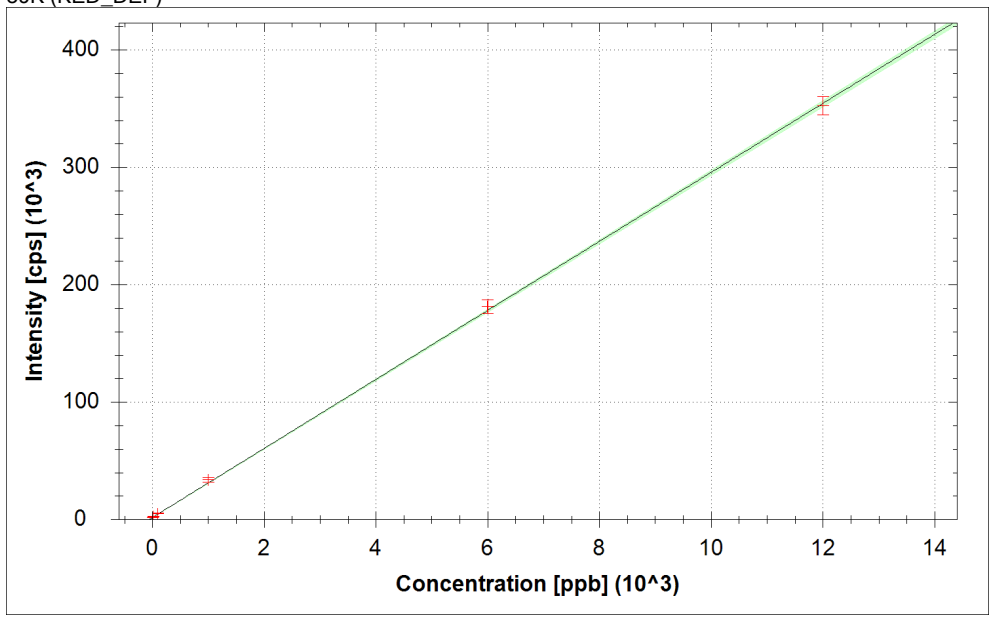
f(x) = 39.1983*x + 60.5103
R² = 0.9999
BEC = 1.544 ppb
LoD = 2.8653 ppb

27Al (KED_DEF)



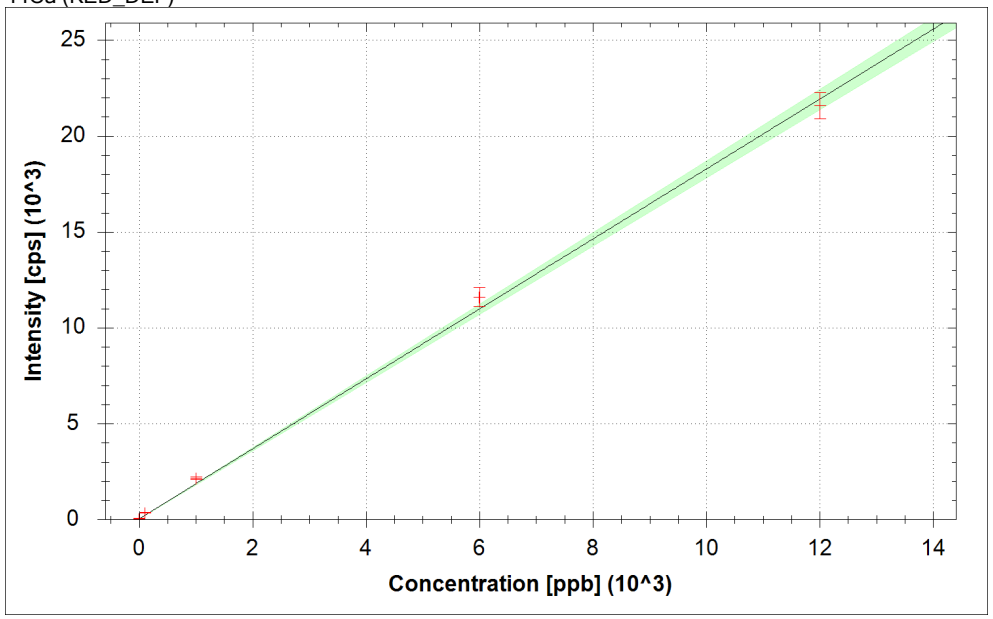
f(x) = 15.8782*x + 17.5410
R² = 0.9987
BEC = 1.105 ppb
LoD = 1.8235 ppb

39K (KED_DEF)



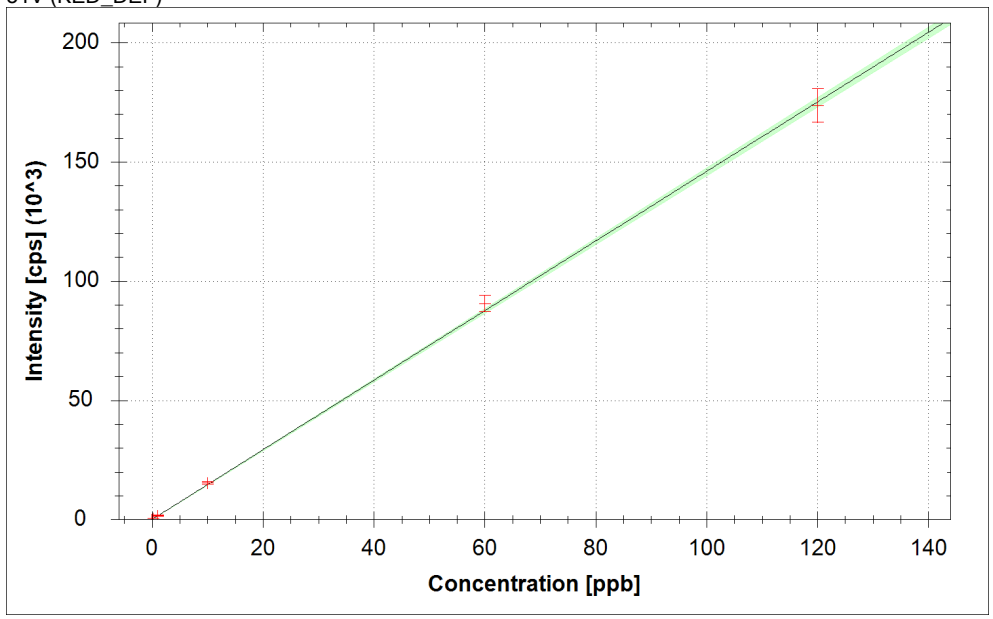
f(x) = 29.3827*x + 1661.6400
R² = 0.9998
BEC = 56.552 ppb
LoD = 8.9023 ppb

44Ca (KED_DEF)



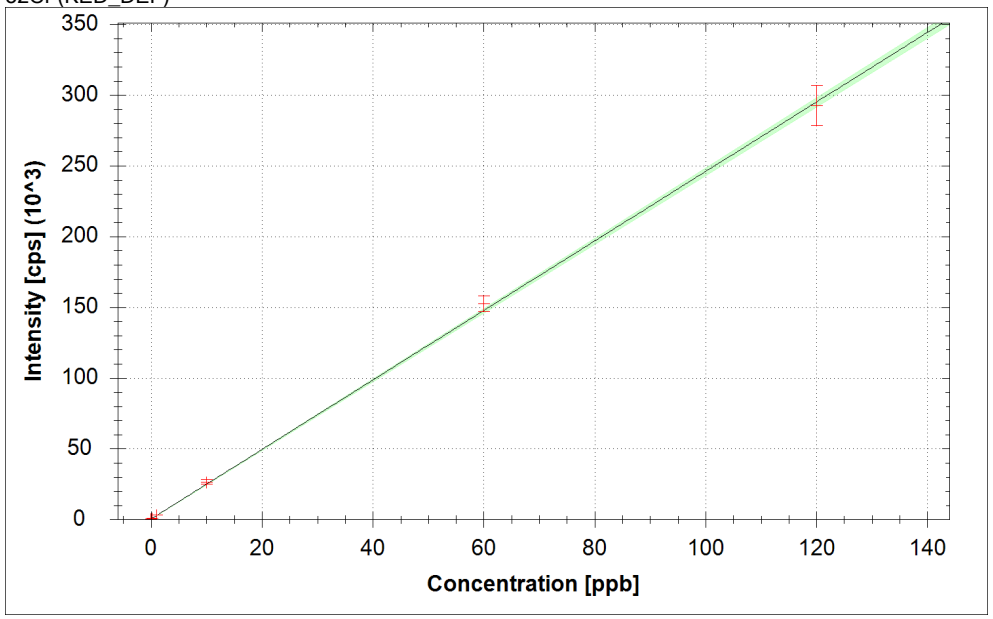
f(x) = 1.8242*x + 32.6720
R² = 0.9983
BEC = 17.910 ppb
LoD = 29.8577 ppb

51V (KED_DEF)



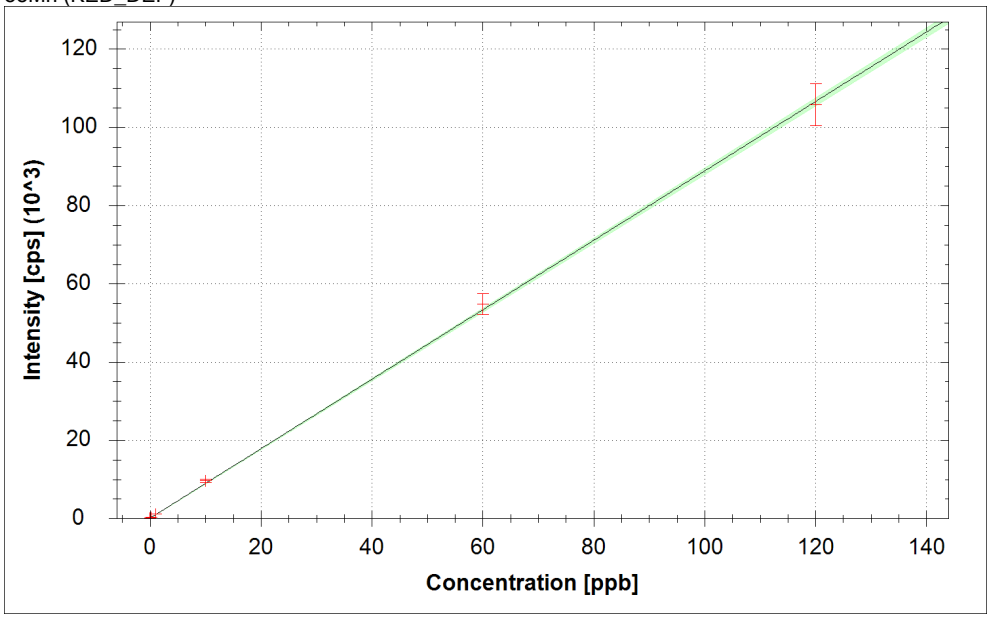
f(x) = 1459.3706*x + 33.5378
R² = 0.9995
BEC = 0.023 ppb
LoD = 0.0258 ppb

52Cr (KED_DEF)



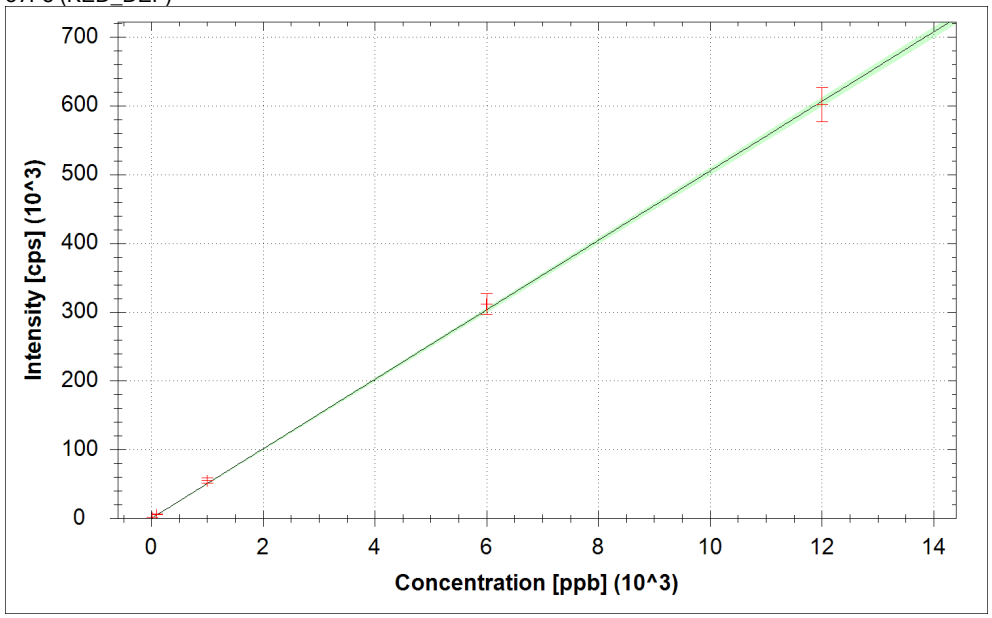
f(x) = 2455.7724*x + 331.7092
R² = 0.9996
BEC = 0.135 ppb
LoD = 0.0419 ppb

55Mn (KED_DEF)



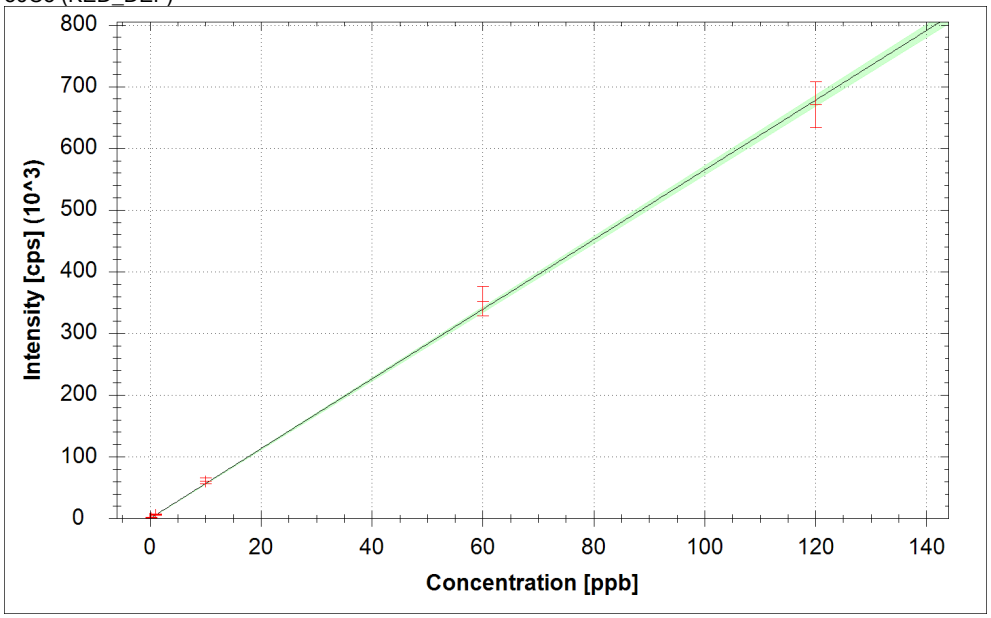
f(x) = 887.2431*x + 78.6872
R² = 0.9997
BEC = 0.089 ppb
LoD = 0.0476 ppb

57Fe (KED_DEF)



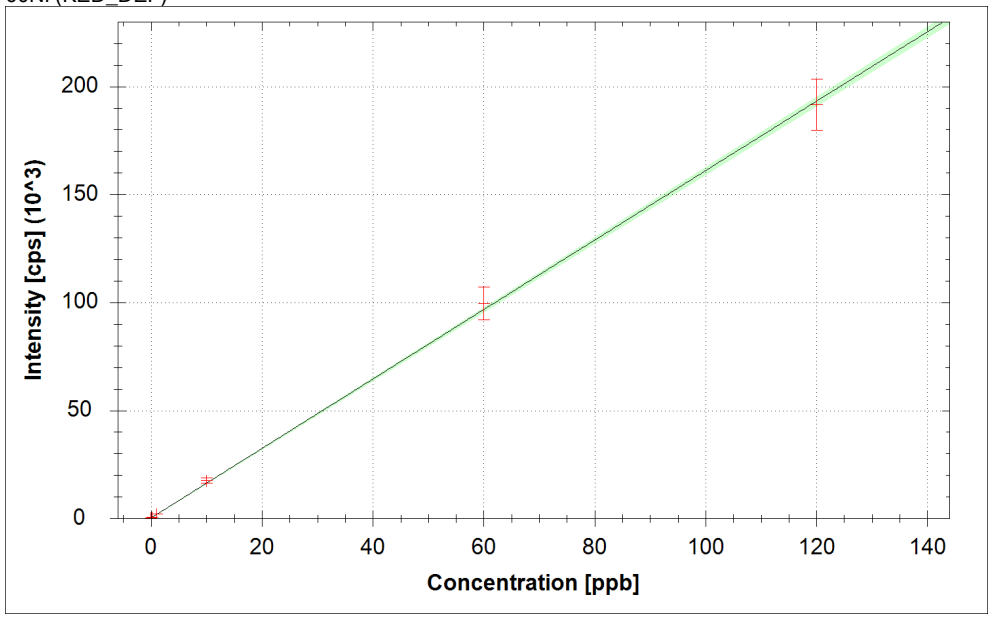
f(x) = 50.5020*x + 153.3124
R² = 0.9996
BEC = 3.036 ppb
LoD = 0.9716 ppb

59Co (KED_DEF)



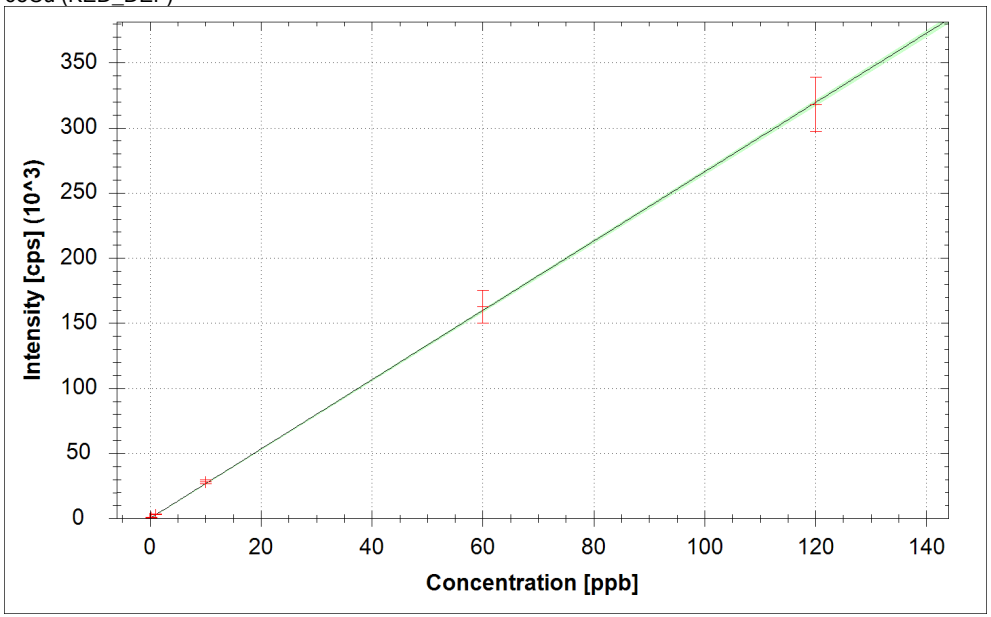
f(x) = 5645.7032*x + 13.2056
R² = 0.9994
BEC = 0.002 ppb
LoD = 0.0034 ppb

60Ni (KED_DEF)



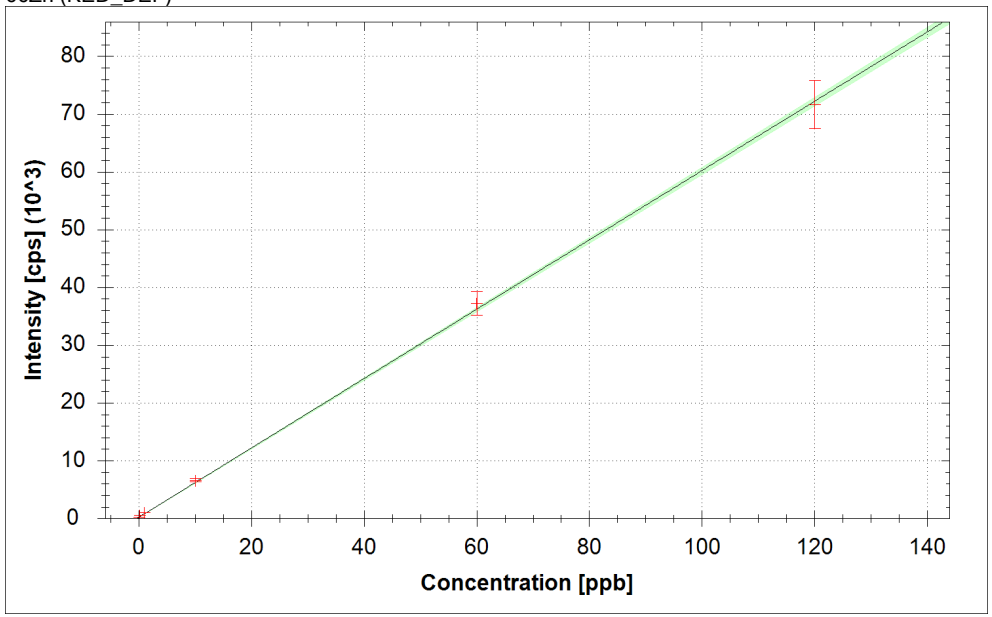
f(x) = 1607.4458*x + 249.7033
R² = 0.9996
BEC = 0.155 ppb
LoD = 0.0832 ppb

65Cu (KED_DEF)



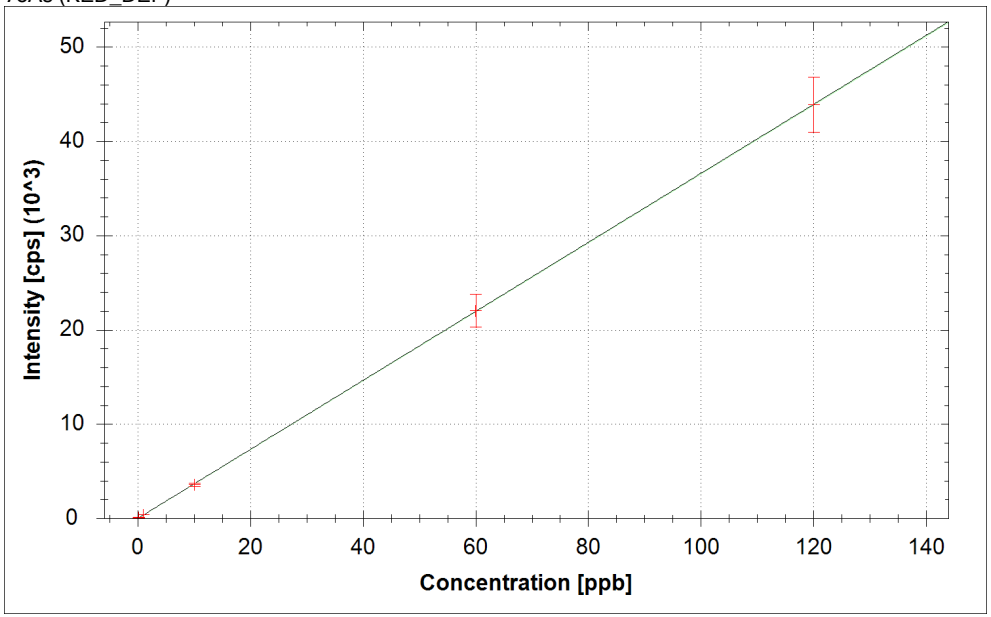
f(x) = 2660.2708*x + 81.7464
R² = 0.9998
BEC = 0.031 ppb
LoD = 0.0195 ppb

66Zn (KED_DEF)



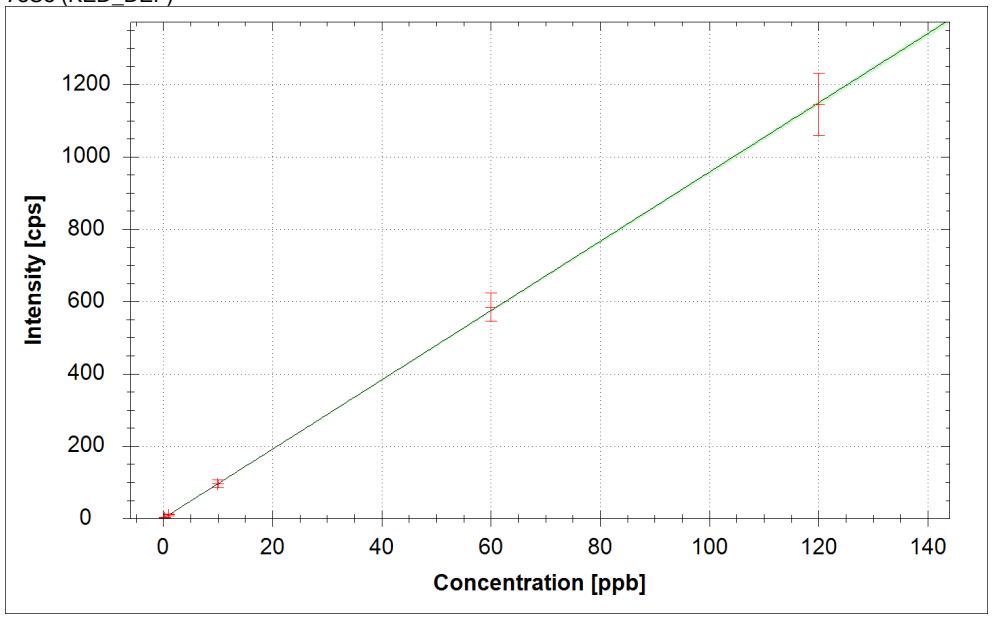
f(x) = 599.6730*x + 207.0158
R² = 0.9996
BEC = 0.345 ppb
LoD = 0.2167 ppb

75As (KED_DEF)



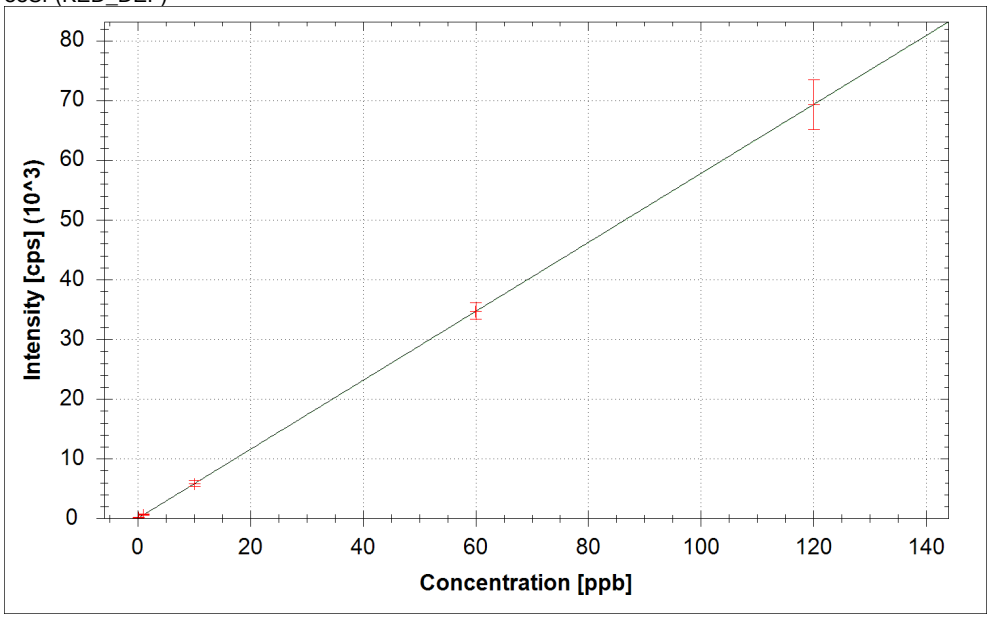
f(x) = 365.8090*x + 10.9953
R² = 1.0000
BEC = 0.030 ppb
LoD = 0.1651 ppb

78Se (KED_DEF)



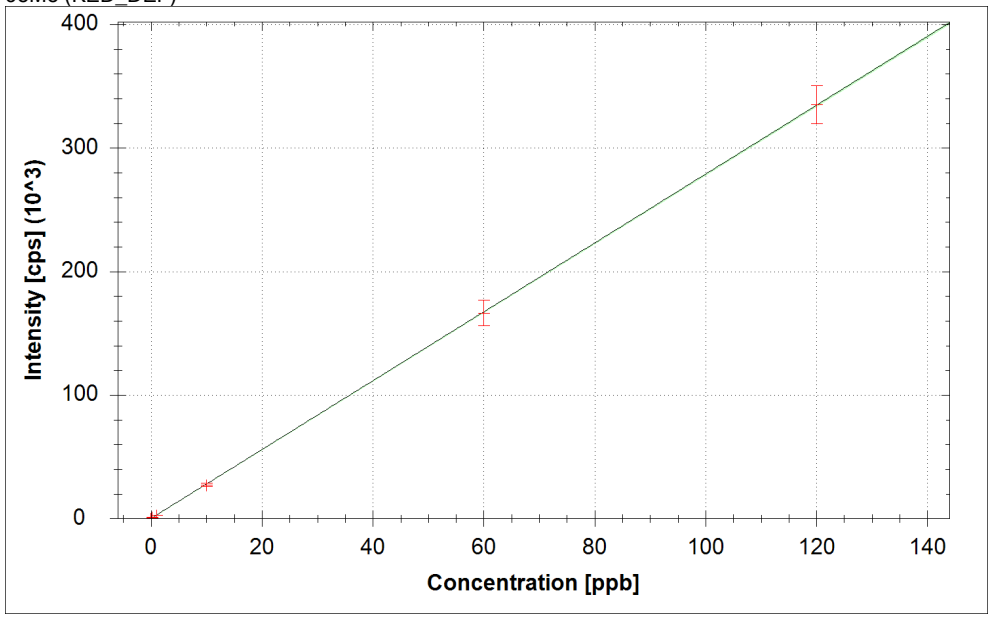
f(x) = 9.5723*x + 0.0955
R² = 0.9999
BEC = 0.010 ppb
LoD = 0.0584 ppb

88Sr (KED_DEF)



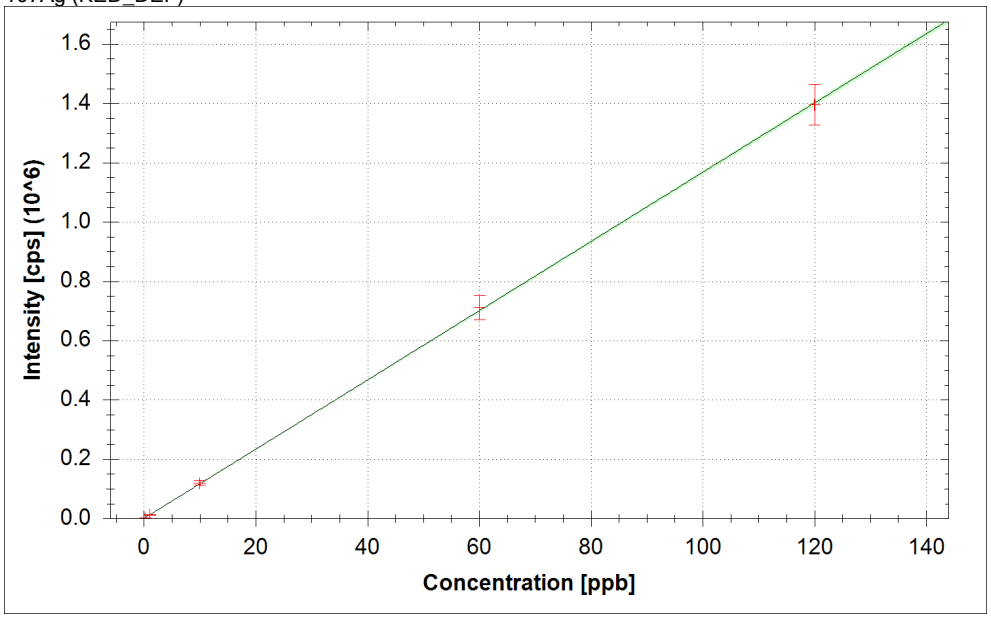
f(x) = 577.4400*x + 29.9339
R² = 1.0000
BEC = 0.052 ppb
LoD = 0.0501 ppb

95Mo (KED_DEF)



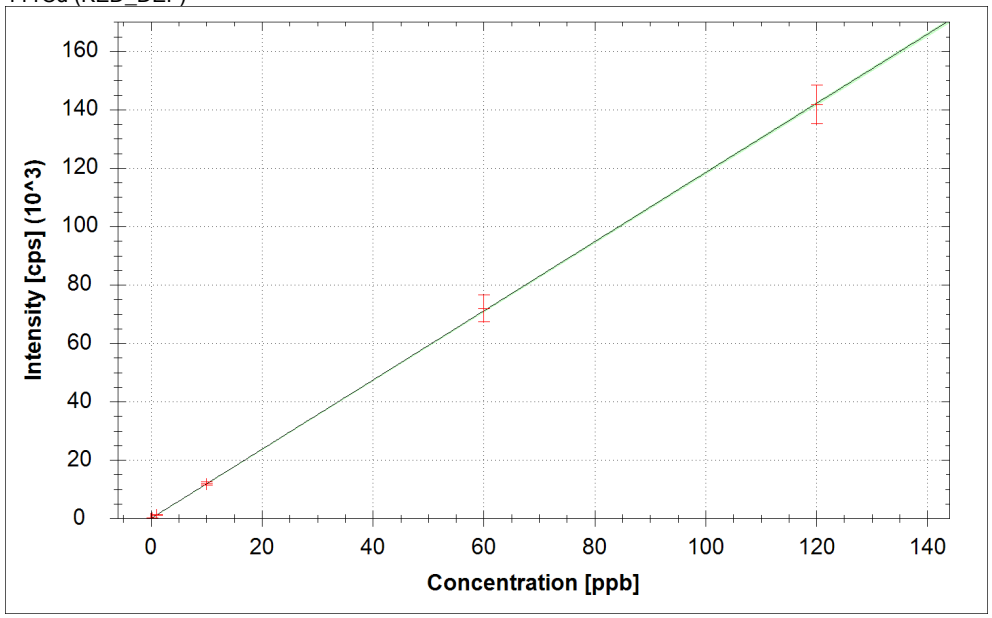
f(x) = 2786.6909*x + 48.6487
R² = 1.0000
BEC = 0.017 ppb
LoD = 0.0083 ppb

107Ag (KED_DEF)



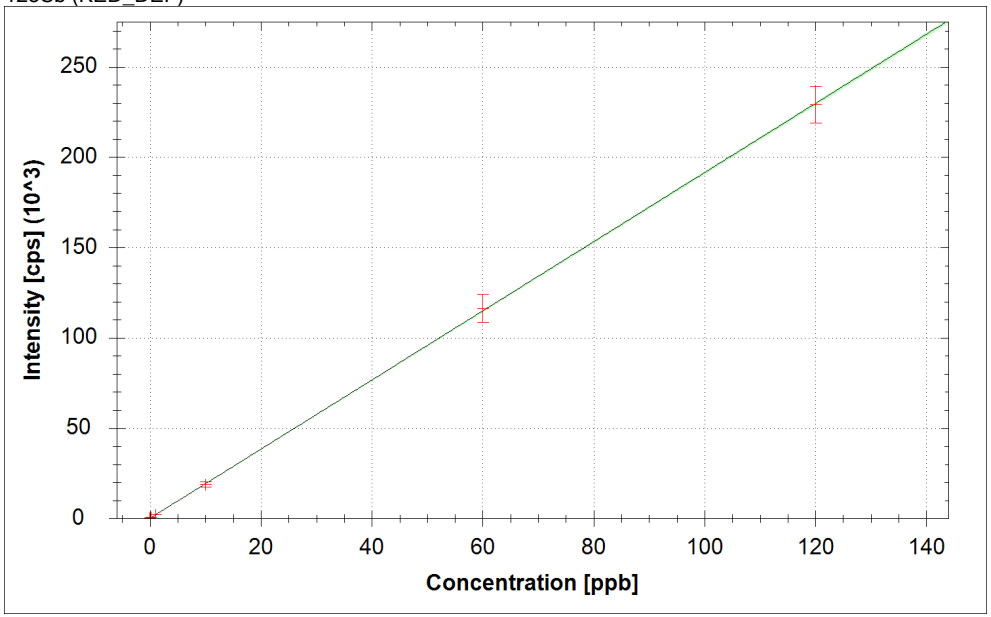
f(x) = 11673.7581*x + 10.1366
R² = 0.9999
BEC = 0.001 ppb
LoD = 0.0010 ppb

111Cd (KED_DEF)



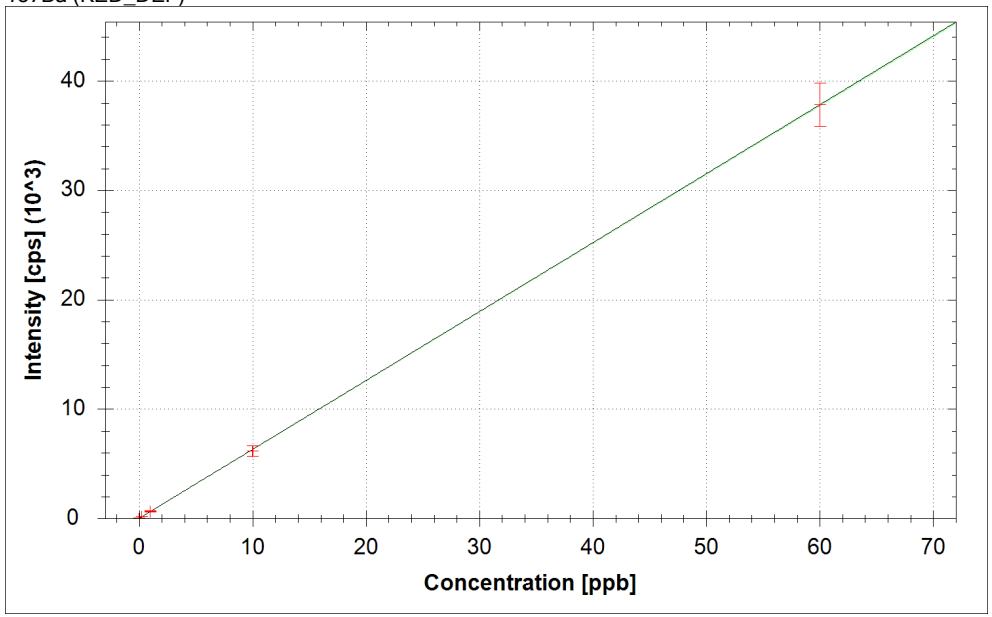
f(x) = 1184.2770*x + 0.4709
R² = 1.0000
BEC = 0.000 ppb
LoD = 0.0021 ppb

123Sb (KED_DEF)



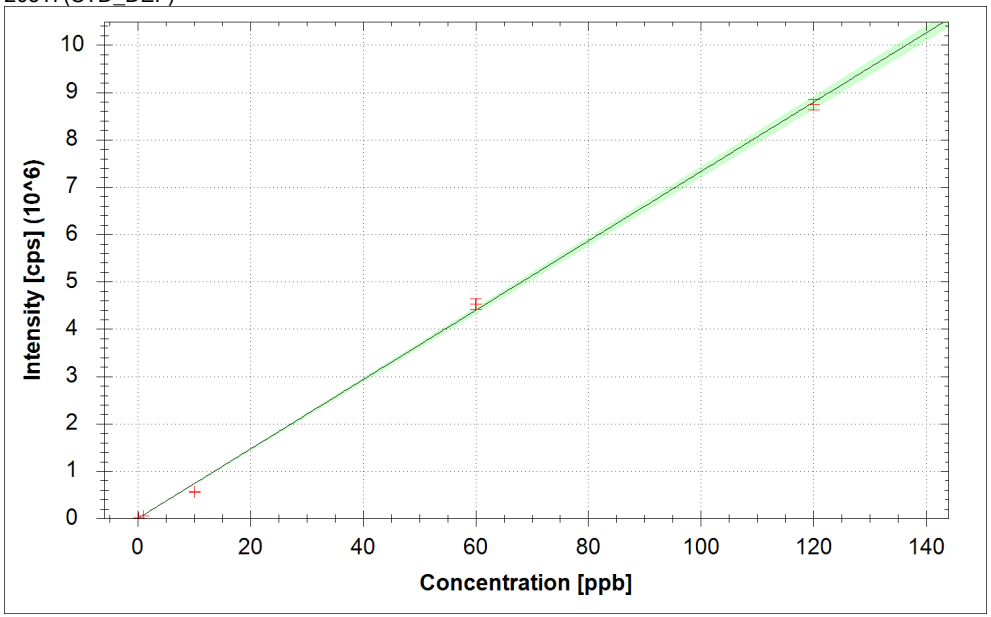
f(x) = 1913.0667*x + 128.1280
R^2 = 0.9999
BEC = 0.067 ppb
LoD = 0.0094 ppb

137Ba (KED_DEF)



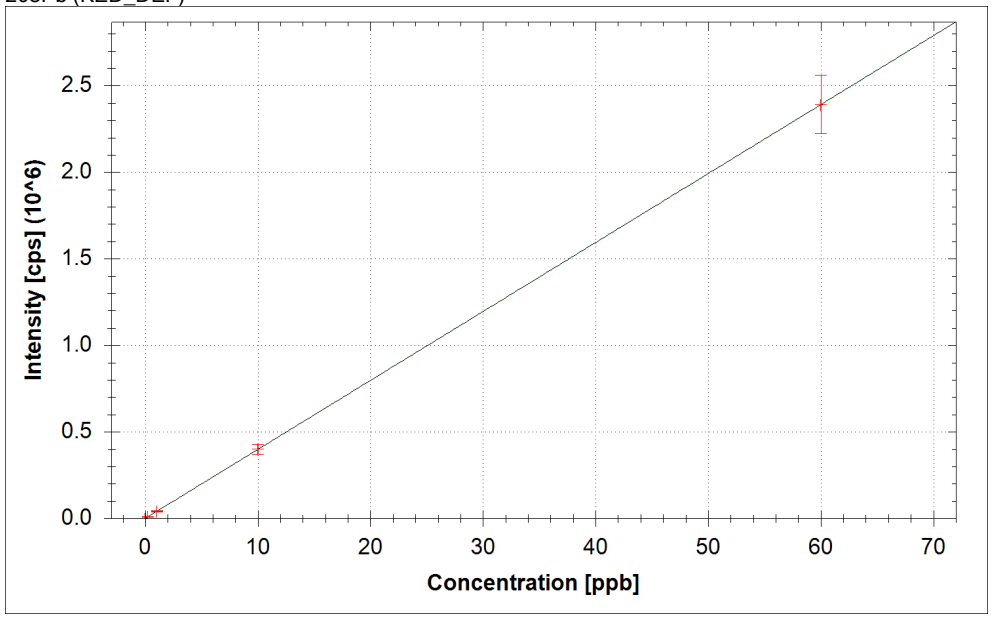
f(x) = 630.0077*x + 10.1285
R^2 = 1.0000
BEC = 0.016 ppb
LoD = 0.0184 ppb

205Tl (STD_DEF)



f(x) = 73232.3270*x + 1027.3964
R² = 0.9992
BEC = 0.014 ppb
LoD = 0.0046 ppb

208Pb (KED_DEF)



f(x) = 39833.5304*x + 207.1160
R² = 1.0000
BEC = 0.005 ppb
LoD = 0.0012 ppb

Standards:

Analysis Index: 4
Analysis Name: 0.2/20 Cal
Analysis Type: STD
Analysis Started at: 6/11/2024 1:30:59 PM
Total Dilution Factor 50000
Rack 0
Vial 2

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD_DEF)	98.967 %	0.8 %		0.000 %
6Li (KED_DEF)	98.121 %	7.2 %		0.000 %
9Be (STD_DEF)	0.187 ppb	2.1 %	0.200 ppb	6.364 %
23Na (KED_DEF)	20.542 ppb	17.8 %	20.000 ppb	2.712 %
24Mg (KED_DEF)	20.569 ppb	8.1 %	20.000 ppb	2.845 %
27Al (KED_DEF)	1.754 ppb	68.2 %	0.200 ppb	777.045 %
39K (KED_DEF)	24.467 ppb	15.8 %	20.000 ppb	22.336 %
44Ca (KED_DEF)	100.887 ppb	33.4 %	20.000 ppb	404.435 %
45Sc (STD_DEF)	99.449 %	1.6 %		0.000 %
45Sc (KED_DEF)	99.887 %	2.9 %		0.000 %
51V (KED_DEF)	0.217 ppb	3.7 %	0.200 ppb	8.566 %
52Cr (KED_DEF)	0.205 ppb	20.9 %	0.200 ppb	2.711 %
55Mn (KED_DEF)	0.213 ppb	3.9 %	0.200 ppb	6.591 %
57Fe (KED_DEF)	23.739 ppb	7.6 %	20.000 ppb	18.694 %
59Co (KED_DEF)	0.215 ppb	10.0 %	0.200 ppb	7.731 %
60Ni (KED_DEF)	0.235 ppb	11.0 %	0.200 ppb	17.518 %
65Cu (KED_DEF)	0.205 ppb	11.5 %	0.200 ppb	2.742 %
66Zn (KED_DEF)	0.548 ppb	13.3 %	0.200 ppb	174.090 %
74Ge (STD_DEF)	101.144 %	0.9 %		0.000 %
74Ge (KED_DEF)	101.471 %	3.0 %		0.000 %
75As (KED_DEF)	0.208 ppb	19.1 %	0.200 ppb	4.232 %
78Se (KED_DEF)	0.223 ppb	29.8 %	0.200 ppb	11.412 %
88Sr (KED_DEF)	0.218 ppb	13.3 %	0.200 ppb	8.889 %
95Mo (KED_DEF)	0.216 ppb	7.9 %	0.200 ppb	7.893 %
103Rh (STD_DEF)	101.770 %	1.0 %		0.000 %
103Rh (KED_DEF)	100.551 %	4.7 %		0.000 %
107Ag (KED_DEF)	0.206 ppb	10.0 %	0.200 ppb	2.846 %
111Cd (KED_DEF)	0.199 ppb	2.7 %	0.200 ppb	0.621 %
115In (STD_DEF)	101.415 %	1.4 %		0.000 %
115In (KED_DEF)	101.098 %	5.2 %		0.000 %
123Sb (KED_DEF)	0.202 ppb	8.0 %	0.200 ppb	0.847 %
137Ba (KED_DEF)	0.231 ppb	12.2 %	0.200 ppb	15.309 %
159Tb (STD_DEF)	99.185 %	2.0 %		0.000 %
159Tb (KED_DEF)	99.590 %	4.2 %		0.000 %
175Lu (STD_DEF)	99.184 %	1.2 %		0.000 %
175Lu (KED_DEF)	102.179 %	5.4 %		0.000 %
205Tl (STD_DEF)	0.145 ppb	4.2 %	0.200 ppb	27.586 %
208Pb (KED_DEF)	0.207 ppb	8.8 %	0.200 ppb	3.303 %
209Bi (STD_DEF)	100.148 %	1.9 %		0.000 %
209Bi (KED_DEF)	97.904 %	6.8 %		0.000 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Standards:

Analysis Index: 5
Analysis Name: 1/100 Cal
Analysis Type: STD
Analysis Started at: 6/11/2024 1:35:40 PM
Total Dilution Factor 10000
Rack 0
Vial 3

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD_DEF)	97.965 %	1.0 %		0.000 %
6Li (KED_DEF)	93.791 %	6.5 %		0.000 %
9Be (STD_DEF)	0.982 ppb	0.4 %	1.000 ppb	1.772 %
23Na (KED_DEF)	109.619 ppb	8.4 %	100.000 ppb	9.619 %
24Mg (KED_DEF)	111.371 ppb	2.4 %	100.000 ppb	11.371 %
27Al (KED_DEF)	1.073 ppb	33.6 %	1.000 ppb	7.281 %
39K (KED_DEF)	114.400 ppb	11.0 %	100.000 ppb	14.400 %
44Ca (KED_DEF)	173.490 ppb	7.4 %	100.000 ppb	73.490 %
45Sc (STD_DEF)	100.235 %	0.8 %		0.000 %
45Sc (KED_DEF)	97.960 %	2.3 %		0.000 %
51V (KED_DEF)	1.079 ppb	15.1 %	1.000 ppb	7.900 %
52Cr (KED_DEF)	1.101 ppb	4.8 %	1.000 ppb	10.073 %
55Mn (KED_DEF)	1.148 ppb	5.4 %	1.000 ppb	14.842 %
57Fe (KED_DEF)	112.988 ppb	7.1 %	100.000 ppb	12.988 %
59Co (KED_DEF)	1.072 ppb	9.2 %	1.000 ppb	7.230 %
60Ni (KED_DEF)	1.134 ppb	2.1 %	1.000 ppb	13.440 %
65Cu (KED_DEF)	1.125 ppb	2.9 %	1.000 ppb	12.451 %
66Zn (KED_DEF)	1.271 ppb	4.3 %	1.000 ppb	27.119 %
74Ge (STD_DEF)	99.307 %	0.4 %		0.000 %
74Ge (KED_DEF)	100.123 %	6.8 %		0.000 %
75As (KED_DEF)	1.019 ppb	1.6 %	1.000 ppb	1.887 %
78Se (KED_DEF)	1.054 ppb	27.2 %	1.000 ppb	5.362 %
88Sr (KED_DEF)	1.055 ppb	12.2 %	1.000 ppb	5.521 %
95Mo (KED_DEF)	0.916 ppb	5.2 %	1.000 ppb	8.418 %
103Rh (STD_DEF)	101.116 %	0.6 %		0.000 %
103Rh (KED_DEF)	98.931 %	5.6 %		0.000 %
107Ag (KED_DEF)	1.009 ppb	7.6 %	1.000 ppb	0.894 %
111Cd (KED_DEF)	0.990 ppb	7.0 %	1.000 ppb	0.998 %
115In (STD_DEF)	101.056 %	0.8 %		0.000 %
115In (KED_DEF)	100.294 %	6.9 %		0.000 %
123Sb (KED_DEF)	1.007 ppb	6.9 %	1.000 ppb	0.652 %
137Ba (KED_DEF)	0.983 ppb	7.5 %	1.000 ppb	1.685 %
159Tb (STD_DEF)	100.549 %	0.9 %		0.000 %
159Tb (KED_DEF)	100.311 %	6.0 %		0.000 %
175Lu (STD_DEF)	99.511 %	1.6 %		0.000 %
175Lu (KED_DEF)	101.109 %	5.2 %		0.000 %
205Tl (STD_DEF)	0.760 ppb	0.7 %	1.000 ppb	23.983 %
208Pb (KED_DEF)	1.024 ppb	6.2 %	1.000 ppb	2.394 %
209Bi (STD_DEF)	97.964 %	0.9 %		0.000 %
209Bi (KED_DEF)	97.579 %	4.9 %		0.000 %

Standards:

Analysis Index: 6
Analysis Name: 10/10000 Cal
Analysis Type: STD
Analysis Started at: 6/11/2024 1:40:21 PM
Total Dilution Factor 1000
Rack 0
Vial 4

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD_DEF)	98.481 %	0.2 %		0.000 %
6Li (KED_DEF)	98.284 %	6.3 %		0.000 %
9Be (STD_DEF)	9.756 ppb	1.8 %	10.000 ppb	2.437 %
23Na (KED_DEF)	1,042.780 ppb	5.7 %	1,000.000 ppb	4.278 %
24Mg (KED_DEF)	1,040.170 ppb	6.4 %	1,000.000 ppb	4.017 %
27Al (KED_DEF)	10.990 ppb	11.4 %	10.000 ppb	9.896 %
39K (KED_DEF)	1,090.017 ppb	5.6 %	1,000.000 ppb	9.002 %
44Ca (KED_DEF)	1,155.810 ppb	3.8 %	1,000.000 ppb	15.581 %
45Sc (STD_DEF)	94.567 %	6.3 %		0.000 %
45Sc (KED_DEF)	100.320 %	3.2 %		0.000 %
51V (KED_DEF)	10.480 ppb	3.3 %	10.000 ppb	4.804 %
52Cr (KED_DEF)	10.633 ppb	6.1 %	10.000 ppb	6.328 %
55Mn (KED_DEF)	10.804 ppb	4.4 %	10.000 ppb	8.040 %
57Fe (KED_DEF)	1,082.618 ppb	7.3 %	1,000.000 ppb	8.262 %
59Co (KED_DEF)	10.739 ppb	7.6 %	10.000 ppb	7.386 %
60Ni (KED_DEF)	10.759 ppb	7.4 %	10.000 ppb	7.588 %
65Cu (KED_DEF)	10.505 ppb	4.9 %	10.000 ppb	5.052 %
66Zn (KED_DEF)	10.629 ppb	4.3 %	10.000 ppb	6.291 %
74Ge (STD_DEF)	100.413 %	1.0 %		0.000 %
74Ge (KED_DEF)	102.424 %	5.6 %		0.000 %
75As (KED_DEF)	9.748 ppb	4.4 %	10.000 ppb	2.521 %
78Se (KED_DEF)	9.947 ppb	11.2 %	10.000 ppb	0.528 %
88Sr (KED_DEF)	10.028 ppb	8.2 %	10.000 ppb	0.277 %
95Mo (KED_DEF)	9.706 ppb	4.5 %	10.000 ppb	2.939 %
103Rh (STD_DEF)	96.811 %	6.4 %		0.000 %
103Rh (KED_DEF)	99.934 %	3.8 %		0.000 %
107Ag (KED_DEF)	10.226 ppb	6.8 %	10.000 ppb	2.260 %
111Cd (KED_DEF)	10.043 ppb	4.9 %	10.000 ppb	0.429 %
115In (STD_DEF)	101.269 %	1.5 %		0.000 %
115In (KED_DEF)	102.199 %	4.5 %		0.000 %
123Sb (KED_DEF)	9.739 ppb	7.0 %	10.000 ppb	2.605 %
137Ba (KED_DEF)	9.791 ppb	7.8 %	10.000 ppb	2.089 %
159Tb (STD_DEF)	101.782 %	1.7 %		0.000 %
159Tb (KED_DEF)	101.758 %	8.0 %		0.000 %
175Lu (STD_DEF)	100.529 %	2.8 %		0.000 %
175Lu (KED_DEF)	102.704 %	5.1 %		0.000 %
205Tl (STD_DEF)	7.611 ppb	1.4 %	10.000 ppb	23.894 %
208Pb (KED_DEF)	10.005 ppb	7.2 %	10.000 ppb	0.054 %
209Bi (STD_DEF)	98.661 %	1.0 %		0.000 %
209Bi (KED_DEF)	100.179 %	5.6 %		0.000 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Standards:

Analysis Index: 7
Analysis Name: 60/6000 Cal
Analysis Type: STD
Analysis Started at: 6/11/2024 1:45:03 PM
Total Dilution Factor 166.66666666
Rack 0
Vial 5

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD_DEF)	96.253 %	0.4 %		0.000 %
6Li (KED_DEF)	99.101 %	3.8 %		0.000 %
9Be (STD_DEF)	60.435 ppb	0.5 %	60.000 ppb	0.725 %
23Na (KED_DEF)	5,913.258 ppb	3.6 %	6,000.000 ppb	1.446 %
24Mg (KED_DEF)	6,063.881 ppb	4.4 %	6,000.000 ppb	1.065 %
27Al (KED_DEF)	59.829 ppb	4.2 %	60.000 ppb	0.286 %
39K (KED_DEF)	6,111.518 ppb	3.3 %	6,000.000 ppb	1.859 %
44Ca (KED_DEF)	6,343.864 ppb	4.2 %	6,000.000 ppb	5.731 %
45Sc (STD_DEF)	100.127 %	1.9 %		0.000 %
45Sc (KED_DEF)	103.321 %	2.0 %		0.000 %
51V (KED_DEF)	62.041 ppb	3.7 %	60.000 ppb	3.402 %
52Cr (KED_DEF)	61.954 ppb	3.6 %	60.000 ppb	3.256 %
55Mn (KED_DEF)	61.606 ppb	4.8 %	60.000 ppb	2.676 %
57Fe (KED_DEF)	6,167.279 ppb	5.0 %	6,000.000 ppb	2.788 %
59Co (KED_DEF)	62.336 ppb	6.9 %	60.000 ppb	3.894 %
60Ni (KED_DEF)	61.809 ppb	7.7 %	60.000 ppb	3.015 %
65Cu (KED_DEF)	61.099 ppb	7.8 %	60.000 ppb	1.831 %
66Zn (KED_DEF)	61.743 ppb	5.5 %	60.000 ppb	2.905 %
74Ge (STD_DEF)	102.406 %	0.8 %		0.000 %
74Ge (KED_DEF)	100.471 %	5.9 %		0.000 %
75As (KED_DEF)	60.147 ppb	8.0 %	60.000 ppb	0.246 %
78Se (KED_DEF)	60.990 ppb	6.8 %	60.000 ppb	1.651 %
88Sr (KED_DEF)	60.053 ppb	4.0 %	60.000 ppb	0.089 %
95Mo (KED_DEF)	59.654 ppb	6.3 %	60.000 ppb	0.577 %
103Rh (STD_DEF)	98.305 %	0.4 %		0.000 %
103Rh (KED_DEF)	96.636 %	3.8 %		0.000 %
107Ag (KED_DEF)	60.876 ppb	5.7 %	60.000 ppb	1.460 %
111Cd (KED_DEF)	60.689 ppb	6.5 %	60.000 ppb	1.148 %
115In (STD_DEF)	98.162 %	1.4 %		0.000 %
115In (KED_DEF)	99.037 %	5.6 %		0.000 %
123Sb (KED_DEF)	60.704 ppb	6.6 %	60.000 ppb	1.174 %
137Ba (KED_DEF)	60.035 ppb	5.2 %	60.000 ppb	0.058 %
159Tb (STD_DEF)	100.811 %	0.7 %		0.000 %
159Tb (KED_DEF)	99.298 %	5.5 %		0.000 %
175Lu (STD_DEF)	100.055 %	1.6 %		0.000 %
175Lu (KED_DEF)	101.072 %	6.8 %		0.000 %
205Tl (STD_DEF)	61.736 ppb	2.5 %	60.000 ppb	2.893 %
208Pb (KED_DEF)	59.999 ppb	7.0 %	60.000 ppb	0.002 %
209Bi (STD_DEF)	95.508 %	0.8 %		0.000 %
209Bi (KED_DEF)	96.670 %	6.6 %		0.000 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Standards:

Analysis Index: 8
Analysis Name: 120/120000 Cal
Analysis Type: STD
Analysis Started at: 6/11/2024 1:49:46 PM
Total Dilution Factor 83.33333333
Rack 0
Vial 6

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD_DEF)	95.396 %	0.5 %		0.000 %
6Li (KED_DEF)	92.238 %	6.4 %		0.000 %
9Be (STD_DEF)	119.803 ppb	0.8 %	120.000 ppb	0.164 %
23Na (KED_DEF)	12,039.725 ppb	4.0 %	12,000.000 ppb	0.331 %
24Mg (KED_DEF)	11,964.616 ppb	3.5 %	12,000.000 ppb	0.295 %
27Al (KED_DEF)	122.004 ppb	6.3 %	120.000 ppb	1.670 %
39K (KED_DEF)	11,936.612 ppb	2.2 %	12,000.000 ppb	0.528 %
44Ca (KED_DEF)	11,814.471 ppb	3.2 %	12,000.000 ppb	1.546 %
45Sc (STD_DEF)	104.494 %	1.6 %		0.000 %
45Sc (KED_DEF)	107.282 %	3.1 %		0.000 %
51V (KED_DEF)	118.939 ppb	4.1 %	120.000 ppb	0.884 %
52Cr (KED_DEF)	118.970 ppb	4.8 %	120.000 ppb	0.859 %
55Mn (KED_DEF)	119.129 ppb	5.1 %	120.000 ppb	0.726 %
57Fe (KED_DEF)	11,909.361 ppb	4.2 %	12,000.000 ppb	0.755 %
59Co (KED_DEF)	118.770 ppb	5.6 %	120.000 ppb	1.025 %
60Ni (KED_DEF)	119.031 ppb	6.1 %	120.000 ppb	0.807 %
65Cu (KED_DEF)	119.407 ppb	6.6 %	120.000 ppb	0.494 %
66Zn (KED_DEF)	119.073 ppb	5.8 %	120.000 ppb	0.772 %
74Ge (STD_DEF)	103.380 %	1.4 %		0.000 %
74Ge (KED_DEF)	102.761 %	6.5 %		0.000 %
75As (KED_DEF)	119.947 ppb	6.7 %	120.000 ppb	0.044 %
78Se (KED_DEF)	119.509 ppb	7.5 %	120.000 ppb	0.409 %
88Sr (KED_DEF)	119.971 ppb	6.0 %	120.000 ppb	0.025 %
95Mo (KED_DEF)	120.198 ppb	4.6 %	120.000 ppb	0.165 %
103Rh (STD_DEF)	95.245 %	1.7 %		0.000 %
103Rh (KED_DEF)	96.518 %	5.2 %		0.000 %
107Ag (KED_DEF)	119.543 ppb	4.9 %	120.000 ppb	0.381 %
111Cd (KED_DEF)	119.652 ppb	4.7 %	120.000 ppb	0.290 %
115In (STD_DEF)	99.289 %	0.6 %		0.000 %
115In (KED_DEF)	99.780 %	3.2 %		0.000 %
123Sb (KED_DEF)	119.669 ppb	4.5 %	120.000 ppb	0.275 %
137Ba (KED_DEF)	119.380 ppb	3.3 %	120.000 ppb	0.517 %
159Tb (STD_DEF)	97.299 %	2.1 %		0.000 %
159Tb (KED_DEF)	100.741 %	6.5 %		0.000 %
175Lu (STD_DEF)	97.418 %	0.3 %		0.000 %
175Lu (KED_DEF)	101.823 %	4.6 %		0.000 %
205Tl (STD_DEF)	119.333 ppb	1.3 %	120.000 ppb	0.556 %
208Pb (KED_DEF)	143.552 ppb	5.8 %	120.000 ppb	19.627 %
209Bi (STD_DEF)	93.712 %	0.7 %		0.000 %
209Bi (KED_DEF)	95.564 %	5.1 %		0.000 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	1	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	Rinse	Rack	0		
Analysis started at:	6/11/2024 1:16:57 PM	Vial	1		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	103.129 %	103.840 %	0.006 ppb	0.371 ppb	0.452 ppb	1.085 ppb	0.664 ppb	-3.315 ppb	99.772 %
Concentration per Run 1	104.085 %	97.794 %	0.005 ppb	1.800 ppb	0.407 ppb	0.880 ppb	-5.357 ppb	-2.338 ppb	103.477 %
Concentration per Run 2	102.994 %	105.882 %	0.006 ppb	-0.847 ppb	0.625 ppb	0.796 ppb	2.875 ppb	-5.773 ppb	105.640 %
Concentration per Run 3	102.307 %	107.843 %	0.007 ppb	0.161 ppb	0.324 ppb	1.580 ppb	4.473 ppb	-1.835 ppb	90.199 %
Concentration RSD	0.9 %	5.1 %	15.4 %	360.0 %	34.4 %	39.6 %	794.8 %	64.6 %	8.4 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	112.625 %	0.008 ppb	0.000 ppb	0.084 ppb	7.062 ppb	0.015 ppb	0.098 ppb	0.059 ppb	0.397 ppb
Concentration per Run 1	112.649 %	0.014 ppb	0.012 ppb	0.093 ppb	5.953 ppb	0.017 ppb	0.150 ppb	0.054 ppb	0.444 ppb
Concentration per Run 2	114.321 %	0.017 ppb	-0.026 ppb	0.085 ppb	7.660 ppb	0.007 ppb	0.086 ppb	0.075 ppb	0.379 ppb
Concentration per Run 3	110.905 %	-0.006 ppb	0.014 ppb	0.075 ppb	7.572 ppb	0.020 ppb	0.057 ppb	0.048 ppb	0.368 ppb
Concentration RSD	1.5 %	153.2 %	10,170.1 %	10.9 %	13.6 %	46.3 %	48.7 %	24.6 %	10.3 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	102.827 %	105.505 %	0.001 ppb	0.027 ppb	0.020 ppb	0.027 ppb	103.941 %	104.345 %	0.001 ppb
Concentration per Run 1	105.049 %	99.502 %	0.033 ppb	0.052 ppb	0.037 ppb	0.021 ppb	106.396 %	97.818 %	0.001 ppb
Concentration per Run 2	102.114 %	109.466 %	-0.011 ppb	-0.022 ppb	0.027 ppb	0.025 ppb	102.797 %	107.311 %	0.000 ppb
Concentration per Run 3	101.318 %	107.548 %	-0.019 ppb	0.051 ppb	-0.005 ppb	0.034 ppb	102.631 %	107.906 %	0.001 ppb
Concentration RSD	1.9 %	5.0 %	2,736.2 %	156.1 %	110.1 %	23.6 %	2.0 %	5.4 %	45.1 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.000 ppb	103.958 %	104.620 %	0.190 ppb	0.045 ppb	101.450 %	104.291 %	100.070 %	106.539 %
Concentration per Run 1	0.000 ppb	102.655 %	97.504 %	0.185 ppb	0.065 ppb	101.214 %	98.186 %	100.215 %	99.955 %
Concentration per Run 2	0.000 ppb	106.321 %	107.494 %	0.182 ppb	0.038 ppb	101.984 %	107.950 %	99.160 %	110.008 %
Concentration per Run 3	0.000 ppb	102.898 %	108.862 %	0.204 ppb	0.033 ppb	101.152 %	106.736 %	100.835 %	109.655 %
Concentration RSD	0.0 %	2.0 %	5.9 %	6.0 %	38.0 %	0.5 %	5.1 %	0.8 %	5.4 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.013 ppb	0.021 ppb	102.772 %	103.092 %
Concentration per Run 1	0.016 ppb	0.021 ppb	102.623 %	98.329 %
Concentration per Run 2	0.012 ppb	0.020 ppb	102.144 %	106.833 %
Concentration per Run 3	0.011 ppb	0.023 ppb	103.551 %	104.113 %
Concentration RSD	22.1 %	7.6 %	0.7 %	4.2 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	2	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	CAL LOT #M24-1045	Rack	0		
Analysis started at:	6/11/2024 1:21:35 PM	Vial	1		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	100.788 %	98.774 %	0.004 ppb	1.676 ppb	0.950 ppb	0.846 ppb	7.938 ppb	-4.089 ppb	101.607 %
Concentration per Run 1	101.044 %	102.206 %	0.005 ppb	1.139 ppb	1.183 ppb	-0.260 ppb	14.680 ppb	0.239 ppb	103.297 %
Concentration per Run 2	100.568 %	98.529 %	0.002 ppb	1.819 ppb	0.326 ppb	1.826 ppb	-0.110 ppb	-11.195 ppb	102.794 %
Concentration per Run 3	100.752 %	95.588 %	0.004 ppb	2.069 ppb	1.340 ppb	0.973 ppb	9.243 ppb	-1.311 ppb	98.730 %
Concentration RSD	0.2 %	3.4 %	35.3 %	28.7 %	57.4 %	123.9 %	94.2 %	151.7 %	2.5 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	101.506 %	0.005 ppb	-0.005 ppb	0.084 ppb	5.154 ppb	0.015 ppb	0.119 ppb	0.057 ppb	0.330 ppb
Concentration per Run 1	96.994 %	-0.004 ppb	0.029 ppb	0.086 ppb	4.860 ppb	0.015 ppb	0.157 ppb	0.060 ppb	0.354 ppb
Concentration per Run 2	101.815 %	0.004 ppb	-0.014 ppb	0.094 ppb	5.952 ppb	0.019 ppb	0.146 ppb	0.047 ppb	0.290 ppb
Concentration per Run 3	105.711 %	0.016 ppb	-0.029 ppb	0.074 ppb	4.649 ppb	0.012 ppb	0.055 ppb	0.063 ppb	0.345 ppb
Concentration RSD	4.3 %	194.0 %	602.1 %	11.8 %	13.6 %	23.4 %	47.0 %	15.3 %	10.5 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	99.285 %	101.543 %	-0.017 ppb	0.041 ppb	0.018 ppb	0.004 ppb	102.121 %	100.709 %	0.002 ppb
Concentration per Run 1	100.489 %	96.925 %	0.026 ppb	0.130 ppb	0.022 ppb	-0.007 ppb	101.477 %	95.668 %	0.002 ppb
Concentration per Run 2	99.070 %	104.232 %	-0.034 ppb	0.013 ppb	-0.001 ppb	0.008 ppb	104.821 %	102.685 %	0.001 ppb
Concentration per Run 3	98.297 %	103.471 %	-0.045 ppb	-0.020 ppb	0.031 ppb	0.013 ppb	100.065 %	103.773 %	0.002 ppb
Concentration RSD	1.1 %	4.0 %	218.4 %	192.2 %	92.1 %	240.6 %	2.4 %	4.4 %	15.3 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.000 ppb	101.250 %	101.411 %	0.045 ppb	0.046 ppb	100.453 %	100.920 %	99.337 %	101.762 %
Concentration per Run 1	0.000 ppb	102.497 %	93.226 %	0.045 ppb	0.069 ppb	98.965 %	94.063 %	99.397 %	96.957 %
Concentration per Run 2	0.002 ppb	101.936 %	103.061 %	0.038 ppb	0.060 ppb	100.604 %	105.252 %	97.864 %	102.654 %
Concentration per Run 3	0.000 ppb	99.317 %	107.944 %	0.051 ppb	0.009 ppb	101.791 %	103.445 %	100.749 %	105.675 %
Concentration RSD	381.0 %	1.7 %	7.4 %	14.9 %	70.3 %	1.4 %	6.0 %	1.5 %	4.4 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.004 ppb	0.022 ppb	99.148 %	98.661 %
Concentration per Run 1	0.005 ppb	0.022 ppb	99.425 %	93.915 %
Concentration per Run 2	0.003 ppb	0.022 ppb	99.680 %	100.980 %
Concentration per Run 3	0.004 ppb	0.021 ppb	98.337 %	101.087 %
Concentration RSD	18.4 %	2.5 %	0.7 %	4.2 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	3	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	Blank MRC ICPMSRQ	Rack	4		
Analysis started at:	6/11/2024 1:26:15 PM	Vial	49		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.0 %	0.1 %	0.1 %	0.1 %	0.6 %	0.6 %	0.1 %	0.6 %	0.0 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb
Concentration per Run	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb
Concentration RSD	0.0 %	0.4 %	0.1 %	0.2 %	0.1 %	0.5 %	0.2 %	0.2 %	0.2 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	100.000 %	0.000 ppb
Concentration per Run	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	100.000 %	0.000 ppb
Concentration RSD	0.0 %	0.1 %	1.8 %	2.0 %	0.3 %	0.2 %	0.0 %	0.1 %	0.4 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb	100.000 %	100.000 %	100.000 %	100.000 %
Concentration per Run	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb	100.000 %	100.000 %	100.000 %	100.000 %
Concentration RSD	1.7 %	0.0 %	0.0 %	0.0 %	0.4 %	0.0 %	0.1 %	0.0 %	0.1 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.000 ppb	0.000 ppb	100.000 %	100.000 %
Concentration per Run	0.000 ppb	0.000 ppb	100.000 %	100.000 %
Concentration RSD	0.1 %	0.1 %	0.0 %	0.1 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index: 4
Analysis label: 0.2/20 Cal
Analysis started at: 6/11/2024 1:30:59 PM
User name ALPHALAB\ICPMSRQ
Rack 0
Vial 2
Comment <Comment>

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	98.967 %	98.121 %	0.187 ppb	20.542 ppb	20.569 ppb	1.754 ppb	24.467 ppb	[illegible]	99.449 %
Concentration per Run 1	99.761 %	89.951 %	0.188 ppb	24.750 ppb	20.388 ppb	2.933 ppb	27.900 ppb	119.451 ppb	98.033 %
Concentration per Run 2	98.231 %	102.696 %	0.183 ppb	18.762 ppb	19.010 ppb	1.787 ppb	25.213 ppb	121.249 ppb	101.153 %
Concentration per Run 3	98.910 %	101.716 %	0.191 ppb	18.115 ppb	22.309 ppb	0.542 ppb	20.288 ppb	61.960 ppb	99.162 %
Concentration RSD	0.8 %	7.2 %	2.1 %	17.8 %	8.1 %	68.2 %	15.8 %	[illegible]	1.6 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	99.887 %	0.217 ppb	0.205 ppb	0.213 ppb	23.739 ppb	0.215 ppb	0.235 ppb	0.205 ppb	0.548 ppb
Concentration per Run 1	96.691 %	0.222 ppb	0.254 ppb	0.222 ppb	23.808 ppb	0.230 ppb	0.261 ppb	0.225 ppb	0.632 ppb
Concentration per Run 2	100.712 %	0.208 ppb	0.172 ppb	0.205 ppb	21.911 ppb	0.225 ppb	0.234 ppb	0.212 ppb	0.515 ppb
Concentration per Run 3	102.259 %	0.222 ppb	0.191 ppb	0.213 ppb	25.497 ppb	0.191 ppb	0.210 ppb	0.179 ppb	0.498 ppb
Concentration RSD	2.9 %	3.7 %	20.9 %	3.9 %	7.6 %	10.0 %	11.0 %	11.5 %	13.3 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	101.144 %	101.471 %	0.208 ppb	0.223 ppb	0.218 ppb	0.216 ppb	101.770 %	100.551 %	0.206 ppb
Concentration per Run 1	101.973 %	98.345 %	0.243 ppb	0.299 ppb	0.251 ppb	0.212 ppb	102.814 %	95.220 %	0.229 ppb
Concentration per Run 2	100.243 %	101.591 %	0.218 ppb	0.191 ppb	0.197 ppb	0.235 ppb	101.748 %	104.171 %	0.195 ppb
Concentration per Run 3	101.217 %	104.478 %	0.165 ppb	0.178 ppb	0.205 ppb	0.201 ppb	100.748 %	102.264 %	0.193 ppb
Concentration RSD	0.9 %	3.0 %	19.1 %	29.8 %	13.3 %	7.9 %	1.0 %	4.7 %	10.0 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.199 ppb	101.415 %	101.098 %	0.202 ppb	0.231 ppb	99.185 %	99.590 %	99.184 %	102.179 %
Concentration per Run 1	0.193 ppb	100.448 %	94.991 %	0.201 ppb	0.251 ppb	101.138 %	95.000 %	99.644 %	95.842 %
Concentration per Run 2	0.201 ppb	100.809 %	104.227 %	0.218 ppb	0.242 ppb	97.231 %	100.718 %	97.810 %	105.029 %
Concentration per Run 3	0.203 ppb	102.989 %	104.075 %	0.186 ppb	0.198 ppb	99.186 %	103.051 %	100.098 %	105.667 %
Concentration RSD	2.7 %	1.4 %	5.2 %	8.0 %	12.2 %	2.0 %	4.2 %	1.2 %	5.4 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.145 ppb	0.207 ppb	100.148 %	97.904 %
Concentration per Run 1	0.140 ppb	0.223 ppb	102.218 %	91.491 %
Concentration per Run 2	0.143 ppb	0.210 ppb	98.342 %	97.408 %
Concentration per Run 3	0.151 ppb	0.187 ppb	99.883 %	104.812 %
Concentration RSD	4.2 %	8.8 %	1.9 %	6.8 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	5	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	1/100 Cal	Rack	0		
Analysis started at:	6/11/2024 1:35:40 PM	Vial	3		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	97.965 %	93.791 %	0.982 ppb	109.619 ppb	111.371 ppb	1.073 ppb	114.400 ppb	173.490 ppb	100.235 %
Concentration per Run 1	99.133 %	89.216 %	0.982 ppb	119.630 ppb	114.364 ppb	0.708 ppb	127.402 ppb	158.758 ppb	99.764 %
Concentration per Run 2	97.397 %	100.735 %	0.987 ppb	101.386 ppb	109.470 ppb	1.429 ppb	102.170 ppb	180.395 ppb	99.805 %
Concentration per Run 3	97.365 %	91.421 %	0.978 ppb	107.843 ppb	110.279 ppb	1.081 ppb	113.628 ppb	181.317 ppb	101.134 %
Concentration RSD	1.0 %	6.5 %	0.4 %	8.4 %	2.4 %	33.6 %	11.0 %	7.4 %	0.8 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	97.960 %	1.079 ppb	1.101 ppb	1.148 ppb	112.988 ppb	1.072 ppb	1.134 ppb	1.125 ppb	1.271 ppb
Concentration per Run 1	95.606 %	1.233 ppb	1.161 ppb	1.207 ppb	122.211 ppb	1.185 ppb	1.143 ppb	1.153 ppb	1.315 ppb
Concentration per Run 2	98.274 %	1.095 ppb	1.081 ppb	1.084 ppb	109.259 ppb	1.030 ppb	1.153 ppb	1.131 ppb	1.210 ppb
Concentration per Run 3	100.000 %	0.909 ppb	1.060 ppb	1.154 ppb	107.495 ppb	1.002 ppb	1.107 ppb	1.090 ppb	1.289 ppb
Concentration RSD	2.3 %	15.1 %	4.8 %	5.4 %	7.1 %	9.2 %	2.1 %	2.9 %	4.3 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	99.307 %	100.123 %	1.019 ppb	1.054 ppb	1.055 ppb	0.916 ppb	101.116 %	98.931 %	1.009 ppb
Concentration per Run 1	99.244 %	92.324 %	1.038 ppb	0.808 ppb	1.204 ppb	0.949 ppb	101.756 %	92.706 %	1.097 ppb
Concentration per Run 2	98.896 %	103.166 %	1.008 ppb	1.368 ppb	0.987 ppb	0.862 ppb	101.045 %	103.130 %	0.977 ppb
Concentration per Run 3	99.781 %	104.880 %	1.011 ppb	0.985 ppb	0.975 ppb	0.937 ppb	100.548 %	100.957 %	0.953 ppb
Concentration RSD	0.4 %	6.8 %	1.6 %	27.2 %	12.2 %	5.2 %	0.6 %	5.6 %	7.6 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.990 ppb	101.056 %	100.294 %	1.007 ppb	0.983 ppb	100.549 %	100.311 %	99.511 %	101.109 %
Concentration per Run 1	1.070 ppb	101.985 %	92.456 %	1.086 ppb	0.900 ppb	100.126 %	93.461 %	99.554 %	95.008 %
Concentration per Run 2	0.953 ppb	100.749 %	105.367 %	0.971 ppb	1.041 ppb	101.590 %	102.904 %	101.048 %	104.647 %
Concentration per Run 3	0.947 ppb	100.434 %	103.058 %	0.962 ppb	1.008 ppb	99.933 %	104.567 %	97.931 %	103.672 %
Concentration RSD	7.0 %	0.8 %	6.9 %	6.9 %	7.5 %	0.9 %	6.0 %	1.6 %	5.2 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.760 ppb	1.024 ppb	97.964 %	97.579 %
Concentration per Run 1	0.766 ppb	1.087 ppb	97.082 %	92.358 %
Concentration per Run 2	0.755 ppb	1.025 ppb	98.917 %	98.768 %
Concentration per Run 3	0.760 ppb	0.960 ppb	97.893 %	101.611 %
Concentration RSD	0.7 %	6.2 %	0.9 %	4.9 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	6	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	10/10000 Cal	Rack	0		
Analysis started at:	6/11/2024 1:40:21 PM	Vial	4		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	98.481 %	98.284 %	9.756 ppb	1,042.780 ppb	1,040.170 ppb	10.990 ppb	1,090.017 ppb	1,155.810 ppb	94.567 %
Concentration per Run 1	98.531 %	91.176 %	9.910 ppb	1,110.069 ppb	1,116.189 ppb	10.847 ppb	1,153.567 ppb	1,121.155 ppb	87.879 %
Concentration per Run 2	98.659 %	101.226 %	9.793 ppb	1,022.412 ppb	1,013.994 ppb	9.810 ppb	1,083.874 ppb	1,141.477 ppb	99.132 %
Concentration per Run 3	98.254 %	102.451 %	9.566 ppb	995.857 ppb	990.327 ppb	12.313 ppb	1,032.611 ppb	1,204.797 ppb	96.689 %
Concentration RSD	0.2 %	6.3 %	1.8 %	5.7 %	6.4 %	11.4 %	5.6 %	3.8 %	6.3 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	100.320 %	10.480 ppb	10.633 ppb	10.804 ppb	1,082.618 ppb	10.739 ppb	10.759 ppb	10.505 ppb	10.629 ppb
Concentration per Run 1	98.008 %	10.800 ppb	11.233 ppb	11.243 ppb	1,170.223 ppb	11.567 ppb	11.447 ppb	11.023 ppb	11.066 ppb
Concentration per Run 2	98.986 %	10.533 ppb	10.716 ppb	10.873 ppb	1,062.288 ppb	10.703 ppb	10.941 ppb	10.496 ppb	10.663 ppb
Concentration per Run 3	103.967 %	10.109 ppb	9.949 ppb	10.296 ppb	1,015.344 ppb	9.946 ppb	9.888 ppb	9.996 ppb	10.158 ppb
Concentration RSD	3.2 %	3.3 %	6.1 %	4.4 %	7.3 %	7.6 %	7.4 %	4.9 %	4.3 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	100.413 %	102.424 %	9.748 ppb	9.947 ppb	10.028 ppb	9.706 ppb	96.811 %	99.934 %	10.226 ppb
Concentration per Run 1	101.531 %	97.478 %	10.085 ppb	10.729 ppb	10.922 ppb	10.206 ppb	99.329 %	95.496 %	11.021 ppb
Concentration per Run 2	99.607 %	101.115 %	9.895 ppb	10.437 ppb	9.854 ppb	9.510 ppb	89.785 %	102.278 %	9.899 ppb
Concentration per Run 3	100.101 %	108.680 %	9.264 ppb	8.677 ppb	9.307 ppb	9.402 ppb	101.320 %	102.028 %	9.759 ppb
Concentration RSD	1.0 %	5.6 %	4.4 %	11.2 %	8.2 %	4.5 %	6.4 %	3.8 %	6.8 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	10.043 ppb	101.269 %	102.199 %	9.739 ppb	9.791 ppb	101.782 %	101.758 %	100.529 %	102.704 %
Concentration per Run 1	10.609 ppb	101.892 %	96.899 %	10.521 ppb	10.668 ppb	103.647 %	92.511 %	97.393 %	96.634 %
Concentration per Run 2	9.766 ppb	99.556 %	104.493 %	9.418 ppb	9.423 ppb	101.520 %	105.192 %	102.938 %	105.613 %
Concentration per Run 3	9.753 ppb	102.360 %	105.203 %	9.279 ppb	9.281 ppb	100.180 %	107.572 %	101.257 %	105.864 %
Concentration RSD	4.9 %	1.5 %	4.5 %	7.0 %	7.8 %	1.7 %	8.0 %	2.8 %	5.1 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	7.611 ppb	10.005 ppb	98.661 %	100.179 %
Concentration per Run 1	7.505 ppb	10.810 ppb	98.274 %	93.789 %
Concentration per Run 2	7.612 ppb	9.800 ppb	97.947 %	102.435 %
Concentration per Run 3	7.714 ppb	9.407 ppb	99.761 %	104.315 %
Concentration RSD	1.4 %	7.2 %	1.0 %	5.6 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	7	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	60/6000 Cal	Rack	0		
Analysis started at:	6/11/2024 1:45:03 PM	Vial	5		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	96.253 %	99.101 %	60.435 ppb	5,913.258 ppb	6,063.881 ppb	59.829 ppb	6,111.518 ppb	6,343.864 ppb	100.127 %
Concentration per Run 1	96.700 %	94.853 %	60.722 ppb	6,157.955 ppb	6,369.678 ppb	62.605 ppb	6,342.021 ppb	6,651.139 ppb	98.521 %
Concentration per Run 2	95.935 %	101.961 %	60.139 ppb	5,792.281 ppb	5,889.229 ppb	57.648 ppb	6,006.415 ppb	6,228.495 ppb	102.257 %
Concentration per Run 3	96.124 %	100.490 %	60.444 ppb	5,789.538 ppb	5,932.736 ppb	59.233 ppb	5,986.119 ppb	6,151.959 ppb	99.602 %
Concentration RSD	0.4 %	3.8 %	0.5 %	3.6 %	4.4 %	4.2 %	3.3 %	4.2 %	1.9 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	103.321 %	62.041 ppb	61.954 ppb	61.606 ppb	6,167.279 ppb	62.336 ppb	61.809 ppb	61.099 ppb	61.743 ppb
Concentration per Run 1	101.067 %	64.427 ppb	64.309 ppb	65.013 ppb	6,519.228 ppb	66.798 ppb	67.186 ppb	66.529 ppb	65.426 ppb
Concentration per Run 2	105.052 %	59.848 ppb	61.681 ppb	59.513 ppb	5,963.116 ppb	58.224 ppb	58.277 ppb	57.674 ppb	58.708 ppb
Concentration per Run 3	103.843 %	61.848 ppb	59.871 ppb	60.291 ppb	6,019.494 ppb	61.987 ppb	59.963 ppb	59.093 ppb	61.095 ppb
Concentration RSD	2.0 %	3.7 %	3.6 %	4.8 %	5.0 %	6.9 %	7.7 %	7.8 %	5.5 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	102.406 %	100.471 %	60.147 ppb	60.990 ppb	60.053 ppb	59.654 ppb	98.305 %	96.636 %	60.876 ppb
Concentration per Run 1	101.981 %	93.886 %	65.556 ppb	65.690 ppb	62.488 ppb	63.821 ppb	98.124 %	92.449 %	64.735 ppb
Concentration per Run 2	103.295 %	105.216 %	56.411 ppb	57.975 ppb	57.669 ppb	58.559 ppb	98.741 %	98.126 %	59.883 ppb
Concentration per Run 3	101.941 %	102.310 %	58.475 ppb	59.306 ppb	60.003 ppb	56.582 ppb	98.049 %	99.335 %	58.009 ppb
Concentration RSD	0.8 %	5.9 %	8.0 %	6.8 %	4.0 %	6.3 %	0.4 %	3.8 %	5.7 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	60.689 ppb	98.162 %	99.037 %	60.704 ppb	60.035 ppb	100.811 %	99.298 %	100.055 %	101.072 %
Concentration per Run 1	65.193 ppb	97.250 %	92.855 %	64.999 ppb	63.519 ppb	99.970 %	93.026 %	99.463 %	93.133 %
Concentration per Run 2	58.945 ppb	97.479 %	100.652 %	60.118 ppb	59.155 ppb	101.077 %	101.594 %	98.810 %	105.376 %
Concentration per Run 3	57.929 ppb	99.756 %	103.605 %	56.996 ppb	57.431 ppb	101.385 %	103.272 %	101.892 %	104.706 %
Concentration RSD	6.5 %	1.4 %	5.6 %	6.6 %	5.2 %	0.7 %	5.5 %	1.6 %	6.8 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	61.736 ppb	59.999 ppb	95.508 %	96.670 %
Concentration per Run 1	63.265 ppb	64.684 ppb	94.659 %	89.747 %
Concentration per Run 2	60.171 ppb	58.808 ppb	96.124 %	98.016 %
Concentration per Run 3	61.771 ppb	56.504 ppb	95.740 %	102.246 %
Concentration RSD	2.5 %	7.0 %	0.8 %	6.6 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	8	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	120/120000 Cal	Rack	0		
Analysis started at:	6/11/2024 1:49:46 PM	Vial	6		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	95.396 %	92.238 %	119.803 ppb	12,039.725 ppb	11,964.616 ppb	122.864 ppb	11,936.612 ppb	11,814.471 ppb	104.494 %
Concentration per Run 1	95.057 %	91.912 %	120.776 ppb	12,479.152 ppb	12,222.266 ppb	130.843 ppb	12,216.383 ppb	12,247.383 ppb	105.253 %
Concentration per Run 2	95.154 %	86.520 %	119.711 ppb	12,117.283 ppb	12,192.971 ppb	117.677 ppb	11,685.033 ppb	11,532.079 ppb	102.584 %
Concentration per Run 3	95.978 %	98.284 %	118.921 ppb	11,522.740 ppb	11,478.612 ppb	117.492 ppb	11,908.421 ppb	11,663.952 ppb	105.645 %
Concentration RSD	0.5 %	6.4 %	0.8 %	4.0 %	3.5 %	6.6 %	2.2 %	3.2 %	1.6 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	107.282 %	118.939 ppb	118.970 ppb	119.129 ppb	11,909.361 ppb	118.770 ppb	119.031 ppb	119.407 ppb	119.073 ppb
Concentration per Run 1	104.430 %	123.164 ppb	125.359 ppb	125.956 ppb	12,480.689 ppb	126.415 ppb	127.471 ppb	128.502 ppb	127.039 ppb
Concentration per Run 2	110.976 %	113.685 ppb	114.245 ppb	114.288 ppb	11,666.110 ppb	114.481 ppb	115.074 ppb	115.268 ppb	114.713 ppb
Concentration per Run 3	106.440 %	119.967 ppb	117.305 ppb	117.143 ppb	11,581.283 ppb	115.413 ppb	114.548 ppb	114.452 ppb	115.468 ppb
Concentration RSD	3.1 %	4.1 %	4.8 %	5.1 %	4.2 %	5.6 %	6.1 %	6.6 %	5.8 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	103.380 %	102.761 %	119.947 ppb	119.509 ppb	119.971 ppb	120.198 ppb	95.245 %	96.518 %	119.543 ppb
Concentration per Run 1	103.050 %	95.072 %	129.071 ppb	129.805 ppb	128.157 ppb	126.549 ppb	93.564 %	90.753 %	126.316 ppb
Concentration per Run 2	102.102 %	105.926 %	116.761 ppb	115.454 ppb	114.583 ppb	117.764 ppb	95.398 %	98.657 %	115.737 ppb
Concentration per Run 3	104.987 %	107.286 %	114.009 ppb	113.268 ppb	117.171 ppb	116.282 ppb	96.774 %	100.145 %	116.577 ppb
Concentration RSD	1.4 %	6.5 %	6.7 %	7.5 %	6.0 %	4.6 %	1.7 %	5.2 %	4.9 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	119.652 ppb	99.289 %	99.780 %	119.669 ppb	119.380 ppb	97.299 %	100.741 %	97.418 %	101.823 %
Concentration per Run 1	126.132 ppb	99.501 %	96.146 %	125.425 ppb	123.755 ppb	99.404 %	93.832 %	97.183 %	96.566 %
Concentration per Run 2	116.673 ppb	98.600 %	102.330 %	114.791 ppb	118.139 ppb	97.273 %	101.626 %	97.747 %	103.416 %
Concentration per Run 3	116.151 ppb	99.766 %	100.863 %	118.793 ppb	116.246 ppb	95.221 %	106.764 %	97.325 %	105.488 %
Concentration RSD	4.7 %	0.6 %	3.2 %	4.5 %	3.3 %	2.1 %	6.5 %	0.3 %	4.6 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	119.333 ppb	143.552 ppb	93.712 %	95.564 %
Concentration per Run 1	118.996 ppb	153.057 ppb	92.940 %	90.349 %
Concentration per Run 2	117.981 ppb	140.349 ppb	93.976 %	96.349 %
Concentration per Run 3	121.023 ppb	137.251 ppb	94.220 %	99.994 %
Concentration RSD	1.3 %	5.8 %	0.7 %	5.1 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	9	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	Sr 200ppb	Rack	4		
Analysis started at:	6/11/2024 1:54:37 PM	Vial	55		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	99.536 %	101.961 %	0.034 ppb	1.709 ppb	2.493 ppb	3.188 ppb	7.396 ppb	0.161 ppb	98.529 %
Concentration per Run 1	99.834 %	100.980 %	0.037 ppb	3.811 ppb	2.911 ppb	3.137 ppb	7.453 ppb	109.858 ppb	102.631 %
Concentration per Run 2	99.574 %	104.167 %	0.036 ppb	-0.038 ppb	3.615 ppb	3.840 ppb	11.128 ppb	0.949 ppb	104.103 %
Concentration per Run 3	99.198 %	100.735 %	0.030 ppb	1.354 ppb	0.953 ppb	2.586 ppb	3.606 ppb	-110.324 ppb	88.853 %
Concentration RSD	0.3 %	1.9 %	11.9 %	114.0 %	55.3 %	19.7 %	50.9 %	68,471.4 %	8.5 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	100.344 %	0.004 ppb	0.260 ppb	0.110 ppb	10.732 ppb	0.014 ppb	0.301 ppb	0.090 ppb	1.509 ppb
Concentration per Run 1	97.278 %	0.010 ppb	0.277 ppb	0.117 ppb	10.307 ppb	0.016 ppb	0.397 ppb	0.112 ppb	1.646 ppb
Concentration per Run 2	99.929 %	-0.005 ppb	0.258 ppb	0.121 ppb	11.474 ppb	0.015 ppb	0.271 ppb	0.056 ppb	1.479 ppb
Concentration per Run 3	103.825 %	0.008 ppb	0.244 ppb	0.093 ppb	10.416 ppb	0.012 ppb	0.235 ppb	0.102 ppb	1.402 ppb
Concentration RSD	3.3 %	185.8 %	6.4 %	13.9 %	6.0 %	13.5 %	28.3 %	33.5 %	8.3 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	101.390 %	101.893 %	0.004 ppb	0.174 ppb	204.384 ppb	0.342 ppb	101.542 %	102.640 %	0.014 ppb
Concentration per Run 1	101.234 %	96.502 %	-0.001 ppb	0.265 ppb	214.669 ppb	0.299 ppb	102.000 %	96.670 %	0.014 ppb
Concentration per Run 2	100.982 %	102.496 %	0.048 ppb	0.085 ppb	198.909 ppb	0.324 ppb	102.886 %	105.196 %	0.015 ppb
Concentration per Run 3	101.953 %	106.680 %	-0.036 ppb	0.170 ppb	199.575 ppb	0.401 ppb	99.741 %	106.055 %	0.013 ppb
Concentration RSD	0.5 %	5.0 %	1,116.2 %	51.9 %	4.4 %	15.6 %	1.6 %	5.1 %	7.2 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.007 ppb	102.317 %	103.716 %	0.437 ppb	0.089 ppb	99.112 %	102.189 %	99.823 %	103.120 %
Concentration per Run 1	0.011 ppb	104.738 %	99.205 %	0.391 ppb	0.108 ppb	97.421 %	97.221 %	99.305 %	95.398 %
Concentration per Run 2	0.005 ppb	102.097 %	105.899 %	0.444 ppb	0.079 ppb	100.614 %	106.040 %	101.757 %	107.174 %
Concentration per Run 3	0.005 ppb	100.117 %	106.045 %	0.477 ppb	0.080 ppb	99.303 %	103.307 %	98.408 %	106.789 %
Concentration RSD	50.8 %	2.3 %	3.8 %	10.0 %	18.5 %	1.6 %	4.4 %	1.7 %	6.5 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.339 ppb	0.021 ppb	99.901 %	101.404 %
Concentration per Run 1	0.384 ppb	0.024 ppb	98.693 %	94.798 %
Concentration per Run 2	0.317 ppb	0.021 ppb	102.683 %	103.159 %
Concentration per Run 3	0.315 ppb	0.019 ppb	98.325 %	106.254 %
Concentration RSD	11.6 %	11.0 %	2.4 %	5.8 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	10	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	ICV	Rack	0		
Analysis started at:	6/11/2024 1:59:21 PM	Vial	7		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	97.650 %	95.670 %	49.230 ppb	5,095.793 ppb	5,178.612 ppb	53.767 ppb	5,185.255 ppb	5,335.930 ppb	97.508 %
Concentration per Run 1	97.709 %	94.853 %	48.870 ppb	5,193.463 ppb	5,347.168 ppb	54.803 ppb	5,364.847 ppb	5,708.568 ppb	104.764 %
Concentration per Run 2	97.358 %	94.363 %	49.386 ppb	5,106.094 ppb	5,153.130 ppb	51.095 ppb	5,091.792 ppb	5,350.704 ppb	102.781 %
Concentration per Run 3	97.881 %	97.794 %	49.434 ppb	4,987.822 ppb	5,035.538 ppb	55.404 ppb	5,099.127 ppb	4,948.518 ppb	84.978 %
Recovery Percentage 1			98.460 %	101.916 %	103.572 %	107.535 %	103.705 %	106.719 %	
Concentration RSD	0.3 %	1.9 %	0.6 %	2.0 %	3.0 %	4.3 %	3.0 %	7.1 %	11.2 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	102.301 %	50.660 ppb	50.307 ppb	51.154 ppb	5,096.539 ppb	51.065 ppb	49.494 ppb	49.854 ppb	50.639 ppb
Concentration per Run 1	99.591 %	51.782 ppb	52.983 ppb	54.636 ppb	5,462.302 ppb	53.537 ppb	53.272 ppb	52.220 ppb	53.541 ppb
Concentration per Run 2	102.224 %	50.391 ppb	49.206 ppb	49.671 ppb	4,910.326 ppb	50.013 ppb	49.076 ppb	49.117 ppb	49.283 ppb
Concentration per Run 3	105.088 %	49.809 ppb	48.730 ppb	49.155 ppb	4,916.988 ppb	49.644 ppb	46.133 ppb	48.225 ppb	49.094 ppb
Recovery Percentage 1		101.321 %	100.613 %	102.308 %	101.931 %	102.130 %	98.987 %	99.707 %	101.278 %
Concentration RSD	2.7 %	2.0 %	4.6 %	5.9 %	6.2 %	4.2 %	7.2 %	4.2 %	5.0 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	102.077 %	105.142 %	48.302 ppb	48.454 ppb	46.779 ppb	48.154 ppb	97.946 %	98.245 %	48.988 ppb
Concentration per Run 1	101.396 %	98.178 %	51.945 ppb	51.076 ppb	48.401 ppb	50.173 ppb	97.735 %	94.524 %	52.311 ppb
Concentration per Run 2	102.184 %	108.341 %	46.505 ppb	48.276 ppb	45.889 ppb	46.004 ppb	98.380 %	99.772 %	47.301 ppb
Concentration per Run 3	102.651 %	108.908 %	46.457 ppb	46.010 ppb	46.045 ppb	48.283 ppb	97.723 %	100.440 %	47.351 ppb
Recovery Percentage 1			96.605 %	96.908 %	93.557 %	96.307 %			97.975 %
Concentration RSD	0.6 %	5.7 %	6.5 %	5.2 %	3.0 %	4.3 %	0.4 %	3.3 %	5.9 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	48.991 ppb	99.400 %	100.728 %	49.738 ppb	48.325 ppb	98.202 %	101.108 %	98.965 %	102.224 %
Concentration per Run 1	52.046 ppb	98.997 %	94.578 %	52.826 ppb	50.561 ppb	95.644 %	95.628 %	99.021 %	98.557 %
Concentration per Run 2	47.327 ppb	102.039 %	105.852 %	47.532 ppb	46.436 ppb	97.231 %	102.887 %	97.257 %	102.808 %
Concentration per Run 3	47.600 ppb	97.164 %	101.755 %	48.855 ppb	47.979 ppb	101.730 %	104.809 %	100.616 %	105.307 %
Recovery Percentage 1	97.982 %			99.475 %	96.650 %				
Concentration RSD	5.4 %	2.5 %	5.7 %	5.5 %	4.3 %	3.2 %	4.8 %	1.7 %	3.3 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	48.826 ppb	48.745 ppb	95.792 %	96.972 %
Concentration per Run 1	48.940 ppb	51.996 ppb	95.912 %	91.156 %
Concentration per Run 2	48.404 ppb	47.489 ppb	95.798 %	98.663 %
Concentration per Run 3	49.133 ppb	46.750 ppb	95.667 %	101.096 %
Recovery Percentage 1	97.651 %	97.490 %		
Concentration RSD	0.8 %	5.8 %	0.1 %	5.3 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index: 11 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: ICB Rack 0
Analysis started at: 6/11/2024 2:04:05 PM Vial 10

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	100.186 %	96.242 %	0.024 ppb	3.050 ppb	0.362 ppb	0.436 ppb	10.212 ppb	5.649 ppb	98.514 %
Concentration per Run 1	100.344 %	88.725 %	0.025 ppb	8.161 ppb	0.632 ppb	-0.661 ppb	11.726 ppb	3.490 ppb	90.463 %
Concentration per Run 2	101.509 %	98.529 %	0.022 ppb	1.717 ppb	-0.001 ppb	1.431 ppb	7.780 ppb	10.636 ppb	103.738 %
Concentration per Run 3	98.706 %	101.471 %	0.026 ppb	-0.727 ppb	0.456 ppb	0.539 ppb	11.130 ppb	2.821 ppb	101.340 %
Recovery Percentage 1			4.890 %	3.050 %	0.517 %	4.362 %	10.212 %	5.649 %	
Concentration RSD	1.4 %	6.9 %	10.0 %	150.5 %	90.2 %	240.7 %	20.8 %	76.7 %	7.2 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	100.860 %	0.017 ppb	-0.002 ppb	0.094 ppb	3.684 ppb	0.018 ppb	0.047 ppb	0.023 ppb	0.303 ppb
Concentration per Run 1	99.733 %	-0.009 ppb	0.006 ppb	0.111 ppb	3.828 ppb	0.022 ppb	0.112 ppb	0.031 ppb	0.355 ppb
Concentration per Run 2	100.053 %	0.031 ppb	-0.015 ppb	0.077 ppb	2.825 ppb	0.014 ppb	-0.017 ppb	0.006 ppb	0.274 ppb
Concentration per Run 3	102.793 %	0.030 ppb	0.002 ppb	0.093 ppb	4.399 ppb	0.018 ppb	0.046 ppb	0.033 ppb	0.281 ppb
Recovery Percentage 1		0.348 %	-0.224 %	9.394 %	7.369 %	3.576 %	2.353 %	2.347 %	6.065 %
Concentration RSD	1.7 %	132.1 %	512.8 %	18.4 %	21.6 %	22.0 %	136.9 %	64.4 %	14.8 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	102.477 %	102.159 %	0.026 ppb	0.071 ppb	0.020 ppb	0.205 ppb	101.560 %	100.352 %	0.007 ppb
Concentration per Run 1	103.949 %	95.747 %	0.002 ppb	0.054 ppb	0.023 ppb	0.202 ppb	102.714 %	95.803 %	0.007 ppb
Concentration per Run 2	103.832 %	103.192 %	0.084 ppb	0.150 ppb	0.022 ppb	0.193 ppb	101.045 %	103.368 %	0.007 ppb
Concentration per Run 3	99.652 %	107.537 %	-0.007 ppb	0.009 ppb	0.014 ppb	0.221 ppb	100.922 %	101.886 %	0.007 ppb
Recovery Percentage 1			5.281 %	1.421 %	3.940 %	10.272 %			1.773 %
Concentration RSD	2.4 %	5.8 %	188.8 %	101.9 %	24.1 %	6.8 %	1.0 %	4.0 %	3.0 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.004 ppb	103.955 %	100.707 %	0.081 ppb	0.014 ppb	100.951 %	99.803 %	99.697 %	100.930 %
Concentration per Run 1	0.002 ppb	103.919 %	94.799 %	0.068 ppb	0.012 ppb	99.486 %	93.988 %	98.928 %	95.568 %
Concentration per Run 2	0.005 ppb	103.023 %	104.126 %	0.067 ppb	0.020 ppb	101.121 %	102.758 %	100.076 %	102.854 %
Concentration per Run 3	0.005 ppb	104.923 %	103.196 %	0.108 ppb	0.010 ppb	102.245 %	102.662 %	100.087 %	104.369 %
Recovery Percentage 1				2.026 %	2.753 %				
Concentration RSD	44.2 %	0.9 %	5.1 %	28.9 %	38.4 %	1.4 %	5.0 %	0.7 %	4.7 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.298 ppb	0.018 ppb	100.539 %	99.583 %
Concentration per Run 1	0.321 ppb	0.018 ppb	101.907 %	92.307 %
Concentration per Run 2	0.296 ppb	0.018 ppb	100.121 %	99.382 %
Concentration per Run 3	0.277 ppb	0.018 ppb	99.591 %	107.059 %
Recovery Percentage 1	29.783 %	1.816 %		
Concentration RSD	7.4 %	1.8 %	1.2 %	7.4 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	12	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	ICSA	Rack	4		
Analysis started at:	6/11/2024 2:15:33 PM	Vial	53		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	88.016 %	88.317 %	0.060 ppb	232,296.520 ppb	90,926.337 ppb	98,393.278 ppb	94,826.163 ppb	284,275.133 ppb	100.804 %
Concentration per Run 1	88.014 %	91.176 %	0.063 ppb	231,279.217 ppb	92,171.103 ppb	100,261.600 ppb	93,098.077 ppb	294,539.839 ppb	89.951 %
Concentration per Run 2	88.129 %	87.010 %	0.062 ppb	233,634.349 ppb	89,800.433 ppb	97,997.869 ppb	96,172.695 ppb	278,862.091 ppb	106.734 %
Concentration per Run 3	87.906 %	86.765 %	0.056 ppb	231,975.995 ppb	90,807.474 ppb	96,920.364 ppb	95,207.717 ppb	279,423.469 ppb	105.728 %
Recovery Percentage 1			6.034 %	92.919 %	90.926 %	98.393 %	94.826 %	94.758 %	
Concentration RSD	0.1 %	2.8 %	6.5 %	0.5 %	1.3 %	1.7 %	1.7 %	3.1 %	9.3 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	113.817 %	0.105 ppb	1.563 ppb	4.513 ppb	235,720.529 ppb	2.035 ppb	2.842 ppb	1.022 ppb	2.992 ppb
Concentration per Run 1	112.631 %	0.104 ppb	1.616 ppb	4.640 ppb	244,926.848 ppb	2.199 ppb	3.066 ppb	1.011 ppb	2.865 ppb
Concentration per Run 2	115.584 %	0.136 ppb	1.502 ppb	4.375 ppb	229,109.784 ppb	1.868 ppb	2.743 ppb	0.998 ppb	2.973 ppb
Concentration per Run 3	113.236 %	0.075 ppb	1.570 ppb	4.523 ppb	233,124.955 ppb	2.038 ppb	2.717 ppb	1.056 ppb	3.139 ppb
Recovery Percentage 1		2.103 %	47.356 %	79.172 %	94.288 %	70.917 %	46.588 %	36.233 %	26.248 %
Concentration RSD	1.4 %	29.3 %	3.7 %	2.9 %	3.5 %	8.1 %	6.8 %	3.0 %	4.6 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	103.974 %	108.329 %	0.480 ppb	4.371 ppb	2.515 ppb	**2,412.687 ppb**	78.454 %	87.273 %	0.027 ppb
Concentration per Run 1	104.289 %	105.534 %	0.564 ppb	4.557 ppb	2.687 ppb	2,535.491 ppb	77.680 %	83.578 %	0.031 ppb
Concentration per Run 2	103.814 %	111.255 %	0.337 ppb	4.385 ppb	2.274 ppb	2,341.355 ppb	78.724 %	88.482 %	0.026 ppb
Concentration per Run 3	103.819 %	108.196 %	0.538 ppb	4.172 ppb	2.585 ppb	2,361.215 ppb	78.957 %	89.758 %	0.023 ppb
Recovery Percentage 1			29.422 %	33.887 %	93.164 %	120.634 %			3.339 %
Concentration RSD	0.3 %	2.6 %	26.0 %	4.4 %	8.5 %	4.4 %	0.9 %	3.7 %	13.6 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.360 ppb	77.574 %	95.410 %	0.275 ppb	1.336 ppb	86.348 %	93.263 %	82.070 %	98.147 %
Concentration per Run 1	0.367 ppb	75.883 %	91.818 %	0.268 ppb	1.442 ppb	85.516 %	89.661 %	78.637 %	93.027 %
Concentration per Run 2	0.359 ppb	77.508 %	97.600 %	0.260 ppb	1.344 ppb	88.114 %	93.759 %	81.090 %	99.232 %
Concentration per Run 3	0.354 ppb	79.332 %	96.814 %	0.296 ppb	1.222 ppb	85.414 %	96.371 %	86.483 %	102.182 %
Recovery Percentage 1	90.017 %			3.437 %	71.062 %				
Concentration RSD	1.9 %	2.2 %	3.3 %	6.8 %	8.2 %	1.8 %	3.6 %	4.9 %	4.8 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.111 ppb	1.619 ppb	77.356 %	83.786 %
Concentration per Run 1	0.111 ppb	1.707 ppb	78.166 %	80.022 %
Concentration per Run 2	0.110 ppb	1.583 ppb	75.834 %	86.234 %
Concentration per Run 3	0.113 ppb	1.567 ppb	78.068 %	85.100 %
Recovery Percentage 1	5.568 %	52.220 %		
Concentration RSD	1.2 %	4.7 %	1.7 %	3.9 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	13	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	Rinse	Rack	0		
Analysis started at:	6/11/2024 2:20:17 PM	Vial	1		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	98.217 %	95.997 %	0.012 ppb	15.825 ppb	7.874 ppb	4.729 ppb	16.141 ppb	11.265 ppb	101.476 %
Concentration per Run 1	98.202 %	85.294 %	0.012 ppb	26.055 ppb	10.970 ppb	7.417 ppb	23.031 ppb	21.549 ppb	102.133 %
Concentration per Run 2	98.677 %	101.716 %	0.011 ppb	9.836 ppb	7.227 ppb	3.789 ppb	16.338 ppb	-0.834 ppb	101.469 %
Concentration per Run 3	97.772 %	100.980 %	0.011 ppb	11.583 ppb	5.425 ppb	2.982 ppb	9.052 ppb	13.081 ppb	100.824 %
Concentration RSD	0.5 %	9.7 %	5.7 %	56.3 %	35.9 %	50.0 %	43.3 %	100.3 %	0.6 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	103.012 %	0.002 ppb	-0.009 ppb	0.053 ppb	28.846 ppb	0.011 ppb	0.046 ppb	0.040 ppb	0.392 ppb
Concentration per Run 1	100.747 %	0.013 ppb	0.003 ppb	0.059 ppb	36.233 ppb	0.011 ppb	0.132 ppb	0.025 ppb	0.433 ppb
Concentration per Run 2	104.020 %	-0.005 ppb	-0.016 ppb	0.047 ppb	27.086 ppb	0.008 ppb	-0.005 ppb	0.034 ppb	0.356 ppb
Concentration per Run 3	104.270 %	-0.001 ppb	-0.014 ppb	0.054 ppb	23.219 ppb	0.015 ppb	0.011 ppb	0.062 ppb	0.387 ppb
Concentration RSD	1.9 %	447.9 %	116.7 %	10.9 %	23.2 %	33.7 %	163.0 %	48.4 %	9.9 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	101.296 %	104.752 %	-0.024 ppb	0.069 ppb	0.010 ppb	2.596 ppb	99.112 %	102.474 %	0.002 ppb
Concentration per Run 1	101.440 %	98.575 %	-0.062 ppb	0.054 ppb	0.017 ppb	2.471 ppb	99.465 %	96.169 %	0.002 ppb
Concentration per Run 2	101.248 %	105.780 %	-0.015 ppb	0.079 ppb	0.003 ppb	2.613 ppb	99.046 %	104.172 %	0.002 ppb
Concentration per Run 3	101.200 %	109.899 %	0.005 ppb	0.074 ppb	0.010 ppb	2.705 ppb	98.825 %	107.081 %	0.003 ppb
Concentration RSD	0.1 %	5.5 %	144.0 %	18.7 %	69.1 %	4.5 %	0.3 %	5.5 %	19.3 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.001 ppb	99.385 %	104.021 %	-0.011 ppb	0.028 ppb	96.635 %	101.585 %	96.217 %	103.656 %
Concentration per Run 1	0.004 ppb	98.433 %	99.756 %	-0.015 ppb	0.022 ppb	95.749 %	94.961 %	96.586 %	97.219 %
Concentration per Run 2	0.000 ppb	100.219 %	106.668 %	-0.013 ppb	0.029 ppb	95.623 %	106.726 %	95.715 %	107.796 %
Concentration per Run 3	0.001 ppb	99.504 %	105.639 %	-0.003 ppb	0.035 ppb	98.533 %	103.068 %	96.349 %	105.952 %
Concentration RSD	161.7 %	0.9 %	3.6 %	59.4 %	22.3 %	1.7 %	5.9 %	0.5 %	5.5 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.044 ppb	0.015 ppb	96.132 %	101.655 %
Concentration per Run 1	0.046 ppb	0.017 ppb	95.458 %	95.454 %
Concentration per Run 2	0.044 ppb	0.014 ppb	96.416 %	102.096 %
Concentration per Run 3	0.041 ppb	0.015 ppb	96.523 %	107.415 %
Concentration RSD	5.5 %	10.8 %	0.6 %	5.9 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	14	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	6/11/2024 2:24:57 PM	Vial	9		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	94.780 %	93.872 %	60.736 ppb	6,403.237 ppb	6,462.282 ppb	64.751 ppb	6,280.497 ppb	6,241.390 ppb	100.673 %
Concentration per Run 1	95.205 %	85.049 %	60.834 ppb	6,959.522 ppb	7,090.575 ppb	71.675 ppb	6,657.695 ppb	6,712.551 ppb	101.505 %
Concentration per Run 2	94.394 %	93.382 %	61.115 ppb	6,237.251 ppb	6,361.686 ppb	63.234 ppb	6,126.103 ppb	6,244.439 ppb	100.089 %
Concentration per Run 3	94.741 %	103.186 %	60.259 ppb	6,012.938 ppb	5,934.586 ppb	59.344 ppb	6,057.693 ppb	5,767.181 ppb	100.424 %
Recovery Percentage 1			101.227 %	106.721 %	107.705 %	107.918 %	104.675 %	104.023 %	
Concentration RSD	0.4 %	9.7 %	0.7 %	7.7 %	9.0 %	9.7 %	5.2 %	7.6 %	0.7 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	100.629 %	65.225 ppb	64.280 ppb	65.179 ppb	6,426.830 ppb	64.709 ppb	63.471 ppb	62.154 ppb	63.532 ppb
Concentration per Run 1	98.363 %	67.793 ppb	67.389 ppb	67.752 ppb	6,706.406 ppb	68.233 ppb	66.525 ppb	65.832 ppb	66.715 ppb
Concentration per Run 2	101.743 %	64.292 ppb	62.999 ppb	64.184 ppb	6,297.130 ppb	63.124 ppb	62.640 ppb	59.283 ppb	61.766 ppb
Concentration per Run 3	101.779 %	63.591 ppb	62.452 ppb	63.599 ppb	6,276.954 ppb	62.772 ppb	61.248 ppb	61.349 ppb	62.113 ppb
Recovery Percentage 1		108.708 %	107.133 %	108.631 %	107.114 %	107.849 %	105.786 %	103.591 %	105.886 %
Concentration RSD	1.9 %	3.5 %	4.2 %	3.4 %	3.8 %	4.7 %	4.3 %	5.4 %	4.3 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	101.470 %	103.006 %	59.708 ppb	61.174 ppb	61.558 ppb	61.019 ppb	95.329 %	96.835 %	61.298 ppb
Concentration per Run 1	101.692 %	97.696 %	63.763 ppb	65.960 ppb	64.174 ppb	63.927 ppb	94.805 %	91.608 %	65.790 ppb
Concentration per Run 2	101.338 %	104.700 %	58.120 ppb	59.266 ppb	60.559 ppb	60.201 ppb	96.890 %	97.670 %	59.131 ppb
Concentration per Run 3	101.381 %	106.622 %	57.240 ppb	58.296 ppb	59.939 ppb	58.931 ppb	94.293 %	101.226 %	58.973 ppb
Recovery Percentage 1			99.513 %	101.957 %	102.596 %	101.699 %			102.163 %
Concentration RSD	0.2 %	4.6 %	5.9 %	6.8 %	3.7 %	4.3 %	1.4 %	5.0 %	6.3 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	60.639 ppb	97.149 %	101.151 %	57.738 ppb	61.031 ppb	96.701 %	98.661 %	95.534 %	101.299 %
Concentration per Run 1	64.573 ppb	96.866 %	95.206 %	60.652 ppb	65.206 ppb	96.541 %	94.152 %	94.347 %	95.932 %
Concentration per Run 2	59.064 ppb	98.459 %	103.865 %	56.101 ppb	59.218 ppb	99.310 %	99.242 %	96.681 %	101.690 %
Concentration per Run 3	58.279 ppb	96.123 %	104.383 %	56.460 ppb	58.670 ppb	94.251 %	102.591 %	95.573 %	106.274 %
Recovery Percentage 1	101.064 %			96.230 %	101.719 %				
Concentration RSD	5.7 %	1.2 %	5.1 %	4.4 %	5.9 %	2.6 %	4.3 %	1.2 %	5.1 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	61.723 ppb	59.949 ppb	91.964 %	94.874 %
Concentration per Run 1	61.542 ppb	65.310 ppb	91.127 %	88.597 %
Concentration per Run 2	62.508 ppb	57.696 ppb	92.053 %	95.749 %
Concentration per Run 3	61.120 ppb	56.842 ppb	92.711 %	100.276 %
Recovery Percentage 1	102.872 %	99.916 %		
Concentration RSD	1.2 %	7.8 %	0.9 %	6.2 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	15	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/11/2024 2:29:41 PM	Vial	10		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	96.468 %	97.386 %	0.022 ppb	6.947 ppb	2.140 ppb	1.372 ppb	8.693 ppb	6.261 ppb	97.450 %
Concentration per Run 1	96.774 %	90.931 %	0.025 ppb	9.075 ppb	3.264 ppb	2.996 ppb	17.533 ppb	7.457 ppb	98.728 %
Concentration per Run 2	96.639 %	91.667 %	0.019 ppb	7.838 ppb	1.134 ppb	0.209 ppb	-0.248 ppb	2.245 ppb	95.362 %
Concentration per Run 3	95.991 %	109.559 %	0.021 ppb	3.928 ppb	2.023 ppb	0.911 ppb	8.794 ppb	9.081 ppb	98.262 %
Recovery Percentage 1			4.346 %	6.947 %	3.057 %	13.720 %	8.693 %	6.261 %	
Concentration RSD	0.4 %	10.8 %	13.5 %	38.7 %	50.0 %	105.6 %	102.3 %	57.0 %	1.9 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	97.397 %	-0.003 ppb	0.013 ppb	0.088 ppb	7.173 ppb	0.004 ppb	0.034 ppb	0.030 ppb	0.477 ppb
Concentration per Run 1	93.205 %	0.006 ppb	0.019 ppb	0.100 ppb	7.411 ppb	0.006 ppb	0.063 ppb	0.024 ppb	0.519 ppb
Concentration per Run 2	99.520 %	-0.005 ppb	0.012 ppb	0.084 ppb	7.789 ppb	0.001 ppb	0.042 ppb	0.024 ppb	0.452 ppb
Concentration per Run 3	99.466 %	-0.009 ppb	0.006 ppb	0.082 ppb	6.317 ppb	0.006 ppb	-0.001 ppb	0.042 ppb	0.460 ppb
Recovery Percentage 1		-0.054 %	1.270 %	8.850 %	14.345 %	0.882 %	1.719 %	3.030 %	9.541 %
Concentration RSD	3.7 %	297.8 %	50.5 %	11.0 %	10.7 %	65.3 %	94.4 %	34.1 %	7.7 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	99.249 %	102.752 %	0.020 ppb	0.078 ppb	0.014 ppb	0.407 ppb	94.623 %	98.477 %	0.007 ppb
Concentration per Run 1	101.689 %	96.995 %	0.065 ppb	0.196 ppb	0.034 ppb	0.318 ppb	88.339 %	91.976 %	0.008 ppb
Concentration per Run 2	99.218 %	106.578 %	-0.019 ppb	-0.003 ppb	-0.009 ppb	0.458 ppb	97.639 %	100.436 %	0.006 ppb
Concentration per Run 3	96.840 %	104.682 %	0.015 ppb	0.040 ppb	0.017 ppb	0.445 ppb	97.892 %	103.021 %	0.005 ppb
Recovery Percentage 1			4.099 %	1.556 %	2.746 %	20.354 %			1.641 %
Concentration RSD	2.4 %	4.9 %	204.9 %	134.6 %	158.4 %	19.0 %	5.8 %	5.9 %	25.2 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.004 ppb	98.874 %	101.604 %	0.797 ppb	0.023 ppb	96.564 %	99.058 %	94.763 %	101.269 %
Concentration per Run 1	0.004 ppb	100.019 %	93.654 %	0.719 ppb	0.029 ppb	98.326 %	92.187 %	94.523 %	95.849 %
Concentration per Run 2	0.005 ppb	99.714 %	104.935 %	0.811 ppb	0.015 ppb	96.527 %	100.706 %	95.020 %	104.123 %
Concentration per Run 3	0.002 ppb	96.888 %	106.224 %	0.861 ppb	0.024 ppb	94.839 %	104.280 %	94.746 %	103.833 %
Recovery Percentage 1				19.926 %	4.561 %				
Concentration RSD	47.0 %	1.7 %	6.8 %	9.1 %	32.6 %	1.8 %	6.3 %	0.3 %	4.6 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.129 ppb	0.013 ppb	94.648 %	97.727 %
Concentration per Run 1	0.141 ppb	0.015 ppb	94.945 %	92.183 %
Concentration per Run 2	0.131 ppb	0.013 ppb	95.777 %	99.242 %
Concentration per Run 3	0.114 ppb	0.012 ppb	93.222 %	101.756 %
Recovery Percentage 1	12.866 %	1.318 %		
Concentration RSD	10.6 %	11.1 %	1.4 %	5.1 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	16	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	WG1931192-1 2008SL	Rack	1		
Analysis started at:	6/11/2024 2:38:03 PM	Vial	1		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	99.414 %	100.980 %	0.011 ppb	-1.885 ppb	1.421 ppb	2.102 ppb	7.177 ppb	-4.739 ppb	101.218 %
Concentration per Run 1	99.806 %	102.941 %	0.012 ppb	-2.037 ppb	0.914 ppb	3.338 ppb	4.228 ppb	-4.275 ppb	100.904 %
Concentration per Run 2	99.481 %	107.598 %	0.011 ppb	-4.531 ppb	0.967 ppb	1.991 ppb	9.840 ppb	-8.369 ppb	102.007 %
Concentration per Run 3	98.956 %	92.402 %	0.010 ppb	0.913 ppb	2.383 ppb	0.977 ppb	7.461 ppb	-1.572 ppb	100.743 %
Concentration RSD	0.4 %	7.7 %	7.6 %	144.6 %	58.6 %	56.3 %	39.2 %	72.2 %	0.7 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	107.383 %	-0.017 ppb	-0.043 ppb	0.001 ppb	1.514 ppb	0.006 ppb	-0.051 ppb	0.048 ppb	0.114 ppb
Concentration per Run 1	104.821 %	-0.019 ppb	-0.056 ppb	0.007 ppb	1.497 ppb	0.009 ppb	-0.041 ppb	0.060 ppb	0.102 ppb
Concentration per Run 2	109.286 %	-0.023 ppb	-0.044 ppb	-0.009 ppb	1.568 ppb	0.006 ppb	-0.079 ppb	0.038 ppb	0.131 ppb
Concentration per Run 3	108.041 %	-0.010 ppb	-0.028 ppb	0.006 ppb	1.478 ppb	0.003 ppb	-0.033 ppb	0.046 ppb	0.108 ppb
Concentration RSD	2.1 %	37.2 %	32.4 %	605.2 %	3.1 %	47.5 %	48.8 %	23.0 %	13.5 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	102.863 %	107.269 %	-0.006 ppb	0.099 ppb	0.002 ppb	0.102 ppb	99.201 %	104.540 %	0.001 ppb
Concentration per Run 1	104.102 %	104.870 %	0.002 ppb	0.076 ppb	-0.016 ppb	0.079 ppb	101.239 %	100.209 %	0.000 ppb
Concentration per Run 2	101.935 %	108.485 %	-0.014 ppb	0.113 ppb	0.004 ppb	0.094 ppb	97.663 %	106.321 %	0.001 ppb
Concentration per Run 3	102.550 %	108.453 %	-0.005 ppb	0.109 ppb	0.019 ppb	0.132 ppb	98.699 %	107.092 %	0.001 ppb
Concentration RSD	1.1 %	1.9 %	137.2 %	20.4 %	740.7 %	26.5 %	1.9 %	3.6 %	88.7 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.000 ppb	100.142 %	105.516 %	0.086 ppb	0.023 ppb	97.348 %	102.898 %	94.557 %	107.602 %
Concentration per Run 1	0.001 ppb	98.907 %	102.595 %	0.063 ppb	0.026 ppb	99.103 %	100.816 %	96.430 %	105.329 %
Concentration per Run 2	0.000 ppb	102.114 %	107.983 %	0.088 ppb	0.014 ppb	95.480 %	105.197 %	93.303 %	108.791 %
Concentration per Run 3	0.000 ppb	99.405 %	105.970 %	0.109 ppb	0.030 ppb	97.462 %	102.681 %	93.939 %	108.685 %
Concentration RSD	2,202.5 %	1.7 %	2.6 %	26.9 %	35.9 %	1.9 %	2.1 %	1.7 %	1.8 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.033 ppb	0.005 ppb	97.118 %	102.467 %
Concentration per Run 1	0.032 ppb	0.004 ppb	98.853 %	100.049 %
Concentration per Run 2	0.036 ppb	0.004 ppb	96.049 %	103.186 %
Concentration per Run 3	0.030 ppb	0.006 ppb	96.451 %	104.167 %
Concentration RSD	9.7 %	14.3 %	1.6 %	2.1 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	17	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	WG1931192-2d10 2008SL	Rack	1		
Analysis started at:	6/11/2024 2:42:43 PM	Vial	2		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	97.088 %	101.389 %	5.056 ppb	1,060.844 ppb	1,036.766 ppb	206.461 ppb	1,126.290 ppb	1,100.373 ppb	94.505 %
Concentration per Run 1	98.322 %	95.098 %	4.989 ppb	1,131.204 ppb	1,107.975 ppb	217.202 ppb	1,160.116 ppb	1,163.538 ppb	100.815 %
Concentration per Run 2	96.744 %	106.863 %	5.038 ppb	1,017.527 ppb	979.978 ppb	198.600 ppb	1,087.719 ppb	1,108.362 ppb	84.888 %
Concentration per Run 3	96.199 %	102.206 %	5.140 ppb	1,033.800 ppb	1,022.345 ppb	203.580 ppb	1,131.036 ppb	1,029.220 ppb	97.812 %
Concentration RSD	1.1 %	5.8 %	1.5 %	5.8 %	6.3 %	4.7 %	3.2 %	6.1 %	9.0 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	98.263 %	52.698 ppb	21.114 ppb	54.363 ppb	112.101 ppb	53.238 ppb	52.632 ppb	25.639 ppb	51.953 ppb
Concentration per Run 1	96.745 %	55.295 ppb	21.928 ppb	57.247 ppb	112.117 ppb	57.367 ppb	55.417 ppb	27.193 ppb	55.156 ppb
Concentration per Run 2	98.577 %	51.342 ppb	21.013 ppb	53.254 ppb	110.593 ppb	51.976 ppb	52.167 ppb	25.257 ppb	51.067 ppb
Concentration per Run 3	99.466 %	51.458 ppb	20.402 ppb	52.587 ppb	113.593 ppb	50.370 ppb	50.314 ppb	24.467 ppb	49.636 ppb
Concentration RSD	1.4 %	4.3 %	3.6 %	4.6 %	1.3 %	6.9 %	4.9 %	5.5 %	5.5 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	100.327 %	102.903 %	12.782 ppb	12.278 ppb	98.714 ppb	94.528 ppb	97.146 %	98.688 %	5.056 ppb
Concentration per Run 1	102.011 %	95.712 %	13.826 ppb	13.239 ppb	104.936 ppb	103.150 ppb	98.062 %	93.183 %	5.417 ppb
Concentration per Run 2	99.755 %	104.104 %	12.595 ppb	11.273 ppb	96.265 ppb	90.932 ppb	95.639 %	100.210 %	4.929 ppb
Concentration per Run 3	99.215 %	108.893 %	11.924 ppb	12.323 ppb	94.942 ppb	89.502 ppb	97.737 %	102.670 %	4.821 ppb
Concentration RSD	1.5 %	6.5 %	7.5 %	8.0 %	5.5 %	7.9 %	1.4 %	5.0 %	6.3 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	5.331 ppb	99.916 %	103.250 %	47.982 ppb	194.964 ppb	97.680 %	98.979 %	96.463 %	101.315 %
Concentration per Run 1	5.601 ppb	100.388 %	95.983 %	51.130 ppb	206.194 ppb	97.520 %	94.357 %	97.351 %	96.821 %
Concentration per Run 2	5.257 ppb	100.573 %	105.611 %	46.684 ppb	189.529 ppb	98.990 %	101.186 %	97.157 %	102.773 %
Concentration per Run 3	5.136 ppb	98.787 %	108.156 %	46.131 ppb	189.168 ppb	96.532 %	101.395 %	94.883 %	104.350 %
Concentration RSD	4.5 %	1.0 %	6.2 %	5.7 %	5.0 %	1.3 %	4.0 %	1.4 %	3.9 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	9.976 ppb	54.861 ppb	93.327 %	95.308 %
Concentration per Run 1	9.822 ppb	57.346 ppb	95.041 %	90.497 %
Concentration per Run 2	9.839 ppb	54.067 ppb	93.109 %	96.204 %
Concentration per Run 3	10.266 ppb	53.169 ppb	91.830 %	99.224 %
Concentration RSD	2.5 %	4.0 %	1.7 %	4.7 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	18	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2430543-01 2008SL	Rack	1		
Analysis started at:	6/11/2024 2:47:23 PM	Vial	3		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	96.189 %	101.471 %	0.020 ppb	11,313.324 ppb	3,034.938 ppb	35.106 ppb	2,783.211 ppb	21,617.062 ppb	101.737 %
Concentration per Run 1	95.994 %	102.941 %	0.020 ppb	11,494.312 ppb	3,106.035 ppb	30.350 ppb	2,926.272 ppb	22,617.146 ppb	107.433 %
Concentration per Run 2	96.304 %	105.392 %	0.021 ppb	11,120.567 ppb	3,006.490 ppb	35.045 ppb	2,763.849 ppb	21,100.378 ppb	106.023 %
Concentration per Run 3	96.269 %	96.078 %	0.019 ppb	11,325.093 ppb	2,992.289 ppb	39.924 ppb	2,659.513 ppb	21,133.661 ppb	91.756 %
Concentration RSD	0.2 %	4.8 %	5.8 %	1.7 %	2.0 %	13.6 %	4.8 %	4.0 %	8.5 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	101.625 %	0.893 ppb	0.158 ppb	56.346 ppb	23.979 ppb	0.050 ppb	0.195 ppb	1.413 ppb	2.277 ppb
Concentration per Run 1	97.688 %	0.958 ppb	0.198 ppb	60.373 ppb	26.197 ppb	0.054 ppb	0.208 ppb	1.496 ppb	2.373 ppb
Concentration per Run 2	99.484 %	0.903 ppb	0.137 ppb	55.371 ppb	22.507 ppb	0.050 ppb	0.221 ppb	1.465 ppb	2.231 ppb
Concentration per Run 3	107.703 %	0.819 ppb	0.141 ppb	53.293 ppb	23.232 ppb	0.046 ppb	0.155 ppb	1.279 ppb	2.228 ppb
Concentration RSD	5.3 %	7.8 %	21.6 %	6.5 %	8.2 %	8.0 %	17.9 %	8.3 %	3.7 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	104.247 %	104.060 %	7.041 ppb	0.096 ppb	261.306 ppb	16.230 ppb	97.175 %	97.672 %	0.002 ppb
Concentration per Run 1	104.385 %	98.435 %	7.572 ppb	0.194 ppb	279.333 ppb	17.553 ppb	97.195 %	90.457 %	0.003 ppb
Concentration per Run 2	103.335 %	107.623 %	6.785 ppb	0.049 ppb	250.464 ppb	15.351 ppb	98.763 %	98.863 %	0.003 ppb
Concentration per Run 3	105.019 %	106.123 %	6.765 ppb	0.044 ppb	254.120 ppb	15.785 ppb	95.566 %	103.696 %	0.002 ppb
Concentration RSD	0.8 %	4.7 %	6.5 %	88.8 %	6.0 %	7.2 %	1.6 %	6.9 %	30.0 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.002 ppb	99.448 %	100.449 %	0.904 ppb	13.038 ppb	97.695 %	101.095 %	98.544 %	102.923 %
Concentration per Run 1	0.002 ppb	99.071 %	93.486 %	0.834 ppb	14.343 ppb	98.534 %	94.797 %	97.770 %	97.766 %
Concentration per Run 2	0.002 ppb	98.711 %	102.277 %	0.932 ppb	12.549 ppb	96.499 %	103.112 %	99.690 %	106.083 %
Concentration per Run 3	0.003 ppb	100.563 %	105.584 %	0.945 ppb	12.222 ppb	98.052 %	105.376 %	98.172 %	104.920 %
Concentration RSD	23.5 %	1.0 %	6.2 %	6.8 %	8.8 %	1.1 %	5.5 %	1.0 %	4.4 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.032 ppb	0.070 ppb	93.904 %	96.820 %
Concentration per Run 1	0.033 ppb	0.075 ppb	92.184 %	91.028 %
Concentration per Run 2	0.029 ppb	0.072 ppb	97.167 %	97.678 %
Concentration per Run 3	0.035 ppb	0.064 ppb	92.361 %	101.753 %
Concentration RSD	10.2 %	7.5 %	3.0 %	5.6 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	19	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	WG1931192-3d10 2008SL	Rack	1		
Analysis started at:	6/11/2024 2:52:04 PM	Vial	4		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	97.278 %	100.409 %	4.795 ppb	2,235.221 ppb	1,339.927 ppb	189.637 ppb	1,376.883 ppb	3,338.257 ppb	100.651 %
Concentration per Run 1	98.307 %	93.627 %	4.773 ppb	2,374.541 ppb	1,428.984 ppb	189.483 ppb	1,426.219 ppb	3,338.337 ppb	100.400 %
Concentration per Run 2	97.501 %	97.549 %	4.786 ppb	2,264.501 ppb	1,360.964 ppb	195.655 ppb	1,369.182 ppb	3,434.682 ppb	101.980 %
Concentration per Run 3	96.026 %	110.049 %	4.827 ppb	2,066.621 ppb	1,229.832 ppb	183.772 ppb	1,335.247 ppb	3,241.751 ppb	99.573 %
Concentration RSD	1.2 %	8.5 %	0.6 %	7.0 %	7.6 %	3.1 %	3.3 %	2.9 %	1.2 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	101.714 %	49.263 ppb	19.335 ppb	56.079 ppb	107.688 ppb	48.266 ppb	47.681 ppb	23.755 ppb	47.378 ppb
Concentration per Run 1	98.968 %	50.852 ppb	20.134 ppb	58.157 ppb	115.014 ppb	50.752 ppb	50.709 ppb	25.084 ppb	49.814 ppb
Concentration per Run 2	102.668 %	49.066 ppb	18.982 ppb	55.090 ppb	106.256 ppb	45.572 ppb	45.957 ppb	23.044 ppb	45.470 ppb
Concentration per Run 3	103.505 %	47.871 ppb	18.888 ppb	54.991 ppb	101.793 ppb	48.475 ppb	46.377 ppb	23.137 ppb	46.850 ppb
Concentration RSD	2.4 %	3.0 %	3.6 %	3.2 %	6.2 %	5.4 %	5.5 %	4.8 %	4.7 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	101.749 %	106.647 %	12.923 ppb	12.310 ppb	120.653 ppb	94.652 ppb	97.600 %	101.342 %	4.727 ppb
Concentration per Run 1	101.643 %	103.885 %	13.607 ppb	12.324 ppb	124.270 ppb	102.433 ppb	98.663 %	95.423 %	4.959 ppb
Concentration per Run 2	100.833 %	109.734 %	12.216 ppb	11.610 ppb	118.103 ppb	90.157 ppb	97.367 %	104.913 %	4.567 ppb
Concentration per Run 3	102.771 %	106.322 %	12.946 ppb	12.996 ppb	119.586 ppb	91.366 ppb	96.770 %	103.690 %	4.656 ppb
Concentration RSD	1.0 %	2.8 %	5.4 %	5.6 %	2.7 %	7.1 %	1.0 %	5.1 %	4.3 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	5.018 ppb	101.139 %	103.344 %	45.672 ppb	187.778 ppb	96.307 %	99.835 %	95.961 %	103.012 %
Concentration per Run 1	5.211 ppb	100.547 %	100.164 %	47.950 ppb	199.519 ppb	95.691 %	96.851 %	97.097 %	98.419 %
Concentration per Run 2	4.974 ppb	101.786 %	104.099 %	44.612 ppb	185.697 ppb	96.705 %	100.933 %	95.955 %	106.660 %
Concentration per Run 3	4.871 ppb	101.083 %	105.770 %	44.453 ppb	178.117 ppb	96.526 %	101.722 %	94.832 %	103.958 %
Concentration RSD	3.5 %	0.6 %	2.8 %	4.3 %	5.8 %	0.6 %	2.6 %	1.2 %	4.1 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	9.775 ppb	54.226 ppb	95.906 %	98.114 %
Concentration per Run 1	9.640 ppb	56.570 ppb	96.108 %	94.505 %
Concentration per Run 2	9.771 ppb	52.498 ppb	96.009 %	98.921 %
Concentration per Run 3	9.915 ppb	53.611 ppb	95.602 %	100.915 %
Concentration RSD	1.4 %	3.9 %	0.3 %	3.3 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index: 20
Analysis label: WG1931192-4 2008SL
Analysis started at: 6/11/2024 2:56:44 PM
User name ALPHALAB\ICPMSRQ
Rack 1
Vial 5
Comment <Comment>

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	96.274 %	97.467 %	0.014 ppb	11,627.674 ppb	3,165.372 ppb	33.068 ppb	2,863.427 ppb	23,041.863 ppb	95.019 %
Concentration per Run 1	96.252 %	93.873 %	0.015 ppb	12,345.686 ppb	3,321.233 ppb	32.372 ppb	3,004.887 ppb	23,867.610 ppb	87.915 %
Concentration per Run 2	96.221 %	98.284 %	0.011 ppb	11,248.753 ppb	3,096.451 ppb	33.866 ppb	2,759.722 ppb	22,465.749 ppb	89.484 %
Concentration per Run 3	96.350 %	100.245 %	0.015 ppb	11,288.584 ppb	3,078.433 ppb	32.967 ppb	2,825.674 ppb	22,792.229 ppb	107.657 %
Concentration RSD	0.1 %	3.3 %	20.0 %	5.4 %	4.3 %	2.3 %	4.4 %	3.2 %	11.5 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	100.457 %	0.909 ppb	0.125 ppb	57.024 ppb	18.284 ppb	0.047 ppb	0.190 ppb	1.324 ppb	2.345 ppb
Concentration per Run 1	96.567 %	0.999 ppb	0.130 ppb	59.862 ppb	20.178 ppb	0.046 ppb	0.231 ppb	1.381 ppb	2.510 ppb
Concentration per Run 2	103.060 %	0.861 ppb	0.104 ppb	54.874 ppb	15.876 ppb	0.051 ppb	0.188 ppb	1.274 ppb	2.264 ppb
Concentration per Run 3	101.743 %	0.867 ppb	0.142 ppb	56.335 ppb	18.800 ppb	0.046 ppb	0.152 ppb	1.315 ppb	2.261 ppb
Concentration RSD	3.4 %	8.6 %	15.6 %	4.5 %	12.0 %	5.8 %	20.8 %	4.1 %	6.1 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	105.644 %	105.548 %	6.863 ppb	0.068 ppb	260.938 ppb	16.469 ppb	95.723 %	98.175 %	0.002 ppb
Concentration per Run 1	106.601 %	100.959 %	7.271 ppb	0.049 ppb	270.465 ppb	17.161 ppb	94.886 %	93.495 %	0.002 ppb
Concentration per Run 2	104.317 %	107.049 %	6.685 ppb	0.079 ppb	256.023 ppb	16.022 ppb	94.325 %	100.009 %	0.003 ppb
Concentration per Run 3	106.013 %	108.635 %	6.634 ppb	0.075 ppb	256.328 ppb	16.222 ppb	97.957 %	101.020 %	0.001 ppb
Concentration RSD	1.1 %	3.8 %	5.2 %	23.8 %	3.2 %	3.7 %	2.0 %	4.2 %	48.8 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.005 ppb	99.172 %	100.988 %	0.957 ppb	13.027 ppb	98.315 %	100.128 %	97.700 %	101.646 %
Concentration per Run 1	0.004 ppb	100.825 %	95.317 %	0.897 ppb	13.177 ppb	100.371 %	95.794 %	100.188 %	98.329 %
Concentration per Run 2	0.005 ppb	98.016 %	103.090 %	0.977 ppb	12.993 ppb	98.196 %	101.314 %	95.975 %	102.660 %
Concentration per Run 3	0.006 ppb	98.674 %	104.556 %	0.997 ppb	12.911 ppb	96.378 %	103.275 %	96.936 %	103.950 %
Concentration RSD	17.2 %	1.5 %	4.9 %	5.5 %	1.0 %	2.0 %	3.9 %	2.3 %	2.9 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.026 ppb	0.077 ppb	94.015 %	94.870 %
Concentration per Run 1	0.026 ppb	0.081 ppb	94.512 %	90.037 %
Concentration per Run 2	0.027 ppb	0.075 ppb	94.348 %	94.820 %
Concentration per Run 3	0.024 ppb	0.073 ppb	93.186 %	99.753 %
Concentration RSD	4.4 %	5.2 %	0.8 %	5.1 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	21	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2430758-01 2008SL	Rack	1		
Analysis started at:	6/11/2024 3:01:26 PM	Vial	16		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	121.189 %	120.997 %	13.282 ppb	51,240.379 ppb	32,297.277 ppb	27,996.730 ppb	5,883.875 ppb	87,943.043 ppb	115.165 %
Concentration per Run 1	121.075 %	117.402 %	13.262 ppb	52,308.314 ppb	36,113.298 ppb	29,437.044 ppb	5,930.888 ppb	90,181.774 ppb	113.182 %
Concentration per Run 2	122.192 %	121.324 %	13.242 ppb	51,149.197 ppb	31,070.614 ppb	27,034.444 ppb	5,846.043 ppb	87,475.074 ppb	117.222 %
Concentration per Run 3	120.301 %	124.265 %	13.343 ppb	50,263.627 ppb	29,707.919 ppb	27,518.703 ppb	5,874.695 ppb	86,172.280 ppb	115.091 %
Concentration RSD	0.8 %	2.8 %	0.4 %	2.0 %	10.4 %	4.5 %	0.7 %	2.3 %	1.8 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	118.437 %	0.233 ppb	0.449 ppb	5,600.820 ppb	87,316.574 ppb	197.404 ppb	240.365 ppb	46.275 ppb	797.600 ppb
Concentration per Run 1	118.164 %	0.170 ppb	0.463 ppb	5,667.175 ppb	90,254.218 ppb	202.662 ppb	249.733 ppb	46.641 ppb	810.217 ppb
Concentration per Run 2	118.111 %	0.251 ppb	0.448 ppb	5,562.769 ppb	85,177.978 ppb	194.951 ppb	232.380 ppb	45.520 ppb	784.138 ppb
Concentration per Run 3	119.036 %	0.277 ppb	0.438 ppb	5,572.517 ppb	86,517.527 ppb	194.598 ppb	238.983 ppb	46.665 ppb	798.445 ppb
Concentration RSD	0.4 %	24.0 %	2.8 %	1.0 %	3.0 %	2.3 %	3.6 %	1.4 %	1.6 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	107.093 %	109.843 %	0.259 ppb	39.133 ppb	1,075.378 ppb	0.184 ppb	89.014 %	93.357 %	0.001 ppb
Concentration per Run 1	107.202 %	107.360 %	0.951 ppb	40.924 ppb	1,104.168 ppb	0.184 ppb	85.716 %	90.570 %	0.001 ppb
Concentration per Run 2	108.702 %	112.287 %	-0.260 ppb	38.167 ppb	1,049.365 ppb	0.154 ppb	91.858 %	94.091 %	0.001 ppb
Concentration per Run 3	105.376 %	109.884 %	0.085 ppb	38.307 ppb	1,072.600 ppb	0.214 ppb	89.470 %	95.410 %	0.002 ppb
Concentration RSD	1.6 %	2.2 %	241.2 %	4.0 %	2.6 %	16.2 %	3.5 %	2.7 %	50.2 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	4.387 ppb	91.703 %	97.252 %	0.192 ppb	20.263 ppb	109.326 %	110.631 %	97.768 %	103.065 %
Concentration per Run 1	4.725 ppb	92.284 %	92.056 %	0.178 ppb	21.271 ppb	108.520 %	104.755 %	97.652 %	98.344 %
Concentration per Run 2	4.272 ppb	91.823 %	98.898 %	0.185 ppb	20.112 ppb	109.905 %	112.566 %	96.617 %	104.558 %
Concentration per Run 3	4.166 ppb	91.001 %	100.803 %	0.212 ppb	19.407 ppb	109.553 %	114.571 %	99.034 %	106.293 %
Concentration RSD	6.8 %	0.7 %	4.7 %	9.5 %	4.6 %	0.7 %	4.7 %	1.2 %	4.1 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.330 ppb	3.325 ppb	85.539 %	88.840 %
Concentration per Run 1	0.325 ppb	3.492 ppb	86.653 %	85.512 %
Concentration per Run 2	0.321 ppb	3.277 ppb	84.654 %	89.291 %
Concentration per Run 3	0.345 ppb	3.208 ppb	85.311 %	91.718 %
Concentration RSD	3.9 %	4.5 %	1.2 %	3.5 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	22	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2430758-02 2008SL	Rack	1		
Analysis started at:	6/11/2024 3:06:06 PM	Vial	17		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	103.399 %	106.699 %	1.138 ppb	87,535.751 ppb	168,144.345 ppb	27.135 ppb	21,084.237 ppb	395,390.591 ppb	105.238 %
Concentration per Run 1	103.482 %	106.373 %	1.159 ppb	90,923.158 ppb	173,035.194 ppb	22.291 ppb	21,883.921 ppb	411,789.368 ppb	110.979 %
Concentration per Run 2	103.145 %	111.765 %	1.130 ppb	83,669.331 ppb	161,823.354 ppb	30.004 ppb	20,375.979 ppb	392,520.506 ppb	111.451 %
Concentration per Run 3	103.569 %	101.961 %	1.125 ppb	88,014.764 ppb	169,574.486 ppb	29.110 ppb	20,992.810 ppb	381,861.899 ppb	93.283 %
Concentration RSD	0.2 %	4.6 %	1.6 %	4.2 %	3.4 %	15.5 %	3.6 %	3.8 %	9.8 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	97.865 %	0.244 ppb	0.048 ppb	6,629.480 ppb	743.976 ppb	68.226 ppb	528.715 ppb	4.784 ppb	146.892 ppb
Concentration per Run 1	95.464 %	0.268 ppb	0.101 ppb	7,046.491 ppb	771.646 ppb	72.474 ppb	561.514 ppb	5.078 ppb	155.904 ppb
Concentration per Run 2	99.715 %	0.260 ppb	0.014 ppb	6,442.393 ppb	729.455 ppb	66.503 ppb	516.818 ppb	4.695 ppb	145.014 ppb
Concentration per Run 3	98.417 %	0.205 ppb	0.029 ppb	6,399.557 ppb	730.828 ppb	65.701 ppb	507.812 ppb	4.580 ppb	139.758 ppb
Concentration RSD	2.2 %	13.9 %	97.6 %	5.5 %	3.2 %	5.4 %	5.4 %	5.5 %	5.6 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	102.836 %	102.017 %	0.053 ppb	4.530 ppb	2,178.846 ppb	0.155 ppb	84.286 %	89.521 %	0.001 ppb
Concentration per Run 1	102.139 %	97.662 %	0.118 ppb	5.009 ppb	2,281.751 ppb	0.136 ppb	85.173 %	85.356 %	0.002 ppb
Concentration per Run 2	104.009 %	102.214 %	-0.010 ppb	4.261 ppb	2,155.152 ppb	0.172 ppb	82.350 %	90.393 %	0.001 ppb
Concentration per Run 3	102.360 %	106.173 %	0.052 ppb	4.319 ppb	2,099.635 ppb	0.156 ppb	85.335 %	92.815 %	0.001 ppb
Concentration RSD	1.0 %	4.2 %	120.6 %	9.2 %	4.3 %	11.5 %	2.0 %	4.3 %	46.5 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	2.039 ppb	86.698 %	93.228 %	0.143 ppb	38.540 ppb	93.428 %	94.453 %	91.681 %	96.207 %
Concentration per Run 1	2.146 ppb	88.602 %	86.206 %	0.129 ppb	41.626 ppb	91.940 %	90.265 %	91.534 %	90.133 %
Concentration per Run 2	2.072 ppb	82.006 %	95.395 %	0.135 ppb	36.653 ppb	94.135 %	97.983 %	91.164 %	101.503 %
Concentration per Run 3	1.899 ppb	89.486 %	98.081 %	0.167 ppb	37.341 ppb	94.209 %	95.111 %	92.346 %	96.984 %
Concentration RSD	6.2 %	4.7 %	6.7 %	14.2 %	7.0 %	1.4 %	4.1 %	0.7 %	6.0 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.086 ppb	0.125 ppb	83.114 %	83.750 %
Concentration per Run 1	0.089 ppb	0.130 ppb	80.866 %	79.174 %
Concentration per Run 2	0.085 ppb	0.123 ppb	85.847 %	84.115 %
Concentration per Run 3	0.083 ppb	0.122 ppb	82.630 %	87.961 %
Concentration RSD	3.4 %	3.6 %	3.0 %	5.3 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	23	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2430758-03 2008SL	Rack	1		
Analysis started at:	6/11/2024 3:10:46 PM	Vial	18		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	121.631 %	126.798 %	13.372 ppb	52,895.251 ppb	32,329.322 ppb	28,886.760 ppb	6,054.767 ppb	91,347.862 ppb	113.571 %
Concentration per Run 1	121.256 %	121.569 %	13.570 ppb	55,774.138 ppb	32,451.232 ppb	30,339.014 ppb	6,274.089 ppb	94,582.643 ppb	115.259 %
Concentration per Run 2	122.082 %	134.559 %	13.300 ppb	49,953.078 ppb	33,922.199 ppb	27,494.146 ppb	5,902.532 ppb	88,556.786 ppb	114.718 %
Concentration per Run 3	121.553 %	124.265 %	13.246 ppb	52,958.537 ppb	30,614.536 ppb	28,827.119 ppb	5,987.681 ppb	90,904.157 ppb	110.738 %
Concentration RSD	0.3 %	5.4 %	1.3 %	5.5 %	5.1 %	4.9 %	3.2 %	3.3 %	2.2 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	117.589 %	0.228 ppb	0.484 ppb	5,712.408 ppb	90,276.826 ppb	198.637 ppb	243.772 ppb	48.114 ppb	802.000 ppb
Concentration per Run 1	113.805 %	0.240 ppb	0.545 ppb	6,042.701 ppb	97,042.047 ppb	208.341 ppb	256.676 ppb	49.284 ppb	830.004 ppb
Concentration per Run 2	120.174 %	0.247 ppb	0.439 ppb	5,547.759 ppb	87,856.860 ppb	196.197 ppb	242.566 ppb	47.461 ppb	794.980 ppb
Concentration per Run 3	118.787 %	0.197 ppb	0.467 ppb	5,546.766 ppb	85,931.571 ppb	191.372 ppb	232.075 ppb	47.597 ppb	781.016 ppb
Concentration RSD	2.8 %	11.9 %	11.4 %	5.0 %	6.6 %	4.4 %	5.1 %	2.1 %	3.1 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	109.499 %	112.557 %	-0.358 ppb	39.247 ppb	1,099.023 ppb	0.044 ppb	88.613 %	94.001 %	0.013 ppb
Concentration per Run 1	107.802 %	109.544 %	-0.588 ppb	41.206 ppb	1,150.656 ppb	0.033 ppb	88.225 %	90.103 %	0.012 ppb
Concentration per Run 2	110.627 %	111.313 %	-0.712 ppb	38.462 ppb	1,095.007 ppb	0.052 ppb	86.979 %	95.086 %	0.012 ppb
Concentration per Run 3	110.069 %	116.814 %	0.225 ppb	38.074 ppb	1,051.407 ppb	0.048 ppb	90.633 %	96.812 %	0.016 ppb
Concentration RSD	1.4 %	3.4 %	142.1 %	4.4 %	4.5 %	23.2 %	2.1 %	3.7 %	17.4 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	4.498 ppb	93.715 %	98.583 %	0.048 ppb	20.606 ppb	108.419 %	114.171 %	96.785 %	106.520 %
Concentration per Run 1	4.746 ppb	92.893 %	94.131 %	0.036 ppb	21.763 ppb	108.254 %	109.520 %	97.559 %	101.260 %
Concentration per Run 2	4.420 ppb	94.335 %	99.636 %	0.046 ppb	20.198 ppb	108.287 %	117.325 %	96.508 %	107.839 %
Concentration per Run 3	4.327 ppb	93.918 %	101.980 %	0.064 ppb	19.856 ppb	108.716 %	115.667 %	96.287 %	110.461 %
Concentration RSD	4.9 %	0.8 %	4.1 %	29.3 %	4.9 %	0.2 %	3.6 %	0.7 %	4.4 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.321 ppb	3.374 ppb	86.882 %	88.172 %
Concentration per Run 1	0.320 ppb	3.650 ppb	85.734 %	83.096 %
Concentration per Run 2	0.324 ppb	3.231 ppb	87.205 %	90.272 %
Concentration per Run 3	0.319 ppb	3.241 ppb	87.705 %	91.147 %
Concentration RSD	0.8 %	7.1 %	1.2 %	5.0 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	24	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2430758-04 2008SL	Rack	1		
Analysis started at:	6/11/2024 3:15:27 PM	Vial	19		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	103.497 %	100.817 %	1.720 ppb	14,371.088 ppb	6,322.592 ppb	2,458.392 ppb	2,349.919 ppb	17,276.181 ppb	96.264 %
Concentration per Run 1	104.704 %	88.970 %	1.723 ppb	15,999.860 ppb	6,967.361 ppb	2,710.492 ppb	2,484.579 ppb	18,338.742 ppb	95.360 %
Concentration per Run 2	103.221 %	100.245 %	1.718 ppb	13,931.708 ppb	6,221.074 ppb	2,399.773 ppb	2,334.003 ppb	16,464.527 ppb	96.080 %
Concentration per Run 3	102.565 %	113.235 %	1.717 ppb	13,181.694 ppb	5,779.342 ppb	2,264.911 ppb	2,231.174 ppb	17,025.274 ppb	97.352 %
Concentration RSD	1.1 %	12.0 %	0.2 %	10.2 %	9.5 %	9.3 %	5.4 %	5.6 %	1.0 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	100.919 %	0.053 ppb	0.177 ppb	501.980 ppb	68.228 ppb	15.890 ppb	21.013 ppb	7.875 ppb	43.718 ppb
Concentration per Run 1	96.727 %	0.066 ppb	0.212 ppb	534.520 ppb	77.536 ppb	16.929 ppb	22.215 ppb	8.551 ppb	46.833 ppb
Concentration per Run 2	103.131 %	0.042 ppb	0.170 ppb	477.186 ppb	63.525 ppb	15.115 ppb	20.891 ppb	7.567 ppb	41.721 ppb
Concentration per Run 3	102.900 %	0.052 ppb	0.148 ppb	494.233 ppb	63.623 ppb	15.624 ppb	19.934 ppb	7.506 ppb	42.600 ppb
Concentration RSD	3.6 %	22.8 %	18.3 %	5.9 %	11.8 %	5.9 %	5.5 %	7.4 %	6.3 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	105.882 %	106.131 %	0.080 ppb	2.430 ppb	121.575 ppb	0.030 ppb	97.227 %	97.997 %	0.004 ppb
Concentration per Run 1	105.677 %	98.199 %	0.088 ppb	2.417 ppb	132.043 ppb	0.006 ppb	95.793 %	91.141 %	0.003 ppb
Concentration per Run 2	105.061 %	112.757 %	0.104 ppb	2.099 ppb	113.006 ppb	0.019 ppb	99.702 %	100.437 %	0.007 ppb
Concentration per Run 3	106.909 %	107.437 %	0.049 ppb	2.775 ppb	119.678 ppb	0.066 ppb	96.186 %	102.414 %	0.004 ppb
Concentration RSD	0.9 %	6.9 %	35.3 %	13.9 %	7.9 %	103.8 %	2.2 %	6.1 %	53.8 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.308 ppb	96.997 %	100.701 %	0.036 ppb	24.247 ppb	98.761 %	99.728 %	98.537 %	101.785 %
Concentration per Run 1	0.307 ppb	97.974 %	96.568 %	0.025 ppb	24.956 ppb	97.208 %	93.172 %	97.249 %	95.837 %
Concentration per Run 2	0.334 ppb	95.852 %	103.331 %	0.043 ppb	23.980 ppb	100.787 %	104.327 %	98.199 %	104.027 %
Concentration per Run 3	0.281 ppb	97.164 %	102.203 %	0.042 ppb	23.806 ppb	98.287 %	101.684 %	100.162 %	105.491 %
Concentration RSD	8.5 %	1.1 %	3.6 %	28.1 %	2.6 %	1.9 %	5.8 %	1.5 %	5.1 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.096 ppb	1.742 ppb	93.694 %	94.668 %
Concentration per Run 1	0.094 ppb	1.859 ppb	93.744 %	88.764 %
Concentration per Run 2	0.099 ppb	1.707 ppb	93.851 %	95.657 %
Concentration per Run 3	0.095 ppb	1.660 ppb	93.487 %	99.584 %
Concentration RSD	2.8 %	6.0 %	0.2 %	5.8 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index: 25 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: I2430758-05 2008SL Rack 1
Analysis started at: 6/11/2024 3:20:07 PM Vial 20

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	100.453 %	104.412 %	0.435 ppb	46,066.100 ppb	58,117.718 ppb	33.898 ppb	11,710.146 ppb	147,452.204 ppb	98.426 %
Concentration per Run 1	101.047 %	88.725 %	0.450 ppb	50,542.303 ppb	63,324.359 ppb	45.639 ppb	12,203.807 ppb	153,750.563 ppb	99.413 %
Concentration per Run 2	100.243 %	112.255 %	0.423 ppb	44,242.263 ppb	56,043.912 ppb	29.856 ppb	11,658.257 ppb	146,481.110 ppb	95.845 %
Concentration per Run 3	100.068 %	112.255 %	0.432 ppb	43,413.734 ppb	54,984.883 ppb	26.199 ppb	11,268.374 ppb	142,124.939 ppb	100.022 %
Concentration RSD	0.5 %	13.0 %	3.1 %	8.5 %	7.8 %	30.5 %	4.0 %	4.0 %	2.3 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	101.963 %	0.107 ppb	0.165 ppb	1,292.640 ppb	39,335.672 ppb	23.222 ppb	84.039 ppb	0.110 ppb	84.689 ppb
Concentration per Run 1	99.111 %	0.128 ppb	0.164 ppb	1,351.243 ppb	40,330.263 ppb	23.579 ppb	87.443 ppb	0.116 ppb	85.769 ppb
Concentration per Run 2	100.231 %	0.085 ppb	0.176 ppb	1,278.132 ppb	39,634.440 ppb	22.671 ppb	83.278 ppb	0.107 ppb	83.428 ppb
Concentration per Run 3	106.547 %	0.110 ppb	0.154 ppb	1,248.546 ppb	38,042.312 ppb	23.416 ppb	81.397 ppb	0.108 ppb	84.869 ppb
Concentration RSD	3.9 %	20.1 %	6.7 %	4.1 %	3.0 %	2.1 %	3.7 %	4.4 %	1.4 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	110.080 %	106.291 %	0.750 ppb	0.631 ppb	817.199 ppb	0.091 ppb	89.377 %	93.551 %	0.003 ppb
Concentration per Run 1	110.439 %	104.151 %	0.748 ppb	0.635 ppb	837.977 ppb	0.088 ppb	90.731 %	88.697 %	0.001 ppb
Concentration per Run 2	109.854 %	108.005 %	0.775 ppb	0.675 ppb	796.054 ppb	0.070 ppb	88.121 %	95.365 %	0.004 ppb
Concentration per Run 3	109.947 %	106.718 %	0.726 ppb	0.584 ppb	817.567 ppb	0.115 ppb	89.277 %	96.590 %	0.004 ppb
Concentration RSD	0.3 %	1.8 %	3.3 %	7.2 %	2.6 %	25.1 %	1.5 %	4.5 %	65.1 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.268 ppb	92.598 %	96.960 %	0.009 ppb	15.914 ppb	95.403 %	97.269 %	95.054 %	98.584 %
Concentration per Run 1	0.294 ppb	91.720 %	91.018 %	-0.006 ppb	16.313 ppb	95.469 %	92.057 %	96.280 %	94.505 %
Concentration per Run 2	0.245 ppb	91.441 %	99.447 %	0.013 ppb	15.762 ppb	96.555 %	99.681 %	94.767 %	99.577 %
Concentration per Run 3	0.265 ppb	94.631 %	100.413 %	0.021 ppb	15.666 ppb	94.186 %	100.070 %	94.117 %	101.671 %
Concentration RSD	9.1 %	1.9 %	5.3 %	147.6 %	2.2 %	1.2 %	4.6 %	1.2 %	3.7 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.021 ppb	0.067 ppb	87.579 %	89.803 %
Concentration per Run 1	0.021 ppb	0.068 ppb	87.764 %	85.794 %
Concentration per Run 2	0.021 ppb	0.067 ppb	88.346 %	89.896 %
Concentration per Run 3	0.021 ppb	0.067 ppb	86.626 %	93.719 %
Concentration RSD	0.8 %	1.4 %	1.0 %	4.4 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	26	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	6/11/2024 3:24:49 PM	Vial	9		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	95.711 %	97.876 %	60.231 ppb	6,031.260 ppb	6,027.483 ppb	63.193 ppb	6,300.820 ppb	6,244.955 ppb	102.300 %
Concentration per Run 1	96.610 %	94.853 %	59.835 ppb	6,201.237 ppb	6,174.908 ppb	64.783 ppb	6,408.084 ppb	6,003.042 ppb	101.361 %
Concentration per Run 2	95.853 %	97.304 %	59.622 ppb	5,929.037 ppb	5,952.499 ppb	61.429 ppb	6,186.328 ppb	6,276.093 ppb	103.290 %
Concentration per Run 3	94.669 %	101.471 %	61.235 ppb	5,963.507 ppb	5,955.042 ppb	63.366 ppb	6,308.049 ppb	6,455.732 ppb	102.248 %
Recovery Percentage 1			100.384 %	100.521 %	100.458 %	105.321 %	105.014 %	104.083 %	
Concentration RSD	1.0 %	3.4 %	1.5 %	2.5 %	2.1 %	2.7 %	1.8 %	3.7 %	0.9 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	105.319 %	62.566 ppb	60.534 ppb	62.339 ppb	6,140.037 ppb	61.842 ppb	61.110 ppb	60.915 ppb	60.868 ppb
Concentration per Run 1	105.693 %	62.856 ppb	61.257 ppb	63.585 ppb	6,322.423 ppb	63.262 ppb	63.897 ppb	61.811 ppb	62.376 ppb
Concentration per Run 2	106.137 %	61.275 ppb	60.420 ppb	61.422 ppb	6,034.159 ppb	62.292 ppb	60.525 ppb	60.779 ppb	60.540 ppb
Concentration per Run 3	104.127 %	63.565 ppb	59.924 ppb	62.010 ppb	6,063.529 ppb	59.973 ppb	58.908 ppb	60.153 ppb	59.688 ppb
Recovery Percentage 1		104.276 %	100.889 %	103.898 %	102.334 %	103.071 %	101.850 %	101.524 %	101.447 %
Concentration RSD	1.0 %	1.9 %	1.1 %	1.8 %	2.6 %	2.7 %	4.2 %	1.4 %	2.3 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	102.059 %	104.107 %	59.403 ppb	60.549 ppb	61.301 ppb	56.928 ppb	94.902 %	99.037 %	59.283 ppb
Concentration per Run 1	101.183 %	101.765 %	61.299 ppb	61.494 ppb	62.510 ppb	57.596 ppb	94.837 %	98.198 %	60.379 ppb
Concentration per Run 2	102.992 %	103.886 %	59.235 ppb	61.613 ppb	60.676 ppb	55.939 ppb	95.268 %	99.111 %	58.516 ppb
Concentration per Run 3	102.002 %	106.672 %	57.675 ppb	58.541 ppb	60.715 ppb	57.249 ppb	94.600 %	99.802 %	58.954 ppb
Recovery Percentage 1			99.005 %	100.916 %	102.168 %	94.880 %			98.805 %
Concentration RSD	0.9 %	2.4 %	3.1 %	2.9 %	1.7 %	1.5 %	0.4 %	0.8 %	1.6 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	58.944 ppb	98.205 %	103.260 %	55.718 ppb	58.665 ppb	96.301 %	102.685 %	95.796 %	104.201 %
Concentration per Run 1	60.171 ppb	99.997 %	101.049 %	56.908 ppb	59.188 ppb	96.711 %	100.082 %	95.715 %	103.057 %
Concentration per Run 2	58.222 ppb	97.792 %	103.673 %	54.890 ppb	58.230 ppb	95.445 %	103.353 %	95.689 %	104.857 %
Concentration per Run 3	58.439 ppb	96.826 %	105.060 %	55.356 ppb	58.576 ppb	96.747 %	104.619 %	95.983 %	104.689 %
Recovery Percentage 1	98.239 %			92.864 %	97.774 %				
Concentration RSD	1.8 %	1.7 %	2.0 %	1.9 %	0.8 %	0.8 %	2.3 %	0.2 %	1.0 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	60.002 ppb	57.187 ppb	94.542 %	99.467 %
Concentration per Run 1	59.794 ppb	58.369 ppb	95.251 %	97.127 %
Concentration per Run 2	60.444 ppb	57.700 ppb	94.016 %	100.063 %
Concentration per Run 3	59.768 ppb	55.492 ppb	94.357 %	101.210 %
Recovery Percentage 1	100.003 %	95.312 %		
Concentration RSD	0.6 %	2.6 %	0.7 %	2.1 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	27	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/11/2024 3:29:34 PM	Vial	10		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	95.898 %	91.258 %	0.018 ppb	6.105 ppb	4.148 ppb	1.120 ppb	12.777 ppb	6.300 ppb	97.063 %
Concentration per Run 1	97.220 %	89.706 %	0.017 ppb	7.874 ppb	5.879 ppb	0.721 ppb	11.801 ppb	8.203 ppb	97.942 %
Concentration per Run 2	95.201 %	91.421 %	0.019 ppb	5.512 ppb	2.978 ppb	2.006 ppb	18.907 ppb	3.848 ppb	97.328 %
Concentration per Run 3	95.274 %	92.647 %	0.018 ppb	4.929 ppb	3.588 ppb	0.632 ppb	7.622 ppb	6.848 ppb	95.917 %
Recovery Percentage 1			3.582 %	6.105 %	5.926 %	11.198 %	12.777 %	6.300 %	
Concentration RSD	1.2 %	1.6 %	4.8 %	25.5 %	36.9 %	68.7 %	44.7 %	35.4 %	1.1 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	97.065 %	0.021 ppb	-0.015 ppb	0.277 ppb	6.905 ppb	0.015 ppb	0.064 ppb	0.026 ppb	0.501 ppb
Concentration per Run 1	93.934 %	0.025 ppb	-0.002 ppb	0.354 ppb	6.267 ppb	0.017 ppb	0.066 ppb	0.022 ppb	0.538 ppb
Concentration per Run 2	97.100 %	0.028 ppb	-0.014 ppb	0.247 ppb	8.036 ppb	0.015 ppb	0.058 ppb	0.031 ppb	0.434 ppb
Concentration per Run 3	100.160 %	0.009 ppb	-0.030 ppb	0.231 ppb	6.412 ppb	0.012 ppb	0.067 ppb	0.026 ppb	0.532 ppb
Recovery Percentage 1		0.415 %	-1.518 %	27.737 %	13.810 %	2.966 %	3.198 %	2.618 %	10.023 %
Concentration RSD	3.2 %	49.9 %	92.4 %	24.1 %	14.2 %	19.6 %	7.6 %	17.2 %	11.6 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	98.562 %	100.800 %	-0.003 ppb	0.105 ppb	0.050 ppb	0.201 ppb	98.630 %	99.100 %	0.008 ppb
Concentration per Run 1	97.127 %	96.695 %	0.011 ppb	0.020 ppb	0.074 ppb	0.213 ppb	98.146 %	93.855 %	0.015 ppb
Concentration per Run 2	99.526 %	104.478 %	0.024 ppb	0.216 ppb	0.037 ppb	0.197 ppb	98.815 %	103.497 %	0.006 ppb
Concentration per Run 3	99.032 %	101.227 %	-0.042 ppb	0.081 ppb	0.040 ppb	0.195 ppb	98.930 %	99.949 %	0.003 ppb
Recovery Percentage 1			-0.507 %	2.106 %	10.070 %	10.073 %			1.967 %
Concentration RSD	1.3 %	3.9 %	1,377.5 %	95.2 %	41.0 %	4.8 %	0.4 %	4.9 %	76.4 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.005 ppb	97.497 %	102.612 %	0.844 ppb	0.031 ppb	96.316 %	100.221 %	95.107 %	104.908 %
Concentration per Run 1	0.012 ppb	98.768 %	94.649 %	0.792 ppb	0.029 ppb	94.397 %	94.743 %	94.446 %	98.243 %
Concentration per Run 2	0.004 ppb	94.861 %	106.738 %	0.816 ppb	0.039 ppb	94.705 %	102.889 %	93.216 %	106.457 %
Concentration per Run 3	0.000 ppb	98.862 %	106.449 %	0.924 ppb	0.024 ppb	99.846 %	103.031 %	97.658 %	110.022 %
Recovery Percentage 1				21.108 %	6.160 %				
Concentration RSD	120.9 %	2.3 %	6.7 %	8.3 %	25.3 %	3.2 %	4.7 %	2.4 %	5.8 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.101 ppb	0.014 ppb	96.830 %	99.056 %
Concentration per Run 1	0.113 ppb	0.018 ppb	96.897 %	91.851 %
Concentration per Run 2	0.096 ppb	0.013 ppb	96.776 %	102.518 %
Concentration per Run 3	0.095 ppb	0.010 ppb	96.818 %	102.798 %
Recovery Percentage 1	10.133 %	1.376 %		
Concentration RSD	10.1 %	28.1 %	0.1 %	6.3 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	28	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	WG1931265-1 2008TL	Rack	1		
Analysis started at:	6/11/2024 3:37:03 PM	Vial	21		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	98.623 %	101.225 %	0.006 ppb	-2.181 ppb	4.046 ppb	6.775 ppb	7.705 ppb	-1.966 ppb	99.889 %
Concentration per Run 1	98.918 %	97.304 %	0.007 ppb	-0.190 ppb	4.794 ppb	8.168 ppb	14.710 ppb	10.385 ppb	100.279 %
Concentration per Run 2	98.676 %	97.549 %	0.005 ppb	-1.508 ppb	3.663 ppb	4.253 ppb	3.682 ppb	-8.039 ppb	102.113 %
Concentration per Run 3	98.276 %	108.824 %	0.006 ppb	-4.843 ppb	3.680 ppb	7.903 ppb	4.723 ppb	-8.244 ppb	97.274 %
Concentration RSD	0.3 %	6.5 %	21.7 %	110.0 %	16.0 %	32.3 %	79.0 %	544.1 %	2.4 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	104.335 %	0.013 ppb	0.878 ppb	0.199 ppb	10.321 ppb	0.022 ppb	0.512 ppb	0.138 ppb	0.530 ppb
Concentration per Run 1	101.601 %	0.004 ppb	0.966 ppb	0.203 ppb	10.005 ppb	0.019 ppb	0.534 ppb	0.150 ppb	0.580 ppb
Concentration per Run 2	105.586 %	0.020 ppb	0.829 ppb	0.202 ppb	8.562 ppb	0.017 ppb	0.494 ppb	0.136 ppb	0.503 ppb
Concentration per Run 3	105.817 %	0.016 ppb	0.840 ppb	0.191 ppb	12.396 ppb	0.030 ppb	0.510 ppb	0.128 ppb	0.509 ppb
Concentration RSD	2.3 %	62.3 %	8.6 %	3.4 %	18.8 %	30.5 %	3.9 %	8.4 %	8.1 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	98.911 %	106.069 %	-0.004 ppb	0.066 ppb	0.013 ppb	0.043 ppb	99.719 %	101.188 %	0.002 ppb
Concentration per Run 1	99.450 %	100.707 %	-0.012 ppb	0.014 ppb	0.007 ppb	0.046 ppb	100.606 %	96.020 %	0.000 ppb
Concentration per Run 2	98.544 %	108.994 %	0.007 ppb	0.111 ppb	0.007 ppb	0.035 ppb	98.533 %	103.643 %	0.002 ppb
Concentration per Run 3	98.739 %	108.506 %	-0.008 ppb	0.073 ppb	0.024 ppb	0.046 ppb	100.017 %	103.901 %	0.002 ppb
Concentration RSD	0.5 %	4.4 %	235.5 %	73.7 %	80.0 %	15.6 %	1.1 %	4.4 %	71.1 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.001 ppb	101.026 %	105.040 %	0.184 ppb	0.042 ppb	98.031 %	101.015 %	95.343 %	106.402 %
Concentration per Run 1	0.001 ppb	101.305 %	98.988 %	0.179 ppb	0.039 ppb	97.616 %	94.034 %	93.071 %	98.808 %
Concentration per Run 2	0.002 ppb	100.444 %	107.376 %	0.165 ppb	0.039 ppb	99.568 %	104.137 %	97.982 %	108.735 %
Concentration per Run 3	0.000 ppb	101.329 %	108.755 %	0.208 ppb	0.048 ppb	96.908 %	104.874 %	94.975 %	111.663 %
Concentration RSD	153.4 %	0.5 %	5.0 %	12.0 %	13.0 %	1.4 %	6.0 %	2.6 %	6.3 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.025 ppb	0.017 ppb	96.515 %	100.960 %
Concentration per Run 1	0.029 ppb	0.019 ppb	95.665 %	96.023 %
Concentration per Run 2	0.023 ppb	0.016 ppb	96.100 %	101.063 %
Concentration per Run 3	0.023 ppb	0.017 ppb	97.781 %	105.794 %
Concentration RSD	13.8 %	8.4 %	1.2 %	4.8 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	29	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	LDR Check (10/1)	Rack	4		
Analysis started at:	6/11/2024 3:41:44 PM	Vial	1		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	101.101 %	98.203 %	0.007 ppb	-2.970 ppb	4.542 ppb	3.021 ppb	10.316 ppb	-3.395 ppb	102.187 %
Concentration per Run 1	100.713 %	92.157 %	0.005 ppb	-0.013 ppb	4.373 ppb	3.301 ppb	7.941 ppb	16.482 ppb	99.193 %
Concentration per Run 2	101.833 %	97.794 %	0.004 ppb	-2.875 ppb	5.714 ppb	4.435 ppb	14.076 ppb	-13.264 ppb	102.991 %
Concentration per Run 3	100.759 %	104.657 %	0.011 ppb	-6.021 ppb	3.540 ppb	1.328 ppb	8.932 ppb	-13.403 ppb	104.375 %
Concentration RSD	0.6 %	6.4 %	57.6 %	101.2 %	24.1 %	52.0 %	31.9 %	507.1 %	2.6 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	99.923 %	0.028 ppb	-0.001 ppb	10,279.085 ppb	5.929 ppb	0.024 ppb	10,416.095 ppb	10,833.045 ppb	10,967.428 ppb
Concentration per Run 1	98.008 %	0.046 ppb	-0.011 ppb	10,849.285 ppb	4.813 ppb	0.026 ppb	11,329.041 ppb	11,715.904 ppb	11,713.433 ppb
Concentration per Run 2	99.164 %	0.022 ppb	0.011 ppb	10,089.015 ppb	6.486 ppb	0.019 ppb	10,003.164 ppb	10,441.208 ppb	10,654.628 ppb
Concentration per Run 3	102.597 %	0.016 ppb	-0.005 ppb	9,898.954 ppb	6.490 ppb	0.026 ppb	9,916.080 ppb	10,342.022 ppb	10,534.223 ppb
Concentration RSD	2.4 %	56.8 %	777.7 %	4.9 %	16.3 %	17.3 %	7.6 %	7.1 %	5.9 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	106.562 %	108.116 %	996.920 ppb	0.502 ppb	0.240 ppb	0.025 ppb	97.666 %	102.487 %	0.169 ppb
Concentration per Run 1	106.447 %	100.985 %	1,053.752 ppb	0.573 ppb	0.272 ppb	0.014 ppb	99.329 %	96.889 %	0.189 ppb
Concentration per Run 2	106.524 %	110.811 %	978.570 ppb	0.521 ppb	0.226 ppb	0.032 ppb	98.114 %	104.832 %	0.163 ppb
Concentration per Run 3	106.716 %	112.552 %	958.440 ppb	0.414 ppb	0.221 ppb	0.029 ppb	95.555 %	105.739 %	0.156 ppb
Concentration RSD	0.1 %	5.8 %	5.0 %	16.2 %	11.8 %	37.9 %	2.0 %	4.8 %	10.3 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.072 ppb	97.438 %	106.280 %	1.031 ppb	12,775.454 ppb	97.150 %	101.882 %	97.542 %	105.617 %
Concentration per Run 1	0.071 ppb	97.450 %	101.003 %	1.042 ppb	13,350.876 ppb	97.458 %	97.148 %	98.236 %	99.747 %
Concentration per Run 2	0.073 ppb	97.295 %	107.381 %	1.038 ppb	12,692.619 ppb	97.488 %	102.610 %	96.560 %	108.209 %
Concentration per Run 3	0.074 ppb	97.570 %	110.455 %	1.013 ppb	12,282.866 ppb	96.504 %	105.887 %	97.832 %	108.894 %
Concentration RSD	2.2 %	0.1 %	4.5 %	1.5 %	4.2 %	0.6 %	4.3 %	0.9 %	4.8 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.035 ppb	13,969.376 ppb	97.378 %	99.811 %
Concentration per Run 1	0.035 ppb	15,211.329 ppb	96.451 %	91.599 %
Concentration per Run 2	0.036 ppb	13,320.079 ppb	96.901 %	103.847 %
Concentration per Run 3	0.033 ppb	13,376.721 ppb	98.781 %	103.986 %
Concentration RSD	4.7 %	7.7 %	1.3 %	7.1 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	30	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	LDR Check (1/0.1)	Rack	4		
Analysis started at:	6/11/2024 3:49:50 PM	Vial	2		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	102.192 %	95.833 %	0.003 ppb	-2.866 ppb	2.617 ppb	1.635 ppb	13.565 ppb	-13.140 ppb	103.617 %
Concentration per Run 1	102.210 %	95.098 %	0.003 ppb	-4.797 ppb	2.802 ppb	1.753 ppb	11.121 ppb	-18.863 ppb	102.125 %
Concentration per Run 2	102.678 %	88.970 %	-0.001 ppb	0.402 ppb	3.525 ppb	1.873 ppb	14.842 ppb	-1.699 ppb	103.987 %
Concentration per Run 3	101.689 %	103.431 %	0.008 ppb	-4.203 ppb	1.524 ppb	1.279 ppb	14.733 ppb	-18.858 ppb	104.740 %
Concentration RSD	0.5 %	7.6 %	128.7 %	99.3 %	38.7 %	19.2 %	15.6 %	75.4 %	1.3 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	108.047 %	0.002 ppb	0.000 ppb	1,103.876 ppb	2.206 ppb	0.009 ppb	1,020.539 ppb	1,196.361 ppb	1,036.437 ppb
Concentration per Run 1	109.518 %	0.010 ppb	-0.008 ppb	1,100.720 ppb	2.171 ppb	0.009 ppb	1,038.106 ppb	1,175.027 ppb	1,035.688 ppb
Concentration per Run 2	107.027 %	-0.006 ppb	0.013 ppb	1,103.221 ppb	1.981 ppb	0.010 ppb	1,015.813 ppb	1,206.302 ppb	1,031.162 ppb
Concentration per Run 3	107.596 %	0.002 ppb	-0.004 ppb	1,107.687 ppb	2.466 ppb	0.007 ppb	1,007.698 ppb	1,207.755 ppb	1,042.460 ppb
Concentration RSD	1.2 %	355.6 %	21,457.9 %	0.3 %	11.1 %	12.8 %	1.5 %	1.5 %	0.5 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	103.859 %	108.650 %	100.676 ppb	0.088 ppb	0.054 ppb	0.007 ppb	99.586 %	105.280 %	0.017 ppb
Concentration per Run 1	104.550 %	108.304 %	101.243 ppb	0.108 ppb	0.057 ppb	0.001 ppb	98.778 %	103.812 %	0.012 ppb
Concentration per Run 2	104.058 %	109.128 %	99.238 ppb	0.082 ppb	0.051 ppb	0.012 ppb	99.876 %	106.696 %	0.016 ppb
Concentration per Run 3	102.970 %	108.518 %	101.546 ppb	0.073 ppb	0.054 ppb	0.010 ppb	100.104 %	105.331 %	0.021 ppb
Concentration RSD	0.8 %	0.4 %	1.2 %	20.5 %	5.7 %	78.7 %	0.7 %	1.4 %	26.6 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.008 ppb	98.246 %	108.028 %	0.132 ppb	1,014.309 ppb	97.037 %	105.787 %	94.949 %	108.081 %
Concentration per Run 1	0.006 ppb	98.831 %	106.824 %	0.117 ppb	1,020.345 ppb	96.509 %	105.446 %	93.872 %	104.491 %
Concentration per Run 2	0.008 ppb	98.135 %	108.223 %	0.127 ppb	1,000.533 ppb	98.773 %	106.676 %	94.257 %	110.157 %
Concentration per Run 3	0.011 ppb	97.773 %	109.038 %	0.152 ppb	1,022.051 ppb	95.831 %	105.238 %	96.718 %	109.595 %
Concentration RSD	30.8 %	0.5 %	1.0 %	13.3 %	1.2 %	1.6 %	0.7 %	1.6 %	2.9 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.009 ppb	1,411.058 ppb	98.118 %	103.372 %
Concentration per Run 1	0.009 ppb	1,432.354 ppb	99.487 %	102.263 %
Concentration per Run 2	0.009 ppb	1,414.276 ppb	98.480 %	102.651 %
Concentration per Run 3	0.007 ppb	1,386.543 ppb	96.388 %	105.203 %
Concentration RSD	11.4 %	1.6 %	1.6 %	1.5 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	31	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	WG1931265-2d10 2008TL	Rack	1		
Analysis started at:	6/11/2024 3:56:59 PM	Vial	22		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	100.763 %	98.529 %	5.029 ppb	1,094.468 ppb	1,076.383 ppb	218.183 ppb	1,139.821 ppb	995.127 ppb	99.380 %
Concentration per Run 1	101.016 %	93.137 %	5.058 ppb	1,159.612 ppb	1,132.564 ppb	231.170 ppb	1,189.022 ppb	1,049.887 ppb	89.847 %
Concentration per Run 2	101.041 %	100.000 %	4.924 ppb	1,060.319 ppb	1,051.039 ppb	214.300 ppb	1,129.729 ppb	975.929 ppb	104.975 %
Concentration per Run 3	100.232 %	102.451 %	5.105 ppb	1,063.471 ppb	1,045.546 ppb	209.080 ppb	1,100.712 ppb	959.566 ppb	103.319 %
Concentration RSD	0.5 %	4.9 %	1.9 %	5.2 %	4.5 %	5.3 %	3.9 %	4.8 %	8.3 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	106.991 %	52.047 ppb	20.662 ppb	55.340 ppb	111.997 ppb	51.802 ppb	52.996 ppb	25.853 ppb	51.515 ppb
Concentration per Run 1	103.825 %	55.616 ppb	21.831 ppb	58.308 ppb	116.082 ppb	55.519 ppb	57.084 ppb	27.905 ppb	55.180 ppb
Concentration per Run 2	109.429 %	50.328 ppb	19.796 ppb	53.297 ppb	107.855 ppb	48.405 ppb	50.594 ppb	24.156 ppb	48.682 ppb
Concentration per Run 3	107.721 %	50.198 ppb	20.358 ppb	54.415 ppb	112.054 ppb	51.482 ppb	51.309 ppb	25.499 ppb	50.684 ppb
Concentration RSD	2.7 %	5.9 %	5.1 %	4.8 %	3.7 %	6.9 %	6.7 %	7.3 %	6.5 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	102.177 %	106.461 %	12.820 ppb	12.866 ppb	102.054 ppb	96.258 ppb	98.255 %	102.025 %	5.066 ppb
Concentration per Run 1	103.085 %	99.636 %	13.486 ppb	14.330 ppb	108.422 ppb	101.954 ppb	98.743 %	96.688 %	5.456 ppb
Concentration per Run 2	101.977 %	111.445 %	12.310 ppb	12.201 ppb	98.288 ppb	95.164 ppb	97.516 %	102.969 %	4.903 ppb
Concentration per Run 3	101.469 %	108.301 %	12.663 ppb	12.067 ppb	99.450 ppb	91.655 ppb	98.506 %	106.420 %	4.837 ppb
Concentration RSD	0.8 %	5.7 %	4.7 %	9.9 %	5.4 %	5.4 %	0.7 %	4.8 %	6.7 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	5.347 ppb	99.451 %	107.754 %	47.752 ppb	200.910 ppb	98.145 %	101.597 %	97.763 %	104.126 %
Concentration per Run 1	5.683 ppb	98.436 %	103.365 %	50.361 ppb	208.511 ppb	100.473 %	97.494 %	98.370 %	101.748 %
Concentration per Run 2	5.195 ppb	99.957 %	109.388 %	46.453 ppb	194.640 ppb	96.984 %	103.585 %	97.691 %	105.146 %
Concentration per Run 3	5.162 ppb	99.962 %	110.508 %	46.442 ppb	199.579 ppb	96.979 %	103.713 %	97.230 %	105.483 %
Concentration RSD	5.5 %	0.9 %	3.6 %	4.7 %	3.5 %	2.1 %	3.5 %	0.6 %	2.0 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	9.919 ppb	54.281 ppb	94.889 %	98.766 %
Concentration per Run 1	10.101 ppb	58.080 ppb	92.879 %	93.497 %
Concentration per Run 2	9.913 ppb	52.431 ppb	95.742 %	101.167 %
Concentration per Run 3	9.744 ppb	52.333 ppb	96.046 %	101.633 %
Concentration RSD	1.8 %	6.1 %	1.8 %	4.6 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	32	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430690-01 2008TL	Rack	1		
Analysis started at:	6/11/2024 4:01:40 PM	Vial	23		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	94.863 %	95.016 %	0.050 ppb	43,393.541 ppb	4,669.999 ppb	174.355 ppb	15,602.589 ppb	15,500.621 ppb	106.658 %
Concentration per Run 1	93.897 %	95.833 %	0.057 ppb	43,334.651 ppb	4,637.763 ppb	174.703 ppb	15,663.283 ppb	15,636.048 ppb	106.842 %
Concentration per Run 2	95.239 %	92.647 %	0.047 ppb	44,360.419 ppb	4,761.527 ppb	188.185 ppb	15,740.415 ppb	15,431.283 ppb	105.460 %
Concentration per Run 3	95.454 %	96.569 %	0.045 ppb	42,485.553 ppb	4,610.706 ppb	160.176 ppb	15,404.070 ppb	15,434.532 ppb	107.672 %
Concentration RSD	0.9 %	2.2 %	12.8 %	2.2 %	1.7 %	8.0 %	1.1 %	0.8 %	1.0 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	101.832 %	0.605 ppb	0.844 ppb	90.708 ppb	957.529 ppb	0.460 ppb	1.568 ppb	57.618 ppb	90.915 ppb
Concentration per Run 1	102.384 %	0.583 ppb	0.872 ppb	90.818 ppb	966.010 ppb	0.466 ppb	1.546 ppb	57.744 ppb	92.561 ppb
Concentration per Run 2	100.214 %	0.649 ppb	0.875 ppb	91.649 ppb	983.375 ppb	0.454 ppb	1.667 ppb	58.223 ppb	91.841 ppb
Concentration per Run 3	102.900 %	0.584 ppb	0.785 ppb	89.657 ppb	923.202 ppb	0.458 ppb	1.492 ppb	56.887 ppb	88.342 ppb
Concentration RSD	1.4 %	6.3 %	6.0 %	1.1 %	3.2 %	1.3 %	5.7 %	1.2 %	2.5 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	104.544 %	105.397 %	0.599 ppb	1.328 ppb	67.613 ppb	0.817 ppb	91.449 %	95.182 %	0.147 ppb
Concentration per Run 1	103.417 %	103.322 %	0.556 ppb	1.600 ppb	67.497 ppb	0.783 ppb	90.736 %	93.591 %	0.157 ppb
Concentration per Run 2	105.613 %	105.369 %	0.544 ppb	1.143 ppb	68.088 ppb	0.842 ppb	93.189 %	95.541 %	0.143 ppb
Concentration per Run 3	104.601 %	107.500 %	0.698 ppb	1.240 ppb	67.252 ppb	0.827 ppb	90.422 %	96.414 %	0.142 ppb
Concentration RSD	1.1 %	2.0 %	14.3 %	18.1 %	0.6 %	3.8 %	1.7 %	1.5 %	5.8 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.092 ppb	89.971 %	97.387 %	1.048 ppb	24.733 ppb	94.856 %	99.006 %	94.140 %	104.081 %
Concentration per Run 1	0.099 ppb	81.553 %	96.019 %	0.938 ppb	25.296 ppb	94.246 %	97.917 %	93.048 %	102.482 %
Concentration per Run 2	0.093 ppb	94.215 %	96.725 %	1.034 ppb	24.826 ppb	95.146 %	98.918 %	95.297 %	103.077 %
Concentration per Run 3	0.083 ppb	94.145 %	99.418 %	1.172 ppb	24.078 ppb	95.175 %	100.183 %	94.076 %	106.684 %
Concentration RSD	8.7 %	8.1 %	1.8 %	11.2 %	2.5 %	0.6 %	1.1 %	1.2 %	2.2 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.024 ppb	1.942 ppb	95.777 %	99.896 %
Concentration per Run 1	0.025 ppb	1.997 ppb	95.016 %	96.811 %
Concentration per Run 2	0.023 ppb	1.908 ppb	96.282 %	100.536 %
Concentration per Run 3	0.025 ppb	1.921 ppb	96.033 %	102.342 %
Concentration RSD	4.3 %	2.5 %	0.7 %	2.8 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	33	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	WG1931265-3D10 2008TL	Rack	1		
Analysis started at:	6/11/2024 4:06:22 PM	Vial	24		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	97.726 %	95.261 %	5.018 ppb	6,141.808 ppb	1,538.883 ppb	243.271 ppb	2,804.445 ppb	2,801.227 ppb	97.477 %
Concentration per Run 1	98.340 %	89.461 %	4.950 ppb	6,430.288 ppb	1,641.304 ppb	259.634 ppb	2,913.629 ppb	2,848.025 ppb	101.700 %
Concentration per Run 2	97.422 %	99.020 %	5.031 ppb	6,027.602 ppb	1,496.457 ppb	233.344 ppb	2,758.303 ppb	2,758.282 ppb	103.149 %
Concentration per Run 3	97.415 %	97.304 %	5.074 ppb	5,967.536 ppb	1,478.889 ppb	236.834 ppb	2,741.402 ppb	2,797.375 ppb	87.581 %
Concentration RSD	0.5 %	5.3 %	1.3 %	4.1 %	5.8 %	5.9 %	3.4 %	1.6 %	8.8 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	101.643 %	52.960 ppb	20.611 ppb	64.716 ppb	210.043 ppb	52.276 ppb	51.832 ppb	32.548 ppb	61.649 ppb
Concentration per Run 1	100.089 %	55.104 ppb	21.309 ppb	67.004 ppb	221.350 ppb	54.555 ppb	54.718 ppb	33.661 ppb	62.765 ppb
Concentration per Run 2	102.402 %	51.514 ppb	19.991 ppb	63.336 ppb	199.333 ppb	51.152 ppb	50.634 ppb	31.324 ppb	60.378 ppb
Concentration per Run 3	102.437 %	52.262 ppb	20.531 ppb	63.808 ppb	209.447 ppb	51.121 ppb	50.143 ppb	32.658 ppb	61.804 ppb
Concentration RSD	1.3 %	3.6 %	3.2 %	3.1 %	5.2 %	3.8 %	4.8 %	3.6 %	1.9 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	101.459 %	102.865 %	12.800 ppb	12.598 ppb	105.518 ppb	92.106 ppb	94.688 %	100.452 %	4.943 ppb
Concentration per Run 1	101.406 %	99.872 %	13.432 ppb	13.043 ppb	111.084 ppb	98.296 ppb	97.934 %	94.583 %	5.231 ppb
Concentration per Run 2	101.817 %	105.851 %	12.081 ppb	12.163 ppb	100.653 ppb	86.307 ppb	97.151 %	102.821 %	4.875 ppb
Concentration per Run 3	101.154 %	102.872 %	12.887 ppb	12.588 ppb	104.817 ppb	91.714 ppb	88.978 %	103.953 %	4.722 ppb
Concentration RSD	0.3 %	2.9 %	5.3 %	3.5 %	5.0 %	6.5 %	5.2 %	5.1 %	5.3 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	5.312 ppb	98.295 %	104.857 %	48.708 ppb	200.441 ppb	96.974 %	100.002 %	96.517 %	103.082 %
Concentration per Run 1	5.701 ppb	99.864 %	99.936 %	51.780 ppb	211.323 ppb	98.688 %	94.622 %	96.486 %	96.289 %
Concentration per Run 2	5.079 ppb	96.249 %	106.611 %	46.934 ppb	195.161 ppb	94.770 %	103.418 %	97.639 %	105.155 %
Concentration per Run 3	5.156 ppb	98.774 %	108.023 %	47.412 ppb	194.840 ppb	97.462 %	101.967 %	95.427 %	107.803 %
Concentration RSD	6.4 %	1.9 %	4.1 %	5.5 %	4.7 %	2.1 %	4.7 %	1.1 %	5.8 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	9.860 ppb	53.244 ppb	93.341 %	97.481 %
Concentration per Run 1	9.754 ppb	55.666 ppb	91.676 %	93.457 %
Concentration per Run 2	9.811 ppb	53.000 ppb	93.806 %	97.421 %
Concentration per Run 3	10.016 ppb	51.066 ppb	94.540 %	101.564 %
Concentration RSD	1.4 %	4.3 %	1.6 %	4.2 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	34	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	WG1931265-4 2008TL	Rack	1		
Analysis started at:	6/11/2024 4:15:39 PM	Vial	25		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	97.818 %	96.569 %	0.044 ppb	44,521.455 ppb	4,786.461 ppb	180.794 ppb	16,225.941 ppb	15,552.071 ppb	90.123 %
Concentration per Run 1	98.181 %	97.059 %	0.043 ppb	44,691.620 ppb	4,890.470 ppb	192.190 ppb	16,661.949 ppb	15,833.525 ppb	89.673 %
Concentration per Run 2	97.839 %	101.716 %	0.041 ppb	43,355.955 ppb	4,520.970 ppb	169.828 ppb	15,703.826 ppb	15,613.707 ppb	89.909 %
Concentration per Run 3	97.434 %	90.931 %	0.047 ppb	45,516.790 ppb	4,947.942 ppb	180.366 ppb	16,312.047 ppb	15,208.982 ppb	90.787 %
Concentration RSD	0.4 %	5.6 %	7.2 %	2.4 %	4.8 %	6.2 %	3.0 %	2.0 %	0.7 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	104.513 %	0.507 ppb	0.697 ppb	92.094 ppb	968.097 ppb	0.446 ppb	1.694 ppb	57.581 ppb	90.553 ppb
Concentration per Run 1	104.412 %	0.530 ppb	0.656 ppb	95.304 ppb	1,011.657 ppb	0.463 ppb	1.795 ppb	59.330 ppb	93.419 ppb
Concentration per Run 2	104.430 %	0.495 ppb	0.734 ppb	91.018 ppb	955.194 ppb	0.444 ppb	1.583 ppb	56.136 ppb	88.279 ppb
Concentration per Run 3	104.696 %	0.494 ppb	0.703 ppb	89.961 ppb	937.440 ppb	0.432 ppb	1.702 ppb	57.277 ppb	89.960 ppb
Concentration RSD	0.2 %	4.0 %	5.6 %	3.1 %	4.0 %	3.5 %	6.3 %	2.8 %	2.9 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	106.029 %	105.363 %	0.521 ppb	1.467 ppb	68.443 ppb	0.733 ppb	92.667 %	96.378 %	0.158 ppb
Concentration per Run 1	106.077 %	102.754 %	0.436 ppb	1.775 ppb	71.486 ppb	0.723 ppb	88.421 %	91.112 %	0.165 ppb
Concentration per Run 2	106.408 %	106.869 %	0.539 ppb	1.113 ppb	66.681 ppb	0.738 ppb	95.167 %	98.308 %	0.156 ppb
Concentration per Run 3	105.602 %	106.466 %	0.586 ppb	1.513 ppb	67.161 ppb	0.736 ppb	94.413 %	99.714 %	0.155 ppb
Concentration RSD	0.4 %	2.2 %	14.7 %	22.7 %	3.9 %	1.1 %	4.0 %	4.8 %	3.4 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.095 ppb	94.728 %	98.551 %	0.586 ppb	25.086 ppb	95.592 %	98.063 %	95.899 %	102.373 %
Concentration per Run 1	0.088 ppb	95.098 %	93.279 %	0.582 ppb	25.909 ppb	96.263 %	93.166 %	96.000 %	97.654 %
Concentration per Run 2	0.099 ppb	95.967 %	99.315 %	0.575 ppb	25.035 ppb	93.994 %	100.020 %	94.006 %	105.942 %
Concentration per Run 3	0.097 ppb	93.120 %	103.059 %	0.602 ppb	24.314 ppb	96.519 %	101.003 %	97.691 %	103.522 %
Concentration RSD	5.7 %	1.5 %	5.0 %	2.4 %	3.2 %	1.5 %	4.4 %	1.9 %	4.2 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.021 ppb	1.838 ppb	96.400 %	100.730 %
Concentration per Run 1	0.021 ppb	1.886 ppb	96.092 %	98.444 %
Concentration per Run 2	0.024 ppb	1.841 ppb	96.606 %	100.516 %
Concentration per Run 3	0.019 ppb	1.788 ppb	96.501 %	103.231 %
Concentration RSD	11.9 %	2.7 %	0.3 %	2.4 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	35	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430824-01 2008TL	Rack	1		
Analysis started at:	6/11/2024 4:20:17 PM	Vial	26		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	93.199 %	94.853 %	0.072 ppb	902,632.893 ppb	32,928.894 ppb	487.489 ppb	63,523.991 ppb	97,488.355 ppb	94.806 %
Concentration per Run 1	94.946 %	94.118 %	0.072 ppb	957,827.660 ppb	34,786.312 ppb	508.608 ppb	67,491.199 ppb	105,361.251 ppb	96.221 %
Concentration per Run 2	92.736 %	103.677 %	0.075 ppb	842,861.078 ppb	30,891.774 ppb	452.773 ppb	60,856.199 ppb	93,394.298 ppb	94.203 %
Concentration per Run 3	91.915 %	86.765 %	0.068 ppb	907,209.940 ppb	33,108.596 ppb	501.084 ppb	62,224.576 ppb	93,709.516 ppb	93.994 %
Concentration RSD	1.7 %	8.9 %	5.5 %	6.4 %	5.9 %	6.2 %	5.5 %	7.0 %	1.3 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	78.850 %	2.557 ppb	3.412 ppb	2,470.244 ppb	685.613 ppb	0.699 ppb	2.370 ppb	1.498 ppb	34.674 ppb
Concentration per Run 1	74.794 %	3.038 ppb	3.590 ppb	2,644.200 ppb	721.153 ppb	0.708 ppb	2.681 ppb	1.485 ppb	36.762 ppb
Concentration per Run 2	79.881 %	2.318 ppb	3.181 ppb	2,409.762 ppb	671.477 ppb	0.710 ppb	2.319 ppb	1.436 ppb	33.859 ppb
Concentration per Run 3	81.874 %	2.314 ppb	3.465 ppb	2,356.768 ppb	664.210 ppb	0.679 ppb	2.109 ppb	1.572 ppb	33.402 ppb
Concentration RSD	4.6 %	16.3 %	6.1 %	6.2 %	4.5 %	2.5 %	12.2 %	4.6 %	5.3 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	92.046 %	92.548 %	7.748 ppb	1.845 ppb	628.620 ppb	22.549 ppb	77.077 %	82.398 %	0.007 ppb
Concentration per Run 1	91.788 %	87.665 %	8.153 ppb	1.984 ppb	651.683 ppb	23.667 ppb	75.985 %	77.450 %	0.010 ppb
Concentration per Run 2	92.645 %	94.623 %	7.686 ppb	1.497 ppb	613.481 ppb	21.796 ppb	77.286 %	85.129 %	0.005 ppb
Concentration per Run 3	91.704 %	95.356 %	7.405 ppb	2.054 ppb	620.696 ppb	22.184 ppb	77.961 %	84.616 %	0.005 ppb
Concentration RSD	0.6 %	4.6 %	4.9 %	16.4 %	3.2 %	4.4 %	1.3 %	5.2 %	44.6 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.193 ppb	74.292 %	86.599 %	3.971 ppb	166.254 ppb	84.491 %	91.041 %	84.445 %	95.583 %
Concentration per Run 1	0.198 ppb	73.393 %	81.103 %	4.203 ppb	178.300 ppb	86.177 %	85.130 %	88.680 %	87.298 %
Concentration per Run 2	0.187 ppb	75.908 %	88.049 %	3.845 ppb	162.005 ppb	81.585 %	93.271 %	82.346 %	98.351 %
Concentration per Run 3	0.194 ppb	73.575 %	90.645 %	3.864 ppb	158.455 ppb	85.711 %	94.721 %	82.308 %	101.100 %
Concentration RSD	2.9 %	1.9 %	5.7 %	5.1 %	6.4 %	3.0 %	5.7 %	4.3 %	7.6 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.055 ppb	2.108 ppb	77.346 %	82.322 %
Concentration per Run 1	0.055 ppb	2.323 ppb	77.260 %	74.752 %
Concentration per Run 2	0.059 ppb	2.029 ppb	76.447 %	84.064 %
Concentration per Run 3	0.052 ppb	1.971 ppb	78.330 %	88.151 %
Concentration RSD	6.8 %	8.9 %	1.2 %	8.3 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index: 36
Analysis label: I2430758-01d10 2008SL
Analysis started at: 6/11/2024 4:24:57 PM
User name ALPHALAB\ICPMSRQ
Rack 1
Vial 27
Comment <Comment>

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	93.592 %	91.830 %	1.543 ppb	6,718.842 ppb	4,169.956 ppb	3,338.284 ppb	625.121 ppb	10,162.075 ppb	99.430 %
Concentration per Run 1	94.097 %	93.382 %	1.551 ppb	6,796.176 ppb	4,228.152 ppb	3,361.751 ppb	642.742 ppb	10,741.320 ppb	98.329 %
Concentration per Run 2	94.002 %	88.480 %	1.548 ppb	6,778.656 ppb	4,224.159 ppb	3,371.613 ppb	625.326 ppb	9,822.207 ppb	101.193 %
Concentration per Run 3	92.677 %	93.627 %	1.530 ppb	6,581.694 ppb	4,057.558 ppb	3,281.488 ppb	607.296 ppb	9,922.696 ppb	98.769 %
Concentration RSD	0.8 %	3.2 %	0.8 %	1.8 %	2.3 %	1.5 %	2.8 %	5.0 %	1.6 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	104.940 %	0.035 ppb	0.032 ppb	658.063 ppb	9,623.343 ppb	21.788 ppb	26.996 ppb	5.066 ppb	88.406 ppb
Concentration per Run 1	102.989 %	0.013 ppb	0.031 ppb	679.004 ppb	10,012.288 ppb	22.178 ppb	28.369 ppb	5.153 ppb	90.348 ppb
Concentration per Run 2	105.960 %	0.042 ppb	0.014 ppb	641.773 ppb	9,471.650 ppb	21.399 ppb	26.300 ppb	5.027 ppb	86.615 ppb
Concentration per Run 3	105.871 %	0.051 ppb	0.051 ppb	653.411 ppb	9,386.092 ppb	21.785 ppb	26.319 ppb	5.019 ppb	88.255 ppb
Concentration RSD	1.6 %	56.8 %	59.2 %	2.9 %	3.5 %	1.8 %	4.4 %	1.5 %	2.1 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	96.395 %	102.476 %	0.134 ppb	3.925 ppb	121.998 ppb	0.096 ppb	85.866 %	97.390 %	0.000 ppb
Concentration per Run 1	96.378 %	100.031 %	0.291 ppb	3.876 ppb	123.425 ppb	0.091 ppb	86.145 %	95.805 %	0.000 ppb
Concentration per Run 2	96.787 %	105.719 %	0.142 ppb	4.082 ppb	120.754 ppb	0.093 ppb	84.998 %	97.345 %	0.000 ppb
Concentration per Run 3	96.021 %	101.679 %	-0.030 ppb	3.817 ppb	121.815 ppb	0.105 ppb	86.453 %	99.019 %	0.000 ppb
Concentration RSD	0.4 %	2.9 %	119.6 %	3.5 %	1.1 %	7.7 %	0.9 %	1.7 %	81.4 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.428 ppb	91.308 %	106.645 %	0.045 ppb	2.231 ppb	97.933 %	108.200 %	96.277 %	115.430 %
Concentration per Run 1	0.417 ppb	94.090 %	105.078 %	0.019 ppb	2.277 ppb	98.610 %	104.448 %	96.480 %	114.058 %
Concentration per Run 2	0.455 ppb	95.891 %	105.663 %	0.053 ppb	2.269 ppb	97.515 %	111.577 %	95.352 %	115.441 %
Concentration per Run 3	0.412 ppb	83.941 %	109.193 %	0.061 ppb	2.146 ppb	97.673 %	108.573 %	96.998 %	116.792 %
Concentration RSD	5.4 %	7.1 %	2.1 %	50.0 %	3.3 %	0.6 %	3.3 %	0.9 %	1.2 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.032 ppb	0.329 ppb	93.351 %	106.342 %
Concentration per Run 1	0.032 ppb	0.332 ppb	94.425 %	104.723 %
Concentration per Run 2	0.034 ppb	0.327 ppb	92.912 %	106.593 %
Concentration per Run 3	0.031 ppb	0.328 ppb	92.716 %	107.710 %
Concentration RSD	5.6 %	0.9 %	1.0 %	1.4 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	37	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2430758-03d10 2008SL	Rack	1		
Analysis started at:	6/11/2024 4:29:36 PM	Vial	28		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	93.838 %	81.617 %	1.573 ppb	7,220.775 ppb	4,507.037 ppb	3,594.895 ppb	676.418 ppb	10,698.309 ppb	98.809 %
Concentration per Run 1	93.697 %	78.921 %	1.592 ppb	7,541.304 ppb	4,714.915 ppb	3,692.143 ppb	710.781 ppb	11,334.893 ppb	96.662 %
Concentration per Run 2	93.797 %	80.637 %	1.554 ppb	7,184.053 ppb	4,544.040 ppb	3,581.396 ppb	667.835 ppb	10,363.944 ppb	99.501 %
Concentration per Run 3	94.019 %	85.294 %	1.574 ppb	6,936.968 ppb	4,262.154 ppb	3,511.146 ppb	650.637 ppb	10,396.091 ppb	100.265 %
Concentration RSD	0.2 %	4.0 %	1.2 %	4.2 %	5.1 %	2.5 %	4.6 %	5.2 %	1.9 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	101.477 %	0.043 ppb	0.044 ppb	676.028 ppb	9,930.391 ppb	21.863 ppb	27.071 ppb	5.090 ppb	90.851 ppb
Concentration per Run 1	96.976 %	0.033 ppb	0.062 ppb	706.138 ppb	10,444.490 ppb	23.156 ppb	28.734 ppb	5.423 ppb	95.320 ppb
Concentration per Run 2	103.042 %	0.079 ppb	0.031 ppb	662.542 ppb	9,622.241 ppb	21.206 ppb	26.615 ppb	4.878 ppb	89.411 ppb
Concentration per Run 3	104.412 %	0.016 ppb	0.040 ppb	659.405 ppb	9,724.440 ppb	21.228 ppb	25.863 ppb	4.970 ppb	87.823 ppb
Concentration RSD	3.9 %	75.6 %	35.1 %	3.9 %	4.5 %	5.1 %	5.5 %	5.7 %	4.3 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	95.705 %	101.797 %	0.033 ppb	4.340 ppb	124.983 ppb	0.044 ppb	86.883 %	93.730 %	0.001 ppb
Concentration per Run 1	95.318 %	98.372 %	0.032 ppb	4.443 ppb	130.363 ppb	0.034 ppb	87.972 %	89.753 %	0.001 ppb
Concentration per Run 2	95.436 %	101.980 %	0.127 ppb	3.755 ppb	123.207 ppb	0.044 ppb	85.314 %	94.560 %	0.001 ppb
Concentration per Run 3	96.361 %	105.037 %	-0.059 ppb	4.821 ppb	121.378 ppb	0.053 ppb	87.362 %	96.876 %	0.000 ppb
Concentration RSD	0.6 %	3.3 %	280.0 %	12.5 %	3.8 %	20.6 %	1.6 %	3.9 %	63.4 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.475 ppb	94.586 %	102.984 %	0.009 ppb	2.329 ppb	98.107 %	104.276 %	94.915 %	112.369 %
Concentration per Run 1	0.501 ppb	94.904 %	98.372 %	-0.007 ppb	2.379 ppb	99.933 %	98.219 %	95.639 %	106.383 %
Concentration per Run 2	0.477 ppb	93.771 %	105.245 %	0.016 ppb	2.278 ppb	97.728 %	105.557 %	95.059 %	115.352 %
Concentration per Run 3	0.448 ppb	95.084 %	105.334 %	0.017 ppb	2.329 ppb	96.661 %	109.051 %	94.049 %	115.373 %
Concentration RSD	5.6 %	0.8 %	3.9 %	155.2 %	2.2 %	1.7 %	5.3 %	0.8 %	4.6 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.033 ppb	0.344 ppb	94.898 %	102.743 %
Concentration per Run 1	0.030 ppb	0.367 ppb	95.676 %	97.712 %
Concentration per Run 2	0.033 ppb	0.336 ppb	95.519 %	104.598 %
Concentration per Run 3	0.035 ppb	0.329 ppb	93.499 %	105.920 %
Concentration RSD	7.1 %	5.8 %	1.3 %	4.3 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	38	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	6/11/2024 4:34:16 PM	Vial	9		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	90.284 %	84.559 %	58.875 ppb	6,066.597 ppb	6,138.855 ppb	63.782 ppb	6,125.474 ppb	6,245.262 ppb	96.911 %
Concentration per Run 1	90.634 %	79.902 %	58.989 ppb	6,292.368 ppb	6,431.801 ppb	67.656 ppb	6,145.924 ppb	6,293.864 ppb	98.188 %
Concentration per Run 2	90.000 %	89.706 %	58.907 ppb	5,772.770 ppb	5,773.792 ppb	63.106 ppb	6,031.922 ppb	6,070.032 ppb	96.873 %
Concentration per Run 3	90.219 %	84.068 %	58.730 ppb	6,134.655 ppb	6,210.972 ppb	60.583 ppb	6,198.577 ppb	6,371.891 ppb	95.672 %
Recovery Percentage 1			98.125 %	101.110 %	102.314 %	106.303 %	102.091 %	104.088 %	
Concentration RSD	0.4 %	5.8 %	0.2 %	4.4 %	5.5 %	5.6 %	1.4 %	2.5 %	1.3 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	102.645 %	61.359 ppb	59.950 ppb	61.757 ppb	6,133.881 ppb	60.278 ppb	60.393 ppb	59.357 ppb	60.712 ppb
Concentration per Run 1	102.757 %	61.660 ppb	61.333 ppb	62.566 ppb	6,181.205 ppb	61.744 ppb	61.935 ppb	61.525 ppb	62.771 ppb
Concentration per Run 2	104.056 %	60.137 ppb	58.245 ppb	60.672 ppb	5,918.452 ppb	59.439 ppb	58.606 ppb	56.286 ppb	58.974 ppb
Concentration per Run 3	101.121 %	62.280 ppb	60.271 ppb	62.034 ppb	6,301.986 ppb	59.652 ppb	60.639 ppb	60.259 ppb	60.392 ppb
Recovery Percentage 1		102.265 %	99.916 %	102.929 %	102.231 %	100.464 %	100.655 %	98.928 %	101.187 %
Concentration RSD	1.4 %	1.8 %	2.6 %	1.6 %	3.2 %	2.1 %	2.8 %	4.6 %	3.2 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	93.345 %	101.378 %	58.815 ppb	60.746 ppb	65.112 ppb	57.903 ppb	83.876 %	95.199 %	58.267 ppb
Concentration per Run 1	92.789 %	97.827 %	61.694 ppb	62.024 ppb	67.253 ppb	59.970 ppb	83.566 %	93.022 %	60.686 ppb
Concentration per Run 2	95.220 %	105.817 %	55.870 ppb	59.785 ppb	61.761 ppb	56.199 ppb	83.325 %	95.587 %	57.466 ppb
Concentration per Run 3	92.026 %	100.490 %	58.883 ppb	60.430 ppb	66.321 ppb	57.540 ppb	84.737 %	96.987 %	56.649 ppb
Recovery Percentage 1			98.026 %	101.244 %	108.520 %	96.505 %			97.112 %
Concentration RSD	1.8 %	4.0 %	5.0 %	1.9 %	4.5 %	3.3 %	0.9 %	2.1 %	3.7 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	58.829 ppb	87.515 %	105.252 %	56.375 ppb	60.468 ppb	94.962 %	103.703 %	94.495 %	111.764 %
Concentration per Run 1	61.111 ppb	78.426 %	101.451 %	58.055 ppb	61.946 ppb	94.963 %	100.627 %	93.842 %	108.638 %
Concentration per Run 2	57.961 ppb	93.719 %	106.691 %	54.761 ppb	60.219 ppb	94.607 %	104.493 %	94.789 %	113.452 %
Concentration per Run 3	57.414 ppb	90.402 %	107.615 %	56.309 ppb	59.239 ppb	95.315 %	105.989 %	94.855 %	113.201 %
Recovery Percentage 1	98.048 %			93.959 %	100.780 %				
Concentration RSD	3.4 %	9.2 %	3.2 %	2.9 %	2.3 %	0.4 %	2.7 %	0.6 %	2.4 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	60.948 ppb	58.411 ppb	91.227 %	100.194 %
Concentration per Run 1	59.423 ppb	60.615 ppb	91.873 %	97.568 %
Concentration per Run 2	61.871 ppb	57.377 ppb	91.138 %	100.390 %
Concentration per Run 3	61.550 ppb	57.241 ppb	90.671 %	102.624 %
Recovery Percentage 1	101.580 %	97.351 %		
Concentration RSD	2.2 %	3.3 %	0.7 %	2.5 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	39	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/11/2024 4:39:01 PM	Vial	10		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	92.229 %	84.722 %	0.020 ppb	4.047 ppb	0.453 ppb	0.747 ppb	12.921 ppb	1.347 ppb	92.279 %
Concentration per Run 1	92.631 %	77.696 %	0.025 ppb	7.713 ppb	0.242 ppb	1.790 ppb	15.414 ppb	0.767 ppb	92.598 %
Concentration per Run 2	92.176 %	87.255 %	0.018 ppb	3.454 ppb	0.675 ppb	-0.652 ppb	12.054 ppb	-10.927 ppb	92.209 %
Concentration per Run 3	91.879 %	89.216 %	0.018 ppb	0.974 ppb	0.443 ppb	1.105 ppb	11.296 ppb	14.202 ppb	92.028 %
Recovery Percentage 1			4.070 %	4.047 %	0.648 %	7.474 %	12.921 %	1.347 %	
Concentration RSD	0.4 %	7.3 %	20.0 %	84.2 %	47.8 %	168.5 %	17.0 %	933.5 %	0.3 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	97.509 %	0.017 ppb	-0.022 ppb	0.251 ppb	4.376 ppb	0.009 ppb	0.103 ppb	0.034 ppb	0.508 ppb
Concentration per Run 1	95.055 %	0.011 ppb	-0.018 ppb	0.252 ppb	4.209 ppb	0.013 ppb	0.129 ppb	0.049 ppb	0.511 ppb
Concentration per Run 2	97.492 %	0.014 ppb	-0.037 ppb	0.259 ppb	3.940 ppb	0.008 ppb	0.101 ppb	0.035 ppb	0.530 ppb
Concentration per Run 3	99.982 %	0.027 ppb	-0.011 ppb	0.241 ppb	4.979 ppb	0.005 ppb	0.080 ppb	0.019 ppb	0.482 ppb
Recovery Percentage 1		0.348 %	-2.168 %	25.068 %	8.752 %	1.718 %	5.170 %	3.429 %	10.150 %
Concentration RSD	2.5 %	49.7 %	62.5 %	3.7 %	12.3 %	46.1 %	24.1 %	43.5 %	4.8 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	91.554 %	98.396 %	0.095 ppb	0.061 ppb	0.024 ppb	0.192 ppb	91.877 %	96.026 %	0.005 ppb
Concentration per Run 1	91.679 %	94.322 %	0.107 ppb	0.088 ppb	0.020 ppb	0.162 ppb	84.749 %	91.399 %	0.006 ppb
Concentration per Run 2	90.931 %	99.711 %	0.092 ppb	0.084 ppb	0.006 ppb	0.206 ppb	95.583 %	99.233 %	0.004 ppb
Concentration per Run 3	92.051 %	101.156 %	0.087 ppb	0.010 ppb	0.046 ppb	0.208 ppb	95.297 %	97.446 %	0.004 ppb
Recovery Percentage 1			19.055 %	1.212 %	4.812 %	9.609 %			1.135 %
Concentration RSD	0.6 %	3.7 %	11.0 %	72.5 %	83.4 %	13.8 %	6.7 %	4.3 %	18.7 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.005 ppb	95.456 %	104.822 %	0.760 ppb	0.014 ppb	95.936 %	102.406 %	93.146 %	110.234 %
Concentration per Run 1	0.009 ppb	95.374 %	99.343 %	0.679 ppb	-0.011 ppb	95.550 %	96.057 %	92.974 %	102.766 %
Concentration per Run 2	0.002 ppb	95.697 %	105.977 %	0.784 ppb	0.019 ppb	95.544 %	105.444 %	93.049 %	113.541 %
Concentration per Run 3	0.003 ppb	95.298 %	109.147 %	0.816 ppb	0.033 ppb	96.714 %	105.717 %	93.414 %	114.396 %
Recovery Percentage 1				18.996 %	2.765 %				
Concentration RSD	85.8 %	0.2 %	4.8 %	9.4 %	161.8 %	0.7 %	5.4 %	0.3 %	5.9 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.150 ppb	0.017 ppb	93.942 %	101.396 %
Concentration per Run 1	0.169 ppb	0.021 ppb	94.405 %	95.071 %
Concentration per Run 2	0.145 ppb	0.018 ppb	94.995 %	103.518 %
Concentration per Run 3	0.135 ppb	0.014 ppb	92.427 %	105.599 %
Recovery Percentage 1	14.974 %	1.749 %		
Concentration RSD	11.5 %	18.0 %	1.4 %	5.5 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	40	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	WG1931233-1 6020TL	Rack	1		
Analysis started at:	6/11/2024 4:50:56 PM	Vial	29		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	100.900 %	98.039 %	0.006 ppb	-2.088 ppb	2.025 ppb	1.824 ppb	4.875 ppb	3.879 ppb	100.824 %
Concentration per Run 1	103.315 %	89.216 %	0.007 ppb	0.830 ppb	1.952 ppb	0.598 ppb	6.476 ppb	-1.306 ppb	101.305 %
Concentration per Run 2	100.445 %	101.961 %	0.010 ppb	-2.796 ppb	1.353 ppb	2.450 ppb	6.637 ppb	14.774 ppb	100.858 %
Concentration per Run 3	98.940 %	102.941 %	0.001 ppb	-4.298 ppb	2.769 ppb	2.425 ppb	1.511 ppb	-1.830 ppb	100.310 %
Concentration RSD	2.2 %	7.8 %	81.1 %	126.3 %	35.1 %	58.2 %	59.8 %	243.3 %	0.5 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	109.132 %	0.015 ppb	0.122 ppb	0.313 ppb	11.703 ppb	0.004 ppb	0.015 ppb	0.080 ppb	0.321 ppb
Concentration per Run 1	106.742 %	0.007 ppb	0.146 ppb	0.318 ppb	11.258 ppb	0.003 ppb	0.007 ppb	0.094 ppb	0.323 ppb
Concentration per Run 2	110.051 %	0.014 ppb	0.101 ppb	0.319 ppb	13.572 ppb	0.006 ppb	0.019 ppb	0.086 ppb	0.285 ppb
Concentration per Run 3	110.603 %	0.023 ppb	0.120 ppb	0.301 ppb	10.278 ppb	0.003 ppb	0.018 ppb	0.058 ppb	0.354 ppb
Concentration RSD	1.9 %	52.2 %	18.4 %	3.2 %	14.5 %	43.1 %	46.6 %	23.6 %	10.9 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	98.790 %	107.237 %	0.027 ppb	-0.008 ppb	0.011 ppb	0.030 ppb	102.053 %	103.945 %	0.001 ppb
Concentration per Run 1	99.784 %	103.230 %	-0.017 ppb	0.018 ppb	0.017 ppb	0.028 ppb	102.330 %	97.604 %	0.002 ppb
Concentration per Run 2	99.278 %	109.182 %	0.080 ppb	-0.018 ppb	0.015 ppb	0.032 ppb	100.673 %	105.840 %	0.000 ppb
Concentration per Run 3	97.309 %	109.299 %	0.016 ppb	-0.024 ppb	0.001 ppb	0.029 ppb	103.155 %	108.392 %	0.001 ppb
Concentration RSD	1.3 %	3.2 %	186.1 %	285.6 %	78.0 %	6.4 %	1.2 %	5.4 %	151.1 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.001 ppb	99.364 %	110.850 %	0.081 ppb	0.026 ppb	102.488 %	106.375 %	98.007 %	110.478 %
Concentration per Run 1	0.003 ppb	99.145 %	104.444 %	0.063 ppb	0.030 ppb	101.816 %	101.731 %	98.277 %	105.226 %
Concentration per Run 2	0.000 ppb	98.128 %	114.295 %	0.084 ppb	0.027 ppb	102.184 %	109.190 %	98.289 %	112.524 %
Concentration per Run 3	0.002 ppb	100.820 %	113.811 %	0.096 ppb	0.022 ppb	103.464 %	108.205 %	97.454 %	113.685 %
Concentration RSD	121.2 %	1.4 %	5.0 %	20.3 %	15.4 %	0.8 %	3.8 %	0.5 %	4.2 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.017 ppb	0.024 ppb	100.351 %	106.428 %
Concentration per Run 1	0.017 ppb	0.025 ppb	101.529 %	104.592 %
Concentration per Run 2	0.017 ppb	0.024 ppb	99.384 %	107.721 %
Concentration per Run 3	0.016 ppb	0.023 ppb	100.140 %	106.973 %
Concentration RSD	4.0 %	5.2 %	1.1 %	1.5 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	41	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	WG1931233-2d10 6020TL	Rack	1		
Analysis started at:	6/11/2024 4:55:36 PM	Vial	30		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	98.986 %	88.970 %	4.832 ppb	1,080.563 ppb	1,069.566 ppb	211.325 ppb	1,116.557 ppb	972.493 ppb	98.117 %
Concentration per Run 1	98.863 %	85.049 %	4.885 ppb	1,151.363 ppb	1,140.687 ppb	233.068 ppb	1,165.248 ppb	1,025.296 ppb	97.905 %
Concentration per Run 2	98.504 %	94.363 %	4.818 ppb	1,025.892 ppb	994.609 ppb	204.750 ppb	1,090.502 ppb	879.829 ppb	97.946 %
Concentration per Run 3	99.593 %	87.500 %	4.792 ppb	1,064.436 ppb	1,073.402 ppb	196.156 ppb	1,093.921 ppb	1,012.355 ppb	98.499 %
Concentration RSD	0.6 %	5.4 %	1.0 %	5.9 %	6.8 %	9.1 %	3.8 %	8.3 %	0.3 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	102.319 %	52.645 ppb	20.389 ppb	54.557 ppb	112.563 ppb	52.096 ppb	51.482 ppb	25.113 ppb	51.211 ppb
Concentration per Run 1	97.278 %	55.827 ppb	21.326 ppb	57.046 ppb	118.031 ppb	53.347 ppb	53.966 ppb	25.701 ppb	53.144 ppb
Concentration per Run 2	103.611 %	51.462 ppb	20.056 ppb	53.411 ppb	111.465 ppb	51.940 ppb	50.704 ppb	24.795 ppb	50.345 ppb
Concentration per Run 3	106.066 %	50.645 ppb	19.784 ppb	53.214 ppb	108.194 ppb	51.001 ppb	49.775 ppb	24.843 ppb	50.143 ppb
Concentration RSD	4.4 %	5.3 %	4.0 %	4.0 %	4.5 %	2.3 %	4.3 %	2.0 %	3.3 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	98.556 %	101.535 %	12.652 ppb	12.426 ppb	106.105 ppb	95.146 ppb	99.247 %	98.248 %	5.010 ppb
Concentration per Run 1	98.746 %	98.614 %	12.798 ppb	13.566 ppb	110.070 ppb	101.649 ppb	98.725 %	93.790 %	5.408 ppb
Concentration per Run 2	99.233 %	102.363 %	12.888 ppb	11.992 ppb	104.479 ppb	90.640 ppb	100.241 %	100.321 %	4.879 ppb
Concentration per Run 3	97.689 %	103.627 %	12.272 ppb	11.719 ppb	103.766 ppb	93.150 ppb	98.777 %	100.633 %	4.742 ppb
Concentration RSD	0.8 %	2.6 %	2.6 %	8.0 %	3.3 %	6.1 %	0.9 %	3.9 %	7.0 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	5.208 ppb	99.598 %	108.018 %	47.975 ppb	198.480 ppb	100.216 %	104.257 %	99.199 %	107.459 %
Concentration per Run 1	5.497 ppb	97.438 %	101.095 %	50.867 ppb	213.755 ppb	99.958 %	98.117 %	98.752 %	100.264 %
Concentration per Run 2	5.046 ppb	99.906 %	110.126 %	46.583 ppb	191.855 ppb	100.446 %	105.833 %	99.158 %	108.253 %
Concentration per Run 3	5.080 ppb	101.451 %	112.832 %	46.475 ppb	189.831 ppb	100.244 %	108.820 %	99.686 %	113.860 %
Concentration RSD	4.8 %	2.0 %	5.7 %	5.2 %	6.7 %	0.2 %	5.3 %	0.5 %	6.4 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	9.566 ppb	54.063 ppb	97.072 %	99.580 %
Concentration per Run 1	9.553 ppb	57.164 ppb	96.443 %	95.291 %
Concentration per Run 2	9.638 ppb	53.785 ppb	95.585 %	100.040 %
Concentration per Run 3	9.506 ppb	51.240 ppb	99.189 %	103.410 %
Concentration RSD	0.7 %	5.5 %	1.9 %	4.1 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	42	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2428965-12 6020TL	Rack	1		
Analysis started at:	6/11/2024 5:00:17 PM	Vial	31		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	98.021 %	92.974 %	0.007 ppb	3,031.343 ppb	14,079.783 ppb	5.307 ppb	2,263.886 ppb	23,801.141 ppb	99.043 %
Concentration per Run 1	98.335 %	93.873 %	0.006 ppb	3,096.566 ppb	14,533.891 ppb	7.113 ppb	2,317.186 ppb	25,794.433 ppb	103.696 %
Concentration per Run 2	98.180 %	94.853 %	0.006 ppb	2,915.721 ppb	13,545.398 ppb	3.875 ppb	2,189.399 ppb	22,844.274 ppb	90.538 %
Concentration per Run 3	97.547 %	90.196 %	0.008 ppb	3,081.741 ppb	14,160.061 ppb	4.933 ppb	2,285.072 ppb	22,764.716 ppb	102.894 %
Concentration RSD	0.4 %	2.6 %	18.9 %	3.3 %	3.5 %	31.1 %	2.9 %	7.3 %	7.4 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	103.309 %	7.421 ppb	8.821 ppb	4.956 ppb	3,862.574 ppb	0.291 ppb	0.897 ppb	54.554 ppb	77.610 ppb
Concentration per Run 1	99.822 %	7.662 ppb	9.216 ppb	5.226 ppb	4,149.005 ppb	0.324 ppb	1.097 ppb	56.388 ppb	82.347 ppb
Concentration per Run 2	106.618 %	7.242 ppb	8.288 ppb	4.656 ppb	3,678.960 ppb	0.268 ppb	0.721 ppb	53.363 ppb	74.567 ppb
Concentration per Run 3	103.487 %	7.358 ppb	8.960 ppb	4.986 ppb	3,759.757 ppb	0.280 ppb	0.872 ppb	53.911 ppb	75.916 ppb
Concentration RSD	3.3 %	2.9 %	5.4 %	5.8 %	6.5 %	10.1 %	21.1 %	3.0 %	5.4 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	100.315 %	102.176 %	0.637 ppb	0.450 ppb	1,910.339 ppb	0.596 ppb	92.632 %	96.708 %	0.011 ppb
Concentration per Run 1	100.788 %	97.664 %	0.669 ppb	0.519 ppb	1,981.554 ppb	0.606 ppb	96.347 %	91.494 %	0.015 ppb
Concentration per Run 2	100.582 %	106.342 %	0.632 ppb	0.304 ppb	1,862.808 ppb	0.546 ppb	96.343 %	99.659 %	0.011 ppb
Concentration per Run 3	99.575 %	102.523 %	0.609 ppb	0.528 ppb	1,886.654 ppb	0.636 ppb	85.207 %	98.970 %	0.007 ppb
Concentration RSD	0.6 %	4.3 %	4.8 %	28.1 %	3.3 %	7.7 %	6.9 %	4.7 %	36.0 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.020 ppb	97.151 %	101.789 %	0.661 ppb	113.655 ppb	98.860 %	102.429 %	98.938 %	105.854 %
Concentration per Run 1	0.017 ppb	96.507 %	97.153 %	0.626 ppb	120.347 ppb	100.794 %	95.393 %	99.553 %	99.454 %
Concentration per Run 2	0.022 ppb	97.319 %	103.551 %	0.663 ppb	112.691 ppb	98.038 %	106.336 %	97.460 %	108.260 %
Concentration per Run 3	0.022 ppb	97.626 %	104.664 %	0.694 ppb	107.928 ppb	97.749 %	105.557 %	99.802 %	109.848 %
Concentration RSD	12.1 %	0.6 %	4.0 %	5.1 %	5.5 %	1.7 %	6.0 %	1.3 %	5.3 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.040 ppb	32.915 ppb	95.437 %	97.226 %
Concentration per Run 1	0.044 ppb	34.808 ppb	95.327 %	94.708 %
Concentration per Run 2	0.038 ppb	32.340 ppb	96.029 %	98.129 %
Concentration per Run 3	0.036 ppb	31.598 ppb	94.955 %	98.842 %
Concentration RSD	10.7 %	5.1 %	0.6 %	2.3 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index: 43
Analysis label: WG1931233-3d10 6020TL
Analysis started at: 6/11/2024 5:04:57 PM
User name ALPHALAB\ICPMSRQ
Rack 1
Vial 32
Comment <Comment>

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	98.236 %	94.199 %	4.968 ppb	1,403.416 ppb	2,583.436 ppb	219.499 ppb	1,398.716 ppb	3,527.717 ppb	95.801 %
Concentration per Run 1	99.312 %	88.725 %	4.931 ppb	1,493.617 ppb	2,773.338 ppb	234.275 ppb	1,486.729 ppb	3,905.223 ppb	98.762 %
Concentration per Run 2	97.323 %	95.343 %	4.995 ppb	1,397.014 ppb	2,518.586 ppb	212.190 ppb	1,356.177 ppb	3,348.866 ppb	98.160 %
Concentration per Run 3	98.072 %	98.529 %	4.979 ppb	1,319.618 ppb	2,458.385 ppb	212.032 ppb	1,353.241 ppb	3,329.062 ppb	90.481 %
Concentration RSD	1.0 %	5.3 %	0.7 %	6.2 %	6.5 %	5.8 %	5.5 %	9.3 %	4.8 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	98.565 %	54.834 ppb	22.234 ppb	57.019 ppb	460.440 ppb	53.390 ppb	53.593 ppb	31.837 ppb	60.644 ppb
Concentration per Run 1	93.916 %	58.312 ppb	24.171 ppb	61.010 ppb	502.715 ppb	57.438 ppb	59.043 ppb	34.308 ppb	66.037 ppb
Concentration per Run 2	99.626 %	52.466 ppb	20.946 ppb	54.891 ppb	441.161 ppb	51.440 ppb	51.211 ppb	29.870 ppb	57.451 ppb
Concentration per Run 3	102.153 %	53.725 ppb	21.584 ppb	55.156 ppb	437.444 ppb	51.292 ppb	50.526 ppb	31.332 ppb	58.444 ppb
Concentration RSD	4.3 %	5.6 %	7.7 %	6.1 %	8.0 %	6.6 %	8.8 %	7.1 %	7.7 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	100.168 %	101.958 %	12.491 ppb	12.293 ppb	302.031 ppb	94.388 ppb	97.405 %	97.810 %	5.119 ppb
Concentration per Run 1	101.713 %	95.646 %	13.424 ppb	13.620 ppb	323.596 ppb	102.481 ppb	96.812 %	88.954 %	5.611 ppb
Concentration per Run 2	99.398 %	106.729 %	11.824 ppb	12.255 ppb	288.025 ppb	88.815 ppb	97.500 %	102.433 %	4.861 ppb
Concentration per Run 3	99.394 %	103.498 %	12.225 ppb	11.005 ppb	294.471 ppb	91.867 ppb	97.903 %	102.042 %	4.884 ppb
Concentration RSD	1.3 %	5.6 %	6.7 %	10.6 %	6.3 %	7.6 %	0.6 %	7.8 %	8.3 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	5.434 ppb	99.864 %	105.212 %	50.197 ppb	217.055 ppb	99.599 %	100.994 %	98.164 %	105.160 %
Concentration per Run 1	5.818 ppb	98.865 %	97.678 %	54.830 ppb	235.541 ppb	99.885 %	94.036 %	98.125 %	97.333 %
Concentration per Run 2	5.273 ppb	101.719 %	106.893 %	48.180 ppb	208.565 ppb	99.674 %	104.637 %	98.389 %	108.582 %
Concentration per Run 3	5.213 ppb	99.008 %	111.066 %	47.581 ppb	207.058 ppb	99.239 %	104.309 %	97.978 %	109.566 %
Concentration RSD	6.1 %	1.6 %	6.5 %	8.0 %	7.4 %	0.3 %	6.0 %	0.2 %	6.5 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	9.755 ppb	58.114 ppb	95.012 %	98.036 %
Concentration per Run 1	9.518 ppb	62.941 ppb	93.989 %	89.526 %
Concentration per Run 2	9.743 ppb	56.360 ppb	95.927 %	100.695 %
Concentration per Run 3	10.005 ppb	55.040 ppb	95.119 %	103.887 %
Concentration RSD	2.5 %	7.3 %	1.0 %	7.7 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index: 44
Analysis label: WG1931233-4 6020TL
Analysis started at: 6/11/2024 5:09:39 PM
User name ALPHALAB\ICPMSRQ
Rack 1
Vial 33
Comment <Comment>

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	97.686 %	96.078 %	0.008 ppb	2,958.608 ppb	13,711.064 ppb	6.228 ppb	2,306.799 ppb	23,604.480 ppb	104.764 %
Concentration per Run 1	97.856 %	94.118 %	0.012 ppb	3,099.675 ppb	14,193.125 ppb	4.995 ppb	2,397.355 ppb	25,585.607 ppb	106.994 %
Concentration per Run 2	98.632 %	94.118 %	0.001 ppb	2,973.338 ppb	13,777.677 ppb	7.873 ppb	2,301.407 ppb	22,860.078 ppb	104.011 %
Concentration per Run 3	96.571 %	100.000 %	0.009 ppb	2,802.811 ppb	13,162.390 ppb	5.816 ppb	2,221.636 ppb	22,367.755 ppb	103.288 %
Concentration RSD	1.1 %	3.5 %	80.0 %	5.0 %	3.8 %	23.8 %	3.8 %	7.3 %	1.9 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	101.957 %	7.369 ppb	8.880 ppb	5.082 ppb	3,699.341 ppb	0.319 ppb	0.905 ppb	56.159 ppb	77.840 ppb
Concentration per Run 1	98.310 %	7.781 ppb	9.430 ppb	5.381 ppb	4,004.264 ppb	0.363 ppb	1.018 ppb	61.942 ppb	84.305 ppb
Concentration per Run 2	101.726 %	7.301 ppb	8.861 ppb	4.965 ppb	3,598.358 ppb	0.303 ppb	0.848 ppb	53.797 ppb	75.164 ppb
Concentration per Run 3	105.835 %	7.025 ppb	8.349 ppb	4.899 ppb	3,495.402 ppb	0.292 ppb	0.847 ppb	52.736 ppb	74.051 ppb
Concentration RSD	3.7 %	5.2 %	6.1 %	5.1 %	7.3 %	12.0 %	10.9 %	9.0 %	7.2 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	100.788 %	103.120 %	0.563 ppb	0.433 ppb	1,888.131 ppb	0.636 ppb	96.771 %	96.625 %	0.011 ppb
Concentration per Run 1	100.489 %	96.121 %	0.664 ppb	0.522 ppb	2,011.272 ppb	0.569 ppb	97.348 %	90.697 %	0.013 ppb
Concentration per Run 2	101.230 %	106.493 %	0.522 ppb	0.365 ppb	1,852.319 ppb	0.630 ppb	95.257 %	97.705 %	0.011 ppb
Concentration per Run 3	100.644 %	106.744 %	0.502 ppb	0.413 ppb	1,800.803 ppb	0.710 ppb	97.708 %	101.472 %	0.009 ppb
Concentration RSD	0.4 %	5.9 %	15.7 %	18.6 %	5.8 %	11.1 %	1.4 %	5.7 %	20.9 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.025 ppb	96.681 %	101.247 %	0.420 ppb	113.088 ppb	99.765 %	102.216 %	98.165 %	104.998 %
Concentration per Run 1	0.030 ppb	96.120 %	93.913 %	0.419 ppb	122.513 ppb	101.134 %	94.360 %	98.598 %	98.598 %
Concentration per Run 2	0.024 ppb	96.483 %	105.143 %	0.405 ppb	108.807 ppb	98.551 %	104.681 %	97.966 %	107.066 %
Concentration per Run 3	0.021 ppb	97.439 %	104.685 %	0.437 ppb	107.944 ppb	99.611 %	107.608 %	97.931 %	109.331 %
Concentration RSD	17.7 %	0.7 %	6.3 %	3.9 %	7.2 %	1.3 %	6.8 %	0.4 %	5.4 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.077 ppb	32.646 ppb	93.830 %	98.067 %
Concentration per Run 1	0.087 ppb	35.337 ppb	93.129 %	91.301 %
Concentration per Run 2	0.074 ppb	32.190 ppb	95.463 %	98.610 %
Concentration per Run 3	0.069 ppb	30.412 ppb	92.897 %	104.289 %
Concentration RSD	12.3 %	7.6 %	1.5 %	6.6 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index: 45
Analysis label: WG1931233-5d10 6020TL
Analysis started at: 6/11/2024 5:14:20 PM
User name ALPHALAB\ICPMSRQ
Rack 1
Vial 34
Comment <Comment>

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	97.647 %	94.608 %	46.942 ppb	5,112.608 ppb	6,292.262 ppb	53.555 ppb	5,289.240 ppb	7,348.651 ppb	102.001 %
Concentration per Run 1	98.265 %	96.323 %	46.875 ppb	5,146.622 ppb	6,242.558 ppb	50.942 ppb	5,342.213 ppb	7,397.927 ppb	102.037 %
Concentration per Run 2	97.078 %	90.441 %	47.389 ppb	5,163.336 ppb	6,472.463 ppb	59.647 ppb	5,249.268 ppb	7,412.824 ppb	100.166 %
Concentration per Run 3	97.598 %	97.059 %	46.562 ppb	5,027.866 ppb	6,161.766 ppb	50.075 ppb	5,276.238 ppb	7,235.200 ppb	103.800 %
Concentration RSD	0.6 %	3.8 %	0.9 %	1.4 %	2.6 %	9.9 %	0.9 %	1.3 %	1.8 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	106.428 %	50.028 ppb	48.868 ppb	50.689 ppb	5,358.935 ppb	49.188 ppb	48.717 ppb	52.855 ppb	56.696 ppb
Concentration per Run 1	104.714 %	51.156 ppb	50.800 ppb	52.175 ppb	5,533.136 ppb	50.628 ppb	52.743 ppb	55.622 ppb	59.520 ppb
Concentration per Run 2	107.312 %	49.292 ppb	48.295 ppb	50.201 ppb	5,266.923 ppb	47.418 ppb	46.592 ppb	51.484 ppb	55.263 ppb
Concentration per Run 3	107.258 %	49.635 ppb	47.509 ppb	49.692 ppb	5,276.745 ppb	49.518 ppb	46.816 ppb	51.459 ppb	55.304 ppb
Concentration RSD	1.4 %	2.0 %	3.5 %	2.6 %	2.8 %	3.3 %	7.2 %	4.5 %	4.3 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	101.579 %	104.463 %	46.348 ppb	46.130 ppb	241.677 ppb	47.764 ppb	94.354 %	98.980 %	1.405 ppb
Concentration per Run 1	101.678 %	99.684 %	48.407 ppb	48.972 ppb	252.657 ppb	49.561 ppb	96.984 %	96.268 %	1.473 ppb
Concentration per Run 2	101.818 %	105.472 %	45.616 ppb	44.581 ppb	238.950 ppb	48.439 ppb	98.973 %	100.456 %	1.404 ppb
Concentration per Run 3	101.241 %	108.233 %	45.021 ppb	44.837 ppb	233.425 ppb	45.292 ppb	87.104 %	100.215 %	1.339 ppb
Concentration RSD	0.3 %	4.2 %	3.9 %	5.3 %	4.1 %	4.6 %	6.7 %	2.4 %	4.7 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	46.111 ppb	96.448 %	104.791 %	47.798 ppb	58.097 ppb	98.401 %	103.112 %	98.624 %	106.317 %
Concentration per Run 1	49.267 ppb	97.437 %	98.473 %	50.654 ppb	61.451 ppb	100.380 %	97.065 %	101.198 %	98.899 %
Concentration per Run 2	44.002 ppb	96.049 %	107.245 %	46.817 ppb	57.226 ppb	97.491 %	104.300 %	97.197 %	107.416 %
Concentration per Run 3	45.064 ppb	95.859 %	108.656 %	45.924 ppb	55.614 ppb	97.332 %	107.972 %	97.477 %	112.635 %
Concentration RSD	6.0 %	0.9 %	5.3 %	5.3 %	5.2 %	1.7 %	5.4 %	2.3 %	6.5 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	45.742 ppb	49.900 ppb	95.839 %	97.597 %
Concentration per Run 1	47.216 ppb	52.454 ppb	93.972 %	94.824 %
Concentration per Run 2	44.652 ppb	48.675 ppb	96.258 %	99.035 %
Concentration per Run 3	45.358 ppb	48.571 ppb	97.288 %	98.930 %
Concentration RSD	2.9 %	4.4 %	1.8 %	2.5 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	46	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	WG1931233-6d5 6020TL	Rack	1		
Analysis started at:	6/11/2024 5:19:02 PM	Vial	35		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	98.788 %	92.075 %	0.017 ppb	627.918 ppb	2,917.687 ppb	1.585 ppb	475.397 ppb	4,827.777 ppb	101.149 %
Concentration per Run 1	98.191 %	89.951 %	0.025 ppb	657.801 ppb	3,058.454 ppb	1.975 ppb	501.691 ppb	5,309.104 ppb	103.556 %
Concentration per Run 2	99.140 %	88.235 %	0.014 ppb	619.677 ppb	2,872.208 ppb	0.175 ppb	471.480 ppb	4,660.233 ppb	100.069 %
Concentration per Run 3	99.033 %	98.039 %	0.011 ppb	606.274 ppb	2,822.399 ppb	2.605 ppb	453.019 ppb	4,513.994 ppb	99.823 %
Concentration RSD	0.5 %	5.7 %	44.8 %	4.3 %	4.3 %	79.6 %	5.2 %	8.8 %	2.1 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	104.121 %	1.528 ppb	1.807 ppb	1.102 ppb	789.571 ppb	0.080 ppb	0.210 ppb	11.591 ppb	16.162 ppb
Concentration per Run 1	100.107 %	1.478 ppb	1.929 ppb	1.156 ppb	836.667 ppb	0.087 ppb	0.245 ppb	12.445 ppb	17.304 ppb
Concentration per Run 2	107.134 %	1.478 ppb	1.732 ppb	1.039 ppb	743.603 ppb	0.067 ppb	0.181 ppb	10.800 ppb	15.389 ppb
Concentration per Run 3	105.123 %	1.628 ppb	1.761 ppb	1.113 ppb	788.442 ppb	0.085 ppb	0.204 ppb	11.529 ppb	15.794 ppb
Concentration RSD	3.5 %	5.7 %	5.9 %	5.4 %	5.9 %	13.6 %	15.6 %	7.1 %	6.2 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	101.253 %	104.623 %	0.170 ppb	0.138 ppb	380.944 ppb	0.260 ppb	94.395 %	99.437 %	0.002 ppb
Concentration per Run 1	100.612 %	98.735 %	0.149 ppb	0.117 ppb	400.497 ppb	0.227 ppb	98.244 %	93.612 %	0.001 ppb
Concentration per Run 2	102.492 %	109.980 %	0.130 ppb	0.112 ppb	361.959 ppb	0.289 ppb	87.041 %	102.582 %	0.003 ppb
Concentration per Run 3	100.654 %	105.154 %	0.229 ppb	0.185 ppb	380.375 ppb	0.264 ppb	97.900 %	102.116 %	0.002 ppb
Concentration RSD	1.1 %	5.4 %	31.1 %	29.7 %	5.1 %	12.0 %	6.7 %	5.1 %	67.5 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.008 ppb	98.684 %	107.588 %	0.076 ppb	21.799 ppb	100.217 %	103.699 %	97.130 %	108.276 %
Concentration per Run 1	0.008 ppb	101.184 %	101.414 %	0.043 ppb	23.058 ppb	100.343 %	98.420 %	99.390 %	100.600 %
Concentration per Run 2	0.006 ppb	96.157 %	108.795 %	0.091 ppb	21.292 ppb	99.246 %	105.520 %	95.633 %	111.604 %
Concentration per Run 3	0.011 ppb	98.712 %	112.554 %	0.092 ppb	21.048 ppb	101.063 %	107.156 %	96.366 %	112.625 %
Concentration RSD	31.4 %	2.5 %	5.3 %	37.5 %	5.0 %	0.9 %	4.5 %	2.1 %	6.2 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.282 ppb	6.652 ppb	96.308 %	100.010 %
Concentration per Run 1	0.310 ppb	7.253 ppb	96.491 %	92.247 %
Concentration per Run 2	0.284 ppb	6.388 ppb	96.021 %	102.351 %
Concentration per Run 3	0.250 ppb	6.314 ppb	96.412 %	105.431 %
Concentration RSD	10.7 %	7.8 %	0.3 %	6.9 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	47	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2430144-01 6020TL	Rack	1		
Analysis started at:	6/11/2024 5:23:44 PM	Vial	38		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	94.551 %	95.425 %	0.025 ppb	31,085.022 ppb	14,228.922 ppb	9.644 ppb	18,815.922 ppb	109,898.054 ppb	105.614 %
Concentration per Run 1	93.540 %	95.098 %	0.024 ppb	31,638.134 ppb	14,385.866 ppb	10.005 ppb	19,200.658 ppb	113,128.358 ppb	93.175 %
Concentration per Run 2	95.324 %	93.382 %	0.023 ppb	31,201.580 ppb	14,256.619 ppb	12.680 ppb	18,399.591 ppb	108,767.864 ppb	111.609 %
Concentration per Run 3	94.789 %	97.794 %	0.027 ppb	30,415.352 ppb	14,044.281 ppb	6.247 ppb	18,847.517 ppb	107,797.941 ppb	112.057 %
Concentration RSD	1.0 %	2.3 %	8.9 %	2.0 %	1.2 %	33.5 %	2.1 %	2.6 %	10.2 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	104.898 %	0.278 ppb	0.457 ppb	1,111.980 ppb	30,392.634 ppb	1.312 ppb	0.730 ppb	0.890 ppb	14.179 ppb
Concentration per Run 1	100.978 %	0.290 ppb	0.450 ppb	1,168.129 ppb	31,871.788 ppb	1.431 ppb	0.828 ppb	0.847 ppb	14.904 ppb
Concentration per Run 2	106.636 %	0.239 ppb	0.468 ppb	1,091.256 ppb	29,390.975 ppb	1.311 ppb	0.679 ppb	0.829 ppb	13.690 ppb
Concentration per Run 3	107.080 %	0.306 ppb	0.453 ppb	1,076.555 ppb	29,915.138 ppb	1.194 ppb	0.682 ppb	0.995 ppb	13.943 ppb
Concentration RSD	3.2 %	12.5 %	2.1 %	4.4 %	4.3 %	9.0 %	11.7 %	10.2 %	4.5 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	103.955 %	103.720 %	5.547 ppb	0.182 ppb	422.488 ppb	0.107 ppb	89.291 %	93.371 %	0.005 ppb
Concentration per Run 1	100.946 %	99.068 %	5.656 ppb	0.119 ppb	440.860 ppb	0.088 ppb	84.058 %	90.920 %	0.005 ppb
Concentration per Run 2	105.990 %	105.063 %	5.556 ppb	0.179 ppb	413.965 ppb	0.125 ppb	92.860 %	94.425 %	0.005 ppb
Concentration per Run 3	104.929 %	107.028 %	5.428 ppb	0.246 ppb	412.639 ppb	0.107 ppb	90.956 %	94.767 %	0.004 ppb
Concentration RSD	2.6 %	4.0 %	2.1 %	35.0 %	3.8 %	17.5 %	5.2 %	2.3 %	6.9 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.001 ppb	93.120 %	98.646 %	0.051 ppb	98.103 ppb	95.405 %	98.307 %	94.373 %	102.408 %
Concentration per Run 1	0.000 ppb	92.140 %	93.091 %	0.034 ppb	102.006 ppb	92.605 %	93.840 %	91.929 %	96.209 %
Concentration per Run 2	0.002 ppb	94.338 %	99.725 %	0.046 ppb	97.825 ppb	96.349 %	99.454 %	96.385 %	105.661 %
Concentration per Run 3	0.002 ppb	92.881 %	103.123 %	0.072 ppb	94.477 ppb	97.261 %	101.627 %	94.806 %	105.354 %
Concentration RSD	117.5 %	1.2 %	5.2 %	38.2 %	3.8 %	2.6 %	4.1 %	2.4 %	5.2 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.115 ppb	0.045 ppb	88.449 %	91.057 %
Concentration per Run 1	0.119 ppb	0.049 ppb	89.253 %	86.619 %
Concentration per Run 2	0.113 ppb	0.043 ppb	86.734 %	90.616 %
Concentration per Run 3	0.114 ppb	0.044 ppb	89.359 %	95.936 %
Concentration RSD	3.0 %	6.8 %	1.7 %	5.1 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	48	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	6/11/2024 5:30:10 PM	Vial	9		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	97.616 %	97.712 %	60.538 ppb	6,117.443 ppb	6,100.005 ppb	61.512 ppb	6,437.164 ppb	6,292.418 ppb	96.469 %
Concentration per Run 1	98.262 %	90.931 %	60.719 ppb	6,408.049 ppb	6,408.739 ppb	61.868 ppb	6,439.846 ppb	6,316.029 ppb	91.820 %
Concentration per Run 2	97.581 %	99.265 %	59.546 ppb	6,052.999 ppb	5,975.621 ppb	59.060 ppb	6,443.532 ppb	6,202.892 ppb	107.835 %
Concentration per Run 3	97.004 %	102.941 %	61.350 ppb	5,891.281 ppb	5,915.654 ppb	63.608 ppb	6,428.113 ppb	6,358.332 ppb	89.751 %
Recovery Percentage 1			100.897 %	101.957 %	101.667 %	102.520 %	107.286 %	104.874 %	
Concentration RSD	0.6 %	6.3 %	1.5 %	4.3 %	4.4 %	3.7 %	0.1 %	1.3 %	10.3 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	112.589 %	61.996 ppb	60.430 ppb	62.929 ppb	6,192.524 ppb	61.417 ppb	60.567 ppb	59.946 ppb	60.475 ppb
Concentration per Run 1	112.756 %	62.740 ppb	62.406 ppb	63.962 ppb	6,302.735 ppb	61.943 ppb	61.140 ppb	61.341 ppb	61.403 ppb
Concentration per Run 2	113.218 %	60.422 ppb	59.456 ppb	62.892 ppb	6,094.928 ppb	61.103 ppb	61.782 ppb	60.257 ppb	60.007 ppb
Concentration per Run 3	111.795 %	62.826 ppb	59.427 ppb	61.933 ppb	6,179.910 ppb	61.204 ppb	58.779 ppb	58.240 ppb	60.014 ppb
Recovery Percentage 1		103.327 %	100.717 %	104.881 %	103.209 %	102.361 %	100.945 %	99.910 %	100.792 %
Concentration RSD	0.6 %	2.2 %	2.8 %	1.6 %	1.7 %	0.7 %	2.6 %	2.6 %	1.3 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	101.934 %	107.102 %	58.912 ppb	59.644 ppb	65.512 ppb	58.716 ppb	96.346 %	101.267 %	59.180 ppb
Concentration per Run 1	102.732 %	105.097 %	60.998 ppb	62.935 ppb	66.129 ppb	59.938 ppb	96.980 %	99.085 %	62.553 ppb
Concentration per Run 2	101.818 %	105.850 %	58.783 ppb	60.078 ppb	65.968 ppb	59.538 ppb	96.057 %	101.856 %	56.932 ppb
Concentration per Run 3	101.252 %	110.357 %	56.956 ppb	55.921 ppb	64.439 ppb	56.673 ppb	96.000 %	102.861 %	58.056 ppb
Recovery Percentage 1			98.187 %	99.407 %	109.186 %	97.861 %			98.634 %
Concentration RSD	0.7 %	2.7 %	3.4 %	5.9 %	1.4 %	3.0 %	0.6 %	1.9 %	5.0 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	58.855 ppb	97.984 %	108.707 %	55.819 ppb	60.514 ppb	97.459 %	104.446 %	94.758 %	109.292 %
Concentration per Run 1	61.216 ppb	98.107 %	104.068 %	58.085 ppb	63.331 ppb	95.951 %	101.471 %	95.156 %	108.542 %
Concentration per Run 2	58.252 ppb	97.857 %	109.844 %	54.277 ppb	58.277 ppb	99.202 %	106.502 %	94.427 %	110.461 %
Concentration per Run 3	57.098 ppb	97.987 %	112.209 %	55.095 ppb	59.934 ppb	97.223 %	105.364 %	94.691 %	108.873 %
Recovery Percentage 1	98.092 %			93.032 %	100.856 %				
Concentration RSD	3.6 %	0.1 %	3.9 %	3.6 %	4.3 %	1.7 %	2.5 %	0.4 %	0.9 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	61.178 ppb	57.501 ppb	93.831 %	100.157 %
Concentration per Run 1	59.477 ppb	58.366 ppb	95.952 %	98.713 %
Concentration per Run 2	62.062 ppb	57.411 ppb	91.409 %	99.950 %
Concentration per Run 3	61.994 ppb	56.727 ppb	94.131 %	101.808 %
Recovery Percentage 1	101.963 %	95.836 %		
Concentration RSD	2.4 %	1.4 %	2.4 %	1.6 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	49	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/11/2024 5:34:55 PM	Vial	10		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	98.223 %	100.572 %	0.022 ppb	2.189 ppb	0.263 ppb	0.680 ppb	12.800 ppb	-3.445 ppb	97.800 %
Concentration per Run 1	99.153 %	92.402 %	0.024 ppb	6.678 ppb	1.116 ppb	0.635 ppb	11.148 ppb	3.049 ppb	97.150 %
Concentration per Run 2	97.615 %	107.108 %	0.022 ppb	-1.566 ppb	-0.254 ppb	-0.307 ppb	13.572 ppb	2.182 ppb	98.317 %
Concentration per Run 3	97.900 %	102.206 %	0.020 ppb	1.455 ppb	-0.073 ppb	1.710 ppb	13.679 ppb	-15.565 ppb	97.934 %
Recovery Percentage 1			4.434 %	2.189 %	0.375 %	6.796 %	12.800 %	-3.445 %	
Concentration RSD	0.8 %	7.4 %	9.5 %	190.5 %	283.2 %	148.5 %	11.2 %	305.0 %	0.6 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	103.333 %	0.006 ppb	-0.020 ppb	0.171 ppb	5.635 ppb	0.012 ppb	0.064 ppb	0.025 ppb	0.495 ppb
Concentration per Run 1	100.053 %	-0.014 ppb	-0.026 ppb	0.189 ppb	4.034 ppb	0.010 ppb	0.076 ppb	0.043 ppb	0.525 ppb
Concentration per Run 2	103.665 %	0.003 ppb	-0.007 ppb	0.162 ppb	6.107 ppb	0.011 ppb	0.060 ppb	0.017 ppb	0.494 ppb
Concentration per Run 3	106.280 %	0.029 ppb	-0.028 ppb	0.160 ppb	6.764 ppb	0.014 ppb	0.055 ppb	0.014 ppb	0.467 ppb
Recovery Percentage 1		0.121 %	-2.023 %	17.054 %	11.270 %	2.347 %	3.180 %	2.487 %	9.901 %
Concentration RSD	3.0 %	351.4 %	57.0 %	9.6 %	25.3 %	20.2 %	17.1 %	64.4 %	5.9 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	98.041 %	102.800 %	0.032 ppb	0.102 ppb	0.066 ppb	0.195 ppb	99.089 %	101.323 %	0.005 ppb
Concentration per Run 1	98.509 %	97.418 %	0.033 ppb	0.114 ppb	0.063 ppb	0.178 ppb	97.008 %	94.831 %	0.005 ppb
Concentration per Run 2	97.006 %	104.366 %	0.014 ppb	0.047 ppb	0.063 ppb	0.200 ppb	100.964 %	104.445 %	0.005 ppb
Concentration per Run 3	98.607 %	106.616 %	0.048 ppb	0.146 ppb	0.071 ppb	0.208 ppb	99.294 %	104.693 %	0.006 ppb
Recovery Percentage 1			6.300 %	2.042 %	13.139 %	9.761 %			1.330 %
Concentration RSD	0.9 %	4.7 %	53.5 %	49.6 %	6.3 %	7.9 %	2.0 %	5.6 %	13.2 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.004 ppb	97.385 %	105.518 %	0.745 ppb	0.021 ppb	98.275 %	101.505 %	98.226 %	104.039 %
Concentration per Run 1	0.008 ppb	97.062 %	98.716 %	0.670 ppb	0.016 ppb	98.215 %	96.248 %	100.848 %	97.105 %
Concentration per Run 2	0.001 ppb	97.121 %	108.115 %	0.766 ppb	0.039 ppb	97.652 %	104.112 %	96.018 %	106.823 %
Concentration per Run 3	0.005 ppb	97.970 %	109.723 %	0.798 ppb	0.009 ppb	98.958 %	104.154 %	97.812 %	108.189 %
Recovery Percentage 1				18.620 %	4.261 %				
Concentration RSD	80.6 %	0.5 %	5.6 %	9.0 %	73.3 %	0.7 %	4.5 %	2.5 %	5.8 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.152 ppb	0.014 ppb	95.803 %	98.915 %
Concentration per Run 1	0.177 ppb	0.015 ppb	95.367 %	93.309 %
Concentration per Run 2	0.151 ppb	0.015 ppb	94.988 %	102.747 %
Concentration per Run 3	0.128 ppb	0.012 ppb	97.055 %	100.689 %
Recovery Percentage 1	15.219 %	1.417 %		
Concentration RSD	16.0 %	11.2 %	1.1 %	5.0 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	50	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430210-03 6020SL	Rack	1		
Analysis started at:	6/11/2024 5:47:04 PM	Vial	39		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	97.360 %	95.752 %	0.027 ppb	51,141.809 ppb	33,880.933 ppb	408.533 ppb	22,347.243 ppb	88,015.074 ppb	91.218 %
Concentration per Run 1	98.566 %	90.196 %	0.029 ppb	54,466.337 ppb	36,542.866 ppb	426.210 ppb	23,597.398 ppb	92,190.020 ppb	92.988 %
Concentration per Run 2	96.903 %	99.510 %	0.027 ppb	48,971.625 ppb	32,280.974 ppb	396.867 ppb	21,716.788 ppb	84,833.098 ppb	90.577 %
Concentration per Run 3	96.610 %	97.549 %	0.025 ppb	49,987.467 ppb	32,818.960 ppb	402.522 ppb	21,727.545 ppb	87,022.105 ppb	90.088 %
Concentration RSD	1.1 %	5.1 %	7.3 %	5.7 %	6.9 %	3.8 %	4.8 %	4.3 %	1.7 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	109.263 %	1.308 ppb	1.298 ppb	91.497 ppb	728.452 ppb	1.563 ppb	3.426 ppb	2.771 ppb	6.403 ppb
Concentration per Run 1	106.493 %	1.408 ppb	1.367 ppb	97.776 ppb	795.516 ppb	1.701 ppb	3.630 ppb	3.012 ppb	7.043 ppb
Concentration per Run 2	111.670 %	1.164 ppb	1.263 ppb	88.271 ppb	707.501 ppb	1.517 ppb	3.502 ppb	2.526 ppb	6.031 ppb
Concentration per Run 3	109.624 %	1.351 ppb	1.263 ppb	88.444 ppb	682.339 ppb	1.471 ppb	3.146 ppb	2.775 ppb	6.134 ppb
Concentration RSD	2.4 %	9.8 %	4.6 %	5.9 %	8.2 %	7.8 %	7.3 %	8.8 %	8.7 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	106.150 %	104.082 %	0.142 ppb	0.328 ppb	429.193 ppb	0.288 ppb	91.065 %	93.600 %	0.012 ppb
Concentration per Run 1	104.981 %	96.390 %	0.090 ppb	0.477 ppb	459.377 ppb	0.331 ppb	93.758 %	88.565 %	0.015 ppb
Concentration per Run 2	105.942 %	105.856 %	0.211 ppb	0.270 ppb	419.512 ppb	0.246 ppb	88.067 %	96.168 %	0.012 ppb
Concentration per Run 3	107.526 %	110.002 %	0.124 ppb	0.238 ppb	408.692 ppb	0.287 ppb	91.370 %	96.067 %	0.010 ppb
Concentration RSD	1.2 %	6.7 %	44.3 %	39.6 %	6.2 %	14.6 %	3.1 %	4.7 %	23.0 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.025 ppb	93.389 %	101.256 %	0.276 ppb	95.993 ppb	96.418 %	99.382 %	97.048 %	102.527 %
Concentration per Run 1	0.023 ppb	92.460 %	95.128 %	0.285 ppb	103.595 ppb	96.703 %	92.753 %	97.041 %	96.843 %
Concentration per Run 2	0.033 ppb	93.689 %	103.062 %	0.263 ppb	92.433 ppb	96.138 %	102.293 %	94.704 %	104.631 %
Concentration per Run 3	0.018 ppb	94.020 %	105.578 %	0.279 ppb	91.949 ppb	96.414 %	103.100 %	99.398 %	106.105 %
Concentration RSD	30.9 %	0.9 %	5.4 %	4.1 %	6.9 %	0.3 %	5.8 %	2.4 %	4.9 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.080 ppb	0.252 ppb	86.906 %	90.991 %
Concentration per Run 1	0.083 ppb	0.266 ppb	87.314 %	87.554 %
Concentration per Run 2	0.080 ppb	0.252 ppb	88.434 %	91.551 %
Concentration per Run 3	0.078 ppb	0.239 ppb	84.971 %	93.869 %
Concentration RSD	3.4 %	5.5 %	2.0 %	3.5 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	51	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1930656-3d10 6020SL	Rack	1		
Analysis started at:	6/11/2024 5:51:43 PM	Vial	40		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	99.467 %	98.203 %	5.310 ppb	7,001.662 ppb	4,619.846 ppb	263.616 ppb	3,520.166 ppb	10,260.526 ppb	102.537 %
Concentration per Run 1	99.195 %	100.000 %	5.330 ppb	7,255.301 ppb	4,740.238 ppb	254.565 ppb	3,745.646 ppb	10,606.351 ppb	101.108 %
Concentration per Run 2	99.736 %	96.323 %	5.335 ppb	6,917.692 ppb	4,516.744 ppb	279.336 ppb	3,461.742 ppb	9,789.177 ppb	103.158 %
Concentration per Run 3	99.470 %	98.284 %	5.264 ppb	6,831.992 ppb	4,602.555 ppb	256.946 ppb	3,353.111 ppb	10,386.051 ppb	103.344 %
Concentration RSD	0.3 %	1.9 %	0.7 %	3.2 %	2.4 %	5.2 %	5.8 %	4.1 %	1.2 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	104.940 %	55.163 ppb	21.819 ppb	66.634 ppb	181.634 ppb	53.819 ppb	54.848 ppb	27.622 ppb	54.610 ppb
Concentration per Run 1	100.356 %	58.643 ppb	23.201 ppb	70.178 ppb	195.338 ppb	57.833 ppb	58.051 ppb	29.415 ppb	58.207 ppb
Concentration per Run 2	107.098 %	52.662 ppb	21.604 ppb	65.397 ppb	169.803 ppb	52.212 ppb	53.138 ppb	26.807 ppb	53.278 ppb
Concentration per Run 3	107.365 %	54.183 ppb	20.652 ppb	64.325 ppb	179.761 ppb	51.411 ppb	53.353 ppb	26.645 ppb	52.345 ppb
Concentration RSD	3.8 %	5.6 %	5.9 %	4.7 %	7.1 %	6.5 %	5.1 %	5.6 %	5.8 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	102.293 %	103.517 %	12.963 ppb	13.315 ppb	154.770 ppb	104.102 ppb	94.864 %	98.874 %	5.227 ppb
Concentration per Run 1	102.169 %	97.864 %	13.600 ppb	14.507 ppb	164.677 ppb	112.082 ppb	96.179 %	94.018 %	5.533 ppb
Concentration per Run 2	101.659 %	106.043 %	12.510 ppb	13.450 ppb	149.011 ppb	99.081 ppb	94.568 %	101.932 %	5.131 ppb
Concentration per Run 3	103.052 %	106.644 %	12.780 ppb	11.987 ppb	150.623 ppb	101.142 ppb	93.844 %	100.671 %	5.017 ppb
Concentration RSD	0.7 %	4.7 %	4.4 %	9.5 %	5.6 %	6.7 %	1.3 %	4.3 %	5.2 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	5.596 ppb	97.725 %	105.653 %	52.477 ppb	216.094 ppb	97.266 %	101.862 %	96.191 %	103.359 %
Concentration per Run 1	5.893 ppb	99.062 %	102.723 %	55.498 ppb	227.027 ppb	96.138 %	97.202 %	94.324 %	99.391 %
Concentration per Run 2	5.527 ppb	96.667 %	105.600 %	51.693 ppb	213.046 ppb	96.153 %	103.302 %	97.677 %	106.137 %
Concentration per Run 3	5.368 ppb	97.447 %	108.636 %	50.240 ppb	208.209 ppb	99.508 %	105.081 %	96.573 %	104.550 %
Concentration RSD	4.8 %	1.2 %	2.8 %	5.2 %	4.5 %	2.0 %	4.1 %	1.8 %	3.4 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	10.198 ppb	55.928 ppb	91.222 %	94.065 %
Concentration per Run 1	10.042 ppb	59.983 ppb	91.952 %	87.845 %
Concentration per Run 2	10.217 ppb	54.218 ppb	91.535 %	96.005 %
Concentration per Run 3	10.334 ppb	53.582 ppb	90.180 %	98.344 %
Concentration RSD	1.4 %	6.3 %	1.0 %	5.9 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	52	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1930656-4d10 6020SL	Rack	1		
Analysis started at:	6/11/2024 5:56:23 PM	Vial	41		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	98.719 %	97.467 %	5.264 ppb	6,998.180 ppb	4,575.064 ppb	245.723 ppb	3,451.621 ppb	10,399.750 ppb	97.203 %
Concentration per Run 1	99.192 %	86.274 %	5.299 ppb	7,765.508 ppb	5,048.342 ppb	264.419 ppb	3,674.706 ppb	10,998.074 ppb	85.566 %
Concentration per Run 2	98.887 %	100.980 %	5.255 ppb	6,671.343 ppb	4,417.040 ppb	236.277 ppb	3,296.550 ppb	10,220.950 ppb	103.794 %
Concentration per Run 3	98.079 %	105.147 %	5.238 ppb	6,557.688 ppb	4,259.811 ppb	236.473 ppb	3,383.607 ppb	9,980.227 ppb	102.247 %
Concentration RSD	0.6 %	10.2 %	0.6 %	9.5 %	9.1 %	6.6 %	5.7 %	5.1 %	10.4 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	102.052 %	55.326 ppb	21.671 ppb	66.388 ppb	174.617 ppb	54.139 ppb	53.685 ppb	26.584 ppb	53.375 ppb
Concentration per Run 1	99.929 %	58.189 ppb	22.761 ppb	69.496 ppb	179.425 ppb	55.605 ppb	57.475 ppb	27.601 ppb	55.620 ppb
Concentration per Run 2	103.665 %	54.463 ppb	20.893 ppb	64.085 ppb	172.566 ppb	53.091 ppb	51.448 ppb	25.089 ppb	51.532 ppb
Concentration per Run 3	102.562 %	53.326 ppb	21.359 ppb	65.584 ppb	171.860 ppb	53.722 ppb	52.131 ppb	27.063 ppb	52.971 ppb
Concentration RSD	1.9 %	4.6 %	4.5 %	4.2 %	2.4 %	2.4 %	6.1 %	5.0 %	3.9 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	103.070 %	106.107 %	12.489 ppb	11.983 ppb	149.933 ppb	102.790 ppb	93.585 %	97.355 %	5.280 ppb
Concentration per Run 1	103.046 %	103.308 %	13.195 ppb	12.804 ppb	156.502 ppb	109.876 ppb	97.646 %	93.583 %	5.654 ppb
Concentration per Run 2	103.833 %	108.128 %	11.901 ppb	11.393 ppb	145.099 ppb	99.223 ppb	95.832 %	98.681 %	5.091 ppb
Concentration per Run 3	102.330 %	106.885 %	12.370 ppb	11.751 ppb	148.199 ppb	99.271 ppb	87.277 %	99.800 %	5.096 ppb
Concentration RSD	0.7 %	2.4 %	5.2 %	6.1 %	3.9 %	6.0 %	5.9 %	3.4 %	6.1 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	5.516 ppb	98.379 %	106.685 %	52.512 ppb	217.281 ppb	97.348 %	101.806 %	97.494 %	105.993 %
Concentration per Run 1	5.781 ppb	100.063 %	101.395 %	55.917 ppb	233.674 ppb	98.043 %	96.998 %	96.471 %	100.446 %
Concentration per Run 2	5.483 ppb	97.502 %	108.180 %	51.456 ppb	212.766 ppb	97.809 %	103.851 %	98.236 %	106.927 %
Concentration per Run 3	5.285 ppb	97.571 %	110.480 %	50.164 ppb	205.404 ppb	96.192 %	104.568 %	97.774 %	110.607 %
Concentration RSD	4.5 %	1.5 %	4.4 %	5.7 %	6.7 %	1.0 %	4.1 %	0.9 %	4.9 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	10.262 ppb	55.400 ppb	92.618 %	96.239 %
Concentration per Run 1	10.141 ppb	59.990 ppb	92.475 %	89.863 %
Concentration per Run 2	10.022 ppb	54.145 ppb	94.189 %	98.379 %
Concentration per Run 3	10.623 ppb	52.065 ppb	91.190 %	100.476 %
Concentration RSD	3.1 %	7.4 %	1.6 %	5.8 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	53	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1930656-5d10 6020SL	Rack	1		
Analysis started at:	6/11/2024 6:01:04 PM	Vial	42		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	96.920 %	94.118 %	49.134 ppb	10,690.512 ppb	8,526.725 ppb	94.847 ppb	7,501.893 ppb	13,956.803 ppb	104.395 %
Concentration per Run 1	96.911 %	91.176 %	49.118 ppb	11,273.460 ppb	9,022.472 ppb	93.085 ppb	7,914.993 ppb	14,913.910 ppb	104.357 %
Concentration per Run 2	97.134 %	98.039 %	48.916 ppb	10,201.178 ppb	8,144.605 ppb	87.301 ppb	7,217.898 ppb	13,571.381 ppb	102.040 %
Concentration per Run 3	96.713 %	93.137 %	49.369 ppb	10,596.898 ppb	8,413.096 ppb	104.155 ppb	7,372.787 ppb	13,385.119 ppb	106.789 %
Concentration RSD	0.2 %	3.8 %	0.5 %	5.1 %	5.3 %	9.0 %	4.9 %	6.0 %	2.3 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	104.430 %	52.520 ppb	49.608 ppb	61.452 ppb	5,247.078 ppb	50.135 ppb	50.974 ppb	47.951 ppb	51.527 ppb
Concentration per Run 1	100.676 %	55.501 ppb	52.274 ppb	65.159 ppb	5,530.732 ppb	54.758 ppb	54.365 ppb	50.904 ppb	54.498 ppb
Concentration per Run 2	106.493 %	51.727 ppb	48.510 ppb	59.563 ppb	5,130.342 ppb	47.516 ppb	50.307 ppb	46.572 ppb	50.603 ppb
Concentration per Run 3	106.120 %	50.333 ppb	48.039 ppb	59.635 ppb	5,080.160 ppb	48.132 ppb	48.250 ppb	46.376 ppb	49.479 ppb
Concentration RSD	3.1 %	5.1 %	4.7 %	5.2 %	4.7 %	8.0 %	6.1 %	5.3 %	5.1 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	102.601 %	105.815 %	49.100 ppb	48.732 ppb	92.980 ppb	49.945 ppb	96.120 %	97.956 %	1.816 ppb
Concentration per Run 1	102.401 %	98.724 %	52.826 ppb	53.217 ppb	98.768 ppb	54.187 ppb	95.437 %	92.037 %	1.933 ppb
Concentration per Run 2	102.591 %	108.505 %	47.404 ppb	46.092 ppb	91.041 ppb	47.611 ppb	95.977 %	100.470 %	1.732 ppb
Concentration per Run 3	102.810 %	110.218 %	47.070 ppb	46.887 ppb	89.131 ppb	48.038 ppb	96.944 %	101.362 %	1.783 ppb
Concentration RSD	0.2 %	5.9 %	6.6 %	8.0 %	5.5 %	7.4 %	0.8 %	5.3 %	5.7 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	48.684 ppb	98.538 %	103.226 %	50.451 ppb	59.225 ppb	97.338 %	102.069 %	97.101 %	105.540 %
Concentration per Run 1	51.809 ppb	98.107 %	96.992 %	54.275 ppb	62.651 ppb	97.231 %	95.581 %	95.309 %	97.595 %
Concentration per Run 2	47.662 ppb	97.690 %	105.305 %	48.633 ppb	57.492 ppb	96.338 %	105.042 %	98.512 %	110.542 %
Concentration per Run 3	46.581 ppb	99.818 %	107.381 %	48.445 ppb	57.533 ppb	98.446 %	105.584 %	97.482 %	108.484 %
Concentration RSD	5.7 %	1.1 %	5.3 %	6.6 %	5.0 %	1.1 %	5.5 %	1.7 %	6.6 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	48.153 ppb	48.605 ppb	94.675 %	96.155 %
Concentration per Run 1	47.808 ppb	51.147 ppb	93.891 %	91.993 %
Concentration per Run 2	46.175 ppb	47.455 ppb	97.514 %	96.932 %
Concentration per Run 3	50.476 ppb	47.212 ppb	92.620 %	99.540 %
Concentration RSD	4.5 %	4.5 %	2.7 %	4.0 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	54	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1930656-6d5 6020SL	Rack	1		
Analysis started at:	6/11/2024 6:05:45 PM	Vial	43		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	97.350 %	96.732 %	0.023 ppb	11,478.997 ppb	6,846.626 ppb	84.408 ppb	4,547.015 ppb	18,648.526 ppb	97.913 %
Concentration per Run 1	97.731 %	88.480 %	0.023 ppb	12,731.180 ppb	7,656.173 ppb	92.244 ppb	4,956.977 ppb	20,515.115 ppb	88.954 %
Concentration per Run 2	96.657 %	106.373 %	0.024 ppb	10,695.129 ppb	6,287.063 ppb	75.306 ppb	4,299.763 ppb	17,799.784 ppb	100.666 %
Concentration per Run 3	97.664 %	95.343 %	0.023 ppb	11,010.682 ppb	6,596.641 ppb	85.675 ppb	4,384.306 ppb	17,630.678 ppb	104.119 %
Concentration RSD	0.6 %	9.3 %	2.8 %	9.5 %	10.5 %	10.1 %	7.9 %	8.7 %	8.1 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	100.291 %	0.282 ppb	0.289 ppb	18.663 ppb	150.668 ppb	0.339 ppb	0.796 ppb	0.645 ppb	1.404 ppb
Concentration per Run 1	92.066 %	0.332 ppb	0.317 ppb	20.749 ppb	173.731 ppb	0.367 ppb	0.852 ppb	0.695 ppb	1.621 ppb
Concentration per Run 2	102.722 %	0.236 ppb	0.304 ppb	17.804 ppb	132.271 ppb	0.352 ppb	0.697 ppb	0.598 ppb	1.296 ppb
Concentration per Run 3	106.084 %	0.278 ppb	0.247 ppb	17.435 ppb	146.003 ppb	0.297 ppb	0.839 ppb	0.640 ppb	1.294 ppb
Concentration RSD	7.3 %	17.1 %	12.9 %	9.7 %	14.0 %	10.8 %	10.8 %	7.6 %	13.4 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	102.567 %	103.518 %	0.067 ppb	0.147 ppb	82.669 ppb	0.319 ppb	97.900 %	97.355 %	0.004 ppb
Concentration per Run 1	100.985 %	94.703 %	0.075 ppb	0.127 ppb	90.509 ppb	0.342 ppb	97.692 %	89.888 %	0.004 ppb
Concentration per Run 2	104.167 %	109.192 %	0.090 ppb	0.240 ppb	78.549 ppb	0.315 ppb	97.708 %	99.586 %	0.006 ppb
Concentration per Run 3	102.548 %	106.659 %	0.036 ppb	0.073 ppb	78.951 ppb	0.301 ppb	98.301 %	102.592 %	0.004 ppb
Concentration RSD	1.6 %	7.5 %	42.0 %	58.4 %	8.2 %	6.5 %	0.4 %	6.8 %	21.6 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.015 ppb	97.243 %	103.111 %	0.129 ppb	19.096 ppb	99.528 %	101.067 %	98.723 %	105.690 %
Concentration per Run 1	0.012 ppb	96.262 %	93.944 %	0.112 ppb	21.063 ppb	98.304 %	93.253 %	96.113 %	98.181 %
Concentration per Run 2	0.022 ppb	98.415 %	105.552 %	0.128 ppb	18.134 ppb	98.944 %	104.314 %	99.074 %	109.442 %
Concentration per Run 3	0.011 ppb	97.053 %	109.836 %	0.146 ppb	18.090 ppb	101.337 %	105.634 %	100.981 %	109.446 %
Concentration RSD	42.0 %	1.1 %	8.0 %	13.1 %	8.9 %	1.6 %	6.7 %	2.5 %	6.2 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.310 ppb	0.073 ppb	93.268 %	95.095 %
Concentration per Run 1	0.338 ppb	0.075 ppb	94.557 %	87.622 %
Concentration per Run 2	0.305 ppb	0.076 ppb	91.478 %	99.022 %
Concentration per Run 3	0.285 ppb	0.068 ppb	93.768 %	98.640 %
Concentration RSD	8.6 %	6.0 %	1.7 %	6.8 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	55	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430219-04 6020SL	Rack	1		
Analysis started at:	6/11/2024 6:10:26 PM	Vial	44		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	97.053 %	96.814 %	0.016 ppb	51,594.334 ppb	13,663.059 ppb	2.575 ppb	1,424.259 ppb	23,672.790 ppb	107.807 %
Concentration per Run 1	97.056 %	93.627 %	0.017 ppb	53,489.976 ppb	13,965.950 ppb	2.823 ppb	1,482.709 ppb	24,713.826 ppb	106.013 %
Concentration per Run 2	96.545 %	98.284 %	0.017 ppb	50,891.098 ppb	13,615.326 ppb	2.280 ppb	1,418.588 ppb	23,437.693 ppb	110.080 %
Concentration per Run 3	97.557 %	98.529 %	0.016 ppb	50,401.929 ppb	13,407.902 ppb	2.622 ppb	1,371.481 ppb	22,866.850 ppb	107.327 %
Concentration RSD	0.5 %	2.9 %	4.0 %	3.2 %	2.1 %	10.7 %	3.9 %	4.0 %	1.9 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	100.789 %	0.105 ppb	1.453 ppb	0.904 ppb	10.712 ppb	0.041 ppb	0.861 ppb	0.167 ppb	0.622 ppb
Concentration per Run 1	98.435 %	0.112 ppb	1.477 ppb	0.904 ppb	12.142 ppb	0.053 ppb	0.951 ppb	0.194 ppb	0.640 ppb
Concentration per Run 2	100.071 %	0.122 ppb	1.516 ppb	0.890 ppb	11.607 ppb	0.033 ppb	0.858 ppb	0.178 ppb	0.579 ppb
Concentration per Run 3	103.860 %	0.083 ppb	1.366 ppb	0.917 ppb	8.388 ppb	0.035 ppb	0.774 ppb	0.128 ppb	0.648 ppb
Concentration RSD	2.8 %	19.4 %	5.4 %	1.5 %	19.0 %	26.6 %	10.3 %	20.6 %	6.1 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	107.041 %	102.238 %	0.048 ppb	0.291 ppb	112.269 ppb	0.164 ppb	93.907 %	95.212 %	0.002 ppb
Concentration per Run 1	106.016 %	98.077 %	-0.064 ppb	0.442 ppb	117.442 ppb	0.154 ppb	93.351 %	90.012 %	0.001 ppb
Concentration per Run 2	107.272 %	104.431 %	0.093 ppb	0.287 ppb	108.687 ppb	0.165 ppb	95.647 %	97.706 %	0.001 ppb
Concentration per Run 3	107.834 %	104.205 %	0.116 ppb	0.144 ppb	110.679 ppb	0.172 ppb	92.723 %	97.919 %	0.002 ppb
Concentration RSD	0.9 %	3.5 %	203.6 %	51.2 %	4.1 %	5.7 %	1.6 %	4.7 %	23.0 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.013 ppb	96.289 %	100.045 %	0.219 ppb	64.411 ppb	97.913 %	101.138 %	97.714 %	104.596 %
Concentration per Run 1	0.018 ppb	95.850 %	93.990 %	0.208 ppb	69.089 ppb	97.153 %	95.882 %	97.250 %	99.704 %
Concentration per Run 2	0.013 ppb	97.544 %	103.090 %	0.215 ppb	62.532 ppb	97.635 %	103.037 %	99.070 %	105.090 %
Concentration per Run 3	0.007 ppb	95.473 %	103.055 %	0.235 ppb	61.613 ppb	98.951 %	104.495 %	96.820 %	108.995 %
Concentration RSD	41.1 %	1.1 %	5.2 %	6.3 %	6.3 %	1.0 %	4.6 %	1.2 %	4.5 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.134 ppb	0.020 ppb	92.256 %	93.914 %
Concentration per Run 1	0.138 ppb	0.024 ppb	91.631 %	88.634 %
Concentration per Run 2	0.136 ppb	0.020 ppb	93.281 %	95.399 %
Concentration per Run 3	0.128 ppb	0.017 ppb	91.855 %	97.709 %
Concentration RSD	4.2 %	17.6 %	1.0 %	5.0 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	56	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1930656-7d10 6020SL	Rack	1		
Analysis started at:	6/11/2024 6:15:07 PM	Vial	45		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	99.290 %	101.716 %	5.330 ppb	7,078.820 ppb	2,494.010 ppb	226.805 ppb	1,351.882 ppb	3,741.251 ppb	102.181 %
Concentration per Run 1	99.549 %	94.853 %	5.373 ppb	7,617.314 ppb	2,651.703 ppb	253.464 ppb	1,437.173 ppb	4,122.101 ppb	104.427 %
Concentration per Run 2	99.579 %	103.431 %	5.245 ppb	6,861.938 ppb	2,420.715 ppb	221.667 ppb	1,306.979 ppb	3,484.555 ppb	102.210 %
Concentration per Run 3	98.743 %	106.863 %	5.374 ppb	6,757.209 ppb	2,409.613 ppb	205.286 ppb	1,311.494 ppb	3,617.096 ppb	99.908 %
Concentration RSD	0.5 %	6.1 %	1.4 %	6.6 %	5.5 %	10.8 %	5.5 %	9.0 %	2.2 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	101.815 %	56.065 ppb	22.120 ppb	57.208 ppb	116.372 ppb	54.235 ppb	54.297 ppb	26.617 ppb	55.066 ppb
Concentration per Run 1	96.994 %	59.685 ppb	23.663 ppb	60.826 ppb	121.057 ppb	58.342 ppb	57.418 ppb	28.620 ppb	58.293 ppb
Concentration per Run 2	103.184 %	54.258 ppb	21.402 ppb	55.753 ppb	113.469 ppb	51.827 ppb	52.229 ppb	26.286 ppb	53.879 ppb
Concentration per Run 3	105.266 %	54.250 ppb	21.294 ppb	55.044 ppb	114.591 ppb	52.537 ppb	53.243 ppb	24.946 ppb	53.025 ppb
Concentration RSD	4.2 %	5.6 %	6.0 %	5.5 %	3.5 %	6.6 %	5.1 %	7.0 %	5.1 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	103.386 %	106.575 %	12.865 ppb	12.861 ppb	118.747 ppb	103.301 ppb	98.642 %	99.533 %	5.229 ppb
Concentration per Run 1	106.012 %	101.485 %	13.806 ppb	14.165 ppb	124.784 ppb	110.510 ppb	99.834 %	93.519 %	5.606 ppb
Concentration per Run 2	101.265 %	109.918 %	12.404 ppb	12.636 ppb	116.261 ppb	102.433 ppb	98.628 %	100.832 %	5.082 ppb
Concentration per Run 3	102.882 %	108.322 %	12.385 ppb	11.781 ppb	115.196 ppb	96.959 ppb	97.463 %	104.250 %	4.998 ppb
Concentration RSD	2.3 %	4.2 %	6.3 %	9.4 %	4.4 %	6.6 %	1.2 %	5.5 %	6.3 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	5.618 ppb	99.295 %	108.300 %	50.066 ppb	212.807 ppb	98.877 %	103.273 %	98.195 %	106.434 %
Concentration per Run 1	5.996 ppb	101.115 %	102.566 %	53.367 ppb	229.806 ppb	97.251 %	95.704 %	97.527 %	100.478 %
Concentration per Run 2	5.446 ppb	98.240 %	109.730 %	49.501 ppb	206.994 ppb	101.240 %	106.168 %	98.014 %	109.613 %
Concentration per Run 3	5.413 ppb	98.530 %	112.605 %	47.332 ppb	201.621 ppb	98.140 %	107.946 %	99.044 %	109.211 %
Concentration RSD	5.8 %	1.6 %	4.8 %	6.1 %	7.0 %	2.1 %	6.4 %	0.8 %	4.8 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	10.363 ppb	55.418 ppb	94.932 %	98.390 %
Concentration per Run 1	9.989 ppb	59.330 ppb	95.390 %	93.520 %
Concentration per Run 2	10.382 ppb	53.736 ppb	96.165 %	101.238 %
Concentration per Run 3	10.718 ppb	53.188 ppb	93.240 %	100.413 %
Concentration RSD	3.5 %	6.1 %	1.6 %	4.3 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	57	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1930656-8d10 6020SL	Rack	1		
Analysis started at:	6/11/2024 6:19:49 PM	Vial	46		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	98.319 %	97.141 %	5.312 ppb	7,178.311 ppb	2,589.143 ppb	216.472 ppb	1,334.566 ppb	3,446.521 ppb	102.061 %
Concentration per Run 1	98.548 %	94.853 %	5.430 ppb	7,456.082 ppb	2,717.333 ppb	220.194 ppb	1,402.793 ppb	3,582.689 ppb	99.762 %
Concentration per Run 2	98.560 %	94.363 %	5.220 ppb	7,132.246 ppb	2,592.844 ppb	202.468 ppb	1,303.562 ppb	3,415.905 ppb	101.505 %
Concentration per Run 3	97.849 %	102.206 %	5.285 ppb	6,946.606 ppb	2,457.252 ppb	226.754 ppb	1,297.344 ppb	3,340.969 ppb	104.916 %
Concentration RSD	0.4 %	4.5 %	2.0 %	3.6 %	5.0 %	5.8 %	4.4 %	3.6 %	2.6 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	100.913 %	56.300 ppb	22.288 ppb	57.830 ppb	121.401 ppb	54.238 ppb	55.125 ppb	27.385 ppb	54.651 ppb
Concentration per Run 1	97.012 %	59.594 ppb	23.674 ppb	60.811 ppb	127.177 ppb	57.300 ppb	59.598 ppb	29.342 ppb	58.820 ppb
Concentration per Run 2	103.380 %	54.511 ppb	21.720 ppb	55.325 ppb	115.214 ppb	53.157 ppb	53.093 ppb	26.807 ppb	52.038 ppb
Concentration per Run 3	102.348 %	54.795 ppb	21.469 ppb	57.353 ppb	121.813 ppb	52.257 ppb	52.683 ppb	26.006 ppb	53.095 ppb
Concentration RSD	3.4 %	5.1 %	5.4 %	4.8 %	4.9 %	5.0 %	7.0 %	6.4 %	6.7 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	101.058 %	102.703 %	13.016 ppb	12.742 ppb	121.130 ppb	104.270 ppb	96.851 %	99.564 %	5.157 ppb
Concentration per Run 1	100.996 %	95.866 %	13.829 ppb	13.740 ppb	127.316 ppb	107.064 ppb	99.591 %	96.055 %	5.417 ppb
Concentration per Run 2	101.962 %	108.288 %	12.744 ppb	11.974 ppb	115.730 ppb	103.862 ppb	95.024 %	101.232 %	4.971 ppb
Concentration per Run 3	100.217 %	103.955 %	12.476 ppb	12.511 ppb	120.346 ppb	101.884 ppb	95.939 %	101.405 %	5.084 ppb
Concentration RSD	0.9 %	6.1 %	5.5 %	7.1 %	4.8 %	2.5 %	2.5 %	3.1 %	4.5 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	5.602 ppb	98.827 %	106.901 %	51.049 ppb	213.594 ppb	97.189 %	102.123 %	97.838 %	103.638 %
Concentration per Run 1	5.989 ppb	97.773 %	99.732 %	55.204 ppb	223.494 ppb	97.434 %	96.356 %	96.697 %	96.370 %
Concentration per Run 2	5.464 ppb	100.332 %	110.229 %	48.195 ppb	208.905 ppb	97.346 %	106.454 %	97.033 %	105.861 %
Concentration per Run 3	5.353 ppb	98.375 %	110.740 %	49.748 ppb	208.383 ppb	96.786 %	103.559 %	99.785 %	108.685 %
Concentration RSD	6.1 %	1.4 %	5.8 %	7.2 %	4.0 %	0.4 %	5.1 %	1.7 %	6.2 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	10.021 ppb	56.333 ppb	95.823 %	95.811 %
Concentration per Run 1	9.678 ppb	60.972 ppb	97.906 %	90.473 %
Concentration per Run 2	10.014 ppb	54.519 ppb	94.644 %	97.712 %
Concentration per Run 3	10.372 ppb	53.509 ppb	94.919 %	99.246 %
Concentration RSD	3.5 %	7.2 %	1.9 %	4.9 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	58	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1930656-9d10 6020SL	Rack	1		
Analysis started at:	6/11/2024 6:24:31 PM	Vial	47		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	96.716 %	94.689 %	50.682 ppb	11,045.007 ppb	6,671.830 ppb	58.348 ppb	5,610.622 ppb	7,613.071 ppb	96.571 %
Concentration per Run 1	96.273 %	94.363 %	51.256 ppb	11,538.676 ppb	6,964.233 ppb	57.691 ppb	5,835.008 ppb	7,874.366 ppb	87.462 %
Concentration per Run 2	97.162 %	92.402 %	50.331 ppb	11,085.860 ppb	6,652.191 ppb	64.150 ppb	5,595.834 ppb	7,609.911 ppb	103.269 %
Concentration per Run 3	96.713 %	97.304 %	50.459 ppb	10,510.486 ppb	6,399.065 ppb	53.202 ppb	5,401.023 ppb	7,354.936 ppb	98.983 %
Concentration RSD	0.5 %	2.6 %	1.0 %	4.7 %	4.2 %	9.4 %	3.9 %	3.4 %	8.5 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	101.322 %	53.185 ppb	51.585 ppb	54.039 ppb	5,354.537 ppb	51.939 ppb	51.613 ppb	50.280 ppb	51.902 ppb
Concentration per Run 1	96.834 %	56.969 ppb	54.693 ppb	57.108 ppb	5,692.714 ppb	56.189 ppb	55.666 ppb	53.775 ppb	55.418 ppb
Concentration per Run 2	102.437 %	52.072 ppb	50.871 ppb	53.022 ppb	5,216.984 ppb	49.293 ppb	50.114 ppb	48.766 ppb	50.200 ppb
Concentration per Run 3	104.697 %	50.515 ppb	49.191 ppb	51.986 ppb	5,153.911 ppb	50.336 ppb	49.060 ppb	48.299 ppb	50.087 ppb
Concentration RSD	4.0 %	6.3 %	5.5 %	5.0 %	5.5 %	7.2 %	6.9 %	6.0 %	5.9 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	101.440 %	102.853 %	50.597 ppb	50.383 ppb	65.472 ppb	51.265 ppb	96.894 %	96.376 %	1.837 ppb
Concentration per Run 1	101.278 %	97.661 %	54.200 ppb	52.967 ppb	69.768 ppb	55.655 ppb	97.458 %	91.035 %	1.989 ppb
Concentration per Run 2	102.499 %	105.749 %	48.622 ppb	48.240 ppb	62.687 ppb	49.592 ppb	98.146 %	99.324 %	1.761 ppb
Concentration per Run 3	100.544 %	105.148 %	48.970 ppb	49.943 ppb	63.961 ppb	48.546 ppb	95.079 %	98.769 %	1.762 ppb
Concentration RSD	1.0 %	4.4 %	6.2 %	4.8 %	5.8 %	7.5 %	1.7 %	4.8 %	7.2 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	49.808 ppb	98.252 %	103.177 %	50.906 ppb	56.377 ppb	97.762 %	99.501 %	97.170 %	103.215 %
Concentration per Run 1	54.040 ppb	98.882 %	96.848 %	54.896 ppb	60.227 ppb	97.797 %	94.222 %	96.811 %	97.105 %
Concentration per Run 2	47.707 ppb	97.563 %	107.180 %	48.714 ppb	54.314 ppb	97.620 %	103.398 %	96.974 %	105.949 %
Concentration per Run 3	47.677 ppb	98.312 %	105.503 %	49.108 ppb	54.590 ppb	97.870 %	100.881 %	97.723 %	106.593 %
Concentration RSD	7.4 %	0.7 %	5.4 %	6.8 %	5.9 %	0.1 %	4.8 %	0.5 %	5.1 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	48.949 ppb	49.637 ppb	94.048 %	95.542 %
Concentration per Run 1	49.313 ppb	52.022 ppb	93.538 %	90.758 %
Concentration per Run 2	48.281 ppb	50.110 ppb	94.564 %	95.411 %
Concentration per Run 3	49.254 ppb	46.778 ppb	94.041 %	100.456 %
Concentration RSD	1.2 %	5.3 %	0.5 %	5.1 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	59	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1930656-10d5 6020SL	Rack	1		
Analysis started at:	6/11/2024 6:29:14 PM	Vial	48		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	98.450 %	98.121 %	0.024 ppb	11,861.198 ppb	2,836.255 ppb	0.876 ppb	297.949 ppb	4,927.816 ppb	102.215 %
Concentration per Run 1	98.438 %	96.569 %	0.026 ppb	12,386.800 ppb	2,983.245 ppb	1.101 ppb	316.569 ppb	5,346.767 ppb	102.957 %
Concentration per Run 2	98.966 %	99.265 %	0.022 ppb	11,596.869 ppb	2,743.027 ppb	0.972 ppb	288.880 ppb	4,816.912 ppb	103.624 %
Concentration per Run 3	97.945 %	98.529 %	0.023 ppb	11,599.927 ppb	2,782.495 ppb	0.554 ppb	288.398 ppb	4,619.769 ppb	100.064 %
Concentration RSD	0.5 %	1.4 %	9.4 %	3.8 %	4.5 %	32.7 %	5.4 %	7.6 %	1.9 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	100.048 %	0.047 ppb	0.296 ppb	0.268 ppb	5.824 ppb	0.019 ppb	0.187 ppb	0.047 ppb	0.349 ppb
Concentration per Run 1	93.952 %	0.054 ppb	0.300 ppb	0.315 ppb	5.445 ppb	0.016 ppb	0.211 ppb	0.043 ppb	0.405 ppb
Concentration per Run 2	102.633 %	0.044 ppb	0.308 ppb	0.245 ppb	6.471 ppb	0.019 ppb	0.204 ppb	0.050 ppb	0.394 ppb
Concentration per Run 3	103.558 %	0.043 ppb	0.280 ppb	0.245 ppb	5.555 ppb	0.022 ppb	0.146 ppb	0.048 ppb	0.249 ppb
Concentration RSD	5.3 %	13.6 %	4.9 %	15.0 %	9.7 %	16.0 %	19.1 %	7.8 %	25.0 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	102.801 %	101.705 %	0.069 ppb	0.159 ppb	22.811 ppb	0.266 ppb	97.108 %	97.536 %	0.000 ppb
Concentration per Run 1	104.584 %	96.369 %	0.088 ppb	0.081 ppb	24.091 ppb	0.245 ppb	96.296 %	93.118 %	0.001 ppb
Concentration per Run 2	100.878 %	102.935 %	0.049 ppb	0.185 ppb	22.643 ppb	0.243 ppb	98.129 %	100.409 %	0.000 ppb
Concentration per Run 3	102.942 %	105.813 %	0.071 ppb	0.210 ppb	21.698 ppb	0.310 ppb	96.898 %	99.082 %	0.001 ppb
Concentration RSD	1.8 %	4.8 %	28.1 %	43.1 %	5.3 %	14.3 %	1.0 %	4.0 %	177.6 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.004 ppb	99.696 %	101.823 %	0.265 ppb	13.417 ppb	98.097 %	101.352 %	97.276 %	102.718 %
Concentration per Run 1	0.004 ppb	99.293 %	95.599 %	0.213 ppb	14.690 ppb	97.779 %	94.573 %	97.335 %	97.570 %
Concentration per Run 2	0.002 ppb	99.534 %	104.992 %	0.282 ppb	12.414 ppb	99.881 %	104.920 %	96.914 %	104.907 %
Concentration per Run 3	0.005 ppb	100.260 %	104.878 %	0.300 ppb	13.145 ppb	96.631 %	104.563 %	97.579 %	105.677 %
Concentration RSD	46.4 %	0.5 %	5.3 %	17.4 %	8.7 %	1.7 %	5.8 %	0.3 %	4.4 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.292 ppb	0.015 ppb	95.801 %	95.841 %
Concentration per Run 1	0.307 ppb	0.019 ppb	96.904 %	88.310 %
Concentration per Run 2	0.301 ppb	0.015 ppb	96.237 %	98.417 %
Concentration per Run 3	0.268 ppb	0.013 ppb	94.263 %	100.796 %
Concentration RSD	7.2 %	19.8 %	1.4 %	6.9 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	60	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	6/11/2024 6:33:57 PM	Vial	9		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	97.132 %	97.222 %	60.765 ppb	6,123.675 ppb	6,110.202 ppb	65.325 ppb	6,391.079 ppb	6,278.801 ppb	102.615 %
Concentration per Run 1	97.708 %	87.500 %	60.882 ppb	6,647.823 ppb	6,644.381 ppb	73.913 ppb	6,602.868 ppb	6,588.530 ppb	100.651 %
Concentration per Run 2	96.763 %	96.078 %	60.999 ppb	6,139.372 ppb	6,020.893 ppb	59.675 ppb	6,285.647 ppb	6,225.570 ppb	102.508 %
Concentration per Run 3	96.925 %	108.088 %	60.414 ppb	5,583.830 ppb	5,665.331 ppb	62.387 ppb	6,284.723 ppb	6,022.304 ppb	104.686 %
Recovery Percentage 1			101.275 %	102.061 %	101.837 %	108.875 %	106.518 %	104.647 %	
Concentration RSD	0.5 %	10.6 %	0.5 %	8.7 %	8.1 %	11.6 %	2.9 %	4.6 %	2.0 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	106.286 %	61.535 ppb	60.851 ppb	62.943 ppb	6,255.815 ppb	61.605 ppb	61.219 ppb	61.302 ppb	61.583 ppb
Concentration per Run 1	103.789 %	62.805 ppb	62.467 ppb	64.954 ppb	6,595.918 ppb	66.314 ppb	63.693 ppb	62.775 ppb	64.041 ppb
Concentration per Run 2	107.525 %	62.067 ppb	61.197 ppb	62.931 ppb	6,032.148 ppb	59.818 ppb	60.082 ppb	61.925 ppb	61.449 ppb
Concentration per Run 3	107.543 %	59.734 ppb	58.890 ppb	60.945 ppb	6,139.380 ppb	58.684 ppb	59.882 ppb	59.206 ppb	59.260 ppb
Recovery Percentage 1		102.558 %	101.419 %	104.906 %	104.264 %	102.676 %	102.032 %	102.170 %	102.639 %
Concentration RSD	2.0 %	2.6 %	3.0 %	3.2 %	4.8 %	6.7 %	3.5 %	3.0 %	3.9 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	102.344 %	103.553 %	60.521 ppb	59.715 ppb	63.515 ppb	59.245 ppb	96.785 %	99.337 %	60.008 ppb
Concentration per Run 1	103.041 %	100.454 %	61.862 ppb	63.850 ppb	64.552 ppb	62.879 ppb	96.783 %	95.904 %	61.874 ppb
Concentration per Run 2	101.747 %	102.516 %	61.337 ppb	59.458 ppb	64.085 ppb	58.254 ppb	96.657 %	100.001 %	59.339 ppb
Concentration per Run 3	102.246 %	107.690 %	58.364 ppb	55.837 ppb	61.906 ppb	56.604 ppb	96.916 %	102.107 %	58.811 ppb
Recovery Percentage 1			100.868 %	99.525 %	105.858 %	98.742 %			100.013 %
Concentration RSD	0.6 %	3.6 %	3.1 %	6.7 %	2.2 %	5.5 %	0.1 %	3.2 %	2.7 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	59.812 ppb	98.013 %	104.176 %	57.069 ppb	60.656 ppb	97.623 %	102.729 %	97.415 %	105.554 %
Concentration per Run 1	61.593 ppb	97.529 %	99.807 %	60.126 ppb	62.492 ppb	96.444 %	99.130 %	98.160 %	102.470 %
Concentration per Run 2	59.107 ppb	98.432 %	104.703 %	56.348 ppb	59.638 ppb	96.708 %	102.452 %	97.374 %	106.363 %
Concentration per Run 3	58.735 ppb	98.077 %	108.019 %	54.732 ppb	59.838 ppb	99.717 %	106.604 %	96.710 %	107.828 %
Recovery Percentage 1	99.687 %			95.114 %	101.094 %				
Concentration RSD	2.6 %	0.5 %	4.0 %	4.9 %	2.6 %	1.9 %	3.6 %	0.7 %	2.6 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	61.119 ppb	58.115 ppb	93.844 %	98.076 %
Concentration per Run 1	61.604 ppb	60.275 ppb	93.506 %	94.412 %
Concentration per Run 2	59.722 ppb	57.093 ppb	95.848 %	98.395 %
Concentration per Run 3	62.031 ppb	56.976 ppb	92.177 %	101.421 %
Recovery Percentage 1	101.865 %	96.858 %		
Concentration RSD	2.0 %	3.2 %	2.0 %	3.6 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index: 61 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: CCB Rack 0
Analysis started at: 6/11/2024 6:38:42 PM Vial 10

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	98.803 %	98.529 %	0.028 ppb	1.539 ppb	1.477 ppb	1.156 ppb	8.228 ppb	-1.413 ppb	101.436 %
Concentration per Run 1	99.371 %	92.157 %	0.032 ppb	5.454 ppb	2.967 ppb	0.670 ppb	8.196 ppb	-7.250 ppb	99.165 %
Concentration per Run 2	100.020 %	98.039 %	0.021 ppb	0.798 ppb	0.717 ppb	1.472 ppb	8.753 ppb	3.731 ppb	103.573 %
Concentration per Run 3	97.019 %	105.392 %	0.031 ppb	-1.635 ppb	0.747 ppb	1.325 ppb	7.736 ppb	-0.720 ppb	101.568 %
Recovery Percentage 1			5.552 %	1.539 %	2.110 %	11.556 %	8.228 %	-1.413 %	
Concentration RSD	1.6 %	6.7 %	22.0 %	234.1 %	87.4 %	36.9 %	6.2 %	390.9 %	2.2 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	98.838 %	0.017 ppb	-0.017 ppb	0.164 ppb	3.720 ppb	0.011 ppb	0.076 ppb	0.026 ppb	0.515 ppb
Concentration per Run 1	96.727 %	0.034 ppb	-0.013 ppb	0.180 ppb	2.982 ppb	0.015 ppb	0.103 ppb	0.026 ppb	0.601 ppb
Concentration per Run 2	97.563 %	0.000 ppb	-0.013 ppb	0.158 ppb	4.246 ppb	0.004 ppb	0.052 ppb	0.034 ppb	0.482 ppb
Concentration per Run 3	102.224 %	0.017 ppb	-0.025 ppb	0.154 ppb	3.933 ppb	0.016 ppb	0.074 ppb	0.019 ppb	0.463 ppb
Recovery Percentage 1		0.339 %	-1.681 %	16.378 %	7.441 %	2.273 %	3.810 %	2.644 %	10.305 %
Concentration RSD	3.0 %	99.2 %	41.0 %	8.6 %	17.7 %	59.6 %	33.6 %	27.5 %	14.5 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	99.357 %	101.987 %	0.049 ppb	0.078 ppb	0.027 ppb	0.249 ppb	100.762 %	100.720 %	0.009 ppb
Concentration per Run 1	100.820 %	96.229 %	0.085 ppb	0.043 ppb	0.025 ppb	0.196 ppb	101.642 %	96.551 %	0.011 ppb
Concentration per Run 2	97.157 %	102.758 %	-0.033 ppb	0.145 ppb	0.036 ppb	0.221 ppb	99.967 %	102.395 %	0.007 ppb
Concentration per Run 3	100.092 %	106.975 %	0.094 ppb	0.045 ppb	0.021 ppb	0.329 ppb	100.678 %	103.214 %	0.008 ppb
Recovery Percentage 1			9.762 %	1.554 %	5.426 %	12.425 %			2.136 %
Concentration RSD	2.0 %	5.3 %	144.8 %	75.1 %	29.2 %	28.5 %	0.8 %	3.6 %	21.8 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.005 ppb	99.164 %	103.628 %	0.794 ppb	0.046 ppb	101.256 %	100.804 %	100.236 %	101.493 %
Concentration per Run 1	0.009 ppb	100.096 %	96.843 %	0.728 ppb	0.055 ppb	101.468 %	97.299 %	98.942 %	97.303 %
Concentration per Run 2	0.002 ppb	97.910 %	105.910 %	0.832 ppb	0.030 ppb	102.084 %	100.799 %	101.109 %	103.128 %
Concentration per Run 3	0.005 ppb	99.486 %	108.130 %	0.822 ppb	0.054 ppb	100.217 %	104.314 %	100.657 %	104.047 %
Recovery Percentage 1				19.846 %	9.229 %				
Concentration RSD	69.2 %	1.1 %	5.8 %	7.2 %	30.3 %	0.9 %	3.5 %	1.1 %	3.6 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.191 ppb	0.014 ppb	97.447 %	100.251 %
Concentration per Run 1	0.204 ppb	0.014 ppb	96.992 %	96.214 %
Concentration per Run 2	0.188 ppb	0.014 ppb	97.209 %	101.007 %
Concentration per Run 3	0.182 ppb	0.013 ppb	98.139 %	103.531 %
Recovery Percentage 1	19.127 %	1.376 %		
Concentration RSD	6.1 %	4.0 %	0.6 %	3.7 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	62	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430210-01 6020SL	Rack	1		
Analysis started at:	6/11/2024 6:44:34 PM	Vial	49		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	101.947 %	105.964 %	0.024 ppb	93,797.531 ppb	32,641.098 ppb	11.688 ppb	57,087.917 ppb	142,762.351 ppb	103.747 %
Concentration per Run 1	102.828 %	104.412 %	0.027 ppb	95,184.846 ppb	33,138.458 ppb	14.173 ppb	56,359.006 ppb	142,621.733 ppb	92.346 %
Concentration per Run 2	102.554 %	102.451 %	0.026 ppb	95,207.206 ppb	32,933.914 ppb	10.562 ppb	57,786.502 ppb	140,948.614 ppb	110.476 %
Concentration per Run 3	100.458 %	111.030 %	0.020 ppb	91,000.542 ppb	31,850.923 ppb	10.328 ppb	57,118.244 ppb	144,716.706 ppb	108.418 %
Concentration RSD	1.3 %	4.2 %	14.3 %	2.6 %	2.1 %	18.4 %	1.3 %	1.3 %	9.6 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	104.358 %	1.663 ppb	1.792 ppb	3,920.434 ppb	28,008.168 ppb	3.390 ppb	6.131 ppb	0.246 ppb	2.279 ppb
Concentration per Run 1	104.447 %	1.620 ppb	1.835 ppb	4,001.124 ppb	28,533.641 ppb	3.580 ppb	6.329 ppb	0.237 ppb	2.465 ppb
Concentration per Run 2	106.013 %	1.687 ppb	1.827 ppb	3,831.431 ppb	27,571.744 ppb	3.280 ppb	5.693 ppb	0.250 ppb	2.211 ppb
Concentration per Run 3	102.615 %	1.683 ppb	1.713 ppb	3,928.747 ppb	27,919.119 ppb	3.310 ppb	6.371 ppb	0.250 ppb	2.160 ppb
Concentration RSD	1.6 %	2.3 %	3.8 %	2.2 %	1.7 %	4.9 %	6.2 %	3.1 %	7.2 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	105.402 %	102.396 %	1.210 ppb	0.479 ppb	605.615 ppb	1.835 ppb	88.345 %	91.999 %	0.002 ppb
Concentration per Run 1	103.147 %	98.345 %	1.329 ppb	0.439 ppb	624.105 ppb	1.862 ppb	90.738 %	88.583 %	0.001 ppb
Concentration per Run 2	106.707 %	102.544 %	1.113 ppb	0.383 ppb	590.189 ppb	1.847 ppb	89.754 %	94.066 %	0.004 ppb
Concentration per Run 3	106.352 %	106.299 %	1.188 ppb	0.613 ppb	602.550 ppb	1.797 ppb	84.543 %	93.348 %	0.000 ppb
Concentration RSD	1.9 %	3.9 %	9.1 %	25.0 %	2.8 %	1.8 %	3.8 %	3.2 %	125.2 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.005 ppb	88.704 %	97.959 %	0.443 ppb	209.593 ppb	93.531 %	97.441 %	91.599 %	102.005 %
Concentration per Run 1	0.004 ppb	87.885 %	94.595 %	0.457 ppb	218.006 ppb	92.533 %	92.628 %	91.286 %	98.395 %
Concentration per Run 2	0.007 ppb	89.544 %	98.223 %	0.431 ppb	209.258 ppb	93.915 %	97.885 %	92.601 %	102.546 %
Concentration per Run 3	0.005 ppb	88.683 %	101.060 %	0.441 ppb	201.517 ppb	94.145 %	101.811 %	90.910 %	105.073 %
Concentration RSD	19.5 %	0.9 %	3.3 %	3.0 %	3.9 %	0.9 %	4.7 %	1.0 %	3.3 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.091 ppb	0.064 ppb	84.967 %	89.129 %
Concentration per Run 1	0.094 ppb	0.067 ppb	84.457 %	87.687 %
Concentration per Run 2	0.091 ppb	0.057 ppb	84.387 %	89.191 %
Concentration per Run 3	0.088 ppb	0.067 ppb	86.057 %	90.508 %
Concentration RSD	3.3 %	9.2 %	1.1 %	1.6 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	63	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430210-04 6020SL	Rack	1		
Analysis started at:	6/11/2024 6:49:13 PM	Vial	50		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	97.524 %	94.689 %	0.051 ppb	29,841.099 ppb	49,365.454 ppb	1,405.437 ppb	19,584.742 ppb	150,093.657 ppb	108.802 %
Concentration per Run 1	97.979 %	87.745 %	0.051 ppb	31,976.301 ppb	52,754.853 ppb	1,535.052 ppb	20,347.013 ppb	157,508.795 ppb	107.923 %
Concentration per Run 2	97.053 %	101.471 %	0.050 ppb	28,340.816 ppb	46,581.680 ppb	1,358.809 ppb	19,357.654 ppb	148,407.076 ppb	109.290 %
Concentration per Run 3	97.539 %	94.853 %	0.052 ppb	29,206.179 ppb	48,759.828 ppb	1,322.450 ppb	19,049.559 ppb	144,365.100 ppb	109.191 %
Concentration RSD	0.5 %	7.2 %	2.6 %	6.4 %	6.3 %	8.1 %	3.5 %	4.5 %	0.7 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	103.190 %	4.333 ppb	4.783 ppb	142.465 ppb	2,689.930 ppb	2.421 ppb	8.324 ppb	9.060 ppb	48.156 ppb
Concentration per Run 1	99.413 %	4.432 ppb	5.238 ppb	150.512 ppb	2,847.955 ppb	2.595 ppb	8.954 ppb	9.591 ppb	50.930 ppb
Concentration per Run 2	104.074 %	4.227 ppb	4.682 ppb	140.038 ppb	2,596.746 ppb	2.419 ppb	8.334 ppb	8.983 ppb	46.512 ppb
Concentration per Run 3	106.084 %	4.340 ppb	4.428 ppb	136.846 ppb	2,625.087 ppb	2.248 ppb	7.685 ppb	8.605 ppb	47.026 ppb
Concentration RSD	3.3 %	2.4 %	8.7 %	5.0 %	5.1 %	7.2 %	7.6 %	5.5 %	5.0 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	104.516 %	104.898 %	0.261 ppb	7.794 ppb	775.710 ppb	0.416 ppb	85.801 %	94.901 %	0.016 ppb
Concentration per Run 1	104.520 %	99.305 %	0.358 ppb	8.558 ppb	819.701 ppb	0.395 ppb	84.832 %	90.241 %	0.019 ppb
Concentration per Run 2	104.441 %	107.195 %	0.209 ppb	7.310 ppb	752.864 ppb	0.478 ppb	85.654 %	97.231 %	0.014 ppb
Concentration per Run 3	104.588 %	108.192 %	0.215 ppb	7.514 ppb	754.565 ppb	0.376 ppb	86.918 %	97.233 %	0.016 ppb
Concentration RSD	0.1 %	4.6 %	32.2 %	8.6 %	4.9 %	13.0 %	1.2 %	4.3 %	15.6 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.078 ppb	88.552 %	98.685 %	0.313 ppb	54.898 ppb	95.754 %	99.688 %	92.641 %	101.892 %
Concentration per Run 1	0.085 ppb	81.379 %	93.105 %	0.317 ppb	58.481 ppb	93.331 %	93.893 %	91.445 %	95.438 %
Concentration per Run 2	0.074 ppb	90.977 %	101.160 %	0.305 ppb	54.342 ppb	97.917 %	100.409 %	92.574 %	104.348 %
Concentration per Run 3	0.076 ppb	93.299 %	101.788 %	0.316 ppb	51.870 ppb	96.014 %	104.763 %	93.903 %	105.890 %
Concentration RSD	7.6 %	7.1 %	4.9 %	2.2 %	6.1 %	2.4 %	5.5 %	1.3 %	5.5 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.082 ppb	1.306 ppb	86.925 %	87.616 %
Concentration per Run 1	0.084 ppb	1.379 ppb	85.012 %	84.997 %
Concentration per Run 2	0.084 ppb	1.289 ppb	85.780 %	87.320 %
Concentration per Run 3	0.079 ppb	1.250 ppb	89.984 %	90.529 %
Concentration RSD	3.4 %	5.1 %	3.1 %	3.2 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	64	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430210-05 6020SL	Rack	1		
Analysis started at:	6/11/2024 6:53:54 PM	Vial	51		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	97.523 %	100.490 %	0.043 ppb	29,063.679 ppb	43,432.769 ppb	1,220.599 ppb	18,500.593 ppb	133,633.625 ppb	93.481 %
Concentration per Run 1	97.005 %	93.627 %	0.049 ppb	30,035.039 ppb	43,510.501 ppb	1,297.227 ppb	18,520.096 ppb	134,537.852 ppb	94.845 %
Concentration per Run 2	97.179 %	99.265 %	0.037 ppb	29,275.598 ppb	43,881.388 ppb	1,227.810 ppb	18,730.826 ppb	134,606.767 ppb	93.532 %
Concentration per Run 3	98.384 %	108.579 %	0.044 ppb	27,880.401 ppb	42,906.419 ppb	1,136.760 ppb	18,250.856 ppb	131,756.257 ppb	92.066 %
Concentration RSD	0.8 %	7.5 %	13.1 %	3.8 %	1.1 %	6.6 %	1.3 %	1.2 %	1.5 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	109.773 %	3.704 ppb	4.297 ppb	98.759 ppb	2,291.612 ppb	1.928 ppb	6.583 ppb	8.360 ppb	30.177 ppb
Concentration per Run 1	109.873 %	3.717 ppb	4.430 ppb	99.807 ppb	2,350.369 ppb	2.002 ppb	6.908 ppb	8.621 ppb	30.655 ppb
Concentration per Run 2	108.344 %	3.720 ppb	4.342 ppb	98.269 ppb	2,268.589 ppb	1.875 ppb	6.668 ppb	8.087 ppb	29.717 ppb
Concentration per Run 3	111.101 %	3.674 ppb	4.120 ppb	98.202 ppb	2,255.877 ppb	1.907 ppb	6.172 ppb	8.372 ppb	30.159 ppb
Concentration RSD	1.3 %	0.7 %	3.7 %	0.9 %	2.2 %	3.4 %	5.7 %	3.2 %	1.6 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	105.935 %	103.308 %	0.274 ppb	6.325 ppb	734.034 ppb	0.389 ppb	85.939 %	95.894 %	0.014 ppb
Concentration per Run 1	104.626 %	100.848 %	0.288 ppb	6.385 ppb	749.487 ppb	0.357 ppb	83.848 %	94.903 %	0.011 ppb
Concentration per Run 2	106.915 %	105.106 %	0.254 ppb	6.759 ppb	719.969 ppb	0.393 ppb	87.404 %	96.818 %	0.017 ppb
Concentration per Run 3	106.263 %	103.970 %	0.280 ppb	5.830 ppb	732.647 ppb	0.416 ppb	86.566 %	95.962 %	0.014 ppb
Concentration RSD	1.1 %	2.1 %	6.5 %	7.4 %	2.0 %	7.7 %	2.2 %	1.0 %	20.7 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.066 ppb	89.552 %	99.105 %	0.230 ppb	59.232 ppb	94.830 %	100.402 %	94.411 %	104.386 %
Concentration per Run 1	0.064 ppb	92.652 %	96.742 %	0.212 ppb	58.178 ppb	94.749 %	99.492 %	93.195 %	104.102 %
Concentration per Run 2	0.073 ppb	92.323 %	101.383 %	0.233 ppb	60.564 ppb	96.633 %	98.962 %	94.535 %	103.027 %
Concentration per Run 3	0.062 ppb	83.680 %	99.190 %	0.246 ppb	58.955 ppb	93.108 %	102.754 %	95.504 %	106.030 %
Concentration RSD	9.0 %	5.7 %	2.3 %	7.5 %	2.1 %	1.9 %	2.0 %	1.2 %	1.5 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.069 ppb	0.951 ppb	87.840 %	92.066 %
Concentration per Run 1	0.072 ppb	0.955 ppb	86.284 %	90.595 %
Concentration per Run 2	0.066 ppb	0.960 ppb	87.861 %	92.895 %
Concentration per Run 3	0.069 ppb	0.938 ppb	89.375 %	92.707 %
Concentration RSD	4.3 %	1.2 %	1.8 %	1.4 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	65	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430219-01 6020SL	Rack	1		
Analysis started at:	6/11/2024 6:58:34 PM	Vial	52		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	97.259 %	94.689 %	0.010 ppb	43,675.850 ppb	211.750 ppb	848.757 ppb	23,972.259 ppb	106,610.902 ppb	102.648 %
Concentration per Run 1	98.123 %	95.833 %	0.012 ppb	44,294.902 ppb	214.516 ppb	867.785 ppb	24,860.271 ppb	112,786.478 ppb	91.054 %
Concentration per Run 2	96.236 %	87.745 %	0.012 ppb	44,843.561 ppb	215.765 ppb	869.948 ppb	23,780.921 ppb	105,070.422 ppb	106.789 %
Concentration per Run 3	97.420 %	100.490 %	0.008 ppb	41,889.088 ppb	204.968 ppb	808.536 ppb	23,275.584 ppb	101,975.805 ppb	110.102 %
Concentration RSD	1.0 %	6.8 %	21.8 %	3.6 %	2.8 %	4.1 %	3.4 %	5.2 %	9.9 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	99.431 %	17.505 ppb	0.365 ppb	777.922 ppb	134.879 ppb	0.523 ppb	4.373 ppb	1.242 ppb	0.595 ppb
Concentration per Run 1	95.998 %	18.357 ppb	0.385 ppb	821.812 ppb	137.536 ppb	0.539 ppb	4.862 ppb	1.325 ppb	0.652 ppb
Concentration per Run 2	100.338 %	17.547 ppb	0.348 ppb	755.143 ppb	132.059 ppb	0.529 ppb	4.056 ppb	1.199 ppb	0.600 ppb
Concentration per Run 3	101.957 %	16.609 ppb	0.363 ppb	756.811 ppb	135.041 ppb	0.502 ppb	4.199 ppb	1.202 ppb	0.533 ppb
Concentration RSD	3.1 %	5.0 %	5.1 %	4.9 %	2.0 %	3.7 %	9.8 %	5.8 %	10.0 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	108.101 %	105.817 %	4.054 ppb	1.182 ppb	836.108 ppb	24.212 ppb	91.540 %	95.863 %	0.000 ppb
Concentration per Run 1	107.012 %	99.186 %	4.399 ppb	1.424 ppb	875.881 ppb	25.854 ppb	88.556 %	92.178 %	0.001 ppb
Concentration per Run 2	108.178 %	108.244 %	3.838 ppb	1.087 ppb	811.561 ppb	23.654 ppb	94.581 %	97.667 %	0.000 ppb
Concentration per Run 3	109.112 %	110.023 %	3.926 ppb	1.035 ppb	820.883 ppb	23.129 ppb	91.482 %	97.744 %	0.001 ppb
Concentration RSD	1.0 %	5.5 %	7.4 %	17.9 %	4.2 %	6.0 %	3.3 %	3.3 %	149.1 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.004 ppb	94.588 %	98.905 %	0.884 ppb	7.710 ppb	94.504 %	99.105 %	95.100 %	101.948 %
Concentration per Run 1	0.005 ppb	93.349 %	91.573 %	0.965 ppb	8.171 ppb	93.569 %	92.397 %	96.329 %	96.283 %
Concentration per Run 2	0.003 ppb	94.873 %	102.555 %	0.848 ppb	7.437 ppb	92.979 %	101.662 %	96.809 %	102.893 %
Concentration per Run 3	0.004 ppb	95.540 %	102.588 %	0.840 ppb	7.522 ppb	96.963 %	103.257 %	92.163 %	106.669 %
Concentration RSD	20.9 %	1.2 %	6.4 %	7.9 %	5.2 %	2.3 %	5.9 %	2.7 %	5.2 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.044 ppb	0.024 ppb	89.649 %	90.114 %
Concentration per Run 1	0.041 ppb	0.025 ppb	90.212 %	86.747 %
Concentration per Run 2	0.044 ppb	0.025 ppb	88.802 %	89.323 %
Concentration per Run 3	0.047 ppb	0.023 ppb	89.933 %	94.272 %
Concentration RSD	6.7 %	4.1 %	0.8 %	4.2 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	66	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430219-05 6020SL	Rack	1		
Analysis started at:	6/11/2024 7:05:17 PM	Vial	53		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	100.955 %	100.980 %	0.034 ppb	6,659.578 ppb	1,824.260 ppb	4.956 ppb	1,794.713 ppb	12,683.722 ppb	99.887 %
Concentration per Run 1	101.839 %	96.078 %	0.036 ppb	7,101.628 ppb	1,941.024 ppb	3.924 ppb	1,868.503 ppb	12,946.215 ppb	92.333 %
Concentration per Run 2	100.264 %	100.735 %	0.030 ppb	6,577.892 ppb	1,811.908 ppb	6.601 ppb	1,766.352 ppb	12,757.036 ppb	104.277 %
Concentration per Run 3	100.763 %	106.128 %	0.035 ppb	6,299.214 ppb	1,719.848 ppb	4.343 ppb	1,749.285 ppb	12,347.915 ppb	103.051 %
Concentration RSD	0.8 %	5.0 %	9.4 %	6.1 %	6.1 %	29.1 %	3.6 %	2.4 %	6.6 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	106.357 %	0.044 ppb	0.303 ppb	0.892 ppb	5.165 ppb	0.041 ppb	1.499 ppb	0.226 ppb	0.680 ppb
Concentration per Run 1	103.718 %	0.048 ppb	0.341 ppb	0.941 ppb	4.400 ppb	0.042 ppb	1.637 ppb	0.255 ppb	0.780 ppb
Concentration per Run 2	105.924 %	0.042 ppb	0.258 ppb	0.917 ppb	3.834 ppb	0.041 ppb	1.415 ppb	0.221 ppb	0.673 ppb
Concentration per Run 3	109.429 %	0.044 ppb	0.312 ppb	0.818 ppb	7.259 ppb	0.040 ppb	1.444 ppb	0.202 ppb	0.589 ppb
Concentration RSD	2.7 %	6.9 %	13.9 %	7.3 %	35.6 %	2.4 %	8.0 %	11.9 %	14.0 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	103.379 %	106.243 %	0.128 ppb	1.134 ppb	68.228 ppb	0.066 ppb	93.522 %	100.094 %	0.000 ppb
Concentration per Run 1	103.567 %	101.901 %	0.086 ppb	1.356 ppb	71.088 ppb	0.068 ppb	97.663 %	95.999 %	0.000 ppb
Concentration per Run 2	103.988 %	105.352 %	0.171 ppb	1.185 ppb	67.492 ppb	0.071 ppb	86.110 %	101.125 %	0.001 ppb
Concentration per Run 3	102.583 %	111.475 %	0.127 ppb	0.861 ppb	66.103 ppb	0.060 ppb	96.793 %	103.156 %	0.000 ppb
Concentration RSD	0.7 %	4.6 %	33.2 %	22.2 %	3.8 %	9.2 %	6.9 %	3.7 %	112.7 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.020 ppb	98.651 %	106.360 %	0.047 ppb	7.499 ppb	98.725 %	101.275 %	96.572 %	103.308 %
Concentration per Run 1	0.027 ppb	98.429 %	102.330 %	0.027 ppb	7.847 ppb	98.599 %	97.012 %	96.613 %	99.086 %
Concentration per Run 2	0.020 ppb	98.149 %	108.447 %	0.054 ppb	7.591 ppb	97.486 %	103.304 %	96.991 %	106.053 %
Concentration per Run 3	0.014 ppb	99.375 %	108.302 %	0.061 ppb	7.059 ppb	100.091 %	103.508 %	96.113 %	104.785 %
Concentration RSD	30.1 %	0.7 %	3.3 %	38.6 %	5.4 %	1.3 %	3.6 %	0.5 %	3.6 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.032 ppb	0.013 ppb	93.636 %	96.516 %
Concentration per Run 1	0.032 ppb	0.016 ppb	93.691 %	92.321 %
Concentration per Run 2	0.032 ppb	0.012 ppb	92.864 %	95.248 %
Concentration per Run 3	0.031 ppb	0.012 ppb	94.354 %	101.980 %
Concentration RSD	1.9 %	16.8 %	0.8 %	5.1 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	67	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430219-08 6020SL	Rack	1		
Analysis started at:	6/11/2024 7:09:56 PM	Vial	54		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	97.060 %	98.774 %	0.007 ppb	31,380.627 ppb	4,171.660 ppb	6.833 ppb	27,596.932 ppb	42,350.616 ppb	103.043 %
Concentration per Run 1	96.804 %	95.098 %	0.006 ppb	32,621.114 ppb	4,378.110 ppb	5.089 ppb	28,651.760 ppb	43,395.952 ppb	102.909 %
Concentration per Run 2	97.458 %	96.569 %	0.009 ppb	31,244.029 ppb	4,112.893 ppb	7.834 ppb	26,886.321 ppb	42,142.345 ppb	103.292 %
Concentration per Run 3	96.917 %	104.657 %	0.006 ppb	30,276.736 ppb	4,023.977 ppb	7.577 ppb	27,252.716 ppb	41,513.550 ppb	102.929 %
Concentration RSD	0.4 %	5.2 %	22.7 %	3.8 %	4.4 %	22.2 %	3.4 %	2.3 %	0.2 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	98.020 %	0.301 ppb	0.306 ppb	11.600 ppb	24.297 ppb	0.206 ppb	6.935 ppb	2.765 ppb	0.718 ppb
Concentration per Run 1	94.752 %	0.309 ppb	0.355 ppb	12.161 ppb	27.161 ppb	0.237 ppb	7.405 ppb	3.027 ppb	0.802 ppb
Concentration per Run 2	100.409 %	0.306 ppb	0.285 ppb	11.116 ppb	23.832 ppb	0.188 ppb	6.615 ppb	2.702 ppb	0.679 ppb
Concentration per Run 3	98.897 %	0.288 ppb	0.278 ppb	11.522 ppb	21.898 ppb	0.193 ppb	6.786 ppb	2.566 ppb	0.674 ppb
Concentration RSD	3.0 %	3.8 %	13.8 %	4.5 %	11.0 %	13.0 %	6.0 %	8.6 %	10.1 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	104.560 %	101.709 %	0.249 ppb	0.446 ppb	164.991 ppb	2.116 ppb	93.865 %	94.093 %	0.002 ppb
Concentration per Run 1	102.863 %	96.090 %	0.190 ppb	0.271 ppb	174.268 ppb	2.238 ppb	93.364 %	89.987 %	0.005 ppb
Concentration per Run 2	105.641 %	104.746 %	0.328 ppb	0.539 ppb	158.942 ppb	2.122 ppb	95.227 %	96.038 %	0.001 ppb
Concentration per Run 3	105.177 %	104.291 %	0.228 ppb	0.529 ppb	161.762 ppb	1.987 ppb	93.003 %	96.254 %	0.000 ppb
Concentration RSD	1.4 %	4.8 %	28.8 %	34.0 %	4.9 %	5.9 %	1.3 %	3.8 %	116.4 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.008 ppb	93.430 %	97.698 %	0.055 ppb	63.030 ppb	97.261 %	98.254 %	95.741 %	101.331 %
Concentration per Run 1	0.008 ppb	93.155 %	92.410 %	0.052 ppb	66.217 ppb	95.861 %	93.594 %	94.760 %	97.649 %
Concentration per Run 2	0.011 ppb	93.129 %	100.274 %	0.061 ppb	61.200 ppb	98.899 %	101.320 %	96.208 %	104.661 %
Concentration per Run 3	0.005 ppb	94.005 %	100.410 %	0.050 ppb	61.672 ppb	97.023 %	99.849 %	96.255 %	101.684 %
Concentration RSD	34.9 %	0.5 %	4.7 %	10.9 %	4.4 %	1.6 %	4.2 %	0.9 %	3.5 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.197 ppb	0.013 ppb	88.593 %	89.775 %
Concentration per Run 1	0.199 ppb	0.014 ppb	86.601 %	87.137 %
Concentration per Run 2	0.198 ppb	0.012 ppb	87.621 %	90.488 %
Concentration per Run 3	0.194 ppb	0.011 ppb	91.559 %	91.701 %
Concentration RSD	1.3 %	9.6 %	3.0 %	2.6 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	68	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430219-09 6020SL	Rack	1		
Analysis started at:	6/11/2024 7:14:38 PM	Vial	55		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	97.204 %	96.405 %	0.006 ppb	32,840.260 ppb	4,328.051 ppb	4.517 ppb	28,158.175 ppb	43,686.134 ppb	103.967 %
Concentration per Run 1	97.336 %	94.118 %	0.000 ppb	34,587.923 ppb	4,555.621 ppb	1.576 ppb	29,616.822 ppb	46,175.648 ppb	99.394 %
Concentration per Run 2	97.426 %	90.196 %	0.010 ppb	33,757.189 ppb	4,437.268 ppb	5.654 ppb	27,945.263 ppb	42,867.924 ppb	105.394 %
Concentration per Run 3	96.850 %	104.902 %	0.008 ppb	30,175.667 ppb	3,991.264 ppb	6.322 ppb	26,912.441 ppb	42,014.830 ppb	107.115 %
Concentration RSD	0.3 %	7.9 %	82.0 %	7.1 %	6.9 %	56.9 %	4.8 %	5.0 %	3.9 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	96.223 %	0.310 ppb	0.353 ppb	11.796 ppb	5.810 ppb	0.220 ppb	0.646 ppb	2.710 ppb	0.485 ppb
Concentration per Run 1	93.845 %	0.347 ppb	0.363 ppb	12.574 ppb	6.694 ppb	0.208 ppb	0.745 ppb	2.863 ppb	0.492 ppb
Concentration per Run 2	95.748 %	0.284 ppb	0.344 ppb	11.409 ppb	6.948 ppb	0.222 ppb	0.648 ppb	2.692 ppb	0.531 ppb
Concentration per Run 3	99.075 %	0.299 ppb	0.352 ppb	11.405 ppb	3.787 ppb	0.229 ppb	0.547 ppb	2.575 ppb	0.431 ppb
Concentration RSD	2.8 %	10.7 %	2.7 %	5.7 %	30.2 %	4.7 %	15.3 %	5.4 %	10.4 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	105.677 %	102.656 %	0.245 ppb	0.524 ppb	168.536 ppb	2.318 ppb	91.952 %	93.888 %	0.000 ppb
Concentration per Run 1	103.671 %	93.283 %	0.207 ppb	0.726 ppb	182.652 ppb	2.503 ppb	93.040 %	88.747 %	0.000 ppb
Concentration per Run 2	107.125 %	107.216 %	0.291 ppb	0.421 ppb	162.718 ppb	2.270 ppb	94.949 %	95.697 %	0.001 ppb
Concentration per Run 3	106.235 %	107.468 %	0.237 ppb	0.426 ppb	160.237 ppb	2.181 ppb	87.866 %	97.220 %	0.000 ppb
Concentration RSD	1.7 %	7.9 %	17.4 %	33.3 %	7.3 %	7.2 %	4.0 %	4.8 %	90.1 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.011 ppb	93.928 %	97.929 %	0.542 ppb	63.215 ppb	96.931 %	97.103 %	95.057 %	101.666 %
Concentration per Run 1	0.016 ppb	94.244 %	93.701 %	0.580 ppb	68.135 ppb	96.220 %	90.866 %	96.768 %	92.623 %
Concentration per Run 2	0.006 ppb	94.819 %	100.873 %	0.521 ppb	61.055 ppb	97.702 %	99.876 %	94.851 %	104.321 %
Concentration per Run 3	0.011 ppb	92.722 %	99.211 %	0.525 ppb	60.455 ppb	96.870 %	100.567 %	93.552 %	108.054 %
Concentration RSD	41.4 %	1.2 %	3.8 %	6.0 %	6.8 %	0.8 %	5.6 %	1.7 %	7.9 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.195 ppb	0.011 ppb	89.982 %	89.896 %
Concentration per Run 1	0.194 ppb	0.015 ppb	90.033 %	84.846 %
Concentration per Run 2	0.199 ppb	0.010 ppb	90.907 %	91.349 %
Concentration per Run 3	0.190 ppb	0.009 ppb	89.007 %	93.494 %
Concentration RSD	2.3 %	27.9 %	1.1 %	5.0 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	69	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	6/11/2024 7:19:19 PM	Vial	9		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	97.206 %	97.304 %	60.965 ppb	6,089.759 ppb	6,145.207 ppb	63.278 ppb	6,485.036 ppb	6,227.346 ppb	93.993 %
Concentration per Run 1	97.576 %	87.255 %	61.512 ppb	6,492.620 ppb	6,603.567 ppb	56.954 ppb	6,591.115 ppb	6,365.211 ppb	88.992 %
Concentration per Run 2	96.766 %	100.245 %	60.614 ppb	5,922.883 ppb	5,976.086 ppb	61.479 ppb	6,369.383 ppb	5,973.037 ppb	104.037 %
Concentration per Run 3	97.275 %	104.412 %	60.768 ppb	5,853.776 ppb	5,855.968 ppb	71.400 ppb	6,494.609 ppb	6,343.791 ppb	88.951 %
Recovery Percentage 1			101.608 %	101.496 %	102.420 %	105.463 %	108.084 %	103.789 %	
Concentration RSD	0.4 %	9.2 %	0.8 %	5.8 %	6.5 %	11.7 %	1.7 %	3.5 %	9.3 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	107.074 %	62.099 ppb	59.948 ppb	63.194 ppb	6,255.016 ppb	60.881 ppb	60.631 ppb	60.440 ppb	61.091 ppb
Concentration per Run 1	106.529 %	63.334 ppb	61.715 ppb	64.581 ppb	6,418.759 ppb	62.506 ppb	64.317 ppb	62.230 ppb	63.519 ppb
Concentration per Run 2	108.450 %	61.416 ppb	58.540 ppb	62.069 ppb	6,243.501 ppb	60.475 ppb	58.449 ppb	59.025 ppb	59.356 ppb
Concentration per Run 3	106.244 %	61.549 ppb	59.588 ppb	62.932 ppb	6,102.789 ppb	59.661 ppb	59.127 ppb	60.066 ppb	60.400 ppb
Recovery Percentage 1		103.499 %	99.913 %	105.323 %	104.250 %	101.468 %	101.052 %	100.733 %	101.819 %
Concentration RSD	1.1 %	1.7 %	2.7 %	2.0 %	2.5 %	2.4 %	5.3 %	2.7 %	3.5 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	101.087 %	104.126 %	59.506 ppb	61.084 ppb	62.086 ppb	58.148 ppb	91.314 %	98.277 %	58.937 ppb
Concentration per Run 1	102.165 %	99.835 %	62.418 ppb	64.319 ppb	64.011 ppb	59.514 ppb	94.734 %	96.504 %	61.427 ppb
Concentration per Run 2	99.637 %	105.655 %	58.491 ppb	59.989 ppb	62.090 ppb	57.781 ppb	94.725 %	98.646 %	58.187 ppb
Concentration per Run 3	101.459 %	106.887 %	57.608 ppb	58.943 ppb	60.158 ppb	57.150 ppb	84.482 %	99.682 %	57.198 ppb
Recovery Percentage 1			99.176 %	101.806 %	103.477 %	96.914 %			98.229 %
Concentration RSD	1.3 %	3.6 %	4.3 %	4.7 %	3.1 %	2.1 %	6.5 %	1.6 %	3.8 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	58.254 ppb	95.133 %	105.815 %	55.165 ppb	59.621 ppb	93.730 %	101.951 %	94.319 %	103.935 %
Concentration per Run 1	59.798 ppb	97.226 %	103.024 %	57.262 ppb	61.136 ppb	93.720 %	99.770 %	94.025 %	102.675 %
Concentration per Run 2	57.362 ppb	94.051 %	104.972 %	55.428 ppb	60.206 ppb	92.960 %	103.599 %	93.509 %	104.457 %
Concentration per Run 3	57.601 ppb	94.123 %	109.448 %	52.804 ppb	57.522 ppb	94.510 %	102.485 %	95.422 %	104.673 %
Recovery Percentage 1	97.090 %			91.942 %	99.369 %				
Concentration RSD	2.3 %	1.9 %	3.1 %	4.1 %	3.1 %	0.8 %	1.9 %	1.0 %	1.1 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	61.285 ppb	56.950 ppb	91.505 %	97.801 %
Concentration per Run 1	61.142 ppb	58.561 ppb	91.664 %	94.774 %
Concentration per Run 2	60.374 ppb	56.926 ppb	91.167 %	98.662 %
Concentration per Run 3	62.338 ppb	55.363 ppb	91.684 %	99.968 %
Recovery Percentage 1	102.141 %	94.917 %		
Concentration RSD	1.6 %	2.8 %	0.3 %	2.8 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index: 70 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: CCB Rack 0
Analysis started at: 6/11/2024 7:24:04 PM Vial 10

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	99.941 %	98.366 %	0.017 ppb	2.251 ppb	0.670 ppb	0.009 ppb	7.727 ppb	0.250 ppb	100.750 %
Concentration per Run 1	100.161 %	93.872 %	0.016 ppb	2.895 ppb	0.917 ppb	-0.241 ppb	13.895 ppb	-15.296 ppb	104.121 %
Concentration per Run 2	100.334 %	100.000 %	0.023 ppb	2.205 ppb	-0.029 ppb	0.140 ppb	3.128 ppb	-0.638 ppb	99.156 %
Concentration per Run 3	99.328 %	101.226 %	0.014 ppb	1.654 ppb	1.123 ppb	0.128 ppb	6.158 ppb	16.684 ppb	98.972 %
Recovery Percentage 1			3.490 %	2.251 %	0.957 %	0.087 %	7.727 %	0.250 %	
Concentration RSD	0.5 %	4.0 %	26.2 %	27.6 %	91.6 %	2,484.4 %	71.9 %	6,402.0 %	2.9 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	101.820 %	0.011 ppb	-0.001 ppb	0.167 ppb	3.995 ppb	0.008 ppb	0.065 ppb	0.035 ppb	0.427 ppb
Concentration per Run 1	100.178 %	0.023 ppb	-0.009 ppb	0.163 ppb	5.223 ppb	0.007 ppb	0.071 ppb	0.031 ppb	0.414 ppb
Concentration per Run 2	102.242 %	0.004 ppb	0.011 ppb	0.169 ppb	4.207 ppb	0.009 ppb	0.048 ppb	0.043 ppb	0.405 ppb
Concentration per Run 3	103.042 %	0.008 ppb	-0.005 ppb	0.169 ppb	2.557 ppb	0.008 ppb	0.076 ppb	0.029 ppb	0.461 ppb
Recovery Percentage 1		0.229 %	-0.120 %	16.703 %	7.991 %	1.610 %	3.243 %	3.452 %	8.534 %
Concentration RSD	1.5 %	85.8 %	904.2 %	2.1 %	33.7 %	13.8 %	23.0 %	21.5 %	7.1 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	99.934 %	102.766 %	0.012 ppb	0.091 ppb	0.042 ppb	0.190 ppb	98.728 %	101.057 %	0.010 ppb
Concentration per Run 1	100.661 %	101.446 %	0.002 ppb	0.012 ppb	0.064 ppb	0.171 ppb	96.690 %	97.822 %	0.012 ppb
Concentration per Run 2	99.561 %	101.837 %	0.000 ppb	0.114 ppb	0.016 ppb	0.224 ppb	99.010 %	101.911 %	0.011 ppb
Concentration per Run 3	99.580 %	105.013 %	0.034 ppb	0.148 ppb	0.046 ppb	0.174 ppb	100.486 %	103.437 %	0.008 ppb
Recovery Percentage 1			2.418 %	1.829 %	8.382 %	9.491 %			2.581 %
Concentration RSD	0.6 %	1.9 %	157.9 %	77.5 %	57.5 %	15.8 %	1.9 %	2.9 %	23.8 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.005 ppb	98.198 %	105.235 %	0.731 ppb	0.033 ppb	96.594 %	101.189 %	95.988 %	104.345 %
Concentration per Run 1	0.004 ppb	98.436 %	99.939 %	0.667 ppb	0.027 ppb	99.778 %	97.266 %	97.747 %	100.245 %
Concentration per Run 2	0.007 ppb	97.758 %	106.902 %	0.756 ppb	0.024 ppb	95.594 %	104.763 %	96.364 %	106.234 %
Concentration per Run 3	0.003 ppb	98.402 %	108.862 %	0.770 ppb	0.049 ppb	94.409 %	101.539 %	93.852 %	106.557 %
Recovery Percentage 1				18.280 %	6.672 %				
Concentration RSD	47.5 %	0.4 %	4.5 %	7.6 %	41.6 %	2.9 %	3.7 %	2.1 %	3.4 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.137 ppb	0.014 ppb	95.259 %	99.018 %
Concentration per Run 1	0.151 ppb	0.013 ppb	95.777 %	95.519 %
Concentration per Run 2	0.135 ppb	0.017 ppb	96.050 %	100.571 %
Concentration per Run 3	0.124 ppb	0.012 ppb	93.952 %	100.963 %
Recovery Percentage 1	13.683 %	1.369 %		
Concentration RSD	10.1 %	19.2 %	1.2 %	3.1 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index: 71
Analysis label: xl2430543-02 2008SL
Analysis started at: 6/11/2024 7:38:35 PM
User name ALPHALAB\ICPMSRQ
Rack 1
Vial 6
Comment ng

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	102.099 %	107.353 %	0.011 ppb	10,548.837 ppb	12,154.377 ppb	21.835 ppb	4,218.911 ppb	39,363.068 ppb	105.241 %
Concentration per Run 1	102.908 %	98.284 %	0.019 ppb	11,363.713 ppb	13,262.703 ppb	27.387 ppb	4,403.309 ppb	41,367.253 ppb	111.327 %
Concentration per Run 2	102.276 %	110.049 %	0.009 ppb	10,210.573 ppb	11,762.133 ppb	17.968 ppb	4,154.000 ppb	38,018.186 ppb	108.697 %
Concentration per Run 3	101.113 %	113.726 %	0.007 ppb	10,072.224 ppb	11,438.293 ppb	20.150 ppb	4,099.422 ppb	38,703.766 ppb	95.700 %
Concentration RSD	0.9 %	7.5 %	54.2 %	6.7 %	8.0 %	22.6 %	3.8 %	4.5 %	8.0 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	114.096 %	0.124 ppb	0.045 ppb	238.602 ppb	48.063 ppb	0.034 ppb	0.714 ppb	1.047 ppb	3.740 ppb
Concentration per Run 1	112.809 %	0.108 ppb	0.060 ppb	249.502 ppb	49.380 ppb	0.028 ppb	0.806 ppb	1.094 ppb	4.038 ppb
Concentration per Run 2	114.179 %	0.113 ppb	0.036 ppb	234.581 ppb	42.877 ppb	0.037 ppb	0.621 ppb	1.034 ppb	3.619 ppb
Concentration per Run 3	115.300 %	0.149 ppb	0.039 ppb	231.722 ppb	51.933 ppb	0.037 ppb	0.715 ppb	1.014 ppb	3.561 ppb
Concentration RSD	1.1 %	17.8 %	28.5 %	4.0 %	9.7 %	15.6 %	12.9 %	4.0 %	7.0 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	105.327 %	109.676 %	0.742 ppb	0.057 ppb	236.041 ppb	0.769 ppb	92.953 %	96.651 %	0.001 ppb
Concentration per Run 1	103.277 %	104.971 %	0.813 ppb	0.049 ppb	248.473 ppb	0.880 ppb	97.680 %	92.486 %	0.000 ppb
Concentration per Run 2	106.745 %	113.435 %	0.708 ppb	0.070 ppb	226.178 ppb	0.667 ppb	86.962 %	98.778 %	0.002 ppb
Concentration per Run 3	105.957 %	110.623 %	0.704 ppb	0.052 ppb	233.473 ppb	0.759 ppb	94.217 %	98.690 %	0.001 ppb
Concentration RSD	1.7 %	3.9 %	8.3 %	20.2 %	4.8 %	13.9 %	5.9 %	3.7 %	113.4 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.005 ppb	98.455 %	106.320 %	0.210 ppb	21.944 ppb	99.766 %	104.187 %	97.701 %	106.586 %
Concentration per Run 1	0.004 ppb	97.536 %	101.461 %	0.201 ppb	23.802 ppb	100.844 %	97.965 %	97.694 %	103.195 %
Concentration per Run 2	0.005 ppb	98.535 %	107.892 %	0.195 ppb	21.490 ppb	101.694 %	106.172 %	97.673 %	106.647 %
Concentration per Run 3	0.006 ppb	99.293 %	109.608 %	0.234 ppb	20.540 ppb	96.761 %	108.425 %	97.737 %	109.914 %
Concentration RSD	17.9 %	0.9 %	4.0 %	10.0 %	7.6 %	2.6 %	5.3 %	0.0 %	3.2 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.049 ppb	0.049 ppb	92.732 %	96.215 %
Concentration per Run 1	0.053 ppb	0.055 ppb	91.948 %	91.227 %
Concentration per Run 2	0.047 ppb	0.043 ppb	94.427 %	97.508 %
Concentration per Run 3	0.046 ppb	0.047 ppb	91.821 %	99.912 %
Concentration RSD	7.9 %	11.7 %	1.6 %	4.7 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	72	User name	ALPHALAB\ICPMSRQ	Comment	ng
Analysis label:	xWG1931192-5d10 2008SL	Rack	1		
Analysis started at:	6/11/2024 7:43:16 PM	Vial	7		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	171.090 %	127.454 %	1.223 ppb	128.704 ppb	133.621 ppb	9.630 ppb	65.037 ppb	257.805 ppb	151.023 %
Concentration per Run 1	163.144 %	199.514 %	2.738 ppb	-10.272 ppb	13.695 ppb	0.514 ppb	-31.263 ppb	19.530 ppb	171.345 %
Concentration per Run 2	136.169 %	81.864 %	0.870 ppb	305.355 ppb	301.721 ppb	21.451 ppb	207.278 ppb	579.203 ppb	108.477 %
Concentration per Run 3	213.958 %	100.983 %	0.062 ppb	91.028 ppb	85.448 ppb	6.925 ppb	19.097 ppb	174.682 ppb	173.246 %
Concentration RSD	23.1 %	49.5 %	112.2 %	125.2 %	112.2 %	111.4 %	193.3 %	112.1 %	24.4 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	111.924 %	3.109 ppb	1.068 ppb	4.451 ppb	6.643 ppb	2.962 ppb	2.749 ppb	1.518 ppb	2.481 ppb
Concentration per Run 1	166.261 %	0.405 ppb	0.041 ppb	0.500 ppb	2.283 ppb	0.301 ppb	0.231 ppb	0.105 ppb	0.022 ppb
Concentration per Run 2	71.570 %	6.978 ppb	2.539 ppb	10.232 ppb	14.663 ppb	6.792 ppb	6.437 ppb	3.620 ppb	6.036 ppb
Concentration per Run 3	97.942 %	1.943 ppb	0.624 ppb	2.622 ppb	2.982 ppb	1.794 ppb	1.577 ppb	0.831 ppb	1.386 ppb
Concentration RSD	43.7 %	110.6 %	122.4 %	115.0 %	104.7 %	114.8 %	118.8 %	122.2 %	127.1 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	167.970 %	118.212 %	0.626 ppb	0.621 ppb	8.895 ppb	8.190 ppb	159.118 %	118.461 %	0.352 ppb
Concentration per Run 1	164.060 %	172.348 %	0.084 ppb	0.027 ppb	0.673 ppb	7.171 ppb	160.811 %	149.447 %	0.026 ppb
Concentration per Run 2	136.360 %	82.485 %	1.571 ppb	1.319 ppb	19.795 ppb	14.220 ppb	125.020 %	66.843 %	0.818 ppb
Concentration per Run 3	203.489 %	99.804 %	0.224 ppb	0.517 ppb	6.218 ppb	3.177 ppb	191.522 %	139.095 %	0.213 ppb
Concentration RSD	20.1 %	40.3 %	131.1 %	105.0 %	110.6 %	68.3 %	20.9 %	38.0 %	117.5 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.347 ppb	160.167 %	117.005 %	5.305 ppb	11.430 ppb	165.431 %	150.534 %	166.728 %	117.921 %
Concentration per Run 1	0.034 ppb	153.629 %	154.971 %	4.888 ppb	0.985 ppb	167.217 %	202.472 %	165.364 %	162.156 %
Concentration per Run 2	0.800 ppb	121.968 %	74.848 %	8.371 ppb	27.292 ppb	119.911 %	89.929 %	119.290 %	62.694 %
Concentration per Run 3	0.206 ppb	204.903 %	121.197 %	2.656 ppb	6.013 ppb	209.165 %	159.201 %	215.531 %	128.911 %
Concentration RSD	115.9 %	26.1 %	34.4 %	54.3 %	122.2 %	27.0 %	37.7 %	28.9 %	42.9 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	2.864 ppb	2.571 ppb	168.669 %	159.041 %
Concentration per Run 1	6.650 ppb	0.268 ppb	175.708 %	208.046 %
Concentration per Run 2	1.781 ppb	6.417 ppb	119.080 %	80.644 %
Concentration per Run 3	0.161 ppb	1.029 ppb	211.220 %	188.431 %
Concentration RSD	117.9 %	130.4 %	27.6 %	43.1 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	73	User name	ALPHALAB\ICPMSRQ	Comment	ng
Analysis label:	xWG1931192-6 2008SL	Rack	1		
Analysis started at:	6/11/2024 7:47:59 PM	Vial	8		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	100.785 %	105.964 %	0.015 ppb	10,513.557 ppb	12,008.238 ppb	21.562 ppb	4,266.419 ppb	39,802.242 ppb	94.692 %
Concentration per Run 1	100.450 %	101.716 %	0.016 ppb	10,899.073 ppb	12,437.416 ppb	21.223 ppb	4,237.066 ppb	40,326.023 ppb	95.982 %
Concentration per Run 2	101.005 %	110.049 %	0.015 ppb	10,251.307 ppb	11,802.676 ppb	23.158 ppb	4,255.750 ppb	39,083.191 ppb	95.249 %
Concentration per Run 3	100.900 %	106.128 %	0.015 ppb	10,390.290 ppb	11,784.622 ppb	20.305 ppb	4,306.442 ppb	39,997.512 ppb	92.846 %
Concentration RSD	0.3 %	3.9 %	3.8 %	3.2 %	3.1 %	6.8 %	0.8 %	1.6 %	1.7 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	105.177 %	0.144 ppb	0.113 ppb	238.818 ppb	61.617 ppb	0.053 ppb	0.758 ppb	1.122 ppb	4.061 ppb
Concentration per Run 1	104.892 %	0.152 ppb	0.102 ppb	246.766 ppb	62.651 ppb	0.062 ppb	0.723 ppb	1.201 ppb	4.373 ppb
Concentration per Run 2	104.928 %	0.128 ppb	0.107 ppb	236.176 ppb	61.469 ppb	0.055 ppb	0.749 ppb	1.019 ppb	4.029 ppb
Concentration per Run 3	105.710 %	0.153 ppb	0.132 ppb	233.512 ppb	60.730 ppb	0.043 ppb	0.801 ppb	1.146 ppb	3.781 ppb
Concentration RSD	0.4 %	9.9 %	14.0 %	2.9 %	1.6 %	17.8 %	5.2 %	8.3 %	7.3 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	104.450 %	106.678 %	0.689 ppb	0.081 ppb	222.480 ppb	1.608 ppb	96.143 %	98.452 %	0.004 ppb
Concentration per Run 1	102.743 %	102.041 %	0.733 ppb	0.077 ppb	235.164 ppb	1.487 ppb	97.466 %	94.686 %	0.004 ppb
Concentration per Run 2	106.231 %	109.556 %	0.706 ppb	0.085 ppb	215.761 ppb	1.573 ppb	96.097 %	100.535 %	0.004 ppb
Concentration per Run 3	104.376 %	108.437 %	0.629 ppb	0.081 ppb	216.514 ppb	1.763 ppb	94.867 %	100.134 %	0.003 ppb
Concentration RSD	1.7 %	3.8 %	7.8 %	4.9 %	4.9 %	8.8 %	1.4 %	3.3 %	15.5 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.007 ppb	97.162 %	102.664 %	1.782 ppb	21.630 ppb	96.823 %	101.192 %	96.717 %	102.309 %
Concentration per Run 1	0.010 ppb	97.425 %	99.276 %	1.464 ppb	22.893 ppb	96.940 %	96.826 %	98.659 %	99.784 %
Concentration per Run 2	0.002 ppb	96.457 %	103.414 %	1.856 ppb	21.063 ppb	96.841 %	101.317 %	96.787 %	101.283 %
Concentration per Run 3	0.009 ppb	97.604 %	105.302 %	2.026 ppb	20.935 ppb	96.687 %	105.432 %	94.706 %	105.861 %
Concentration RSD	64.6 %	0.6 %	3.0 %	16.2 %	5.1 %	0.1 %	4.3 %	2.0 %	3.1 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.042 ppb	0.056 ppb	92.668 %	96.783 %
Concentration per Run 1	0.049 ppb	0.064 ppb	90.021 %	92.407 %
Concentration per Run 2	0.040 ppb	0.054 ppb	93.648 %	100.298 %
Concentration per Run 3	0.039 ppb	0.050 ppb	94.335 %	97.642 %
Concentration RSD	12.9 %	12.7 %	2.5 %	4.1 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index: 74
Analysis label: I2430543-03 2008SL
Analysis started at: 6/11/2024 7:52:42 PM
User name ALPHALAB\ICPMSRQ
Rack 1
Vial 9
Comment ng

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	99.885 %	106.863 %	0.015 ppb	20,152.198 ppb	4,261.225 ppb	42.360 ppb	3,533.121 ppb	37,745.160 ppb	100.119 %
Concentration per Run 1	99.530 %	111.765 %	0.019 ppb	19,468.330 ppb	4,131.676 ppb	39.417 ppb	3,405.101 ppb	36,429.295 ppb	94.480 %
Concentration per Run 2	99.910 %	104.167 %	0.014 ppb	20,219.238 ppb	4,374.115 ppb	38.119 ppb	3,532.539 ppb	37,761.244 ppb	95.293 %
Concentration per Run 3	100.215 %	104.657 %	0.013 ppb	20,769.027 ppb	4,277.883 ppb	49.542 ppb	3,661.724 ppb	39,044.940 ppb	110.585 %
Concentration RSD	0.3 %	4.0 %	19.7 %	3.2 %	2.9 %	14.8 %	3.6 %	3.5 %	9.1 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	107.306 %	0.249 ppb	0.380 ppb	150.473 ppb	33.546 ppb	0.117 ppb	2.615 ppb	1.146 ppb	1.248 ppb
Concentration per Run 1	110.105 %	0.244 ppb	0.394 ppb	146.212 ppb	36.255 ppb	0.111 ppb	2.471 ppb	1.128 ppb	1.306 ppb
Concentration per Run 2	107.525 %	0.212 ppb	0.391 ppb	152.362 ppb	29.854 ppb	0.106 ppb	2.652 ppb	1.161 ppb	1.210 ppb
Concentration per Run 3	104.287 %	0.291 ppb	0.355 ppb	152.843 ppb	34.531 ppb	0.133 ppb	2.721 ppb	1.149 ppb	1.227 ppb
Concentration RSD	2.7 %	16.0 %	5.7 %	2.5 %	9.9 %	12.6 %	4.9 %	1.5 %	4.1 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	107.252 %	106.285 %	6.565 ppb	0.070 ppb	362.130 ppb	41.374 ppb	95.044 %	100.225 %	0.003 ppb
Concentration per Run 1	105.442 %	107.928 %	6.407 ppb	0.015 ppb	355.072 ppb	40.638 ppb	96.493 %	99.913 %	0.003 ppb
Concentration per Run 2	108.409 %	104.730 %	6.658 ppb	0.084 ppb	364.550 ppb	41.112 ppb	94.492 %	101.042 %	0.004 ppb
Concentration per Run 3	107.905 %	106.198 %	6.630 ppb	0.112 ppb	366.770 ppb	42.373 ppb	94.146 %	99.721 %	0.001 ppb
Concentration RSD	1.5 %	1.5 %	2.1 %	71.4 %	1.7 %	2.2 %	1.3 %	0.7 %	64.5 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.005 ppb	97.817 %	104.088 %	0.512 ppb	16.994 ppb	98.212 %	102.030 %	96.002 %	104.287 %
Concentration per Run 1	0.004 ppb	97.109 %	104.035 %	0.398 ppb	17.016 ppb	98.022 %	102.267 %	96.710 %	103.656 %
Concentration per Run 2	0.005 ppb	97.265 %	104.484 %	0.519 ppb	16.396 ppb	98.196 %	101.926 %	94.801 %	103.985 %
Concentration per Run 3	0.005 ppb	99.076 %	103.744 %	0.620 ppb	17.570 ppb	98.418 %	101.896 %	96.496 %	105.221 %
Concentration RSD	13.3 %	1.1 %	0.4 %	21.7 %	3.5 %	0.2 %	0.2 %	1.1 %	0.8 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.022 ppb	0.026 ppb	93.098 %	97.336 %
Concentration per Run 1	0.023 ppb	0.024 ppb	92.583 %	96.962 %
Concentration per Run 2	0.022 ppb	0.027 ppb	92.640 %	96.812 %
Concentration per Run 3	0.020 ppb	0.028 ppb	94.072 %	98.233 %
Concentration RSD	8.5 %	7.2 %	0.9 %	0.8 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index: 75
Analysis label: I2430543-04 2008SL
Analysis started at: 6/11/2024 7:57:25 PM
User name ALPHALAB\ICPMSRQ
Rack 1
Vial 10
Comment ng

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	100.951 %	103.677 %	0.019 ppb	11,432.486 ppb	14,241.796 ppb	10.041 ppb	3,471.737 ppb	29,976.289 ppb	105.128 %
Concentration per Run 1	101.231 %	98.284 %	0.021 ppb	12,188.401 ppb	15,042.551 ppb	7.426 ppb	3,543.527 ppb	31,240.648 ppb	94.674 %
Concentration per Run 2	100.572 %	107.353 %	0.017 ppb	10,858.299 ppb	13,648.901 ppb	12.116 ppb	3,341.622 ppb	29,174.904 ppb	109.393 %
Concentration per Run 3	101.052 %	105.392 %	0.019 ppb	11,250.757 ppb	14,033.937 ppb	10.581 ppb	3,530.063 ppb	29,513.314 ppb	111.317 %
Concentration RSD	0.3 %	4.6 %	8.2 %	6.0 %	5.1 %	23.8 %	3.3 %	3.7 %	8.7 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	101.453 %	0.165 ppb	0.055 ppb	6.945 ppb	11.806 ppb	0.065 ppb	3.057 ppb	0.907 ppb	1.830 ppb
Concentration per Run 1	98.577 %	0.197 ppb	0.047 ppb	7.319 ppb	13.022 ppb	0.069 ppb	3.338 ppb	0.913 ppb	1.942 ppb
Concentration per Run 2	102.615 %	0.154 ppb	0.044 ppb	6.753 ppb	10.178 ppb	0.062 ppb	2.945 ppb	0.893 ppb	1.769 ppb
Concentration per Run 3	103.167 %	0.144 ppb	0.075 ppb	6.762 ppb	12.218 ppb	0.064 ppb	2.888 ppb	0.915 ppb	1.778 ppb
Concentration RSD	2.5 %	16.9 %	31.4 %	4.7 %	12.4 %	5.0 %	8.0 %	1.3 %	5.3 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	104.796 %	105.787 %	0.112 ppb	0.316 ppb	205.463 ppb	0.568 ppb	95.747 %	97.826 %	0.001 ppb
Concentration per Run 1	103.615 %	104.725 %	0.117 ppb	0.291 ppb	207.082 ppb	0.569 ppb	94.371 %	95.328 %	0.004 ppb
Concentration per Run 2	104.033 %	105.721 %	0.107 ppb	0.347 ppb	203.715 ppb	0.544 ppb	97.514 %	100.251 %	0.000 ppb
Concentration per Run 3	106.739 %	106.916 %	0.113 ppb	0.312 ppb	205.591 ppb	0.590 ppb	95.356 %	97.900 %	0.001 ppb
Concentration RSD	1.6 %	1.0 %	4.6 %	8.9 %	0.8 %	4.0 %	1.7 %	2.5 %	134.2 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.010 ppb	97.275 %	102.430 %	0.260 ppb	23.695 ppb	100.304 %	102.633 %	97.779 %	102.945 %
Concentration per Run 1	0.011 ppb	98.085 %	97.545 %	0.209 ppb	25.319 ppb	100.894 %	97.842 %	98.238 %	97.787 %
Concentration per Run 2	0.009 ppb	97.464 %	104.225 %	0.248 ppb	22.912 ppb	99.009 %	104.693 %	98.860 %	105.396 %
Concentration per Run 3	0.008 ppb	96.276 %	105.520 %	0.323 ppb	22.854 ppb	101.009 %	105.364 %	96.239 %	105.652 %
Concentration RSD	15.0 %	0.9 %	4.2 %	22.3 %	5.9 %	1.1 %	4.1 %	1.4 %	4.3 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.017 ppb	0.020 ppb	93.087 %	94.576 %
Concentration per Run 1	0.018 ppb	0.022 ppb	91.240 %	89.879 %
Concentration per Run 2	0.016 ppb	0.017 ppb	95.196 %	94.598 %
Concentration per Run 3	0.016 ppb	0.019 ppb	92.826 %	99.253 %
Concentration RSD	6.6 %	12.4 %	2.1 %	5.0 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	76	User name	ALPHALAB\ICPMSRQ	Comment	ng
Analysis label:	I2430543-05 2008SL	Rack	1		
Analysis started at:	6/11/2024 8:02:08 PM	Vial	11		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	98.251 %	97.958 %	0.032 ppb	18,060.512 ppb	23,723.918 ppb	411.635 ppb	6,128.315 ppb	99,130.842 ppb	93.820 %
Concentration per Run 1	97.937 %	91.912 %	0.030 ppb	19,132.020 ppb	25,287.599 ppb	452.253 ppb	6,379.375 ppb	104,113.005 ppb	96.300 %
Concentration per Run 2	98.950 %	97.549 %	0.030 ppb	17,673.269 ppb	23,524.928 ppb	389.848 ppb	6,033.596 ppb	97,065.252 ppb	92.222 %
Concentration per Run 3	97.865 %	104.412 %	0.035 ppb	17,376.247 ppb	22,359.226 ppb	392.803 ppb	5,971.975 ppb	96,214.269 ppb	92.939 %
Concentration RSD	0.6 %	6.4 %	8.8 %	5.2 %	6.2 %	8.6 %	3.6 %	4.4 %	2.3 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	101.862 %	1.478 ppb	0.888 ppb	2,123.531 ppb	3,793.636 ppb	6.352 ppb	3.366 ppb	1.076 ppb	4.167 ppb
Concentration per Run 1	99.111 %	1.586 ppb	1.043 ppb	2,228.722 ppb	4,013.821 ppb	6.920 ppb	3.678 ppb	1.120 ppb	4.494 ppb
Concentration per Run 2	102.917 %	1.347 ppb	0.786 ppb	2,074.574 ppb	3,742.616 ppb	6.039 ppb	3.237 ppb	1.123 ppb	3.986 ppb
Concentration per Run 3	103.558 %	1.501 ppb	0.836 ppb	2,067.297 ppb	3,624.471 ppb	6.096 ppb	3.183 ppb	0.985 ppb	4.020 ppb
Concentration RSD	2.4 %	8.2 %	15.3 %	4.3 %	5.3 %	7.8 %	8.1 %	7.4 %	6.8 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	105.303 %	102.876 %	3.046 ppb	0.281 ppb	582.719 ppb	2.891 ppb	92.198 %	95.156 %	0.003 ppb
Concentration per Run 1	104.032 %	96.202 %	3.271 ppb	0.183 ppb	619.791 ppb	3.049 ppb	92.692 %	89.112 %	0.003 ppb
Concentration per Run 2	106.379 %	105.142 %	2.908 ppb	0.241 ppb	561.856 ppb	2.600 ppb	91.691 %	98.054 %	0.003 ppb
Concentration per Run 3	105.497 %	107.285 %	2.960 ppb	0.420 ppb	566.509 ppb	3.024 ppb	92.210 %	98.302 %	0.003 ppb
Concentration RSD	1.1 %	5.7 %	6.4 %	43.9 %	5.5 %	8.7 %	0.5 %	5.5 %	12.1 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.012 ppb	94.852 %	99.397 %	0.154 ppb	59.673 ppb	95.453 %	98.562 %	94.339 %	100.127 %
Concentration per Run 1	0.017 ppb	93.867 %	93.832 %	0.111 ppb	63.539 ppb	94.238 %	92.893 %	94.462 %	94.060 %
Concentration per Run 2	0.013 ppb	96.836 %	101.576 %	0.163 ppb	57.222 ppb	94.572 %	100.659 %	95.040 %	103.096 %
Concentration per Run 3	0.006 ppb	93.854 %	102.783 %	0.187 ppb	58.259 ppb	97.549 %	102.136 %	93.515 %	103.227 %
Concentration RSD	44.0 %	1.8 %	4.9 %	25.3 %	5.7 %	1.9 %	5.0 %	0.8 %	5.2 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.025 ppb	0.223 ppb	90.431 %	91.013 %
Concentration per Run 1	0.026 ppb	0.234 ppb	90.805 %	86.284 %
Concentration per Run 2	0.024 ppb	0.216 ppb	91.537 %	92.854 %
Concentration per Run 3	0.025 ppb	0.218 ppb	88.952 %	93.902 %
Concentration RSD	4.2 %	4.7 %	1.5 %	4.5 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index: 77 User name ALPHALAB\ICPMSRQ Comment ng
Analysis label: I2430543-06 2008SL Rack 1
Analysis started at: 6/11/2024 8:06:52 PM Vial 12

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	97.836 %	97.141 %	0.057 ppb	15,848.618 ppb	16,290.450 ppb	241.183 ppb	5,384.466 ppb	72,303.464 ppb	99.609 %
Concentration per Run 1	96.866 %	92.402 %	0.057 ppb	16,253.554 ppb	16,853.148 ppb	235.966 ppb	5,569.971 ppb	75,346.299 ppb	95.635 %
Concentration per Run 2	98.636 %	99.265 %	0.059 ppb	16,481.823 ppb	16,000.740 ppb	232.582 ppb	5,282.360 ppb	71,506.670 ppb	110.522 %
Concentration per Run 3	98.006 %	99.755 %	0.056 ppb	14,810.476 ppb	16,017.462 ppb	255.001 ppb	5,301.067 ppb	70,057.423 ppb	92.670 %
Concentration RSD	0.9 %	4.2 %	2.9 %	5.7 %	3.0 %	5.0 %	3.0 %	3.8 %	9.6 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	102.995 %	0.591 ppb	0.338 ppb	1,182.579 ppb	2,645.270 ppb	0.225 ppb	0.573 ppb	0.985 ppb	2.576 ppb
Concentration per Run 1	101.726 %	0.568 ppb	0.353 ppb	1,234.199 ppb	2,792.856 ppb	0.244 ppb	0.554 ppb	1.018 ppb	2.717 ppb
Concentration per Run 2	102.135 %	0.630 ppb	0.310 ppb	1,178.508 ppb	2,598.365 ppb	0.222 ppb	0.642 ppb	0.995 ppb	2.578 ppb
Concentration per Run 3	105.123 %	0.576 ppb	0.350 ppb	1,135.031 ppb	2,544.588 ppb	0.208 ppb	0.523 ppb	0.941 ppb	2.434 ppb
Concentration RSD	1.8 %	5.7 %	7.2 %	4.2 %	4.9 %	8.2 %	10.7 %	4.0 %	5.5 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	104.811 %	106.041 %	15.589 ppb	0.163 ppb	448.063 ppb	2.461 ppb	93.905 %	96.362 %	0.002 ppb
Concentration per Run 1	103.098 %	99.432 %	16.748 ppb	0.263 ppb	478.603 ppb	2.432 ppb	94.092 %	90.814 %	0.003 ppb
Concentration per Run 2	104.362 %	108.892 %	15.094 ppb	0.051 ppb	437.302 ppb	2.586 ppb	93.204 %	97.878 %	0.002 ppb
Concentration per Run 3	106.973 %	109.800 %	14.926 ppb	0.175 ppb	428.283 ppb	2.364 ppb	94.419 %	100.394 %	0.002 ppb
Concentration RSD	1.9 %	5.4 %	6.5 %	65.4 %	6.0 %	4.6 %	0.7 %	5.2 %	31.5 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.003 ppb	94.636 %	100.267 %	0.089 ppb	22.982 ppb	95.315 %	97.796 %	94.290 %	100.420 %
Concentration per Run 1	0.006 ppb	94.707 %	95.063 %	0.055 ppb	23.431 ppb	95.673 %	92.874 %	95.206 %	95.785 %
Concentration per Run 2	0.002 ppb	95.807 %	102.737 %	0.098 ppb	22.807 ppb	95.034 %	101.015 %	93.488 %	101.961 %
Concentration per Run 3	0.002 ppb	93.394 %	103.000 %	0.113 ppb	22.708 ppb	95.237 %	99.500 %	94.176 %	103.513 %
Concentration RSD	71.1 %	1.3 %	4.5 %	33.7 %	1.7 %	0.3 %	4.4 %	0.9 %	4.1 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.013 ppb	0.410 ppb	89.697 %	92.126 %
Concentration per Run 1	0.011 ppb	0.446 ppb	89.322 %	85.437 %
Concentration per Run 2	0.015 ppb	0.418 ppb	90.593 %	92.718 %
Concentration per Run 3	0.014 ppb	0.368 ppb	89.176 %	98.223 %
Concentration RSD	15.0 %	9.6 %	0.9 %	7.0 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	78	User name	ALPHALAB\ICPMSRQ	Comment	ng
Analysis label:	I2430543-07 2008SL	Rack	1		
Analysis started at:	6/11/2024 8:11:36 PM	Vial	13		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	96.385 %	104.820 %	0.025 ppb	27,047.081 ppb	26,155.321 ppb	8.307 ppb	8,502.607 ppb	95,498.192 ppb	97.401 %
Concentration per Run 1	96.028 %	103.677 %	0.034 ppb	27,725.586 ppb	26,629.741 ppb	9.116 ppb	8,623.978 ppb	97,425.945 ppb	99.698 %
Concentration per Run 2	96.174 %	105.637 %	0.023 ppb	26,436.781 ppb	25,731.095 ppb	8.308 ppb	8,407.793 ppb	96,215.066 ppb	96.671 %
Concentration per Run 3	96.954 %	105.147 %	0.019 ppb	26,978.877 ppb	26,105.127 ppb	7.498 ppb	8,476.049 ppb	92,853.565 ppb	95.834 %
Concentration RSD	0.5 %	1.0 %	30.6 %	2.4 %	1.7 %	9.7 %	1.3 %	2.5 %	2.1 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	109.020 %	0.379 ppb	0.058 ppb	2,832.187 ppb	13,058.523 ppb	0.906 ppb	5.842 ppb	0.533 ppb	3.500 ppb
Concentration per Run 1	109.500 %	0.398 ppb	0.059 ppb	2,819.351 ppb	12,918.550 ppb	0.895 ppb	5.718 ppb	0.518 ppb	3.378 ppb
Concentration per Run 2	108.272 %	0.344 ppb	0.053 ppb	2,856.678 ppb	13,370.786 ppb	0.912 ppb	5.834 ppb	0.559 ppb	3.526 ppb
Concentration per Run 3	109.286 %	0.394 ppb	0.060 ppb	2,820.531 ppb	12,886.232 ppb	0.911 ppb	5.974 ppb	0.523 ppb	3.595 ppb
Concentration RSD	0.6 %	7.9 %	6.8 %	0.7 %	2.1 %	1.1 %	2.2 %	4.1 %	3.2 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	106.157 %	107.694 %	134.135 ppb	0.090 ppb	548.232 ppb	44.413 ppb	91.237 %	97.534 %	0.001 ppb
Concentration per Run 1	105.320 %	109.637 %	133.160 ppb	0.043 ppb	543.255 ppb	45.101 ppb	94.379 %	97.350 %	0.000 ppb
Concentration per Run 2	106.537 %	107.880 %	133.558 ppb	0.178 ppb	548.009 ppb	43.542 ppb	87.398 %	96.957 %	0.001 ppb
Concentration per Run 3	106.612 %	105.566 %	135.687 ppb	0.049 ppb	553.431 ppb	44.597 ppb	91.932 %	98.295 %	0.001 ppb
Concentration RSD	0.7 %	1.9 %	1.0 %	85.3 %	0.9 %	1.8 %	3.9 %	0.7 %	89.0 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.009 ppb	94.237 %	101.758 %	1.091 ppb	93.657 ppb	95.503 %	101.396 %	94.955 %	103.795 %
Concentration per Run 1	0.010 ppb	94.060 %	101.752 %	1.102 ppb	94.451 ppb	94.346 %	100.907 %	95.645 %	100.603 %
Concentration per Run 2	0.008 ppb	93.184 %	100.966 %	1.063 ppb	94.136 ppb	97.217 %	101.445 %	94.742 %	105.743 %
Concentration per Run 3	0.010 ppb	95.466 %	102.555 %	1.109 ppb	92.385 ppb	94.945 %	101.837 %	94.477 %	105.040 %
Concentration RSD	13.9 %	1.2 %	0.8 %	2.3 %	1.2 %	1.6 %	0.5 %	0.6 %	2.7 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.008 ppb	0.022 ppb	89.353 %	94.171 %
Concentration per Run 1	0.008 ppb	0.020 ppb	90.266 %	93.109 %
Concentration per Run 2	0.009 ppb	0.023 ppb	88.685 %	94.626 %
Concentration per Run 3	0.008 ppb	0.023 ppb	89.108 %	94.776 %
Concentration RSD	5.8 %	8.1 %	0.9 %	1.0 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index: 79 User name ALPHALAB\ICPMSRQ Comment ng
Analysis label: I2430543-08 2008SL Rack 1
Analysis started at: 6/11/2024 8:16:15 PM Vial 14

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	97.357 %	97.631 %	0.020 ppb	29,053.238 ppb	8,819.286 ppb	3.799 ppb	6,341.857 ppb	48,452.090 ppb	102.896 %
Concentration per Run 1	96.608 %	95.098 %	0.023 ppb	30,946.430 ppb	9,334.049 ppb	7.750 ppb	6,691.226 ppb	52,490.427 ppb	110.037 %
Concentration per Run 2	97.579 %	97.794 %	0.020 ppb	28,078.204 ppb	8,447.892 ppb	2.272 ppb	6,231.655 ppb	46,621.641 ppb	108.428 %
Concentration per Run 3	97.885 %	100.000 %	0.017 ppb	28,135.082 ppb	8,675.915 ppb	1.376 ppb	6,102.692 ppb	46,244.202 ppb	90.222 %
Concentration RSD	0.7 %	2.5 %	13.2 %	5.6 %	5.2 %	90.8 %	4.9 %	7.2 %	10.7 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	99.484 %	0.217 ppb	0.035 ppb	272.615 ppb	28.491 ppb	0.173 ppb	0.652 ppb	1.491 ppb	3.342 ppb
Concentration per Run 1	94.610 %	0.232 ppb	0.048 ppb	296.906 ppb	32.647 ppb	0.215 ppb	0.781 ppb	1.744 ppb	3.605 ppb
Concentration per Run 2	100.925 %	0.189 ppb	0.038 ppb	261.937 ppb	25.158 ppb	0.141 ppb	0.612 ppb	1.460 ppb	3.144 ppb
Concentration per Run 3	102.917 %	0.230 ppb	0.020 ppb	259.004 ppb	27.668 ppb	0.164 ppb	0.562 ppb	1.267 ppb	3.278 ppb
Concentration RSD	4.4 %	11.1 %	40.0 %	7.7 %	13.4 %	22.0 %	17.6 %	16.1 %	7.1 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	105.791 %	107.105 %	4.767 ppb	0.028 ppb	191.612 ppb	22.070 ppb	91.518 %	94.987 %	0.000 ppb
Concentration per Run 1	104.235 %	96.647 %	5.360 ppb	0.017 ppb	206.191 ppb	23.997 ppb	86.532 %	91.844 %	0.000 ppb
Concentration per Run 2	105.948 %	112.765 %	4.484 ppb	0.083 ppb	186.695 ppb	21.161 ppb	94.016 %	95.549 %	0.000 ppb
Concentration per Run 3	107.191 %	111.903 %	4.458 ppb	-0.016 ppb	181.949 ppb	21.052 ppb	94.007 %	97.567 %	0.000 ppb
Concentration RSD	1.4 %	8.5 %	10.8 %	178.0 %	6.7 %	7.6 %	4.7 %	3.1 %	1,636.8 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.010 ppb	95.552 %	99.768 %	0.059 ppb	14.939 ppb	96.964 %	98.279 %	97.151 %	100.252 %
Concentration per Run 1	0.012 ppb	95.753 %	92.845 %	0.032 ppb	15.819 ppb	98.109 %	90.787 %	98.229 %	92.075 %
Concentration per Run 2	0.006 ppb	96.061 %	101.313 %	0.066 ppb	14.702 ppb	96.476 %	101.876 %	97.157 %	103.461 %
Concentration per Run 3	0.011 ppb	94.843 %	105.146 %	0.080 ppb	14.296 ppb	96.305 %	102.175 %	96.066 %	105.219 %
Concentration RSD	29.4 %	0.7 %	6.3 %	42.0 %	5.3 %	1.0 %	6.6 %	1.1 %	7.1 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.011 ppb	0.019 ppb	90.522 %	91.307 %
Concentration per Run 1	0.013 ppb	0.022 ppb	90.618 %	85.632 %
Concentration per Run 2	0.011 ppb	0.017 ppb	91.210 %	94.318 %
Concentration per Run 3	0.010 ppb	0.018 ppb	89.738 %	93.969 %
Concentration RSD	13.3 %	12.7 %	0.8 %	5.4 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index: 80 User name ALPHALAB\ICPMSRQ Comment ng
Analysis label: I2430543-09 2008SL Rack 1
Analysis started at: 6/11/2024 8:20:55 PM Vial 15

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	102.465 %	96.814 %	0.009 ppb	2,381.917 ppb	1,662.255 ppb	15.394 ppb	2,005.640 ppb	7,801.769 ppb	102.435 %
Concentration per Run 1	103.530 %	96.078 %	0.006 ppb	2,457.004 ppb	1,712.355 ppb	10.035 ppb	2,049.111 ppb	8,141.942 ppb	101.661 %
Concentration per Run 2	101.684 %	94.363 %	0.014 ppb	2,419.687 ppb	1,706.718 ppb	18.555 ppb	2,035.772 ppb	7,792.593 ppb	103.035 %
Concentration per Run 3	102.180 %	100.000 %	0.008 ppb	2,269.061 ppb	1,567.691 ppb	17.591 ppb	1,932.037 ppb	7,470.773 ppb	102.610 %
Concentration RSD	0.9 %	3.0 %	44.4 %	4.2 %	4.9 %	30.3 %	3.2 %	4.3 %	0.7 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	102.449 %	0.292 ppb	0.081 ppb	189.151 ppb	51.247 ppb	0.248 ppb	1.322 ppb	3.061 ppb	3.970 ppb
Concentration per Run 1	99.644 %	0.314 ppb	0.108 ppb	198.854 ppb	54.639 ppb	0.256 ppb	1.245 ppb	3.332 ppb	4.125 ppb
Concentration per Run 2	101.565 %	0.265 ppb	0.066 ppb	186.576 ppb	48.890 ppb	0.233 ppb	1.382 ppb	3.005 ppb	3.979 ppb
Concentration per Run 3	106.137 %	0.297 ppb	0.069 ppb	182.022 ppb	50.211 ppb	0.256 ppb	1.339 ppb	2.846 ppb	3.807 ppb
Concentration RSD	3.3 %	8.4 %	28.9 %	4.6 %	5.9 %	5.5 %	5.3 %	8.1 %	4.0 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	105.710 %	107.435 %	1.215 ppb	0.124 ppb	36.339 ppb	0.503 ppb	100.553 %	101.543 %	0.002 ppb
Concentration per Run 1	104.994 %	103.353 %	1.261 ppb	0.182 ppb	38.325 ppb	0.578 ppb	101.105 %	94.336 %	0.002 ppb
Concentration per Run 2	106.480 %	108.657 %	1.218 ppb	0.143 ppb	35.193 ppb	0.456 ppb	99.452 %	104.572 %	0.003 ppb
Concentration per Run 3	105.656 %	110.296 %	1.166 ppb	0.048 ppb	35.499 ppb	0.475 ppb	101.101 %	105.722 %	0.002 ppb
Concentration RSD	0.7 %	3.4 %	3.9 %	55.6 %	4.8 %	13.1 %	0.9 %	6.2 %	34.5 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.006 ppb	100.719 %	105.991 %	0.250 ppb	7.793 ppb	101.186 %	101.032 %	100.555 %	104.742 %
Concentration per Run 1	0.001 ppb	102.257 %	99.922 %	0.275 ppb	8.196 ppb	101.361 %	95.598 %	101.480 %	99.054 %
Concentration per Run 2	0.010 ppb	99.897 %	107.671 %	0.231 ppb	7.497 ppb	102.057 %	103.790 %	101.775 %	107.656 %
Concentration per Run 3	0.007 ppb	100.002 %	110.379 %	0.245 ppb	7.686 ppb	100.141 %	103.706 %	98.410 %	107.516 %
Concentration RSD	80.6 %	1.3 %	5.1 %	9.1 %	4.6 %	1.0 %	4.7 %	1.9 %	4.7 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.016 ppb	0.071 ppb	97.370 %	98.108 %
Concentration per Run 1	0.013 ppb	0.075 ppb	98.273 %	92.525 %
Concentration per Run 2	0.017 ppb	0.068 ppb	96.390 %	99.317 %
Concentration per Run 3	0.017 ppb	0.070 ppb	97.448 %	102.482 %
Concentration RSD	15.7 %	5.3 %	1.0 %	5.2 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	81	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	6/11/2024 8:25:36 PM	Vial	9		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	97.742 %	94.935 %	61.511 ppb	6,341.526 ppb	6,375.056 ppb	64.535 ppb	6,399.820 ppb	6,607.750 ppb	102.185 %
Concentration per Run 1	97.615 %	86.029 %	61.944 ppb	6,857.163 ppb	6,878.929 ppb	62.624 ppb	6,761.336 ppb	6,888.630 ppb	99.674 %
Concentration per Run 2	97.408 %	104.167 %	61.225 ppb	5,952.783 ppb	6,079.632 ppb	63.643 ppb	6,085.706 ppb	6,718.039 ppb	103.537 %
Concentration per Run 3	98.201 %	94.608 %	61.362 ppb	6,214.634 ppb	6,166.606 ppb	67.339 ppb	6,352.419 ppb	6,216.581 ppb	103.344 %
Recovery Percentage 1			102.518 %	105.692 %	106.251 %	107.559 %	106.664 %	110.129 %	
Concentration RSD	0.4 %	9.6 %	0.6 %	7.3 %	6.9 %	3.8 %	5.3 %	5.3 %	2.1 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	104.311 %	63.383 ppb	61.472 ppb	63.552 ppb	6,335.734 ppb	61.850 ppb	61.377 ppb	61.244 ppb	62.735 ppb
Concentration per Run 1	102.633 %	65.835 ppb	64.132 ppb	65.922 ppb	6,758.281 ppb	65.634 ppb	65.241 ppb	63.311 ppb	65.526 ppb
Concentration per Run 2	105.479 %	61.434 ppb	58.794 ppb	61.720 ppb	6,081.251 ppb	59.643 ppb	59.029 ppb	58.202 ppb	61.308 ppb
Concentration per Run 3	104.821 %	62.879 ppb	61.490 ppb	63.013 ppb	6,167.671 ppb	60.273 ppb	59.861 ppb	62.219 ppb	61.372 ppb
Recovery Percentage 1		105.638 %	102.454 %	105.919 %	105.596 %	103.083 %	102.295 %	102.073 %	104.559 %
Concentration RSD	1.4 %	3.5 %	4.3 %	3.4 %	5.8 %	5.3 %	5.5 %	4.4 %	3.9 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	100.873 %	104.489 %	59.893 ppb	61.493 ppb	63.597 ppb	60.288 ppb	97.913 %	97.578 %	61.534 ppb
Concentration per Run 1	100.432 %	99.829 %	61.936 ppb	64.167 ppb	66.027 ppb	63.316 ppb	97.241 %	93.546 %	64.659 ppb
Concentration per Run 2	101.207 %	108.535 %	58.244 ppb	57.446 ppb	61.407 ppb	59.982 ppb	97.528 %	99.315 %	60.561 ppb
Concentration per Run 3	100.979 %	105.102 %	59.501 ppb	62.865 ppb	63.357 ppb	57.567 ppb	98.970 %	99.873 %	59.381 ppb
Recovery Percentage 1			99.822 %	102.488 %	105.995 %	100.481 %			102.556 %
Concentration RSD	0.4 %	4.2 %	3.1 %	5.8 %	3.6 %	4.8 %	0.9 %	3.6 %	4.5 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	61.471 ppb	96.329 %	102.513 %	58.075 ppb	61.373 ppb	97.612 %	99.587 %	96.566 %	100.053 %
Concentration per Run 1	65.310 ppb	95.790 %	98.359 %	60.296 ppb	65.364 ppb	98.864 %	93.690 %	95.490 %	94.371 %
Concentration per Run 2	60.053 ppb	97.141 %	103.044 %	57.823 ppb	60.454 ppb	97.697 %	102.281 %	96.503 %	102.683 %
Concentration per Run 3	59.050 ppb	96.056 %	106.134 %	56.105 ppb	58.300 ppb	96.274 %	102.788 %	97.707 %	103.105 %
Recovery Percentage 1	102.452 %			96.791 %	102.288 %				
Concentration RSD	5.5 %	0.7 %	3.8 %	3.6 %	5.9 %	1.3 %	5.1 %	1.1 %	4.9 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	61.406 ppb	59.040 ppb	93.913 %	95.913 %
Concentration per Run 1	62.564 ppb	62.219 ppb	91.699 %	92.225 %
Concentration per Run 2	61.027 ppb	57.635 ppb	93.479 %	97.704 %
Concentration per Run 3	60.627 ppb	57.267 ppb	96.560 %	97.809 %
Recovery Percentage 1	102.343 %	98.401 %		
Concentration RSD	1.7 %	4.7 %	2.6 %	3.3 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	82	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/11/2024 8:30:21 PM	Vial	10		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	99.979 %	98.529 %	0.024 ppb	2.409 ppb	0.459 ppb	0.469 ppb	18.169 ppb	5.922 ppb	99.463 %
Concentration per Run 1	100.875 %	91.421 %	0.022 ppb	3.827 ppb	-0.097 ppb	1.117 ppb	20.993 ppb	3.708 ppb	99.128 %
Concentration per Run 2	99.863 %	101.961 %	0.029 ppb	2.329 ppb	1.504 ppb	-0.686 ppb	15.064 ppb	3.452 ppb	99.486 %
Concentration per Run 3	99.199 %	102.206 %	0.021 ppb	1.072 ppb	-0.029 ppb	0.976 ppb	18.448 ppb	10.605 ppb	99.774 %
Recovery Percentage 1			4.865 %	2.409 %	0.656 %	4.690 %	18.169 %	5.922 %	
Concentration RSD	0.8 %	6.2 %	18.1 %	57.2 %	197.2 %	213.7 %	16.4 %	68.5 %	0.3 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	98.529 %	0.009 ppb	-0.017 ppb	0.237 ppb	5.193 ppb	0.010 ppb	0.047 ppb	0.017 ppb	0.451 ppb
Concentration per Run 1	97.154 %	0.019 ppb	-0.011 ppb	0.274 ppb	4.576 ppb	0.014 ppb	0.049 ppb	0.029 ppb	0.530 ppb
Concentration per Run 2	98.666 %	0.014 ppb	-0.013 ppb	0.217 ppb	6.540 ppb	0.008 ppb	0.037 ppb	0.006 ppb	0.456 ppb
Concentration per Run 3	99.769 %	-0.005 ppb	-0.027 ppb	0.219 ppb	4.465 ppb	0.008 ppb	0.054 ppb	0.016 ppb	0.368 ppb
Recovery Percentage 1		0.184 %	-1.691 %	23.659 %	10.387 %	2.023 %	2.351 %	1.729 %	9.026 %
Concentration RSD	1.3 %	136.9 %	54.2 %	13.8 %	22.5 %	36.2 %	18.5 %	67.5 %	17.9 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	99.928 %	104.774 %	0.027 ppb	0.079 ppb	0.040 ppb	0.176 ppb	100.758 %	101.022 %	0.012 ppb
Concentration per Run 1	99.145 %	101.280 %	0.035 ppb	0.077 ppb	0.055 ppb	0.131 ppb	101.264 %	96.829 %	0.015 ppb
Concentration per Run 2	100.276 %	103.444 %	0.016 ppb	0.111 ppb	0.038 ppb	0.209 ppb	99.857 %	102.035 %	0.009 ppb
Concentration per Run 3	100.364 %	109.599 %	0.032 ppb	0.048 ppb	0.028 ppb	0.186 ppb	101.152 %	104.203 %	0.011 ppb
Recovery Percentage 1			5.493 %	1.571 %	8.090 %	8.779 %			2.965 %
Concentration RSD	0.7 %	4.1 %	37.6 %	39.8 %	34.1 %	22.8 %	0.8 %	3.8 %	26.0 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.005 ppb	98.876 %	104.958 %	0.673 ppb	0.034 ppb	99.247 %	99.477 %	98.013 %	102.598 %
Concentration per Run 1	0.011 ppb	97.570 %	98.095 %	0.614 ppb	0.050 ppb	102.356 %	94.707 %	98.097 %	95.808 %
Concentration per Run 2	0.003 ppb	99.685 %	107.570 %	0.676 ppb	0.040 ppb	97.169 %	101.694 %	97.224 %	103.322 %
Concentration per Run 3	0.001 ppb	99.374 %	109.208 %	0.728 ppb	0.014 ppb	98.216 %	102.030 %	98.718 %	108.665 %
Recovery Percentage 1				16.815 %	6.887 %				
Concentration RSD	113.9 %	1.2 %	5.7 %	8.5 %	53.6 %	2.8 %	4.2 %	0.8 %	6.3 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.136 ppb	0.012 ppb	96.671 %	100.197 %
Concentration per Run 1	0.149 ppb	0.014 ppb	95.981 %	93.369 %
Concentration per Run 2	0.141 ppb	0.012 ppb	96.533 %	100.665 %
Concentration per Run 3	0.119 ppb	0.010 ppb	97.499 %	106.558 %
Recovery Percentage 1	13.619 %	1.191 %		
Concentration RSD	11.2 %	17.3 %	0.8 %	6.6 %

Analysis index:	83	User name	ALPHALAB\ICPMSRQ	Comment	No exposure
Analysis label:	aborted	Rack	1		
Analysis started at:	6/11/2024 8:35:07 PM	Vial	56		

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	84	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1932106-1 6020SL	Rack	1		
Analysis started at:	6/11/2024 8:41:37 PM	Vial	56		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	102.932 %	103.431 %	0.008 ppb	-2.691 ppb	3.087 ppb	4.113 ppb	7.012 ppb	52.379 ppb	100.267 %
Concentration per Run 1	103.652 %	106.618 %	0.012 ppb	-3.149 ppb	3.637 ppb	4.505 ppb	8.847 ppb	69.503 ppb	105.157 %
Concentration per Run 2	102.359 %	104.657 %	0.005 ppb	-3.243 ppb	1.900 ppb	4.656 ppb	0.780 ppb	26.805 ppb	104.015 %
Concentration per Run 3	102.785 %	99.020 %	0.007 ppb	-1.680 ppb	3.723 ppb	3.179 ppb	11.408 ppb	60.829 ppb	91.629 %
Concentration RSD	0.6 %	3.8 %	42.1 %	32.6 %	33.3 %	19.8 %	79.1 %	43.1 %	7.5 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	110.645 %	0.009 ppb	0.050 ppb	0.196 ppb	13.696 ppb	0.004 ppb	-0.003 ppb	0.090 ppb	0.904 ppb
Concentration per Run 1	103.220 %	0.004 ppb	0.102 ppb	0.234 ppb	14.475 ppb	0.003 ppb	0.005 ppb	0.103 ppb	1.116 ppb
Concentration per Run 2	113.343 %	0.021 ppb	0.036 ppb	0.194 ppb	14.033 ppb	0.004 ppb	0.006 ppb	0.062 ppb	0.732 ppb
Concentration per Run 3	115.371 %	0.001 ppb	0.011 ppb	0.159 ppb	12.582 ppb	0.005 ppb	-0.020 ppb	0.105 ppb	0.865 ppb
Concentration RSD	5.9 %	126.1 %	94.3 %	19.1 %	7.2 %	22.1 %	490.1 %	27.0 %	21.6 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	100.246 %	109.170 %	0.042 ppb	0.000 ppb	0.036 ppb	0.033 ppb	102.610 %	103.812 %	0.001 ppb
Concentration per Run 1	100.349 %	103.380 %	0.044 ppb	0.012 ppb	0.066 ppb	0.041 ppb	103.136 %	96.539 %	0.000 ppb
Concentration per Run 2	100.213 %	117.936 %	0.081 ppb	-0.015 ppb	0.004 ppb	0.025 ppb	100.884 %	111.927 %	0.002 ppb
Concentration per Run 3	100.175 %	106.192 %	0.001 ppb	0.005 ppb	0.039 ppb	0.033 ppb	103.810 %	102.971 %	0.000 ppb
Concentration RSD	0.1 %	7.1 %	95.2 %	3,801.0 %	84.9 %	24.6 %	1.5 %	7.4 %	110.8 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.000 ppb	101.086 %	107.919 %	0.154 ppb	0.108 ppb	98.826 %	102.362 %	98.079 %	105.083 %
Concentration per Run 1	0.000 ppb	101.975 %	97.233 %	0.158 ppb	0.102 ppb	99.187 %	91.719 %	97.303 %	97.228 %
Concentration per Run 2	0.002 ppb	100.113 %	115.668 %	0.142 ppb	0.110 ppb	96.721 %	111.383 %	99.881 %	111.275 %
Concentration per Run 3	0.000 ppb	101.169 %	110.855 %	0.161 ppb	0.112 ppb	100.570 %	103.984 %	97.052 %	106.747 %
Concentration RSD	439.8 %	0.9 %	8.9 %	6.8 %	5.1 %	2.0 %	9.7 %	1.6 %	6.8 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.033 ppb	0.011 ppb	99.191 %	118.222 %
Concentration per Run 1	0.035 ppb	0.013 ppb	99.109 %	94.616 %
Concentration per Run 2	0.036 ppb	0.006 ppb	98.909 %	156.858 %
Concentration per Run 3	0.029 ppb	0.013 ppb	99.555 %	103.191 %
Concentration RSD	10.3 %	40.1 %	0.3 %	28.5 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index: 85 User name ALPHALAB\ICPMSRQ Comment rr mg k
Analysis label: L2430219-06 6020SL Rack 2
Analysis started at: 6/11/2024 8:46:18 PM Vial 23

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	95.302 %	96.242 %	0.012 ppb	31,027.774 ppb	22,429.538 ppb	9.954 ppb	36,604.099 ppb	146,054.520 ppb	96.679 %
Concentration per Run 1	95.496 %	97.549 %	0.010 ppb	31,443.718 ppb	23,099.191 ppb	9.835 ppb	37,971.406 ppb	152,203.814 ppb	84.631 %
Concentration per Run 2	95.414 %	96.078 %	0.013 ppb	30,566.182 ppb	22,279.477 ppb	10.509 ppb	36,053.760 ppb	145,152.564 ppb	101.884 %
Concentration per Run 3	94.996 %	95.098 %	0.013 ppb	31,073.421 ppb	21,909.946 ppb	9.517 ppb	35,787.131 ppb	140,807.182 ppb	103.520 %
Concentration RSD	0.3 %	1.3 %	12.6 %	1.4 %	2.7 %	5.1 %	3.3 %	3.9 %	10.8 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	98.506 %	0.470 ppb	1.033 ppb	4,719.283 ppb	23.992 ppb	0.550 ppb	0.802 ppb	1.180 ppb	0.531 ppb
Concentration per Run 1	94.574 %	0.562 ppb	1.067 ppb	5,008.626 ppb	25.137 ppb	0.547 ppb	0.804 ppb	1.284 ppb	0.588 ppb
Concentration per Run 2	98.933 %	0.409 ppb	1.062 ppb	4,606.593 ppb	24.323 ppb	0.560 ppb	0.852 ppb	1.078 ppb	0.512 ppb
Concentration per Run 3	102.010 %	0.439 ppb	0.971 ppb	4,542.630 ppb	22.515 ppb	0.544 ppb	0.751 ppb	1.179 ppb	0.494 ppb
Concentration RSD	3.8 %	17.2 %	5.2 %	5.4 %	5.6 %	1.5 %	6.3 %	8.7 %	9.4 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	104.392 %	103.509 %	0.283 ppb	0.353 ppb	216.516 ppb	0.192 ppb	87.062 %	92.059 %	0.001 ppb
Concentration per Run 1	102.432 %	98.168 %	0.311 ppb	0.265 ppb	229.389 ppb	0.211 ppb	86.196 %	88.409 %	0.001 ppb
Concentration per Run 2	106.787 %	105.898 %	0.354 ppb	0.397 ppb	210.667 ppb	0.181 ppb	86.673 %	92.611 %	0.001 ppb
Concentration per Run 3	103.957 %	106.461 %	0.183 ppb	0.399 ppb	209.493 ppb	0.185 ppb	88.317 %	95.158 %	0.000 ppb
Concentration RSD	2.1 %	4.5 %	31.4 %	21.8 %	5.2 %	8.5 %	1.3 %	3.7 %	60.8 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.070 ppb	92.220 %	95.276 %	0.141 ppb	66.136 ppb	94.771 %	96.016 %	94.116 %	100.110 %
Concentration per Run 1	0.097 ppb	91.499 %	89.301 %	0.137 ppb	70.916 ppb	95.404 %	89.527 %	93.193 %	94.136 %
Concentration per Run 2	0.067 ppb	92.048 %	97.534 %	0.147 ppb	65.318 ppb	94.155 %	97.952 %	95.762 %	101.316 %
Concentration per Run 3	0.047 ppb	93.115 %	98.993 %	0.139 ppb	62.174 ppb	94.753 %	100.571 %	93.393 %	104.879 %
Concentration RSD	36.0 %	0.9 %	5.5 %	3.7 %	6.7 %	0.7 %	6.0 %	1.5 %	5.5 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.122 ppb	0.019 ppb	85.534 %	86.595 %
Concentration per Run 1	0.120 ppb	0.021 ppb	85.087 %	85.347 %
Concentration per Run 2	0.124 ppb	0.020 ppb	86.022 %	86.079 %
Concentration per Run 3	0.123 ppb	0.018 ppb	85.495 %	88.357 %
Concentration RSD	2.0 %	8.7 %	0.5 %	1.8 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	86	User name	ALPHALAB\ICPMSRQ	Comment	ng, trip blank
Analysis label:	I2428965-15 6020TL	Rack	1		
Analysis started at:	6/11/2024 8:51:00 PM	Vial	37		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	102.160 %	104.167 %	0.007 ppb	71.802 ppb	4.477 ppb	2.441 ppb	12.687 ppb	21.580 ppb	101.204 %
Concentration per Run 1	102.754 %	101.471 %	0.005 ppb	74.944 ppb	6.200 ppb	2.638 ppb	17.374 ppb	24.621 ppb	100.112 %
Concentration per Run 2	101.614 %	112.500 %	0.008 ppb	66.245 ppb	3.365 ppb	2.048 ppb	14.717 ppb	24.044 ppb	101.744 %
Concentration per Run 3	102.112 %	98.529 %	0.007 ppb	74.216 ppb	3.866 ppb	2.638 ppb	5.969 ppb	16.076 ppb	101.757 %
Concentration RSD	0.6 %	7.1 %	23.3 %	6.7 %	33.8 %	14.0 %	47.0 %	22.1 %	0.9 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	101.678 %	0.035 ppb	-0.006 ppb	0.913 ppb	3.583 ppb	0.005 ppb	0.161 ppb	0.081 ppb	0.466 ppb
Concentration per Run 1	100.534 %	0.036 ppb	0.007 ppb	1.054 ppb	3.465 ppb	0.008 ppb	0.167 ppb	0.087 ppb	0.524 ppb
Concentration per Run 2	101.459 %	0.021 ppb	-0.007 ppb	0.903 ppb	3.435 ppb	0.002 ppb	0.189 ppb	0.092 ppb	0.479 ppb
Concentration per Run 3	103.042 %	0.047 ppb	-0.018 ppb	0.784 ppb	3.850 ppb	0.004 ppb	0.126 ppb	0.063 ppb	0.395 ppb
Concentration RSD	1.2 %	36.9 %	210.6 %	14.8 %	6.5 %	61.4 %	19.9 %	19.5 %	14.1 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	102.517 %	106.510 %	-0.040 ppb	0.022 ppb	0.470 ppb	0.020 ppb	99.967 %	102.899 %	0.001 ppb
Concentration per Run 1	103.047 %	102.956 %	-0.075 ppb	-0.020 ppb	0.468 ppb	0.023 ppb	101.063 %	99.648 %	0.001 ppb
Concentration per Run 2	102.201 %	107.708 %	-0.022 ppb	0.106 ppb	0.455 ppb	0.033 ppb	100.189 %	103.591 %	0.001 ppb
Concentration per Run 3	102.303 %	108.865 %	-0.021 ppb	-0.020 ppb	0.489 ppb	0.005 ppb	98.651 %	105.456 %	0.000 ppb
Concentration RSD	0.5 %	2.9 %	77.4 %	330.7 %	3.6 %	69.5 %	1.2 %	2.9 %	62.4 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.001 ppb	101.201 %	103.409 %	0.043 ppb	0.701 ppb	98.638 %	101.521 %	97.022 %	103.427 %
Concentration per Run 1	0.002 ppb	103.044 %	98.149 %	0.025 ppb	0.738 ppb	100.123 %	95.493 %	96.461 %	97.151 %
Concentration per Run 2	0.000 ppb	100.134 %	105.095 %	0.044 ppb	0.701 ppb	98.939 %	103.055 %	98.905 %	105.466 %
Concentration per Run 3	0.001 ppb	100.426 %	106.981 %	0.059 ppb	0.665 ppb	96.851 %	106.014 %	95.701 %	107.664 %
Concentration RSD	159.6 %	1.6 %	4.5 %	39.9 %	5.2 %	1.7 %	5.3 %	1.7 %	5.4 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.011 ppb	0.018 ppb	98.611 %	98.707 %
Concentration per Run 1	0.012 ppb	0.020 ppb	98.102 %	92.931 %
Concentration per Run 2	0.011 ppb	0.016 ppb	96.413 %	102.096 %
Concentration per Run 3	0.011 ppb	0.017 ppb	101.318 %	101.095 %
Concentration RSD	5.3 %	12.8 %	2.5 %	5.1 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	87	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1932106-2d10 6020SL	Rack	1		
Analysis started at:	6/11/2024 8:55:41 PM	Vial	57		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	99.496 %	100.245 %	5.006 ppb	1,040.445 ppb	1,024.961 ppb	200.255 ppb	1,119.465 ppb	1,011.560 ppb	94.663 %
Concentration per Run 1	99.835 %	91.176 %	4.958 ppb	1,132.950 ppb	1,095.278 ppb	223.006 ppb	1,189.846 ppb	1,090.782 ppb	99.747 %
Concentration per Run 2	99.687 %	106.373 %	5.042 ppb	982.371 ppb	989.536 ppb	193.446 ppb	1,052.932 ppb	939.235 ppb	85.178 %
Concentration per Run 3	98.965 %	103.186 %	5.019 ppb	1,006.016 ppb	990.069 ppb	184.313 ppb	1,115.615 ppb	1,004.663 ppb	99.063 %
Concentration RSD	0.5 %	8.0 %	0.9 %	7.8 %	5.9 %	10.1 %	6.1 %	7.5 %	8.7 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	99.028 %	53.182 ppb	20.694 ppb	54.622 ppb	113.798 ppb	52.392 ppb	50.797 ppb	25.375 ppb	51.530 ppb
Concentration per Run 1	95.837 %	55.799 ppb	21.647 ppb	57.127 ppb	111.504 ppb	56.138 ppb	53.474 ppb	27.257 ppb	54.380 ppb
Concentration per Run 2	100.427 %	51.797 ppb	20.380 ppb	53.820 ppb	120.248 ppb	51.060 ppb	49.519 ppb	24.909 ppb	51.233 ppb
Concentration per Run 3	100.818 %	51.949 ppb	20.055 ppb	52.920 ppb	109.642 ppb	49.978 ppb	49.397 ppb	23.958 ppb	48.979 ppb
Concentration RSD	2.8 %	4.3 %	4.1 %	4.1 %	5.0 %	6.3 %	4.6 %	6.7 %	5.3 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	101.519 %	104.700 %	12.129 ppb	11.825 ppb	98.223 ppb	91.766 ppb	99.764 %	100.812 %	4.967 ppb
Concentration per Run 1	101.441 %	100.195 %	12.875 ppb	13.051 ppb	102.746 ppb	95.850 ppb	100.881 %	96.011 %	5.259 ppb
Concentration per Run 2	101.705 %	104.400 %	12.257 ppb	11.926 ppb	96.975 ppb	89.409 ppb	99.248 %	101.825 %	4.822 ppb
Concentration per Run 3	101.412 %	109.504 %	11.255 ppb	10.498 ppb	94.946 ppb	90.038 ppb	99.163 %	104.600 %	4.820 ppb
Concentration RSD	0.2 %	4.5 %	6.7 %	10.8 %	4.1 %	3.9 %	1.0 %	4.3 %	5.1 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	5.322 ppb	101.541 %	104.566 %	47.315 ppb	193.882 ppb	98.474 %	101.516 %	99.483 %	102.578 %
Concentration per Run 1	5.706 ppb	100.393 %	97.799 %	50.688 ppb	205.280 ppb	99.175 %	95.125 %	98.365 %	96.727 %
Concentration per Run 2	5.226 ppb	101.896 %	106.517 %	45.911 ppb	189.807 ppb	97.653 %	105.098 %	99.133 %	106.629 %
Concentration per Run 3	5.035 ppb	102.334 %	109.384 %	45.346 ppb	186.558 ppb	98.594 %	104.325 %	100.950 %	104.377 %
Concentration RSD	6.5 %	1.0 %	5.8 %	6.2 %	5.2 %	0.8 %	5.5 %	1.3 %	5.1 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	9.721 ppb	54.988 ppb	96.105 %	95.853 %
Concentration per Run 1	9.872 ppb	59.153 ppb	93.982 %	90.036 %
Concentration per Run 2	9.725 ppb	53.515 ppb	94.644 %	97.275 %
Concentration per Run 3	9.565 ppb	52.295 ppb	99.689 %	100.249 %
Concentration RSD	1.6 %	6.7 %	3.2 %	5.5 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	88	User name	ALPHALAB\ICPMSRQ	Comment	ng
Analysis label:	I2428965-13 6020TL	Rack	1		
Analysis started at:	6/11/2024 9:00:23 PM	Vial	36		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	97.615 %	97.140 %	0.111 ppb	3,843.922 ppb	7,334.174 ppb	1,152.751 ppb	5,821.397 ppb	66,372.757 ppb	96.844 %
Concentration per Run 1	96.715 %	88.970 %	0.115 ppb	4,152.156 ppb	7,937.917 ppb	1,225.762 ppb	6,203.973 ppb	70,297.136 ppb	105.173 %
Concentration per Run 2	98.401 %	98.284 %	0.105 ppb	3,782.751 ppb	7,102.309 ppb	1,097.752 ppb	5,716.721 ppb	65,268.689 ppb	90.002 %
Concentration per Run 3	97.729 %	104.167 %	0.114 ppb	3,596.857 ppb	6,962.296 ppb	1,134.739 ppb	5,543.497 ppb	63,552.447 ppb	95.358 %
Concentration RSD	0.9 %	7.9 %	5.1 %	7.4 %	7.2 %	5.7 %	5.9 %	5.3 %	7.9 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	104.501 %	4.896 ppb	1.599 ppb	853.325 ppb	28,713.813 ppb	1.237 ppb	4.610 ppb	5.220 ppb	49.015 ppb
Concentration per Run 1	98.648 %	5.299 ppb	1.734 ppb	910.597 ppb	30,905.175 ppb	1.316 ppb	4.843 ppb	5.625 ppb	52.264 ppb
Concentration per Run 2	106.209 %	4.679 ppb	1.578 ppb	829.610 ppb	27,422.277 ppb	1.217 ppb	4.467 ppb	5.012 ppb	47.378 ppb
Concentration per Run 3	108.646 %	4.710 ppb	1.484 ppb	819.767 ppb	27,813.988 ppb	1.180 ppb	4.520 ppb	5.024 ppb	47.403 ppb
Concentration RSD	5.0 %	7.1 %	7.9 %	5.8 %	6.6 %	5.7 %	4.4 %	6.7 %	5.7 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	101.836 %	104.495 %	0.714 ppb	1.025 ppb	463.287 ppb	0.419 ppb	89.138 %	95.021 %	0.041 ppb
Concentration per Run 1	101.548 %	98.710 %	0.823 ppb	0.857 ppb	484.934 ppb	0.380 ppb	83.787 %	90.548 %	0.044 ppb
Concentration per Run 2	100.477 %	107.211 %	0.782 ppb	0.960 ppb	449.922 ppb	0.449 ppb	96.126 %	97.886 %	0.039 ppb
Concentration per Run 3	103.482 %	107.565 %	0.537 ppb	1.257 ppb	455.005 ppb	0.427 ppb	87.500 %	96.630 %	0.039 ppb
Concentration RSD	1.5 %	4.8 %	21.7 %	20.3 %	4.1 %	8.5 %	7.1 %	4.1 %	7.4 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	1.913 ppb	95.013 %	100.217 %	0.817 ppb	465.376 ppb	98.593 %	99.625 %	97.799 %	99.703 %
Concentration per Run 1	2.017 ppb	96.695 %	95.037 %	0.739 ppb	491.421 ppb	101.316 %	94.887 %	99.797 %	94.143 %
Concentration per Run 2	1.918 ppb	94.269 %	102.640 %	0.855 ppb	454.123 ppb	97.741 %	102.023 %	97.417 %	100.695 %
Concentration per Run 3	1.804 ppb	94.075 %	102.973 %	0.857 ppb	450.584 ppb	96.721 %	101.965 %	96.183 %	104.271 %
Concentration RSD	5.6 %	1.5 %	4.5 %	8.2 %	4.9 %	2.4 %	4.1 %	1.9 %	5.2 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.036 ppb	14.809 ppb	91.481 %	93.109 %
Concentration per Run 1	0.040 ppb	15.592 ppb	88.856 %	89.356 %
Concentration per Run 2	0.036 ppb	14.353 ppb	92.538 %	95.561 %
Concentration per Run 3	0.033 ppb	14.481 ppb	93.050 %	94.408 %
Concentration RSD	10.6 %	4.6 %	2.5 %	3.5 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	89	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430865-07 6020SL	Rack	1		
Analysis started at:	6/11/2024 9:05:06 PM	Vial	58		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	107.069 %	108.987 %	0.006 ppb	19,122.108 ppb	21,751.514 ppb	6.203 ppb	4,960.924 ppb	66,025.200 ppb	93.005 %
Concentration per Run 1	107.382 %	103.431 %	0.005 ppb	20,217.725 ppb	23,217.686 ppb	5.942 ppb	5,131.819 ppb	69,612.621 ppb	93.252 %
Concentration per Run 2	107.138 %	111.275 %	0.010 ppb	18,667.222 ppb	21,123.435 ppb	5.580 ppb	4,912.277 ppb	64,493.468 ppb	95.277 %
Concentration per Run 3	106.686 %	112.255 %	0.004 ppb	18,481.377 ppb	20,913.420 ppb	7.087 ppb	4,838.675 ppb	63,969.512 ppb	90.484 %
Concentration RSD	0.3 %	4.4 %	53.4 %	5.0 %	5.9 %	12.7 %	3.1 %	4.7 %	2.6 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	102.016 %	0.031 ppb	124.736 ppb	3,798.197 ppb	16.061 ppb	0.040 ppb	0.059 ppb	0.385 ppb	0.379 ppb
Concentration per Run 1	99.449 %	0.032 ppb	129.301 ppb	3,933.360 ppb	16.781 ppb	0.049 ppb	0.062 ppb	0.384 ppb	0.400 ppb
Concentration per Run 2	102.917 %	0.017 ppb	124.126 ppb	3,754.181 ppb	15.435 ppb	0.028 ppb	0.064 ppb	0.368 ppb	0.304 ppb
Concentration per Run 3	103.682 %	0.043 ppb	120.780 ppb	3,707.050 ppb	15.966 ppb	0.045 ppb	0.050 ppb	0.403 ppb	0.432 ppb
Concentration RSD	2.2 %	42.0 %	3.4 %	3.1 %	4.2 %	27.7 %	13.4 %	4.5 %	17.5 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	107.155 %	102.273 %	0.587 ppb	0.857 ppb	154.738 ppb	0.179 ppb	92.746 %	95.030 %	0.007 ppb
Concentration per Run 1	106.018 %	98.988 %	0.662 ppb	1.018 ppb	162.873 ppb	0.139 ppb	89.517 %	88.963 %	0.007 ppb
Concentration per Run 2	107.186 %	101.194 %	0.582 ppb	0.885 ppb	151.521 ppb	0.191 ppb	94.224 %	97.633 %	0.006 ppb
Concentration per Run 3	108.260 %	106.637 %	0.517 ppb	0.667 ppb	149.821 ppb	0.208 ppb	94.498 %	98.495 %	0.008 ppb
Concentration RSD	1.0 %	3.8 %	12.4 %	20.7 %	4.6 %	20.1 %	3.0 %	5.5 %	18.2 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.002 ppb	97.196 %	100.404 %	0.344 ppb	37.206 ppb	98.125 %	100.440 %	97.484 %	102.574 %
Concentration per Run 1	0.001 ppb	97.852 %	95.435 %	0.304 ppb	38.662 ppb	96.419 %	97.161 %	95.009 %	96.368 %
Concentration per Run 2	0.004 ppb	96.615 %	101.891 %	0.349 ppb	37.351 ppb	99.779 %	102.370 %	97.310 %	106.830 %
Concentration per Run 3	0.001 ppb	97.122 %	103.886 %	0.379 ppb	35.604 ppb	98.176 %	101.789 %	100.133 %	104.523 %
Concentration RSD	103.0 %	0.6 %	4.4 %	11.1 %	4.1 %	1.7 %	2.8 %	2.6 %	5.4 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.010 ppb	0.021 ppb	93.043 %	92.604 %
Concentration per Run 1	0.009 ppb	0.025 ppb	91.758 %	86.864 %
Concentration per Run 2	0.009 ppb	0.020 ppb	93.856 %	93.120 %
Concentration per Run 3	0.013 ppb	0.018 ppb	93.516 %	97.827 %
Concentration RSD	20.7 %	17.8 %	1.2 %	5.9 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	90	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1932106-3d10 6020SL	Rack	1		
Analysis started at:	6/11/2024 9:09:48 PM	Vial	59		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	99.736 %	93.872 %	4.955 ppb	3,481.566 ppb	3,526.612 ppb	208.301 ppb	1,651.282 ppb	7,943.289 ppb	101.794 %
Concentration per Run 1	100.493 %	85.294 %	4.914 ppb	3,757.369 ppb	3,772.011 ppb	220.678 ppb	1,727.670 ppb	8,300.024 ppb	99.607 %
Concentration per Run 2	99.973 %	104.657 %	4.968 ppb	3,184.567 ppb	3,307.416 ppb	183.100 ppb	1,594.478 ppb	7,789.289 ppb	103.222 %
Concentration per Run 3	98.742 %	91.667 %	4.984 ppb	3,502.763 ppb	3,500.409 ppb	221.126 ppb	1,631.698 ppb	7,740.555 ppb	102.552 %
Concentration RSD	0.9 %	10.5 %	0.7 %	8.2 %	6.6 %	10.5 %	4.2 %	3.9 %	1.9 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	98.043 %	52.254 ppb	33.588 ppb	465.803 ppb	116.625 ppb	51.071 ppb	49.904 ppb	24.668 ppb	50.121 ppb
Concentration per Run 1	95.321 %	54.356 ppb	35.317 ppb	487.605 ppb	118.690 ppb	53.649 ppb	53.838 ppb	25.572 ppb	51.987 ppb
Concentration per Run 2	99.111 %	50.838 ppb	32.529 ppb	456.412 ppb	120.876 ppb	50.047 ppb	48.828 ppb	24.497 ppb	48.747 ppb
Concentration per Run 3	99.698 %	51.569 ppb	32.917 ppb	453.392 ppb	110.311 ppb	49.518 ppb	47.047 ppb	23.937 ppb	49.627 ppb
Concentration RSD	2.4 %	3.6 %	4.5 %	4.1 %	4.8 %	4.4 %	7.1 %	3.4 %	3.3 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	103.794 %	103.838 %	12.412 ppb	12.581 ppb	115.058 ppb	94.795 ppb	97.052 %	98.727 %	4.902 ppb
Concentration per Run 1	103.681 %	100.370 %	12.997 ppb	11.388 ppb	122.653 ppb	99.204 ppb	98.932 %	93.808 %	5.243 ppb
Concentration per Run 2	103.823 %	106.048 %	12.244 ppb	13.521 ppb	110.901 ppb	94.585 ppb	96.630 %	99.413 %	4.751 ppb
Concentration per Run 3	103.878 %	105.096 %	11.996 ppb	12.833 ppb	111.620 ppb	90.595 ppb	95.594 %	102.960 %	4.712 ppb
Concentration RSD	0.1 %	2.9 %	4.2 %	8.7 %	5.7 %	4.5 %	1.8 %	4.7 %	6.0 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	5.269 ppb	100.291 %	105.517 %	49.248 ppb	197.856 ppb	97.647 %	99.608 %	97.020 %	103.552 %
Concentration per Run 1	5.781 ppb	99.224 %	100.684 %	52.234 ppb	211.833 ppb	96.409 %	94.529 %	96.800 %	96.653 %
Concentration per Run 2	4.963 ppb	99.765 %	107.798 %	48.582 ppb	193.368 ppb	96.357 %	101.391 %	96.738 %	105.751 %
Concentration per Run 3	5.063 ppb	101.885 %	108.070 %	46.929 ppb	188.366 ppb	100.175 %	102.906 %	97.522 %	108.250 %
Concentration RSD	8.5 %	1.4 %	4.0 %	5.5 %	6.2 %	2.2 %	4.5 %	0.4 %	5.9 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	9.374 ppb	53.765 ppb	94.015 %	94.540 %
Concentration per Run 1	9.337 ppb	57.570 ppb	93.553 %	89.598 %
Concentration per Run 2	9.099 ppb	52.432 ppb	95.568 %	95.533 %
Concentration per Run 3	9.686 ppb	51.295 ppb	92.923 %	98.489 %
Concentration RSD	3.2 %	6.2 %	1.5 %	4.8 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index: 91 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: wg1932106-4 6020SL Rack 1
Analysis started at: 6/11/2024 9:14:31 PM Vial 60

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	105.828 %	100.654 %	0.002 ppb	19,773.894 ppb	22,520.475 ppb	8.660 ppb	4,981.243 ppb	66,001.824 ppb	105.939 %
Concentration per Run 1	106.637 %	95.343 %	0.002 ppb	20,959.408 ppb	24,063.772 ppb	9.086 ppb	5,139.585 ppb	68,578.862 ppb	106.658 %
Concentration per Run 2	105.353 %	106.618 %	0.003 ppb	18,780.910 ppb	21,431.819 ppb	7.502 ppb	4,890.433 ppb	64,530.175 ppb	106.121 %
Concentration per Run 3	105.493 %	100.000 %	0.001 ppb	19,581.365 ppb	22,065.834 ppb	9.394 ppb	4,913.712 ppb	64,896.434 ppb	105.039 %
Concentration RSD	0.7 %	5.6 %	38.3 %	5.6 %	6.1 %	11.7 %	2.8 %	3.4 %	0.8 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	97.705 %	0.010 ppb	123.485 ppb	3,746.540 ppb	10.644 ppb	0.048 ppb	0.078 ppb	0.298 ppb	0.616 ppb
Concentration per Run 1	94.272 %	0.016 ppb	128.585 ppb	3,961.020 ppb	10.186 ppb	0.060 ppb	0.089 ppb	0.317 ppb	0.756 ppb
Concentration per Run 2	98.879 %	0.009 ppb	121.509 ppb	3,634.990 ppb	10.432 ppb	0.042 ppb	0.074 ppb	0.278 ppb	0.563 ppb
Concentration per Run 3	99.964 %	0.004 ppb	120.363 ppb	3,643.612 ppb	11.315 ppb	0.043 ppb	0.071 ppb	0.298 ppb	0.529 ppb
Concentration RSD	3.1 %	60.2 %	3.6 %	5.0 %	5.6 %	21.1 %	12.6 %	6.5 %	19.8 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	105.928 %	101.582 %	0.568 ppb	0.672 ppb	149.557 ppb	0.477 ppb	93.530 %	94.949 %	0.012 ppb
Concentration per Run 1	103.859 %	95.683 %	0.537 ppb	0.478 ppb	160.364 ppb	0.488 ppb	96.963 %	89.077 %	0.014 ppb
Concentration per Run 2	106.999 %	103.921 %	0.513 ppb	0.759 ppb	144.149 ppb	0.440 ppb	91.191 %	97.521 %	0.011 ppb
Concentration per Run 3	106.926 %	105.142 %	0.653 ppb	0.780 ppb	144.159 ppb	0.503 ppb	92.436 %	98.248 %	0.011 ppb
Concentration RSD	1.7 %	5.1 %	13.2 %	25.1 %	6.3 %	6.9 %	3.2 %	5.4 %	13.2 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.002 ppb	93.930 %	99.229 %	0.199 ppb	37.279 ppb	97.266 %	98.715 %	95.183 %	100.206 %
Concentration per Run 1	0.002 ppb	94.268 %	93.611 %	0.190 ppb	40.086 ppb	96.410 %	93.573 %	94.127 %	92.953 %
Concentration per Run 2	0.001 ppb	91.932 %	102.486 %	0.178 ppb	36.170 ppb	98.992 %	100.650 %	96.535 %	103.019 %
Concentration per Run 3	0.003 ppb	95.591 %	101.591 %	0.228 ppb	35.582 ppb	96.396 %	101.921 %	94.887 %	104.645 %
Concentration RSD	59.1 %	2.0 %	4.9 %	13.1 %	6.6 %	1.5 %	4.6 %	1.3 %	6.3 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.095 ppb	0.033 ppb	90.943 %	93.554 %
Concentration per Run 1	0.107 ppb	0.038 ppb	91.055 %	87.427 %
Concentration per Run 2	0.099 ppb	0.032 ppb	90.489 %	94.837 %
Concentration per Run 3	0.080 ppb	0.029 ppb	91.285 %	98.399 %
Concentration RSD	14.3 %	13.7 %	0.5 %	6.0 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	92	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1932106-5d10 6020SL	Rack	2		
Analysis started at:	6/11/2024 9:19:14 PM	Vial	1		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	98.034 %	95.098 %	49.616 ppb	7,364.096 ppb	7,434.755 ppb	55.450 ppb	5,866.398 ppb	11,648.206 ppb	97.115 %
Concentration per Run 1	97.942 %	97.549 %	49.930 ppb	7,412.169 ppb	7,528.613 ppb	56.283 ppb	5,926.462 ppb	11,876.952 ppb	103.007 %
Concentration per Run 2	97.552 %	87.010 %	49.277 ppb	7,640.211 ppb	7,703.466 ppb	54.304 ppb	5,924.434 ppb	11,165.605 ppb	100.771 %
Concentration per Run 3	98.610 %	100.735 %	49.641 ppb	7,039.908 ppb	7,072.186 ppb	55.763 ppb	5,748.300 ppb	11,902.062 ppb	87.565 %
Concentration RSD	0.5 %	7.6 %	0.7 %	4.1 %	4.4 %	1.9 %	1.7 %	3.6 %	8.6 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	100.890 %	53.303 ppb	63.701 ppb	447.253 ppb	5,206.814 ppb	50.539 ppb	50.344 ppb	49.793 ppb	50.439 ppb
Concentration per Run 1	99.822 %	54.269 ppb	67.031 ppb	466.602 ppb	5,365.532 ppb	52.062 ppb	53.607 ppb	54.255 ppb	53.649 ppb
Concentration per Run 2	101.334 %	52.418 ppb	62.308 ppb	438.213 ppb	5,115.135 ppb	50.782 ppb	48.324 ppb	48.159 ppb	49.903 ppb
Concentration per Run 3	101.512 %	53.220 ppb	61.763 ppb	436.944 ppb	5,139.777 ppb	48.773 ppb	49.102 ppb	46.964 ppb	47.766 ppb
Concentration RSD	0.9 %	1.7 %	4.5 %	3.7 %	2.7 %	3.3 %	5.7 %	7.9 %	5.9 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	102.285 %	102.696 %	49.145 ppb	49.679 ppb	66.967 ppb	48.911 ppb	96.166 %	97.243 %	4.368 ppb
Concentration per Run 1	101.154 %	97.071 %	51.901 ppb	52.044 ppb	70.862 ppb	52.100 ppb	95.998 %	91.572 %	4.707 ppb
Concentration per Run 2	101.904 %	104.741 %	48.317 ppb	50.979 ppb	65.662 ppb	47.007 ppb	96.404 %	100.250 %	4.234 ppb
Concentration per Run 3	103.798 %	106.275 %	47.216 ppb	46.013 ppb	64.379 ppb	47.627 ppb	96.098 %	99.906 %	4.164 ppb
Concentration RSD	1.3 %	4.8 %	5.0 %	6.5 %	5.1 %	5.7 %	0.2 %	5.1 %	6.8 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	48.858 ppb	97.595 %	100.498 %	50.727 ppb	53.659 ppb	98.572 %	100.127 %	96.532 %	103.459 %
Concentration per Run 1	52.242 ppb	95.513 %	95.344 %	53.929 ppb	56.723 ppb	97.840 %	95.746 %	93.668 %	99.717 %
Concentration per Run 2	47.556 ppb	98.591 %	102.113 %	50.015 ppb	53.397 ppb	99.074 %	99.943 %	98.019 %	103.677 %
Concentration per Run 3	46.776 ppb	98.681 %	104.035 %	48.236 ppb	50.856 ppb	98.802 %	104.692 %	97.907 %	106.983 %
Concentration RSD	6.1 %	1.8 %	4.5 %	5.7 %	5.5 %	0.7 %	4.5 %	2.6 %	3.5 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	48.246 ppb	48.362 ppb	92.494 %	95.525 %
Concentration per Run 1	46.642 ppb	51.437 ppb	93.054 %	90.668 %
Concentration per Run 2	49.053 ppb	47.187 ppb	92.531 %	96.683 %
Concentration per Run 3	49.044 ppb	46.462 ppb	91.898 %	99.223 %
Concentration RSD	2.9 %	5.6 %	0.6 %	4.6 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	93	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	wg1932106-6d5 6020SL	Rack	2		
Analysis started at:	6/11/2024 9:23:56 PM	Vial	2		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	99.840 %	97.876 %	0.019 ppb	4,595.066 ppb	4,796.641 ppb	1.315 ppb	1,019.911 ppb	13,653.936 ppb	101.703 %
Concentration per Run 1	100.280 %	98.774 %	0.023 ppb	4,705.633 ppb	4,867.377 ppb	0.195 ppb	1,048.341 ppb	13,956.489 ppb	99.302 %
Concentration per Run 2	99.829 %	92.647 %	0.017 ppb	4,642.360 ppb	4,881.205 ppb	1.512 ppb	1,009.917 ppb	13,215.371 ppb	101.537 %
Concentration per Run 3	99.410 %	102.206 %	0.019 ppb	4,437.206 ppb	4,641.340 ppb	2.237 ppb	1,001.474 ppb	13,789.947 ppb	104.270 %
Concentration RSD	0.4 %	4.9 %	17.3 %	3.1 %	2.8 %	78.7 %	2.4 %	2.8 %	2.4 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	97.889 %	0.023 ppb	25.418 ppb	803.659 ppb	4.441 ppb	0.024 ppb	0.025 ppb	0.088 ppb	0.070 ppb
Concentration per Run 1	95.250 %	0.015 ppb	26.051 ppb	839.288 ppb	4.473 ppb	0.021 ppb	0.054 ppb	0.080 ppb	0.055 ppb
Concentration per Run 2	99.360 %	0.036 ppb	24.980 ppb	791.085 ppb	6.091 ppb	0.023 ppb	0.004 ppb	0.087 ppb	0.038 ppb
Concentration per Run 3	99.057 %	0.018 ppb	25.222 ppb	780.603 ppb	2.759 ppb	0.029 ppb	0.017 ppb	0.098 ppb	0.116 ppb
Concentration RSD	2.3 %	49.9 %	2.2 %	3.9 %	37.5 %	16.4 %	104.4 %	10.7 %	58.7 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	103.794 %	103.366 %	0.158 ppb	0.172 ppb	30.008 ppb	0.224 ppb	90.612 %	96.694 %	0.002 ppb
Concentration per Run 1	105.399 %	98.752 %	0.087 ppb	0.178 ppb	31.696 ppb	0.169 ppb	97.737 %	90.182 %	0.002 ppb
Concentration per Run 2	103.076 %	103.916 %	0.160 ppb	0.256 ppb	29.415 ppb	0.236 ppb	87.631 %	99.655 %	0.002 ppb
Concentration per Run 3	102.909 %	107.430 %	0.227 ppb	0.082 ppb	28.913 ppb	0.268 ppb	86.469 %	100.246 %	0.002 ppb
Concentration RSD	1.3 %	4.2 %	44.0 %	50.5 %	4.9 %	22.6 %	6.8 %	5.8 %	16.6 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.006 ppb	97.800 %	101.682 %	0.052 ppb	7.426 ppb	98.979 %	99.084 %	98.438 %	102.906 %
Concentration per Run 1	0.006 ppb	97.352 %	95.430 %	0.051 ppb	8.205 ppb	99.309 %	93.949 %	98.372 %	98.414 %
Concentration per Run 2	0.007 ppb	99.289 %	104.025 %	0.047 ppb	6.862 ppb	97.356 %	101.405 %	97.310 %	104.017 %
Concentration per Run 3	0.006 ppb	96.760 %	105.592 %	0.058 ppb	7.212 ppb	100.271 %	101.899 %	99.633 %	106.288 %
Concentration RSD	13.6 %	1.4 %	5.4 %	10.8 %	9.4 %	1.5 %	4.5 %	1.2 %	3.9 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.276 ppb	0.014 ppb	96.293 %	95.674 %
Concentration per Run 1	0.304 ppb	0.016 ppb	95.163 %	91.526 %
Concentration per Run 2	0.264 ppb	0.014 ppb	98.034 %	97.758 %
Concentration per Run 3	0.260 ppb	0.013 ppb	95.682 %	97.736 %
Concentration RSD	8.8 %	9.5 %	1.6 %	3.8 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	94	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	6/11/2024 9:28:37 PM	Vial	9		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	96.694 %	90.768 %	60.932 ppb	6,354.025 ppb	6,490.704 ppb	65.401 ppb	6,533.448 ppb	6,566.405 ppb	100.576 %
Concentration per Run 1	97.278 %	85.784 %	60.919 ppb	6,723.336 ppb	6,997.995 ppb	77.013 ppb	7,050.798 ppb	7,083.074 ppb	99.701 %
Concentration per Run 2	96.676 %	96.078 %	61.127 ppb	6,183.793 ppb	6,221.023 ppb	60.829 ppb	6,076.521 ppb	6,458.313 ppb	102.318 %
Concentration per Run 3	96.126 %	90.441 %	60.751 ppb	6,154.946 ppb	6,253.094 ppb	58.361 ppb	6,473.025 ppb	6,157.829 ppb	99.711 %
Recovery Percentage 1			101.554 %	105.900 %	108.178 %	109.002 %	108.891 %	109.440 %	
Concentration RSD	0.6 %	5.7 %	0.3 %	5.0 %	6.8 %	15.5 %	7.5 %	7.2 %	1.5 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	99.644 %	66.274 ppb	64.220 ppb	65.352 ppb	6,424.473 ppb	63.009 ppb	63.511 ppb	62.203 ppb	63.502 ppb
Concentration per Run 1	99.164 %	67.408 ppb	67.122 ppb	67.557 ppb	6,652.719 ppb	65.287 ppb	66.075 ppb	65.288 ppb	66.931 ppb
Concentration per Run 2	98.951 %	66.063 ppb	63.961 ppb	64.713 ppb	6,386.776 ppb	62.597 ppb	63.634 ppb	61.052 ppb	62.379 ppb
Concentration per Run 3	100.818 %	65.352 ppb	61.577 ppb	63.785 ppb	6,233.924 ppb	61.142 ppb	60.825 ppb	60.268 ppb	61.198 ppb
Recovery Percentage 1		110.457 %	107.034 %	108.919 %	107.075 %	105.014 %	105.852 %	103.672 %	105.837 %
Concentration RSD	1.0 %	1.6 %	4.3 %	3.0 %	3.3 %	3.3 %	4.1 %	4.3 %	4.8 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	100.980 %	102.692 %	60.888 ppb	60.555 ppb	63.383 ppb	60.024 ppb	97.863 %	96.874 %	61.375 ppb
Concentration per Run 1	98.970 %	97.531 %	64.907 ppb	64.915 ppb	67.868 ppb	63.063 ppb	97.302 %	91.068 %	66.662 ppb
Concentration per Run 2	101.464 %	102.380 %	59.530 ppb	59.903 ppb	60.960 ppb	57.953 ppb	97.116 %	100.801 %	59.038 ppb
Concentration per Run 3	102.506 %	108.165 %	58.229 ppb	56.848 ppb	61.320 ppb	59.055 ppb	99.172 %	98.755 %	58.423 ppb
Recovery Percentage 1			101.481 %	100.926 %	105.638 %	100.040 %			102.291 %
Concentration RSD	1.8 %	5.2 %	5.8 %	6.7 %	6.1 %	4.5 %	1.2 %	5.3 %	7.5 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	61.829 ppb	96.272 %	100.171 %	59.487 ppb	62.669 ppb	98.234 %	99.694 %	97.298 %	101.559 %
Concentration per Run 1	67.115 ppb	95.835 %	92.347 %	65.281 ppb	68.225 ppb	99.838 %	94.265 %	99.292 %	94.607 %
Concentration per Run 2	59.091 ppb	97.435 %	102.781 %	57.515 ppb	60.720 ppb	96.875 %	101.541 %	95.854 %	103.180 %
Concentration per Run 3	59.280 ppb	95.544 %	105.386 %	55.665 ppb	59.061 ppb	97.988 %	103.276 %	96.747 %	106.891 %
Recovery Percentage 1	103.048 %			99.145 %	104.448 %				
Concentration RSD	7.4 %	1.1 %	6.9 %	8.6 %	7.8 %	1.5 %	4.8 %	1.8 %	6.2 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	62.376 ppb	60.677 ppb	92.989 %	95.466 %
Concentration per Run 1	63.091 ppb	66.299 ppb	92.323 %	89.041 %
Concentration per Run 2	62.421 ppb	59.142 ppb	91.336 %	97.317 %
Concentration per Run 3	61.617 ppb	56.591 ppb	95.308 %	100.040 %
Recovery Percentage 1	103.961 %	101.129 %		
Concentration RSD	1.2 %	8.3 %	2.2 %	6.0 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	95	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/11/2024 9:33:23 PM	Vial	10		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	98.114 %	97.958 %	0.023 ppb	1.036 ppb	1.182 ppb	0.497 ppb	15.180 ppb	-4.900 ppb	98.029 %
Concentration per Run 1	98.582 %	94.608 %	0.028 ppb	1.127 ppb	1.487 ppb	2.851 ppb	21.181 ppb	-7.211 ppb	99.504 %
Concentration per Run 2	98.020 %	95.833 %	0.025 ppb	1.059 ppb	0.901 ppb	-0.675 ppb	10.141 ppb	-7.497 ppb	97.375 %
Concentration per Run 3	97.739 %	103.431 %	0.016 ppb	0.923 ppb	1.158 ppb	-0.686 ppb	14.217 ppb	0.009 ppb	97.207 %
Recovery Percentage 1			4.637 %	1.036 %	1.689 %	4.969 %	15.180 %	-4.900 %	
Concentration RSD	0.4 %	4.9 %	26.6 %	10.0 %	24.8 %	410.3 %	36.8 %	86.8 %	1.3 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	97.670 %	0.006 ppb	0.012 ppb	0.322 ppb	4.724 ppb	0.012 ppb	0.081 ppb	0.025 ppb	0.450 ppb
Concentration per Run 1	96.300 %	-0.004 ppb	0.015 ppb	0.349 ppb	5.668 ppb	0.020 ppb	0.106 ppb	0.038 ppb	0.526 ppb
Concentration per Run 2	99.182 %	0.009 ppb	0.017 ppb	0.289 ppb	5.064 ppb	0.007 ppb	0.049 ppb	0.021 ppb	0.430 ppb
Concentration per Run 3	97.527 %	0.014 ppb	0.005 ppb	0.330 ppb	3.440 ppb	0.008 ppb	0.088 ppb	0.016 ppb	0.394 ppb
Recovery Percentage 1		0.127 %	1.216 %	32.241 %	9.448 %	2.345 %	4.046 %	2.491 %	8.995 %
Concentration RSD	1.5 %	145.8 %	52.0 %	9.5 %	24.4 %	60.9 %	35.9 %	45.8 %	15.1 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	98.675 %	100.470 %	0.029 ppb	0.039 ppb	0.025 ppb	0.200 ppb	99.401 %	100.956 %	0.012 ppb
Concentration per Run 1	99.060 %	94.488 %	0.004 ppb	0.052 ppb	0.025 ppb	0.163 ppb	99.993 %	97.435 %	0.019 ppb
Concentration per Run 2	97.406 %	103.696 %	0.060 ppb	-0.016 ppb	0.018 ppb	0.192 ppb	99.595 %	102.666 %	0.012 ppb
Concentration per Run 3	99.558 %	103.225 %	0.023 ppb	0.081 ppb	0.031 ppb	0.245 ppb	98.614 %	102.766 %	0.005 ppb
Recovery Percentage 1			5.877 %	0.781 %	4.922 %	10.004 %			3.030 %
Concentration RSD	1.1 %	5.2 %	96.5 %	127.8 %	27.7 %	20.8 %	0.7 %	3.0 %	56.8 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.005 ppb	98.493 %	103.295 %	0.653 ppb	0.029 ppb	96.813 %	100.314 %	97.160 %	102.500 %
Concentration per Run 1	0.004 ppb	98.468 %	95.769 %	0.606 ppb	0.017 ppb	96.073 %	96.441 %	99.423 %	96.624 %
Concentration per Run 2	0.007 ppb	98.124 %	107.056 %	0.682 ppb	0.035 ppb	97.035 %	102.072 %	96.332 %	105.875 %
Concentration per Run 3	0.005 ppb	98.886 %	107.058 %	0.671 ppb	0.034 ppb	97.331 %	102.428 %	95.726 %	105.003 %
Recovery Percentage 1				16.319 %	5.728 %				
Concentration RSD	26.9 %	0.4 %	6.3 %	6.2 %	35.3 %	0.7 %	3.3 %	2.0 %	5.0 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.182 ppb	0.014 ppb	97.681 %	99.919 %
Concentration per Run 1	0.205 ppb	0.016 ppb	95.854 %	95.942 %
Concentration per Run 2	0.184 ppb	0.014 ppb	96.391 %	101.929 %
Concentration per Run 3	0.155 ppb	0.011 ppb	100.798 %	101.887 %
Recovery Percentage 1	18.151 %	1.367 %		
Concentration RSD	13.8 %	15.9 %	2.8 %	3.4 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index: 96 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: L2430865-08 6020SL Rack 2
Analysis started at: 6/11/2024 9:38:09 PM Vial 3

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	98.493 %	100.490 %	0.016 ppb	8,988.501 ppb	14,600.192 ppb	13.202 ppb	1,182.763 ppb	39,737.423 ppb	91.297 %
Concentration per Run 1	98.458 %	96.323 %	0.020 ppb	9,301.499 ppb	15,211.171 ppb	9.793 ppb	1,201.384 ppb	39,890.514 ppb	92.121 %
Concentration per Run 2	98.416 %	104.412 %	0.016 ppb	8,672.869 ppb	14,091.710 ppb	16.591 ppb	1,177.177 ppb	39,896.226 ppb	92.069 %
Concentration per Run 3	98.605 %	100.735 %	0.013 ppb	8,991.136 ppb	14,497.694 ppb	13.222 ppb	1,169.728 ppb	39,425.527 ppb	89.702 %
Concentration RSD	0.1 %	4.0 %	19.6 %	3.5 %	3.9 %	25.7 %	1.4 %	0.7 %	1.5 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	104.003 %	1.472 ppb	0.557 ppb	1.190 ppb	26.335 ppb	0.022 ppb	0.047 ppb	0.341 ppb	0.958 ppb
Concentration per Run 1	103.469 %	1.530 ppb	0.549 ppb	1.219 ppb	27.962 ppb	0.021 ppb	0.042 ppb	0.406 ppb	0.988 ppb
Concentration per Run 2	104.394 %	1.376 ppb	0.605 ppb	1.177 ppb	26.241 ppb	0.020 ppb	0.055 ppb	0.304 ppb	0.975 ppb
Concentration per Run 3	104.145 %	1.509 ppb	0.516 ppb	1.174 ppb	24.803 ppb	0.026 ppb	0.044 ppb	0.314 ppb	0.910 ppb
Concentration RSD	0.5 %	5.7 %	8.1 %	2.1 %	6.0 %	13.3 %	14.5 %	16.4 %	4.3 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	99.997 %	105.151 %	2.071 ppb	0.384 ppb	120.552 ppb	0.222 ppb	95.182 %	97.661 %	0.001 ppb
Concentration per Run 1	99.064 %	102.496 %	2.184 ppb	0.500 ppb	122.053 ppb	0.251 ppb	96.212 %	96.526 %	0.002 ppb
Concentration per Run 2	100.464 %	104.928 %	1.964 ppb	0.248 ppb	120.361 ppb	0.200 ppb	95.369 %	98.239 %	0.001 ppb
Concentration per Run 3	100.463 %	108.030 %	2.064 ppb	0.404 ppb	119.243 ppb	0.215 ppb	93.965 %	98.217 %	0.001 ppb
Concentration RSD	0.8 %	2.6 %	5.3 %	33.1 %	1.2 %	11.7 %	1.2 %	1.0 %	45.4 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.003 ppb	96.793 %	101.817 %	0.334 ppb	197.187 ppb	96.911 %	100.354 %	96.228 %	105.482 %
Concentration per Run 1	0.002 ppb	96.421 %	100.546 %	0.277 ppb	203.266 ppb	95.464 %	98.083 %	97.120 %	100.427 %
Concentration per Run 2	0.005 ppb	98.429 %	103.289 %	0.326 ppb	192.936 ppb	98.016 %	99.698 %	95.569 %	107.587 %
Concentration per Run 3	0.003 ppb	95.527 %	101.615 %	0.398 ppb	195.358 ppb	97.253 %	103.280 %	95.994 %	108.432 %
Concentration RSD	50.1 %	1.5 %	1.4 %	18.2 %	2.7 %	1.4 %	2.7 %	0.8 %	4.2 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.089 ppb	0.045 ppb	93.663 %	97.764 %
Concentration per Run 1	0.093 ppb	0.046 ppb	93.452 %	96.839 %
Concentration per Run 2	0.088 ppb	0.042 ppb	94.125 %	97.375 %
Concentration per Run 3	0.085 ppb	0.047 ppb	93.413 %	99.077 %
Concentration RSD	4.7 %	5.4 %	0.4 %	1.2 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	97	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430865-09 6020SL	Rack	2		
Analysis started at:	6/11/2024 9:42:50 PM	Vial	4		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	97.971 %	99.020 %	0.013 ppb	8,240.718 ppb	17,865.796 ppb	4.389 ppb	1,124.297 ppb	47,900.750 ppb	106.493 %
Concentration per Run 1	98.473 %	96.078 %	0.017 ppb	8,689.613 ppb	18,508.198 ppb	4.963 ppb	1,175.240 ppb	50,844.545 ppb	106.657 %
Concentration per Run 2	98.834 %	101.471 %	0.013 ppb	8,053.274 ppb	17,466.605 ppb	4.318 ppb	1,122.793 ppb	46,046.019 ppb	104.888 %
Concentration per Run 3	96.606 %	99.510 %	0.009 ppb	7,979.267 ppb	17,622.583 ppb	3.884 ppb	1,074.856 ppb	46,811.687 ppb	107.934 %
Concentration RSD	1.2 %	2.8 %	29.9 %	4.7 %	3.1 %	12.4 %	4.5 %	5.4 %	1.4 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	99.923 %	3.500 ppb	0.259 ppb	1.123 ppb	4.604 ppb	0.017 ppb	-0.002 ppb	0.162 ppb	1.323 ppb
Concentration per Run 1	97.545 %	3.537 ppb	0.593 ppb	1.198 ppb	4.541 ppb	0.022 ppb	0.006 ppb	0.159 ppb	1.450 ppb
Concentration per Run 2	99.947 %	3.405 ppb	0.103 ppb	1.071 ppb	5.173 ppb	0.014 ppb	0.021 ppb	0.182 ppb	1.253 ppb
Concentration per Run 3	102.277 %	3.558 ppb	0.082 ppb	1.100 ppb	4.097 ppb	0.015 ppb	-0.032 ppb	0.144 ppb	1.265 ppb
Concentration RSD	2.4 %	2.4 %	111.6 %	5.9 %	11.7 %	26.7 %	1,679.5 %	11.7 %	8.4 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	102.686 %	103.441 %	2.899 ppb	0.288 ppb	148.553 ppb	0.237 ppb	93.871 %	95.726 %	0.002 ppb
Concentration per Run 1	102.647 %	97.595 %	3.023 ppb	0.297 ppb	155.645 ppb	0.248 ppb	97.183 %	90.886 %	0.002 ppb
Concentration per Run 2	101.764 %	107.156 %	2.775 ppb	0.250 ppb	141.528 ppb	0.240 ppb	93.880 %	100.225 %	0.003 ppb
Concentration per Run 3	103.645 %	105.571 %	2.900 ppb	0.318 ppb	148.487 ppb	0.223 ppb	90.551 %	96.067 %	0.001 ppb
Concentration RSD	0.9 %	5.0 %	4.3 %	12.0 %	4.8 %	5.6 %	3.5 %	4.9 %	41.9 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.010 ppb	95.475 %	100.078 %	0.203 ppb	340.713 ppb	97.248 %	99.313 %	95.376 %	103.821 %
Concentration per Run 1	0.014 ppb	97.086 %	95.014 %	0.191 ppb	357.239 ppb	97.272 %	95.779 %	95.300 %	98.139 %
Concentration per Run 2	0.006 ppb	94.211 %	102.386 %	0.188 ppb	336.312 ppb	97.047 %	99.325 %	97.867 %	104.530 %
Concentration per Run 3	0.011 ppb	95.128 %	102.833 %	0.231 ppb	328.589 ppb	97.426 %	102.835 %	92.962 %	108.794 %
Concentration RSD	37.8 %	1.5 %	4.4 %	11.8 %	4.4 %	0.2 %	3.6 %	2.6 %	5.2 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.054 ppb	0.019 ppb	91.294 %	95.067 %
Concentration per Run 1	0.054 ppb	0.020 ppb	91.414 %	90.797 %
Concentration per Run 2	0.056 ppb	0.019 ppb	90.971 %	96.397 %
Concentration per Run 3	0.051 ppb	0.018 ppb	91.497 %	98.006 %
Concentration RSD	4.2 %	5.7 %	0.3 %	4.0 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	98	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2430865-10 6020SL	Rack	2		
Analysis started at:	6/11/2024 9:47:32 PM	Vial	5		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	97.662 %	97.222 %	0.007 ppb	17,248.539 ppb	13,232.147 ppb	20.692 ppb	1,327.508 ppb	37,984.528 ppb	98.477 %
Concentration per Run 1	97.460 %	92.402 %	0.006 ppb	18,109.429 ppb	13,639.651 ppb	24.210 ppb	1,389.700 ppb	39,944.909 ppb	102.056 %
Concentration per Run 2	97.084 %	96.569 %	0.009 ppb	17,347.781 ppb	13,391.285 ppb	19.861 ppb	1,325.761 ppb	37,212.291 ppb	105.173 %
Concentration per Run 3	98.443 %	102.696 %	0.006 ppb	16,288.408 ppb	12,665.504 ppb	18.004 ppb	1,267.065 ppb	36,796.383 ppb	88.203 %
Concentration RSD	0.7 %	5.3 %	22.5 %	5.3 %	3.8 %	15.4 %	4.6 %	4.5 %	9.2 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	98.506 %	2.473 ppb	0.398 ppb	24.793 ppb	5.509 ppb	0.050 ppb	0.156 ppb	0.761 ppb	0.387 ppb
Concentration per Run 1	96.371 %	2.545 ppb	0.363 ppb	25.817 ppb	5.005 ppb	0.062 ppb	0.093 ppb	0.879 ppb	0.416 ppb
Concentration per Run 2	99.466 %	2.445 ppb	0.404 ppb	24.332 ppb	6.092 ppb	0.044 ppb	0.208 ppb	0.767 ppb	0.394 ppb
Concentration per Run 3	99.680 %	2.431 ppb	0.426 ppb	24.228 ppb	5.430 ppb	0.043 ppb	0.169 ppb	0.637 ppb	0.351 ppb
Concentration RSD	1.9 %	2.5 %	8.0 %	3.6 %	9.9 %	21.4 %	37.4 %	15.9 %	8.5 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	102.650 %	102.951 %	1.562 ppb	0.306 ppb	152.526 ppb	0.276 ppb	90.622 %	95.785 %	0.001 ppb
Concentration per Run 1	100.842 %	97.573 %	1.760 ppb	0.306 ppb	160.080 ppb	0.285 ppb	92.141 %	90.477 %	0.000 ppb
Concentration per Run 2	101.979 %	103.760 %	1.520 ppb	0.181 ppb	152.031 ppb	0.248 ppb	84.763 %	97.258 %	0.001 ppb
Concentration per Run 3	105.130 %	107.521 %	1.405 ppb	0.430 ppb	145.466 ppb	0.295 ppb	94.962 %	99.619 %	0.000 ppb
Concentration RSD	2.2 %	4.9 %	11.6 %	40.8 %	4.8 %	9.0 %	5.8 %	5.0 %	94.1 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.009 ppb	97.132 %	100.589 %	0.203 ppb	81.102 ppb	96.921 %	98.644 %	97.091 %	100.660 %
Concentration per Run 1	0.009 ppb	99.158 %	94.813 %	0.203 ppb	83.795 ppb	97.874 %	95.148 %	95.635 %	95.053 %
Concentration per Run 2	0.010 ppb	96.669 %	102.483 %	0.201 ppb	79.591 ppb	98.482 %	100.844 %	98.207 %	102.442 %
Concentration per Run 3	0.007 ppb	95.570 %	104.471 %	0.206 ppb	79.921 ppb	94.407 %	99.942 %	97.432 %	104.486 %
Concentration RSD	14.7 %	1.9 %	5.1 %	1.2 %	2.9 %	2.3 %	3.1 %	1.4 %	4.9 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.042 ppb	0.021 ppb	91.125 %	91.720 %
Concentration per Run 1	0.038 ppb	0.024 ppb	93.247 %	86.979 %
Concentration per Run 2	0.043 ppb	0.021 ppb	90.412 %	93.583 %
Concentration per Run 3	0.043 ppb	0.018 ppb	89.715 %	94.598 %
Concentration RSD	6.7 %	13.1 %	2.1 %	4.5 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index: 99 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: L2431274-13 6020SL Rack 2
Analysis started at: 6/11/2024 9:52:13 PM Vial 6

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	103.100 %	102.451 %	0.013 ppb	15,183.605 ppb	15,019.444 ppb	4.586 ppb	1,228.372 ppb	46,248.869 ppb	98.555 %
Concentration per Run 1	102.020 %	97.059 %	0.016 ppb	15,912.963 ppb	15,734.887 ppb	5.348 ppb	1,269.216 ppb	47,938.068 ppb	93.325 %
Concentration per Run 2	103.920 %	100.245 %	0.013 ppb	14,997.387 ppb	14,890.101 ppb	5.111 ppb	1,190.276 ppb	44,883.159 ppb	109.717 %
Concentration per Run 3	103.360 %	110.049 %	0.009 ppb	14,640.467 ppb	14,433.344 ppb	3.299 ppb	1,225.624 ppb	45,925.379 ppb	92.623 %
Concentration RSD	0.9 %	6.6 %	28.9 %	4.3 %	4.4 %	24.4 %	3.2 %	3.4 %	9.8 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	100.255 %	2.073 ppb	1.352 ppb	0.997 ppb	19.597 ppb	0.028 ppb	0.131 ppb	0.303 ppb	2.564 ppb
Concentration per Run 1	98.079 %	2.175 ppb	1.503 ppb	1.021 ppb	20.796 ppb	0.028 ppb	0.219 ppb	0.334 ppb	2.622 ppb
Concentration per Run 2	102.259 %	2.048 ppb	1.251 ppb	0.947 ppb	20.177 ppb	0.028 ppb	0.093 ppb	0.290 ppb	2.406 ppb
Concentration per Run 3	100.427 %	1.996 ppb	1.303 ppb	1.024 ppb	17.817 ppb	0.028 ppb	0.080 ppb	0.284 ppb	2.663 ppb
Concentration RSD	2.1 %	4.4 %	9.8 %	4.4 %	8.0 %	1.5 %	58.6 %	9.0 %	5.4 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	104.181 %	104.828 %	2.088 ppb	0.202 ppb	124.990 ppb	0.063 ppb	91.546 %	95.378 %	0.001 ppb
Concentration per Run 1	103.388 %	99.347 %	2.176 ppb	0.128 ppb	132.152 ppb	0.077 ppb	86.958 %	91.024 %	0.003 ppb
Concentration per Run 2	104.094 %	108.030 %	1.971 ppb	0.239 ppb	120.992 ppb	0.056 ppb	93.992 %	97.832 %	0.001 ppb
Concentration per Run 3	105.061 %	107.109 %	2.118 ppb	0.239 ppb	121.824 ppb	0.054 ppb	93.687 %	97.278 %	0.001 ppb
Concentration RSD	0.8 %	4.5 %	5.1 %	31.9 %	5.0 %	20.4 %	4.3 %	4.0 %	71.3 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.001 ppb	96.162 %	100.949 %	0.143 ppb	262.133 ppb	98.865 %	101.005 %	97.124 %	103.294 %
Concentration per Run 1	0.001 ppb	94.196 %	96.201 %	0.138 ppb	281.252 ppb	97.500 %	94.721 %	98.430 %	97.568 %
Concentration per Run 2	0.001 ppb	96.360 %	104.561 %	0.133 ppb	249.197 ppb	98.588 %	105.018 %	96.148 %	106.904 %
Concentration per Run 3	0.001 ppb	97.931 %	102.084 %	0.159 ppb	255.949 ppb	100.508 %	103.277 %	96.793 %	105.412 %
Concentration RSD	6.5 %	2.0 %	4.3 %	9.8 %	6.4 %	1.5 %	5.5 %	1.2 %	4.9 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.030 ppb	0.039 ppb	92.513 %	94.217 %
Concentration per Run 1	0.030 ppb	0.043 ppb	93.109 %	90.936 %
Concentration per Run 2	0.031 ppb	0.038 ppb	92.947 %	95.996 %
Concentration per Run 3	0.028 ppb	0.037 ppb	91.482 %	95.718 %
Concentration RSD	4.9 %	7.6 %	1.0 %	3.0 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	100	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2431274-14 6020SL	Rack	2		
Analysis started at:	6/11/2024 9:56:55 PM	Vial	7		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	101.081 %	98.529 %	0.008 ppb	11,053.943 ppb	21,200.727 ppb	4.008 ppb	1,253.664 ppb	64,850.364 ppb	95.732 %
Concentration per Run 1	101.133 %	100.490 %	0.011 ppb	11,246.616 ppb	21,532.905 ppb	3.585 ppb	1,267.126 ppb	66,460.568 ppb	108.329 %
Concentration per Run 2	100.111 %	99.265 %	0.007 ppb	10,856.831 ppb	20,626.456 ppb	5.293 ppb	1,242.937 ppb	65,637.965 ppb	88.122 %
Concentration per Run 3	101.998 %	95.833 %	0.006 ppb	11,058.383 ppb	21,442.820 ppb	3.146 ppb	1,250.929 ppb	62,452.558 ppb	90.743 %
Concentration RSD	0.9 %	2.4 %	33.7 %	1.8 %	2.4 %	28.3 %	1.0 %	3.3 %	11.5 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	98.595 %	2.790 ppb	10.527 ppb	0.411 ppb	6.063 ppb	0.029 ppb	0.042 ppb	0.262 ppb	1.485 ppb
Concentration per Run 1	96.745 %	2.944 ppb	11.083 ppb	0.448 ppb	6.236 ppb	0.025 ppb	-0.008 ppb	0.295 ppb	1.552 ppb
Concentration per Run 2	97.741 %	2.806 ppb	10.521 ppb	0.376 ppb	5.281 ppb	0.030 ppb	0.079 ppb	0.222 ppb	1.538 ppb
Concentration per Run 3	101.299 %	2.621 ppb	9.977 ppb	0.409 ppb	6.673 ppb	0.033 ppb	0.056 ppb	0.268 ppb	1.364 ppb
Concentration RSD	2.4 %	5.8 %	5.3 %	8.8 %	11.7 %	13.3 %	106.7 %	14.1 %	7.1 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	102.166 %	104.543 %	2.005 ppb	0.431 ppb	169.882 ppb	0.095 ppb	90.794 %	96.099 %	0.001 ppb
Concentration per Run 1	101.372 %	100.359 %	2.059 ppb	0.502 ppb	179.912 ppb	0.089 ppb	84.814 %	91.801 %	0.000 ppb
Concentration per Run 2	102.377 %	107.044 %	1.882 ppb	0.342 ppb	163.357 ppb	0.118 ppb	92.424 %	98.398 %	0.001 ppb
Concentration per Run 3	102.750 %	106.225 %	2.075 ppb	0.450 ppb	166.377 ppb	0.078 ppb	95.144 %	98.098 %	0.001 ppb
Concentration RSD	0.7 %	3.5 %	5.3 %	18.9 %	5.2 %	21.7 %	5.9 %	3.9 %	80.7 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.002 ppb	96.073 %	98.639 %	0.136 ppb	452.848 ppb	97.293 %	97.311 %	96.536 %	98.708 %
Concentration per Run 1	0.002 ppb	95.681 %	91.354 %	0.170 ppb	482.669 ppb	96.375 %	92.599 %	97.494 %	93.625 %
Concentration per Run 2	0.004 ppb	95.184 %	101.841 %	0.127 ppb	437.393 ppb	96.576 %	98.018 %	95.576 %	100.129 %
Concentration per Run 3	0.001 ppb	97.352 %	102.722 %	0.110 ppb	438.482 ppb	98.928 %	101.317 %	96.539 %	102.371 %
Concentration RSD	74.0 %	1.2 %	6.4 %	22.7 %	5.7 %	1.5 %	4.5 %	1.0 %	4.6 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.023 ppb	0.825 ppb	92.468 %	92.849 %
Concentration per Run 1	0.023 ppb	0.895 ppb	92.833 %	87.653 %
Concentration per Run 2	0.022 ppb	0.793 ppb	90.843 %	94.455 %
Concentration per Run 3	0.024 ppb	0.786 ppb	93.728 %	96.438 %
Concentration RSD	4.2 %	7.4 %	1.6 %	5.0 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	101	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2431274-15 6020SL	Rack	2		
Analysis started at:	6/11/2024 10:01:36 PM	Vial	8		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	99.565 %	101.961 %	0.006 ppb	9,757.813 ppb	19,497.063 ppb	7.257 ppb	1,475.501 ppb	48,223.185 ppb	107.034 %
Concentration per Run 1	98.789 %	100.245 %	0.007 ppb	10,103.359 ppb	20,005.721 ppb	8.221 ppb	1,534.001 ppb	48,976.550 ppb	105.110 %
Concentration per Run 2	100.114 %	99.755 %	0.003 ppb	9,695.127 ppb	19,402.900 ppb	8.890 ppb	1,451.278 ppb	47,535.534 ppb	105.812 %
Concentration per Run 3	99.792 %	105.882 %	0.009 ppb	9,474.953 ppb	19,082.569 ppb	4.660 ppb	1,441.226 ppb	48,157.472 ppb	110.179 %
Concentration RSD	0.7 %	3.3 %	44.4 %	3.3 %	2.4 %	31.3 %	3.5 %	1.5 %	2.6 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	99.455 %	3.095 ppb	9.239 ppb	0.740 ppb	14.398 ppb	0.015 ppb	0.011 ppb	0.142 ppb	0.725 ppb
Concentration per Run 1	98.025 %	3.252 ppb	9.727 ppb	0.752 ppb	15.073 ppb	0.016 ppb	-0.029 ppb	0.165 ppb	0.732 ppb
Concentration per Run 2	101.743 %	3.071 ppb	8.813 ppb	0.733 ppb	14.402 ppb	0.016 ppb	0.005 ppb	0.133 ppb	0.710 ppb
Concentration per Run 3	98.595 %	2.962 ppb	9.177 ppb	0.737 ppb	13.720 ppb	0.014 ppb	0.055 ppb	0.126 ppb	0.733 ppb
Concentration RSD	2.0 %	4.7 %	5.0 %	1.4 %	4.7 %	7.6 %	403.2 %	14.4 %	1.8 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	102.415 %	103.200 %	4.351 ppb	0.802 ppb	225.002 ppb	0.163 ppb	90.763 %	95.314 %	0.001 ppb
Concentration per Run 1	102.263 %	98.971 %	4.598 ppb	0.873 ppb	236.361 ppb	0.175 ppb	85.133 %	92.605 %	0.001 ppb
Concentration per Run 2	101.396 %	104.687 %	4.186 ppb	0.750 ppb	220.440 ppb	0.165 ppb	92.911 %	95.670 %	0.002 ppb
Concentration per Run 3	103.587 %	105.941 %	4.268 ppb	0.783 ppb	218.204 ppb	0.148 ppb	94.245 %	97.666 %	0.001 ppb
Concentration RSD	1.1 %	3.6 %	5.0 %	7.9 %	4.4 %	8.6 %	5.4 %	2.7 %	44.2 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.001 ppb	97.327 %	101.141 %	0.146 ppb	296.075 ppb	97.243 %	99.914 %	96.202 %	102.016 %
Concentration per Run 1	0.001 ppb	98.667 %	96.215 %	0.132 ppb	313.905 ppb	97.605 %	93.764 %	96.655 %	96.361 %
Concentration per Run 2	0.000 ppb	95.499 %	102.230 %	0.144 ppb	288.909 ppb	98.084 %	103.867 %	98.111 %	103.593 %
Concentration per Run 3	0.002 ppb	97.815 %	104.978 %	0.161 ppb	285.412 ppb	96.039 %	102.111 %	93.842 %	106.093 %
Concentration RSD	150.7 %	1.7 %	4.4 %	10.2 %	5.2 %	1.1 %	5.4 %	2.3 %	5.0 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.019 ppb	0.034 ppb	93.203 %	93.047 %
Concentration per Run 1	0.021 ppb	0.033 ppb	92.531 %	89.633 %
Concentration per Run 2	0.020 ppb	0.035 ppb	93.788 %	93.054 %
Concentration per Run 3	0.017 ppb	0.033 ppb	93.290 %	96.454 %
Concentration RSD	9.6 %	3.6 %	0.7 %	3.7 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index: 102 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: L2432185-01 6020SL Rack 2
Analysis started at: 6/11/2024 10:06:18 PM Vial 9

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	103.698 %	106.373 %	0.071 ppb	11,816.257 ppb	12,218.042 ppb	467.184 ppb	6,309.831 ppb	42,438.748 ppb	98.829 %
Concentration per Run 1	103.506 %	106.128 %	0.072 ppb	12,014.298 ppb	12,501.022 ppb	463.904 ppb	6,410.408 ppb	43,974.434 ppb	90.702 %
Concentration per Run 2	103.674 %	111.030 %	0.068 ppb	11,561.785 ppb	11,786.480 ppb	479.391 ppb	6,289.420 ppb	42,053.190 ppb	107.900 %
Concentration per Run 3	103.916 %	101.961 %	0.073 ppb	11,872.687 ppb	12,366.623 ppb	458.256 ppb	6,229.665 ppb	41,288.619 ppb	97.885 %
Concentration RSD	0.2 %	4.3 %	3.4 %	2.0 %	3.1 %	2.3 %	1.5 %	3.3 %	8.7 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	98.992 %	2.491 ppb	2.715 ppb	260.778 ppb	3,401.646 ppb	1.729 ppb	6.410 ppb	4.047 ppb	173.578 ppb
Concentration per Run 1	98.239 %	2.740 ppb	2.911 ppb	270.969 ppb	3,590.114 ppb	1.810 ppb	7.008 ppb	4.314 ppb	183.891 ppb
Concentration per Run 2	98.168 %	2.420 ppb	2.533 ppb	258.940 ppb	3,299.406 ppb	1.657 ppb	6.023 ppb	3.925 ppb	170.551 ppb
Concentration per Run 3	100.569 %	2.314 ppb	2.701 ppb	252.424 ppb	3,315.419 ppb	1.721 ppb	6.200 ppb	3.904 ppb	166.291 ppb
Concentration RSD	1.4 %	8.9 %	7.0 %	3.6 %	4.8 %	4.4 %	8.2 %	5.7 %	5.3 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	103.713 %	104.081 %	1.452 ppb	0.986 ppb	280.566 ppb	0.745 ppb	93.617 %	95.567 %	0.014 ppb
Concentration per Run 1	101.338 %	98.126 %	1.657 ppb	1.173 ppb	299.474 ppb	0.765 ppb	93.926 %	90.146 %	0.014 ppb
Concentration per Run 2	105.058 %	107.275 %	1.317 ppb	1.001 ppb	266.777 ppb	0.736 ppb	93.812 %	98.189 %	0.016 ppb
Concentration per Run 3	104.744 %	106.841 %	1.381 ppb	0.784 ppb	275.446 ppb	0.733 ppb	93.113 %	98.366 %	0.014 ppb
Concentration RSD	2.0 %	5.0 %	12.4 %	19.8 %	6.0 %	2.4 %	0.5 %	4.9 %	8.0 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.179 ppb	95.762 %	98.499 %	0.189 ppb	111.520 ppb	96.037 %	99.013 %	95.676 %	100.028 %
Concentration per Run 1	0.193 ppb	95.870 %	93.038 %	0.216 ppb	120.873 ppb	94.637 %	92.456 %	95.684 %	94.035 %
Concentration per Run 2	0.182 ppb	94.901 %	99.972 %	0.172 ppb	109.921 ppb	95.473 %	102.559 %	93.860 %	102.863 %
Concentration per Run 3	0.161 ppb	96.513 %	102.488 %	0.177 ppb	103.768 ppb	98.002 %	102.024 %	97.485 %	103.187 %
Concentration RSD	9.0 %	0.8 %	5.0 %	12.6 %	7.8 %	1.8 %	5.7 %	1.9 %	5.2 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.024 ppb	19.223 ppb	91.632 %	92.163 %
Concentration per Run 1	0.024 ppb	20.771 ppb	91.793 %	86.867 %
Concentration per Run 2	0.021 ppb	18.644 ppb	93.212 %	93.486 %
Concentration per Run 3	0.026 ppb	18.256 ppb	89.891 %	96.136 %
Concentration RSD	10.6 %	7.0 %	1.8 %	5.2 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	103	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2432185-02 6020SL	Rack	2		
Analysis started at:	6/11/2024 10:11:00 PM	Vial	10		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	116.726 %	118.301 %	0.013 ppb	25,952.288 ppb	14,025.950 ppb	128.493 ppb	10,236.980 ppb	72,604.805 ppb	96.416 %
Concentration per Run 1	116.603 %	123.040 %	0.017 ppb	25,400.217 ppb	14,080.543 ppb	125.373 ppb	10,380.331 ppb	74,733.015 ppb	96.627 %
Concentration per Run 2	116.549 %	118.873 %	0.010 ppb	25,993.566 ppb	13,739.189 ppb	132.543 ppb	10,215.006 ppb	72,350.789 ppb	97.704 %
Concentration per Run 3	117.026 %	112.990 %	0.013 ppb	26,463.083 ppb	14,258.119 ppb	127.563 ppb	10,115.602 ppb	70,730.611 ppb	94.917 %
Concentration RSD	0.2 %	4.3 %	29.2 %	2.1 %	1.9 %	2.9 %	1.3 %	2.8 %	1.5 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	105.800 %	1.932 ppb	3.496 ppb	740.050 ppb	9,059.772 ppb	0.261 ppb	0.430 ppb	0.982 ppb	5.576 ppb
Concentration per Run 1	102.935 %	1.963 ppb	3.575 ppb	752.604 ppb	9,258.066 ppb	0.281 ppb	0.504 ppb	0.913 ppb	5.526 ppb
Concentration per Run 2	105.248 %	1.855 ppb	3.478 ppb	742.000 ppb	9,180.145 ppb	0.251 ppb	0.385 ppb	1.040 ppb	5.692 ppb
Concentration per Run 3	109.215 %	1.980 ppb	3.434 ppb	725.546 ppb	8,741.106 ppb	0.250 ppb	0.402 ppb	0.993 ppb	5.508 ppb
Concentration RSD	3.0 %	3.5 %	2.1 %	1.8 %	3.1 %	6.7 %	15.0 %	6.5 %	1.8 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	105.947 %	108.581 %	1.020 ppb	0.292 ppb	388.699 ppb	1.614 ppb	90.122 %	95.536 %	0.011 ppb
Concentration per Run 1	106.138 %	108.121 %	0.988 ppb	0.335 ppb	389.198 ppb	1.581 ppb	95.196 %	93.577 %	0.011 ppb
Concentration per Run 2	104.820 %	108.078 %	1.097 ppb	0.213 ppb	382.512 ppb	1.552 ppb	85.081 %	95.844 %	0.011 ppb
Concentration per Run 3	106.882 %	109.546 %	0.976 ppb	0.328 ppb	394.385 ppb	1.707 ppb	90.089 %	97.187 %	0.010 ppb
Concentration RSD	1.0 %	0.8 %	6.6 %	23.4 %	1.5 %	5.1 %	5.6 %	1.9 %	8.0 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.008 ppb	92.614 %	99.945 %	0.097 ppb	519.236 ppb	95.659 %	99.922 %	95.076 %	101.358 %
Concentration per Run 1	0.005 ppb	92.096 %	98.351 %	0.087 ppb	522.256 ppb	98.610 %	98.702 %	96.136 %	101.034 %
Concentration per Run 2	0.008 ppb	91.606 %	99.602 %	0.081 ppb	515.360 ppb	93.029 %	99.834 %	93.569 %	99.910 %
Concentration per Run 3	0.011 ppb	94.140 %	101.880 %	0.123 ppb	520.091 ppb	95.337 %	101.231 %	95.524 %	103.131 %
Concentration RSD	34.2 %	1.5 %	1.8 %	23.0 %	0.7 %	2.9 %	1.3 %	1.4 %	1.6 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.019 ppb	4.451 ppb	87.285 %	92.453 %
Concentration per Run 1	0.018 ppb	4.530 ppb	88.083 %	91.301 %
Concentration per Run 2	0.019 ppb	4.498 ppb	86.400 %	91.564 %
Concentration per Run 3	0.020 ppb	4.326 ppb	87.373 %	94.494 %
Concentration RSD	5.0 %	2.5 %	1.0 %	1.9 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index: 104
Analysis label: L2432185-03 6020SL
Analysis started at: 6/11/2024 10:15:43 PM
User name ALPHALAB\ICPMSRQ
Rack 2
Vial 11
Comment <Comment>

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	104.435 %	106.945 %	0.010 ppb	26,834.142 ppb	4,134.167 ppb	85.438 ppb	15,519.952 ppb	42,514.368 ppb	99.888 %
Concentration per Run 1	105.247 %	102.696 %	0.011 ppb	28,239.431 ppb	4,373.943 ppb	96.703 ppb	16,134.240 ppb	44,250.677 ppb	103.528 %
Concentration per Run 2	104.428 %	113.481 %	0.008 ppb	25,679.397 ppb	3,934.232 ppb	68.114 ppb	15,311.570 ppb	42,072.527 ppb	88.148 %
Concentration per Run 3	103.631 %	104.657 %	0.009 ppb	26,583.599 ppb	4,094.325 ppb	91.498 ppb	15,114.045 ppb	41,219.901 ppb	107.988 %
Concentration RSD	0.8 %	5.4 %	17.4 %	4.8 %	5.4 %	17.8 %	3.5 %	3.7 %	10.4 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	96.685 %	1.235 ppb	137.916 ppb	181.785 ppb	987.337 ppb	0.375 ppb	1.494 ppb	1.631 ppb	6.312 ppb
Concentration per Run 1	92.956 %	1.175 ppb	146.037 ppb	192.471 ppb	1,058.682 ppb	0.406 ppb	1.576 ppb	1.737 ppb	6.635 ppb
Concentration per Run 2	96.495 %	1.199 ppb	135.756 ppb	177.806 ppb	954.314 ppb	0.368 ppb	1.347 ppb	1.583 ppb	6.142 ppb
Concentration per Run 3	100.605 %	1.332 ppb	131.955 ppb	175.077 ppb	949.014 ppb	0.351 ppb	1.561 ppb	1.573 ppb	6.159 ppb
Concentration RSD	4.0 %	6.9 %	5.3 %	5.1 %	6.3 %	7.6 %	8.6 %	5.6 %	4.4 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	110.652 %	111.166 %	2.068 ppb	0.334 ppb	195.603 ppb	2.272 ppb	93.548 %	94.512 %	0.006 ppb
Concentration per Run 1	109.761 %	104.542 %	2.132 ppb	0.452 ppb	208.682 ppb	2.438 ppb	93.812 %	87.997 %	0.007 ppb
Concentration per Run 2	112.240 %	114.437 %	2.038 ppb	0.260 ppb	186.764 ppb	2.235 ppb	94.127 %	96.656 %	0.006 ppb
Concentration per Run 3	109.956 %	114.518 %	2.035 ppb	0.291 ppb	191.362 ppb	2.141 ppb	92.704 %	98.882 %	0.005 ppb
Concentration RSD	1.2 %	5.2 %	2.7 %	30.9 %	5.9 %	6.7 %	0.8 %	6.1 %	16.9 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.017 ppb	93.996 %	98.603 %	0.164 ppb	131.179 ppb	93.747 %	97.732 %	94.797 %	98.419 %
Concentration per Run 1	0.017 ppb	93.726 %	93.026 %	0.169 ppb	139.280 ppb	93.416 %	91.449 %	97.038 %	91.573 %
Concentration per Run 2	0.018 ppb	94.256 %	101.462 %	0.155 ppb	126.244 ppb	93.058 %	100.043 %	95.459 %	101.480 %
Concentration per Run 3	0.016 ppb	94.007 %	101.320 %	0.168 ppb	128.012 ppb	94.768 %	101.705 %	91.893 %	102.205 %
Concentration RSD	3.7 %	0.3 %	4.9 %	4.6 %	5.4 %	1.0 %	5.6 %	2.8 %	6.0 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.012 ppb	4.828 ppb	88.044 %	90.703 %
Concentration per Run 1	0.012 ppb	5.111 ppb	88.226 %	86.686 %
Concentration per Run 2	0.009 ppb	4.685 ppb	88.042 %	91.241 %
Concentration per Run 3	0.014 ppb	4.688 ppb	87.864 %	94.184 %
Concentration RSD	19.2 %	5.1 %	0.2 %	4.2 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	105	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2432185-04 6020SL	Rack	2		
Analysis started at:	6/11/2024 10:20:26 PM	Vial	12		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	95.694 %	93.709 %	0.013 ppb	31,269.755 ppb	12,357.564 ppb	14.872 ppb	5,964.642 ppb	35,322.032 ppb	100.877 %
Concentration per Run 1	94.852 %	96.324 %	0.015 ppb	31,938.592 ppb	12,684.318 ppb	14.233 ppb	6,202.190 ppb	37,541.528 ppb	103.620 %
Concentration per Run 2	95.945 %	103.186 %	0.012 ppb	28,838.279 ppb	11,296.696 ppb	14.990 ppb	5,732.033 ppb	33,856.297 ppb	108.288 %
Concentration per Run 3	96.284 %	81.617 %	0.013 ppb	33,032.394 ppb	13,091.679 ppb	15.391 ppb	5,959.702 ppb	34,568.270 ppb	90.722 %
Concentration RSD	0.8 %	11.8 %	10.1 %	7.0 %	7.6 %	4.0 %	3.9 %	5.5 %	9.0 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	98.695 %	0.274 ppb	0.272 ppb	1,959.036 ppb	18,615.939 ppb	0.102 ppb	0.183 ppb	0.312 ppb	4.442 ppb
Concentration per Run 1	95.375 %	0.297 ppb	0.256 ppb	2,025.922 ppb	19,825.286 ppb	0.089 ppb	0.177 ppb	0.339 ppb	4.844 ppb
Concentration per Run 2	100.498 %	0.280 ppb	0.279 ppb	1,932.845 ppb	18,403.982 ppb	0.099 ppb	0.178 ppb	0.296 ppb	4.316 ppb
Concentration per Run 3	100.213 %	0.246 ppb	0.280 ppb	1,918.342 ppb	17,618.549 ppb	0.116 ppb	0.193 ppb	0.300 ppb	4.168 ppb
Concentration RSD	2.9 %	9.5 %	4.9 %	3.0 %	6.0 %	13.8 %	5.1 %	7.6 %	8.0 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	106.004 %	103.044 %	0.269 ppb	0.057 ppb	204.154 ppb	0.397 ppb	91.687 %	94.061 %	0.001 ppb
Concentration per Run 1	105.570 %	96.647 %	0.280 ppb	0.056 ppb	216.619 ppb	0.413 ppb	86.839 %	88.339 %	0.002 ppb
Concentration per Run 2	105.910 %	103.701 %	0.285 ppb	0.099 ppb	200.470 ppb	0.371 ppb	94.104 %	95.570 %	0.001 ppb
Concentration per Run 3	106.532 %	108.785 %	0.242 ppb	0.015 ppb	195.373 ppb	0.408 ppb	94.117 %	98.274 %	0.001 ppb
Concentration RSD	0.5 %	5.9 %	8.8 %	74.5 %	5.4 %	5.7 %	4.6 %	5.5 %	47.7 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.002 ppb	95.053 %	98.547 %	0.024 ppb	163.241 ppb	96.078 %	98.538 %	94.889 %	100.095 %
Concentration per Run 1	0.001 ppb	96.258 %	90.941 %	0.040 ppb	177.029 ppb	96.680 %	90.455 %	93.677 %	90.071 %
Concentration per Run 2	0.004 ppb	95.560 %	99.116 %	0.020 ppb	158.681 ppb	95.992 %	103.190 %	96.416 %	105.271 %
Concentration per Run 3	0.001 ppb	93.342 %	105.584 %	0.012 ppb	154.014 ppb	95.563 %	101.968 %	94.574 %	104.942 %
Concentration RSD	103.4 %	1.6 %	7.4 %	61.2 %	7.5 %	0.6 %	7.1 %	1.5 %	8.7 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.010 ppb	0.453 ppb	88.926 %	90.288 %
Concentration per Run 1	0.011 ppb	0.494 ppb	88.970 %	83.656 %
Concentration per Run 2	0.010 ppb	0.442 ppb	88.302 %	93.261 %
Concentration per Run 3	0.009 ppb	0.422 ppb	89.504 %	93.947 %
Concentration RSD	7.2 %	8.3 %	0.7 %	6.4 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index: 106
Analysis label: CCV
Analysis started at: 6/11/2024 10:25:09 PM
User name ALPHALAB\ICPMSRQ
Rack 0
Vial 9
Comment <Comment>

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	96.275 %	95.833 %	61.236 ppb	6,152.988 ppb	6,214.366 ppb	62.390 ppb	6,575.881 ppb	6,330.310 ppb	101.142 %
Concentration per Run 1	96.311 %	100.245 %	61.824 ppb	6,119.016 ppb	6,425.089 ppb	72.623 ppb	6,792.502 ppb	6,683.578 ppb	100.121 %
Concentration per Run 2	97.287 %	88.480 %	60.091 ppb	6,412.821 ppb	6,339.852 ppb	56.482 ppb	6,625.652 ppb	6,030.137 ppb	101.870 %
Concentration per Run 3	95.226 %	98.775 %	61.792 ppb	5,927.127 ppb	5,878.158 ppb	58.066 ppb	6,309.489 ppb	6,277.214 ppb	101.435 %
Recovery Percentage 1			102.060 %	102.550 %	103.573 %	103.984 %	109.598 %	105.505 %	
Concentration RSD	1.1 %	6.7 %	1.6 %	4.0 %	4.7 %	14.3 %	3.7 %	5.2 %	0.9 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	102.645 %	63.931 ppb	62.076 ppb	64.071 ppb	6,286.498 ppb	61.832 ppb	60.877 ppb	61.802 ppb	62.676 ppb
Concentration per Run 1	101.281 %	66.893 ppb	64.190 ppb	66.362 ppb	6,658.113 ppb	64.433 ppb	64.289 ppb	66.312 ppb	66.686 ppb
Concentration per Run 2	101.548 %	63.576 ppb	62.145 ppb	64.464 ppb	6,243.204 ppb	61.608 ppb	60.540 ppb	60.443 ppb	61.624 ppb
Concentration per Run 3	105.106 %	61.325 ppb	59.893 ppb	61.385 ppb	5,958.178 ppb	59.454 ppb	57.801 ppb	58.652 ppb	59.720 ppb
Recovery Percentage 1		106.552 %	103.460 %	106.784 %	104.775 %	103.053 %	101.462 %	103.004 %	104.461 %
Concentration RSD	2.1 %	4.4 %	3.5 %	3.9 %	5.6 %	4.0 %	5.4 %	6.5 %	5.7 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	100.608 %	102.880 %	60.797 ppb	59.521 ppb	62.337 ppb	60.919 ppb	95.172 %	96.866 %	61.711 ppb
Concentration per Run 1	100.734 %	98.679 %	64.785 ppb	61.950 ppb	64.941 ppb	63.297 ppb	94.807 %	91.293 %	66.338 ppb
Concentration per Run 2	100.097 %	103.182 %	59.794 ppb	59.324 ppb	62.155 ppb	59.830 ppb	95.311 %	98.767 %	59.441 ppb
Concentration per Run 3	100.993 %	106.779 %	57.813 ppb	57.290 ppb	59.915 ppb	59.631 ppb	95.398 %	100.539 %	59.355 ppb
Recovery Percentage 1			101.329 %	99.202 %	103.895 %	101.532 %			102.852 %
Concentration RSD	0.5 %	3.9 %	5.9 %	3.9 %	4.0 %	3.4 %	0.3 %	5.1 %	6.5 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	60.750 ppb	96.309 %	99.845 %	58.540 ppb	60.588 ppb	95.367 %	97.465 %	95.555 %	99.946 %
Concentration per Run 1	65.402 ppb	96.683 %	93.529 %	62.637 ppb	64.918 ppb	97.070 %	91.601 %	94.431 %	92.193 %
Concentration per Run 2	58.465 ppb	96.489 %	103.172 %	56.661 ppb	58.387 ppb	94.658 %	98.697 %	96.415 %	102.972 %
Concentration per Run 3	58.384 ppb	95.754 %	102.833 %	56.324 ppb	58.458 ppb	94.373 %	102.095 %	95.818 %	104.672 %
Recovery Percentage 1	101.250 %			97.567 %	100.980 %				
Concentration RSD	6.6 %	0.5 %	5.5 %	6.1 %	6.2 %	1.6 %	5.5 %	1.1 %	6.8 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	60.685 ppb	60.788 ppb	91.790 %	93.285 %
Concentration per Run 1	60.959 ppb	66.038 ppb	91.686 %	85.907 %
Concentration per Run 2	57.295 ppb	59.018 ppb	93.913 %	96.050 %
Concentration per Run 3	63.800 ppb	57.310 ppb	89.772 %	97.898 %
Recovery Percentage 1	101.141 %	101.314 %		
Concentration RSD	5.4 %	7.6 %	2.3 %	6.9 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	107	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/11/2024 10:29:55 PM	Vial	10		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	97.785 %	101.879 %	0.020 ppb	-0.012 ppb	1.037 ppb	0.141 ppb	15.430 ppb	4.218 ppb	98.335 %
Concentration per Run 1	98.040 %	102.451 %	0.022 ppb	0.366 ppb	1.309 ppb	0.970 ppb	20.714 ppb	-7.625 ppb	99.064 %
Concentration per Run 2	97.783 %	102.451 %	0.014 ppb	-1.266 ppb	0.989 ppb	-0.687 ppb	14.998 ppb	-7.548 ppb	99.684 %
Concentration per Run 3	97.532 %	100.735 %	0.023 ppb	0.866 ppb	0.811 ppb	0.140 ppb	10.576 ppb	27.828 ppb	96.257 %
Recovery Percentage 1			3.962 %	-0.012 %	1.481 %	1.414 %	15.430 %	4.218 %	
Concentration RSD	0.3 %	1.0 %	25.8 %	9,553.1 %	24.3 %	586.1 %	32.9 %	484.7 %	1.9 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	100.095 %	0.013 ppb	0.002 ppb	0.230 ppb	4.646 ppb	0.011 ppb	0.070 ppb	0.025 ppb	0.415 ppb
Concentration per Run 1	100.071 %	0.013 ppb	-0.012 ppb	0.245 ppb	3.914 ppb	0.015 ppb	0.075 ppb	0.029 ppb	0.466 ppb
Concentration per Run 2	98.684 %	0.009 ppb	0.000 ppb	0.221 ppb	4.828 ppb	0.011 ppb	0.102 ppb	0.034 ppb	0.443 ppb
Concentration per Run 3	101.530 %	0.017 ppb	0.018 ppb	0.226 ppb	5.198 ppb	0.006 ppb	0.034 ppb	0.012 ppb	0.335 ppb
Recovery Percentage 1		0.262 %	0.170 %	23.048 %	9.293 %	2.147 %	3.516 %	2.479 %	8.295 %
Concentration RSD	1.4 %	31.3 %	883.0 %	5.4 %	14.2 %	45.4 %	48.0 %	46.4 %	16.9 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	98.738 %	105.750 %	0.047 ppb	0.161 ppb	0.036 ppb	0.162 ppb	99.546 %	102.851 %	0.012 ppb
Concentration per Run 1	100.262 %	101.537 %	0.077 ppb	-0.020 ppb	0.021 ppb	0.146 ppb	101.915 %	101.070 %	0.016 ppb
Concentration per Run 2	97.223 %	107.677 %	0.026 ppb	0.269 ppb	0.024 ppb	0.160 ppb	96.724 %	104.234 %	0.009 ppb
Concentration per Run 3	98.727 %	108.035 %	0.039 ppb	0.234 ppb	0.062 ppb	0.179 ppb	100.000 %	103.248 %	0.009 ppb
Recovery Percentage 1			9.464 %	3.212 %	7.148 %	8.082 %			2.887 %
Concentration RSD	1.5 %	3.5 %	55.2 %	98.2 %	63.2 %	10.4 %	2.6 %	1.6 %	35.0 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.005 ppb	97.805 %	105.764 %	0.618 ppb	0.039 ppb	97.259 %	100.788 %	95.869 %	104.147 %
Concentration per Run 1	0.011 ppb	100.480 %	103.815 %	0.534 ppb	0.042 ppb	97.433 %	96.935 %	96.050 %	100.540 %
Concentration per Run 2	0.005 ppb	97.092 %	105.916 %	0.638 ppb	0.034 ppb	96.428 %	103.553 %	94.098 %	105.419 %
Concentration per Run 3	0.001 ppb	95.842 %	107.562 %	0.681 ppb	0.039 ppb	97.917 %	101.878 %	97.458 %	106.483 %
Recovery Percentage 1				15.445 %	7.723 %				
Concentration RSD	92.0 %	2.5 %	1.8 %	12.2 %	9.9 %	0.8 %	3.4 %	1.8 %	3.0 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.129 ppb	0.010 ppb	95.664 %	101.757 %
Concentration per Run 1	0.139 ppb	0.013 ppb	96.418 %	97.866 %
Concentration per Run 2	0.130 ppb	0.010 ppb	96.017 %	102.269 %
Concentration per Run 3	0.120 ppb	0.008 ppb	94.557 %	105.136 %
Recovery Percentage 1	12.938 %	1.045 %		
Concentration RSD	7.4 %	26.3 %	1.0 %	3.6 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	108	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	WG1931254-1 6020TL	Rack	2		
Analysis started at:	6/11/2024 10:34:41 PM	Vial	17		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	97.678 %	93.954 %	0.010 ppb	0.872 ppb	1.558 ppb	2.768 ppb	12.619 ppb	3.432 ppb	97.625 %
Concentration per Run 1	98.095 %	82.108 %	0.012 ppb	5.774 ppb	1.013 ppb	3.228 ppb	22.238 ppb	9.363 ppb	96.841 %
Concentration per Run 2	97.453 %	99.755 %	0.012 ppb	-2.500 ppb	1.577 ppb	3.616 ppb	8.429 ppb	-10.836 ppb	98.101 %
Concentration per Run 3	97.487 %	100.000 %	0.007 ppb	-0.658 ppb	2.084 ppb	1.460 ppb	7.188 ppb	11.768 ppb	97.932 %
Concentration RSD	0.4 %	10.9 %	27.0 %	498.2 %	34.4 %	41.5 %	66.2 %	361.8 %	0.7 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	94.817 %	0.008 ppb	0.069 ppb	0.306 ppb	16.092 ppb	0.008 ppb	-0.009 ppb	1.741 ppb	1.422 ppb
Concentration per Run 1	91.604 %	0.002 ppb	0.094 ppb	0.334 ppb	19.494 ppb	0.011 ppb	0.006 ppb	1.898 ppb	1.595 ppb
Concentration per Run 2	96.175 %	0.028 ppb	0.068 ppb	0.278 ppb	14.699 ppb	0.007 ppb	-0.002 ppb	1.723 ppb	1.359 ppb
Concentration per Run 3	96.673 %	-0.004 ppb	0.046 ppb	0.305 ppb	14.084 ppb	0.005 ppb	-0.032 ppb	1.601 ppb	1.312 ppb
Concentration RSD	2.9 %	205.7 %	34.2 %	9.1 %	18.4 %	44.4 %	219.9 %	8.6 %	10.7 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	99.997 %	103.982 %	0.032 ppb	0.086 ppb	0.009 ppb	0.046 ppb	98.587 %	100.771 %	0.004 ppb
Concentration per Run 1	100.236 %	98.216 %	0.035 ppb	0.128 ppb	0.025 ppb	0.042 ppb	98.620 %	95.223 %	0.003 ppb
Concentration per Run 2	99.505 %	108.415 %	0.006 ppb	0.110 ppb	0.001 ppb	0.042 ppb	99.478 %	102.123 %	0.003 ppb
Concentration per Run 3	100.251 %	105.314 %	0.055 ppb	0.021 ppb	0.003 ppb	0.053 ppb	97.663 %	104.967 %	0.004 ppb
Concentration RSD	0.4 %	5.0 %	77.4 %	66.3 %	138.8 %	13.5 %	0.9 %	5.0 %	18.5 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.001 ppb	98.583 %	101.634 %	0.120 ppb	0.084 ppb	97.199 %	99.860 %	96.180 %	100.539 %
Concentration per Run 1	0.001 ppb	96.719 %	95.388 %	0.080 ppb	0.107 ppb	97.839 %	94.036 %	93.802 %	93.866 %
Concentration per Run 2	0.001 ppb	99.147 %	103.682 %	0.143 ppb	0.056 ppb	97.957 %	101.963 %	97.665 %	102.258 %
Concentration per Run 3	0.001 ppb	99.883 %	105.831 %	0.137 ppb	0.090 ppb	95.800 %	103.582 %	97.072 %	105.492 %
Concentration RSD	8.4 %	1.7 %	5.4 %	29.1 %	30.8 %	1.2 %	5.1 %	2.2 %	6.0 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.045 ppb	0.051 ppb	97.971 %	96.563 %
Concentration per Run 1	0.045 ppb	0.058 ppb	99.129 %	92.040 %
Concentration per Run 2	0.043 ppb	0.047 ppb	97.074 %	97.871 %
Concentration per Run 3	0.046 ppb	0.048 ppb	97.709 %	99.778 %
Concentration RSD	3.5 %	11.9 %	1.1 %	4.2 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index: 109
Analysis label: WG1931254-2d10 6020TL
Analysis started at: 6/11/2024 10:39:23 PM
User name ALPHALAB\ICPMSRQ
Rack 2
Vial 18
Comment <Comment>

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	97.185 %	97.712 %	5.088 ppb	1,056.335 ppb	1,052.014 ppb	217.087 ppb	1,145.150 ppb	947.230 ppb	96.210 %
Concentration per Run 1	97.787 %	85.049 %	5.055 ppb	1,182.978 ppb	1,189.522 ppb	224.388 ppb	1,241.102 ppb	984.449 ppb	97.918 %
Concentration per Run 2	97.337 %	109.559 %	5.052 ppb	968.433 ppb	940.468 ppb	204.089 ppb	1,067.559 ppb	997.000 ppb	95.087 %
Concentration per Run 3	96.431 %	98.529 %	5.156 ppb	1,017.592 ppb	1,026.052 ppb	222.785 ppb	1,126.790 ppb	860.241 ppb	95.625 %
Concentration RSD	0.7 %	12.6 %	1.2 %	10.6 %	12.0 %	5.2 %	7.7 %	8.0 %	1.6 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	95.565 %	53.573 ppb	21.237 ppb	55.070 ppb	112.427 ppb	51.463 ppb	52.508 ppb	25.977 ppb	52.413 ppb
Concentration per Run 1	92.760 %	57.051 ppb	22.864 ppb	58.550 ppb	119.892 ppb	55.675 ppb	55.731 ppb	27.878 ppb	57.056 ppb
Concentration per Run 2	97.260 %	51.963 ppb	20.411 ppb	52.897 ppb	110.871 ppb	48.983 ppb	50.188 ppb	24.668 ppb	49.163 ppb
Concentration per Run 3	96.673 %	51.705 ppb	20.437 ppb	53.764 ppb	106.517 ppb	49.731 ppb	51.604 ppb	25.384 ppb	51.021 ppb
Concentration RSD	2.6 %	5.6 %	6.6 %	5.5 %	6.1 %	7.1 %	5.5 %	6.5 %	7.9 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	99.092 %	103.123 %	12.577 ppb	12.300 ppb	98.038 ppb	95.231 ppb	100.598 %	97.090 %	5.133 ppb
Concentration per Run 1	100.983 %	94.425 %	13.884 ppb	12.954 ppb	106.605 ppb	105.500 ppb	102.949 %	88.920 %	5.685 ppb
Concentration per Run 2	97.835 %	110.142 %	11.693 ppb	11.833 ppb	92.838 ppb	90.444 ppb	97.548 %	101.970 %	4.921 ppb
Concentration per Run 3	98.459 %	104.802 %	12.154 ppb	12.112 ppb	94.673 ppb	89.749 ppb	101.296 %	100.379 %	4.794 ppb
Concentration RSD	1.7 %	7.7 %	9.2 %	4.7 %	7.6 %	9.3 %	2.8 %	7.3 %	9.4 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	5.375 ppb	98.984 %	103.017 %	49.476 ppb	199.689 ppb	98.292 %	98.747 %	96.521 %	100.783 %
Concentration per Run 1	5.940 ppb	98.729 %	94.490 %	53.912 ppb	217.531 ppb	99.228 %	90.801 %	94.312 %	93.680 %
Concentration per Run 2	5.238 ppb	98.094 %	105.503 %	47.631 ppb	194.134 ppb	97.887 %	102.443 %	97.359 %	103.497 %
Concentration per Run 3	4.946 ppb	100.129 %	109.059 %	46.884 ppb	187.401 ppb	97.762 %	102.997 %	97.893 %	105.171 %
Concentration RSD	9.5 %	1.1 %	7.4 %	7.8 %	7.9 %	0.8 %	7.0 %	2.0 %	6.2 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	9.808 ppb	55.620 ppb	94.893 %	94.783 %
Concentration per Run 1	9.832 ppb	59.680 ppb	93.943 %	90.198 %
Concentration per Run 2	9.619 ppb	54.188 ppb	94.305 %	94.705 %
Concentration per Run 3	9.972 ppb	52.991 ppb	96.431 %	99.446 %
Concentration RSD	1.8 %	6.4 %	1.4 %	4.9 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index: 110 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: L2432185-05 6020SL Rack 2
Analysis started at: 6/11/2024 10:44:05 PM Vial 13

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	96.304 %	92.320 %	0.032 ppb	6,838.363 ppb	12,880.034 ppb	23.912 ppb	7,034.465 ppb	22,540.723 ppb	101.852 %
Concentration per Run 1	96.637 %	89.706 %	0.029 ppb	7,119.137 ppb	13,263.865 ppb	24.795 ppb	7,322.659 ppb	23,175.195 ppb	102.294 %
Concentration per Run 2	95.927 %	89.461 %	0.025 ppb	6,896.927 ppb	12,899.926 ppb	23.511 ppb	6,978.026 ppb	22,646.377 ppb	102.372 %
Concentration per Run 3	96.348 %	97.794 %	0.042 ppb	6,499.026 ppb	12,476.310 ppb	23.429 ppb	6,802.710 ppb	21,800.597 ppb	100.890 %
Concentration RSD	0.4 %	5.1 %	26.8 %	4.6 %	3.1 %	3.2 %	3.8 %	3.1 %	0.8 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	97.593 %	0.432 ppb	7.087 ppb	235.580 ppb	42.436 ppb	2.605 ppb	7.097 ppb	1.160 ppb	20.822 ppb
Concentration per Run 1	94.717 %	0.410 ppb	7.476 ppb	248.966 ppb	46.302 ppb	2.674 ppb	7.750 ppb	1.291 ppb	22.410 ppb
Concentration per Run 2	97.545 %	0.461 ppb	6.851 ppb	233.367 ppb	42.024 ppb	2.688 ppb	7.000 ppb	1.152 ppb	20.059 ppb
Concentration per Run 3	100.516 %	0.424 ppb	6.935 ppb	224.408 ppb	38.982 ppb	2.452 ppb	6.540 ppb	1.035 ppb	19.997 ppb
Concentration RSD	3.0 %	6.0 %	4.8 %	5.3 %	8.7 %	5.1 %	8.6 %	11.0 %	6.6 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	100.921 %	102.984 %	0.124 ppb	1.032 ppb	155.106 ppb	0.894 ppb	93.530 %	93.102 %	0.009 ppb
Concentration per Run 1	100.233 %	95.383 %	0.113 ppb	1.084 ppb	165.312 ppb	0.881 ppb	93.712 %	89.440 %	0.010 ppb
Concentration per Run 2	101.192 %	105.389 %	0.126 ppb	1.123 ppb	151.088 ppb	0.923 ppb	94.883 %	94.761 %	0.009 ppb
Concentration per Run 3	101.339 %	108.180 %	0.133 ppb	0.889 ppb	148.917 ppb	0.879 ppb	91.994 %	95.104 %	0.008 ppb
Concentration RSD	0.6 %	6.5 %	8.2 %	12.2 %	5.7 %	2.8 %	1.6 %	3.4 %	12.0 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.093 ppb	95.261 %	97.971 %	0.521 ppb	35.356 ppb	95.691 %	97.512 %	95.960 %	100.495 %
Concentration per Run 1	0.112 ppb	94.711 %	93.868 %	0.470 ppb	37.481 ppb	93.452 %	91.223 %	95.873 %	95.243 %
Concentration per Run 2	0.082 ppb	95.653 %	99.779 %	0.510 ppb	34.015 ppb	95.074 %	100.585 %	92.876 %	104.128 %
Concentration per Run 3	0.086 ppb	95.420 %	100.266 %	0.582 ppb	34.573 ppb	98.547 %	100.727 %	99.132 %	102.115 %
Concentration RSD	17.1 %	0.5 %	3.6 %	11.0 %	5.3 %	2.7 %	5.6 %	3.3 %	4.6 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.054 ppb	0.085 ppb	92.055 %	92.113 %
Concentration per Run 1	0.057 ppb	0.094 ppb	92.268 %	86.777 %
Concentration per Run 2	0.054 ppb	0.082 ppb	91.740 %	94.153 %
Concentration per Run 3	0.053 ppb	0.079 ppb	92.158 %	95.410 %
Concentration RSD	4.2 %	8.9 %	0.3 %	5.1 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	111	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2430764-01 6020TL	Rack	2		
Analysis started at:	6/11/2024 10:48:47 PM	Vial	19		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	82.374 %	89.624 %	0.533 ppb	571,419.960 ppb	43,493.517 ppb	2,536.652 ppb	12,261.632 ppb	145,009.322 ppb	205.659 %
Concentration per Run 1	82.912 %	87.745 %	0.541 ppb	585,579.057 ppb	44,848.870 ppb	2,620.105 ppb	12,393.091 ppb	147,545.855 ppb	207.313 %
Concentration per Run 2	82.332 %	100.980 %	0.531 ppb	546,714.838 ppb	41,487.424 ppb	2,401.105 ppb	12,050.378 ppb	144,782.241 ppb	205.612 %
Concentration per Run 3	81.879 %	80.147 %	0.526 ppb	581,965.986 ppb	44,144.258 ppb	2,588.744 ppb	12,341.427 ppb	142,699.869 ppb	204.053 %
Concentration RSD	0.6 %	11.8 %	1.4 %	3.8 %	4.1 %	4.7 %	1.5 %	1.7 %	0.8 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	215.648 %	5.494 ppb	4.831 ppb	2,053.284 ppb	25,345.748 ppb	165.121 ppb	209.262 ppb	903.978 ppb	388.761 ppb
Concentration per Run 1	216.045 %	5.439 ppb	4.771 ppb	2,104.951 ppb	26,453.469 ppb	167.177 ppb	215.462 ppb	926.825 ppb	401.630 ppb
Concentration per Run 2	212.984 %	5.517 ppb	4.868 ppb	2,040.265 ppb	25,170.230 ppb	166.707 ppb	205.611 ppb	901.682 ppb	386.665 ppb
Concentration per Run 3	217.914 %	5.526 ppb	4.855 ppb	2,014.637 ppb	24,413.546 ppb	161.479 ppb	206.712 ppb	883.427 ppb	377.989 ppb
Concentration RSD	1.2 %	0.9 %	1.1 %	2.3 %	4.1 %	1.9 %	2.6 %	2.4 %	3.1 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	90.825 %	94.682 %	9.287 ppb	8.894 ppb	852.829 ppb	3.037 ppb	72.616 %	82.179 %	0.063 ppb
Concentration per Run 1	90.682 %	89.929 %	10.183 ppb	8.992 ppb	890.096 ppb	3.152 ppb	72.374 %	77.916 %	0.077 ppb
Concentration per Run 2	91.275 %	96.669 %	9.153 ppb	9.175 ppb	833.445 ppb	2.855 ppb	73.217 %	83.408 %	0.057 ppb
Concentration per Run 3	90.519 %	97.447 %	8.524 ppb	8.514 ppb	834.945 ppb	3.103 ppb	72.256 %	85.212 %	0.053 ppb
Concentration RSD	0.4 %	4.4 %	9.0 %	3.8 %	3.8 %	5.3 %	0.7 %	4.6 %	20.8 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	8.439 ppb	72.436 %	86.011 %	0.868 ppb	119.102 ppb	83.524 %	91.470 %	93.104 %	105.892 %
Concentration per Run 1	8.923 ppb	70.478 %	80.935 %	0.953 ppb	125.008 ppb	84.256 %	86.374 %	93.856 %	100.130 %
Concentration per Run 2	8.146 ppb	73.432 %	87.724 %	0.828 ppb	116.887 ppb	84.787 %	93.682 %	90.772 %	107.016 %
Concentration per Run 3	8.247 ppb	73.398 %	89.375 %	0.822 ppb	115.411 ppb	81.528 %	94.352 %	94.686 %	110.532 %
Concentration RSD	5.0 %	2.3 %	5.2 %	8.6 %	4.3 %	2.1 %	4.8 %	2.2 %	5.0 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.111 ppb	119.670 ppb	70.605 %	78.383 %
Concentration per Run 1	0.108 ppb	142.652 ppb	70.764 %	73.926 %
Concentration per Run 2	0.114 ppb	108.139 ppb	71.418 %	80.109 %
Concentration per Run 3	0.113 ppb	108.221 ppb	69.632 %	81.115 %
Concentration RSD	2.9 %	16.6 %	1.3 %	5.0 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index: 112
Analysis label: I2430764-02 6020TL
Analysis started at: 6/11/2024 10:53:29 PM
User name ALPHALAB\ICPMSRQ
Rack 2
Vial 20
Comment <Comment>

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	86.240 %	79.493 %	0.026 ppb	314,912.992 ppb	30,748.352 ppb	141.365 ppb	11,713.288 ppb	131,084.790 ppb	97.336 %
Concentration per Run 1	86.605 %	73.774 %	0.027 ppb	343,966.732 ppb	33,636.733 ppb	145.712 ppb	12,447.223 ppb	140,175.373 ppb	108.901 %
Concentration per Run 2	85.723 %	80.147 %	0.024 ppb	304,352.855 ppb	30,090.410 ppb	135.853 ppb	11,371.236 ppb	124,938.160 ppb	89.844 %
Concentration per Run 3	86.392 %	84.559 %	0.027 ppb	296,419.388 ppb	28,517.913 ppb	142.529 ppb	11,321.405 ppb	128,140.836 ppb	93.263 %
Concentration RSD	0.5 %	6.8 %	6.0 %	8.1 %	8.5 %	3.6 %	5.4 %	6.1 %	10.4 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	95.470 %	41.293 ppb	0.930 ppb	17,118.227 ppb	29,834.700 ppb	84.702 ppb	74.064 ppb	11.431 ppb	184.752 ppb
Concentration per Run 1	89.736 %	44.336 ppb	1.045 ppb	18,526.799 ppb	31,934.720 ppb	92.244 ppb	79.244 ppb	12.103 ppb	196.110 ppb
Concentration per Run 2	98.132 %	39.507 ppb	0.876 ppb	16,593.660 ppb	29,006.639 ppb	82.130 ppb	70.838 ppb	11.047 ppb	180.738 ppb
Concentration per Run 3	98.541 %	40.034 ppb	0.868 ppb	16,234.223 ppb	28,562.741 ppb	79.732 ppb	72.109 ppb	11.142 ppb	177.408 ppb
Concentration RSD	5.2 %	6.4 %	10.8 %	7.2 %	6.1 %	7.8 %	6.1 %	5.1 %	5.4 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	97.960 %	100.606 %	16.339 ppb	0.981 ppb	365.091 ppb	15.416 ppb	83.021 %	88.253 %	0.012 ppb
Concentration per Run 1	98.808 %	94.971 %	17.591 ppb	1.067 ppb	391.257 ppb	16.641 ppb	82.792 %	82.424 %	0.014 ppb
Concentration per Run 2	98.363 %	102.149 %	15.927 ppb	0.920 ppb	357.138 ppb	14.862 ppb	84.561 %	89.928 %	0.011 ppb
Concentration per Run 3	96.709 %	104.698 %	15.500 ppb	0.955 ppb	346.877 ppb	14.745 ppb	81.711 %	92.406 %	0.009 ppb
Concentration RSD	1.1 %	5.0 %	6.8 %	7.8 %	6.4 %	6.9 %	1.7 %	5.9 %	21.0 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.882 ppb	80.500 %	95.161 %	4.503 ppb	42.653 ppb	89.261 %	97.961 %	88.918 %	105.635 %
Concentration per Run 1	0.980 ppb	79.426 %	89.757 %	4.873 ppb	45.870 ppb	90.640 %	92.574 %	93.243 %	99.048 %
Concentration per Run 2	0.785 ppb	83.620 %	98.468 %	4.276 ppb	41.062 ppb	86.898 %	99.527 %	88.257 %	107.529 %
Concentration per Run 3	0.883 ppb	78.454 %	97.257 %	4.361 ppb	41.028 ppb	90.245 %	101.781 %	85.253 %	110.329 %
Concentration RSD	11.0 %	3.4 %	5.0 %	7.2 %	6.5 %	2.3 %	4.9 %	4.5 %	5.6 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.119 ppb	44.213 ppb	80.927 %	88.599 %
Concentration per Run 1	0.119 ppb	47.248 ppb	81.179 %	83.124 %
Concentration per Run 2	0.126 ppb	43.360 ppb	79.712 %	89.967 %
Concentration per Run 3	0.111 ppb	42.032 ppb	81.889 %	92.707 %
Concentration RSD	6.6 %	6.1 %	1.4 %	5.6 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	113	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	I2430764-03 6020TL	Rack	2		
Analysis started at:	6/11/2024 10:58:11 PM	Vial	21		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	59.721 %	63.725 %	3.012 ppb	6,578,622.810 ppb	141,008.836 ppb	10,161.215 ppb	67,876.663 ppb	499,648.369 ppb	83.629 %
Concentration per Run 1	60.003 %	58.823 %	3.048 ppb	7,181,815.526 ppb	153,053.353 ppb	10,823.359 ppb	72,452.763 ppb	533,680.712 ppb	84.311 %
Concentration per Run 2	59.562 %	68.872 %	2.947 ppb	6,104,645.220 ppb	131,353.214 ppb	9,613.703 ppb	64,251.461 ppb	480,624.343 ppb	83.748 %
Concentration per Run 3	59.598 %	63.480 %	3.039 ppb	6,449,407.682 ppb	138,619.941 ppb	10,046.583 ppb	66,925.766 ppb	484,640.051 ppb	82.829 %
Concentration RSD	0.4 %	7.9 %	1.9 %	8.4 %	7.8 %	6.0 %	6.2 %	5.9 %	0.9 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	47.002 %	0.465 ppb	27.690 ppb	30,793.379 ppb	4,104.044 ppb	390.070 ppb	740.938 ppb	243.150 ppb	2,577.562 ppb
Concentration per Run 1	44.720 %	0.533 ppb	29.432 ppb	32,584.544 ppb	4,281.560 ppb	418.418 ppb	797.053 ppb	257.535 ppb	2,734.337 ppb
Concentration per Run 2	48.312 %	0.390 ppb	27.018 ppb	29,789.301 ppb	3,989.750 ppb	373.653 ppb	709.933 ppb	233.819 ppb	2,499.886 ppb
Concentration per Run 3	47.974 %	0.473 ppb	26.619 ppb	30,006.293 ppb	4,040.821 ppb	378.140 ppb	715.829 ppb	238.096 ppb	2,498.464 ppb
Concentration RSD	4.2 %	15.4 %	5.5 %	5.0 %	3.8 %	6.3 %	6.6 %	5.2 %	5.3 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	62.430 %	75.523 %	6.814 ppb	16.457 ppb	1,166.981 ppb	0.117 ppb	49.983 %	63.667 %	0.045 ppb
Concentration per Run 1	63.279 %	70.882 %	7.278 ppb	17.621 ppb	1,224.294 ppb	0.074 ppb	50.476 %	59.921 %	0.045 ppb
Concentration per Run 2	62.843 %	76.806 %	6.171 ppb	16.036 ppb	1,149.089 ppb	0.136 ppb	50.153 %	65.360 %	0.046 ppb
Concentration per Run 3	61.170 %	78.883 %	6.992 ppb	15.715 ppb	1,127.559 ppb	0.141 ppb	49.319 %	65.720 %	0.045 ppb
Concentration RSD	1.8 %	5.5 %	8.4 %	6.2 %	4.4 %	32.1 %	1.2 %	5.1 %	1.3 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	10.822 ppb	50.903 %	71.748 %	1.291 ppb	129.714 ppb	60.821 %	81.607 %	59.128 %	87.076 %
Concentration per Run 1	11.345 ppb	51.038 %	67.873 %	1.375 ppb	136.052 ppb	61.960 %	77.297 %	60.261 %	81.886 %
Concentration per Run 2	10.538 ppb	50.736 %	72.918 %	1.243 ppb	124.938 ppb	60.456 %	83.583 %	58.515 %	89.026 %
Concentration per Run 3	10.585 ppb	50.934 %	74.452 %	1.255 ppb	128.151 ppb	60.048 %	83.941 %	58.609 %	90.317 %
Concentration RSD	4.2 %	0.3 %	4.8 %	5.7 %	4.4 %	1.7 %	4.6 %	1.7 %	5.2 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.141 ppb	22.133 ppb	42.170 %	64.004 %
Concentration per Run 1	0.144 ppb	23.193 ppb	42.040 %	60.959 %
Concentration per Run 2	0.140 ppb	22.023 ppb	42.811 %	64.635 %
Concentration per Run 3	0.139 ppb	21.183 ppb	41.660 %	66.419 %
Concentration RSD	1.9 %	4.6 %	1.4 %	4.3 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index: 114
Analysis label: I2430764-06 6020TL
Analysis started at: 6/11/2024 11:02:54 PM
User name ALPHALAB\ICPMSRQ
Rack 2
Vial 22
Comment <Comment>

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	61.461 %	51.797 %	0.048 ppb	398,417.583 ppb	10,773.619 ppb	54.021 ppb	5,587.753 ppb	51,193.434 ppb	75.001 %
Concentration per Run 1	62.476 %	47.059 %	0.047 ppb	434,696.143 ppb	11,569.146 ppb	54.732 ppb	5,835.815 ppb	53,272.162 ppb	76.102 %
Concentration per Run 2	61.348 %	57.598 %	0.051 ppb	375,961.594 ppb	10,292.708 ppb	53.642 ppb	5,373.190 ppb	51,244.057 ppb	73.892 %
Concentration per Run 3	60.559 %	50.735 %	0.047 ppb	384,595.011 ppb	10,459.004 ppb	53.688 ppb	5,554.255 ppb	49,064.082 ppb	75.008 %
Concentration RSD	1.6 %	10.3 %	4.3 %	8.0 %	6.4 %	1.1 %	4.2 %	4.1 %	1.5 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	73.039 %	0.249 ppb	0.220 ppb	6,291.455 ppb	19,721.357 ppb	3.235 ppb	2.806 ppb	1.865 ppb	101.900 ppb
Concentration per Run 1	72.784 %	0.278 ppb	0.230 ppb	6,669.871 ppb	21,077.553 ppb	3.467 ppb	2.991 ppb	2.082 ppb	110.732 ppb
Concentration per Run 2	73.122 %	0.259 ppb	0.199 ppb	6,111.782 ppb	18,985.173 ppb	3.114 ppb	2.596 ppb	1.825 ppb	98.954 ppb
Concentration per Run 3	73.211 %	0.211 ppb	0.231 ppb	6,092.713 ppb	19,101.346 ppb	3.123 ppb	2.830 ppb	1.687 ppb	96.014 ppb
Concentration RSD	0.3 %	13.9 %	8.2 %	5.2 %	6.0 %	6.2 %	7.1 %	10.8 %	7.6 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	76.154 %	77.120 %	0.724 ppb	0.557 ppb	399.138 ppb	0.120 ppb	63.285 %	69.761 %	0.014 ppb
Concentration per Run 1	77.019 %	73.532 %	0.743 ppb	0.733 ppb	419.813 ppb	0.117 ppb	62.723 %	67.511 %	0.013 ppb
Concentration per Run 2	76.569 %	79.508 %	0.769 ppb	0.285 ppb	388.103 ppb	0.127 ppb	64.392 %	70.481 %	0.016 ppb
Concentration per Run 3	74.873 %	78.320 %	0.658 ppb	0.652 ppb	389.499 ppb	0.116 ppb	62.739 %	71.290 %	0.013 ppb
Concentration RSD	1.5 %	4.1 %	8.0 %	42.9 %	4.5 %	4.7 %	1.5 %	2.9 %	13.5 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.116 ppb	62.613 %	80.893 %	0.262 ppb	390.668 ppb	71.508 %	84.656 %	71.744 %	95.715 %
Concentration per Run 1	0.124 ppb	61.273 %	76.432 %	0.249 ppb	419.692 ppb	71.102 %	79.369 %	70.647 %	89.547 %
Concentration per Run 2	0.102 ppb	63.556 %	83.230 %	0.281 ppb	377.228 ppb	71.609 %	87.484 %	72.082 %	98.812 %
Concentration per Run 3	0.122 ppb	63.011 %	83.016 %	0.254 ppb	375.084 ppb	71.813 %	87.116 %	72.502 %	98.787 %
Concentration RSD	10.3 %	1.9 %	4.8 %	6.7 %	6.4 %	0.5 %	5.4 %	1.4 %	5.6 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.028 ppb	0.103 ppb	69.555 %	80.007 %
Concentration per Run 1	0.027 ppb	0.113 ppb	70.044 %	77.354 %
Concentration per Run 2	0.027 ppb	0.104 ppb	69.682 %	80.090 %
Concentration per Run 3	0.030 ppb	0.093 ppb	68.938 %	82.575 %
Concentration RSD	6.3 %	9.5 %	0.8 %	3.3 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	115	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	xL2432185-06 6020SL	Rack	2		
Analysis started at:	6/11/2024 11:07:37 PM	Vial	14		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	67.385 %	59.967 %	0.039 ppb	5,884.061 ppb	4,998.377 ppb	6,073.568 ppb	7,966.303 ppb	882,036.055 ppb	68.530 %
Concentration per Run 1	68.348 %	57.353 %	0.036 ppb	6,286.464 ppb	5,296.939 ppb	6,508.879 ppb	8,591.013 ppb	928,190.566 ppb	68.457 %
Concentration per Run 2	67.158 %	60.539 %	0.042 ppb	5,785.440 ppb	4,944.743 ppb	5,994.048 ppb	7,844.833 ppb	873,953.574 ppb	67.983 %
Concentration per Run 3	66.651 %	62.010 %	0.039 ppb	5,580.279 ppb	4,753.450 ppb	5,717.777 ppb	7,463.064 ppb	843,964.024 ppb	69.148 %
Concentration RSD	1.3 %	4.0 %	7.4 %	6.2 %	5.5 %	6.6 %	7.2 %	4.8 %	0.9 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	82.615 %	83.244 ppb	2,474.680 ppb	90.842 ppb	5,014.458 ppb	11.555 ppb	38.740 ppb	2.344 ppb	29.685 ppb
Concentration per Run 1	79.383 %	86.616 ppb	2,628.679 ppb	96.975 ppb	5,461.539 ppb	12.287 ppb	40.692 ppb	2.444 ppb	31.100 ppb
Concentration per Run 2	83.048 %	83.188 ppb	2,434.906 ppb	88.880 ppb	4,822.986 ppb	11.316 ppb	38.157 ppb	2.299 ppb	29.110 ppb
Concentration per Run 3	85.413 %	79.928 ppb	2,360.455 ppb	86.673 ppb	4,758.850 ppb	11.061 ppb	37.370 ppb	2.290 ppb	28.845 ppb
Concentration RSD	3.7 %	4.0 %	5.6 %	6.0 %	7.7 %	5.6 %	4.5 %	3.7 %	4.2 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	66.947 %	76.802 %	15.810 ppb	0.448 ppb	441.215 ppb	0.215 ppb	55.825 %	67.390 %	0.012 ppb
Concentration per Run 1	66.656 %	74.570 %	16.745 ppb	0.496 ppb	466.221 ppb	0.274 ppb	56.715 %	64.636 %	0.013 ppb
Concentration per Run 2	67.629 %	77.897 %	15.427 ppb	0.473 ppb	424.429 ppb	0.180 ppb	54.974 %	69.173 %	0.012 ppb
Concentration per Run 3	66.555 %	77.939 %	15.258 ppb	0.374 ppb	432.994 ppb	0.191 ppb	55.787 %	68.361 %	0.011 ppb
Concentration RSD	0.9 %	2.5 %	5.1 %	14.4 %	5.0 %	23.8 %	1.6 %	3.6 %	7.1 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.013 ppb	55.156 %	81.320 %	0.112 ppb	209.087 ppb	61.542 %	82.523 %	60.451 %	95.145 %
Concentration per Run 1	0.007 ppb	56.204 %	76.811 %	0.123 ppb	221.956 ppb	61.175 %	79.002 %	60.238 %	88.903 %
Concentration per Run 2	0.010 ppb	55.140 %	82.873 %	0.113 ppb	203.286 ppb	61.685 %	85.256 %	59.699 %	98.352 %
Concentration per Run 3	0.021 ppb	54.123 %	84.277 %	0.099 ppb	202.020 ppb	61.765 %	83.311 %	61.416 %	98.181 %
Concentration RSD	57.6 %	1.9 %	4.9 %	11.1 %	5.3 %	0.5 %	3.9 %	1.5 %	5.7 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.017 ppb	16.420 ppb	50.282 %	76.464 %
Concentration per Run 1	0.017 ppb	17.615 ppb	48.785 %	73.190 %
Concentration per Run 2	0.018 ppb	16.249 ppb	50.732 %	76.107 %
Concentration per Run 3	0.014 ppb	15.395 ppb	51.330 %	80.094 %
Concentration RSD	12.8 %	6.8 %	2.6 %	4.5 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	116	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2432185-07 6020SL	Rack	2		
Analysis started at:	6/11/2024 11:12:19 PM	Vial	15		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	65.554 %	55.147 %	0.024 ppb	29,394.169 ppb	12,058.196 ppb	11.358 ppb	5,078.159 ppb	32,926.575 ppb	73.694 %
Concentration per Run 1	65.978 %	57.598 %	0.031 ppb	30,423.398 ppb	12,507.541 ppb	9.582 ppb	5,394.703 ppb	35,782.949 ppb	74.220 %
Concentration per Run 2	65.877 %	54.657 %	0.021 ppb	28,829.667 ppb	11,811.183 ppb	13.834 ppb	4,993.378 ppb	31,601.567 ppb	73.349 %
Concentration per Run 3	64.807 %	53.186 %	0.019 ppb	28,929.441 ppb	11,855.862 ppb	10.657 ppb	4,846.397 ppb	31,395.209 ppb	73.513 %
Concentration RSD	1.0 %	4.1 %	25.3 %	3.0 %	3.2 %	19.5 %	5.6 %	7.5 %	0.6 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	77.824 %	0.225 ppb	0.844 ppb	1,778.084 ppb	16,512.705 ppb	0.095 ppb	0.056 ppb	0.142 ppb	0.507 ppb
Concentration per Run 1	74.670 %	0.197 ppb	1.168 ppb	1,885.267 ppb	17,836.433 ppb	0.105 ppb	0.065 ppb	0.156 ppb	0.634 ppb
Concentration per Run 2	78.423 %	0.290 ppb	0.741 ppb	1,736.749 ppb	15,691.287 ppb	0.097 ppb	0.063 ppb	0.148 ppb	0.473 ppb
Concentration per Run 3	80.379 %	0.187 ppb	0.623 ppb	1,712.235 ppb	16,010.396 ppb	0.083 ppb	0.041 ppb	0.122 ppb	0.413 ppb
Concentration RSD	3.7 %	25.2 %	34.0 %	5.3 %	7.0 %	11.6 %	24.2 %	12.4 %	22.6 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	75.007 %	78.926 %	0.229 ppb	0.097 ppb	222.097 ppb	0.312 ppb	64.254 %	70.943 %	0.001 ppb
Concentration per Run 1	73.375 %	75.615 %	0.260 ppb	0.116 ppb	235.975 ppb	0.317 ppb	63.732 %	67.092 %	0.002 ppb
Concentration per Run 2	75.505 %	80.815 %	0.213 ppb	0.067 ppb	213.006 ppb	0.297 ppb	64.675 %	72.093 %	0.001 ppb
Concentration per Run 3	76.141 %	80.349 %	0.214 ppb	0.108 ppb	217.312 ppb	0.322 ppb	64.354 %	73.645 %	0.001 ppb
Concentration RSD	1.9 %	3.6 %	11.7 %	27.3 %	5.5 %	4.1 %	0.7 %	4.8 %	57.7 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.002 ppb	63.558 %	83.727 %	0.013 ppb	161.377 ppb	71.538 %	87.410 %	70.665 %	99.503 %
Concentration per Run 1	0.003 ppb	61.950 %	80.027 %	0.022 ppb	170.446 ppb	69.254 %	81.771 %	69.653 %	94.082 %
Concentration per Run 2	0.001 ppb	64.687 %	86.487 %	-0.006 ppb	153.355 ppb	73.030 %	91.047 %	70.279 %	101.491 %
Concentration per Run 3	0.001 ppb	64.038 %	84.666 %	0.022 ppb	160.331 ppb	72.329 %	89.412 %	72.063 %	102.936 %
Concentration RSD	60.5 %	2.3 %	4.0 %	123.6 %	5.3 %	2.8 %	5.7 %	1.8 %	4.8 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.007 ppb	0.195 ppb	73.959 %	85.498 %
Concentration per Run 1	0.007 ppb	0.219 ppb	74.225 %	79.736 %
Concentration per Run 2	0.007 ppb	0.185 ppb	73.187 %	87.280 %
Concentration per Run 3	0.007 ppb	0.180 ppb	74.465 %	89.479 %
Concentration RSD	4.3 %	11.1 %	0.9 %	6.0 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index:	117	User name	ALPHALAB\ICPMSRQ	Comment	<Comment>
Analysis label:	L2432185-08 6020SL	Rack	2		
Analysis started at:	6/11/2024 11:17:01 PM	Vial	16		

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	79.527 %	66.258 %	0.007 ppb	25,019.257 ppb	13,971.448 ppb	12.309 ppb	8,157.483 ppb	72,739.225 ppb	80.573 %
Concentration per Run 1	79.640 %	63.725 %	0.007 ppb	25,576.880 ppb	14,317.833 ppb	14.753 ppb	8,159.355 ppb	73,941.864 ppb	79.371 %
Concentration per Run 2	79.868 %	70.343 %	0.009 ppb	24,355.554 ppb	13,511.754 ppb	9.902 ppb	8,212.620 ppb	71,524.222 ppb	81.174 %
Concentration per Run 3	79.073 %	64.706 %	0.006 ppb	25,125.338 ppb	14,084.756 ppb	12.272 ppb	8,100.475 ppb	72,751.588 ppb	81.174 %
Concentration RSD	0.5 %	5.4 %	20.8 %	2.5 %	3.0 %	19.7 %	0.7 %	1.7 %	1.3 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	82.965 %	0.800 ppb	0.700 ppb	720.469 ppb	10,908.599 ppb	0.132 ppb	0.160 ppb	0.143 ppb	0.732 ppb
Concentration per Run 1	83.065 %	0.807 ppb	0.663 ppb	723.240 ppb	11,136.078 ppb	0.134 ppb	0.153 ppb	0.132 ppb	0.844 ppb
Concentration per Run 2	81.393 %	0.828 ppb	0.743 ppb	726.998 ppb	10,946.936 ppb	0.147 ppb	0.179 ppb	0.146 ppb	0.715 ppb
Concentration per Run 3	84.435 %	0.764 ppb	0.694 ppb	711.169 ppb	10,642.783 ppb	0.114 ppb	0.147 ppb	0.151 ppb	0.638 ppb
Concentration RSD	1.8 %	4.1 %	5.8 %	1.1 %	2.3 %	12.5 %	10.6 %	7.1 %	14.2 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	77.947 %	84.738 %	1.890 ppb	0.203 ppb	440.591 ppb	2.080 ppb	64.367 %	74.926 %	0.001 ppb
Concentration per Run 1	76.558 %	83.524 %	1.855 ppb	0.231 ppb	445.977 ppb	2.175 ppb	63.101 %	74.108 %	0.002 ppb
Concentration per Run 2	78.880 %	84.853 %	1.897 ppb	0.188 ppb	440.622 ppb	2.010 ppb	65.319 %	75.731 %	0.001 ppb
Concentration per Run 3	78.402 %	85.838 %	1.918 ppb	0.189 ppb	435.174 ppb	2.055 ppb	64.683 %	74.938 %	-0.001 ppb
Concentration RSD	1.6 %	1.4 %	1.7 %	12.2 %	1.2 %	4.1 %	1.8 %	1.1 %	159.2 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.001 ppb	63.145 %	87.453 %	0.158 ppb	463.913 ppb	74.576 %	90.846 %	69.418 %	102.443 %
Concentration per Run 1	0.002 ppb	62.616 %	87.136 %	0.150 ppb	469.607 ppb	69.819 %	89.211 %	69.099 %	101.467 %
Concentration per Run 2	0.000 ppb	63.339 %	88.159 %	0.159 ppb	458.796 ppb	81.919 %	92.347 %	69.615 %	103.527 %
Concentration per Run 3	0.001 ppb	63.478 %	87.065 %	0.166 ppb	463.337 ppb	71.991 %	90.982 %	69.540 %	102.336 %
Concentration RSD	141.5 %	0.7 %	0.7 %	5.1 %	1.2 %	8.6 %	1.7 %	0.4 %	1.0 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.004 ppb	0.069 ppb	74.711 %	90.324 %
Concentration per Run 1	0.004 ppb	0.069 ppb	75.088 %	88.957 %
Concentration per Run 2	0.003 ppb	0.070 ppb	74.847 %	90.864 %
Concentration per Run 3	0.005 ppb	0.068 ppb	74.199 %	91.151 %
Concentration RSD	19.9 %	1.6 %	0.6 %	1.3 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index: 118
Analysis label: CCV
Analysis started at: 6/11/2024 11:21:43 PM
User name ALPHALAB\ICPMSRQ
Rack 0
Vial 9
Comment <Comment>

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	64.624 %	52.369 %	53.606 ppb	6,342.144 ppb	6,489.513 ppb	68.693 ppb	5,843.223 ppb	5,899.765 ppb	67.901 %
Concentration per Run 1	65.912 %	52.696 %	53.530 ppb	6,496.201 ppb	6,674.552 ppb	67.941 ppb	6,097.808 ppb	6,197.792 ppb	68.160 %
Concentration per Run 2	64.417 %	59.804 %	53.342 ppb	5,978.180 ppb	6,095.331 ppb	74.674 ppb	5,697.800 ppb	6,002.651 ppb	68.078 %
Concentration per Run 3	63.543 %	44.608 %	53.947 ppb	6,552.052 ppb	6,698.655 ppb	63.463 ppb	5,734.062 ppb	5,498.852 ppb	67.466 %
Recovery Percentage 1			89.344 %	105.702 %	108.159 %	114.488 %	97.387 %	98.329 %	
Concentration RSD	1.9 %	14.5 %	0.6 %	5.0 %	5.3 %	8.2 %	3.8 %	6.1 %	0.6 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	82.929 %	61.824 ppb	56.512 ppb	57.920 ppb	5,679.783 ppb	57.166 ppb	56.582 ppb	55.272 ppb	59.208 ppb
Concentration per Run 1	81.322 %	64.418 ppb	58.636 ppb	60.365 ppb	5,943.730 ppb	59.324 ppb	60.590 ppb	57.768 ppb	61.698 ppb
Concentration per Run 2	82.514 %	61.541 ppb	56.352 ppb	57.158 ppb	5,576.547 ppb	57.262 ppb	55.197 ppb	54.053 ppb	58.130 ppb
Concentration per Run 3	84.951 %	59.513 ppb	54.547 ppb	56.239 ppb	5,519.073 ppb	54.913 ppb	53.958 ppb	53.994 ppb	57.797 ppb
Recovery Percentage 1		103.040 %	94.186 %	96.534 %	94.663 %	95.277 %	94.303 %	92.119 %	98.680 %
Concentration RSD	2.2 %	4.0 %	3.6 %	3.7 %	4.1 %	3.9 %	6.2 %	3.9 %	3.7 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	70.889 %	80.927 %	58.538 ppb	64.900 ppb	68.667 ppb	59.112 ppb	61.361 %	74.633 %	57.618 ppb
Concentration per Run 1	71.026 %	79.472 %	61.594 ppb	68.860 ppb	70.115 ppb	60.332 ppb	61.076 %	72.950 %	59.740 ppb
Concentration per Run 2	71.203 %	81.969 %	57.745 ppb	64.852 ppb	68.044 ppb	58.622 ppb	62.140 %	74.935 %	56.601 ppb
Concentration per Run 3	70.438 %	81.340 %	56.275 ppb	60.986 ppb	67.841 ppb	58.381 ppb	60.868 %	76.014 %	56.514 ppb
Recovery Percentage 1			97.563 %	108.166 %	114.445 %	98.519 %			96.030 %
Concentration RSD	0.6 %	1.6 %	4.7 %	6.1 %	1.8 %	1.8 %	1.1 %	2.1 %	3.2 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	58.746 ppb	60.034 %	88.389 %	57.641 ppb	61.952 ppb	66.052 %	89.420 %	64.758 %	101.463 %
Concentration per Run 1	61.645 ppb	59.799 %	85.389 %	61.333 ppb	65.178 ppb	65.588 %	86.696 %	64.107 %	98.757 %
Concentration per Run 2	57.394 ppb	60.329 %	89.937 %	55.990 ppb	59.910 ppb	66.115 %	91.043 %	64.762 %	103.333 %
Concentration per Run 3	57.198 ppb	59.975 %	89.841 %	55.600 ppb	60.768 ppb	66.454 %	90.521 %	65.405 %	102.299 %
Recovery Percentage 1	97.909 %			96.068 %	103.253 %				
Concentration RSD	4.3 %	0.4 %	2.9 %	5.6 %	4.6 %	0.7 %	2.7 %	1.0 %	2.4 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	61.700 ppb	57.781 ppb	74.924 %	89.807 %
Concentration per Run 1	61.310 ppb	59.769 ppb	75.502 %	87.389 %
Concentration per Run 2	61.558 ppb	57.350 ppb	75.245 %	89.924 %
Concentration per Run 3	62.233 ppb	56.223 ppb	74.024 %	92.108 %
Recovery Percentage 1	102.834 %	96.301 %		
Concentration RSD	0.8 %	3.1 %	1.1 %	2.6 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index: 119 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: CCB Rack 0
Analysis started at: 6/11/2024 11:26:28 PM Vial 10

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	64.404 %	54.738 %	0.020 ppb	190.982 ppb	1.774 ppb	0.999 ppb	9.237 ppb	-1.199 ppb	63.664 %
Concentration per Run 1	65.671 %	57.108 %	0.029 ppb	191.285 ppb	1.304 ppb	0.146 ppb	7.931 ppb	-9.216 ppb	64.473 %
Concentration per Run 2	64.180 %	52.451 %	0.012 ppb	196.583 ppb	2.669 ppb	-0.474 ppb	15.427 ppb	4.958 ppb	62.909 %
Concentration per Run 3	63.361 %	54.657 %	0.020 ppb	185.079 ppb	1.349 ppb	3.325 ppb	4.354 ppb	0.661 ppb	63.610 %
Recovery Percentage 1			4.011 %	190.982 %	2.535 %	9.991 %	9.237 %	-1.199 %	
Concentration RSD	1.8 %	4.3 %	42.9 %	3.0 %	43.7 %	204.0 %	61.2 %	606.3 %	1.2 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	76.941 %	0.013 ppb	0.005 ppb	0.604 ppb	5.675 ppb	0.010 ppb	0.027 ppb	0.059 ppb	0.432 ppb
Concentration per Run 1	75.701 %	0.038 ppb	0.001 ppb	0.624 ppb	7.066 ppb	0.017 ppb	0.068 ppb	0.061 ppb	0.534 ppb
Concentration per Run 2	78.761 %	0.012 ppb	0.018 ppb	0.588 ppb	5.516 ppb	0.007 ppb	0.029 ppb	0.065 ppb	0.426 ppb
Concentration per Run 3	76.359 %	-0.011 ppb	-0.003 ppb	0.599 ppb	4.442 ppb	0.005 ppb	-0.017 ppb	0.052 ppb	0.336 ppb
Recovery Percentage 1		0.257 %	0.532 %	60.357 %	11.350 %	1.909 %	1.338 %	5.938 %	8.642 %
Concentration RSD	2.1 %	190.6 %	215.2 %	3.0 %	23.2 %	65.7 %	159.8 %	10.9 %	23.0 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	67.149 %	76.991 %	0.017 ppb	0.113 ppb	0.034 ppb	0.190 ppb	59.861 %	74.128 %	0.015 ppb
Concentration per Run 1	67.894 %	72.761 %	0.011 ppb	0.168 ppb	0.068 ppb	0.145 ppb	60.462 %	70.061 %	0.020 ppb
Concentration per Run 2	67.586 %	78.678 %	0.010 ppb	0.113 ppb	0.008 ppb	0.202 ppb	60.338 %	75.590 %	0.015 ppb
Concentration per Run 3	65.968 %	79.535 %	0.029 ppb	0.059 ppb	0.025 ppb	0.223 ppb	58.782 %	76.732 %	0.011 ppb
Recovery Percentage 1			3.392 %	2.265 %	6.711 %	9.494 %			3.816 %
Concentration RSD	1.5 %	4.8 %	63.9 %	47.9 %	91.7 %	21.4 %	1.6 %	4.8 %	29.1 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.005 ppb	58.279 %	85.553 %	0.631 ppb	0.043 ppb	62.890 %	85.746 %	62.018 %	98.850 %
Concentration per Run 1	0.008 ppb	58.517 %	80.800 %	0.565 ppb	0.030 ppb	63.129 %	80.341 %	62.039 %	92.217 %
Concentration per Run 2	0.005 ppb	58.518 %	87.232 %	0.645 ppb	0.062 ppb	62.598 %	88.658 %	61.619 %	102.155 %
Concentration per Run 3	0.001 ppb	57.803 %	88.626 %	0.682 ppb	0.038 ppb	62.943 %	88.239 %	62.397 %	102.178 %
Recovery Percentage 1				15.766 %	8.653 %				
Concentration RSD	78.0 %	0.7 %	4.9 %	9.4 %	38.9 %	0.4 %	5.5 %	0.6 %	5.8 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.122 ppb	0.013 ppb	75.565 %	88.111 %
Concentration per Run 1	0.135 ppb	0.015 ppb	75.974 %	82.402 %
Concentration per Run 2	0.121 ppb	0.012 ppb	75.524 %	90.025 %
Concentration per Run 3	0.108 ppb	0.011 ppb	75.197 %	91.907 %
Recovery Percentage 1	12.151 %	1.252 %		
Concentration RSD	10.9 %	18.0 %	0.5 %	5.7 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index: 120
Analysis label: CCV
Analysis started at: 6/11/2024 11:31:15 PM
User name ALPHALAB\ICPMSRQ
Rack 0
Vial 9
Comment <Comment>

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	63.975 %	50.817 %	53.439 ppb	6,403.605 ppb	6,569.403 ppb	71.265 ppb	5,922.158 ppb	6,239.257 ppb	65.503 %
Concentration per Run 1	64.677 %	49.019 %	53.428 ppb	6,940.718 ppb	7,036.605 ppb	68.739 ppb	6,485.043 ppb	6,778.450 ppb	64.681 %
Concentration per Run 2	64.102 %	52.941 %	53.531 ppb	6,211.117 ppb	6,351.525 ppb	78.705 ppb	5,750.820 ppb	6,124.019 ppb	65.136 %
Concentration per Run 3	63.145 %	50.490 %	53.357 ppb	6,058.981 ppb	6,320.080 ppb	66.351 ppb	5,530.612 ppb	5,815.302 ppb	66.692 %
Recovery Percentage 1			89.064 %	106.727 %	109.490 %	118.775 %	98.703 %	103.988 %	
Concentration RSD	1.2 %	3.9 %	0.2 %	7.4 %	6.2 %	9.2 %	8.4 %	7.9 %	1.6 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	78.079 %	64.404 ppb	58.935 ppb	59.673 ppb	5,911.535 ppb	58.542 ppb	59.036 ppb	56.615 ppb	60.869 ppb
Concentration per Run 1	72.980 %	71.528 ppb	65.183 ppb	65.514 ppb	6,448.352 ppb	64.117 ppb	65.619 ppb	62.096 ppb	66.724 ppb
Concentration per Run 2	79.686 %	61.614 ppb	56.863 ppb	57.658 ppb	5,749.013 ppb	56.714 ppb	57.159 ppb	54.437 ppb	58.748 ppb
Concentration per Run 3	81.571 %	60.069 ppb	54.758 ppb	55.846 ppb	5,537.239 ppb	54.796 ppb	54.329 ppb	53.312 ppb	57.135 ppb
Recovery Percentage 1		107.340 %	98.225 %	99.455 %	98.526 %	97.570 %	98.393 %	94.358 %	101.448 %
Concentration RSD	5.8 %	9.7 %	9.4 %	8.6 %	8.1 %	8.4 %	10.0 %	8.4 %	8.4 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	69.403 %	75.734 %	60.396 ppb	68.278 ppb	72.009 ppb	61.117 ppb	59.691 %	70.146 %	59.775 ppb
Concentration per Run 1	69.005 %	71.147 %	65.972 ppb	75.672 ppb	78.248 ppb	67.144 ppb	59.575 %	65.289 %	65.285 ppb
Concentration per Run 2	70.160 %	78.282 %	57.387 ppb	64.756 ppb	68.585 ppb	58.048 ppb	60.468 %	72.757 %	57.159 ppb
Concentration per Run 3	69.044 %	77.775 %	57.829 ppb	64.405 ppb	69.194 ppb	58.160 ppb	59.030 %	72.392 %	56.883 ppb
Recovery Percentage 1			100.660 %	113.796 %	120.015 %	101.862 %			99.626 %
Concentration RSD	0.9 %	5.3 %	8.0 %	9.4 %	7.5 %	8.5 %	1.2 %	6.0 %	8.0 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	60.484 ppb	58.718 %	84.124 %	59.320 ppb	63.504 ppb	65.808 %	85.051 %	64.839 %	97.155 %
Concentration per Run 1	66.860 ppb	58.200 %	78.384 %	65.197 ppb	70.146 ppb	64.584 %	79.020 %	64.458 %	89.194 %
Concentration per Run 2	57.107 ppb	58.547 %	86.640 %	56.783 ppb	60.802 ppb	67.092 %	88.109 %	64.802 %	101.342 %
Concentration per Run 3	57.485 ppb	59.408 %	87.347 %	55.981 ppb	59.563 ppb	65.747 %	88.025 %	65.257 %	100.929 %
Recovery Percentage 1	100.807 %			98.867 %	105.840 %				
Concentration RSD	9.1 %	1.1 %	5.9 %	8.6 %	9.1 %	1.9 %	6.1 %	0.6 %	7.1 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	63.542 ppb	60.335 ppb	73.204 %	84.267 %
Concentration per Run 1	64.112 ppb	66.187 ppb	72.879 %	78.117 %
Concentration per Run 2	64.392 ppb	58.480 ppb	72.767 %	85.808 %
Concentration per Run 3	62.120 ppb	56.338 ppb	73.965 %	88.875 %
Recovery Percentage 1	105.903 %	100.558 %		
Concentration RSD	2.0 %	8.6 %	0.9 %	6.6 %

Alpha ICPMSRQ Data with SRD

6/12/2024 7:23:10 AM

Analysis index: 121 User name ALPHALAB\ICPMSRQ Comment <Comment>
Analysis label: CCB Rack 0
Analysis started at: 6/11/2024 11:36:01 PM Vial 10

Category	6Li (STD_DEF)	6Li (KED_DEF)	9Be (STD_DEF)	23Na (KED_DEF)	24Mg (KED_DEF)	27Al (KED_DEF)	39K (KED_DEF)	44Ca (KED_DEF)	45Sc (STD_DEF)
Concentration average	65.920 %	55.474 %	0.020 ppb	130.898 ppb	0.353 ppb	0.123 ppb	2.319 ppb	-7.416 ppb	65.016 %
Concentration per Run 1	67.129 %	52.696 %	0.019 ppb	146.414 ppb	-0.163 ppb	-0.439 ppb	6.271 ppb	-13.407 ppb	64.997 %
Concentration per Run 2	65.524 %	55.392 %	0.019 ppb	131.203 ppb	0.774 ppb	-0.486 ppb	1.898 ppb	-4.260 ppb	63.734 %
Concentration per Run 3	65.108 %	58.333 %	0.021 ppb	115.078 ppb	0.447 ppb	1.294 ppb	-1.210 ppb	-4.582 ppb	66.317 %
Recovery Percentage 1			3.965 %	130.898 %	0.504 %	1.233 %	2.319 %	-7.416 %	
Concentration RSD	1.6 %	5.1 %	3.6 %	12.0 %	134.7 %	822.9 %	162.0 %	70.0 %	2.0 %

Category	45Sc (KED_DEF)	51V (KED_DEF)	52Cr (KED_DEF)	55Mn (KED_DEF)	57Fe (KED_DEF)	59Co (KED_DEF)	60Ni (KED_DEF)	65Cu (KED_DEF)	66Zn (KED_DEF)
Concentration average	76.810 %	0.023 ppb	0.014 ppb	0.574 ppb	3.487 ppb	0.011 ppb	0.033 ppb	0.043 ppb	0.430 ppb
Concentration per Run 1	71.948 %	0.041 ppb	0.021 ppb	0.593 ppb	4.037 ppb	0.011 ppb	0.085 ppb	0.044 ppb	0.517 ppb
Concentration per Run 2	78.476 %	0.012 ppb	0.005 ppb	0.594 ppb	4.012 ppb	0.011 ppb	0.019 ppb	0.046 ppb	0.366 ppb
Concentration per Run 3	80.006 %	0.017 ppb	0.016 ppb	0.535 ppb	2.413 ppb	0.011 ppb	-0.005 ppb	0.038 ppb	0.406 ppb
Recovery Percentage 1		0.466 %	1.391 %	57.396 %	6.975 %	2.209 %	1.649 %	4.269 %	8.591 %
Concentration RSD	5.6 %	66.6 %	59.2 %	5.8 %	26.7 %	1.0 %	141.8 %	9.1 %	18.2 %

Category	74Ge (STD_DEF)	74Ge (KED_DEF)	75As (KED_DEF)	78Se (KED_DEF)	88Sr (KED_DEF)	95Mo (KED_DEF)	103Rh (STD_DEF)	103Rh (KED_DEF)	107Ag (KED_DEF)
Concentration average	68.743 %	76.095 %	0.051 ppb	0.119 ppb	0.005 ppb	0.198 ppb	61.697 %	73.311 %	0.018 ppb
Concentration per Run 1	68.796 %	69.484 %	0.055 ppb	0.135 ppb	0.019 ppb	0.151 ppb	62.807 %	67.445 %	0.020 ppb
Concentration per Run 2	68.385 %	78.940 %	0.033 ppb	0.154 ppb	-0.004 ppb	0.212 ppb	60.664 %	76.335 %	0.019 ppb
Concentration per Run 3	69.047 %	79.861 %	0.066 ppb	0.067 ppb	0.001 ppb	0.231 ppb	61.620 %	76.152 %	0.015 ppb
Recovery Percentage 1			10.218 %	2.372 %	1.071 %	9.904 %			4.484 %
Concentration RSD	0.5 %	7.5 %	32.4 %	38.4 %	226.1 %	20.9 %	1.7 %	6.9 %	15.6 %

Category	111Cd (KED_DEF)	115In (STD_DEF)	115In (KED_DEF)	123Sb (KED_DEF)	137Ba (KED_DEF)	159Tb (STD_DEF)	159Tb (KED_DEF)	175Lu (STD_DEF)	175Lu (KED_DEF)
Concentration average	0.005 ppb	59.648 %	85.194 %	0.682 ppb	0.041 ppb	64.889 %	86.121 %	62.996 %	96.559 %
Concentration per Run 1	0.007 ppb	59.634 %	79.250 %	0.659 ppb	0.030 ppb	65.191 %	80.787 %	62.910 %	89.115 %
Concentration per Run 2	0.006 ppb	59.507 %	87.064 %	0.676 ppb	0.063 ppb	64.872 %	87.005 %	63.582 %	98.921 %
Concentration per Run 3	0.001 ppb	59.802 %	89.267 %	0.710 ppb	0.031 ppb	64.604 %	90.569 %	62.497 %	101.640 %
Recovery Percentage 1				17.041 %	8.277 %				
Concentration RSD	70.2 %	0.2 %	6.2 %	3.8 %	45.1 %	0.5 %	5.7 %	0.9 %	6.8 %

Category	205Tl (STD_DEF)	208Pb (KED_DEF)	209Bi (STD_DEF)	209Bi (KED_DEF)
Concentration average	0.142 ppb	0.014 ppb	77.238 %	87.821 %
Concentration per Run 1	0.156 ppb	0.017 ppb	76.851 %	81.742 %
Concentration per Run 2	0.144 ppb	0.016 ppb	77.340 %	88.789 %
Concentration per Run 3	0.127 ppb	0.011 ppb	77.523 %	92.933 %
Recovery Percentage 1	14.238 %	1.442 %		
Concentration RSD	10.4 %	21.1 %	0.4 %	6.4 %

Interference Check Solutions
(ICP-MS)

Solution Component	Solution A Concentration (ug/L)	Solution AB Concentration (ug/L)
Al	20,000	20,000
Ca	60,000	60,000
Fe	50,000	50,000
Mg	20,000	20,000
Na	50,000	50,000
K	20,000	20,000
Mo	400	400
As	0.0	20
Cd	0.0	20
Cr	0.0	40
Co	0.0	40
Cu	0.0	40
Mn	0.0	40
Ni	0.0	40
Se	0.0	20
Ag	0.0	10
V	0.0	40
Zn	0.0	20

LCS & MS Concentrations
(ICP-MS)

Element	Liquid Concentration (mg/L)
Aluminum	2.00
Antimony	0.5
Arsenic	0.12
Barium	2.00
Beryllium	0.05
Cadmium	0.051
Calcium	10.0
Chromium	0.20
Cobalt	0.50
Copper	0.25
Iron	1.00
Lead	0.51
Magnesium	10.0
Manganese	0.50
Molybdenum	1.00
Nickel	0.50
Potassium	10.0
Selenium	0.12
Silver	0.05
Sodium	10.0
Thallium	0.12
Vanadium	0.50
Zinc	0.50

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck

ERA
A Waters Company

Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

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Reference Material

▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Quality Officer

Matthew Seebeck

16341 Table Mountain Pkwy ▪ Golden, CO 80403 ▪ T: 800.372.0122 ▪ 303.431.8454 ▪ www.eraqc.com

ERA
A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

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ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

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▪ Certificate of Analysis ▪

1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((U_{char}^2) + (U_{homogen}^2) + (U_{LTS}^2) + (U_{STS}^2) + (U_{RSS}^2))$

Where:

$U_{expanded}$ = Expanded uncertainty.
k = Coverage factor.
U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
$U_{homogen}$ = Standard uncertainty of the homogeneity assessment.
U_{LTS} = Standard uncertainty associated with long-term stability.
U_{STS} = Standard uncertainty associated with short-term (transport) stability.
U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

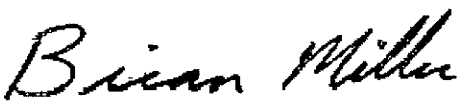
8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck

ERA
A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D113-540
Certificate Issue Date: March 23, 2021
Expiration Date: October 13, 2024
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8630	12.0	4420 - 12800	4370 - 12900
Antimony	256	129	16.8	0.742 - 257	25.6 - 323
Arsenic	91.6	84.5	15.1	70.0 - 99.0	59.2 - 110
Barium	259	249	9.94	206 - 292	187 - 311
Beryllium	175	163	3.89	135 - 191	122 - 204
Boron	95.7	76.7	12.8	55.7 - 97.7	48.0 - 107
Cadmium	107	99.0	11.5	82.2 - 116	74.2 - 124
Calcium	5190	4760	11.8	3890 - 5640	3460 - 6070
Chromium	129	122	14.6	101 - 144	85.7 - 159
Cobalt	63.6	61.7	11.5	51.9 - 71.6	46.3 - 77.2
Copper	62.3	61.5	12.3	51.9 - 71.0	46.1 - 76.8
Iron	15000	14500	15.7	8860 - 20100	5190 - 23800
Lead	122	123	13.9	103 - 144	88.3 - 158
Lithium	6.42	7.30	18.7	5.13 - 9.48	3.20 - 11.4
Magnesium	2570	2360	8.87	1810 - 2920	1480 - 3250
Manganese	470	456	13.4	375 - 538	350 - 563
Mercury	22.1	18.9	14.5	13.0 - 24.8	11.3 - 26.4
Molybdenum	80.1	72.8	11.0	58.7 - 87.0	50.5 - 95.2
Nickel	143	135	14.2	112 - 158	94.7 - 176
Potassium	2420	2090	8.21	1480 - 2700	1240 - 2940
Selenium	128	121	11.7	96.9 - 146	80.4 - 162
Silver	45.4	44.1	6.69	35.5 - 52.8	30.7 - 57.6
Sodium	161	136	9.34	97.4 - 174	48.1 - 223
Strontium	82.2	82.3	8.42	67.4 - 97.1	58.6 - 106

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	154	144	7.54	117 - 171	101 - 187
Tin	89.7	79.8	14.0	62.2 - 97.4	43.5 - 116
Titanium	705	546	10.3	123 - 969	118 - 974
Uranium	29.5	30.9	3.38	23.9 - 37.9	21.3 - 40.5
Vanadium	196	186	14.2	148 - 224	138 - 235
Zinc	307	295	10.4	240 - 351	207 - 384

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Calculation of Method 6020 Metals

Aqueous Samples

The instrument will calculate the concentration (µg/L). This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, mg/L} = C_s \times (1\text{mg}/1000\mu\text{g}) \times (DF)$$

Where:

C_s = Concentration of sample (µg/L)

DF = Dilution Factor

Alpha ICPMSRQ Seq

6/11/2024 7:37:56 AM

Sample List Summary:

Instrument ID: iCAP RQ

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
1	Rinse	0	1	3	1	6/10/2024 7:24:52 AM
2	CAL LOT #M24-1045	0	1	3	1	6/10/2024 7:29:32 AM
3	Blank NTB ICPMSRQ	4	49	3	1	6/10/2024 7:34:12 AM
4	0.2/20 Cal	0	2	3	1	6/10/2024 7:38:56 AM
5	1/100 Cal	0	3	3	1	6/10/2024 7:43:37 AM
6	10/10000 Cal	0	4	3	1	6/10/2024 7:48:18 AM
7	60/6000 Cal	0	5	3	1	6/10/2024 7:53:00 AM
8	120/120000 Cal	0	6	3	1	6/10/2024 7:57:43 AM
9	Sr 200ppb	4	55	3	1	6/10/2024 8:03:52 AM
10	ICV	0	7	3	1	6/10/2024 8:08:36 AM
11	ICB	0	10	3	1	6/10/2024 8:13:20 AM
12	ICSA	4	53	3	1	6/10/2024 8:19:24 AM
13	LDR Check - 10/1	4	1	3	1	6/10/2024 8:24:08 AM
14	Rinse	0	1	3	1	6/10/2024 8:28:51 AM
15	CCV	0	9	3	1	6/10/2024 8:33:31 AM
16	CCB	0	10	3	1	6/10/2024 8:38:16 AM
17	L2430038-02d10 6020TL	1	1	3	1	6/10/2024 9:26:00 AM
18	L2430233-01d10 6020TL	1	2	3	1	6/10/2024 9:30:40 AM
19	L2430233-02d10 6020TL	1	3	3	1	6/10/2024 9:35:20 AM
20	L2430233-03d10 6020TL	1	4	3	1	6/10/2024 9:40:01 AM
21	L2430233-04d10 6020TL	1	5	3	1	6/10/2024 9:44:42 AM
22	L2430233-05d10 6020TL	1	6	3	1	6/10/2024 9:49:23 AM
23	L2430233-06d10 6020TL	1	7	3	1	6/10/2024 9:54:05 AM
24	L2430233-07d10 6020TL	1	8	3	1	6/10/2024 9:58:47 AM
25	L2430233-03d100 6020TL	1	9	3	1	6/10/2024 10:23:24 AM
26	L2430233-05d100 6020TL	1	10	3	1	6/10/2024 10:28:06 AM
27	CCV	0	9	3	1	6/10/2024 10:32:49 AM
28	CCB	0	10	3	1	6/10/2024 10:37:34 AM
29	xwg1931174-1 6020TL	1	11	3	1	6/10/2024 10:49:59 AM
30	wg1931174-1 6020TL	1	11	3	1	6/10/2024 10:52:09 AM
31	L2430960-07 6020TL	1	19	3	1	6/10/2024 10:56:52 AM
32	wg1931174-2d10 6020TL	1	12	3	1	6/10/2024 11:01:33 AM
33	L2430614-01 6020TL	1	13	3	1	6/10/2024 11:06:16 AM
34	wg1931174-3d10 6020TL	1	14	3	1	6/10/2024 11:10:55 AM
35	wg1931174-4 6020TL	1	15	3	1	6/10/2024 11:15:35 AM
36	wg1931174-5d10 6020TL	1	16	3	1	6/10/2024 11:20:15 AM
37	wg1931174-6d5 6020TL	1	17	3	1	6/10/2024 11:24:55 AM
38	L2430614-02 6020TL	1	18	3	1	6/10/2024 11:29:35 AM
39	CCV	0	9	3	1	6/10/2024 11:34:43 AM
40	CCB	0	10	3	1	6/10/2024 11:39:28 AM
41	CCV	0	9	3	1	6/10/2024 11:54:12 AM
42	CCB	0	10	3	1	6/10/2024 11:59:52 AM
43	L2429922-01d10 6020TL	1	20	3	1	6/10/2024 12:05:57 PM
44	L2429922-02d10 6020TL	1	21	3	1	6/10/2024 12:10:37 PM
45	L2429922-03d10 6020TL	1	22	3	1	6/10/2024 12:15:19 PM
46	L2429922-04 6020TL	1	23	3	1	6/10/2024 12:20:01 PM
47	L2429922-05 6020TL	1	24	3	1	6/10/2024 12:24:43 PM
48	WG1931205-2d10 2008TL	1	26	3	1	6/10/2024 12:29:26 PM
49	L2430592-06 2008TL	1	27	3	1	6/10/2024 12:34:06 PM
50	WG1931205-3d10 2008TL	1	28	3	1	6/10/2024 12:38:46 PM
51	WG1931205-4 2008TL	1	29	3	1	6/10/2024 12:43:26 PM

Alpha ICPMSRQ Seq

6/11/2024 7:37:56 AM

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
52	L2430592-07 2008TL	1	30	3	1	6/10/2024 12:48:06 PM
53	CCV	0	9	3	1	6/10/2024 12:52:47 PM
54	CCB	0	10	3	1	6/10/2024 12:57:32 PM
55	WG1931205-1 2008TL	1	25	3	1	6/10/2024 1:05:36 PM
56	L2429014-01 2008TL	1	31	3	1	6/10/2024 1:10:16 PM
57	L2430573-01 2008TL	1	32	3	1	6/10/2024 1:14:57 PM
58	LDR Check - 5xICSA	1	33	3	1	6/10/2024 1:19:38 PM
59	wg1931997-1 2008TL	1	34	3	1	6/10/2024 1:26:45 PM
60	wg1931997-2d10 2008TL	1	35	3	1	6/10/2024 1:31:27 PM
61	L2431889-01 2008TL	1	36	3	1	6/10/2024 1:36:10 PM
62	wg1931997-3d10 2008TL	1	37	3	1	6/10/2024 1:40:52 PM
63	wg1931997-4 2008TL	1	38	3	1	6/10/2024 1:45:33 PM
64	L2430095-01 2008TL	1	39	3	1	6/10/2024 1:50:13 PM
65	CCV	0	9	3	1	6/10/2024 1:54:53 PM
66	CCB	0	10	3	1	6/10/2024 2:00:50 PM
67	wg1931991-1 6020TL	1	40	3	1	6/10/2024 2:16:05 PM
68	wg1931991-2d10 6020TL	1	41	3	1	6/10/2024 2:20:46 PM
69	L2432183-01 6020TL	1	42	3	1	6/10/2024 2:25:27 PM
70	wg1931991-3d10 6020TL	1	43	3	1	6/10/2024 2:30:08 PM
71	wg1931991-4 6020TL	1	44	3	1	6/10/2024 2:34:49 PM
72	wg1931991-5d10 6020TL	1	45	3	1	6/10/2024 2:39:31 PM
73	wg1931991-6d5 6020TL	1	46	3	1	6/10/2024 2:44:13 PM
74	L2432183-02 6020TL	1	47	3	1	6/10/2024 2:48:55 PM
75	CCV	0	9	3	1	6/10/2024 2:54:38 PM
76	CCB	0	10	3	1	6/10/2024 2:59:23 PM
77	CCV	0	9	3	1	6/10/2024 3:24:07 PM
78	CCB	0	10	3	1	6/10/2024 3:28:52 PM
79	WG1930718-1 6020TL	1	48	3	1	6/10/2024 3:33:39 PM
80	WG1930718-2d10 6020TL	1	49	3	1	6/10/2024 3:38:22 PM
81	I2430219-04 6020TL	1	50	3	1	6/10/2024 3:43:03 PM
82	WG1930718-3d10 6020TL	1	51	3	1	6/10/2024 3:47:43 PM
83	WG1930718-4d10 6020TL	1	52	3	1	6/10/2024 3:52:24 PM
84	WG1930718-5d10 6020TL	1	53	3	1	6/10/2024 3:57:05 PM
85	WG1930718-6d5 6020TL	1	54	3	1	6/10/2024 4:01:46 PM
86	I2430219-01 6020TL	1	55	3	1	6/10/2024 4:06:27 PM
87	I2430219-02 6020TL	1	56	3	1	6/10/2024 4:11:09 PM
88	I2430219-03 6020TL	1	57	3	1	6/10/2024 4:15:51 PM
89	CCV	0	9	3	1	6/10/2024 4:20:33 PM
90	CCB	0	10	3	1	6/10/2024 4:25:18 PM
91	I2430219-10 6020TL	2	3	3	1	6/10/2024 4:31:30 PM
92	I2430219-05 6020TL	1	58	3	1	6/10/2024 4:36:10 PM
93	I2430219-06 6020TL	1	59	3	1	6/10/2024 4:40:53 PM
94	I2430219-07 6020TL	1	60	3	1	6/10/2024 4:45:36 PM
95	I2430219-08 6020TL	2	1	3	1	6/10/2024 4:50:19 PM
96	I2430219-09 6020TL	2	2	3	1	6/10/2024 4:55:00 PM
97	I2430219-04d10 6020TL	2	4	3	1	6/10/2024 4:59:42 PM
98	WG1930718-6d50 6020TL	2	5	3	1	6/10/2024 5:04:23 PM
99	I2430219-01d10 6020TL	2	6	3	1	6/10/2024 5:09:05 PM
100	I2430219-06d10 6020TL	2	7	3	1	6/10/2024 5:13:46 PM
101	CCV	0	9	3	1	6/10/2024 5:18:28 PM
102	CCB	0	10	3	1	6/10/2024 5:23:14 PM
103	WG1930675-1 6020SL	2	10	3	1	6/10/2024 5:29:02 PM
104	WG1930675-2d10 6020SL	2	11	3	1	6/10/2024 5:33:45 PM
105	I2430217-14 6020SL	2	12	3	1	6/10/2024 5:38:28 PM
106	WG1930675-3d10 6020SL	2	13	3	1	6/10/2024 5:43:12 PM
107	WG1930675-4d10 6020SL	2	14	3	1	6/10/2024 5:47:54 PM

Alpha ICPMSRQ Seq

6/11/2024 7:37:56 AM

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
108	WG1930675-5d10 6020SL	2	15	3	1	6/10/2024 5:52:35 PM
109	WG1930675-6d5 6020SL	2	16	3	1	6/10/2024 5:57:17 PM
110	I2430219-08d10 6020TL	2	8	3	1	6/10/2024 6:01:59 PM
111	I2430219-09d10 6020TL	2	9	3	1	6/10/2024 6:06:41 PM
112	I2430217-01 6020SL	2	17	3	1	6/10/2024 6:11:24 PM
113	CCV	0	9	3	1	6/10/2024 6:16:06 PM
114	CCB	0	10	3	1	6/10/2024 6:20:52 PM
115	I2430217-02 6020SL	2	18	3	1	6/10/2024 6:27:47 PM
116	I2430217-03 6020SL	2	19	3	1	6/10/2024 6:32:28 PM
117	I2430217-04 6020SL	2	20	3	1	6/10/2024 6:37:10 PM
118	I2430217-05 6020SL	2	21	3	1	6/10/2024 6:41:52 PM
119	I2430217-06 6020SL	2	22	3	1	6/10/2024 6:46:35 PM
120	I2430217-07 6020SL	2	23	3	1	6/10/2024 6:51:18 PM
121	I2430217-08 6020SL	2	24	3	1	6/10/2024 6:56:01 PM
122	I2430217-09 6020SL	2	25	3	1	6/10/2024 7:00:44 PM
123	I2430217-10 6020SL	2	26	3	1	6/10/2024 7:05:27 PM
124	I2430217-11 6020SL	2	27	3	1	6/10/2024 7:10:09 PM
125	CCV	0	9	3	1	6/10/2024 7:14:51 PM
126	CCB	0	10	3	1	6/10/2024 7:19:37 PM
127	wg1930656-1 6020SL	2	33	3	1	6/10/2024 7:24:24 PM
128	wg1930656-2d10 6020SL	2	34	3	1	6/10/2024 7:29:06 PM
129	I2430217-12 6020SL	2	28	3	1	6/10/2024 7:33:49 PM
130	I2430217-13 6020SL	2	29	3	1	6/10/2024 7:38:32 PM
131	I2430217-15 6020SL	2	30	3	1	6/10/2024 7:43:14 PM
132	I2430217-16 6020SL	2	31	3	1	6/10/2024 7:47:57 PM
133	I2430217-17 6020SL	2	32	3	1	6/10/2024 7:52:39 PM
134	L2430210-03 6020SL	2	35	3	1	6/10/2024 7:57:21 PM
135	wg1930656-3d10 6020SL	2	36	3	1	6/10/2024 8:02:05 PM
136	wg1930656-4d10 6020SL	2	37	3	1	6/10/2024 8:06:48 PM
137	CCV	0	9	3	1	6/10/2024 8:11:31 PM
138	CCB	0	10	3	1	6/10/2024 8:16:17 PM
139	L2430219-04 6020SL	2	40	3	1	6/10/2024 8:21:04 PM
140	wg1930656-7d10 6020SL	2	41	3	1	6/10/2024 8:25:47 PM
141	wg1930656-8d10 6020SL	2	42	3	1	6/10/2024 8:30:29 PM
142	wg1930656-9d10 6020SL	2	43	3	1	6/10/2024 8:35:12 PM
143	wg1930656-10d5 6020SL	2	44	3	1	6/10/2024 8:39:55 PM
144	wg1930656-5d10 6020SL	2	38	3	1	6/10/2024 8:44:38 PM
145	wg1930656-6d5 6020SL	2	39	3	1	6/10/2024 8:49:21 PM
146	L2430210-01 6020SL	2	45	3	1	6/10/2024 8:54:04 PM
147	L2430210-02 6020SL	2	46	3	1	6/10/2024 8:58:47 PM
148	L2430210-04 6020SL	2	47	3	1	6/10/2024 9:03:30 PM
149	CCV	0	9	3	1	6/10/2024 9:08:13 PM
150	CCB	0	10	3	1	6/10/2024 9:13:00 PM
151	L2430219-10 6020SL	2	57	3	1	6/10/2024 9:17:47 PM
152	L2430210-05 6020SL	2	48	3	1	6/10/2024 9:22:30 PM
153	L2430219-01 6020SL	2	49	3	1	6/10/2024 9:27:14 PM
154	L2430219-02 6020SL	2	50	3	1	6/10/2024 9:31:57 PM
155	L2430219-03 6020SL	2	51	3	1	6/10/2024 9:36:40 PM
156	L2430219-05 6020SL	2	52	3	1	6/10/2024 9:41:23 PM
157	L2430219-06 6020SL	2	53	3	1	6/10/2024 9:46:06 PM
158	L2430219-07 6020SL	2	54	3	1	6/10/2024 9:50:49 PM
159	L2430219-08 6020SL	2	55	3	1	6/10/2024 9:55:33 PM
160	L2430219-09 6020SL	2	56	3	1	6/10/2024 10:00:16 PM
161	CCV	0	9	3	1	6/10/2024 10:04:59 PM
162	CCB	0	10	3	1	6/10/2024 10:09:46 PM
163	CCV	0	9	3	1	6/10/2024 10:14:33 PM

Alpha ICPMSRQ Seq

6/11/2024 7:37:56 AM

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
164	CCB	0	10	3	1	6/10/2024 10:19:19 PM
165	CCB	0	10	3	1	

Alpha ICPMSRQ Seq

6/11/2024 7:30:11 PM

Sample List Summary:

Instrument ID: iCAP RQ

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
1	Rinse	0	1	3	1	6/11/2024 1:16:57 PM
2	CAL LOT #M24-1045	0	1	3	1	6/11/2024 1:21:35 PM
3	Blank MRC ICPMSRQ	4	49	3	1	6/11/2024 1:26:15 PM
4	0.2/20 Cal	0	2	3	1	6/11/2024 1:30:59 PM
5	1/100 Cal	0	3	3	1	6/11/2024 1:35:40 PM
6	10/10000 Cal	0	4	3	1	6/11/2024 1:40:21 PM
7	60/6000 Cal	0	5	3	1	6/11/2024 1:45:03 PM
8	120/120000 Cal	0	6	3	1	6/11/2024 1:49:46 PM
9	Sr 200ppb	4	55	3	1	6/11/2024 1:54:37 PM
10	ICV	0	7	3	1	6/11/2024 1:59:21 PM
11	ICB	0	10	3	1	6/11/2024 2:04:05 PM
12	ICSA	4	53	3	1	6/11/2024 2:15:33 PM
13	Rinse	0	1	3	1	6/11/2024 2:20:17 PM
14	CCV	0	9	3	1	6/11/2024 2:24:57 PM
15	CCB	0	10	3	1	6/11/2024 2:29:41 PM
16	WG1931192-1 2008SL	1	1	3	1	6/11/2024 2:38:03 PM
17	WG1931192-2d10 2008SL	1	2	3	1	6/11/2024 2:42:43 PM
18	I2430543-01 2008SL	1	3	3	1	6/11/2024 2:47:23 PM
19	WG1931192-3d10 2008SL	1	4	3	1	6/11/2024 2:52:04 PM
20	WG1931192-4 2008SL	1	5	3	1	6/11/2024 2:56:44 PM
21	I2430758-01 2008SL	1	16	3	1	6/11/2024 3:01:26 PM
22	I2430758-02 2008SL	1	17	3	1	6/11/2024 3:06:06 PM
23	I2430758-03 2008SL	1	18	3	1	6/11/2024 3:10:46 PM
24	I2430758-04 2008SL	1	19	3	1	6/11/2024 3:15:27 PM
25	I2430758-05 2008SL	1	20	3	1	6/11/2024 3:20:07 PM
26	CCV	0	9	3	1	6/11/2024 3:24:49 PM
27	CCB	0	10	3	1	6/11/2024 3:29:34 PM
28	WG1931265-1 2008TL	1	21	3	1	6/11/2024 3:37:03 PM
29	LDR Check (10/1)	4	1	3	1	6/11/2024 3:41:44 PM
30	LDR Check (1/0.1)	4	2	3	1	6/11/2024 3:49:50 PM
31	WG1931265-2d10 2008TL	1	22	3	1	6/11/2024 3:56:59 PM
32	L2430690-01 2008TL	1	23	3	1	6/11/2024 4:01:40 PM
33	WG1931265-3D10 2008TL	1	24	3	1	6/11/2024 4:06:22 PM
34	WG1931265-4 2008TL	1	25	3	1	6/11/2024 4:15:39 PM
35	L2430824-01 2008TL	1	26	3	1	6/11/2024 4:20:17 PM
36	I2430758-01d10 2008SL	1	27	3	1	6/11/2024 4:24:57 PM
37	I2430758-03d10 2008SL	1	28	3	1	6/11/2024 4:29:36 PM
38	CCV	0	9	3	1	6/11/2024 4:34:16 PM
39	CCB	0	10	3	1	6/11/2024 4:39:01 PM
40	WG1931233-1 6020TL	1	29	3	1	6/11/2024 4:50:56 PM
41	WG1931233-2d10 6020TL	1	30	3	1	6/11/2024 4:55:36 PM
42	I2428965-12 6020TL	1	31	3	1	6/11/2024 5:00:17 PM
43	WG1931233-3d10 6020TL	1	32	3	1	6/11/2024 5:04:57 PM
44	WG1931233-4 6020TL	1	33	3	1	6/11/2024 5:09:39 PM
45	WG1931233-5d10 6020TL	1	34	3	1	6/11/2024 5:14:20 PM
46	WG1931233-6d5 6020TL	1	35	3	1	6/11/2024 5:19:02 PM
47	I2430144-01 6020TL	1	38	3	1	6/11/2024 5:23:44 PM
48	CCV	0	9	3	1	6/11/2024 5:30:10 PM
49	CCB	0	10	3	1	6/11/2024 5:34:55 PM
50	L2430210-03 6020SL	1	39	3	1	6/11/2024 5:47:04 PM
51	wg1930656-3d10 6020SL	1	40	3	1	6/11/2024 5:51:43 PM

Alpha ICPMSRQ Seq

6/11/2024 7:30:11 PM

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
52	wg1930656-4d10 6020SL	1	41	3	1	6/11/2024 5:56:23 PM
53	wg1930656-5d10 6020SL	1	42	3	1	6/11/2024 6:01:04 PM
54	wg1930656-6d5 6020SL	1	43	3	1	6/11/2024 6:05:45 PM
55	L2430219-04 6020SL	1	44	3	1	6/11/2024 6:10:26 PM
56	wg1930656-7d10 6020SL	1	45	3	1	6/11/2024 6:15:07 PM
57	wg1930656-8d10 6020SL	1	46	3	1	6/11/2024 6:19:49 PM
58	wg1930656-9d10 6020SL	1	47	3	1	6/11/2024 6:24:31 PM
59	wg1930656-10d5 6020SL	1	48	3	1	6/11/2024 6:29:14 PM
60	CCV	0	9	3	1	6/11/2024 6:33:57 PM
61	CCB	0	10	3	1	6/11/2024 6:38:42 PM
62	L2430210-01 6020SL	1	49	3	1	6/11/2024 6:44:34 PM
63	L2430210-04 6020SL	1	50	3	1	6/11/2024 6:49:13 PM
64	L2430210-05 6020SL	1	51	3	1	6/11/2024 6:53:54 PM
65	L2430219-01 6020SL	1	52	3	1	6/11/2024 6:58:34 PM
66	L2430219-05 6020SL	1	53	3	1	6/11/2024 7:05:17 PM
67	L2430219-08 6020SL	1	54	3	1	6/11/2024 7:09:56 PM
68	L2430219-09 6020SL	1	55	3	1	6/11/2024 7:14:38 PM
69	CCV	0	9	3	1	6/11/2024 7:19:19 PM
70	CCB	0	10	3	1	6/11/2024 7:24:04 PM
71	I2430543-02 2008SL	1	6	3	1	
72	WG1931192-5d10 2008SL	1	7	3	1	
73	WG1931192-6 2008SL	1	8	3	1	
74	I2430543-03 2008SL	1	9	3	1	
75	I2430543-04 2008SL	1	10	3	1	
76	I2430543-05 2008SL	1	11	3	1	
77	I2430543-06 2008SL	1	12	3	1	
78	I2430543-07 2008SL	1	13	3	1	
79	I2430543-08 2008SL	1	14	3	1	
80	I2430543-09 2008SL	1	15	3	1	
81	CCV	0	9	3	1	
82	CCB	0	10	3	1	
83	wg1932106-1 6020SL	1	56	3	1	
84	I2428965-15 6020TL	1	37	3	1	
85	wg1932106-2d10 6020SL	1	57	3	1	
86	I2428965-13 6020TL	1	36	3	1	
87	L2430865-08 6020SL	2	3	3	1	
88	L2430865-07 6020SL	1	58	3	1	
89	wg1932106-3d10 6020SL	1	59	3	1	
90	wg1932106-4 6020SL	1	60	3	1	
91	wg1932106-5d10 6020SL	2	1	3	1	
92	wg1932106-6d5 6020SL	2	2	3	1	
93	CCV	0	9	3	1	
94	CCB	0	10	3	1	
95	L2430865-09 6020SL	2	4	3	1	
96	L2430865-10 6020SL	2	5	3	1	
97	L2431274-13 6020SL	2	6	3	1	
98	L2431274-14 6020SL	2	7	3	1	
99	L2431274-15 6020SL	2	8	3	1	
100	L2432185-01 6020SL	2	9	3	1	
101	L2432185-02 6020SL	2	10	3	1	
102	L2432185-03 6020SL	2	11	3	1	
103	L2432185-04 6020SL	2	12	3	1	
104	L2432185-05 6020SL	2	13	3	1	
105	CCV	0	9	3	1	
106	CCB	0	10	3	1	
107	WG1931254-1 6020TL	2	17	3	1	

Alpha ICPMSRQ Seq

6/11/2024 7:30:11 PM

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
108	WG1931254-2d10 6020TL	2	18	3	1	
109	I2430764-01 6020TL	2	19	3	1	
110	I2430764-02 6020TL	2	20	3	1	
111	I2430764-03 6020TL	2	21	3	1	
112	I2430764-06 6020TL	2	22	3	1	
113	L2432185-06 6020SL	2	14	3	1	
114	L2432185-07 6020SL	2	15	3	1	
115	L2432185-08 6020SL	2	16	3	1	
116	CCV	0	9	3	1	
117	CCB	0	10	3	1	
118	CCV	0	9	3	1	
119	CCB	0	10	3	1	
120	CCB	0	10	3	1	

METALS ELN REPORT

Workgroup: WG1930656

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 3005A	1:1 HNO3	tHNO324212 41632HCR	1:1 HCl	tHCL242305 0216FAO	METALS	METSPIKE2	IPS, FPS, MIX	METPSMS	IPS, FPS, MIX	140, 326

Additional Reagent/Std

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol ml	Comments
L2430210-01 SAMP	06/06/24 14:13	Heidy Rompich	NA	50	<2		06/06/24 14:13	9	94.9	06/06/24 17:13	50	A
L2430210-02 SAMP	06/06/24 14:13	Heidy Rompich	NA	50	<2		06/06/24 14:13	9	94.9	06/06/24 17:13	50	A
L2430210-03 SAMP	06/06/24 14:13	Heidy Rompich	NA	50	<2		06/06/24 14:13	9	94.9	06/06/24 17:13	50	A
L2430210-04 SAMP	06/06/24 14:13	Heidy Rompich	NA	50	<2		06/06/24 14:13	9	94.9	06/06/24 17:13	50	A
L2430210-05 SAMP	06/06/24 14:13	Heidy Rompich	NA	50	<2		06/06/24 14:13	9	94.9	06/06/24 17:13	50	A
L2430219-01 SAMP	06/06/24 14:13	Heidy Rompich	NA	50	<2		06/06/24 14:13	9	94.9	06/06/24 17:13	50	H
L2430219-02 SAMP	06/06/24 14:13	Heidy Rompich	NA	50	<2		06/06/24 14:13	9	94.9	06/06/24 17:13	50	H
L2430219-03 SAMP	06/06/24 14:13	Heidy Rompich	NA	50	<2		06/06/24 14:13	9	94.9	06/06/24 17:13	50	H
L2430219-04 SAMP	06/06/24 14:13	Heidy Rompich	NA	50	<2		06/06/24 14:13	9	94.9	06/06/24 17:13	50	H
L2430219-05 SAMP	06/06/24 14:13	Heidy Rompich	NA	50	<2		06/06/24 14:13	9	94.9	06/06/24 17:13	50	H
L2430219-06 SAMP	06/06/24 14:13	Heidy Rompich	NA	50	<2		06/06/24 14:13	9	94.9	06/06/24 17:13	50	H
L2430219-07 SAMP	06/06/24 14:13	Heidy Rompich	NA	50	<2		06/06/24 14:13	9	94.9	06/06/24 17:13	50	H
L2430219-08 SAMP	06/06/24 14:13	Heidy Rompich	NA	50	<2		06/06/24 14:13	9	94.9	06/06/24 17:13	50	H
L2430219-09 SAMP	06/06/24 14:13	Heidy Rompich	NA	50	<2		06/06/24 14:13	9	94.9	06/06/24 17:13	50	H

METALS ELN REPORT

Workgroup: WG1930656

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol ml	Comments
L2430219-10 SAMP	06/06/24 14:13	Heidy Rompich	NA	50	<2		06/06/24 14:13	9	94.9	06/06/24 17:13	50	H
WG1930656-1 BLANK	06/06/24 14:13	Heidy Rompich	NA	50	<2		06/06/24 14:13	9	94.9	06/06/24 17:13	50	FM2421212236 HCR
WG1930656-2 LCS	06/06/24 14:13	Heidy Rompich	NA	50	<2	0.5	06/06/24 14:13	9	94.9	06/06/24 17:13	50	eln:efm
WG1930656-3 MS	06/06/24 14:13	Heidy Rompich	NA	50	<2	0.5	06/06/24 14:13	9	94.9	06/06/24 17:13	50	A
WG1930656-4 MSD	06/06/24 14:13	Heidy Rompich	NA	50	<2	0.5	06/06/24 14:13	9	94.9	06/06/24 17:13	50	A
WG1930656-5 PS	06/06/24 14:13	Heidy Rompich	NA	50	<2		06/06/24 14:13	9	94.9	06/06/24 17:13	50	
WG1930656-6 SERDIL	06/06/24 14:13	Heidy Rompich	NA	50	<2		06/06/24 14:13	9	94.9	06/06/24 17:13	50	
WG1930656-7 MS	06/06/24 14:13	Heidy Rompich	NA	50	<2	0.5	06/06/24 14:13	9	94.9	06/06/24 17:13	50	H
WG1930656-8 MSD	06/06/24 14:13	Heidy Rompich	NA	50	<2	0.5	06/06/24 14:13	9	94.9	06/06/24 17:13	50	H
WG1930656-9 PS	06/06/24 14:13	Heidy Rompich	NA	50	<2		06/06/24 14:13	9	94.9	06/06/24 17:13	50	
WG1930656-10 SERDIL	06/06/24 14:13	Heidy Rompich	NA	50	<2		06/06/24 14:13	9	94.9	06/06/24 17:13	50	IPS2418041124 HCR

Reported: 12-JUN-24 01:18 PM

METALS ELN REPORT

Workgroup: WG1930656

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

Reported: 12-JUN-24 01:18 PM

METALS ELN REPORT

Workgroup: WG1930718

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 3005A	1:1 HNO3	tHNO324212 41632HCR	1:1 HCl	tHCL242305 0216FAO	METALS	METSPIKE2	IPS, FPS, MIX	METPSMS	IPS, FPS, MIX	140, 326

Additional Reagent/Std

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2430219-01 SAMP	06/06/24 20:33	Christine Hamor	50	<2		06/06/24 20:33	7	94.3	06/06/24 23:33	50	
L2430219-02 SAMP	06/06/24 20:33	Christine Hamor	50	<2		06/06/24 20:33	7	94.3	06/06/24 23:33	50	
L2430219-03 SAMP	06/06/24 20:33	Christine Hamor	50	<2		06/06/24 20:33	7	94.3	06/06/24 23:33	50	
L2430219-04 SAMP	06/06/24 20:33	Christine Hamor	50	<2		06/06/24 20:33	7	94.3	06/06/24 23:33	50	
L2430219-05 SAMP	06/06/24 20:33	Christine Hamor	50	<2		06/06/24 20:33	7	94.3	06/06/24 23:33	50	
L2430219-06 SAMP	06/06/24 20:33	Christine Hamor	50	<2		06/06/24 20:33	7	94.3	06/06/24 23:33	50	
L2430219-07 SAMP	06/06/24 20:33	Christine Hamor	50	<2		06/06/24 20:33	7	94.3	06/06/24 23:33	50	
L2430219-08 SAMP	06/06/24 20:33	Christine Hamor	50	<2		06/06/24 20:33	7	94.3	06/06/24 23:33	50	
L2430219-09 SAMP	06/06/24 20:33	Christine Hamor	50	<2		06/06/24 20:33	7	94.3	06/06/24 23:33	50	
L2430219-10 SAMP	06/06/24 20:33	Christine Hamor	50	<2		06/06/24 20:33	7	94.3	06/06/24 23:33	50	
WG1930718-1 BLANK	06/06/24 20:33	Christine Hamor	50	<2		06/06/24 20:33	7	94.3	06/06/24 23:33	50	FM2423050227 FAO
WG1930718-2 LCS	06/06/24 20:33	Christine Hamor	50	<2	.5	06/06/24 20:33	7	94.3	06/06/24 23:33	50	IPS241804112 4HCR
WG1930718-3 MS	06/06/24 20:33	Christine Hamor	50	<2	.5	06/06/24 20:33	7	94.3	06/06/24 23:33	50	

Reported: 12-JUN-24 01:18 PM

METALS ELN REPORT

Workgroup: WG1930718

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
WG1930718-4 MSD	06/06/24 20:33	Christine Hamor	50	<2	.5	06/06/24 20:33	7	94.3	06/06/24 23:33	50	ELN check: HCR
WG1930718-5 PS	06/06/24 20:33	Christine Hamor	50	<2		06/06/24 20:33	7	94.3	06/06/24 23:33	50	
WG1930718-6 SERDIL	06/06/24 20:33	Christine Hamor	50	<2		06/06/24 20:33	7	94.3	06/06/24 23:33	50	

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

Reported: 12-JUN-24 01:18 PM

Inorganic Data
(Mercury Analysis)

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 08:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1930993.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 08:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1930993.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 08:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1930993.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 08:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1930993.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 08:58
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1930993.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 09:01
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1930993.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 09:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1930993.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 09:08
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1930993.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 09:11
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1930993.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-10	**Date Collected**	: 05/30/24 14:25
Client ID	: FB	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 09:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1930993.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1930719-1	**Date Collected**	: NA
Client ID	: WG1930719-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/07/24 08:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1930993.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/08/24 13:18
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: DJR
Lab File ID	: WG1931556.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/08/24 13:21
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: DJR
Lab File ID	: WG1931556.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/08/24 13:24
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: DJR
Lab File ID	: WG1931556.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/08/24 12:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: DJR
Lab File ID	: WG1931556.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/08/24 13:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: DJR
Lab File ID	: WG1931556.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/08/24 13:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: DJR
Lab File ID	: WG1931556.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/08/24 13:34
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: DJR
Lab File ID	: WG1931556.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/08/24 13:38
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: DJR
Lab File ID	: WG1931556.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/08/24 13:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: DJR
Lab File ID	: WG1931556.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-10	**Date Collected**	: 05/30/24 14:25
Client ID	: FB	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/08/24 13:58
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: DJR
Lab File ID	: WG1931556.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1930658-1	**Date Collected**	: NA
Client ID	: WG1930658-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/08/24 12:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: DJR
Lab File ID	: WG1931556.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: NIC3	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1838031-1			R1838031-3			R1838031-5		R1838031-7	
Date Analyzed :	06/07/24 07:00			06/07/24 08:32			06/07/24 09:14		06/07/24 10:03	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury	0.00300	0.0030	99	0.0050	0.00500	101	0.00520	104	0.00520	103

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: NIC1	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1838419-1			R1838419-3			R1838419-5		R1838419-7	
Date Analyzed :	06/08/24 11:23			06/08/24 13:01			06/08/24 13:41		06/08/24 14:04	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury	0.00300	0.0030	100	0.0050	0.00490	98	0.00490	98	0.00470	95

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: NIC3		

	Initial Calibration Blank	Continuing Calibration Blank(s)			Preparation Blank
Lab ID :	R1838031-2	R1838031-4	R1838031-6	R1838031-8	WG1930719-1
Date Analyzed :	06/07/24 07:04	06/07/24 08:35	06/07/24 09:18	06/07/24 10:07	06/07/24 08:22
Parameter	mg/l Q	mg/l Q	mg/l Q	mg/l Q	mg/l Q
Mercury	0.0000915 U	0.0000915 U	0.0000915 U	0.0000915 U	0.00009 U

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: NIC1		

	Initial Calibration Blank	Continuing Calibration Blank(s)			Preparation Blank
Lab ID :	R1838419-2	R1838419-4	R1838419-6	R1838419-8	WG1930658-1
Date Analyzed :	06/08/24 11:27	06/08/24 13:05	06/08/24 13:44	06/08/24 14:07	06/08/24 12:31
Parameter	mg/l Q	mg/l Q	mg/l Q	mg/l Q	mg/l Q
Mercury	0.0000915 U	0.0000915 U	0.0000915 U	0.0000915 U	0.00009 U

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix**	: WATER
Lab Sample ID	: L2430219-04		
Matrix Spike	: WG1930719-3	**MS Analysis Date**	: 06/07/24 08:41
Matrix Spike Dup	: WG1930719-4	**MSD Analysis Date**	: 06/07/24 08:45

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Mercury, Total	ND	0.005	0.00469	94	0.005	0.00491	98	5	75-125	20

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2430210-03		
Matrix Spike	: WG1930658-3	**MS Analysis Date**	: 06/08/24 12:41
Matrix Spike Dup	: WG1930658-4	**MSD Analysis Date**	: 06/08/24 12:45

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Mercury, Dissolved	ND	0.005	0.00468	94	0.005	0.00468	94	0	75-125	20

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix**	: WATER
Lab Sample ID	: L2430219-04		
Matrix Spike	: WG1930658-5	**MS Analysis Date**	: 06/08/24 12:51
Matrix Spike Dup	: WG1930658-6	**MSD Analysis Date**	: 06/08/24 12:55

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Mercury, Dissolved	ND	0.005	0.00458	92	0.005	0.00475	95	4	75-125	20

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1930719-2	**LCS Analysis Date**	: 06/07/24 08:25
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Mercury, Total	0.00100	0.000980	99.					80-120	20

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1930658-2	**LCS Analysis Date**	: 06/08/24 12:35
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Mercury, Dissolved	0.00100	0.000990	99.					80-120	20

Form 12
Preparation Log

Client	:	**Alpha Geoscience**	**Lab Number**	:	**L2430219**
Project Name	:	**HUNTINGTON READY MIXED**	**Project Number**	:	**20116**
Matrix	:	**WATER**	**Prep Method**	:	**EPA 7470A**

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2430219-01	06/06/24 20:39	-	25
L2430219-02	06/06/24 20:39	-	25
L2430219-03	06/06/24 20:39	-	25
L2430219-04	06/06/24 20:39	-	25
L2430219-05	06/06/24 20:39	-	25
L2430219-06	06/06/24 20:39	-	25
L2430219-07	06/06/24 20:39	-	25
L2430219-08	06/06/24 20:39	-	25
L2430219-09	06/06/24 20:39	-	25
L2430219-10	06/06/24 20:39	-	25
WG1930719-1	06/06/24 20:39	-	25
WG1930719-2	06/06/24 20:39	-	25
WG1930719-3	06/06/24 20:39	-	25
WG1930719-4	06/06/24 20:39	-	25

Form 12
Preparation Log

Client	: **Alpha Geoscience**	**Lab Number**	: **L2430219**
Project Name	: **HUNTINGTON READY MIXED**	**Project Number**	: **20116**
Matrix	: **WATER**	**Prep Method**	: **EPA 7470A**

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2430219-01	06/06/24 16:15	-	25
L2430219-02	06/06/24 16:15	-	25
L2430219-03	06/06/24 16:15	-	25
L2430219-04	06/06/24 16:15	-	25
L2430219-05	06/06/24 16:15	-	25
L2430219-06	06/06/24 16:15	-	25
L2430219-07	06/06/24 16:15	-	25
L2430219-08	06/06/24 16:15	-	25
L2430219-09	06/06/24 16:15	-	25
L2430219-10	06/06/24 16:15	-	25
WG1930658-1	06/06/24 16:15	-	25
WG1930658-2	06/06/24 16:15	-	25
WG1930658-3	06/06/24 16:15	-	25
WG1930658-4	06/06/24 16:15	-	25
WG1930658-5	06/06/24 16:15	-	25
WG1930658-6	06/06/24 16:15	-	25

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: NIC3	**Analysis Method**	: 1,7470A
Start Date	: 06/07/24 07:00	**End Date**	: 06/07/24 10:07

Sample Number	Dilution Factor	Analysis Time	Mercury, Total
R1838031-1 ICV	1	07:00:54	X
R1838031-2 ICB	1	07:04:13	X
WG1930719-1 BLANK	1	08:22:24	X
WG1930719-2 LCS	1	08:25:42	X
L2430219-04	1	08:29:00	X
R1838031-3 CCV	1	08:32:19	X
R1838031-4 CCB	1	08:35:37	X
WG1930719-3 MS	1	08:41:51	X
WG1930719-4 MSD	1	08:45:10	X
L2430219-01	1	08:48:28	X
L2430219-02	1	08:51:47	X
L2430219-03	1	08:55:05	X
L2430219-05	1	08:58:23	X
L2430219-06	1	09:01:41	X
L2430219-07	1	09:05:00	X
L2430219-08	1	09:08:18	X
L2430219-09	1	09:11:36	X
R1838031-5 CCV	1	09:14:54	X
R1838031-6 CCB	1	09:18:11	X
L2430219-10	1	09:30:44	X
R1838031-7 CCV	1	10:03:46	X
R1838031-8 CCB	1	10:07:04	X

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Instrument ID	: NIC1	**Analysis Method**	: 1,7470A
Start Date	: 06/08/24 11:23	**End Date**	: 06/08/24 14:07

Sample Number	Dilution Factor	Analysis Time	Mercury, Dissolved
R1838419-1 ICV	1	11:23:41	X
R1838419-2 ICB	1	11:27:01	X
WG1930658-1 BLANK	1	12:31:48	X
WG1930658-2 LCS	1	12:35:08	X
WG1930658-3 MS	1	12:41:47	X
WG1930658-4 MSD	1	12:45:05	X
L2430219-04	1	12:48:25	X
WG1930658-5 MS	1	12:51:45	X
WG1930658-6 MSD	1	12:55:02	X
R1838419-3 CCV	1	13:01:42	X
R1838419-4 CCB	1	13:05:01	X
L2430219-01	1	13:18:16	X
L2430219-02	1	13:21:34	X
L2430219-03	1	13:24:52	X
L2430219-05	1	13:28:11	X
L2430219-06	1	13:31:29	X
L2430219-07	1	13:34:47	X
L2430219-08	1	13:38:06	X
R1838419-5 CCV	1	13:41:24	X
R1838419-6 CCB	1	13:44:42	X
L2430219-09	1	13:55:28	X
L2430219-10	1	13:58:46	X
R1838419-7 CCV	1	14:04:21	X
R1838419-8 CCB	1	14:07:39	X

Date Created: 03/19/18
Created By: Jason Hebert
File: PM4631-1
Page: 1

MERCURY by 7470A, 245.1 (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120	20	75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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File: PM9836-1
Page: 1

METALS by 7470A (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120		75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 01/22/21
Created By: Jason Hebert
File: PM9837-1
Page: 1

METALS by 7471B (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.08	0.05216	mg/kg	72-128		80-120	20	20		28 days	Metals Only-Glass 60mL/2oz unpreserv

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Title :
Date : 06/07/2024
Name :

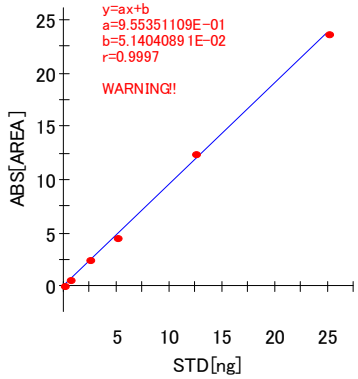
Method

STD
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

SMP
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec

Calib



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	0.0594	0.0084	-	06/07/2024 06:39	JWN,NIC3
2	0.200	2.500	2.500	2.500	0.500	0.5365	0.5078	1.6	06/07/2024 06:42	JWN,NIC3
3	1.000	2.500	2.500	2.500	2.500	2.4419	2.5022	0.1	06/07/2024 06:45	JWN,NIC3
4	2.000	2.500	2.500	2.500	5.000	4.5420	4.7005	6.0	06/07/2024 06:49	JWN,NIC3
5	5.000	2.500	2.500	2.500	12.500	12.4168	12.9433	3.5	06/07/2024 06:52	JWN,NIC3
6	10.000	2.500	2.500	2.500	25.000	23.7803	24.8379	0.6	06/07/2024 06:55	JWN,NIC3

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	ICV	2.500	2.500	2.500	7.1757	7.4573	2.983	-	06/07/2024 07:00	JWN,NIC3
2	ICB	2.500	2.500	2.500	0.0612	0.0103	0.004	-	06/07/2024 07:04	JWN,NIC3
3	0.2PPB	2.500	2.500	2.500	0.5281	0.4990	0.200	-	06/07/2024 07:08	JWN,NIC3
4	wg1930652-1 wg1930652	2.500	2.500	2.500	0.0793	0.0292	0.012	-	06/07/2024 07:24	JWN,NIC3
5	wg1930652-2 wg1930652	2.500	2.500	2.500	2.4776	2.5396	1.016	-	06/07/2024 07:27	JWN,NIC3
6	L2430986-05 wg1930652	2.500	2.500	2.500	0.0819	0.0319	0.013	-	06/07/2024 07:30	JWN,NIC3

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	wg1930652-3 wg1930652	2.500	2.500	2.500	11.9684	12.4739	4.990	-	06/07/2024 07:34	JWN,NIC3
8	wg1930652-4 wg1930652	2.500	2.500	2.500	0.0840	0.0341	0.014	-	06/07/2024 07:37	JWN,NIC3
9	L2431008-01 wg1930652	2.500	2.500	2.500	0.0808	0.0308	0.012	-	06/07/2024 07:40	JWN,NIC3
10	wg1930719-1 wg1930719	2.500	2.500	2.500	0.0805	0.0305	0.012	-	06/07/2024 08:22	JWN,NIC3
11	wg1930719-2 wg1930719	2.500	2.500	2.500	2.4069	2.4656	0.986	-	06/07/2024 08:25	JWN,NIC3
12	L2430219-04 wg1930719	2.500	2.500	2.500	0.0891	0.0395	0.016	-	06/07/2024 08:29	JWN,NIC3
13	Check STD(5ug/L)	2.500	2.500	2.500	12.0811	12.5919	5.037	100.7	06/07/2024 08:32	JWN,NIC3
14	Check Blank	2.500	2.500	2.500	0.0647	0.0139	0.006	-	06/07/2024 08:35	JWN,NIC3
15	wg1930719-3 wg1930719	2.500	2.500	2.500	11.2717	11.7447	4.698	-	06/07/2024 08:41	JWN,NIC3
16	wg1930719-4 wg1930719	2.500	2.500	2.500	11.7897	12.2869	4.915	-	06/07/2024 08:45	JWN,NIC3
17	L2430219-01 wg1930719	2.500	2.500	2.500	0.1126	0.0641	0.026	-	06/07/2024 08:48	JWN,NIC3
18	L2430219-02 wg1930719	2.500	2.500	2.500	0.1106	0.0620	0.025	-	06/07/2024 08:51	JWN,NIC3
19	L2430219-03 wg1930719	2.500	2.500	2.500	0.1010	0.0519	0.021	-	06/07/2024 08:55	JWN,NIC3
20	L2430219-05 wg1930719	2.500	2.500	2.500	0.1095	0.0608	0.024	-	06/07/2024 08:58	JWN,NIC3
21	L2430219-06 wg1930719	2.500	2.500	2.500	0.1238	0.0758	0.030	-	06/07/2024 09:01	JWN,NIC3
22	L2430219-07 wg1930719	2.500	2.500	2.500	0.0946	0.0452	0.018	-	06/07/2024 09:05	JWN,NIC3
23	L2430219-08 wg1930719	2.500	2.500	2.500	0.0956	0.0463	0.019	-	06/07/2024 09:08	JWN,NIC3
24	L2430219-09 wg1930719	2.500	2.500	2.500	0.1128	0.0643	0.026	-	06/07/2024 09:11	JWN,NIC3
25	Check STD(5ug/L)	2.500	2.500	2.500	12.5073	13.0380	5.215	104.3	06/07/2024 09:14	JWN,NIC3
26	Check Blank	2.500	2.500	2.500	0.0627	0.0118	0.005	-	06/07/2024 09:18	JWN,NIC3
27	L2430219-10 wg1930719	2.500	2.500	2.500	0.0952	0.0458	0.018	-	06/07/2024 09:30	JWN,NIC3
28	WG1930715-2 WG1930715	2.500	2.500	2.500	4.1977	4.3401	1.736	-	06/07/2024 09:34	JWN,NIC3
29	wg1930869-1 wg1930869	2.500	2.500	2.500	0.0957	0.0464	0.019	-	06/07/2024 09:37	JWN,NIC3
30	wg1930869-2 wg1930869	2.500	2.500	2.500	2.4348	2.4948	0.998	-	06/07/2024 09:40	JWN,NIC3
31	wg1930869-3 wg1930869	2.500	2.500	2.500	2.4432	2.5036	1.001	-	06/07/2024 09:43	JWN,NIC3
32	L2429624-01 wg1930869	2.500	2.500	2.500	0.0842	0.0343	0.014	-	06/07/2024 09:47	JWN,NIC3
33	L2429624-02 wg1930869	2.500	2.500	2.500	0.0848	0.0350	0.014	-	06/07/2024 09:50	JWN,NIC3
34	L2429624-03 wg1930869	2.500	2.500	2.500	0.0890	0.0394	0.016	-	06/07/2024 09:53	JWN,NIC3
35	L2429704-01 wg1930869	2.500	2.500	2.500	0.1363	0.0889	0.036	-	06/07/2024 09:57	JWN,NIC3
36	L2429704-02 wg1930869	2.500	2.500	2.500	0.0837	0.0338	0.014	-	06/07/2024 10:00	JWN,NIC3
37	Check STD(5ug/L)	2.500	2.500	2.500	12.3740	12.8985	5.159	103.2	06/07/2024 10:03	JWN,NIC3
38	Check Blank	2.500	2.500	2.500	0.0614	0.0105	0.004	-	06/07/2024 10:07	JWN,NIC3

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
39	L2429704-03 wg1930869	2.500	2.500	2.500	0.0900	0.0404	0.016	-	06/07/2024 10:10	JWN,NIC3
40	L2429704-04 wg1930869	2.500	2.500	2.500	0.0817	0.0317	0.013	-	06/07/2024 10:13	JWN,NIC3
41	Check STD(5ug/L)	2.500	2.500	2.500	12.3953	12.9208	5.168	103.4	06/07/2024 11:58	JWN,NIC3
42	Check Blank	2.500	2.500	2.500	0.0554	0.0042	0.002	-	06/07/2024 12:01	JWN,NIC3
43	wg1930637-1 wg1930637	2.500	2.500	2.500	0.0749	0.0246	0.010	-	06/07/2024 12:06	JWN,NIC3
44	wg1930637-2 wg1930637	2.500	2.500	2.500	2.2909	2.3442	0.938	-	06/07/2024 12:10	JWN,NIC3
45	L2430237-01 wg1930637	2.500	2.500	2.500	4.4446	4.5985	1.839	-	06/07/2024 12:13	JWN,NIC3
46	wg1930637-3 wg1930637	2.500	2.500	2.500	15.8764	16.5646	6.626	-	06/07/2024 12:16	JWN,NIC3
47	wg1930637-4 wg1930637	2.500	2.500	2.500	4.5292	4.6871	1.875	-	06/07/2024 12:19	JWN,NIC3
48	L2430237-02 wg1930637	2.500	2.500	2.500	0.4378	0.4045	0.162	-	06/07/2024 12:23	JWN,NIC3
49	Check STD(5ug/L)	2.500	2.500	2.500	12.2686	12.7882	5.115	102.3	06/07/2024 12:26	JWN,NIC3
50	Check Blank	2.500	2.500	2.500	0.0557	0.0045	0.002	-	06/07/2024 12:29	JWN,NIC3
51	L2430237-03 wg1930637	2.500	2.500	2.500	0.0924	0.0429	0.017	-	06/07/2024 12:38	JWN,NIC3
52	I2430269-01 WG1930112	2.500	2.500	2.500	0.2523	0.2103	0.084	-	06/07/2024 12:41	JWN,NIC3
53	I2430269-02 WG1930112	2.500	2.500	2.500	0.2018	0.1574	0.063	-	06/07/2024 12:45	JWN,NIC3
54	I2430269-03 WG1930112	2.500	2.500	2.500	0.2493	0.2071	0.083	-	06/07/2024 12:48	JWN,NIC3
55	I2430269-04 WG1930112	2.500	2.500	2.500	0.2451	0.2027	0.081	-	06/07/2024 12:51	JWN,NIC3
56	I2430269-05 WG1930112	2.500	2.500	2.500	0.2195	0.1760	0.070	-	06/07/2024 12:55	JWN,NIC3
57	I2430269-06 WG1930112	2.500	2.500	2.500	0.2486	0.2064	0.083	-	06/07/2024 12:58	JWN,NIC3
58	I2430269-07 WG1930112	2.500	2.500	2.500	0.2538	0.2119	0.085	-	06/07/2024 13:01	JWN,NIC3
59	I2430269-08 WG1930112	2.500	2.500	2.500	0.2414	0.1989	0.080	-	06/07/2024 13:05	JWN,NIC3
60	I2430269-09 WG1930112	2.500	2.500	2.500	0.2218	0.1784	0.071	-	06/07/2024 13:08	JWN,NIC3
61	Check STD(5ug/L)	2.500	2.500	2.500	12.1376	12.6511	5.060	101.2	06/07/2024 13:11	JWN,NIC3
62	Check Blank	2.500	2.500	2.500	0.0526	0.0013	0.001	-	06/07/2024 13:14	JWN,NIC3
63	wg1931161-1 wg1931161	2.500	2.500	2.500	0.0660	0.0153	0.006	-	06/07/2024 14:15	JWN,NIC3
64	wg1931161-2 wg1931161	2.500	2.500	2.500	2.3273	2.3823	0.953	-	06/07/2024 14:19	JWN,NIC3
65	I2430598-01 wg1931161	2.500	2.500	2.500	0.1147	0.0663	0.027	-	06/07/2024 14:22	JWN,NIC3
66	wg1931161-3 wg1931161	2.500	2.500	2.500	11.5159	12.0003	4.800	-	06/07/2024 14:25	JWN,NIC3
67	wg1931161-4 wg1931161	2.500	2.500	2.500	0.1031	0.0541	0.022	-	06/07/2024 14:28	JWN,NIC3
68	wg1931019-1 wg1931019	2.500	2.500	2.500	0.1374	0.0900	0.036	-	06/07/2024 14:32	JWN,NIC3
69	wg1931019-2 wg1931019	2.500	2.500	2.500	2.4004	2.4588	0.984	-	06/07/2024 14:35	JWN,NIC3
70	I2431686-01 wg1931019	2.500	2.500	2.500	0.1114	0.0628	0.025	-	06/07/2024 14:38	JWN,NIC3

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
71	wg1931019-3 wg1931019	2.500	2.500	2.500	12.0803	12.5911	5.036	-	06/07/2024 14:42	JWN,NIC3
72	wg1931019-4 wg1931019	2.500	2.500	2.500	0.1015	0.0524	0.021	-	06/07/2024 14:45	JWN,NIC3
73	Check STD(5ug/L)	2.500	2.500	2.500	12.1242	12.6370	5.055	101.1	06/07/2024 14:48	JWN,NIC3
74	Check Blank	2.500	2.500	2.500	0.0611	0.0101	0.004	-	06/07/2024 14:52	JWN,NIC3
75	wg1930731-1 wg1930731	2.500	2.500	2.500	0.0705	0.0200	0.008	-	06/07/2024 15:22	JWN,NIC3
76	wg1930731-2 wg1930731	2.500	2.500	2.500	2.4194	2.4787	0.991	-	06/07/2024 15:26	JWN,NIC3
77	L2430215-02 wg1930731	2.500	2.500	2.500	0.1399	0.0926	0.037	-	06/07/2024 15:29	JWN,NIC3
78	wg1930731-3 wg1930731	2.500	2.500	2.500	11.6928	12.1855	4.874	-	06/07/2024 15:32	JWN,NIC3
79	wg1930731-4 wg1930731	2.500	2.500	2.500	12.1043	12.6162	5.046	-	06/07/2024 15:36	JWN,NIC3
80	L2430215-01 wg1930731	2.500	2.500	2.500	0.0842	0.0343	0.014	-	06/07/2024 15:39	JWN,NIC3
81	L2430215-03 wg1930731	2.500	2.500	2.500	0.0753	0.0250	0.010	-	06/07/2024 15:42	JWN,NIC3
82	L2430215-04 wg1930731	2.500	2.500	2.500	0.0878	0.0381	0.015	-	06/07/2024 15:46	JWN,NIC3
83	I2430117-01 wg1928939	2.500	2.500	2.500	0.3705	0.3340	0.134	-	06/07/2024 16:03	JWN,NIC3
84	I2430117-02 wg1928939	2.500	2.500	2.500	0.3180	0.2791	0.112	-	06/07/2024 16:07	JWN,NIC3
85	Check STD(5ug/L)	2.500	2.500	2.500	11.9562	12.4612	4.984	99.7	06/07/2024 16:10	JWN,NIC3
86	Check Blank	2.500	2.500	2.500	0.0539	0.0026	0.001	-	06/07/2024 16:13	JWN,NIC3
87	I2430117-04 wg1928939	2.500	2.500	2.500	0.4491	0.4163	0.167	-	06/07/2024 16:21	JWN,NIC3
88	I2430117-05 wg1928939	2.500	2.500	2.500	0.5246	0.4953	0.198	-	06/07/2024 16:25	JWN,NIC3
89	XI2430117-06 wg1928939	2.500	2.500	2.500	0.5561	0.5283	0.211	-	06/07/2024 16:28	JWN,NIC3
90	I2430117-06 wg1928939	2.500	2.500	2.500	0.5276	0.4985	0.199	-	06/07/2024 17:00	DJR,NIC3
91	Check STD(5ug/L)	2.500	2.500	2.500	11.4316	11.9121	4.765	95.3	06/07/2024 17:04	DJR,NIC3
92	Check Blank	2.500	2.500	2.500	0.0523	0.0009	0.000	-	06/07/2024 17:07	DJR,NIC3
93	L2428908-01 wg1930121	2.500	2.500	2.500	0.1450	0.0980	0.039	-	06/07/2024 17:14	DJR,NIC3
94	L2428908-02 wg1930121	2.500	2.500	2.500	0.0673	0.0166	0.007	-	06/07/2024 17:17	DJR,NIC3
95	L2428908-03 wg1930121	2.500	2.500	2.500	0.0536	0.0023	0.001	-	06/07/2024 17:20	DJR,NIC3
96	L2428908-04 wg1930121	2.500	2.500	2.500	0.0828	0.0329	0.013	-	06/07/2024 17:24	DJR,NIC3
97	Check STD(5ug/L)	2.500	2.500	2.500	11.2124	11.6826	4.673	93.5	06/07/2024 17:27	DJR,NIC3
98	Check Blank	2.500	2.500	2.500	0.0523	0.0009	0.000	-	06/07/2024 17:30	DJR,NIC3
99	L2428908-05 wg1930121	2.500	2.500	2.500	0.0631	0.0122	0.005	-	06/07/2024 17:46	DJR,NIC3
100	L2428908-06 wg1930121	2.500	2.500	2.500	0.0549	0.0037	0.001	-	06/07/2024 17:50	DJR,NIC3
101	L2428908-07 wg1930121	2.500	2.500	2.500	0.1332	0.0856	0.034	-	06/07/2024 17:53	DJR,NIC3
102	L2428908-08 wg1930121	2.500	2.500	2.500	0.0683	0.0177	0.007	-	06/07/2024 17:56	DJR,NIC3

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
103	wg1930768-1 wg1930768	2.500	2.500	2.500	0.1033	0.0543	0.022	-	06/07/2024 18:44	DJR,NIC3
104	wg1930768-2 wg1930768	2.500	2.500	2.500	2.4566	2.5176	1.007	-	06/07/2024 18:48	DJR,NIC3
105	L2430477-01 wg1930768	2.500	2.500	2.500	0.1104	0.0618	0.025	-	06/07/2024 18:51	DJR,NIC3
106	wg1930768-3 wg1930768	2.500	2.500	2.500	11.3040	11.7785	4.711	-	06/07/2024 18:54	DJR,NIC3
107	wg1930768-4 wg1930768	2.500	2.500	2.500	0.0902	0.0406	0.016	-	06/07/2024 18:58	DJR,NIC3
108	L2430523-03 wg1930768	2.500	2.500	2.500	0.0793	0.0292	0.012	-	06/07/2024 19:01	DJR,NIC3
109	Check STD(5ug/L)	2.500	2.500	2.500	11.5607	12.0472	4.819	96.4	06/07/2024 19:04	DJR,NIC3
110	Check Blank	2.500	2.500	2.500	0.0475	-0.0041	-0.002	-	06/07/2024 19:07	DJR,NIC3
111	wg1930682-1 wg1930682	2.500	2.500	2.500	0.1829	0.1376	0.055	-	06/07/2024 20:44	DJR,NIC3
112	wg1930682-2 wg1930682	2.500	2.500	2.500	2.4703	2.5319	1.013	-	06/07/2024 20:47	DJR,NIC3
113	I2430217-14 wg1930682	2.500	2.500	2.500	0.1927	0.1479	0.059	-	06/07/2024 20:50	DJR,NIC3
114	wg1930682-3 wg1930682	2.500	2.500	2.500	11.2872	11.7609	4.704	-	06/07/2024 20:54	DJR,NIC3
115	wg1930682-4 wg1930682	2.500	2.500	2.500	11.4441	11.9251	4.770	-	06/07/2024 20:57	DJR,NIC3
116	I2430217-01 wg1930682	2.500	2.500	2.500	0.3996	0.3645	0.146	-	06/07/2024 21:00	DJR,NIC3
117	I2430217-02 wg1930682	2.500	2.500	2.500	0.1840	0.1388	0.056	-	06/07/2024 21:04	DJR,NIC3
118	I2430217-03 wg1930682	2.500	2.500	2.500	0.1931	0.1483	0.059	-	06/07/2024 21:07	DJR,NIC3
119	I2430217-04 wg1930682	2.500	2.500	2.500	0.1928	0.1480	0.059	-	06/07/2024 21:10	DJR,NIC3
120	I2430217-05 wg1930682	2.500	2.500	2.500	0.2266	0.1834	0.073	-	06/07/2024 21:13	DJR,NIC3
121	Check STD(5ug/L)	2.500	2.500	2.500	11.5547	12.0409	4.816	96.3	06/07/2024 21:17	DJR,NIC3
122	Check Blank	2.500	2.500	2.500	0.0471	-0.0045	-0.002	-	06/07/2024 21:20	DJR,NIC3
123	I2430217-06 wg1930682	2.500	2.500	2.500	0.2280	0.1848	0.074	-	06/07/2024 21:24	DJR,NIC3
124	I2430217-07 wg1930682	2.500	2.500	2.500	0.2879	0.2475	0.099	-	06/07/2024 21:28	DJR,NIC3
125	I2430217-08 wg1930682	2.500	2.500	2.500	0.1779	0.1324	0.053	-	06/07/2024 21:31	DJR,NIC3
126	I2430217-09 wg1930682	2.500	2.500	2.500	0.1789	0.1335	0.053	-	06/07/2024 21:34	DJR,NIC3
127	I2430217-10 wg1930682	2.500	2.500	2.500	0.1925	0.1477	0.059	-	06/07/2024 21:38	DJR,NIC3
128	I2430217-11 wg1930682	2.500	2.500	2.500	0.2184	0.1748	0.070	-	06/07/2024 21:41	DJR,NIC3
129	I2430217-12 wg1930682	2.500	2.500	2.500	0.2411	0.1986	0.079	-	06/07/2024 21:44	DJR,NIC3
130	I2430217-13 wg1930682	2.500	2.500	2.500	0.2532	0.2112	0.084	-	06/07/2024 21:47	DJR,NIC3
131	I2430217-15 wg1930682	2.500	2.500	2.500	0.1764	0.1308	0.052	-	06/07/2024 21:51	DJR,NIC3
132	I2430217-16 wg1930682	2.500	2.500	2.500	0.1975	0.1529	0.061	-	06/07/2024 21:54	DJR,NIC3
133	Check STD(5ug/L)	2.500	2.500	2.500	12.2713	12.7910	5.116	102.3	06/07/2024 21:57	DJR,NIC3
134	Check Blank	2.500	2.500	2.500	0.0489	-0.0026	-0.001	-	06/07/2024 22:01	DJR,NIC3

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
135	I2430217-17 wg1930682	2.500	2.500	2.500	0.2061	0.1619	0.065	-	06/07/2024 22:07	DJR,NIC3
136	I2430217-18 wg1930682	2.500	2.500	2.500	0.2064	0.1622	0.065	-	06/07/2024 22:10	DJR,NIC3
137	wg1931080-1 wg1931080	2.500	2.500	2.500	0.0578	0.0067	0.003	-	06/07/2024 23:30	DJR,NIC3
138	wg1931080-2 wg1931080	2.500	2.500	2.500	2.4603	2.5215	1.009	-	06/07/2024 23:33	DJR,NIC3
139	wg1931080-3 wg1931080	2.500	2.500	2.500	2.4360	2.4960	0.998	-	06/07/2024 23:37	DJR,NIC3
140	I2431534-01 wg1931080	2.500	2.500	2.500	0.1930	0.1482	0.059	-	06/07/2024 23:40	DJR,NIC3
141	I2431534-02 wg1931080	2.500	2.500	2.500	0.1169	0.0686	0.027	-	06/07/2024 23:43	DJR,NIC3
142	I2431534-03 wg1931080	2.500	2.500	2.500	0.1016	0.0525	0.021	-	06/07/2024 23:47	DJR,NIC3
143	Check STD(5ug/L)	2.500	2.500	2.500	12.2401	12.7583	5.103	102.1	06/07/2024 23:50	DJR,NIC3
144	Check Blank	2.500	2.500	2.500	0.0498	-0.0017	-0.001	-	06/07/2024 23:53	DJR,NIC3
145	xCheck STD(5ug/L)	2.500	2.500	2.500	11.4946	11.9780	4.791	-	06/07/2024 23:56	DJR,NIC3
146	xCheck Blank	2.500	2.500	2.500	0.0543	0.0030	0.001	-	06/08/2024 00:00	DJR,NIC3

Title :
Date : 6/8/2024
Name :

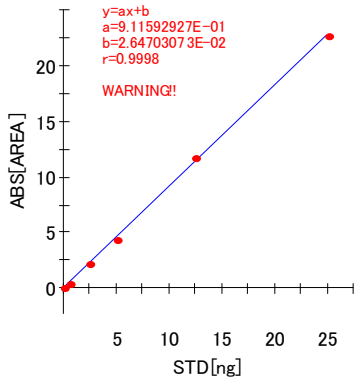
Method

STD
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

SMP
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec

Calib



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	0.0732	0.0513	-	06/08/2024 11:03	DJR,NIC1
2	0.200	2.500	2.500	2.500	0.500	0.4921	0.5108	2.2	06/08/2024 11:06	DJR,NIC1
3	1.000	2.500	2.500	2.500	2.500	2.2795	2.4715	1.1	06/08/2024 11:09	DJR,NIC1
4	2.000	2.500	2.500	2.500	5.000	4.3641	4.7583	4.8	06/08/2024 11:13	DJR,NIC1
5	5.000	2.500	2.500	2.500	12.500	11.7079	12.8143	2.5	06/08/2024 11:16	DJR,NIC1
6	10.000	2.500	2.500	2.500	25.000	22.7195	24.8938	0.4	06/08/2024 11:19	DJR,NIC1

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	ICV	2.500	2.500	2.500	6.8374	7.4715	2.989	-	06/08/2024 11:23	DJR,NIC1
2	ICB	2.500	2.500	2.500	0.0616	0.0385	0.015	-	06/08/2024 11:27	DJR,NIC1
3	0.2 PPB	2.500	2.500	2.500	0.5080	0.5282	0.211	-	06/08/2024 11:30	DJR,NIC1
4	WG1930658-1 WG1930658	2.500	2.500	2.500	0.1076	0.0890	0.036	-	06/08/2024 12:31	DJR,NIC1
5	WG1930658-2 WG1930658	2.500	2.500	2.500	2.2817	2.4739	0.990	-	06/08/2024 12:35	DJR,NIC1
6	I2430210-03 WG1930658	2.500	2.500	2.500	0.0676	0.0451	0.018	-	06/08/2024 12:38	DJR,NIC1

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	WG1930658-3 WG1930658	2.500	2.500	2.500	10.6927	11.7006	4.680	-	06/08/2024 12:41	DJR,NIC1
8	WG1930658-4 WG1930658	2.500	2.500	2.500	10.6955	11.7037	4.681	-	06/08/2024 12:45	DJR,NIC1
9	I2430219-04 WG1930658	2.500	2.500	2.500	0.0531	0.0292	0.012	-	06/08/2024 12:48	DJR,NIC1
10	WG1930658-5 WG1930658	2.500	2.500	2.500	10.4767	11.4637	4.585	-	06/08/2024 12:51	DJR,NIC1
11	WG1930658-6 WG1930658	2.500	2.500	2.500	10.8673	11.8922	4.757	-	06/08/2024 12:55	DJR,NIC1
12	I2430210-01 WG1930658	2.500	2.500	2.500	0.0818	0.0607	0.024	-	06/08/2024 12:58	DJR,NIC1
13	Check STD(5ug/L)	2.500	2.500	2.500	11.1379	12.1890	4.876	97.5	06/08/2024 13:01	DJR,NIC1
14	Check Blank	2.500	2.500	2.500	0.0599	0.0367	0.015	-	06/08/2024 13:05	DJR,NIC1
15	I2430210-02 WG1930658	2.500	2.500	2.500	0.0743	0.0525	0.021	-	06/08/2024 13:08	DJR,NIC1
16	I2430210-04 WG1930658	2.500	2.500	2.500	0.0772	0.0556	0.022	-	06/08/2024 13:11	DJR,NIC1
17	I2430210-05 WG1930658	2.500	2.500	2.500	0.0876	0.0671	0.027	-	06/08/2024 13:14	DJR,NIC1
18	I2430219-01 WG1930658	2.500	2.500	2.500	0.1376	0.1219	0.049	-	06/08/2024 13:18	DJR,NIC1
19	I2430219-02 WG1930658	2.500	2.500	2.500	0.0725	0.0505	0.020	-	06/08/2024 13:21	DJR,NIC1
20	I2430219-03 WG1930658	2.500	2.500	2.500	0.0781	0.0566	0.023	-	06/08/2024 13:24	DJR,NIC1
21	I2430219-05 WG1930658	2.500	2.500	2.500	0.0685	0.0461	0.018	-	06/08/2024 13:28	DJR,NIC1
22	I2430219-06 WG1930658	2.500	2.500	2.500	0.0730	0.0510	0.020	-	06/08/2024 13:31	DJR,NIC1
23	I2430219-07 WG1930658	2.500	2.500	2.500	0.0654	0.0427	0.017	-	06/08/2024 13:34	DJR,NIC1
24	I2430219-08 WG1930658	2.500	2.500	2.500	0.1617	0.1483	0.059	-	06/08/2024 13:38	DJR,NIC1
25	Check STD(5ug/L)	2.500	2.500	2.500	11.1614	12.2148	4.886	97.7	06/08/2024 13:41	DJR,NIC1
26	Check Blank	2.500	2.500	2.500	0.0603	0.0371	0.015	-	06/08/2024 13:44	DJR,NIC1
27	I2430219-09 WG1930658	2.500	2.500	2.500	0.1111	0.0928	0.037	-	06/08/2024 13:55	DJR,NIC1
28	I2430219-10 WG1930658	2.500	2.500	2.500	0.0692	0.0469	0.019	-	06/08/2024 13:58	DJR,NIC1
29	Check STD(5ug/L)	2.500	2.500	2.500	10.8131	11.8327	4.733	94.7	06/08/2024 14:04	DJR,NIC1
30	Check Blank	2.500	2.500	2.500	0.0620	0.0390	0.016	-	06/08/2024 14:07	DJR,NIC1
31	L2430618-11 wg1930640	2.500	2.500	2.500	0.0894	0.0690	0.028	-	06/08/2024 14:17	DJR,NIC1
32	L2430618-12 wg1930640	2.500	2.500	2.500	0.0646	0.0418	0.017	-	06/08/2024 14:20	DJR,NIC1
33	L2430618-15 wg1930640	2.500	2.500	2.500	0.0743	0.0525	0.021	-	06/08/2024 14:23	DJR,NIC1
34	L2430618-16 wg1930640	2.500	2.500	2.500	0.0854	0.0646	0.026	-	06/08/2024 14:27	DJR,NIC1
35	Check STD(5ug/L)	2.500	2.500	2.500	11.2003	12.2575	4.903	98.1	06/08/2024 14:32	DJR,NIC1
36	Check Blank	2.500	2.500	2.500	0.0590	0.0357	0.014	-	06/08/2024 14:36	DJR,NIC1
37	wg1931235-1 wg1931235	2.500	2.500	2.500	0.0649	0.0422	0.017	-	06/08/2024 15:05	DJR,NIC1
38	wg1931235-2 wg1931235	2.500	2.500	2.500	2.2116	2.3970	0.959	-	06/08/2024 15:08	DJR,NIC1

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
39	L2430572-01 wg1931235	2.500	2.500	2.500	0.0722	0.0502	0.020	-	06/08/2024 15:11	DJR,NIC1
40	wg1931235-3 wg1931235	2.500	2.500	2.500	10.6351	11.6375	4.655	-	06/08/2024 15:15	DJR,NIC1
41	wg1931235-4 wg1931235	2.500	2.500	2.500	0.0784	0.0570	0.023	-	06/08/2024 15:18	DJR,NIC1
42	L2428965-12 wg1931235	2.500	2.500	2.500	0.0843	0.0634	0.025	-	06/08/2024 15:21	DJR,NIC1
43	L2428965-15 wg1931235	2.500	2.500	2.500	0.0980	0.0785	0.031	-	06/08/2024 15:24	DJR,NIC1
44	Check STD(5ug/L)	2.500	2.500	2.500	11.4574	12.5395	5.016	100.3	06/08/2024 15:28	DJR,NIC1
45	Check Blank	2.500	2.500	2.500	0.0615	0.0384	0.015	-	06/08/2024 15:31	DJR,NIC1
46	Check STD(5ug/L)	2.500	2.500	2.500	11.0341	12.0752	4.830	96.6	06/08/2024 18:19	DJR,NIC1
47	Check Blank	2.500	2.500	2.500	0.0561	0.0325	0.013	-	06/08/2024 18:22	DJR,NIC1
48	wg1931198-1 wg1931198	2.500	2.500	2.500	0.0442	0.0194	0.008	-	06/08/2024 18:51	DJR,NIC1
49	wg1931198-2 wg1931198	2.500	2.500	2.500	2.2182	2.4043	0.962	-	06/08/2024 18:54	DJR,NIC1
50	L2430758-01 wg1931198	2.500	2.500	2.500	0.0456	0.0210	0.008	-	06/08/2024 18:57	DJR,NIC1
51	wg1931198-3 wg1931198	2.500	2.500	2.500	11.1832	12.2387	4.895	-	06/08/2024 19:00	DJR,NIC1
52	wg1931198-4 wg1931198	2.500	2.500	2.500	0.0706	0.0484	0.019	-	06/08/2024 19:04	DJR,NIC1
53	L2430758-02 wg1931198	2.500	2.500	2.500	0.0751	0.0533	0.021	-	06/08/2024 19:07	DJR,NIC1
54	wg1931198-5 wg1931198	2.500	2.500	2.500	11.2603	12.3233	4.929	-	06/08/2024 19:10	DJR,NIC1
55	wg1931198-6 wg1931198	2.500	2.500	2.500	0.0641	0.0413	0.017	-	06/08/2024 19:14	DJR,NIC1
56	Check STD(5ug/L)	2.500	2.500	2.500	11.2688	12.3326	4.933	98.7	06/08/2024 19:17	DJR,NIC1
57	Check Blank	2.500	2.500	2.500	0.0774	0.0559	0.022	-	06/08/2024 19:20	DJR,NIC1
58	L2430543-01 wg1931198	2.500	2.500	2.500	0.0569	0.0334	0.013	-	06/08/2024 19:24	DJR,NIC1
59	L2430543-02 wg1931198	2.500	2.500	2.500	0.0596	0.0363	0.015	-	06/08/2024 19:27	DJR,NIC1
60	L2430543-03 wg1931198	2.500	2.500	2.500	0.0649	0.0422	0.017	-	06/08/2024 19:30	DJR,NIC1
61	L2430543-04 wg1931198	2.500	2.500	2.500	0.0727	0.0507	0.020	-	06/08/2024 19:33	DJR,NIC1
62	L2430543-05 wg1931198	2.500	2.500	2.500	0.0638	0.0409	0.016	-	06/08/2024 19:37	DJR,NIC1
63	L2430543-06 wg1931198	2.500	2.500	2.500	0.0671	0.0446	0.018	-	06/08/2024 19:40	DJR,NIC1
64	L2430543-07 wg1931198	2.500	2.500	2.500	0.0665	0.0439	0.018	-	06/08/2024 19:43	DJR,NIC1
65	L2430543-08 wg1931198	2.500	2.500	2.500	0.0721	0.0501	0.020	-	06/08/2024 19:47	DJR,NIC1
66	L2430543-09 wg1931198	2.500	2.500	2.500	0.0640	0.0412	0.016	-	06/08/2024 19:50	DJR,NIC1
67	L2430758-03 wg1931198	2.500	2.500	2.500	0.0797	0.0584	0.023	-	06/08/2024 19:53	DJR,NIC1
68	Check STD(5ug/L)	2.500	2.500	2.500	11.3153	12.3836	4.953	99.1	06/08/2024 19:57	DJR,NIC1
69	Check Blank	2.500	2.500	2.500	0.0592	0.0359	0.014	-	06/08/2024 20:00	DJR,NIC1
70	L2430758-04 wg1931198	2.500	2.500	2.500	0.0799	0.0586	0.023	-	06/08/2024 20:03	DJR,NIC1

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
71	L2430758-05 wg1931198	2.500	2.500	2.500	0.0859	0.0652	0.026	-	06/08/2024 20:07	DJR,NIC1
72	Check STD(5ug/L)	2.500	2.500	2.500	11.3548	12.4270	4.971	99.4	06/08/2024 20:10	DJR,NIC1
73	Check Blank	2.500	2.500	2.500	0.0588	0.0355	0.014	-	06/08/2024 20:13	DJR,NIC1
74	Check STD(5ug/L)	2.500	2.500	2.500	11.2979	12.3645	4.946	98.9	06/08/2024 20:16	DJR,NIC1
75	Check Blank	2.500	2.500	2.500	0.0581	0.0347	0.014	-	06/08/2024 20:20	DJR,NIC1

MERCURY TRUE VALUE CRITERIA

ICV	3 ug/l
LCSW	1 ug/l
MS	1 ug/l
CCV	5 ug/l

As of 6/1/13, Mercury True Value criteria is as follows:

ICV	3 ug/l
LCSW	1 ug/l
MS(aq)	5 ug/l
MS(soil)	1 ug/l
CCV	10 ug/l

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck

ERA
A Waters Company

Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Quality Officer

Matthew Seebeck

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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

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Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

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ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

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▪ Certificate of Analysis ▪

1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((U_{char}^2) + (U_{homogen}^2) + (U_{LTS}^2) + (U_{STS}^2) + (U_{RSS}^2))$

Where:

$U_{expanded}$ = Expanded uncertainty.
k = Coverage factor.
U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
$U_{homogen}$ = Standard uncertainty of the homogeneity assessment.
U_{LTS} = Standard uncertainty associated with long-term stability.
U_{STS} = Standard uncertainty associated with short-term (transport) stability.
U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

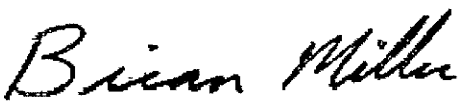
8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck

ERA
A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D113-540
Certificate Issue Date: March 23, 2021
Expiration Date: October 13, 2024
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8630	12.0	4420 - 12800	4370 - 12900
Antimony	256	129	16.8	0.742 - 257	25.6 - 323
Arsenic	91.6	84.5	15.1	70.0 - 99.0	59.2 - 110
Barium	259	249	9.94	206 - 292	187 - 311
Beryllium	175	163	3.89	135 - 191	122 - 204
Boron	95.7	76.7	12.8	55.7 - 97.7	48.0 - 107
Cadmium	107	99.0	11.5	82.2 - 116	74.2 - 124
Calcium	5190	4760	11.8	3890 - 5640	3460 - 6070
Chromium	129	122	14.6	101 - 144	85.7 - 159
Cobalt	63.6	61.7	11.5	51.9 - 71.6	46.3 - 77.2
Copper	62.3	61.5	12.3	51.9 - 71.0	46.1 - 76.8
Iron	15000	14500	15.7	8860 - 20100	5190 - 23800
Lead	122	123	13.9	103 - 144	88.3 - 158
Lithium	6.42	7.30	18.7	5.13 - 9.48	3.20 - 11.4
Magnesium	2570	2360	8.87	1810 - 2920	1480 - 3250
Manganese	470	456	13.4	375 - 538	350 - 563
Mercury	22.1	18.9	14.5	13.0 - 24.8	11.3 - 26.4
Molybdenum	80.1	72.8	11.0	58.7 - 87.0	50.5 - 95.2
Nickel	143	135	14.2	112 - 158	94.7 - 176
Potassium	2420	2090	8.21	1480 - 2700	1240 - 2940
Selenium	128	121	11.7	96.9 - 146	80.4 - 162
Silver	45.4	44.1	6.69	35.5 - 52.8	30.7 - 57.6
Sodium	161	136	9.34	97.4 - 174	48.1 - 223
Strontium	82.2	82.3	8.42	67.4 - 97.1	58.6 - 106

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	154	144	7.54	117 - 171	101 - 187
Tin	89.7	79.8	14.0	62.2 - 97.4	43.5 - 116
Titanium	705	546	10.3	123 - 969	118 - 974
Uranium	29.5	30.9	3.38	23.9 - 37.9	21.3 - 40.5
Vanadium	196	186	14.2	148 - 224	138 - 235
Zinc	307	295	10.4	240 - 351	207 - 384

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Calculation of 7470A Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, mg/L = (concentration, µg/L) x (1mg/1000µg) x (DF)

Calculation of 7471B Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, mg/L = (concentration, µg/L) x (1mg/1000µg) x (DF)

The result in mg/kg is calculated on a dry weight basis using the sample weight digested(Wt), the final volume of the digestate(FV), and the percent total solids(%TS).

Result, mg/kg, wet = ((result, mg/L) x (FV)) /Wt

Result, mg/kg, dry wt = (Result, mg/kg wet)/(%TS)

No.	Sample No.	NAME
1	1	STD
2	2	STD
3	3	STD
4	4	STD
5	5	STD
6	6	STD
1	7	ICV
2	8	ICB
3	9	0.2PPB
4	10	wg1930652-1 wg1930652
5	11	wg1930652-2 wg1930652
6	12	L2430986-05 wg1930652
7	13	wg1930652-3 wg1930652
8	14	wg1930652-4 wg1930652
9	15	L2431008-01 wg1930652
10	16	wg1930719-1 wg1930719
11	17	wg1930719-2 wg1930719
12	18	L2430219-04 wg1930719
13	19	Check STD(5ug/L)
14	20	Check Blank
15	21	wg1930719-3 wg1930719
16	22	wg1930719-4 wg1930719
17	23	L2430219-01 wg1930719
18	24	L2430219-02 wg1930719
19	25	L2430219-03 wg1930719
20	26	L2430219-05 wg1930719
21	27	L2430219-06 wg1930719
22	28	L2430219-07 wg1930719
23	29	L2430219-08 wg1930719
24	30	L2430219-09 wg1930719
25	31	Check STD(5ug/L)
26	32	Check Blank
27	33	L2430219-10 wg1930719
28	34	WG1930715-2 WG1930715
29	35	wg1930869-1 wg1930869
30	36	wg1930869-2 wg1930869
31	37	wg1930869-3 wg1930869
32	38	L2429624-01 wg1930869
33	39	L2429624-02 wg1930869
34	40	L2429624-03 wg1930869
35	41	L2429704-01 wg1930869
36	42	L2429704-02 wg1930869
37	43	Check STD(5ug/L)

38	44	Check Blank
39	45	L2429704-03 wg1930869
40	46	L2429704-04 wg1930869
41	47	Check STD(5ug/L)
42	48	Check Blank
43	49	wg1930637-1 wg1930637
44	50	wg1930637-2 wg1930637
45	51	L2430237-01 wg1930637
46	52	wg1930637-3 wg1930637
47	53	wg1930637-4 wg1930637
48	54	L2430237-02 wg1930637
49	55	Check STD(5ug/L)
50	56	Check Blank
51	57	L2430237-03 wg1930637
52	58	l2430269-01 WG1930112
53	59	l2430269-02 WG1930112
54	60	l2430269-03 WG1930112
55	61	l2430269-04 WG1930112
56	62	l2430269-05 WG1930112
57	63	l2430269-06 WG1930112
58	64	l2430269-07 WG1930112
59	65	l2430269-08 WG1930112
60	66	l2430269-09 WG1930112
61	67	Check STD(5ug/L)
62	68	Check Blank
63	69	wg1931161-1 wg1931161
64	70	wg1931161-2 wg1931161
65	71	l2430598-01 wg1931161
66	72	wg1931161-3 wg1931161
67	73	wg1931161-4 wg1931161
68	74	wg1931019-1 wg1931019
69	75	wg1931019-2 wg1931019
70	76	l2431686-01 wg1931019
71	77	wg1931019-3 wg1931019
72	78	wg1931019-4 wg1931019
73	79	Check STD(5ug/L)
74	80	Check Blank
75	1	wg1930731-1 wg1930731
76	2	wg1930731-2 wg1930731
77	3	L2430215-02 wg1930731
78	4	wg1930731-3 wg1930731
79	5	wg1930731-4 wg1930731
80	6	L2430215-01 wg1930731
81	7	L2430215-03 wg1930731

82	8	L2430215-04 wg1930731
83	9	l2430117-01 wg1928939
84	10	l2430117-02 wg1928939
85	11	Check STD(5ug/L)
86	12	Check Blank
87	13	l2430117-04 wg1928939
88	14	l2430117-05 wg1928939
89	15	Xl2430117-06 wg1928939
90	16	l2430117-06 wg1928939
91	17	Check STD(5ug/L)
92	18	Check Blank
93	19	L2428908-01 wg1930121
94	20	L2428908-02 wg1930121
95	21	L2428908-03 wg1930121
96	22	L2428908-04 wg1930121
97	23	Check STD(5ug/L)
98	24	Check Blank
99	25	L2428908-05 wg1930121
100	26	L2428908-06 wg1930121
101	27	L2428908-07 wg1930121
102	28	L2428908-08 wg1930121
103	29	wg1930768-1 wg1930768
104	30	wg1930768-2 wg1930768
105	31	L2430477-01 wg1930768
106	32	wg1930768-3 wg1930768
107	33	wg1930768-4 wg1930768
108	34	L2430523-03 wg1930768
109	35	Check STD(5ug/L)
110	36	Check Blank
111	37	wg1930682-1 wg1930682
112	38	wg1930682-2 wg1930682
113	39	l2430217-14 wg1930682
114	40	wg1930682-3 wg1930682
115	41	wg1930682-4 wg1930682
116	42	l2430217-01 wg1930682
117	43	l2430217-02 wg1930682
118	44	l2430217-03 wg1930682
119	45	l2430217-04 wg1930682
120	46	l2430217-05 wg1930682
121	47	Check STD(5ug/L)
122	48	Check Blank
123	49	l2430217-06 wg1930682
124	50	l2430217-07 wg1930682
125	51	l2430217-08 wg1930682

126	52	l2430217-09 wg1930682
127	53	l2430217-10 wg1930682
128	54	l2430217-11 wg1930682
129	55	l2430217-12 wg1930682
130	56	l2430217-13 wg1930682
131	57	l2430217-15 wg1930682
132	58	l2430217-16 wg1930682
133	59	Check STD(5ug/L)
134	60	Check Blank
135	61	l2430217-17 wg1930682
136	62	l2430217-18 wg1930682
137	63	wg1931080-1 wg1931080
138	64	wg1931080-2 wg1931080
139	65	wg1931080-3 wg1931080
140	66	l2431534-01 wg1931080
141	67	l2431534-02 wg1931080
142	68	l2431534-03 wg1931080
143	69	Check STD(5ug/L)
144	70	Check Blank
145	71	xCheck STD(5ug/L)
146	72	xCheck Blank

No.	Sample No.	NAME
1	1	STD
2	2	STD
3	3	STD
4	4	STD
5	5	STD
6	6	STD
1	7	ICV
2	8	ICB
3	9	0.2 PPB
4	10	WG1930658-1 WG1930658
5	11	WG1930658-2 WG1930658
6	12	l2430210-03 WG1930658
7	13	WG1930658-3 WG1930658
8	14	WG1930658-4 WG1930658
9	15	l2430219-04 WG1930658
10	16	WG1930658-5 WG1930658
11	17	WG1930658-6 WG1930658
12	18	l2430210-01 WG1930658
13	19	Check STD(5ug/L)
14	20	Check Blank
15	21	l2430210-02 WG1930658
16	22	l2430210-04 WG1930658
17	23	l2430210-05 WG1930658
18	24	l2430219-01 WG1930658
19	25	l2430219-02 WG1930658
20	26	l2430219-03 WG1930658
21	27	l2430219-05 WG1930658
22	28	l2430219-06 WG1930658
23	29	l2430219-07 WG1930658
24	30	l2430219-08 WG1930658
25	31	Check STD(5ug/L)
26	32	Check Blank
27	33	l2430219-09 WG1930658
28	34	l2430219-10 WG1930658
29	35	Check STD(5ug/L)
30	36	Check Blank
31	37	L2430618-11 wg1930640
32	38	L2430618-12 wg1930640
33	39	L2430618-15 wg1930640
34	40	L2430618-16 wg1930640
35	43	Check STD(5ug/L)
36	44	Check Blank
37	45	wg1931235-1 wg1931235

38	46	wg1931235-2 wg1931235
39	47	L2430572-01 wg1931235
40	48	wg1931235-3 wg1931235
41	49	wg1931235-4 wg1931235
42	50	L2428965-12 wg1931235
43	51	L2428965-15 wg1931235
44	55	Check STD(5ug/L)
45	56	Check Blank

METALS ELN REPORT

Workgroup: WG1930658

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 7470A	HNO3	24006780	H2SO4	24009418	METALS	METSPIKE	HG24223111 23CMEV1	METSPIKE	HG24223111320, 344 23CMEV1	

Additional Reagent/Std	K2O8S2	PS2422300420CLH
	KMnO4	PP2423042255HCR
	NaCl-NH2OH.HCl	HH2423041848CEY
		ICV2422291135EFM

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol ml	Spike Amt	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2430210-01 SAMP	06/06/24 16:15	Heidy Rompich	NA	25		06/06/24 16:15	5	95.0	06/06/24 18:15	25	A
L2430210-02 SAMP	06/06/24 16:15	Heidy Rompich	NA	25		06/06/24 16:15	5	95.0	06/06/24 18:15	25	A
L2430210-03 SAMP	06/06/24 16:15	Heidy Rompich	NA	25		06/06/24 16:15	5	95.0	06/06/24 18:15	25	A
L2430210-04 SAMP	06/06/24 16:15	Heidy Rompich	NA	25		06/06/24 16:15	5	95.0	06/06/24 18:15	25	A
L2430210-05 SAMP	06/06/24 16:15	Heidy Rompich	NA	25		06/06/24 16:15	5	95.0	06/06/24 18:15	25	A
L2430219-01 SAMP	06/06/24 16:15	Heidy Rompich	NA	25		06/06/24 16:15	5	95.0	06/06/24 18:15	25	H
L2430219-02 SAMP	06/06/24 16:15	Heidy Rompich	NA	25		06/06/24 16:15	5	95.0	06/06/24 18:15	25	H
L2430219-03 SAMP	06/06/24 16:15	Heidy Rompich	NA	25		06/06/24 16:15	5	95.0	06/06/24 18:15	25	H
L2430219-04 SAMP	06/06/24 16:15	Heidy Rompich	NA	25		06/06/24 16:15	5	95.0	06/06/24 18:15	25	H
L2430219-05 SAMP	06/06/24 16:15	Heidy Rompich	NA	25		06/06/24 16:15	5	95.0	06/06/24 18:15	25	H
L2430219-06 SAMP	06/06/24 16:15	Heidy Rompich	NA	25		06/06/24 16:15	5	95.0	06/06/24 18:15	25	H
L2430219-07 SAMP	06/06/24 16:15	Heidy Rompich	NA	25		06/06/24 16:15	5	95.0	06/06/24 18:15	25	H

METALS ELN REPORT

Workgroup: WG1930658

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol ml	Spike Amt	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2430219-08 SAMP	06/06/24 16:15	Heidy Rompich	NA	25		06/06/24 16:15	5	95.0	06/06/24 18:15	25	H
L2430219-09 SAMP	06/06/24 16:15	Heidy Rompich	NA	25		06/06/24 16:15	5	95.0	06/06/24 18:15	25	H
L2430219-10 SAMP	06/06/24 16:15	Heidy Rompich	NA	25		06/06/24 16:15	5	95.0	06/06/24 18:15	25	H
WG1930658-1 BLANK	06/06/24 16:15	Heidy Rompich	NA	25		06/06/24 16:15	5	95.0	06/06/24 18:15	25	eln:CME
WG1930658-2 LCS	06/06/24 16:15	Heidy Rompich	NA	25	0.25	06/06/24 16:15	5	95.0	06/06/24 18:15	25	
WG1930658-3 MS	06/06/24 16:15	Heidy Rompich	NA	25	1.25	06/06/24 16:15	5	95.0	06/06/24 18:15	25	A
WG1930658-4 MSD	06/06/24 16:15	Heidy Rompich	NA	25	1.25	06/06/24 16:15	5	95.0	06/06/24 18:15	25	A
WG1930658-5 MS	06/06/24 16:15	Heidy Rompich	NA	25	1.25	06/06/24 16:15	5	95.0	06/06/24 18:15	25	H
WG1930658-6 MSD	06/06/24 16:15	Heidy Rompich	NA	25	1.25	06/06/24 16:15	5	95.0	06/06/24 18:15	25	H

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganat	3.75	ml
Potassium Persulfate (K	2	ml
NaCl-Hydroxylamine Hy	1.5	ml

Reported: 12-JUN-24 01:20 PM

METALS ELN REPORT

Workgroup: WG1930719

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 7470A	HNO3	24006780	H2SO4	24009418	METALS	METSPIKE	HG24223111 23CMEV1	METSPIKE	HG24223111320, 344 23CMEV1	

Additional Reagent/Std	K2O8S2	PS2422300420CLH
	KMnO4	PP2423052008HCR
	NaCl-NH2OH.HCl	HH2423041848CEY
		ICV2422291135EFM

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2430219-01 SAMP	06/06/24 20:39	Christine Hamor	25		06/06/24 20:39	8	95.8	06/06/24 22:39	25	
L2430219-02 SAMP	06/06/24 20:39	Christine Hamor	25		06/06/24 20:39	8	95.8	06/06/24 22:39	25	
L2430219-03 SAMP	06/06/24 20:39	Christine Hamor	25		06/06/24 20:39	8	95.8	06/06/24 22:39	25	
L2430219-04 SAMP	06/06/24 20:39	Christine Hamor	25		06/06/24 20:39	8	95.8	06/06/24 22:39	25	
L2430219-05 SAMP	06/06/24 20:39	Christine Hamor	25		06/06/24 20:39	8	95.8	06/06/24 22:39	25	
L2430219-06 SAMP	06/06/24 20:39	Christine Hamor	25		06/06/24 20:39	8	95.8	06/06/24 22:39	25	
L2430219-07 SAMP	06/06/24 20:39	Christine Hamor	25		06/06/24 20:39	8	95.8	06/06/24 22:39	25	
L2430219-08 SAMP	06/06/24 20:39	Christine Hamor	25		06/06/24 20:39	8	95.8	06/06/24 22:39	25	
L2430219-09 SAMP	06/06/24 20:39	Christine Hamor	25		06/06/24 20:39	8	95.8	06/06/24 22:39	25	
L2430219-10 SAMP	06/06/24 20:39	Christine Hamor	25		06/06/24 20:39	8	95.8	06/06/24 22:39	25	
WG1930719-1 BLANK	06/06/24 20:39	Christine Hamor	25		06/06/24 20:39	8	95.8	06/06/24 22:39	25	ELN check: HCR

METALS ELN REPORT

Workgroup: WG1930719

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
WG1930719-2 LCS	06/06/24 20:39	Christine Hamor	25	.25	06/06/24 20:39	8	95.8	06/06/24 22:39	25	
WG1930719-3 MS	06/06/24 20:39	Christine Hamor	25	1.25	06/06/24 20:39	8	95.8	06/06/24 22:39	25	
WG1930719-4 MSD	06/06/24 20:39	Christine Hamor	25	1.25	06/06/24 20:39	8	95.8	06/06/24 22:39	25	

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganat	3.75	ml
Potassium Persulfate (K	2	ml
NaCl-Hydroxylamine Hy	1.5	ml

Reported: 12-JUN-24 01:20 PM

Wet Chemistry

Total Nitrogen Analysis

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 10:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: JRO
Lab File ID	: WG1932041.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	2.0	0.30	0.30	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 10:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: JRO
Lab File ID	: WG1932041.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	1.3	0.30	0.30	

Form 1
WETCHEM

Client	:	**Alpha Geoscience**	**Lab Number**	:	**L2430219**
Project Name	:	**HUNTINGTON READY MIXED**	**Project Number**	:	**20116**
Lab ID	:	**L2430219-03**	**Date Collected**	:	**05/30/24 10:07**
Client ID	:	**MW-3S**	**Date Received**	:	**05/31/24**
Sample Location	:	**SPEONK, NY**	**Date Analyzed**	:	**06/10/24 10:48**
Sample Matrix	:	**WATER**	**Dilution Factor**	:	**2**
Analytical Method	:	**107,-**	**Analyst**	:	**JRO**
Lab File ID	:	**WG1932041.csv**	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	**N/A**
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Total Nitrogen**	**6.2**	**0.60**	**0.60**	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 10:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: JRO
Lab File ID	: WG1932041.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	0.56	0.30	0.30	

Form 1
WETCHEM

Client	:	**Alpha Geoscience**	**Lab Number**	:	**L2430219**
Project Name	:	**HUNTINGTON READY MIXED**	**Project Number**	:	**20116**
Lab ID	:	**L2430219-05**	**Date Collected**	:	**05/30/24 14:28**
Client ID	:	**MW-5S**	**Date Received**	:	**05/31/24**
Sample Location	:	**SPEONK, NY**	**Date Analyzed**	:	**06/10/24 10:48**
Sample Matrix	:	**WATER**	**Dilution Factor**	:	**1**
Analytical Method	:	**107,-**	**Analyst**	:	**JRO**
Lab File ID	:	**WG1932041.csv**	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	**N/A**
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Total Nitrogen**	**1.5**	**0.30**	**0.30**	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 10:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: JRO
Lab File ID	: WG1932041.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	3.0	0.30	0.30	

Form 1
WETCHEM

Client	:	**Alpha Geoscience**	**Lab Number**	:	**L2430219**
Project Name	:	**HUNTINGTON READY MIXED**	**Project Number**	:	**20116**
Lab ID	:	**L2430219-07**	**Date Collected**	:	**05/30/24 11:00**
Client ID	:	**MW-7S**	**Date Received**	:	**05/31/24**
Sample Location	:	**SPEONK, NY**	**Date Analyzed**	:	**06/10/24 10:48**
Sample Matrix	:	**WATER**	**Dilution Factor**	:	**1**
Analytical Method	:	**107,-**	**Analyst**	:	**JRO**
Lab File ID	:	**WG1932041.csv**	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	**N/A**
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Total Nitrogen**	**4.7**	**0.30**	**0.30**	

Form 1
WETCHEM

Client	:	**Alpha Geoscience**	**Lab Number**	:	**L2430219**
Project Name	:	**HUNTINGTON READY MIXED**	**Project Number**	:	**20116**
Lab ID	:	**L2430219-08**	**Date Collected**	:	**05/30/24 16:10**
Client ID	:	**MW-8S**	**Date Received**	:	**05/31/24**
Sample Location	:	**SPEONK, NY**	**Date Analyzed**	:	**06/10/24 10:48**
Sample Matrix	:	**WATER**	**Dilution Factor**	:	**1**
Analytical Method	:	**107,-**	**Analyst**	:	**JRO**
Lab File ID	:	**WG1932041.csv**	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	**N/A**
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Total Nitrogen**	**1.0**	**0.30**	**0.30**	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/10/24 10:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: JRO
Lab File ID	: WG1932041.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	0.97	0.30	0.30	

Sample Raw Data

ALPHA ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

TOTAL NITROGEN

Last Change 3/5/13 GFF
File tnitrogen.xlt

Sample #: _____

Client: _____

Analysis: **Total Nitrogen**

Method: ***Calculation from TKN & NO3/NO2***

Product: **TNITROGEN**
Analyte: **Total Nitrogen,**
Analysis Date: 6/10/2024 10:48
Technician: JRO
Work group: WG1932041
RL: **0.3 mg/L**

	Sample Number	TKN (mg/L)	NO3/NO2 (mg/L)	RL Multiplier	Result (mg/L)
SAMP	L2430219-01	1.6	0.43	1.0	2.03
SAMP	L2430219-02	0.27	1.3	1.0	1.3
SAMP	L2430219-03	0.659	5.6	2.0	6.259
SAMP	L2430219-04	0.129	0.56	1.0	0.56
SAMP	L2430219-05	0.105	1.5	1.0	1.5
SAMP	L2430219-06	2.37	0.67	1.0	3.04
SAMP	L2430219-07	0.674	4	1.0	4.674
SAMP	L2430219-08	0.428	0.6	1.0	1.028
SAMP	L2430219-09	0.368	0.6	1.0	0.968
SAMP	L2430471-01	1.33	1.3	1.0	2.63
SAMP	L2430472-01	1.05	1.4	1.0	2.45
SAMP	L2430488-02	0.948	1.7	1.0	2.648
SAMP	L2430494-01	0.303	0.099	1.0	0.303
SAMP	L2430504-02	3.96	0.71	1.0	4.67
SAMP	L2430589-01	0.249	0	1.0	0
SAMP	L2430741-01	0.443	0.42	1.0	0.863
SAMP	L2430741-02	0.167	0.34	1.0	0.34
SAMP	L2431693-01	4.11	0.47	1.0	4.58
SAMP	L2431693-02	1.38	0.55	2.0	1.93

Calculations of Total Nitrogen

Calculate the concentration value based on results for TKN-N and N03/NO2-N.

Aqueous samples:

mgTN-N/L = TKN-N(mg/l) + NO3/NO2-N (mg/l)

Soil samples:

mgTN-N/Kg = TKN-N(mg/Kg) + NO3/NO2-N(mg/Kg)

Total Kjeldahl Nitrogen Analysis

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/09/24 12:39
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320240609-B	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/07/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	1.60	0.300	0.066	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/09/24 12:43
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320240609-B	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/07/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.270	0.300	0.066	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/09/24 12:44
Sample Matrix	: WATER	**Dilution Factor**	: 2
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320240609-B	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/07/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.659	0.600	0.132	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/09/24 12:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320240609-B	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/07/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.129	0.300	0.066	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/09/24 12:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320240609-B	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/07/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.105	0.300	0.066	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/09/24 12:49
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320240609-B	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/07/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	2.37	0.300	0.066	

Form 1
WETCHEM

Client	:	Alpha Geoscience	**Lab Number**	:	L2430219
Project Name	:	HUNTINGTON READY MIXED	**Project Number**	:	20116
Lab ID	:	L2430219-07	**Date Collected**	:	05/30/24 11:00
Client ID	:	MW-7S	**Date Received**	:	05/31/24
Sample Location	:	SPEONK, NY	**Date Analyzed**	:	06/09/24 12:50
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NH3-H	**Analyst**	:	AT
Lab File ID	:	NH320240609-B	**Instrument ID**	:	LACHAT
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	06/07/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.674	0.300	0.066	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/09/24 12:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320240609-B	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/07/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.428	0.300	0.066	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/09/24 12:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320240609-B	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/07/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.368	0.300	0.066	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1931426-1	**Date Collected**	: NA
Client ID	: WG1931426-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/09/24 12:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320240609-B	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/07/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.022	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1931426-3	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4DDUP	**Date Received**	: 05/31/24
Sample Location	:	**Date Analyzed**	: 06/09/24 12:47
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320240609-B	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/07/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.530	0.300	0.066	

Sample Raw Data

Author: A1WETCHEMINSTRUMENT Date : 6/9/2024

Original Run Filename: OM_6-9-2024_11-14-56AM.OMN Created: 6/9/2024 11:14:56 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-9-2024_11-14-56AM.OMN Last Modified: 6/9/2024 11:53:34 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

A

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
STD 1	1	S1	10.00000			
STD 2	1	S2	8.00000			
STD 3	1	S3	4.00000			
STD 4	1	S4	2.00000			
STD 5	1	S5	1.00000			
STD 6	1	S6	0.40000			
STD 7	1	S7	0.20000			
STD 8	1	S8	0.10000			
STD 9	1	S9	0.05000			
STD 10	1	S10	0.00000			
CCV 0.4000	1	S6	0.38457	96%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1	93%		
CCV 4.0000	1	S3	3.70380			
	Known Conc:		100.00000			
CCB	1	S10	0.01534			
	Known Conc:		100.00000			
HI ICV 8.0	1	1	7.77799	97%		
LO ICV 1.0	1	2	0.95317	95%		
ICB	1	3	0.01365			
WG1931425-1 T; BLK 6/7	1	4	0.02567			86%
WG1931425-2 T; HI LCS; 5X	1	5	34.35214		15.00	
LO LCS T	1	6	3.88084		3.00	97%
L2430251-01 T	1	7	0.62136		3.00	
L2430251-02 T	1	8	0.69857		3.00	
L2430251-03 T	1	9	0.57236		3.00	
L2430251-04 T	1	10	0.44652		3.00	
CCV 0.4000	1	S6	0.38542	96%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.70079	93%		
	Known Conc:		100.00000			
CCB	1	S10	0.03045			
	Known Conc:		100.00000			
L2430251-05 T	1	11	0.46070		3.00	
WG1931425-4 T; 30251.5 MS	1	12	8.08170		3.00	95%
WG1931425-3 T; 30251.5 DUP	1	13	0.77330		3.00	51% (RT+RL)
L2430251-06 T	1	14	0.45176		3.00	
L2430251-07 T	1	15	0.43035		3.00	
L2430276-01 T	1	16	0.96450		30.00	
L2430556-01 T	1	17	0.07051		3.00	
L2430488-02 T	1	18	0.94812		3.00	
L2430494-01 T	1	19	0.30308		3.00	
L2430504-02 T	1	20	3.95698		3.00	
CCV 0.4000	1	S6	0.43954	110%		
	Known Conc:		~~100.00000~~			
CCV 4.0000	1	S3	~~3.52049~~	88%		
	Known Conc:		100.00000			

tube leaking - changed all tubing -

reinject. OK

Author: A1WETCHEMINSTRUMENT

Date : 6/9/2024

Channel 2 (Ammonia High) - Current View

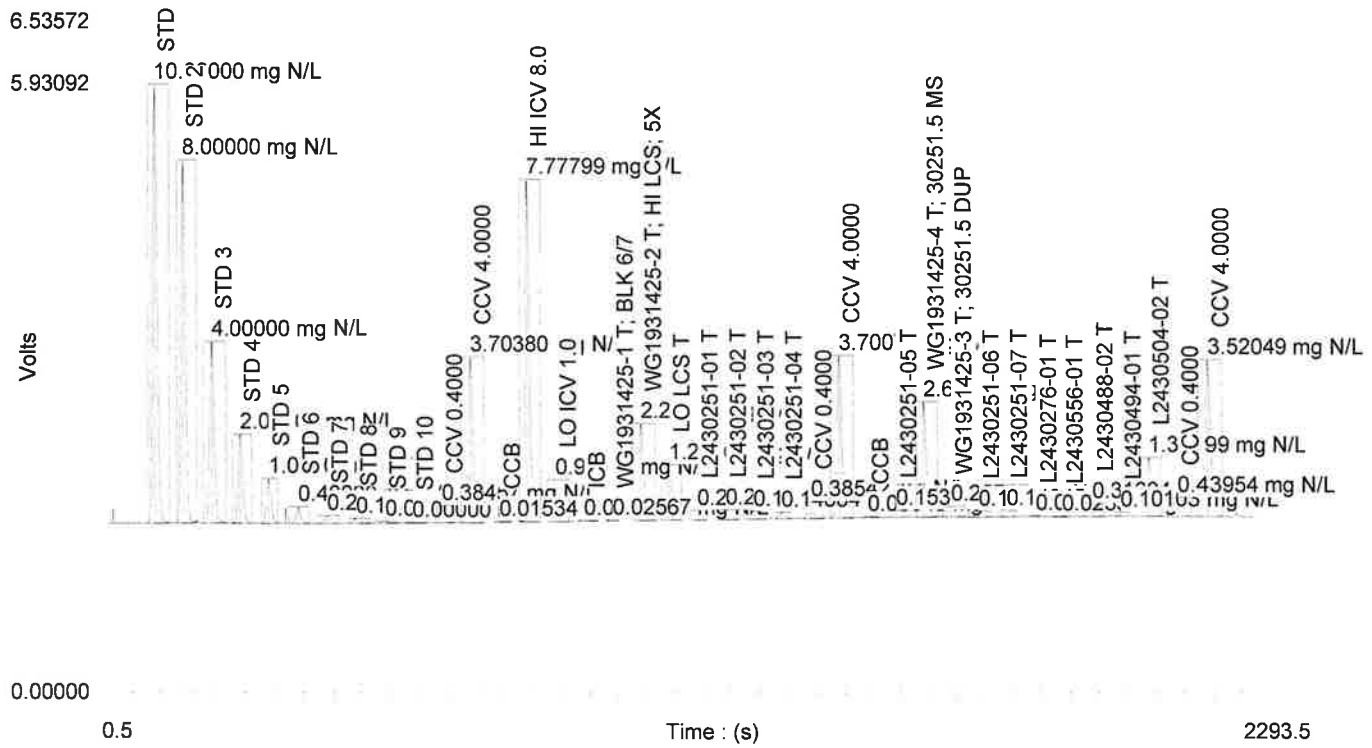
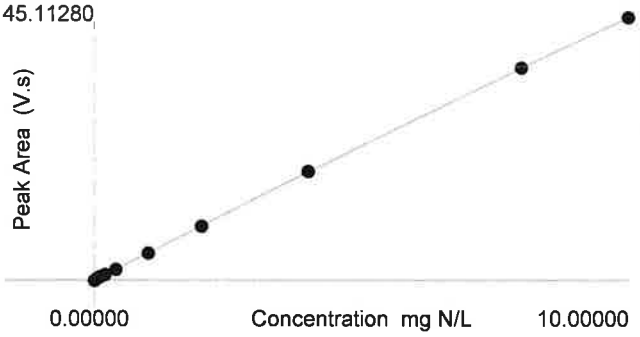


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	45.11280	4.26833	0.0	0.1	9.99859	6/9/2024	11:15:57 AM
2	8.00000	1	36.48932	3.52901	0.0	-0.1	8.00718	6/9/2024	11:16:54 AM
3	4.00000	1	18.65756	1.76566	0.0	-0.4	4.00963	6/9/2024	11:17:51 AM
4	2.00000	1	9.26766	0.87012	0.0	1.2	1.96978	6/9/2024	11:18:48 AM
5	1.00000	1	4.63592	0.44231	0.0	1.6	0.98014	6/9/2024	11:19:46 AM
6	0.40000	1	1.83388	0.16851	0.0	2.9	0.38676	6/9/2024	11:20:44 AM
7	0.20000	1	0.95652	0.08192	0.0	-1.2	0.20179	6/9/2024	11:21:42 AM
8	0.10000	1	0.56759	0.04797	0.0	-20.0	0.11991	6/9/2024	11:22:41 AM
9	0.05000	1	0.28945	0.02070	0.0	-22.5	0.06141	6/9/2024	11:23:38 AM
10	0.00000	1	-0.09110	-0.00354			-0.01857	6/9/2024	11:24:35 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

Date : 6/9/2024

Original Run Filename: OM_6-9-2024_12-14-28PM.OMN Created: 6/9/2024 12:14:28 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-9-2024_12-14-28PM.OMN Last Modified: 6/9/2024 12:25:42 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

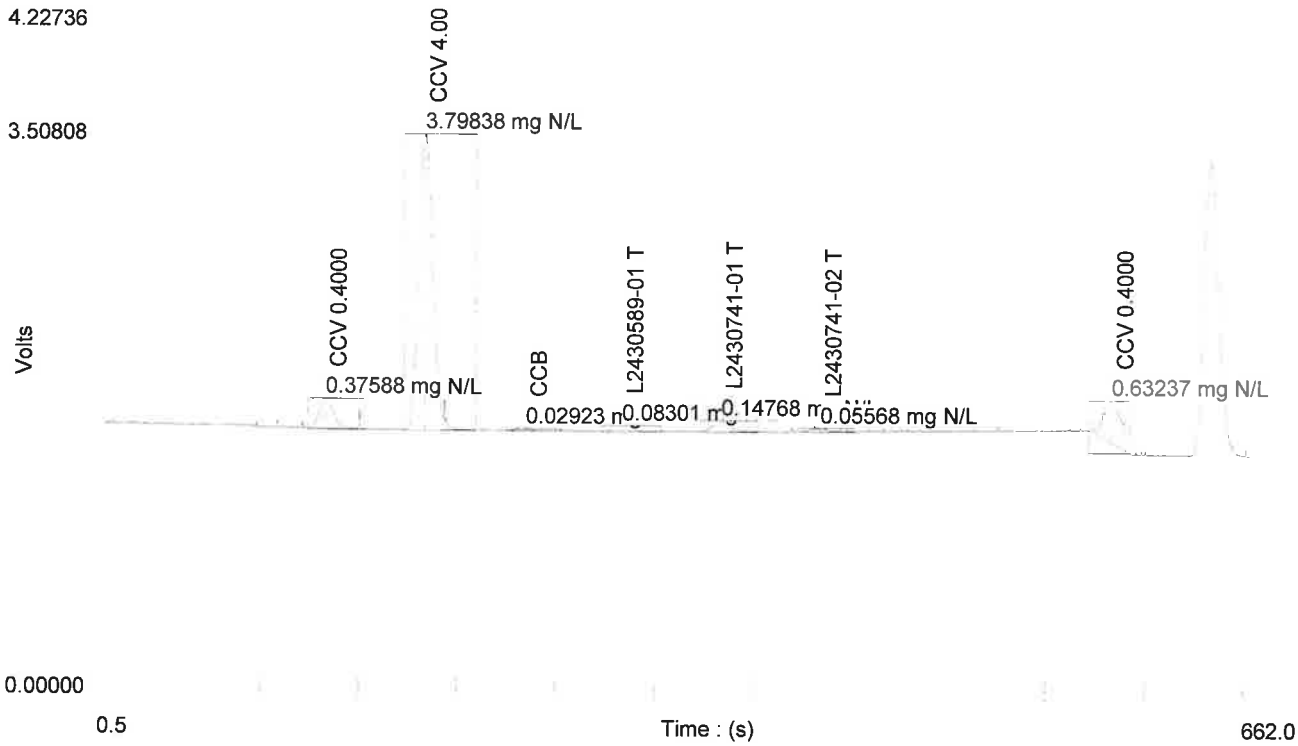
A2

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.37588			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.79838			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.02923			
	Known Conc:		100.00000			
L2430589-01 T	1	21	0.24902		3.00	
L2430741-01 T	1	22	0.44303		3.00	
L2430741-02 T	1	23	0.16704		3.00	
CCV 0.4000	1	S6	0.63237			
	Known Conc:		100.00000			

Baseline shifted!

reinject - OK

Channel 2 (Ammonia High) - Current View

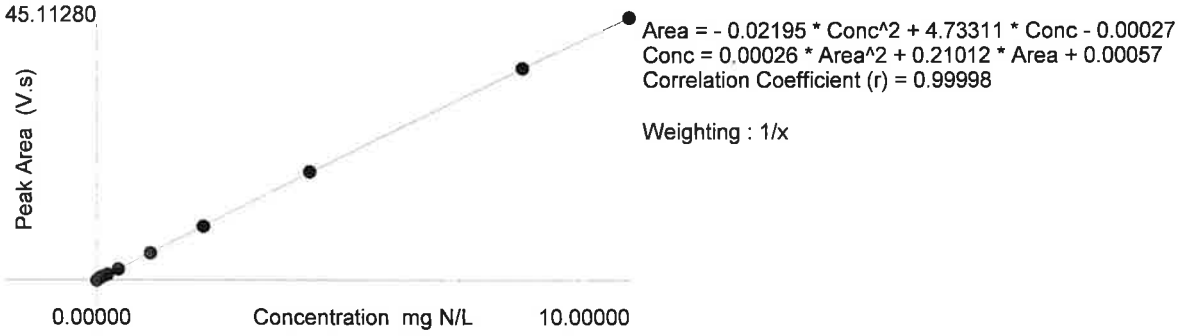


Author: A1WETCHEMINSTRUMENT Date : 6/9/2024

Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	45.11280	4.26833	0.0	0.1	9.99859	6/9/2024	11:15:57 AM
2	8.00000	1	36.48932	3.52901	0.0	-0.1	8.00718	6/9/2024	11:16:54 AM
3	4.00000	1	18.65756	1.76566	0.0	-0.4	4.00963	6/9/2024	11:17:51 AM
4	2.00000	1	9.26766	0.87012	0.0	1.2	1.96978	6/9/2024	11:18:48 AM
5	1.00000	1	4.63592	0.44231	0.0	1.6	0.98014	6/9/2024	11:19:46 AM
6	0.40000	1	1.83388	0.16851	0.0	2.9	0.38676	6/9/2024	11:20:44 AM
7	0.20000	1	0.95652	0.08192	0.0	-1.2	0.20179	6/9/2024	11:21:42 AM
8	0.10000	1	0.56759	0.04797	0.0	-20.0	0.11991	6/9/2024	11:22:41 AM
9	0.05000	1	0.28945	0.02070	0.0	-22.5	0.06141	6/9/2024	11:23:38 AM
10	0.00000	1	-0.09110	-0.00354			-0.01857	6/9/2024	11:24:35 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

Date : 6/9/2024

Original Run Filename: OM_6-9-2024_12-27-30PM.OMN Created: 6/9/2024 12:27:30 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-9-2024_12-27-30PM.OMN Last Modified: 6/9/2024 12:58:52 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

B

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.38910	97%		
	Known Conc:		100.00000	96%		
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	3.84337			
	Known Conc:		100.00000			
CCB	1	S10	0.03569			
	Known Conc:		100.00000			
WG1931426-1 T; BLK 6/7	1	1	0.02158			91%
WG1931426-2 T; HI LCS; 5X	1	2	36.20925		15.00	105%
LO LCS T	1	3	4.19277		3.00	
L2431693-01 T	1	4	4.10934		3.00	
L2431693-02 T	1	5	1.38056		6.00	
L2430471-01 T	1	6	1.33094		3.00	
L2430472-01 T	1	7	1.04937		3.00	
L2430227-01 T	1	8	41.89176		15.00	
L2430227-02 T	1	9	11.26690		15.00	
L2430219-01 T	1	10	1.59958		3.00	
CCV 0.4000	1	S6	0.43023	108%		
	Known Conc:		100.00000	98%		
CCV 4.0000	1	S3	3.92273			
	Known Conc:		100.00000			
CCB	1	S10	0.04566			
	Known Conc:		100.00000			
L2430219-02 T	1	11	0.26989		3.00	
L2430219-03 T	1	12	0.65923		6.00	
L2430219-04 T	1	13	0.12905		3.00	104%
WG1931426-4 T; 30219.4 MS	1	14	8.28443		3.00	NC(<5+RL)
WG1931426-3 T; 30219.4 DUP	1	15	0.52968		3.00	
L2430219-05 T	1	16	0.10543		3.00	
L2430219-06 T	1	17	2.37238		3.00	
L2430219-07 T	1	18	0.67446		3.00	
L2430219-08 T	1	19	0.42790		3.00	
L2430219-09 T	1	20	0.36794	98%	3.00	
CCV 0.4000	1	S6	0.39097			
	Known Conc:		100.00000	98%		
CCV 4.0000	1	S3	3.90509			
	Known Conc:		100.00000			
CCB	1	S10	0.03103			
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 6/9/2024

Channel 2 (Ammonia High) - Current View

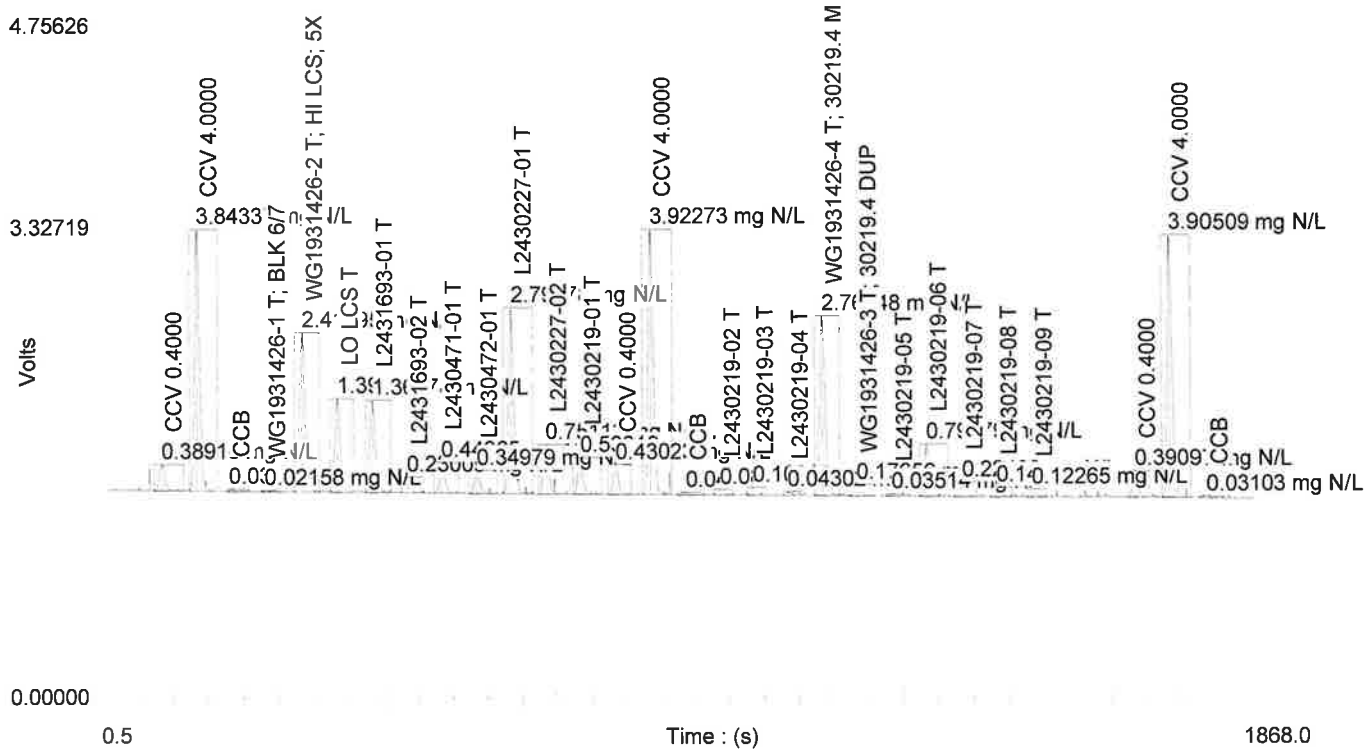
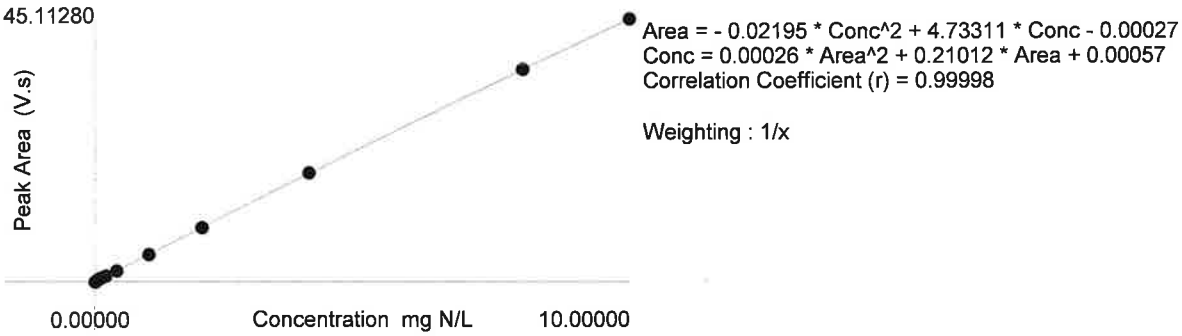


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	45.11280	4.26833	0.0	0.1	9.99859	6/9/2024	11:15:57 AM
2	8.00000	1	36.48932	3.52901	0.0	-0.1	8.00718	6/9/2024	11:16:54 AM
3	4.00000	1	18.65756	1.76566	0.0	-0.4	4.00963	6/9/2024	11:17:51 AM
4	2.00000	1	9.26766	0.87012	0.0	1.2	1.96978	6/9/2024	11:18:48 AM
5	1.00000	1	4.63592	0.44231	0.0	1.6	0.98014	6/9/2024	11:19:46 AM
6	0.40000	1	1.83388	0.16851	0.0	2.9	0.38676	6/9/2024	11:20:44 AM
7	0.20000	1	0.95652	0.08192	0.0	-1.2	0.20179	6/9/2024	11:21:42 AM
8	0.10000	1	0.56759	0.04797	0.0	-20.0	0.11991	6/9/2024	11:22:41 AM
9	0.05000	1	0.28945	0.02070	0.0	-22.5	0.06141	6/9/2024	11:23:38 AM
10	0.00000	1	-0.09110	-0.00354			-0.01857	6/9/2024	11:24:35 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

Date : 6/9/2024

Original Run Filename: OM_6-9-2024_01-06-11PM.OMN Created: 6/9/2024 1:06:11 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-9-2024_01-06-11PM.OMN Last Modified: 6/9/2024 1:22:11 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

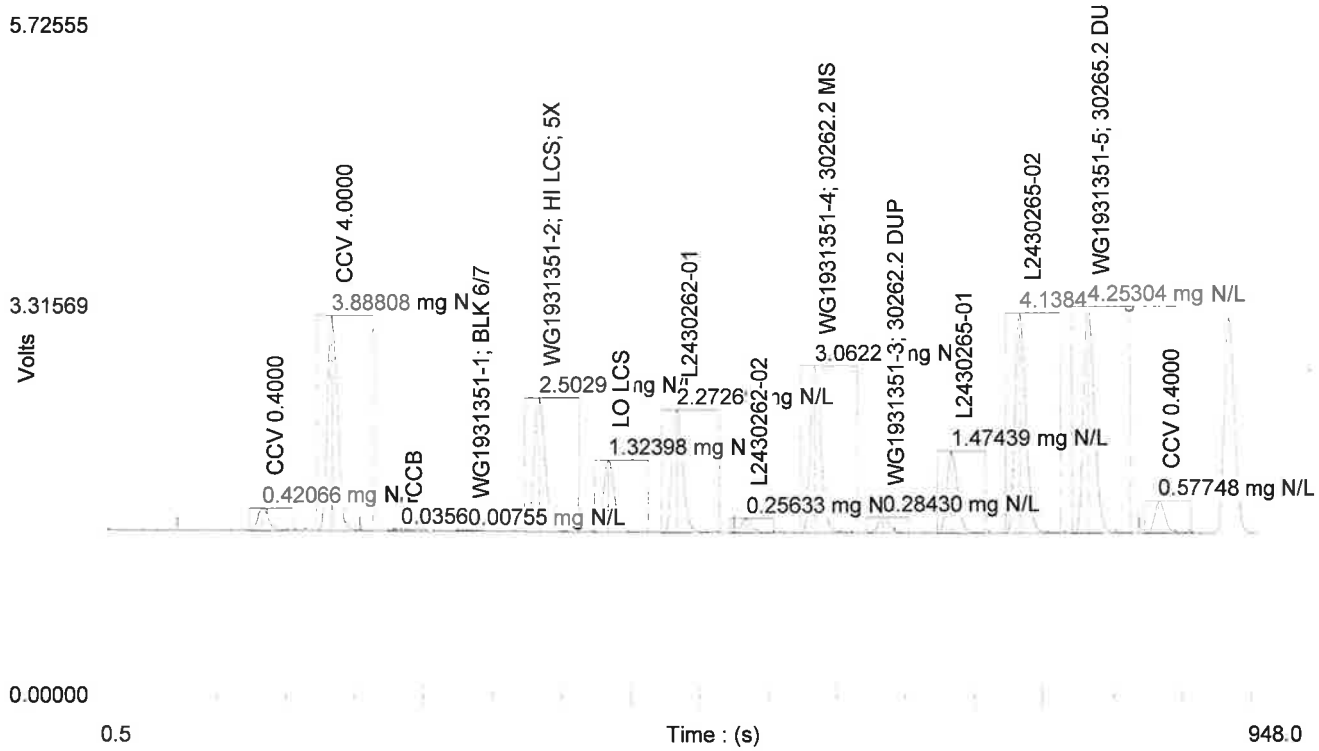
C

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.42066			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.88808			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.03563			
	Known Conc:		100.00000			
WG1931351-1; BLK 6/7	1	1	0.01132		1.50	
WG1931351-2; HI LCS; 5X	1	2	18.77181		7.50	
LO LCS	1	3	1.98597		1.50	
L2430262-01	1	4	17.04518		7.50	
L2430262-02	1	5	0.38449		1.50	
WG1931351-4; 30262.2 MS	1	6	4.59337		1.50	
WG1931351-3; 30262.2 DUP	1	7	0.42645		1.50	
L2430265-01	1	8	4.42318		3.00	
L2430265-02	1	9	6.20765		1.50	
WG1931351-5; 30265.2 DUP	1	10	6.37956		1.50	
CCV 0.4000	1	S6	0.57748			
	Known Conc:		100.00000			

105%
97%
94%
100%
105%
107%
3%

reinject - OK

Channel 2 (Ammonia High) - Current View

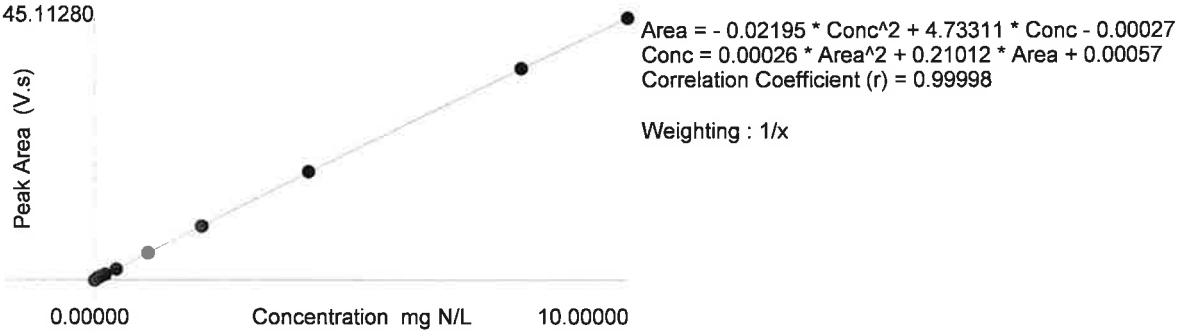


Author: A1WETCHEMINSTRUMENT Date : 6/9/2024

Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	45.11280	4.26833	0.0	0.1	9.99859	6/9/2024	11:15:57 AM
2	8.00000	1	36.48932	3.52901	0.0	-0.1	8.00718	6/9/2024	11:16:54 AM
3	4.00000	1	18.65756	1.76566	0.0	-0.4	4.00963	6/9/2024	11:17:51 AM
4	2.00000	1	9.26766	0.87012	0.0	1.2	1.96978	6/9/2024	11:18:48 AM
5	1.00000	1	4.63592	0.44231	0.0	1.6	0.98014	6/9/2024	11:19:46 AM
6	0.40000	1	1.83388	0.16851	0.0	2.9	0.38676	6/9/2024	11:20:44 AM
7	0.20000	1	0.95652	0.08192	0.0	-1.2	0.20179	6/9/2024	11:21:42 AM
8	0.10000	1	0.56759	0.04797	0.0	-20.0	0.11991	6/9/2024	11:22:41 AM
9	0.05000	1	0.28945	0.02070	0.0	-22.5	0.06141	6/9/2024	11:23:38 AM
10	0.00000	1	-0.09110	-0.00354			-0.01857	6/9/2024	11:24:35 AM

Figure : 1 (Ammonia)



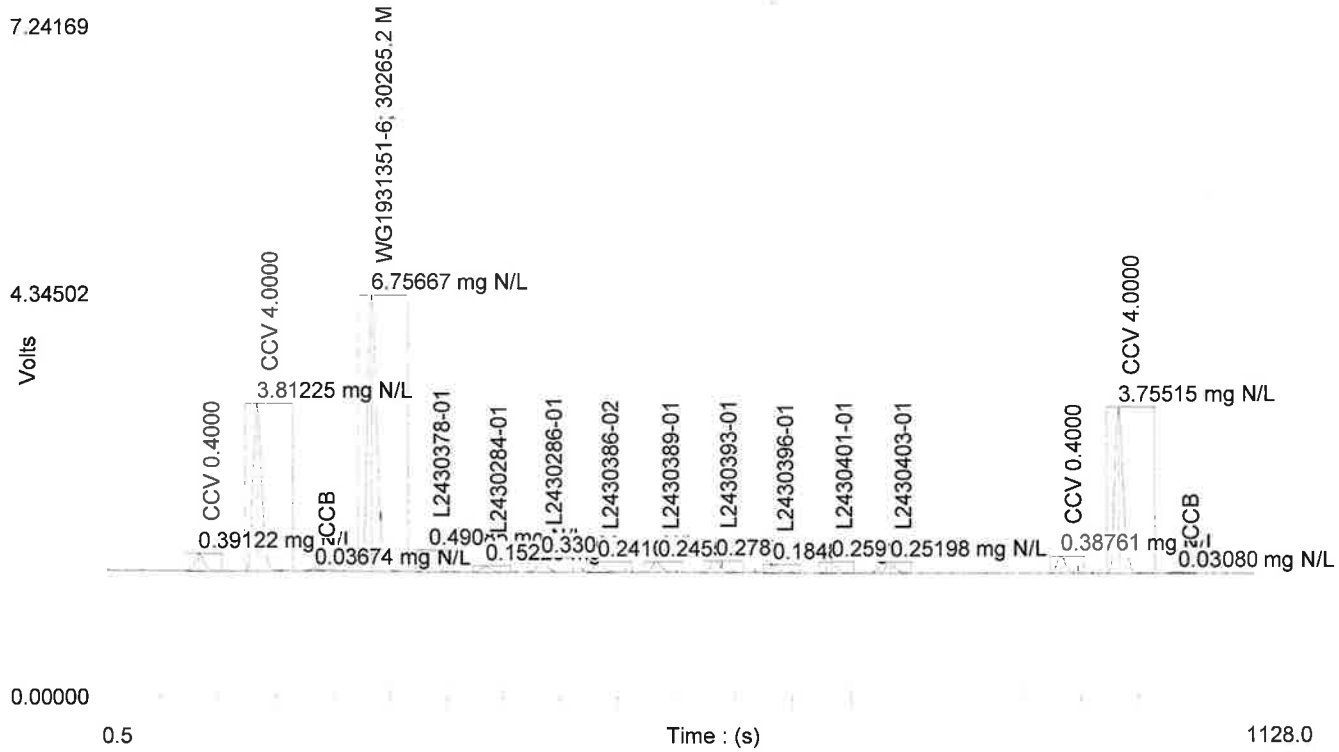
Author: A1WETCHEMINSTRUMENT Date : 6/9/2024

Original Run Filename: OM_6-9-2024_01-25-09PM.OMN Created: 6/9/2024 1:25:09 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-9-2024_01-25-09PM.OMN Last Modified: 6/9/2024 1:44:10 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

C2

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.39122	98%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.81225	95%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.03674 ✓			
	Known Conc:		100.00000			98%
WG1931351-6; 30265.2 MS	1	11	10.13501		1.50	
L2430378-01	1	12	0.73627		1.50	
L2430284-01 (30284.1)	1	13	0.22838		1.50	
L2430286-01 (30286.1)	1	14	0.49601		1.50	
L2430386-02	1	15	0.36150		1.50	
L2430389-01	1	16	0.36835		1.50	
L2430393-01	1	17	0.41808		1.50	
L2430396-01	1	18	0.27723		1.50	
L2430401-01	1	19	0.38868		1.50	
L2430403-01	1	20	0.37798		1.50	
CCV 0.4000	1	S6	0.38761	97%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.75515	94%		
	Known Conc:		100.00000			
CCB	1	S10	0.03080 ✓			
	Known Conc:		100.00000			

Channel 2 (Ammonia High) - Current View

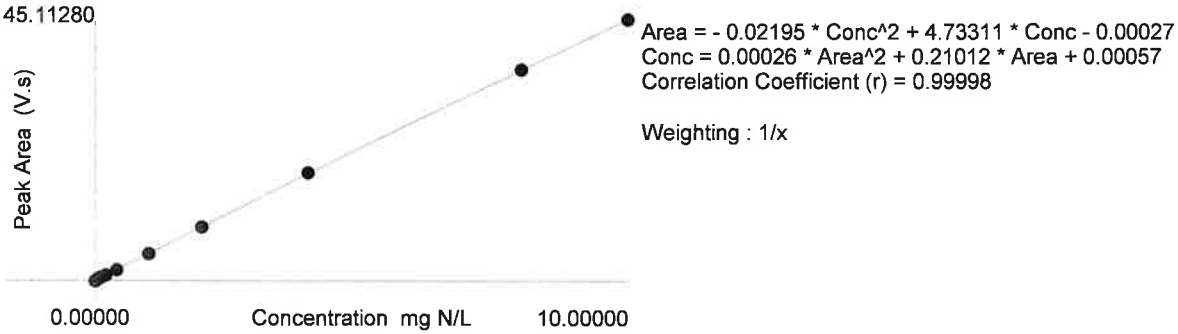


Author: A1WETCHEMINSTRUMENT Date : 6/9/2024

Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	45.11280	4.26833	0.0	0.1	9.99859	6/9/2024	11:15:57 AM
2	8.00000	1	36.48932	3.52901	0.0	-0.1	8.00718	6/9/2024	11:16:54 AM
3	4.00000	1	18.65756	1.76566	0.0	-0.4	4.00963	6/9/2024	11:17:51 AM
4	2.00000	1	9.26766	0.87012	0.0	1.2	1.96978	6/9/2024	11:18:48 AM
5	1.00000	1	4.63592	0.44231	0.0	1.6	0.98014	6/9/2024	11:19:46 AM
6	0.40000	1	1.83388	0.16851	0.0	2.9	0.38676	6/9/2024	11:20:44 AM
7	0.20000	1	0.95652	0.08192	0.0	-1.2	0.20179	6/9/2024	11:21:42 AM
8	0.10000	1	0.56759	0.04797	0.0	-20.0	0.11991	6/9/2024	11:22:41 AM
9	0.05000	1	0.28945	0.02070	0.0	-22.5	0.06141	6/9/2024	11:23:38 AM
10	0.00000	1	-0.09110	-0.00354			-0.01857	6/9/2024	11:24:35 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

Date : 6/9/2024

Original Run Filename: OM_6-9-2024_01-44-56PM.OMN Created: 6/9/2024 1:44:56 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-9-2024_01-44-56PM.OMN Last Modified: 6/9/2024 2:12:35 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.38341	96%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1	93%		
CCV 4.0000	1	S3	3.72700			
	Known Conc:		100.00000			
CCB	1	S10	0.03588			
	Known Conc:		100.00000			
WG1931358-1; BLK 6/7	1	1	0.02109		1.50	98%
WG1931358-2; HI LCS; 5X	1	2	17.99558		7.50	
LO LCS	1	3	1.79707		1.50	90%
L2429529-01	1	4	1408.19165		150.00	
L2430109-01	1	5	0.54287		1.50	
L2431693-01	1	6	1.27594		1.50	
L2431693-02	1	7	1.35155		3.00	
L2430251-01	1	8	0.06971		1.50	
L2430251-02	1	9	0.12571		1.50	
L2430251-03	1	10	0.11859		1.50	
CCV 0.4000	1	S6	0.39042	98%		
	Known Conc:		100.00000	94%		
CCV 4.0000	1	S3	3.76445			
	Known Conc:		100.00000			
CCB	1	S10	0.03409			
	Known Conc:		100.00000			
L2430558-01	1	~~11~~	~~50.87094~~		~~1.50~~	
L2430558-02	1	~~12~~	~~460.57211~~		~~15.00~~	
L2430558-03	1	~~13~~	~~37.60246~~		~~1.50~~	
L2430558-04	1	~~14~~	~~34.57646~~		~~1.50~~	
L2430558-05	1	~~15~~	~~231.20258~~		~~7.50~~	
L2430558-06	1	~~16~~	~~41.09805~~		~~1.50~~	
L2430558-07; 25X	1	~~17~~	~~730.06775~~		~~75.00~~	
L2430558-08; 25X	1	18	218.57478		37.50	
L2430558-09; 25X	1	19	234.74725		37.50	
L2430251-04	1	20	0.66929		1.50	
CCV 0.4000	1	S6	0.49079			
	Known Conc:		100.00000			

w/ dilution.

reject - OK

Author: A1WETCHEMINSTRUMENT

Date : 6/9/2024

Channel 2 (Ammonia High) - Current View

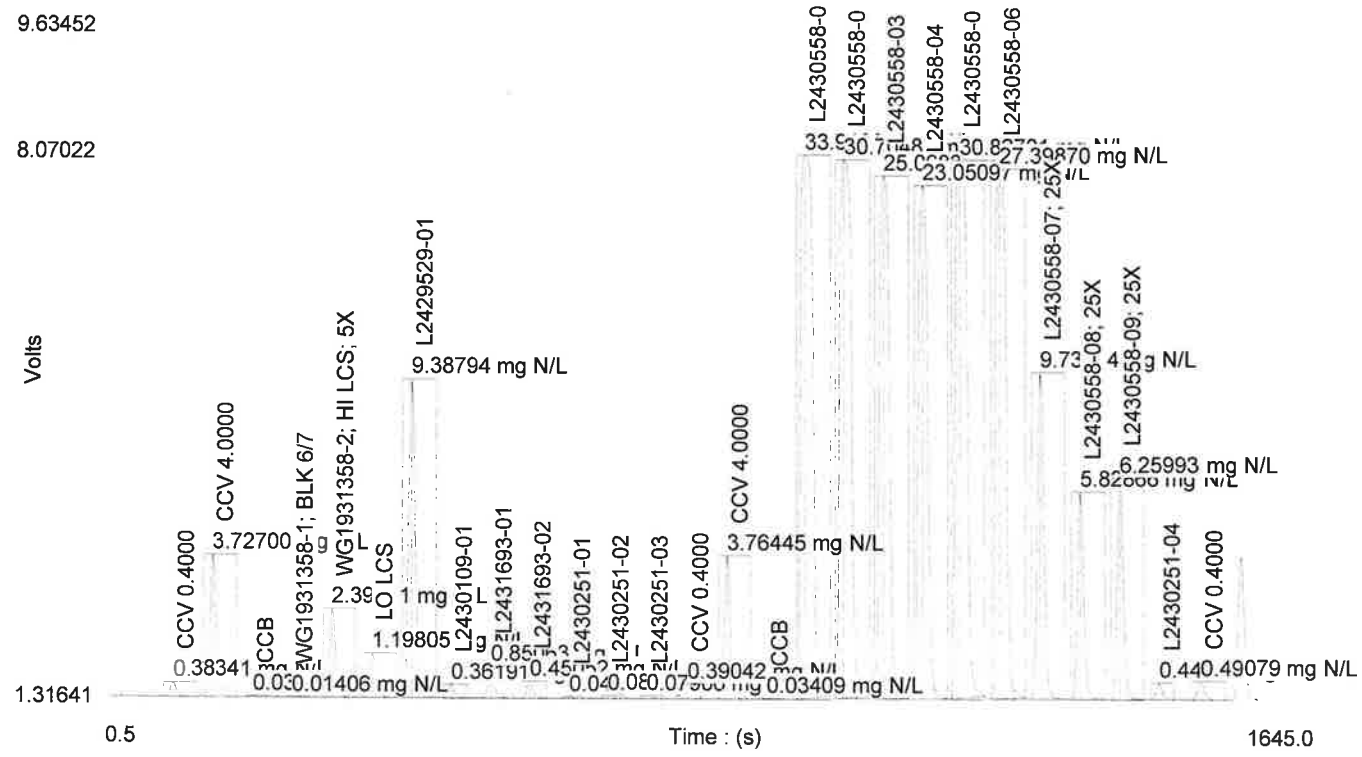
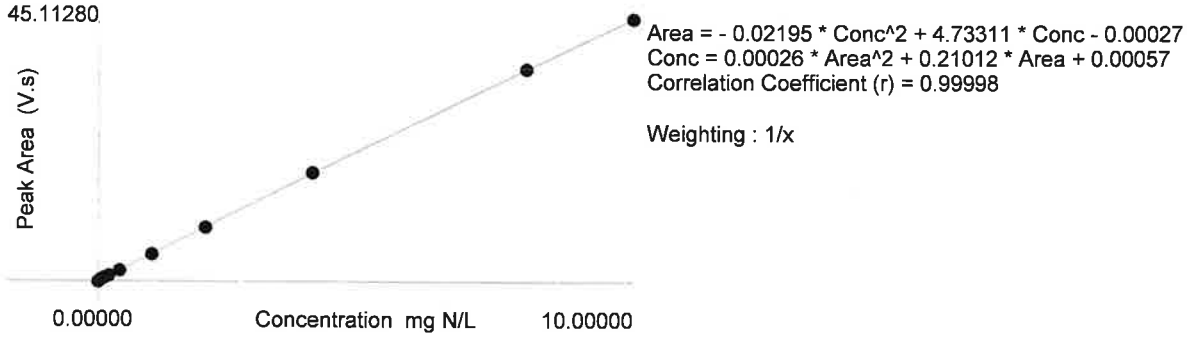


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	45.11280	4.26833	0.0	0.1	9.99859	6/9/2024	11:15:57 AM
2	8.00000	1	36.48932	3.52901	0.0	-0.1	8.00718	6/9/2024	11:16:54 AM
3	4.00000	1	18.65756	1.76566	0.0	-0.4	4.00963	6/9/2024	11:17:51 AM
4	2.00000	1	9.26766	0.87012	0.0	1.2	1.96978	6/9/2024	11:18:48 AM
5	1.00000	1	4.63592	0.44231	0.0	1.6	0.98014	6/9/2024	11:19:46 AM
6	0.40000	1	1.83388	0.16851	0.0	2.9	0.38676	6/9/2024	11:20:44 AM
7	0.20000	1	0.95652	0.08192	0.0	-1.2	0.20179	6/9/2024	11:21:42 AM
8	0.10000	1	0.56759	0.04797	0.0	-20.0	0.11991	6/9/2024	11:22:41 AM
9	0.05000	1	0.28945	0.02070	0.0	-22.5	0.06141	6/9/2024	11:23:38 AM
10	0.00000	1	-0.09110	-0.00354			-0.01857	6/9/2024	11:24:35 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT Date : 6/9/2024

Original Run Filename: OM_6-9-2024_02-16-31PM.OMN Created: 6/9/2024 2:16:31 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-9-2024_02-16-31PM.OMN Last Modified: 6/9/2024 2:31:48 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

D2

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.39606	99%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.74149	94%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.04294			
	Known Conc:		100.00000			
L2430251-05	1	21	0.14176		1.50	
L2430251-06	1	22	0.18796		1.50	
L2430251-07	1	23	0.15046		1.50	
WG1931358-4; 30251.7 MS	1	24	4.30081		1.50	104%
WG1931358-3; 30251.7 DUP	1	25	0.32060		1.50	72% (4+4L)
L2430558-01; 50X	1	26	301.06055		75.00	
L2430558-02; 50X	1	27	1937.00244		750.00	
L2430558-03; 25X	1	28	90.69696		37.50	
L2430558-04; 25X	1	29	69.45621		37.50	
L2430558-05; 50X	1	30	983.42426		375.00	
CCV 0.4000	1	S6	0.55068			
	Known Conc:		100.00000			

reinject - OK

Channel 2 (Ammonia High) - Current View

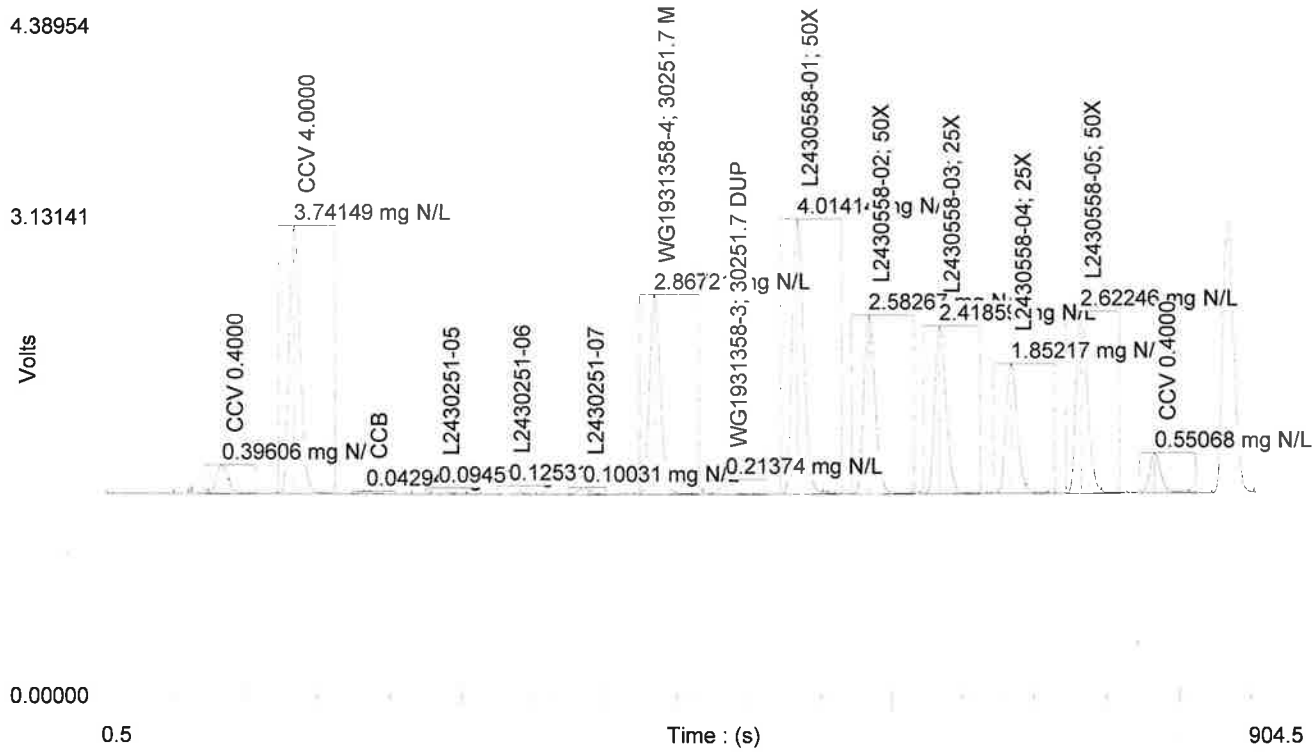
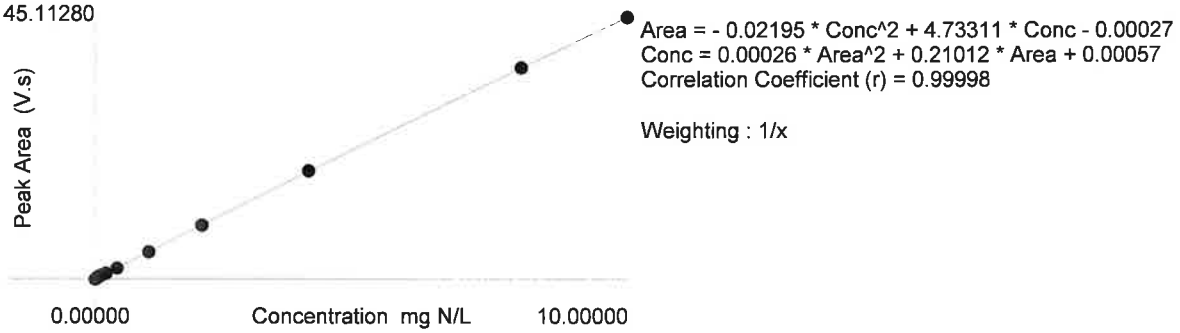


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	45.11280	4.26833	0.0	0.1	9.99859	6/9/2024	11:15:57 AM
2	8.00000	1	36.48932	3.52901	0.0	-0.1	8.00718	6/9/2024	11:16:54 AM
3	4.00000	1	18.65756	1.76566	0.0	-0.4	4.00963	6/9/2024	11:17:51 AM
4	2.00000	1	9.26766	0.87012	0.0	1.2	1.96978	6/9/2024	11:18:48 AM
5	1.00000	1	4.63592	0.44231	0.0	1.6	0.98014	6/9/2024	11:19:46 AM
6	0.40000	1	1.83388	0.16851	0.0	2.9	0.38676	6/9/2024	11:20:44 AM
7	0.20000	1	0.95652	0.08192	0.0	-1.2	0.20179	6/9/2024	11:21:42 AM
8	0.10000	1	0.56759	0.04797	0.0	-20.0	0.11991	6/9/2024	11:22:41 AM
9	0.05000	1	0.28945	0.02070	0.0	-22.5	0.06141	6/9/2024	11:23:38 AM
10	0.00000	1	-0.09110	-0.00354			-0.01857	6/9/2024	11:24:35 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

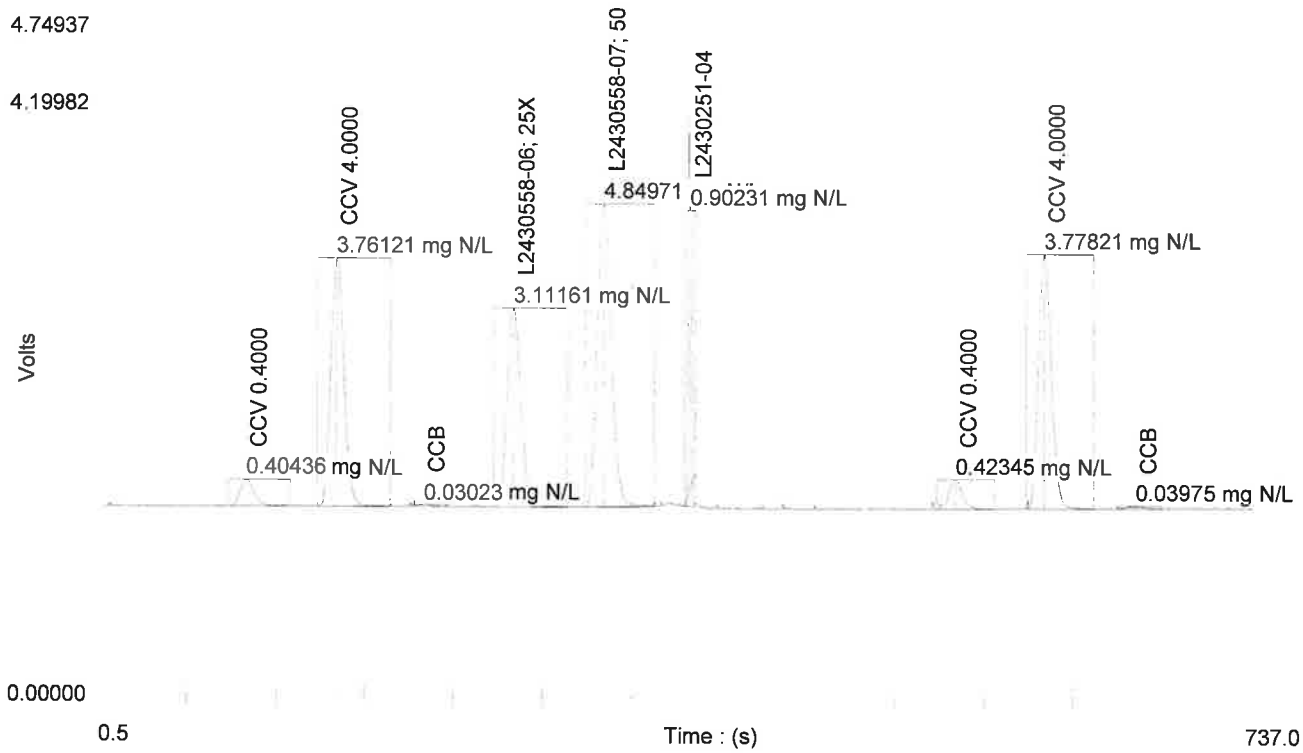
Date : 6/9/2024

Original Run Filename: OM_6-9-2024_02-34-22PM.OMN Created: 6/9/2024 2:34:22 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-9-2024_02-34-22PM.OMN Last Modified: 6/9/2024 2:46:50 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.40436	101%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.76121	94%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.03023	✓		
	Known Conc:		100.00000			
L2430558-06; 25X	1	31	116.68545		37.50	
L2430558-07; 50X	1	32	727.45721		150.00	
~~L2430251-04~~	~~1~~	~~20~~	~~1.35346~~	~~106%~~	~~1.50~~	~~not needed.~~
CCV 0.4000	1	S6	0.42345	106%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.77821	95%		
	Known Conc:		100.00000			
CCB	1	S10	0.03975	✓		
	Known Conc:		100.00000			

D3

Channel 2 (Ammonia High) - Current View



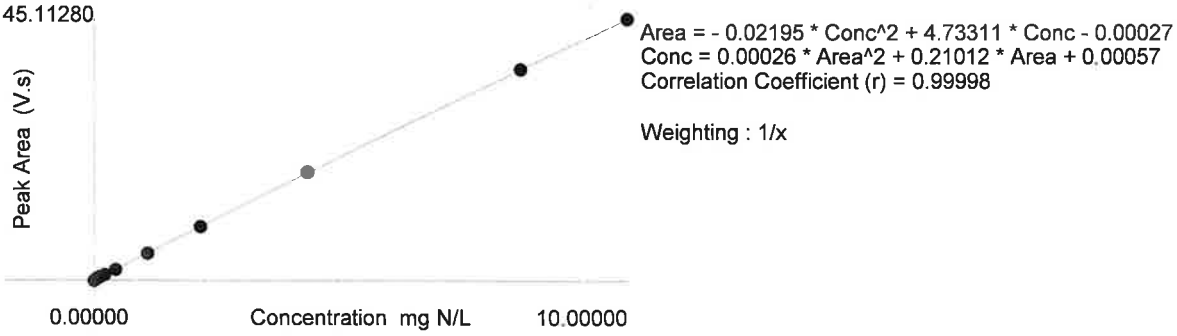
Author: A1WETCHEMINSTRUMENT

Date : 6/9/2024

Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	45.11280	4.26833	0.0	0.1	9.99859	6/9/2024	11:15:57 AM
2	8.00000	1	36.48932	3.52901	0.0	-0.1	8.00718	6/9/2024	11:16:54 AM
3	4.00000	1	18.65756	1.76566	0.0	-0.4	4.00963	6/9/2024	11:17:51 AM
4	2.00000	1	9.26766	0.87012	0.0	1.2	1.96978	6/9/2024	11:18:48 AM
5	1.00000	1	4.63592	0.44231	0.0	1.6	0.98014	6/9/2024	11:19:46 AM
6	0.40000	1	1.83388	0.16851	0.0	2.9	0.38676	6/9/2024	11:20:44 AM
7	0.20000	1	0.95652	0.08192	0.0	-1.2	0.20179	6/9/2024	11:21:42 AM
8	0.10000	1	0.56759	0.04797	0.0	-20.0	0.11991	6/9/2024	11:22:41 AM
9	0.05000	1	0.28945	0.02070	0.0	-22.5	0.06141	6/9/2024	11:23:38 AM
10	0.00000	1	-0.09110	-0.00354			-0.01857	6/9/2024	11:24:35 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

Date : 6/9/2024

Original Run Filename: OM_6-9-2024_02-51-51PM.OMN Created: 6/9/2024 2:51:51 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-9-2024_02-51-51PM.OMN Last Modified: 6/9/2024 3:23:12 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

E

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.42645			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.95226			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.03933			
	Known Conc:		100.00000			
WG1931109-1 T; BLK 6/7	1	1	0.01727			
WG1931109-2 T; HI LCS; 5X	1	2	39.83867		15.00	
LO LCS T	1	3	4.13546		3.00	
L2426947-01 T	1	4	0.49397		3.00	
WG1931109-4 T; 26947.1 MS	1	5	8.29632		3.00	
WG1931109-3 T; 26947.1 DUP	1	6	0.58257		3.00	
L2426947-03 T	1	7	1.81722		30.00	
L2426947-04 T	1	8	17.14177		300.00	
L2426947-05 T	1	9	1.81312		60.00	
L2426947-06 T	1	10	0.05377		3.00	
CCV 0.4000	1	S6	0.38585			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.94956			
	Known Conc:		100.00000			
CCB	1	S10	0.03368			
	Known Conc:		100.00000			
L2426947-07 T	1	11	0.09153		3.00	
L2430085-01 T	1	12	3.91456		3.00	
L2430087-01 T	1	13	6.86154		3.00	
L2430087-02 T	1	14	2.03003		3.00	
L2430264-01 T	1	15	0.27521		3.00	
L2430262-01 T	1	16	32.31212		6.00	
L2430262-02 T	1	17	1.23685		3.00	
L2430265-01 T; 5X	1	18	12.58336		15.00	
L2430265-02 T	1	19	8.23383		3.00	
L2426947-02 T	1	20	0.60342		3.00	
CCV 0.4000	1	S6	0.39520			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.94002			
	Known Conc:		100.00000			
CCB	1	S10	0.03400			
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT Date : 6/9/2024

Channel 2 (Ammonia High) - Current View

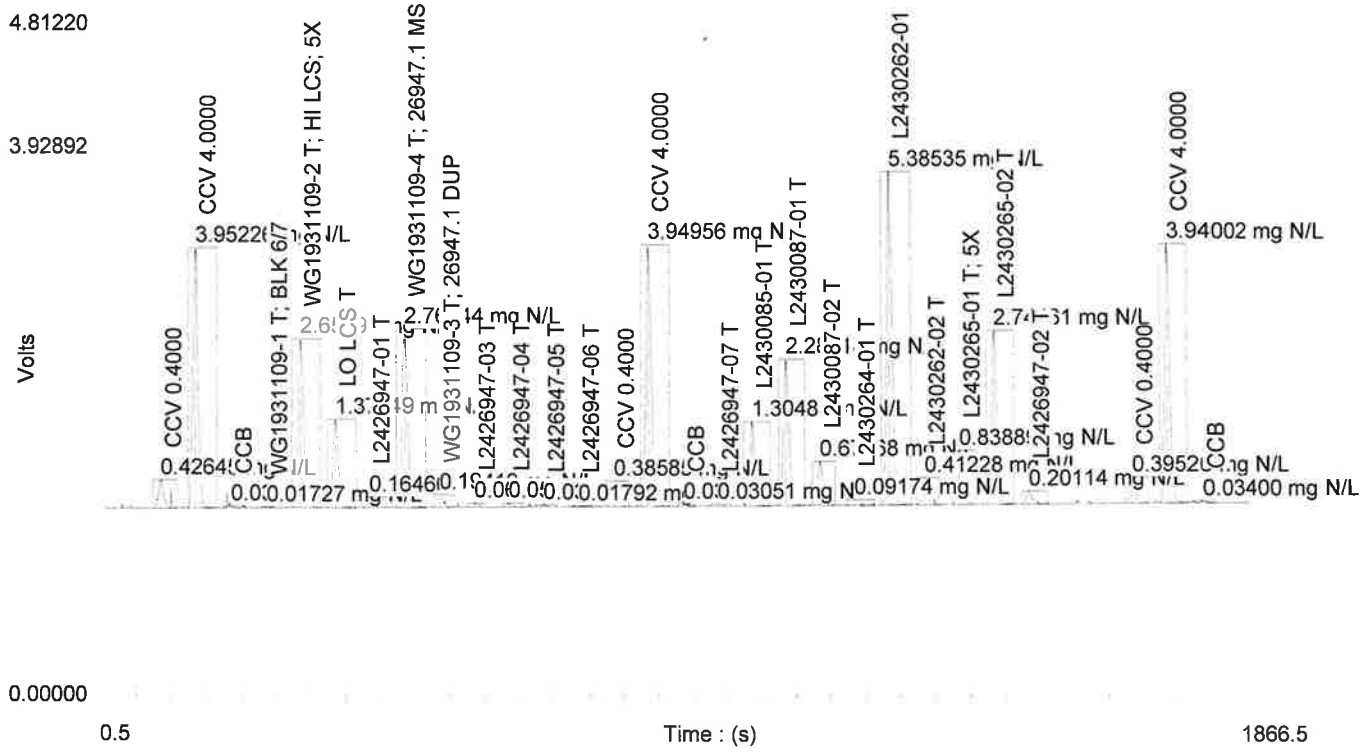
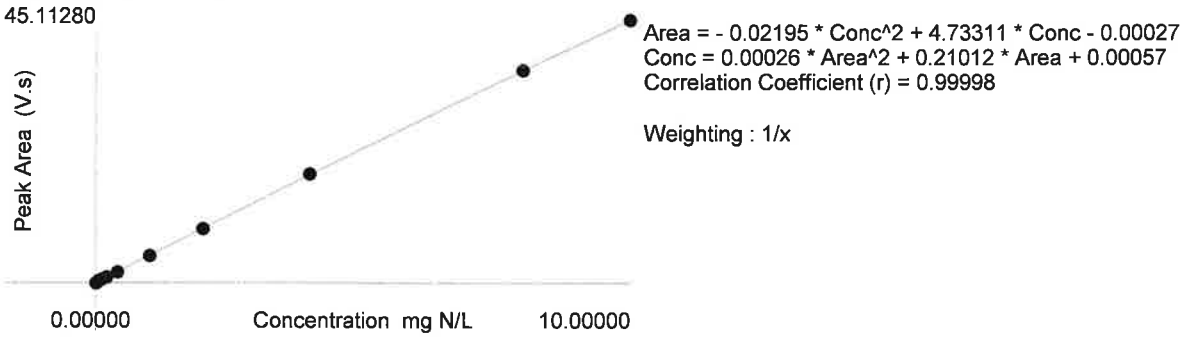


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	45.11280	4.26833	0.0	0.1	9.99859	6/9/2024	11:15:57 AM
2	8.00000	1	36.48932	3.52901	0.0	-0.1	8.00718	6/9/2024	11:16:54 AM
3	4.00000	1	18.65756	1.76566	0.0	-0.4	4.00963	6/9/2024	11:17:51 AM
4	2.00000	1	9.26766	0.87012	0.0	1.2	1.96978	6/9/2024	11:18:48 AM
5	1.00000	1	4.63592	0.44231	0.0	1.6	0.98014	6/9/2024	11:19:46 AM
6	0.40000	1	1.83388	0.16851	0.0	2.9	0.38676	6/9/2024	11:20:44 AM
7	0.20000	1	0.95652	0.08192	0.0	-1.2	0.20179	6/9/2024	11:21:42 AM
8	0.10000	1	0.56759	0.04797	0.0	-20.0	0.11991	6/9/2024	11:22:41 AM
9	0.05000	1	0.28945	0.02070	0.0	-22.5	0.06141	6/9/2024	11:23:38 AM
10	0.00000	1	-0.09110	-0.00354			-0.01857	6/9/2024	11:24:35 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

Date : 6/9/2024

Original Run Filename: OM_6-9-2024_04-14-45PM.OMN Created: 6/9/2024 4:14:45 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-9-2024_04-14-45PM.OMN Last Modified: 6/9/2024 4:52:29 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
CCV 0.4000	1	S6	0.38811	97%			
	Known Conc:		100.00000				
CCV 4.0000	1	S3	3.96315	99%			
	Known Conc:		100.00000				
CCB	1	S10	0.04256				
	Known Conc:		100.00000				
WG1931538-4; BLK 6/6 SOIL	1	1	1.60779		150.00	1.04840 g	
WG1931538-2; HI LCS SOIL; 5X	1	2	1738.75037		750.00	1.07150 g	93%
LO LCS SOIL	1	3	181.16669		150.00	1.03350 g	93%
	Calibration:		Table/Fig. : 1				
L2430618-01	1	4	50.09316		150.00	0.50610 g	
L2430618-02	1	5	159.46864		150.00	1.02270 g	
L2430618-03	1	6	14.50725		150.00	1.01680 g	
L2430618-04	1	7	6.19049		150.00	1.07390 g	
L2430618-05	1	8	9.55582		150.00	1.05640 g	
L2430618-06	1	9	97.44537		150.00	0.52540 g	
L2430618-07	1	10	30.45023		150.00	1.12290 g	
CCV 0.4000	1	S6	0.38674	97%			
	Known Conc:		100.00000				
CCV 4.0000	1	S3	3.91142	98%			
	Known Conc:		100.00000				
CCB	1	S10	0.03102				
	Known Conc:		100.00000				
L2430618-08	~~1~~	~~11~~	~~-17.87231~~		~~150.00~~	~~1.04490 g~~	Baseline shifted.
L2430618-09	1	12	19.11793		150.00	1.29330 g	
L2430618-10	1	13	6.16888		150.00	1.15390 g	
L2430618-11	1	14	7.66947		150.00	1.17110 g	
L2430618-12	1	15	4.34955		150.00	1.02820 g	
L2430618-13	1	16	3.65987		150.00	1.00110 g	
L2430618-14	1	17	146.32684		150.00	1.10810 g	
L2430618-15	1	18	18.01659		150.00	1.00090 g	
L2430618-16	1	19	11.45464		150.00	1.00570 g	
L2430618-17	1	20	9.76027		150.00	1.16430 g	
CCV 0.4000	1	S6	0.39421	99%			
	Known Conc:		100.00000				
CCV 4.0000	1	S3	3.94269	99%			
	Known Conc:		100.00000				
CCB	1	S10	0.03359				
	Known Conc:		100.00000				
WG1931538-4; 30618.17 MS	1	21	378.79068		150.00	1.07730 g	100% (RL)
WG1931538-3; 30618.17 DUP	1	22	28.58461		150.00	1.08640 g	
L2430618-08	1	23	17.21032		150.00	1.04490 g	98%
CCV 0.4000	1	S6	0.39262	98%			
	Known Conc:		100.00000				
CCV 4.0000	1	S3	3.95001	99%			
	Known Conc:		100.00000				
CCB	1	S10	0.03427				
	Known Conc:		100.00000				

LCS: 1867 mg/kg
LO LCS: 194 mg/kg

MS: 371 mg/kg

Author: A1WETCHEMINSTRUMENT

Date : 6/9/2024

Channel 2 (Ammonia High) - Current View

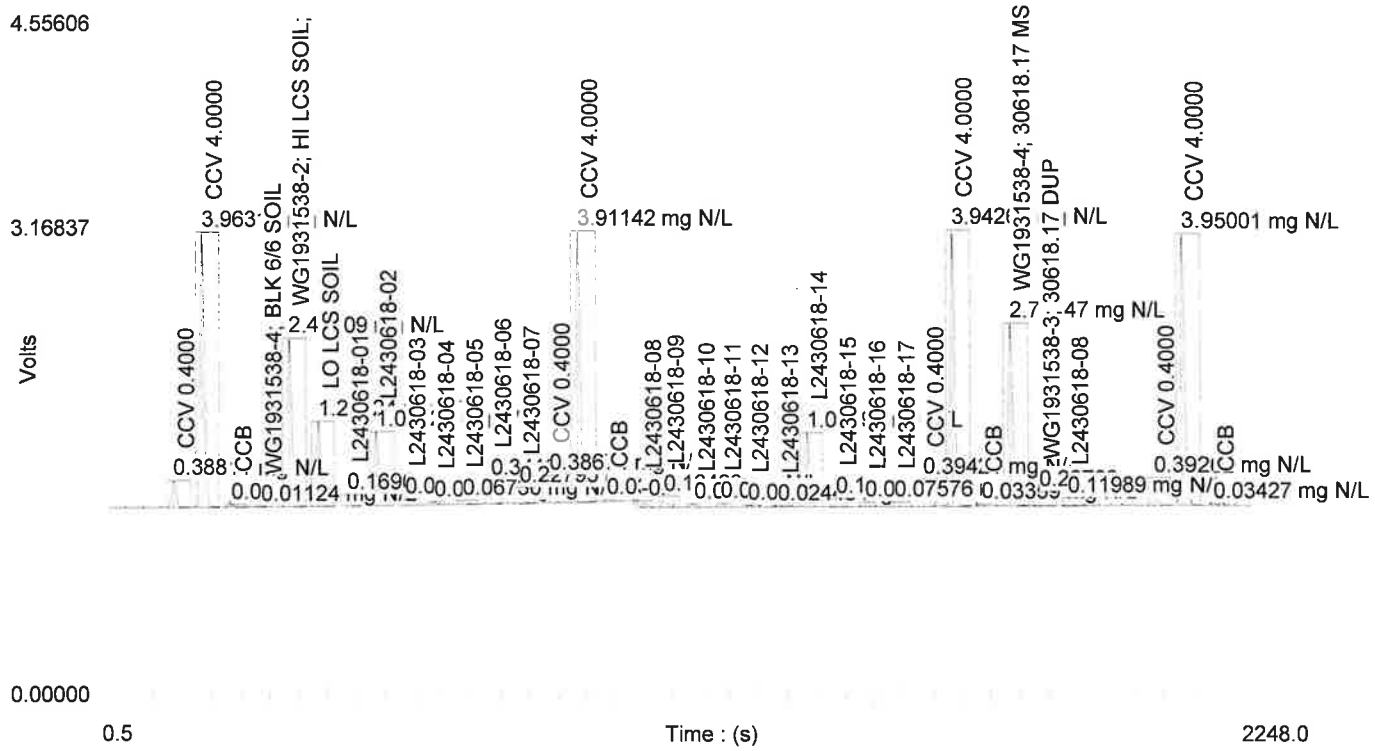
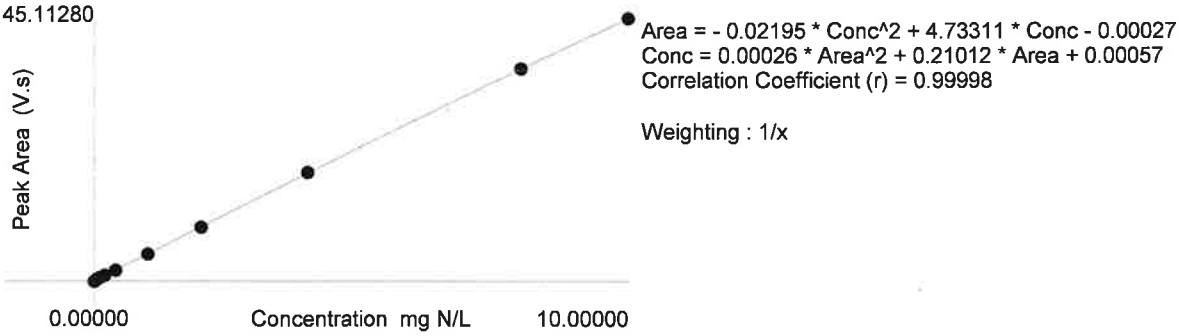


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	45.11280	4.26833	0.0	0.1	9.99859	6/9/2024	11:15:57 AM
2	8.00000	1	36.48932	3.52901	0.0	-0.1	8.00718	6/9/2024	11:16:54 AM
3	4.00000	1	18.65756	1.76566	0.0	-0.4	4.00963	6/9/2024	11:17:51 AM
4	2.00000	1	9.26766	0.87012	0.0	1.2	1.96978	6/9/2024	11:18:48 AM
5	1.00000	1	4.63592	0.44231	0.0	1.6	0.98014	6/9/2024	11:19:46 AM
6	0.40000	1	1.83388	0.16851	0.0	2.9	0.38676	6/9/2024	11:20:44 AM
7	0.20000	1	0.95652	0.08192	0.0	-1.2	0.20179	6/9/2024	11:21:42 AM
8	0.10000	1	0.56759	0.04797	0.0	-20.0	0.11991	6/9/2024	11:22:41 AM
9	0.05000	1	0.28945	0.02070	0.0	-22.5	0.06141	6/9/2024	11:23:38 AM
10	0.00000	1	-0.09110	-0.00354			-0.01857	6/9/2024	11:24:35 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

Date : 6/9/2024

Original Run Filename: OM_6-9-2024_04-53-26PM.OMN Created: 6/9/2024 4:53:26 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-9-2024_04-53-26PM.OMN Last Modified: 6/9/2024 5:40:54 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

G

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.38483	96%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1	95%		
CCV 4.0000	1	S3	3.94773			
	Known Conc:		100.00000			
CCB	1	S10	0.03483 ✓			
	Known Conc:		100.00000			
WG1931645-1; BLK 6/8	1	1	0.01448		1.50	
WG1931645-2; HI LCS; 5X	1	2	19.37444		7.50	97%
LO LCS	1	3	1.94030		1.50	97%
L2430144-01	1	~~4~~	~~20.22753~~		1.50	
WG1931645-4; 30144.1 MS	1	~~5~~	~~22.76653~~		1.50	wdilution.
WG1931645-3; 30144.1 DUP	1	6	~~20.56828~~		1.50	
L2429014-01	1	7	~~0.73202~~		~~1.50~~	
L2430524-01	1	8	20.69886		3.00	
L2430524-02	1	9	0.55036		1.50	
L2430725-01	1	10	0.12429		1.50	
CCV 0.4000	1	S6	0.40093	100%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.95141	99%		
	Known Conc:		100.00000			
CCB	1	S10	0.04398 ✓			
	Known Conc:		100.00000			
L2430573-01	1	11	0.19693		1.50	
L2430690-02	1	12	0.17278		1.50	
L2430695-02	1	13	0.68946		1.50	
L2430716-01	1	14	63.16984		7.50	
L2430716-02	1	~~15~~	~~18.11272~~		1.50	
L2430738-02	1	~~16~~	~~1.15839~~		~~1.50~~	
L2430743-01	1	17	13.43297		3.00	
L2430743-02	1	18	0.37761		1.50	
L2430746-01	1	19	0.97344		1.50	
L2430725-02	1	20	0.09057		1.50	
CCV 0.4000	1	S6	0.39689	99%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.96160	99%		
	Known Conc:		100.00000			
CCB	1	S10	0.04159 ✓			
	Known Conc:		100.00000			
L2430902-01	1	21	0.10545		1.50	
L2430873-02	1	22	0.26651		3.00	
L2430847-01	1	23	0.30906		1.50	
L2430847-02	1	24	0.79924		1.50	
L2430725-03	1	25	0.09690		1.50	
L2430144-01; 10X	1	26	23.61174		15.00	
WG1931645-4; 30144.1 MS; 10X	1	27	28.20675		15.00	115%
WG1931645-3; 30144.1 DUP; 10X	1	28	25.07139		15.00	6%
L2429014-01	1	29	0.17448		1.50	
L2430738-02	1	30	0.63102		1.50	
CCV 0.4000	1	S6	0.40089	101%		
	Known Conc:		100.00000	98%		
CCV 4.0000	1	S3	3.92955			
	Known Conc:		100.00000			
CCB	1	S10	0.03971 ✓			
	Known Conc:		100.00000			
L2430716-02; 10X	1	31	18.59587		15.00	
CCV 0.4000	1	S6	0.39503	99%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.95068	99%		

		Known Conc:	100.00000	
CCB	1	S10	0.04224	✓
		Known Conc:	100.00000	

Channel 2 (Ammonia High) - Current View

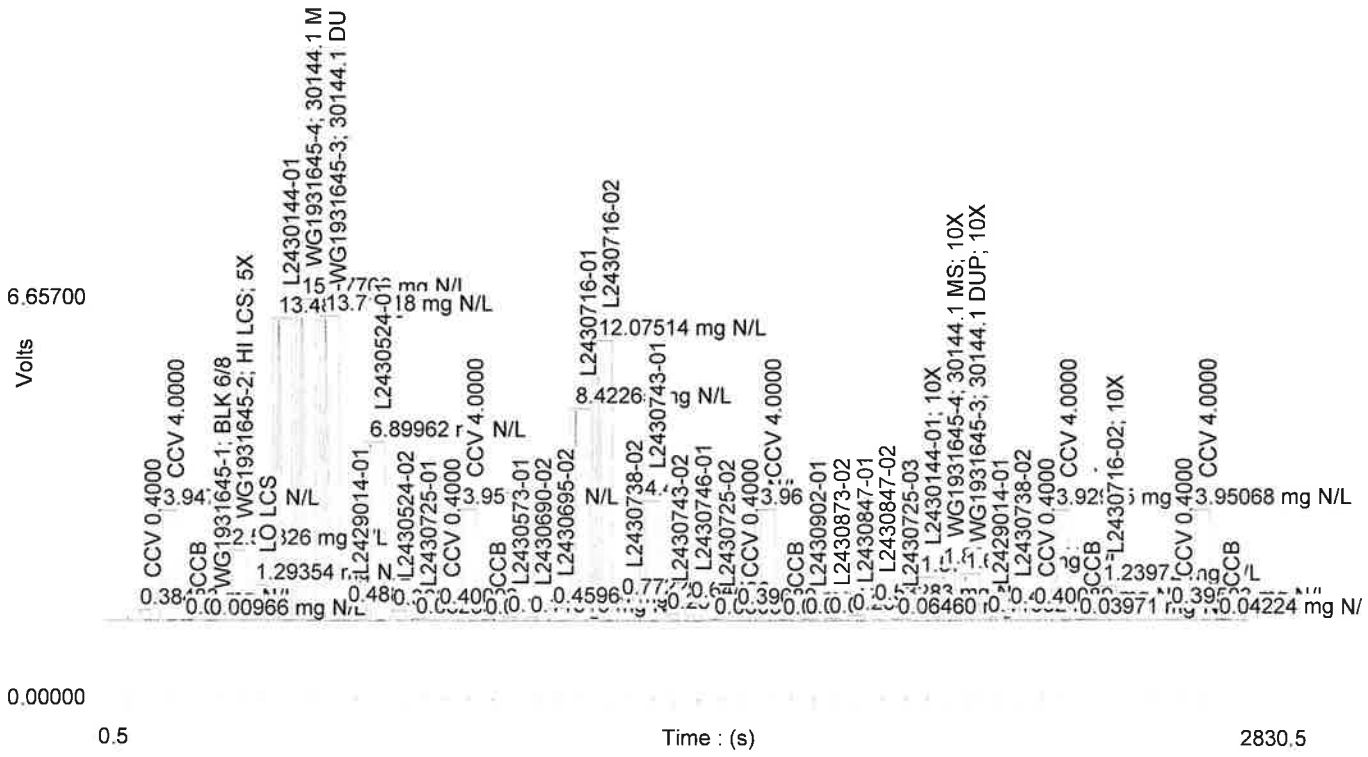


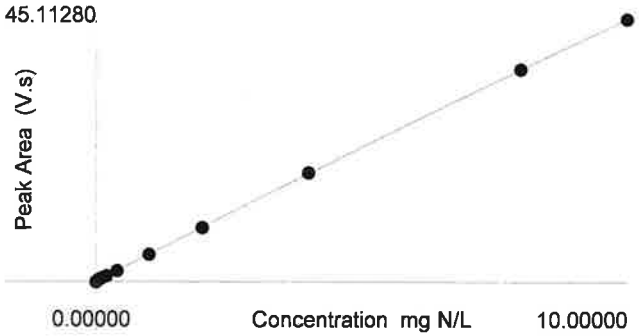
Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	45.11280	4.26833	0.0	0.1	9.99859	6/9/2024	11:15:57 AM
2	8.00000	1	36.48932	3.52901	0.0	-0.1	8.00718	6/9/2024	11:16:54 AM
3	4.00000	1	18.65756	1.76566	0.0	-0.4	4.00963	6/9/2024	11:17:51 AM
4	2.00000	1	9.26766	0.87012	0.0	1.2	1.96978	6/9/2024	11:18:48 AM
5	1.00000	1	4.63592	0.44231	0.0	1.6	0.98014	6/9/2024	11:19:46 AM
6	0.40000	1	1.83388	0.16851	0.0	2.9	0.38676	6/9/2024	11:20:44 AM
7	0.20000	1	0.95652	0.08192	0.0	-1.2	0.20179	6/9/2024	11:21:42 AM
8	0.10000	1	0.56759	0.04797	0.0	-20.0	0.11991	6/9/2024	11:22:41 AM
9	0.05000	1	0.28945	0.02070	0.0	-22.5	0.06141	6/9/2024	11:23:38 AM
10	0.00000	1	-0.09110	-0.00354			-0.01857	6/9/2024	11:24:35 AM

Author: A1WETCHEMINSTRUMENT

Date : 6/9/2024

Figure : 1 (Ammonia)



Area = - 0.02195 * Conc^2 + 4.73311 * Conc - 0.00027
Conc = 0.00026 * Area^2 + 0.21012 * Area + 0.00057
Correlation Coefficient (r) = 0.99998

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

Date : 6/9/2024

Original Run Filename: OM_6-9-2024_05-41-53PM.OMN Created: 6/9/2024 5:41:53 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-9-2024_05-41-53PM.OMN Last Modified: 6/9/2024 6:22:44 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.38544	96%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.95296	99%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.03780			
	Known Conc:		100.00000			
WG1931643-1; BLK 6/8	1	1	0.02191		1.50	
WG1931643-2; HI LCS; 5X	1	2	19.00732		7.50	95%
LO LCS	1	3	1.93004		1.50	97%
L2430741-01	1	4	0.15257		1.50	
L2430741-02	1	5	0.08104		1.50	
WG1931643-4; 30741.2 MS	1	6	4.12005		1.50	101%
WG1931643-3; 30741.2 DUP	1	7	0.24051		1.50	NC (<5 RPD)
L2430780-01	1	8	0.38679		1.50	99%
L2430780-02	1	9	0.38673		1.50	
L2430780-03	1	10	0.39938		1.50	
CCV 0.4000	1	S6	0.39778	100%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.94346	99%		
	Known Conc:		100.00000			
CCB	1	S10	0.04111			
	Known Conc:		100.00000			
L2430780-04	1	11	0.20591		1.50	
L2430780-05	1	12	0.43775		1.50	
L2430780-06	1	13	0.37828		1.50	
L2430897-01	1	14	0.04768		1.50	
L2430897-02	1	15	0.04152		1.50	
L2430897-03	1	16	0.81215		1.50	
L2430897-04	1	17	0.22235		1.50	
L2430897-05	1	18	2.49262		1.50	
L2430897-06	1	19	0.69379		1.50	
L2430897-07	1	20	1.21016		1.50	
CCV 0.4000	1	S6	0.42500	106%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.95123	99%		
	Known Conc:		100.00000			
CCB	1	S10	0.04411			
	Known Conc:		100.00000			
WG1931643-4; 30897.7 MS	1	21	5.36325		1.50	104%
WG1931643-3; 30897.7 DUP	1	22	1.33977		1.50	5%
L2430897-08	1	23	0.11643		1.50	
L2430897-09	1	24	0.14645		1.50	
L2430897-10	1	25	4.04579		1.50	
L2430897-11	1	26	0.44038		1.50	
L2430897-12	1	27	4.36449		1.50	
CCV 0.4000	1	S6	0.40377	101%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.96638	99%		
	Known Conc:		100.00000			
CCB	1	S10	0.04513			
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 6/9/2024

Channel 2 (Ammonia High) - Current View

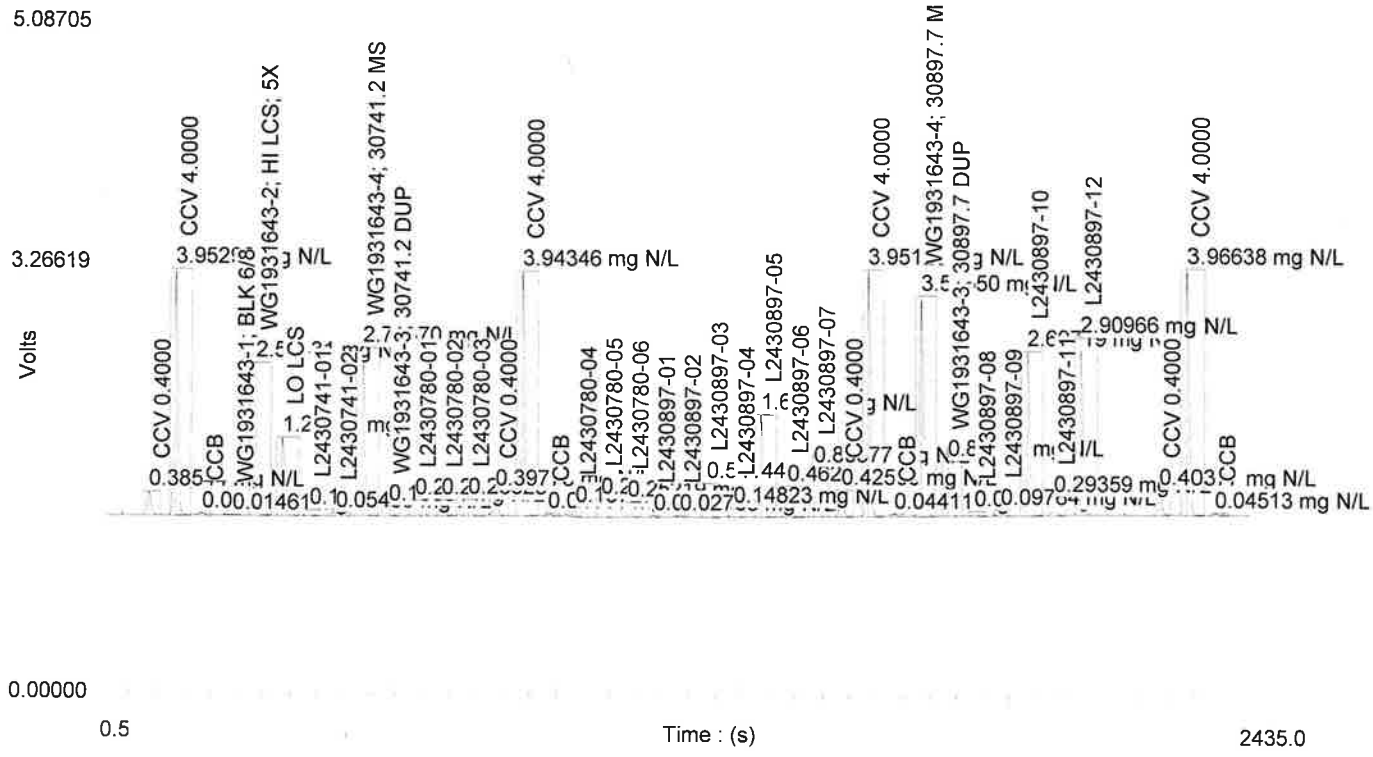
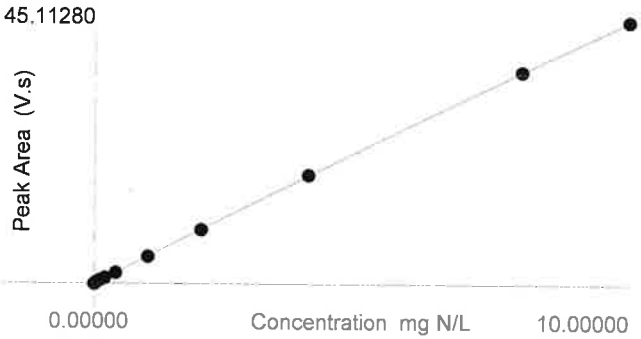


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	45.11280	4.26833	0.0	0.1	9.99859	6/9/2024	11:15:57 AM
2	8.00000	1	36.48932	3.52901	0.0	-0.1	8.00718	6/9/2024	11:16:54 AM
3	4.00000	1	18.65756	1.76566	0.0	-0.4	4.00963	6/9/2024	11:17:51 AM
4	2.00000	1	9.26766	0.87012	0.0	1.2	1.96978	6/9/2024	11:18:48 AM
5	1.00000	1	4.63592	0.44231	0.0	1.6	0.98014	6/9/2024	11:19:46 AM
6	0.40000	1	1.83388	0.16851	0.0	2.9	0.38676	6/9/2024	11:20:44 AM
7	0.20000	1	0.95652	0.08192	0.0	-1.2	0.20179	6/9/2024	11:21:42 AM
8	0.10000	1	0.56759	0.04797	0.0	-20.0	0.11991	6/9/2024	11:22:41 AM
9	0.05000	1	0.28945	0.02070	0.0	-22.5	0.06141	6/9/2024	11:23:38 AM
10	0.00000	1	-0.09110	-0.00354			-0.01857	6/9/2024	11:24:35 AM

Figure : 1 (Ammonia)



Quality Control

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix**	: WATER
Lab Sample ID	: L2430219-04		
Matrix Spike	: WG1931426-4	**MS Analysis Date**	: 06/09/24 12:46
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Nitrogen, Total Kjeldahl	0.129J	8	8.28	104					77-111	24

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix**	: WATER
Lab Sample ID	: L2430219-04	**Analysis Date**	: 06/09/24 12:45
Dup Sample ID	: WG1931426-3	**DUP Analysis Date**	: 06/09/24 12:47

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Total Kjeldahl	0.129J	0.530	NC	24

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1931426-2	**LCS Analysis Date**	: 06/09/24 12:32
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Nitrogen, Total Kjeldahl	40.0	36.2	90.					78-122	24

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Total Kjeldahl	NONE	0.3	0.066	mg/l	78-122		77-111	24	24	4500NH3-H	28 days	1 - Plastic 500ml H2SO4 preserved
Nitrogen, Total Kjeldahl	NONE	0.3	0.066	mg/l	78-122		77-111	24	24	351.1	28 days	1 - Plastic 500ml H2SO4 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Total Kjeldahl	NONE	150	31.5	mg/kg	81-115	26	43-160	26	26	4500NH3-H	28 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Nitrogen in TKN

Aqueous samples:

Compute sample TKN –N concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

If the sample has a concentration of less than 2ppm, calculate results by using the low curve generated on Channel 1.

If the sample concentration is greater than 2ppm, calculate the results by using the high curve generated on Channel 2.

To Compute the final results for aqueous samples, multiply the direct reading by the dilution factor based on the initial preparation volume. (also done using software)

TKN-N mg/L = mg/L direct reading x dilution factor

Sequence Logs

tg-A (11-44-56 AM) ~~(11-44-56 AM)~~

Prep 6/9/24 @2235

1 Hi-FW 8.0
2 Lo FW 1.0
3 FB
4 wk-193425-1 T- Blk 6/7
5 wk-193425-2 T- Hi wg T+
6 Low T
7 L 2430257.1 T
8 .2 T
9 .3 T
10 .4 T
11 .5 T
12 wk-193425-4 T- 30251.5 MS
13 wk-193425-3 T- 30251.5 Dp
14 30257.6 T
15 .7 T
16 30276.1 T (10+)
17 30556.1 T
18 30488.2 T
19 30494.1 T
20 30504.2 T - Tube leaking (replace all tubing)
21 30589.1 T
22 30741.1 T
23 .2 T

→ 12-14-28 PM

tg-B (12-27-30 PM)

Prep 6/7/24 @2235

1 wk-193426-1 T- Blk 6/7
2 wk-193426-2 T- Hi wg T+
3 Low T
4 31693.1 T
5 .2 T (2+)
6 30478.1 T
7 30472.1 T
8 L 2430227.1 T (5+)
9 .2 T (5+)
10 30219.1 T
11 .2 T
12 .3 T (2+)
13 .4 T
14 wk-193426-4 T- 30219.4 MS
15 wk-193426-3 T- 30219.4 Dp
16 30219.1 T
17 .6 T
18 .7 T
19 .8 T
20 .9 T

Date: 6/9/24
Sodium Phenolate: 5/27/24 R-4065
Sodium Hypochlorate: 5/27/24 new drop
Sodium Nitropruisside: 5/27/24 R-3969
Borric Acid Soln.: 5/27/24 R-4076
ICV 1.0: 6/4/24 WC-3933
ICV 8.0: 6/4/24 WC-3392
Cal. Std: 6/4/24 WC-3392
See Front Page for Instructions:

Witnessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

Project No. _____

nfidential Book No. _____ TITLE Mtg 6/7/24 @ Conf.

m Page No. ____

tg-C (01-06-11 pm)
Prop 6/7/24 @ 1728

1 wa-193357-1: Blu 6/7
2 wa-193357-2: Hi ms + +
3 6 ms
4 30262.1 (5+)
5 .2
6 wa-193357-4; 30262.2 ms
7 wa-193357-3; 30262.2 bp
8 30265.1 (2+)
9 .2
10 wa-193357-5; 30265.2 bp
11 wa-193357-6; 30262.2 ms
12 30378.1
13 30384.1
14 30386.1
15 .2
16 30389.1
17 30393.1
18 30396.1
19 30401.1
20 30403.1

→ 01-25-09 pm

tg-D (01-44-56 pm)
Prop 6/7/24 @ 1802

1 wa-193358-1. Blu 6/7
2 wa-193358-2; Hi ms + +
3 6 ms
4 29529.1 (100+)
5 30109.1
6 31693.1
7 .2 (2+)
8 30257.1
9 .2
10 .3
X 11 30558.1 -50 +
X 12 .2 (10+) -10 +
X 13 .3 -5 +
X 14 .4 -25 +
X 15 .5 (5+) -50 +
X 16 .6 -25 +
X 17 .7 (2+) -25 + -50 +
18 .8 -25 +
19 .9 -25 +
X 20 30257.4 ✓
21 .5
22 .6
23 .7
24 wa-193358-4; 30257.7 ms
25 wa-193358-3; 30257.7 bp

→ 02-16-31 pm

→ 02-34-22 pm

To Page No. ____

Witnessed & Understood by me, | Date | Invented by: | Date

Recorded by:

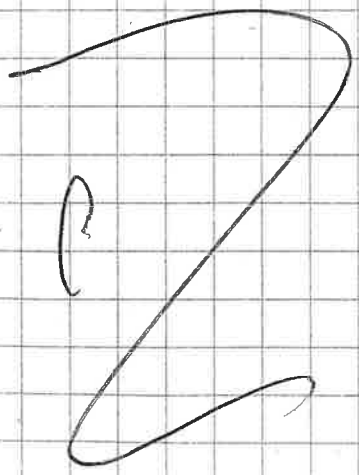
From Page No. ____

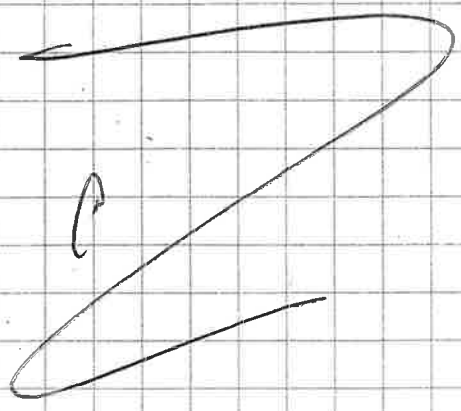
tf-E (02-51-51pm)
Prep 6/7/24 @1731

1	wh-931109-1 T- Blk 6/7 (931124)	
2	wh-931109-2 T; Hi wb T +	
3	lo wb T	
4	26947-1 T	
5	wh-931109-4 T- 26947-1 ms	
6	wh-931109-3 T; 26947-1 bp	
7	26947-5 T (10 +)	
8	.4 T (100 +)	
9	.5 T (20 +)	
10	.6 T -	
11	.7 T -	
12	30085-1 T	
13	30087-1 T	
14	.2 T	
15	30264-1 T	
16	30262-1 T (2 +)	
17	.2 T	
18	30265-1 T -5 +	
19	.2 T	
20	26947-2 T	

tf-F (04-14-45pm)
Prep 6/6/24 @1632

1	wh-931538-1- Blk 6/6 Soil	(1.0484)
2	wh-931538-2; Hi wb Soil-T +	(1.0715)
3	lo wb Soil	(1.0335)
4	30618-1	(0.5061)
5	.2	(1.0227)
6	.3	(1.0168)
7	.4	(1.0739)
8	.5	(1.0564)
9	.6	(0.5854)
10	.7	(1.1229)
11	.8	(1.0449) Bad Soil
12	.9	(1.2923)
13	.10	(1.1539)
14	.11	(1.1711)
15	.12	(1.0282)
16	.13	(1.0011)
17	.14	(1.1081)
18	.15	(1.0009)
19	.16	(1.0057)
20	.17	(1.1643)
21	wh-931538-4; 30618-17 ms	(1.0773)
22	wh-931538-3; 30618-17 bp	(1.0864)





To Page No

Witnessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

tg-G (04:53-26pm)
pg 6/8/24 @1658

1 WL-931645-1; Blk 6/8
2 WL-931645-2; Hi wg + +
3 Low
4 30144-1 -10 +
5 WL-931645-4; 30144.1 ms -10 +
6 WL-931645-3; 30144.1 fg -10 +
7 29014-1
8 30524-1 (2+)
9 -2
10 30725-1
11 30573-1
12 30620-2
13 30695-2
14 30716-1 (5+)
15 -2 -10 +
16 30738-2
17 30743-1 (2+)
18 -2
19 30746-1
20 30725-2
21 30902-1
22 30873-2 (2+)
23 30847-1
24 -2
25 30725-3

tg-H (05:41-53pm)
pg 6/8/24 @2237

1 WL-931643-1; Blk 6/8
2 WL-931643-2; Hi wg + +
3 Low
4 30741-1
5 -2
6 WL-931643-4; 30741.2 ms
7 WL-931643-3; 30741.2 fg
8 30780-1
9 -2
10 -3
11 -4
12 -5
13 -6
14 30897-1
15 -2
16 -3
17 -4
18 -5
19 -6
20 -7
21 WL-931643-6; 30897.7 ms
22 WL-931643-5; 30897.7 fg
23 30897-8
24 -9
25 -10
26 -11
27 -12

To Page No. ____

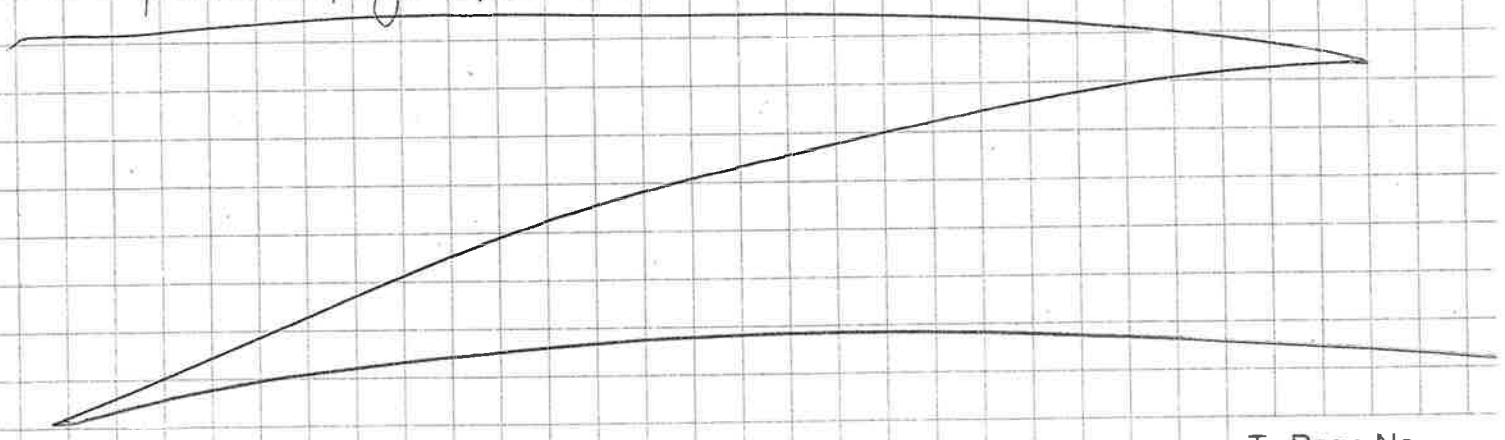
Sample Preparation

WG1931426

SAMPLES	VOL(mL)	DILUTIONS	FINAL VOL(mL)
BLANK	50	1x	150
LOW			
HIGH			
L2430219-01			
-02			
-03		2x(25↑50) N=5.6	
-04PA		1x	
-04DUP			
-04MS			
-05			
-06			
-07			
-08			
-09			
0227-01		5x(10↑50) INF	
-02		5x(10↑50) N=13.5	
0471-01		1x	
0472-01			
1693-01		2x(25↑50) INF	
-02			

Same standards + reagents as previous page #22

06/07/24 @ 22:55 CLD



Witnessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

Ammonia Analysis

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 20:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240606-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.980	0.075	0.024	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 20:56
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240606-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.046	0.075	0.024	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 20:57
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240606-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	ND	0.075	0.024	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 20:58
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240606-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.024	0.075	0.024	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 21:04
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240606-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.193	0.075	0.024	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 21:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240606-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	2.20	0.075	0.024	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 21:06
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240606-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.061	0.075	0.024	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 21:07
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240606-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	ND	0.075	0.024	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 21:08
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240606-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	ND	0.075	0.024	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1930802-1	**Date Collected**	: NA
Client ID	: WG1930802-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/06/24 20:38
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240606-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	ND	0.075	0.024	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1930802-3	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4DDUP	**Date Received**	: 05/31/24
Sample Location	:	**Date Analyzed**	: 06/06/24 20:59
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240606-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	ND	0.075	0.024	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1930802-5	**Date Collected**	: 05/15/24 12:15
Client ID	: WG1930802-5 DUP	**Date Received**	: 05/15/24
Sample Location	:	**Date Analyzed**	: 06/06/24 20:43
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240606-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.241	0.075	0.024	

Sample Raw Data

Author: A1WETCHEMINSTRUMENT

Date : 6/6/2024

Original Run Filename: OM_6-6-2024_09-00-04AM.OMN Created: 6/6/2024 9:00:04 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-6-2024_09-00-04AM.OMN Last Modified: 6/6/2024 9:46:18 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	TRAY A
STD 1	1	S1	10.00000				
STD 2	1	S2	8.00000				
STD 3	1	S3	4.00000				
STD 4	1	S4	2.00000				
STD 5	1	S5	1.00000				
STD 6	1	S6	0.40000				
STD 7	1	S7	0.20000				
STD 8	1	S8	0.10000				
STD 9	1	S9	0.05000				
STD 10	1	S10	0.00000				
CCV 0.4000	1	S6	0.38627				97%
	Known Conc:		100.00000				
	Calibration:		Table/Fig. : 1				
CCV 4.0000	1	S3	3.88921				97%
	Known Conc:		100.00000				
CCB	1	S10	0.01883				
	Known Conc:		100.00000				
HI ICV 8.0	1	1	8.22606				103%
LO ICV 1.0	1	2	1.02975				103%
ICB	1	3	0.00795				
WG1930218-1	1	4	0.01540		1.50		
WG1930218-2	1	5	18.48108		7.50		92%
LCS LO	1	6	1.95212		1.50		98%
L2429719-01	1	7	3.02953		1.50		
L2429719-02	1	8	0.11552		1.50		
L2429719-03	1	9	0.04538		1.50		
L2429719-04	1	10	2.99997		1.50		
CCV 0.4000	1	S6	0.44023				110%
	Known Conc:		100.00000				
CCV 4.0000	1	S3	3.93021				98%
	Known Conc:		100.00000				
CCB	1	S10	0.02243				
	Known Conc:		100.00000				
L2429719-05	1	11	0.00708		1.50		
L2429719-06	1	12	0.02408		1.50		
L2429719-07	1	13	0.02400		1.50		
L2429929-01	1	14	0.01176		1.50		
L2429929-02	1	15	0.01800		1.50		
L2429929-03	1	16	0.04273		1.50		
L2430038-01	1	17	-0.00620		1.50		
WG1930218-4	1	18	4.21579		1.50		105%
WG1930218-3	1	19	0.14893		1.50		RPD=NC
L2430038-02	1	20	0.01813		1.50		
CCV 0.4000	1	S6	0.38295				96%
	Known Conc:		100.00000				
CCV 4.0000	1	S3	3.93074				98%
	Known Conc:		100.00000				
CCB	1	S10	0.02333				
	Known Conc:		100.00000				
L2430038-03	1	21	0.01834		1.50		
L2430038-04	1	22	0.03811		1.50		
CCV 0.4000	1	S6	0.38060				95%
	Known Conc:		100.00000				
CCV 4.0000	1	S3	3.91177				98%
	Known Conc:		100.00000				
CCB	1	S10	0.01995				
	Known Conc:		100.00000				

Author: A1WETCHEMINSTRUMENT

Date : 6/6/2024

Channel 2 (Ammonia High) - Current View

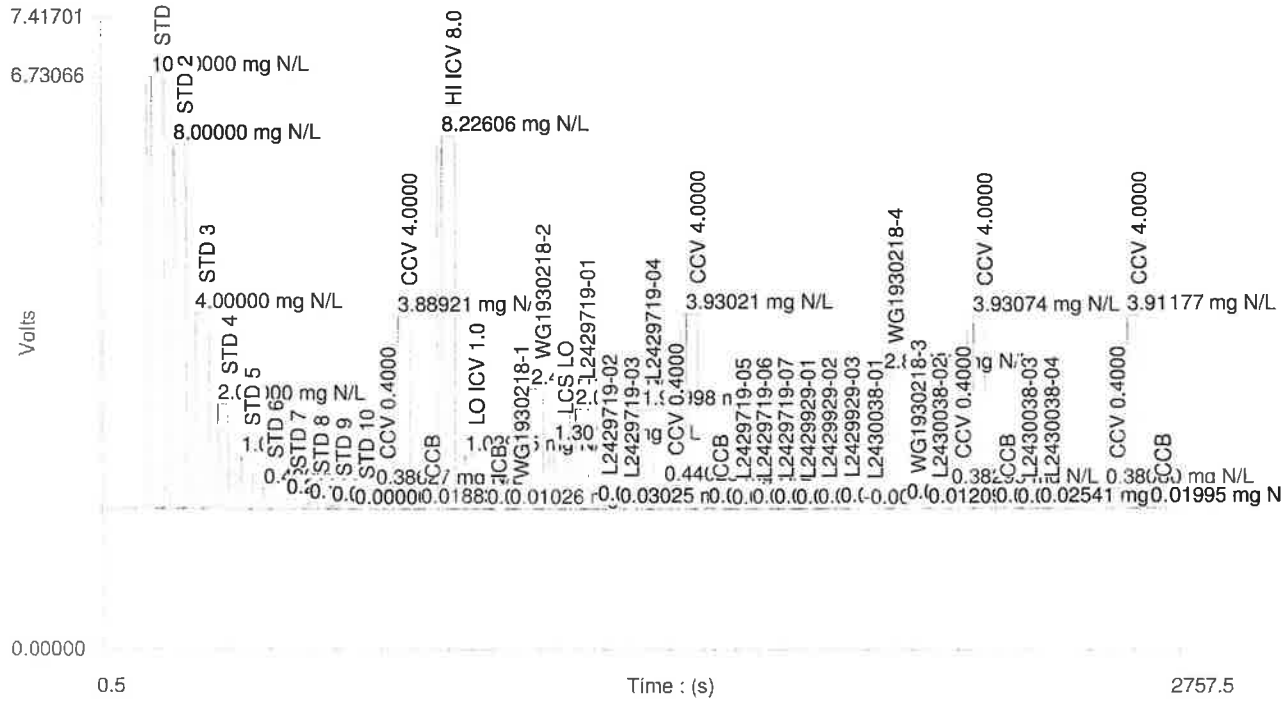


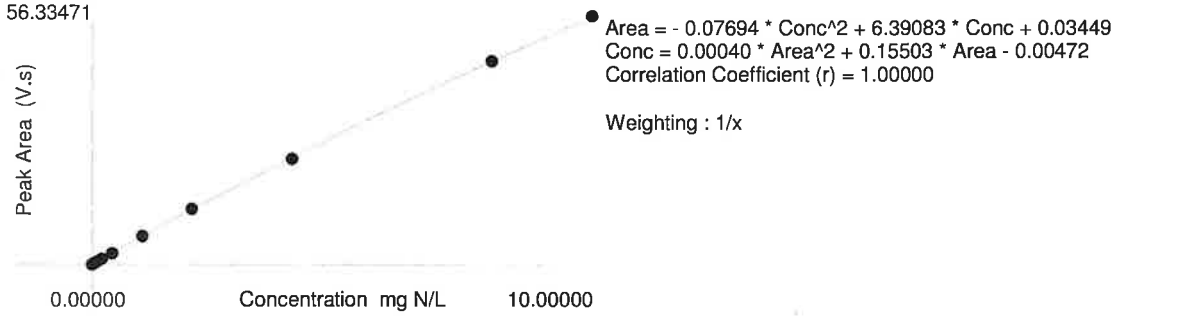
Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	56.33471	5.06630	0.0	-0.2	9.99800	6/6/2024	9:01:43 AM
2	8.00000	1	46.25028	4.26889	0.0	0.0	8.02092	6/6/2024	9:02:39 AM
3	4.00000	1	24.03478	2.29258	0.0	1.4	3.95243	6/6/2024	9:03:36 AM
4	2.00000	1	12.65210	1.22188	0.0	-1.1	2.02076	6/6/2024	9:04:33 AM
5	1.00000	1	6.42587	0.61817	0.0	-1.2	1.00800	6/6/2024	9:05:31 AM
6	0.40000	1	2.56347	0.24416	0.0	0.6	0.39532	6/6/2024	9:06:29 AM
7	0.20000	1	1.29665	0.12244	0.0	1.0	0.19697	6/6/2024	9:07:27 AM
8	0.10000	1	0.69280	0.06433	0.0	-3.0	0.10287	6/6/2024	9:08:25 AM
9	0.05000	1	0.37305	0.03493	0.0	-5.4	0.05317	6/6/2024	9:09:22 AM
10	0.00000	1	0.00657	0.00201			-0.00371	6/6/2024	9:10:19 AM

Author: A1WETCHEMINSTRUMENT

Date : 6/6/2024

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

Date : 6/6/2024

Original Run Filename: OM_6-6-2024_05-10-14PM.OMN Created: 6/6/2024 5:10:14 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-6-2024_05-10-14PM.OMN Last Modified: 6/6/2024 5:46:21 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.37306	93%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.04785	101%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.01728			
	Known Conc:		100.00000			
WG1930333-1 T; BLK 6/6	1	1	0.01569			98%
WG1930333-2 T; HI LCS; 5X	1	2	39.35226		15.00	
LO LCS T	1	3	3.97356		3.00	99%
L2429979-03 T	1	4	15.01977		6.00	
L2429979-04 T	1	5	1.19530		3.00	
WG1930333-4 T; 29979.4 MS	1	6	9.92541		3.00	105%
WG1930333-3 T; 29979.4 DUP	1	7	1.32186		3.00	105%
L2429979-05 T	1	8	0.16619		3.00	
L2429979-06 T	1	9	0.73542		3.00	
L2429911-01 T	1	10	1.07044		15.00	
CCV 0.4000	1	S6	0.39320	98%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.06210	102%		
	Known Conc:		100.00000			
CCB	1	S10	0.02295			
	Known Conc:		100.00000			
L2429910-01 T	1	11	0.09557		6.00	
L2429907-01 T	1	12	17.49642		3.00	
~~L2429913-01 T~~	~~1~~	~~13~~	~~34.04827~~		~~3.00~~	wholebeam.
L2426947-01 T	1	14	5.75392		15.00	
L2426947-02 T	1	15	1.14341		15.00	
L2426947-03 T	1	16	1.64600		30.00	
L2426947-04 T	1	17	0.95567		30.00	
L2426947-05 T	1	18	4.16955		75.00	
L2426947-06 T	1	19	-0.06504		15.00	
L2426947-07 T	1	20	0.30484		15.00	
CCV 0.4000	1	S6	0.38733	97%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.06425	102%		
	Known Conc:		100.00000			
CCB	1	S10	0.02580			
	Known Conc:		100.00000			
L2429913-01 T; 10X	1	21	33.82272		30.00	
L2426947-01 T	1	22	1.46064		15.00	
CCV 0.4000	1	S6	0.39397	99%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.00773	100%		
	Known Conc:		100.00000			
CCB	1	S10	0.02661			
	Known Conc:		100.00000			

* 26947.1-7 - 1918

Author: A1WETCHEMINSTRUMENT

Date : 6/6/2024

Channel 2 (Ammonia High) - Current View

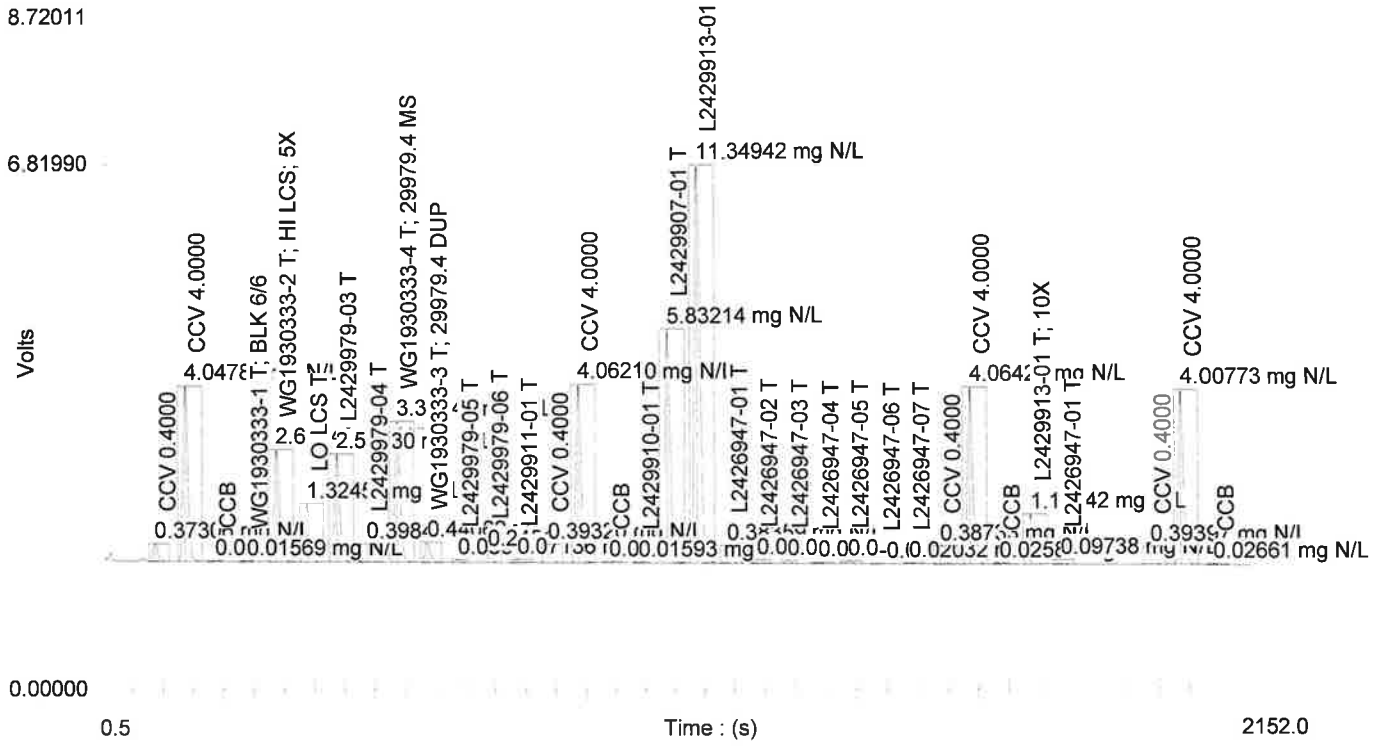
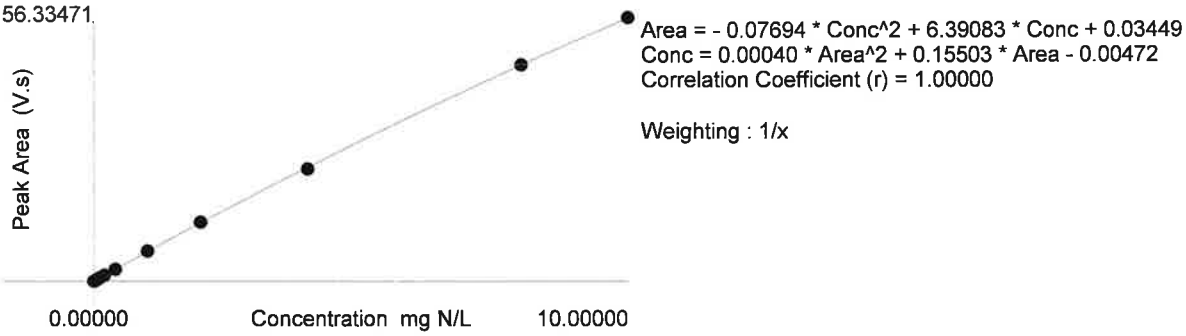


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	56.33471	5.06630	0.0	-0.2	9.99800	6/6/2024	9:01:43 AM
2	8.00000	1	46.25028	4.26889	0.0	0.0	8.02092	6/6/2024	9:02:39 AM
3	4.00000	1	24.03478	2.29258	0.0	1.4	3.95243	6/6/2024	9:03:36 AM
4	2.00000	1	12.65210	1.22188	0.0	-1.1	2.02076	6/6/2024	9:04:33 AM
5	1.00000	1	6.42587	0.61817	0.0	-1.2	1.00800	6/6/2024	9:05:31 AM
6	0.40000	1	2.56347	0.24416	0.0	0.6	0.39532	6/6/2024	9:06:29 AM
7	0.20000	1	1.29665	0.12244	0.0	1.0	0.19697	6/6/2024	9:07:27 AM
8	0.10000	1	0.69280	0.06433	0.0	-3.0	0.10287	6/6/2024	9:08:25 AM
9	0.05000	1	0.37305	0.03493	0.0	-5.4	0.05317	6/6/2024	9:09:22 AM
10	0.00000	1	0.00657	0.00201			-0.00371	6/6/2024	9:10:19 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

Date : 6/6/2024

Original Run Filename: OM_6-6-2024_08-34-55PM.OMN Created: 6/6/2024 8:34:55 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-6-2024_08-34-55PM.OMN Last Modified: 6/6/2024 9:15:45 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

E

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.36815	92%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1	99%		
CCV 4.0000	1	S3	3.94383			
	Known Conc:		100.00000			
CCB	1	S10	0.01710 ✓			
	Known Conc:		100.00000			
WG1930802-1; BLK 6/6	1	1	-0.00438		1.50	
WG1930802-2; HI LCS; 5X	1	2	18.80677		7.50	94%
LO LCS	1	3	1.83632		1.50	92%
L2426845-01	1	4	0.15872 ✓		1.50	
WG1930802-6; 26845.1 MS	1	5	4.31138		1.50	104%
WG1930802-5; 26845.1 DUP	1	6	0.24115 ~		1.50	41% (CT+RL)
L2426845-02	1	7	0.06511		1.50	
L2428326-01	1	8	3.09750		3.00	
L2428326-02	1	9	5.65182		1.50	
~~L2429979-05~~	~~1~~	~~10~~	~~0.22018~~		~~1.50~~	reinject.
CCV 0.4000	1	S6	0.38120	95%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.95648	99%		
	Known Conc:		100.00000			
CCB	1	S10	0.02820 ✓			
	Known Conc:		100.00000			
L2429979-01	1	11	0.06090		1.50	
L2429979-02	1	12	10.36289		1.50	
L2429979-03	1	13	14.67501		3.00	
L2429979-04	1	14	0.86611		1.50	
L2429979-06	1	15	0.62928		1.50	
L2430219-01	1	16	0.98054		1.50	
L2430219-02	1	17	0.04658		1.50	
L2430219-03	1	18	0.01908		1.50	
L2430219-04	1	19	0.02418 ~		1.50	VC
WG1930802-3; 30219.4 DUP	1	20	0.01216 ~		1.50	
CCV 0.4000	1	S6	0.37246	93%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.93885	99%		
	Known Conc:		100.00000			
CCB	1	S10	0.02844 ✓			
	Known Conc:		100.00000			
WG1930802-4; 30219.4 MS	1	21	4.06494		1.50	102%
L2430219-05	1	22	0.19326		1.50	
L2430219-06	1	23	2.19755		1.50	
L2430219-07	1	24	0.06153		1.50	
L2430219-08	1	25	0.00955		1.50	
L2430219-09	1	26	-0.00020		1.50	
L2429979-05	1	27	0.02357		1.50	
CCV 0.4000	1	S6	0.36918	92%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.93578	99%		
	Known Conc:		100.00000			
CCB	1	S10	0.02875 ✓			
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 6/6/2024

Channel 2 (Ammonia High) - Current View

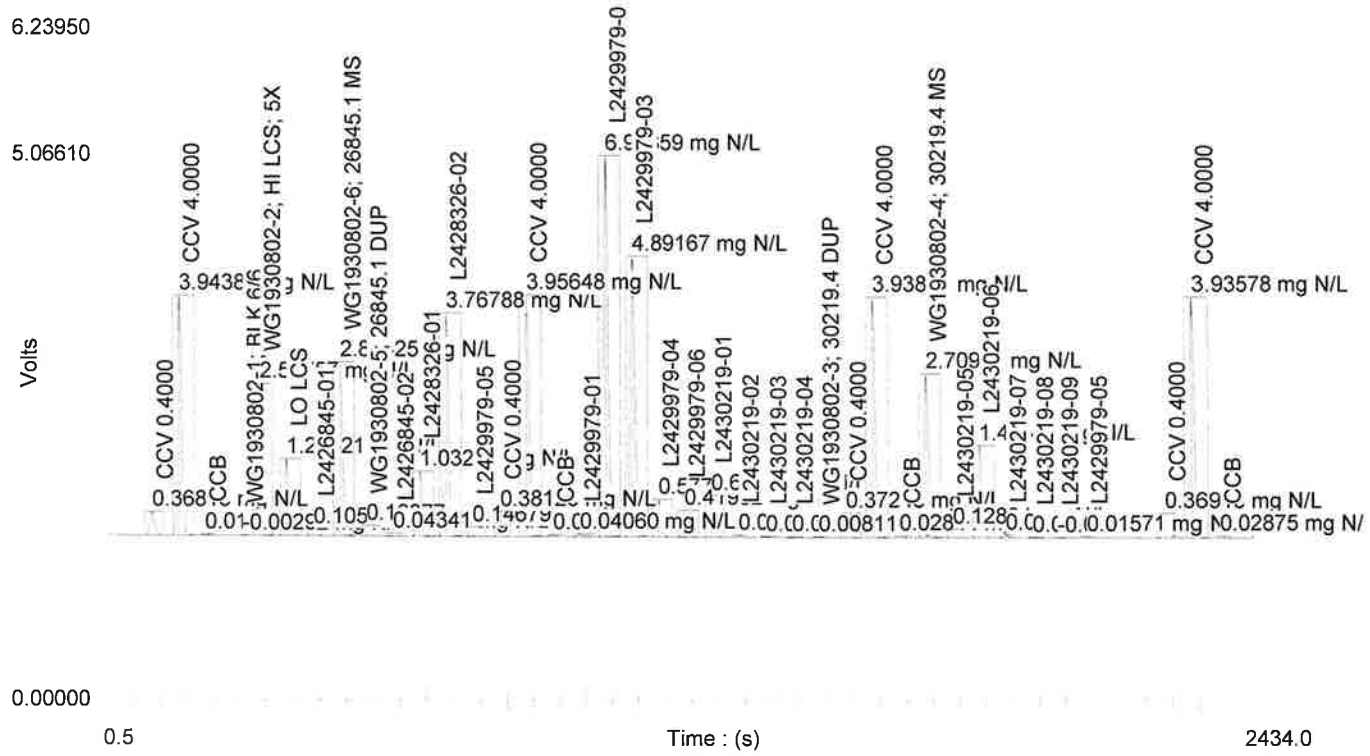
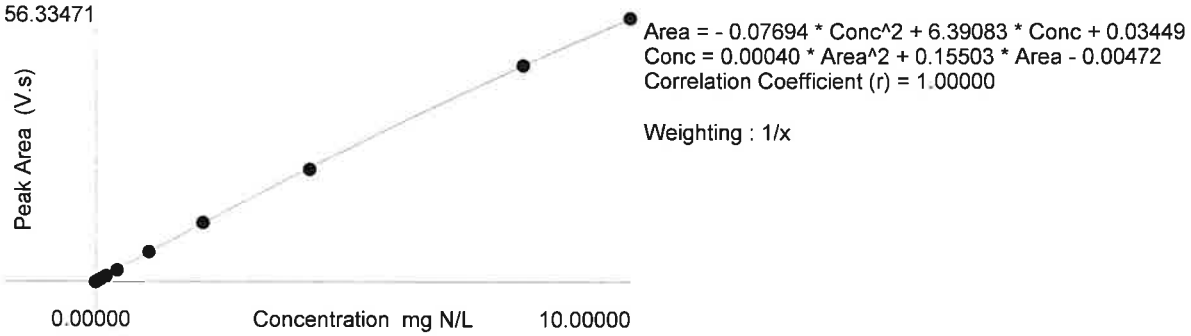


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	56.33471	5.06630	0.0	-0.2	9.99800	6/6/2024	9:01:43 AM
2	8.00000	1	46.25028	4.26889	0.0	0.0	8.02092	6/6/2024	9:02:39 AM
3	4.00000	1	24.03478	2.29258	0.0	1.4	3.95243	6/6/2024	9:03:36 AM
4	2.00000	1	12.65210	1.22188	0.0	-1.1	2.02076	6/6/2024	9:04:33 AM
5	1.00000	1	6.42587	0.61817	0.0	-1.2	1.00800	6/6/2024	9:05:31 AM
6	0.40000	1	2.56347	0.24416	0.0	0.6	0.39532	6/6/2024	9:06:29 AM
7	0.20000	1	1.29665	0.12244	0.0	1.0	0.19697	6/6/2024	9:07:27 AM
8	0.10000	1	0.69280	0.06433	0.0	-3.0	0.10287	6/6/2024	9:08:25 AM
9	0.05000	1	0.37305	0.03493	0.0	-5.4	0.05317	6/6/2024	9:09:22 AM
10	0.00000	1	0.00657	0.00201			-0.00371	6/6/2024	9:10:19 AM

Figure : 1 (Ammonia)



Quality Control

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix**	: WATER
Lab Sample ID	: L2430219-04		
Matrix Spike	: WG1930802-4	**MS Analysis Date**	: 06/06/24 21:03
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Nitrogen, Ammonia	0.024J	4	4.06	102					90-110	20

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2426845-01		
Matrix Spike	: WG1930802-6	**MS Analysis Date**	: 06/06/24 20:42
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Nitrogen, Ammonia	0.159	4	4.31	104					90-110	20

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix**	: WATER
Lab Sample ID	: L2430219-04	**Analysis Date**	: 06/06/24 20:58
Dup Sample ID	: WG1930802-3	**DUP Analysis Date**	: 06/06/24 20:59

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Ammonia	0.024J	ND	NC	20

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 06/06/24 20:41
Dup Sample ID	: WG1930802-5	**DUP Analysis Date**	: 06/06/24 20:43

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Ammonia	0.159	0.241	41 Q	20

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1930802-2	**LCS Analysis Date**	: 06/06/24 20:39
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Nitrogen, Ammonia	20.0	18.8	94.					90-110	20

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Ammonia	7664-41-7	0.075	0.024	mg/l	80-120	20	80-120	20	20	4500NH3-BH	28 days	1 - Plastic 500ml H2SO4 preserved
Nitrogen, Ammonia	7664-41-7	0.075	0.024	mg/l	90-110	20	90-110	20	20	350.1	28 days	1 - Plastic 500ml H2SO4 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Ammonia	7664-41-7	7.5	2.79	mg/kg	83-115	20	55-144	20	20	4500NH3-BH	28 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Nitrogen in Ammonia

Aqueous samples:

Compute sample NH_3 –N concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

If the sample has a concentration of less than 2ppm, calculate results by using the low curve generated on Channel 1.

If the sample concentration is greater than 2ppm, calculate the results by using the high curve generated on Channel 2.

To Compute the final results for aqueous samples, multiply the direct reading by the dilution factor based on the initial preparation volume. (also done using software)

NH_3-N mg/L = mg/L direct reading x dilution factor

Sequence Logs

Project No. _____

dential Book No. _____ TITLE NH3 6/6/24 KTP

Page No. ___

Tray A(09-00-04AM)
prep 6/5/24 @17:04

Hi ICV 8.0
Lo ICV 1.0
ICB
WG1930218-1, Blk
-2, LCS Hi, 5x
LCS Lo
29719-01
02
03
04
05
06
07
29929-01
02
03
30038 01
01 MS
01 Dup
02
03
04

Tray B(09-56-36AM)
prep 6/5/24 @17:18

1 WG1930213-1, Blk
2 -2, LCS Hi, 5x
3 LCS Lo
4 26523-01
5 02
6 03
7 04
8 04 MS
9 04 Dup
10 05
11 26947 01
12 01 MS
13 01 Dup
14 02
15 03 (2x)
16 04
17 05
18 06
19 07

ate: 6/6/24
odium Phenolate: 5/27/24 R-4065
odium Hypochlorate: 5/27/24 stop'shop
odium Nitropruisside: 5/27/24 R-3969
orric Acid Soln.: 5/27/24 R-4076
CV 1.0:
CV 8.0: 6/4/24 WC-3433
al. Std: 6/4/24 WC-3392
ee Front Page for Instructions:

KTP

KTP

To Page No. ___

ssed & Understood by me, | Date | Invented by: | Date

Recorded by:

TITLE NH3 6/6/24 KEP cont.

Project No. _____

Book No. _____

Confiden

From Page No. ___

Tray C (01-08-37PM, 01-10-13PM)
prep 6/6/24 @ 00:28

1	WG1930331-1T. Blk
2	-2T, LCS H, 5x
3	LCS L 6T
4	26780-01T (5x)
5	02T
6	28326-01T (2x)
7	02T
8	29580-01T (2x)
9	29801-01T
10	01T Dup
11	01T MS
12	29883-01T (2x)
13	02T
⊗ 14	29936-01T; 20x 0.5 TID
⊗ 15	29940-01T
16	29941-01T (10x)
⊗ 17	29943-01T; 20x 0.5 TID
⊗ 18	29946-01T
19	29949-01T

tgs-D (05-10-24 PM)
Pgs 6/6/24 @ 0012

1	WG1930333-1T, Blk 6/6 ~~1930334~~ 3, PS 0335
2	WG1930333-2T, Hi WS TP
3	WS T
4	29979.3 T (2t)
5	4T
6	WG1930333-4T. 29979.4 MS
7	WG1930333-3T; 29979.4 Dup
8	29979.5 T
9	.6T
10	29911.1 T (5t)
11	29910.1 T (2t)
12	29907-1 T
X 13	29913.1 T -10 +
X 14	26947-1 T (5t)
15	.2 T (5t)
16	.3 T (10t)
17	.4 T (10t)
18	.5 T (2t)
19	.6 T (5t) > F.B
20	.7 T (5t)

(26947-1-7 - reg up Rob NO3)

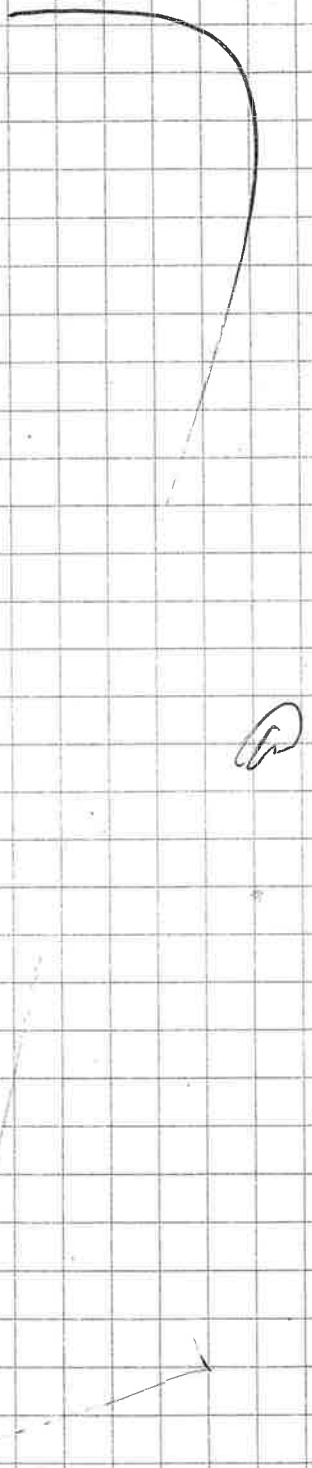
To Page No

Witnessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

From Page No. ____

fig. E, 10.3 (TPM)
PMS 6/6/24 @ 802

1 wb-930802-1; Bur 6/6
2 wb-930802-2; Hicks + +
3 6 44
4 26845.1
5 wb-930802-6; 26845.1 ms
6 wb-930802-5; 26845.1 Ng
7 26845.2
8 28326.1 (2+)
9
X 10 29979.5 -
11 .1
12 .2
13 .3 (2+)
14 .4
15 .6
16 30219.1
17 .2
18 .3
19 .4
20 wb-930802-3; 30219.4 Ng
21 wb-930802-4; 30219.4 ms
22 30219.5
23 .6
24 .7
25 .8
26 .9



To Page No. _

Sample Preparation

WG1930802

SAMPLES	VOL(mL)	DILUTIONS	INTOH	ADJOH	FINAL VOL(mL)
BLANK	100	1x	L2	~9.5	150
LOW					
HIGH					
L2426845-01PA					
-01DUP					
-01MS					
-02		2x(50↑100) INF			
8326-01		1x			
-02					
9979-01		2x(50↑100) matrix			
-02		1x			
-03					
-04					
-05					
-06					
30219-01					
-02					
-03					
-04PA					
-04DUP					
-04MS					
-05					
-06					
-07					
-08					
-09					

06/06/24 @ 18:02 CLD

NH3 PREP:

NH3-060424 -200PPM LCS
NH3-060524 -200PPM MS

NH3-052424 -NA2S2O3
NH3-060624 - B -BB
NH3-060624 - A -BA 1.5%
NH3-051124 -H2SO4 10%
NH3-052724 -NAOH 6N
NH3-052424 -NAOH 0.1N

To Page No.

Witness | Date | Invented by: | Date
Recorded by:

Nitrate and Nitrite Analysis

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 05:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240604-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.43	0.10	0.046	

Form 1
WETCHEM

Client	:	**Alpha Geoscience**	**Lab Number**	:	**L2430219**
Project Name	:	**HUNTINGTON READY MIXED**	**Project Number**	:	**20116**
Lab ID	:	**L2430219-02**	**Date Collected**	:	**05/30/24 11:30**
Client ID	:	**MW-2S**	**Date Received**	:	**05/31/24**
Sample Location	:	**SPEONK, NY**	**Date Analyzed**	:	**06/04/24 05:31**
Sample Matrix	:	**WATER**	**Dilution Factor**	:	**1**
Analytical Method	:	**121,4500NO3-F**	**Analyst**	:	**KAF**
Lab File ID	:	**NO3240604-A1**	**Instrument ID**	:	**LACHAT**
Sample Amount	:		**%Solids**	:	**N/A**
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Nitrogen, Nitrate/Nitrite**	**1.3**	**0.10**	**0.046**	

Form 1
WETCHEM

Client	:	**Alpha Geoscience**	**Lab Number**	:	**L2430219**
Project Name	:	**HUNTINGTON READY MIXED**	**Project Number**	:	**20116**
Lab ID	:	**L2430219-03**	**Date Collected**	:	**05/30/24 10:07**
Client ID	:	**MW-3S**	**Date Received**	:	**05/31/24**
Sample Location	:	**SPEONK, NY**	**Date Analyzed**	:	**06/04/24 05:32**
Sample Matrix	:	**WATER**	**Dilution Factor**	:	**1**
Analytical Method	:	**121,4500NO3-F**	**Analyst**	:	**KAF**
Lab File ID	:	**NO3240604-A1**	**Instrument ID**	:	**LACHAT**
Sample Amount	:		**%Solids**	:	**N/A**
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Nitrogen, Nitrate/Nitrite**	**5.6**	**0.10**	**0.046**	

Form 1
WETCHEM

Client	:	**Alpha Geoscience**	**Lab Number**	:	**L2430219**
Project Name	:	**HUNTINGTON READY MIXED**	**Project Number**	:	**20116**
Lab ID	:	**L2430219-04**	**Date Collected**	:	**05/30/24 13:45**
Client ID	:	**MW-4D**	**Date Received**	:	**05/31/24**
Sample Location	:	**SPEONK, NY**	**Date Analyzed**	:	**06/04/24 05:33**
Sample Matrix	:	**WATER**	**Dilution Factor**	:	**1**
Analytical Method	:	**121,4500NO3-F**	**Analyst**	:	**KAF**
Lab File ID	:	**NO3240604-A1**	**Instrument ID**	:	**LACHAT**
Sample Amount	:		**%Solids**	:	**N/A**
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Nitrogen, Nitrate/Nitrite**	**0.56**	**0.10**	**0.046**	

Form 1
WETCHEM

Client	:	**Alpha Geoscience**	**Lab Number**	:	**L2430219**
Project Name	:	**HUNTINGTON READY MIXED**	**Project Number**	:	**20116**
Lab ID	:	**L2430219-05**	**Date Collected**	:	**05/30/24 14:28**
Client ID	:	**MW-5S**	**Date Received**	:	**05/31/24**
Sample Location	:	**SPEONK, NY**	**Date Analyzed**	:	**06/04/24 05:37**
Sample Matrix	:	**WATER**	**Dilution Factor**	:	**1**
Analytical Method	:	**121,4500NO3-F**	**Analyst**	:	**KAF**
Lab File ID	:	**NO3240604-A1**	**Instrument ID**	:	**LACHAT**
Sample Amount	:		**%Solids**	:	**N/A**
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Nitrogen, Nitrate/Nitrite**	**1.5**	**0.10**	**0.046**	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 05:38
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240604-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.67	0.10	0.046	

Form 1
WETCHEM

Client	:	**Alpha Geoscience**	**Lab Number**	:	**L2430219**
Project Name	:	**HUNTINGTON READY MIXED**	**Project Number**	:	**20116**
Lab ID	:	**L2430219-07**	**Date Collected**	:	**05/30/24 11:00**
Client ID	:	**MW-7S**	**Date Received**	:	**05/31/24**
Sample Location	:	**SPEONK, NY**	**Date Analyzed**	:	**06/04/24 05:44**
Sample Matrix	:	**WATER**	**Dilution Factor**	:	**1**
Analytical Method	:	**121,4500NO3-F**	**Analyst**	:	**KAF**
Lab File ID	:	**NO3240604-A1**	**Instrument ID**	:	**LACHAT**
Sample Amount	:		**%Solids**	:	**N/A**
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Nitrogen, Nitrate/Nitrite**	**4.0**	**0.10**	**0.046**	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 05:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240604-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.60	0.10	0.046	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 05:46
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240604-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.60	0.10	0.046	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1929181-1	**Date Collected**	: NA
Client ID	: WG1929181-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/04/24 03:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240604-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	ND	0.10	0.046	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1929181-3	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4DDUP	**Date Received**	: 05/31/24
Sample Location	:	**Date Analyzed**	: 06/04/24 05:35
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240604-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.55	0.10	0.05	

Sample Raw Data

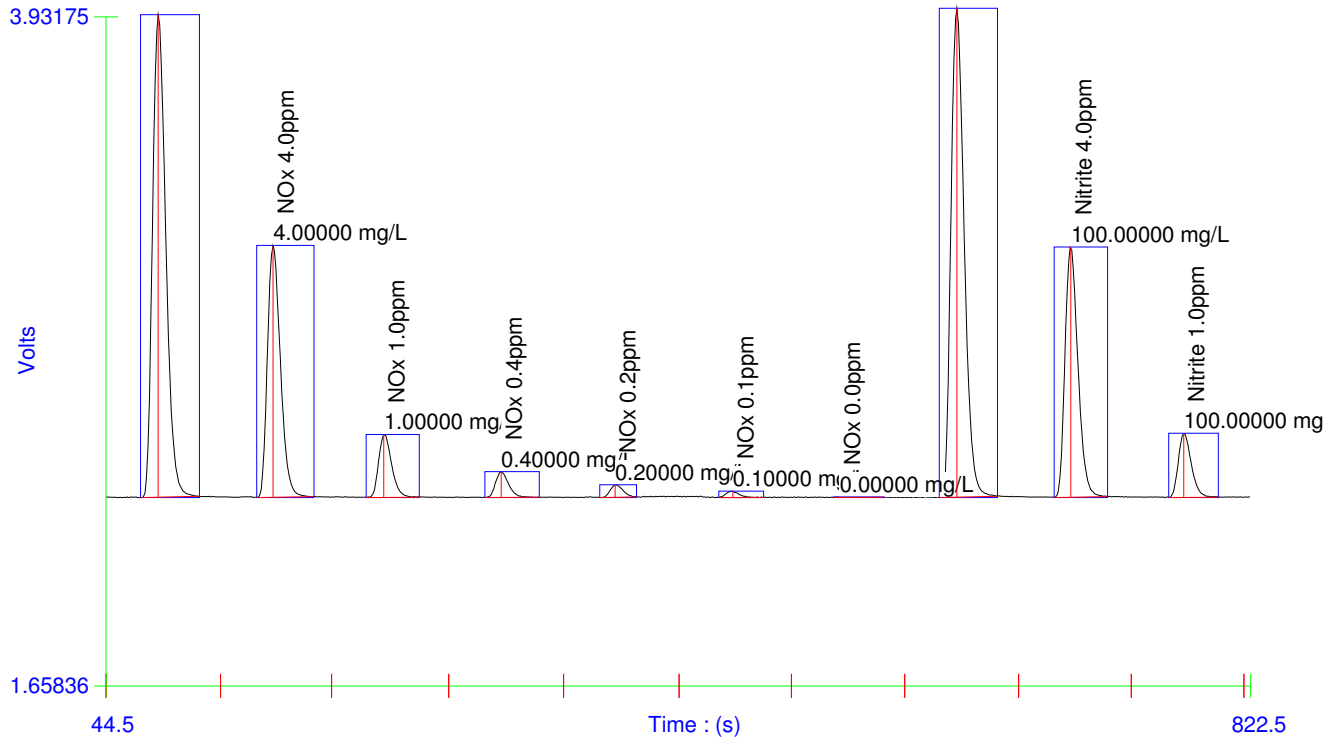
Original Run Filename: OM_6-4-2024_02-46-17AM.OMN Created: 6/4/2024 2:46:17 AM
Original Run Author's Signature: [A1wetcheminstrument]
Current Run Filename: OM_6-4-2024_02-46-17AM.OMN Last Modified: 6/4/2024 5:53:17 AM
Current Run Author's Signature: [A1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 NO3+NO2 (mg/L)	Channel 2 Nitrite (mg N/L)	ADF	MDF	Weight
NOx 8.0ppm	1	S3	8.00000	100.00000			
NOx 4.0ppm	1	S4	4.00000	100.00000			
NOx 1.0ppm	1	S2	1.00000	100.00000			
NOx 0.4ppm	1	S5	0.40000	100.00000			
NOx 0.2ppm	1	S6	0.20000	100.00000			
NOx 0.1ppm	1	S7	0.10000	100.00000			
NOx 0.0ppm	1	S1	0.00000	100.00000			
Nitrite 8.0ppm	1	S10	100.00000	8.00000			
Nitrite 4.0ppm	1	S11	100.00000	4.00000			
Nitrite 1.0ppm	1	S9	100.00000	1.00000			
Nitrite 0.4ppm	1	S12	100.00000	0.40000			
Nitrite 0.1ppm	1	S13	100.00000	0.10000			
Nitrite 0.05ppm	1	S14	100.00000	0.05000			
Nitrite 0.0ppm	1	S1	100.00000	0.00000			
CCV NO3	1	S2	1.01608	-0.00786			
	Known Conc:		1.00000	0.00000			
	Calibration:		Table/Fig. : 1	Table/Fig. : 2			
CCV NO2	1	S9	1.02840	1.06408			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00170	-0.00427			
	Known Conc:		0.00000	0.00000			
ICV NO3 5.0	1	1	5.26714	-0.00613			
ICV NO2 5.0	1	2	5.06627	5.12106			
ICV NO3 0.5	1	3	0.53091	-0.00736			
ICV NO2 0.5	1	4	0.49915	0.52722			
ICB	1	5	0.00600	-0.00731			
DILUTER CHK 8PPM	1	6	8.37567	-0.02267	5.00		
BLK NO3	1	7	-0.01047	-0.01546			
LCS NO3	1	8	5.27391	-0.00452			
BLK NO2	1	9	-0.01243	-0.00230			
LCS NO2	1	10	5.06547	5.12337			
CCV NO3	1	S2	1.02387	-0.00848			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.03717	1.06874			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	0.00744	-0.00914			
	Known Conc:		0.00000	0.00000			
WG1929173-1; NO2	1	11	-0.01866	-0.00417			
WG1929173-2; NO2	1	12	5.08311	5.08869			
WG1929174-1; NO2	1	13	-0.00393	-0.01079			
WG1929174-2; NO2	1	14	5.11314	5.15801			
WG1929176-1; NO3	1	15	-0.02868	-0.00988			
WG1929176-2; NO3	1	16	5.29780	-0.00651			
WG1929178-1; NO3	1	17	0.00306	-0.00516			
WG1929178-2; NO3	1	18	5.29818	-0.00533			
WG1929179/180-1; CNO3	1	19	-0.00259	-0.00764			
WG1929179/180-2; CNO3	1	20	5.29487	-0.00461			
CCV NO3	1	S2	1.02934	-0.00736			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.03518	1.07364			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	0.00865	-0.00136			
	Known Conc:		0.00000	0.00000			
WG1929181-1; CNO3	1	21	0.00096	-0.01149			
WG1929181-2; CNO3	1	22	5.29560	-0.00265			
L2430597-01J	1	23	0.22739	0.00231			
L2430597-02J	1	24	0.01339	0.00132			
L2430639-01C	1	25	0.35605	0.00271			
WG1929176-3; DUP NO3 639-01	1	26	0.34795	-0.00451			

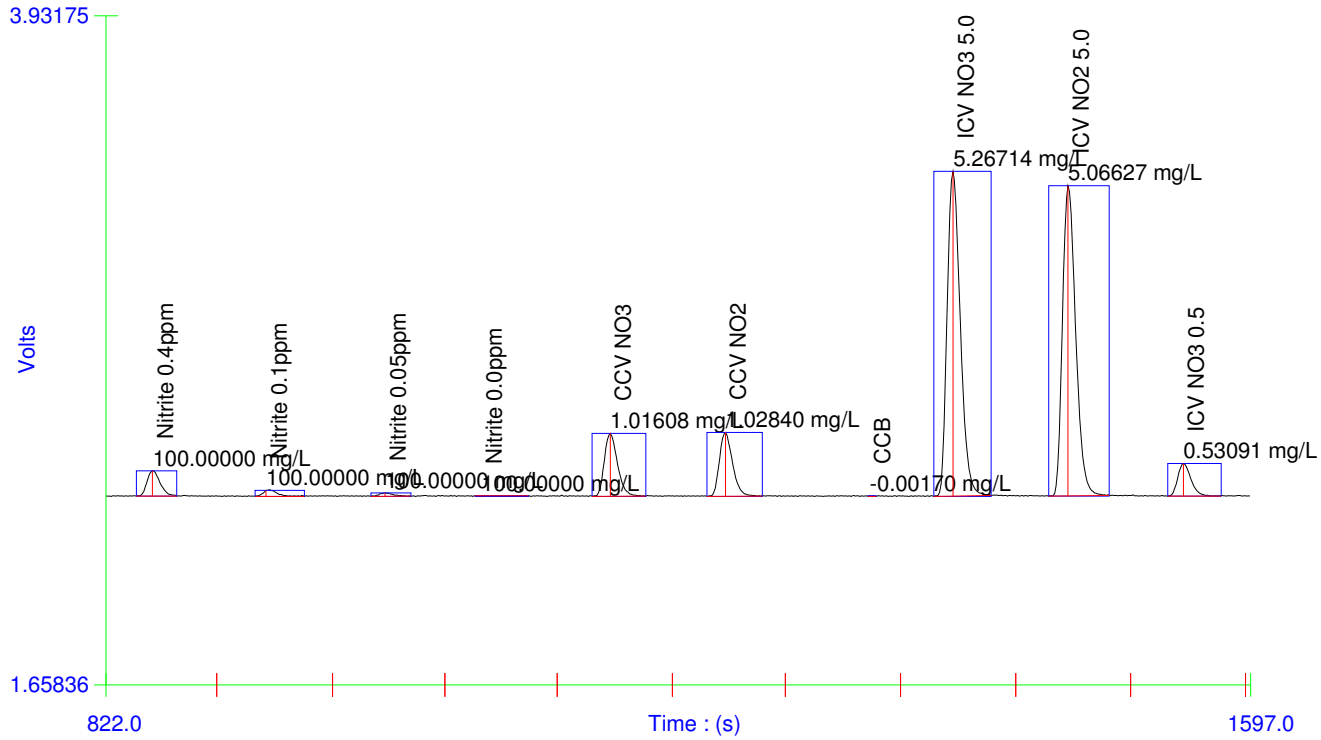
WG1929176-4; MS NO3 639-01	1	27	4.38833	0.00538			
WG1929173-3; DUP NO2 639-01	1	28	0.34826	-0.00494			
WG1929173-4; MS NO2 639-01	1	29	4.59454	4.28576			
L2430594-01H	1	30	0.23396	0.01862			
CCV NO3	1	S2	1.03075	-0.01043			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.04037	1.07333			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01011	-0.00886			
	Known Conc:		0.00000	0.00000			
L2430594-02H	1	31	0.05550	0.03225			
L2430594-03H	1	32	2.71370	0.00328			
L2430594-04H	1	33	2.71613	0.00442			
L2430594-05H	1	34	0.06034	0.02847			
L2430594-06H	1	35	1.38600	0.00443			
L2430594-07H	1	36	0.01887	0.00671			
L2430594-08H	1	37	0.05406	0.02402			
L2430594-09H	1	38	-0.03047	0.03323			
L2430659-01H	1	39	0.34673	0.00203			
L2430659-02H	1	40	0.48660	0.00454			
CCV NO3	1	S2	1.02861	-0.00398			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.04277	1.08265			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	0.00387	-0.00642			
	Known Conc:		0.00000	0.00000			
L2430594-09H	1	38	0.05150	0.02502			
L2430659-03O	1	41	1.59174	0.00835			
L2430659-04O	1	42	1.59503	0.00474			
L2430659-07M	1	43	-0.00654	0.00228			
WG1929178-3; DUP NO3 659-07	1	44	-0.01128	-8.38256e-5			
WG1929178-4; MS NO3 659-07	1	45	4.05960	0.00480			
WG1929174-3; DUP NO2 659-07	1	46	0.00240	-0.00321			
WG1929174-4; MS NO2 659-07	1	47	4.15344	4.27278			
L2430659-08N	1	48	0.06162	0.03593			
L2430659-09O	1	49	1.39655	0.00265			
CCV NO3	1	S2	1.03687	-0.00614			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.04163	1.07538			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00183	-0.00426			
	Known Conc:		0.00000	0.00000			
WG1929178-5; MS NO3 659-09	1	50	5.36519	0.00765			
WG1929174-5; MS NO2 659-09	1	51	5.61441	4.29775			
L2430659-10M	1	52	0.02084	0.00515			
L2429543-01C	1	53	0.33651	0.00328			
WG1929179-3; DUP CNO3 543-01	1	54	0.33829	-0.00964			
WG1929179-4; MS CNO3 543-01	1	55	4.46806	0.03773			
L2429550-01A	1	56	12.20540	0.07252			
L2429583-01E	1	57	9.15681	2.50424			
L2429665-01D	1	58	0.64693	0.00257			
L2429665-02D	1	59	1.76699	0.00292			
CCV NO3	1	S2	1.02891	-0.00470			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.04405	1.07783			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	0.01392	-0.00562			
	Known Conc:		0.00000	0.00000			
L2429550-01A	1	56	13.28871	0.04275	5.00		
L2429583-01E	1	57	9.63060	2.53423	5.00		
L2429665-01D	1	58	0.63828	0.00461			
L2429691-01A	1	60	0.19953	0.14846			
L2429726-01B	1	61	0.00463	0.00728			
L2429726-02B	1	62	0.04011	0.02105			
L2429801-01A	1	63	0.03973	0.00349			
L2429940-01Q	1	64	0.11169	0.06902			
L2429963-01F	1	65	0.08877	0.00243			
L2429963-02F1	1	66	0.36058	0.00478			

CCV NO3	1	S2	1.02520	-0.00182			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.04358	1.07102			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00706	-0.01000			
	Known Conc:		0.00000	0.00000			
WG1929180-3; DUP CNO3 963-02	1	67	0.35892	-0.00854			
WG1929180-4; MS CNO3 963-02	1	68	4.44786	-0.00191			
L2429963-03F	1	69	0.27049	0.00342			
L2429963-04F	1	70	0.20892	0.00574			
L2429963-05F	1	71	0.17270	0.00237			
L2429963-06F	1	72	0.23688	0.00202			
L2429963-07F	1	73	0.17205	0.00813			
L2429963-08F	1	74	0.26988	0.00428			
L2430363-01N	1	75	0.15981	0.00930			
L2430363-02O	1	76	0.20496	0.00655			
CCV NO3	1	S2	1.03125	-0.00354			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.03962	1.07286			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00973	-0.00663			
	Known Conc:		0.00000	0.00000			
L2430018-01A	1	77	1.41087	0.00775			
L2430088-02A	1	78	0.13336	0.00483			
L2430219-01R	1	79	0.42726	0.25248			
L2430219-02R	1	80	1.31016	0.00271			
L2430219-03R	1	81	5.62107	0.00384			
L2430219-04R	1	82	0.55958	0.00426			
WG1929181-3; DUP CNO3 219-04	1	83	0.54868	-0.00724			
WG1929181-4; MS CNO3 219-04	1	84	4.65134	-0.00524			
L2430219-05R	1	85	1.47305	0.00404			
L2430219-06R	1	86	0.66786	0.00273			
CCV NO3	1	S2	1.03311	-0.00432			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.04006	1.07112			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00602	-0.00443			
	Known Conc:		0.00000	0.00000			
L2430219-07R	1	87	4.03484	0.00843			
L2430219-08R	1	88	0.59722	0.06135			
L2430219-09R	1	89	0.60487	0.06199			
CCV NO3	1	S2	1.02585	-0.00381			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.03629	1.07559			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00589	-0.00708			
	Known Conc:		0.00000	0.00000			

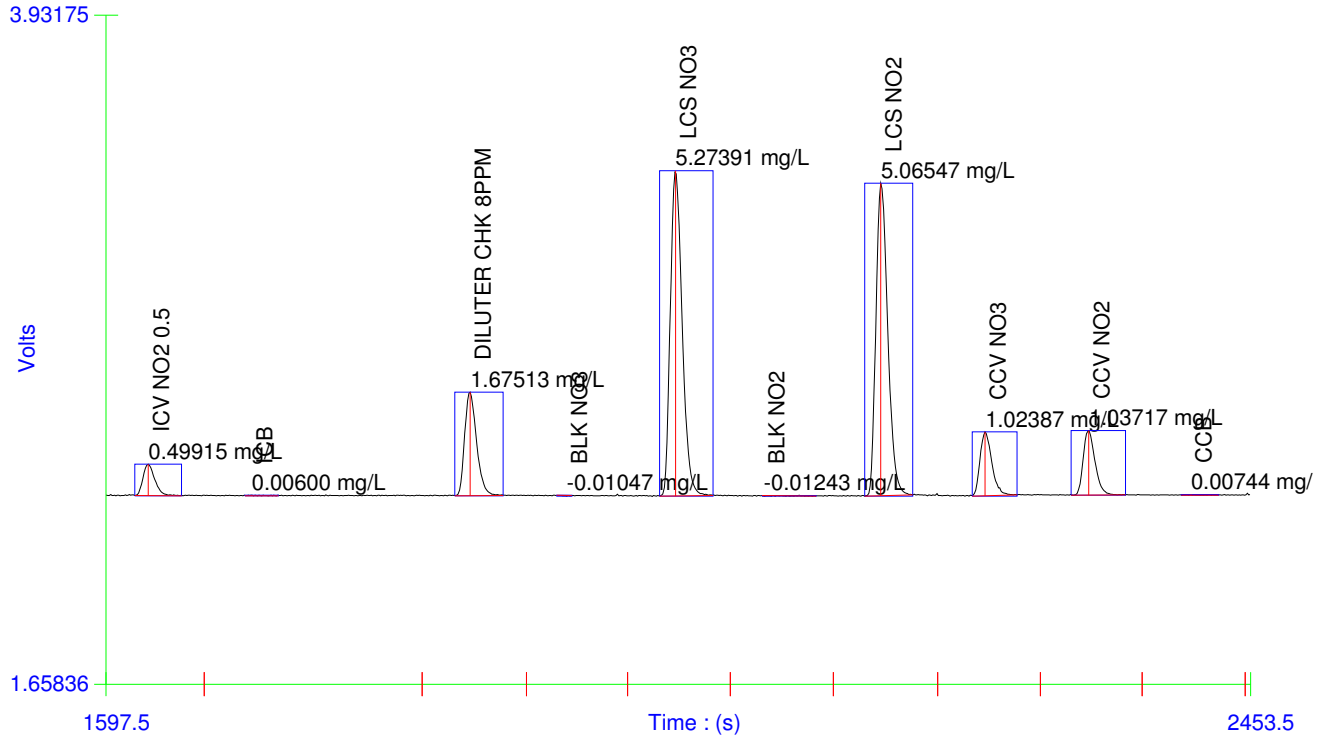
Channel 1 (NO3+NO2) - Set: 1 / 14



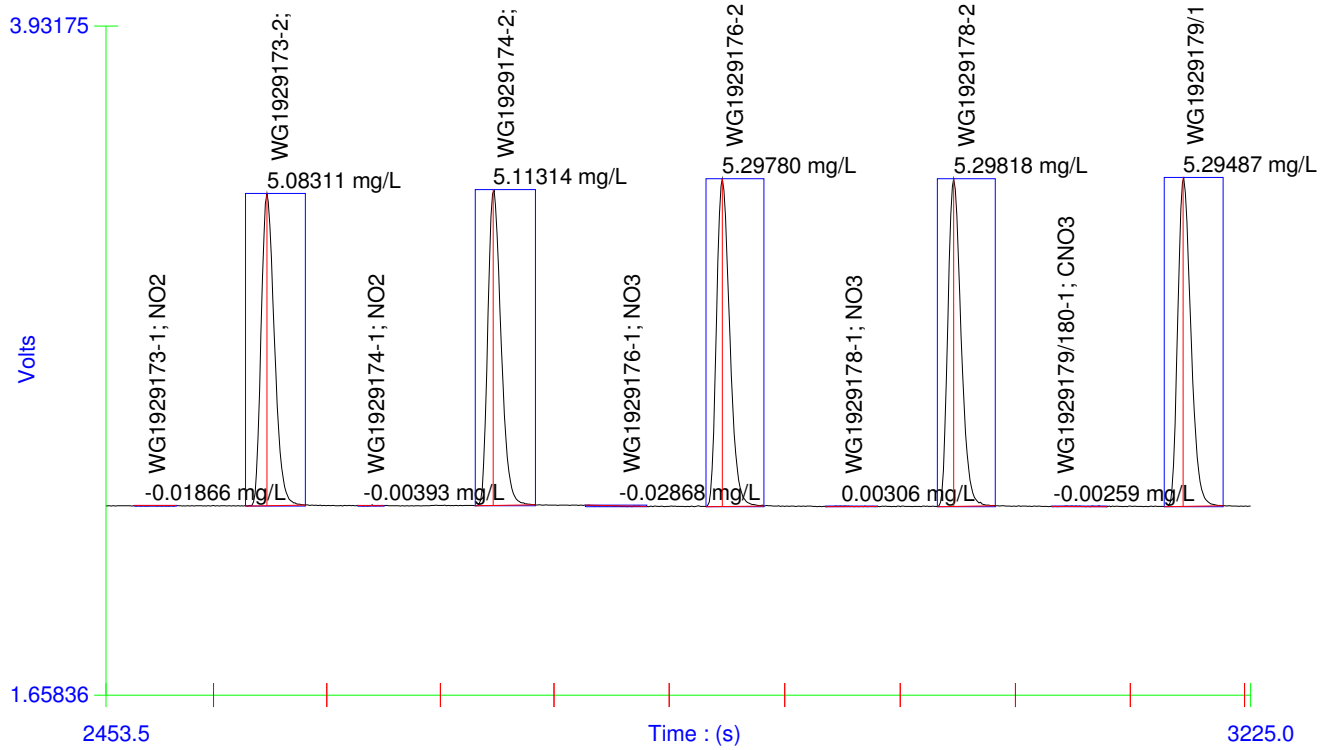
Channel 1 (NO3+NO2) - Set: 2 / 14



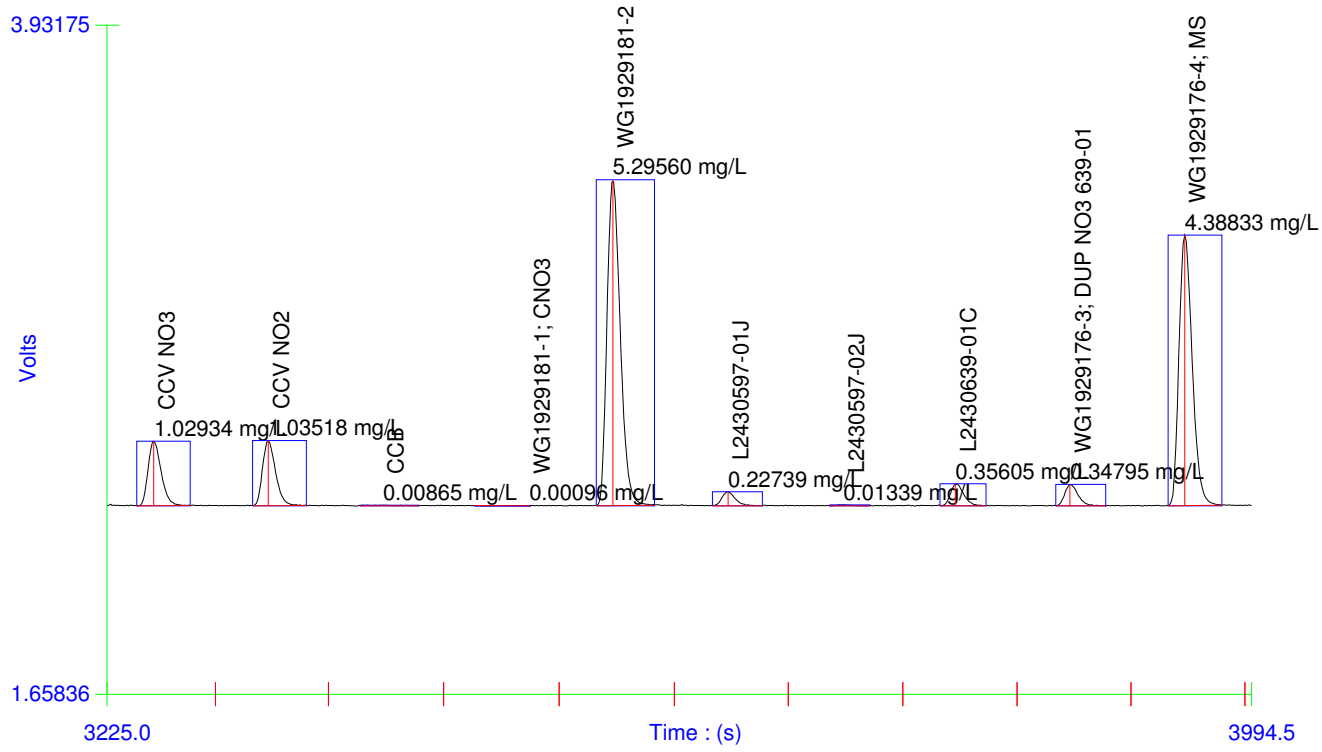
Channel 1 (NO3+NO2) - Set: 3 / 14



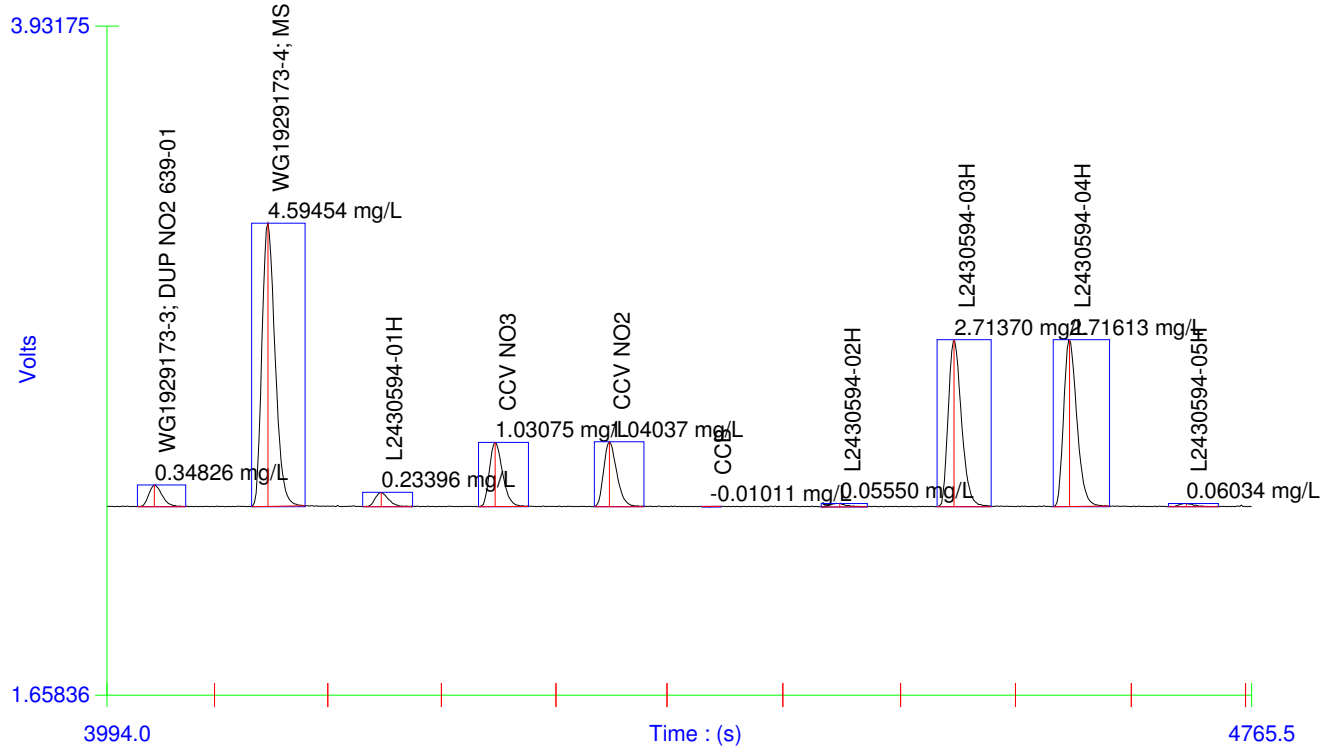
Channel 1 (NO3+NO2) - Set: 4 / 14



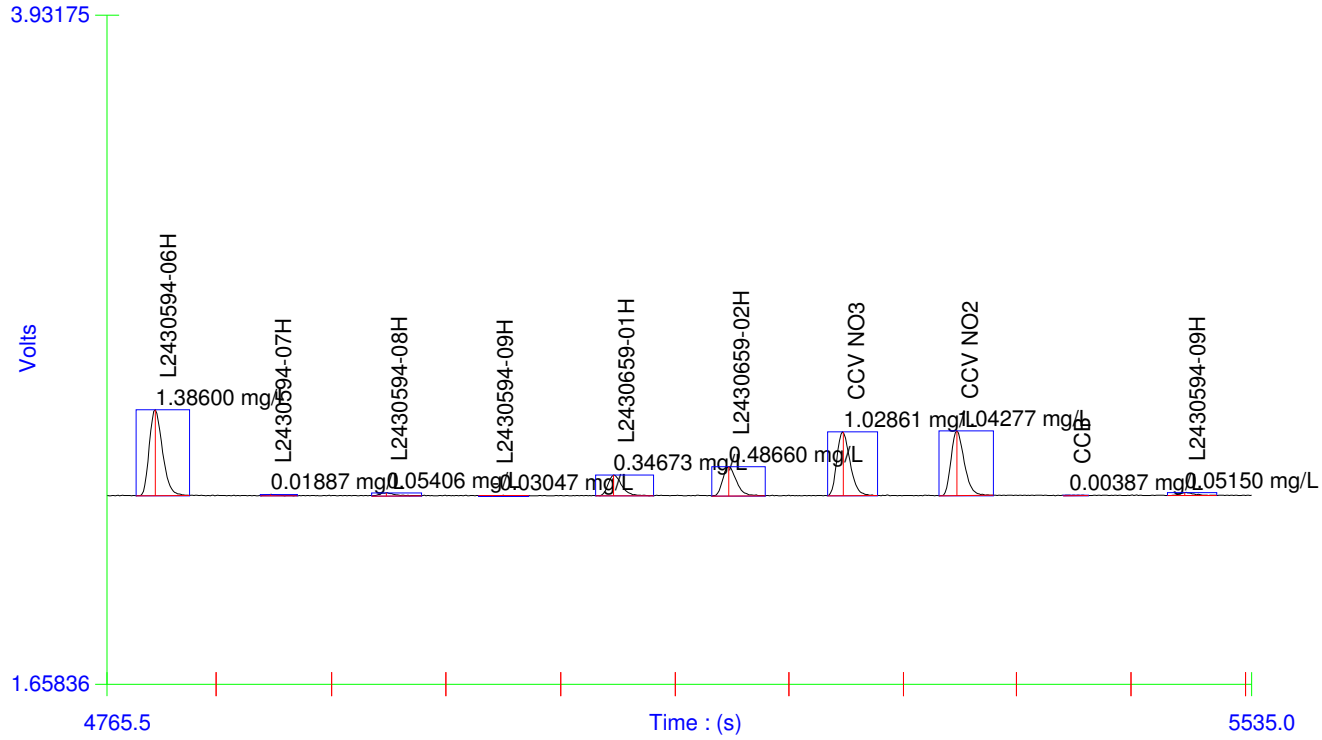
Channel 1 (NO3+NO2) - Set: 5 / 14



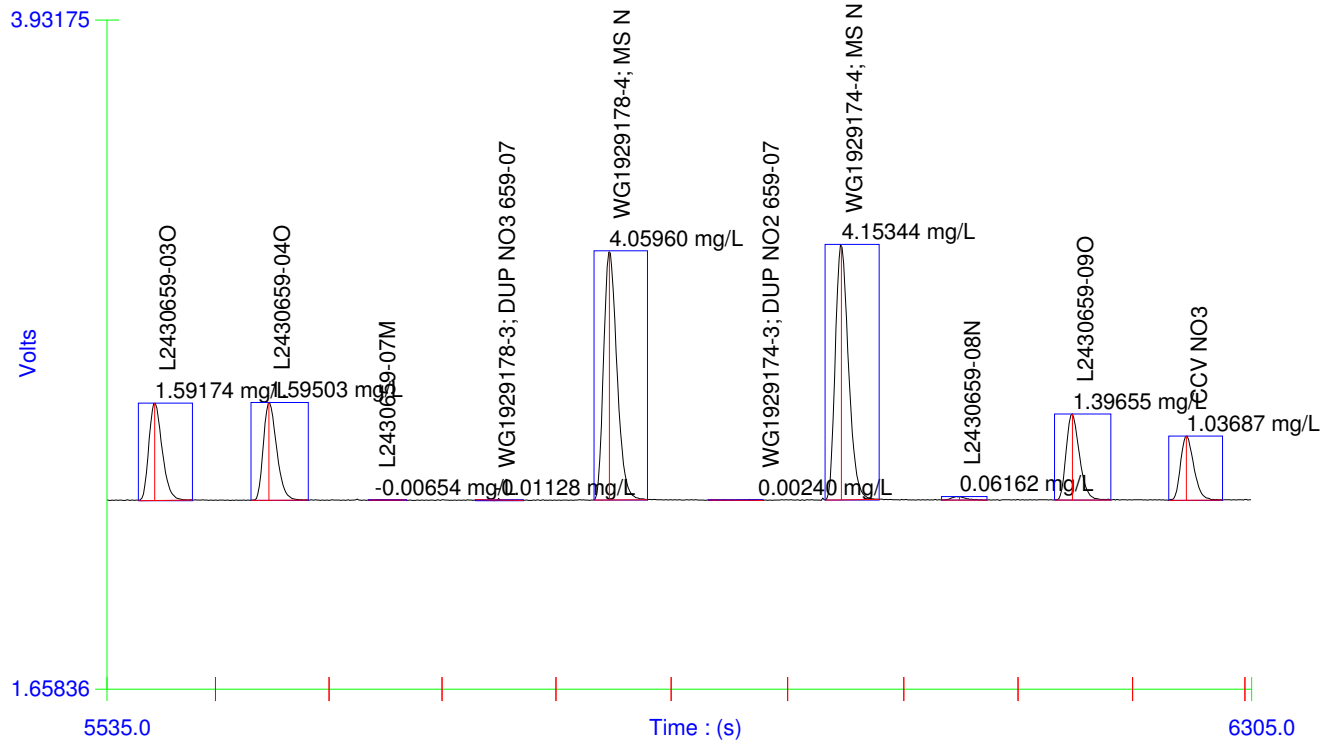
Channel 1 (NO3+NO2) - Set: 6 / 14



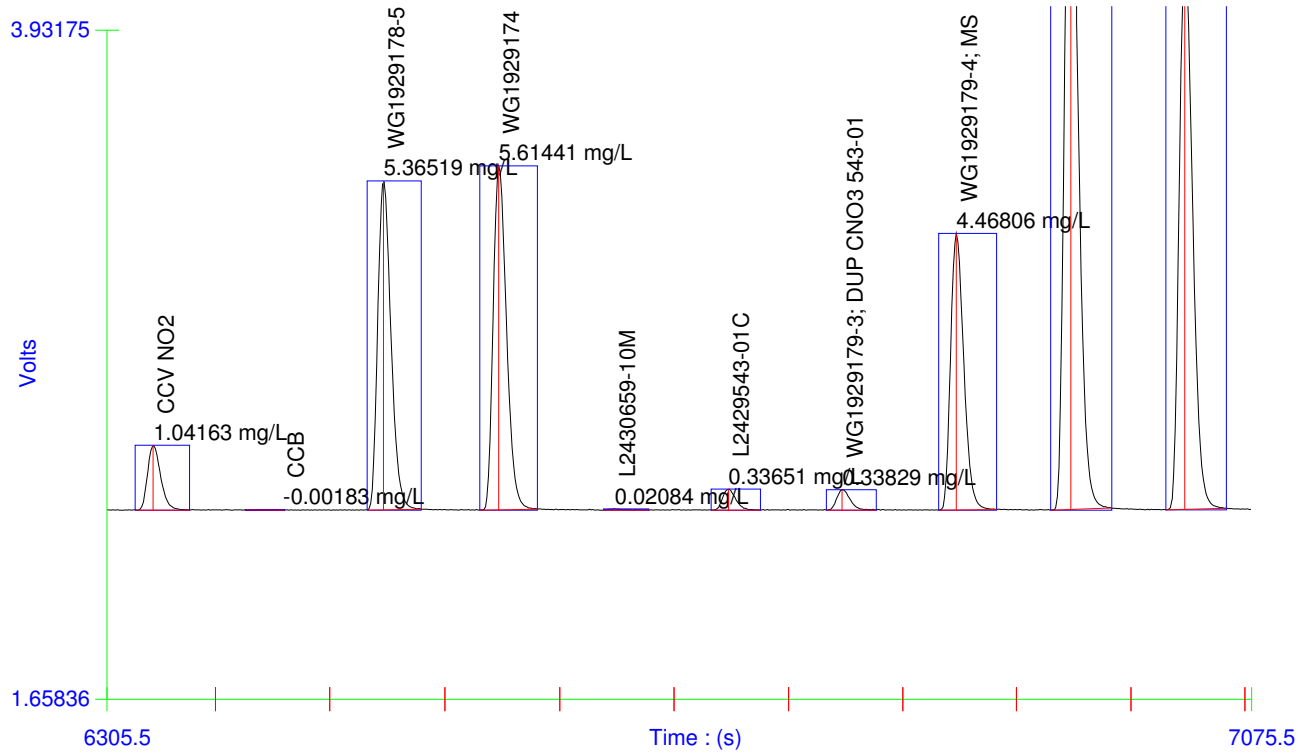
Channel 1 (NO3+NO2) - Set: 7 / 14



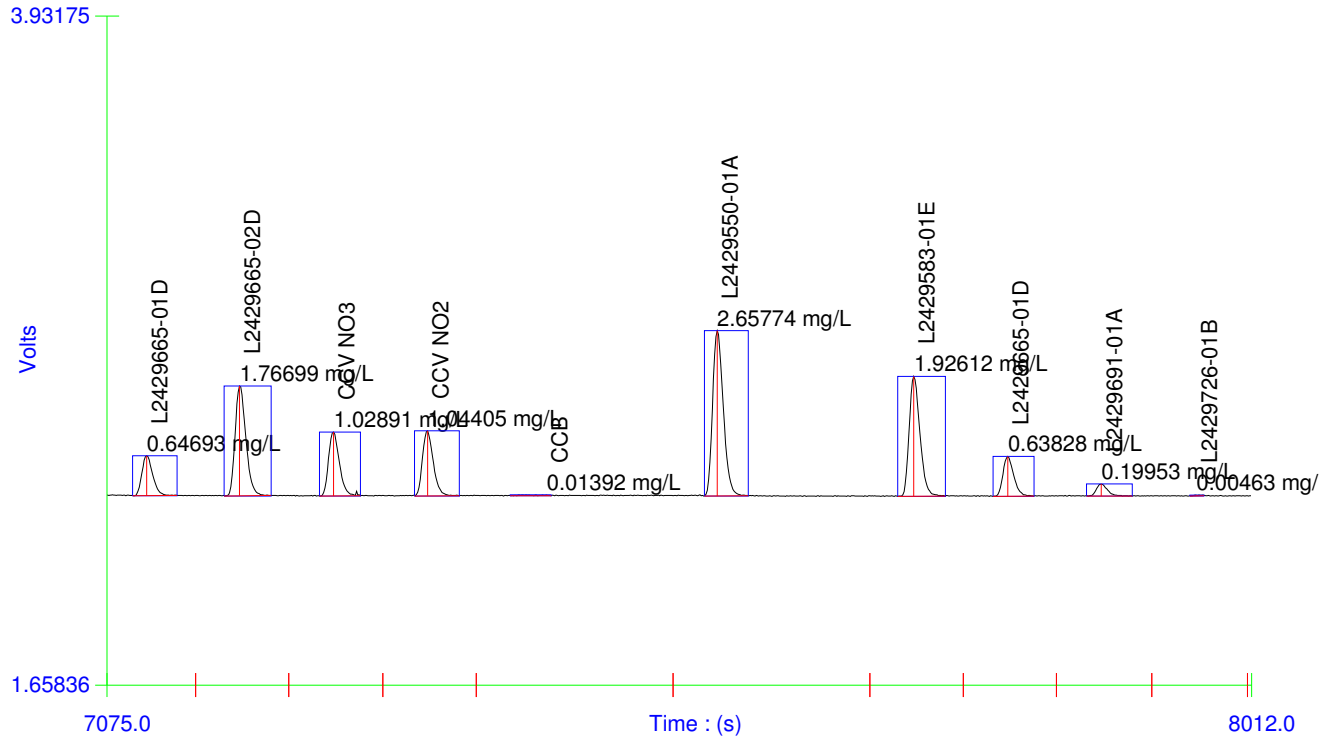
Channel 1 (NO3+NO2) - Set: 8 / 14



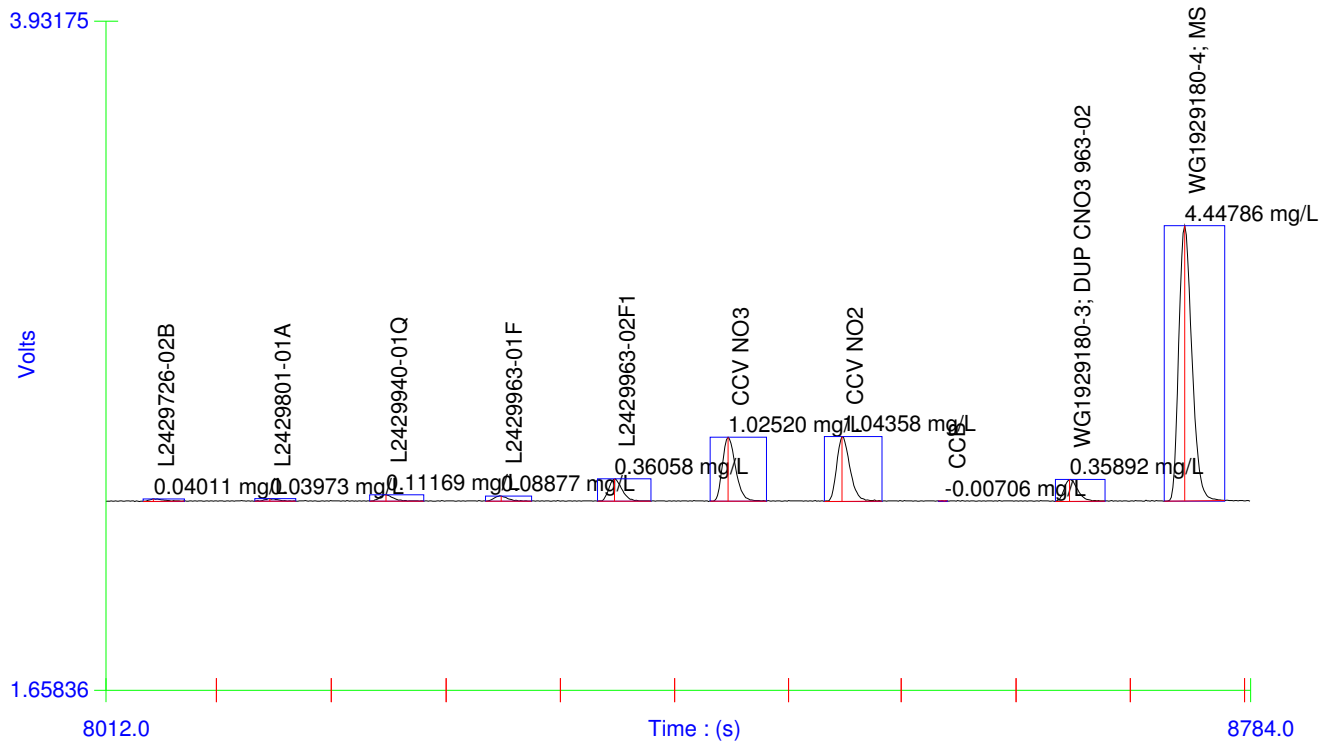
Channel 1 (NO3+NO2) - Set: 9 / 14



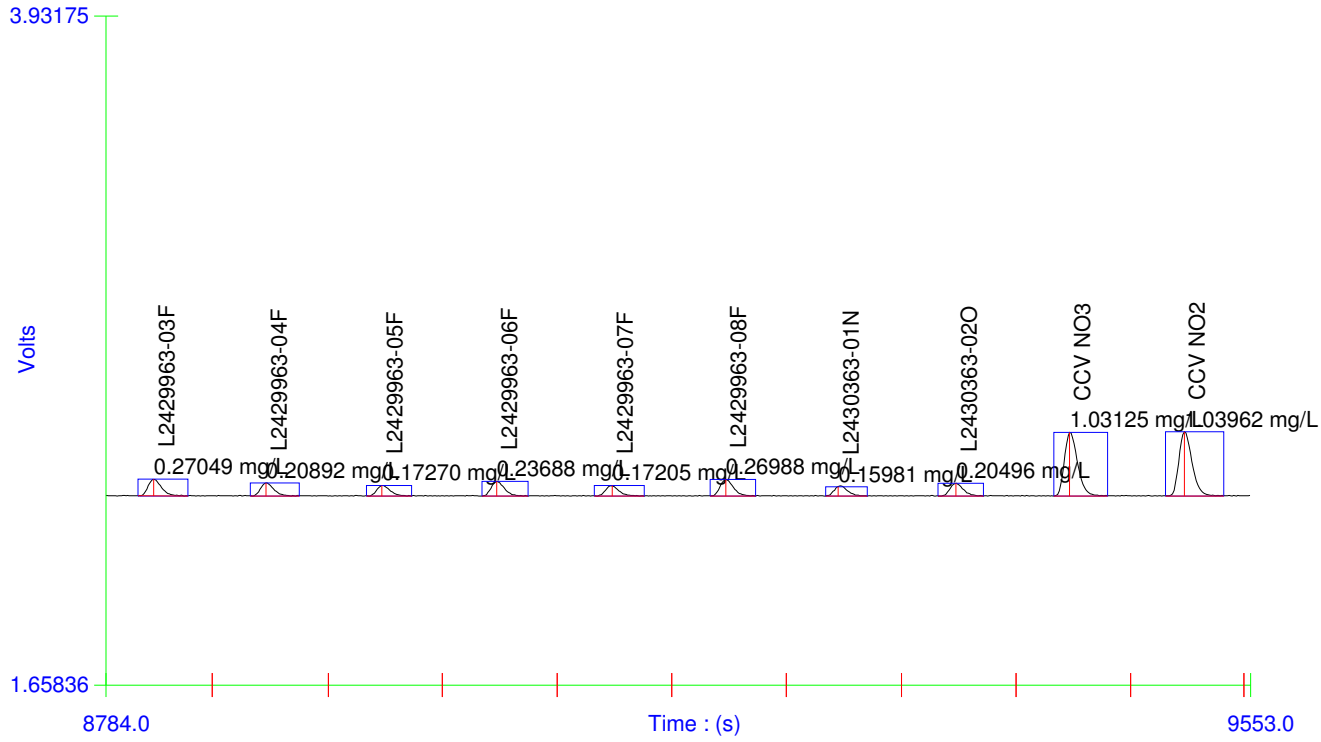
Channel 1 (NO3+NO2) - Set: 10 / 14



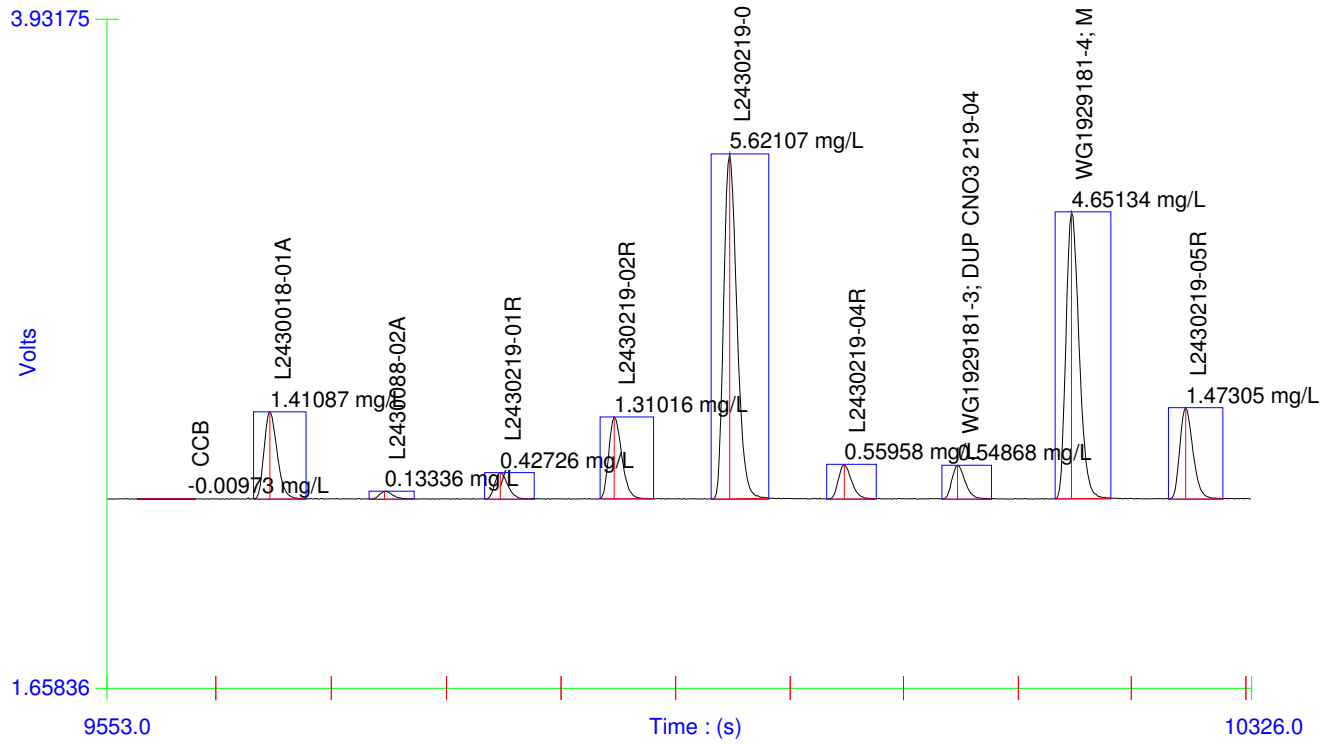
Channel 1 (NO3+NO2) - Set: 11 / 14



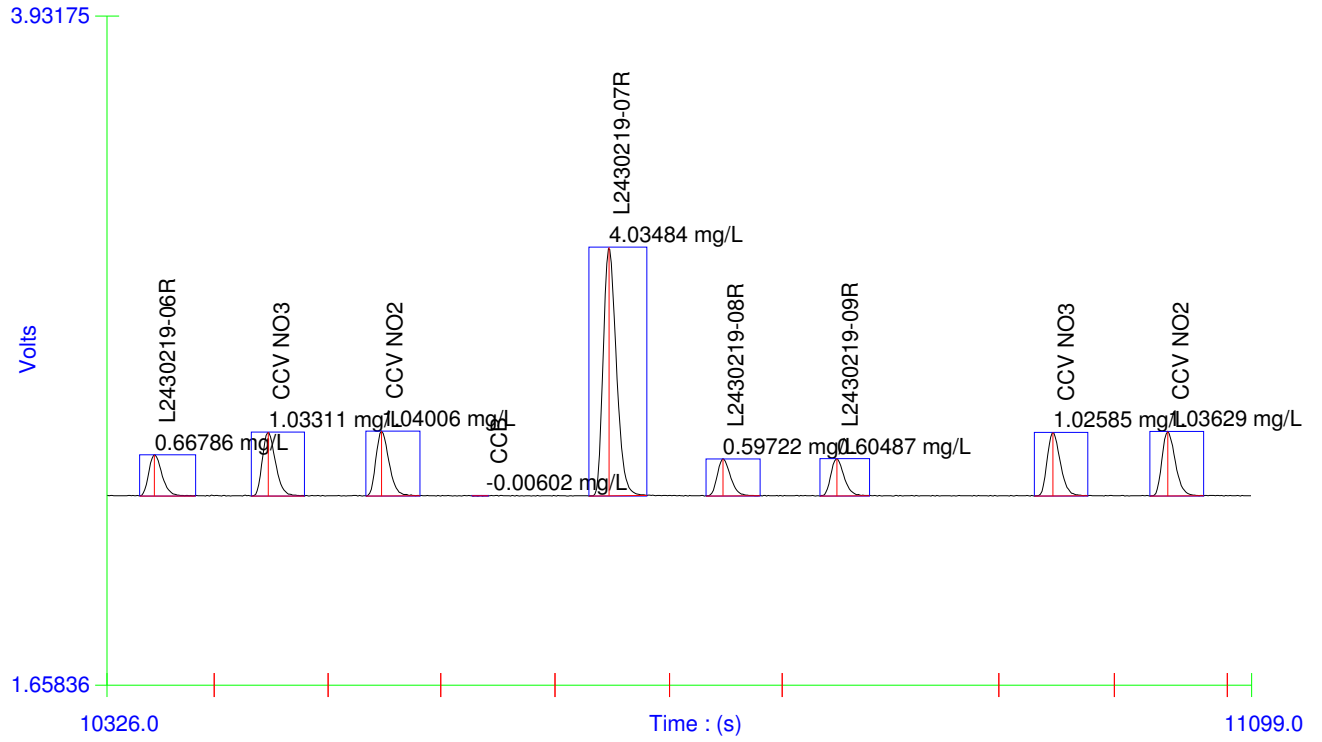
Channel 1 (NO3+NO2) - Set: 12 / 14



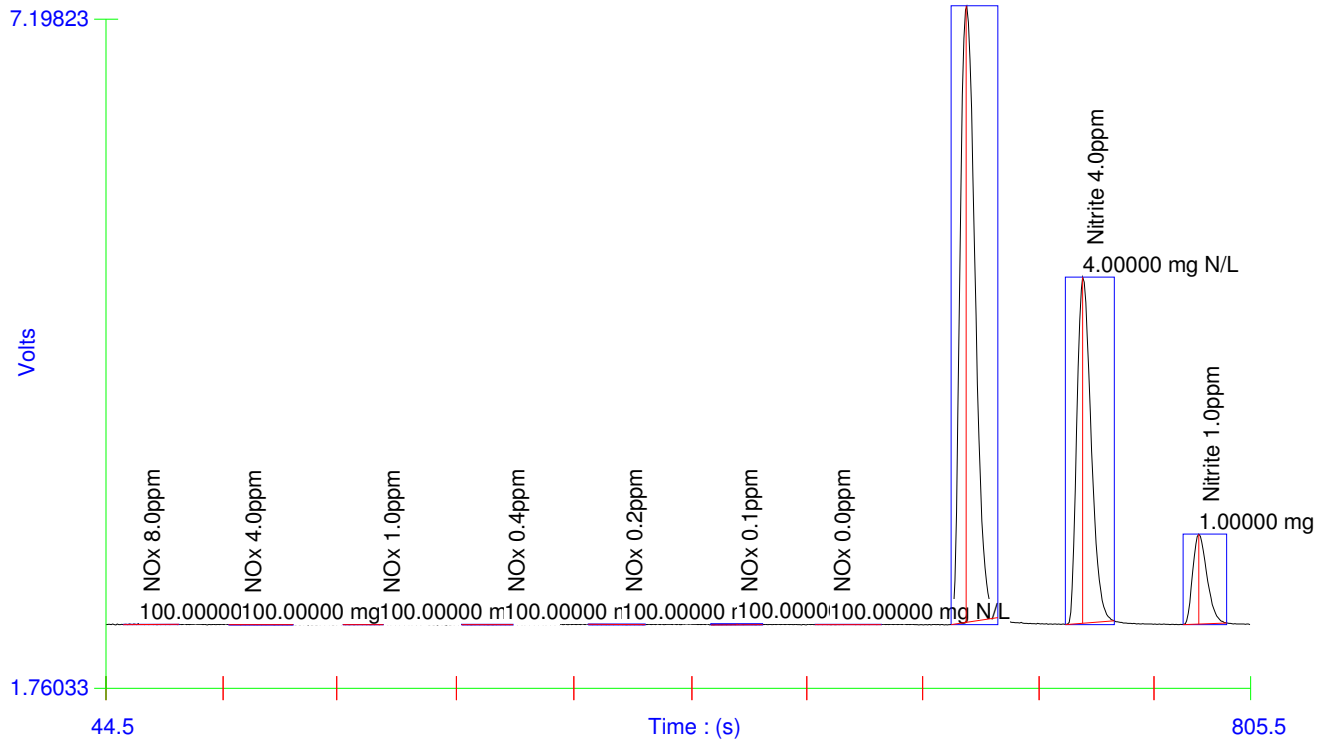
Channel 1 (NO3+NO2) - Set: 13 / 14



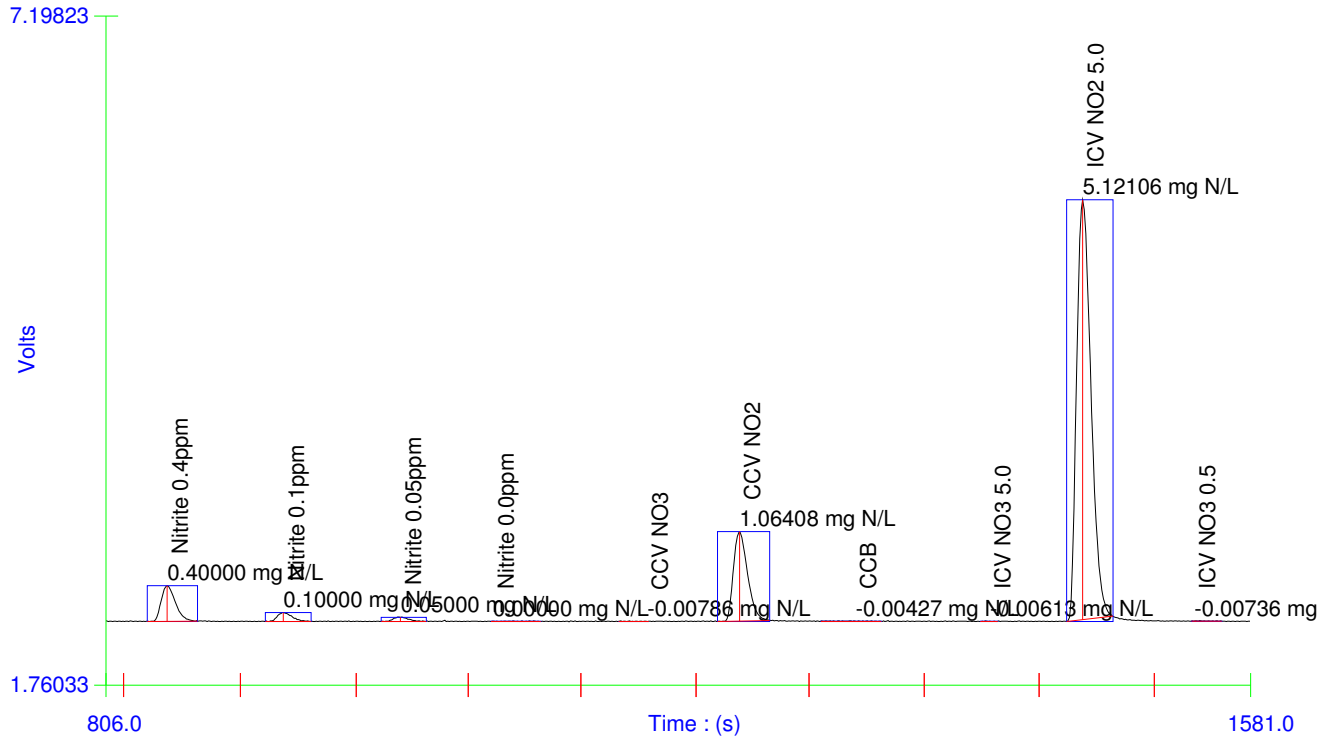
Channel 1 (NO3+NO2) - Set: 14 / 14



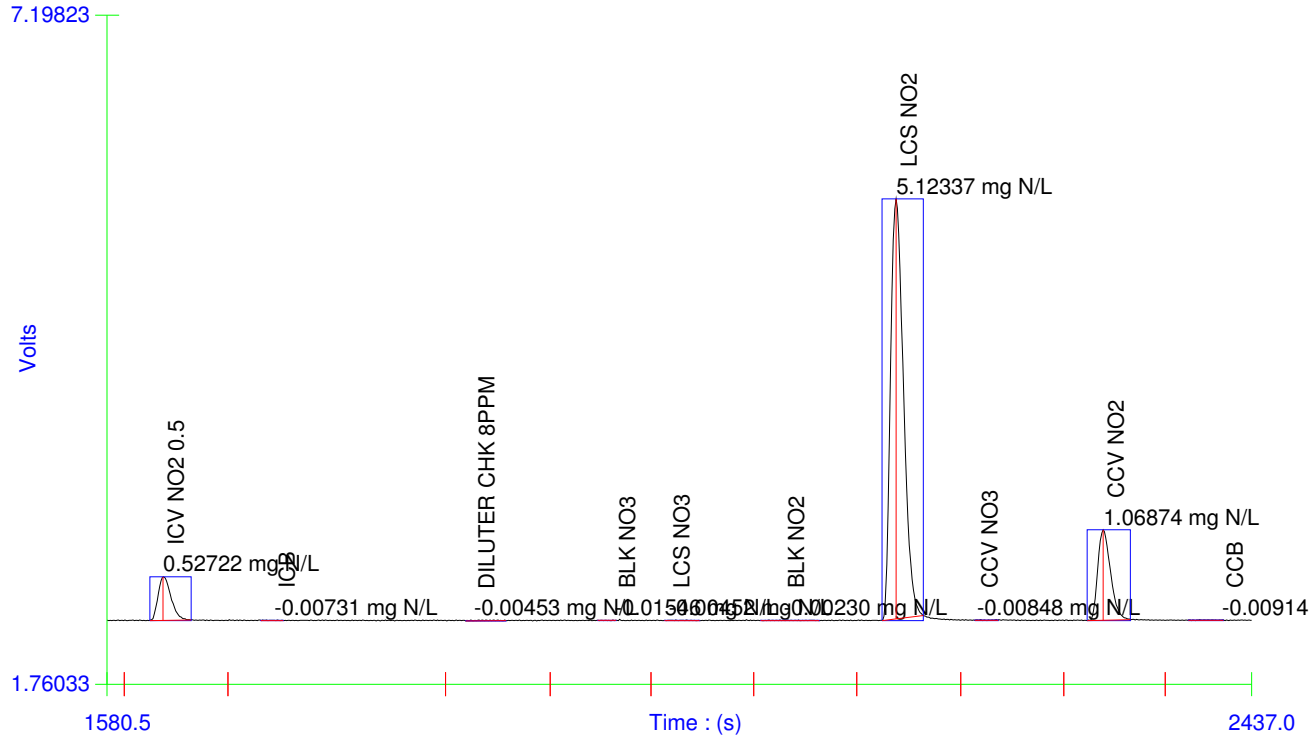
Channel 2 (NO2) - Set: 1 / 14



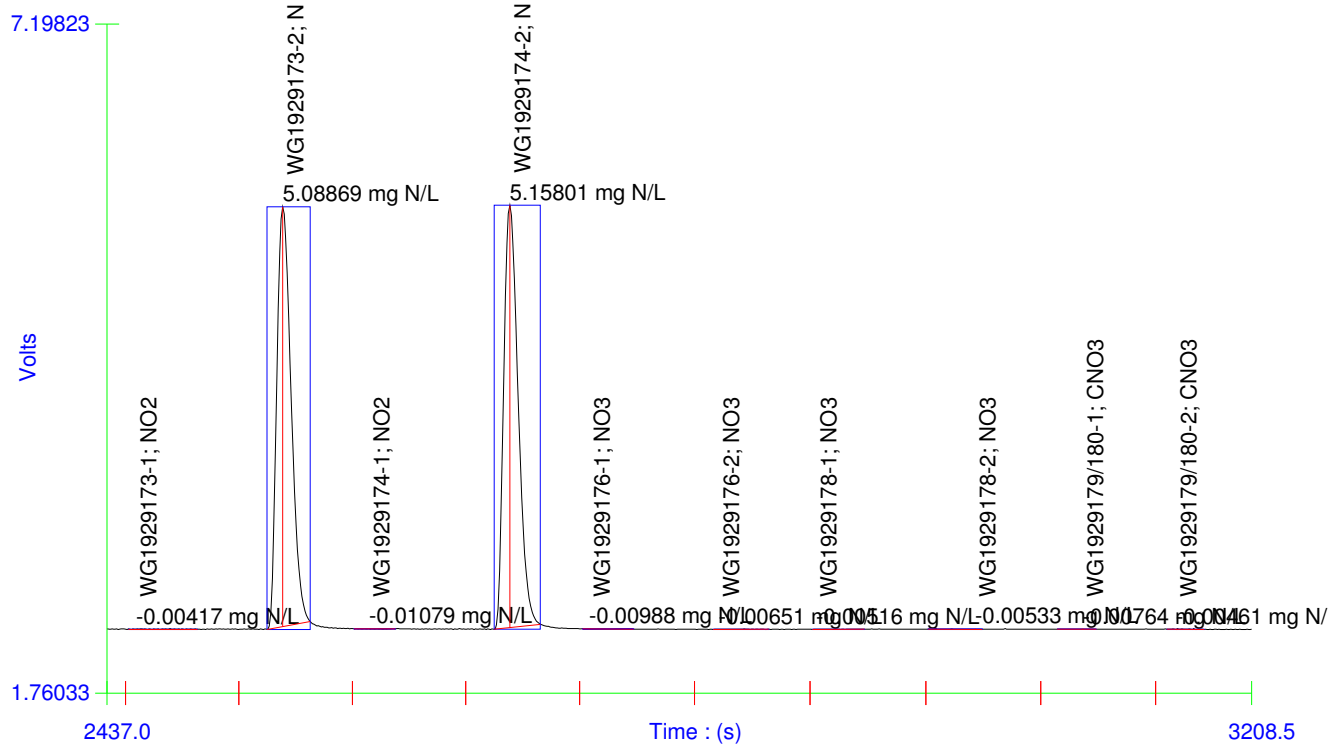
Channel 2 (NO2) - Set: 2 / 14



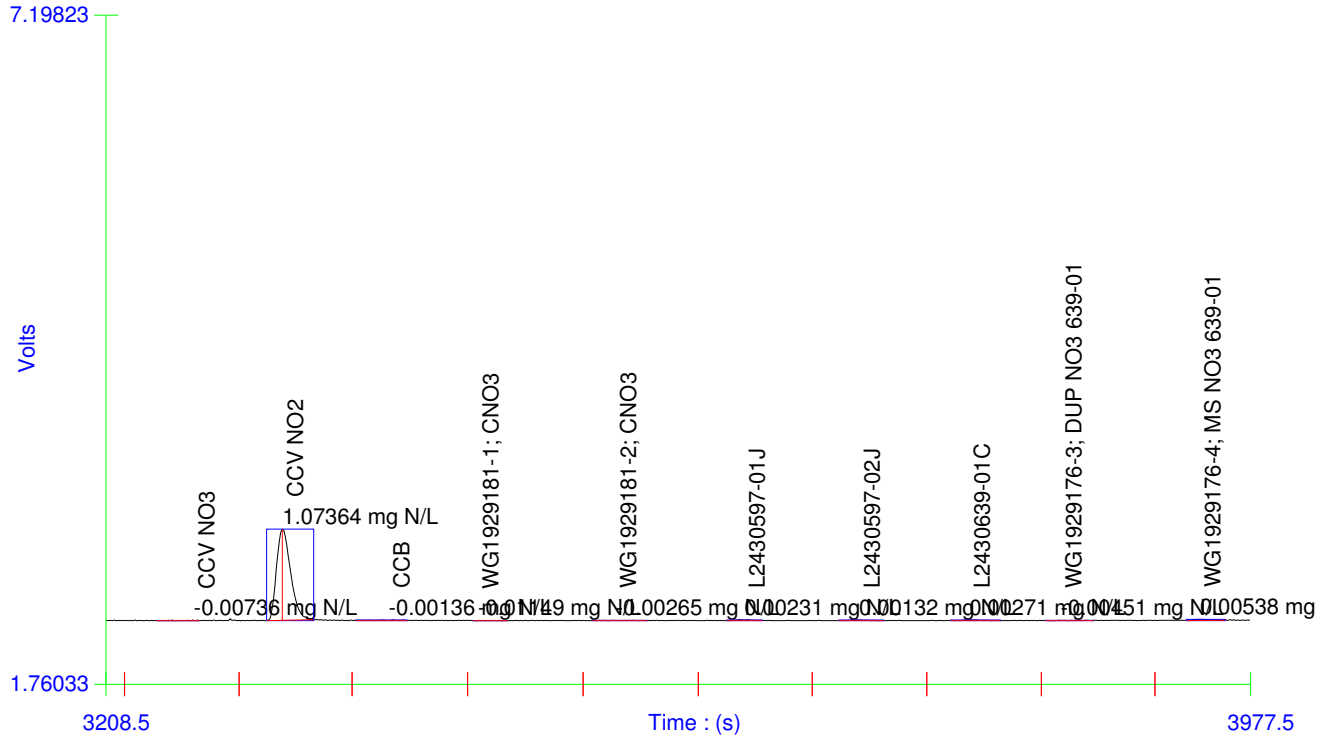
Channel 2 (NO2) - Set: 3 / 14



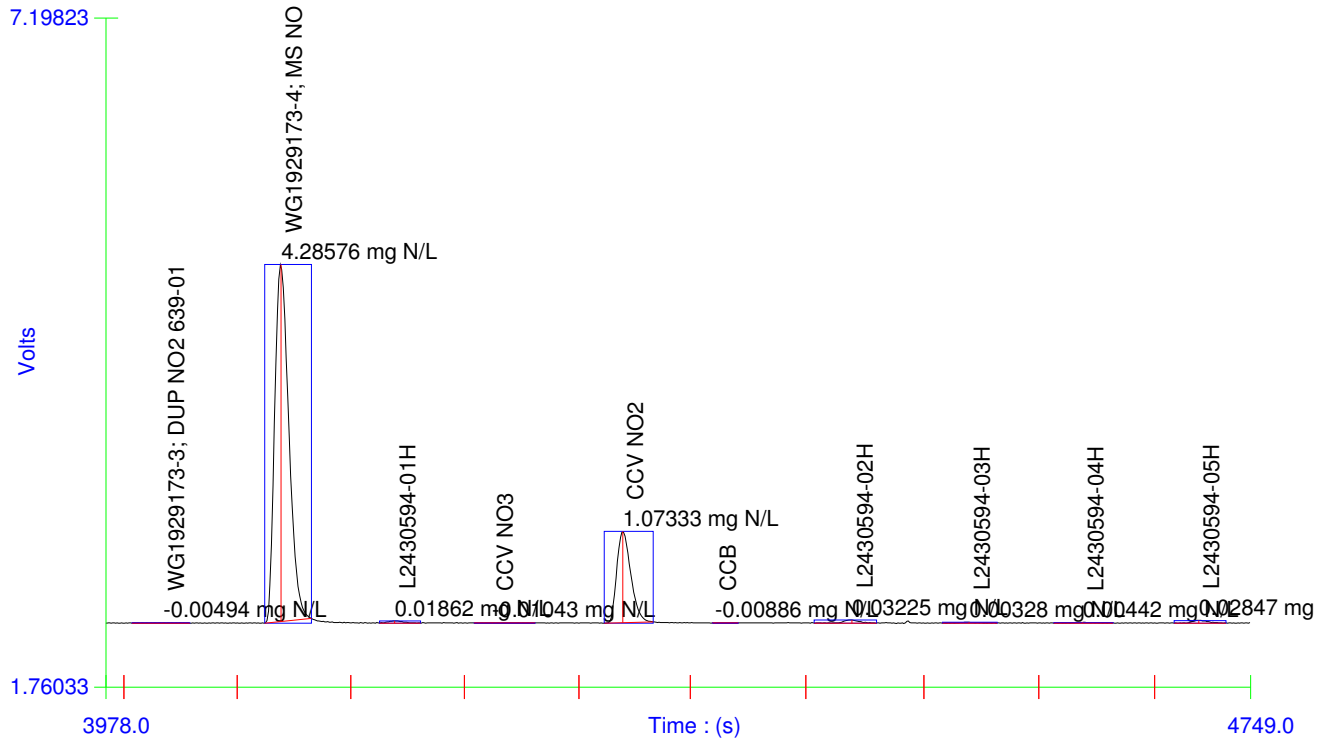
Channel 2 (NO2) - Set: 4 / 14



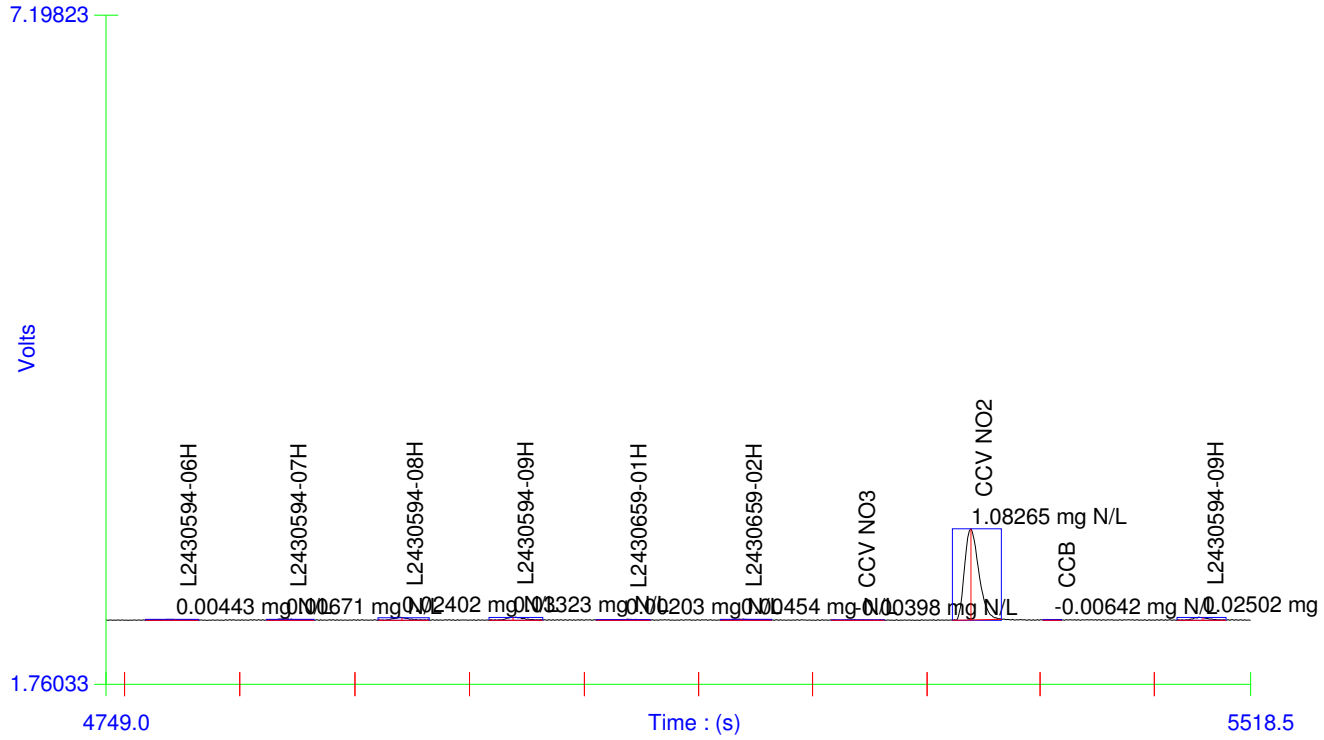
Channel 2 (NO2) - Set: 5 / 14



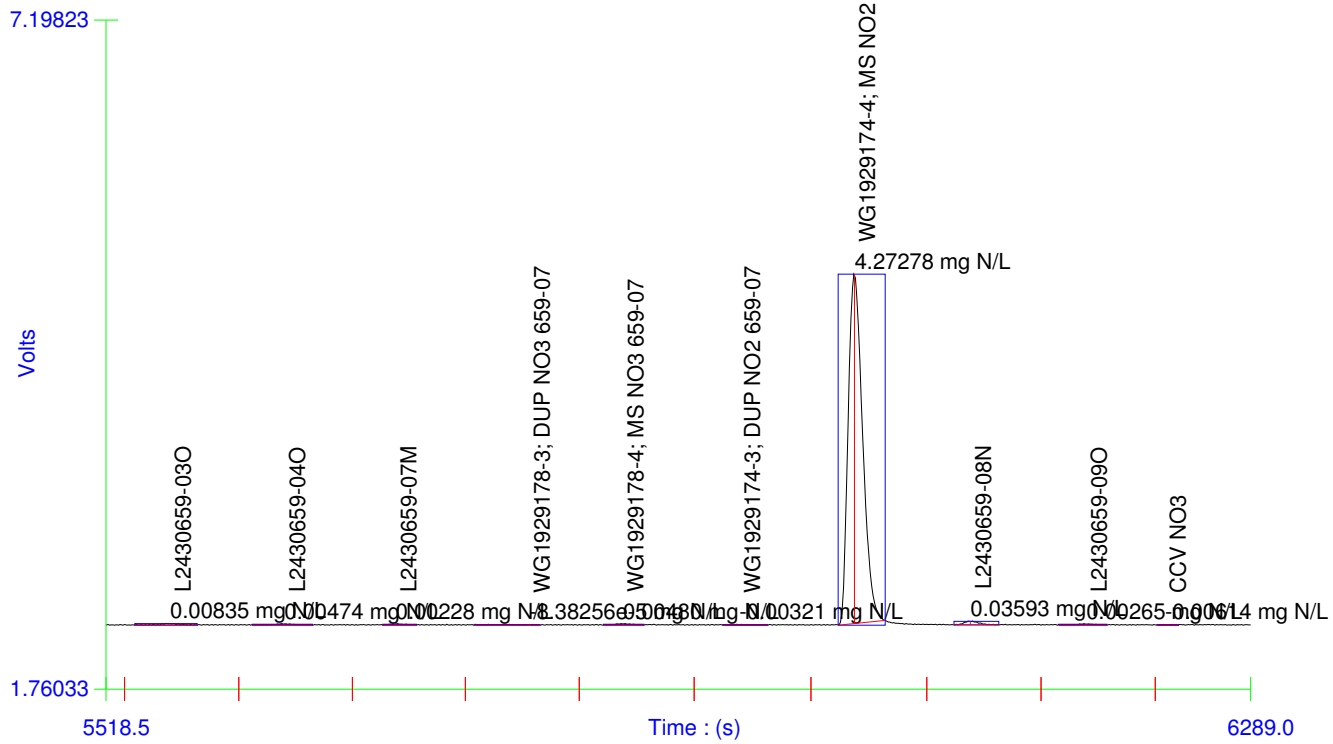
Channel 2 (NO2) - Set: 6 / 14



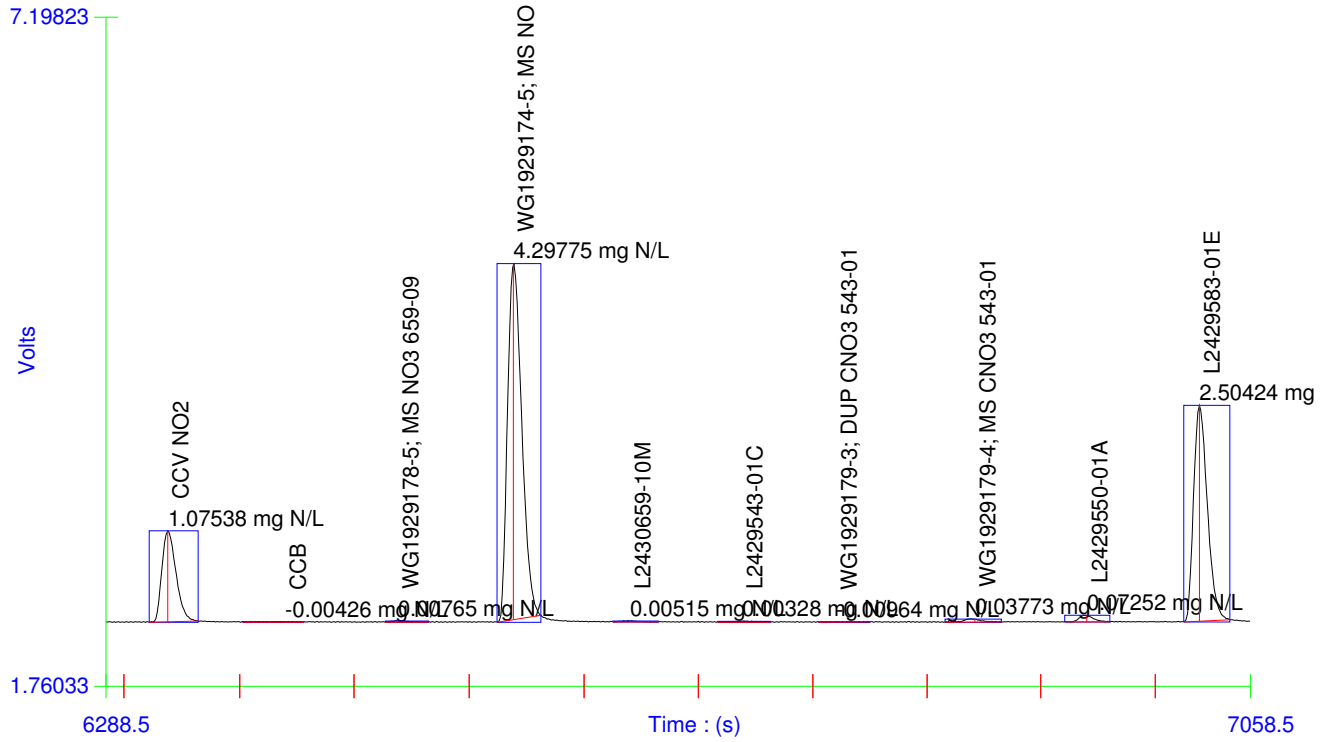
Channel 2 (NO2) - Set: 7 / 14



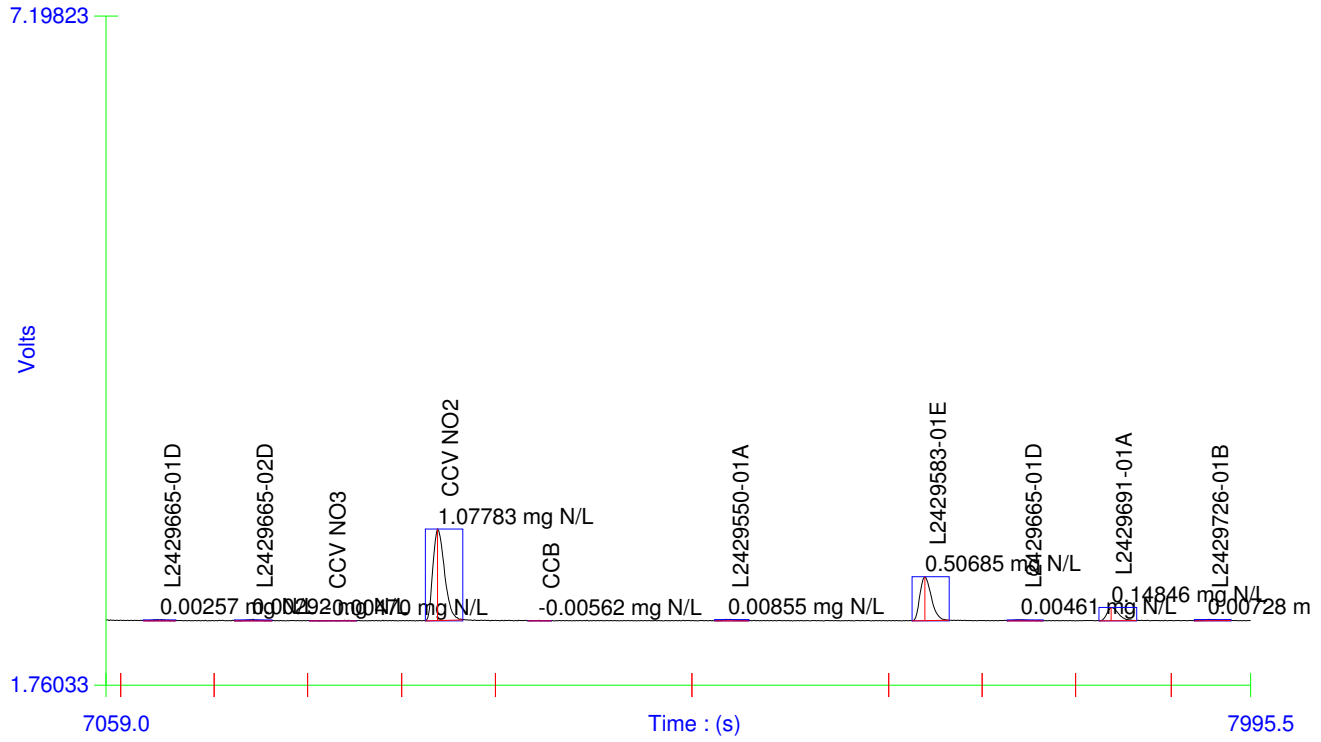
Channel 2 (NO2) - Set: 8 / 14



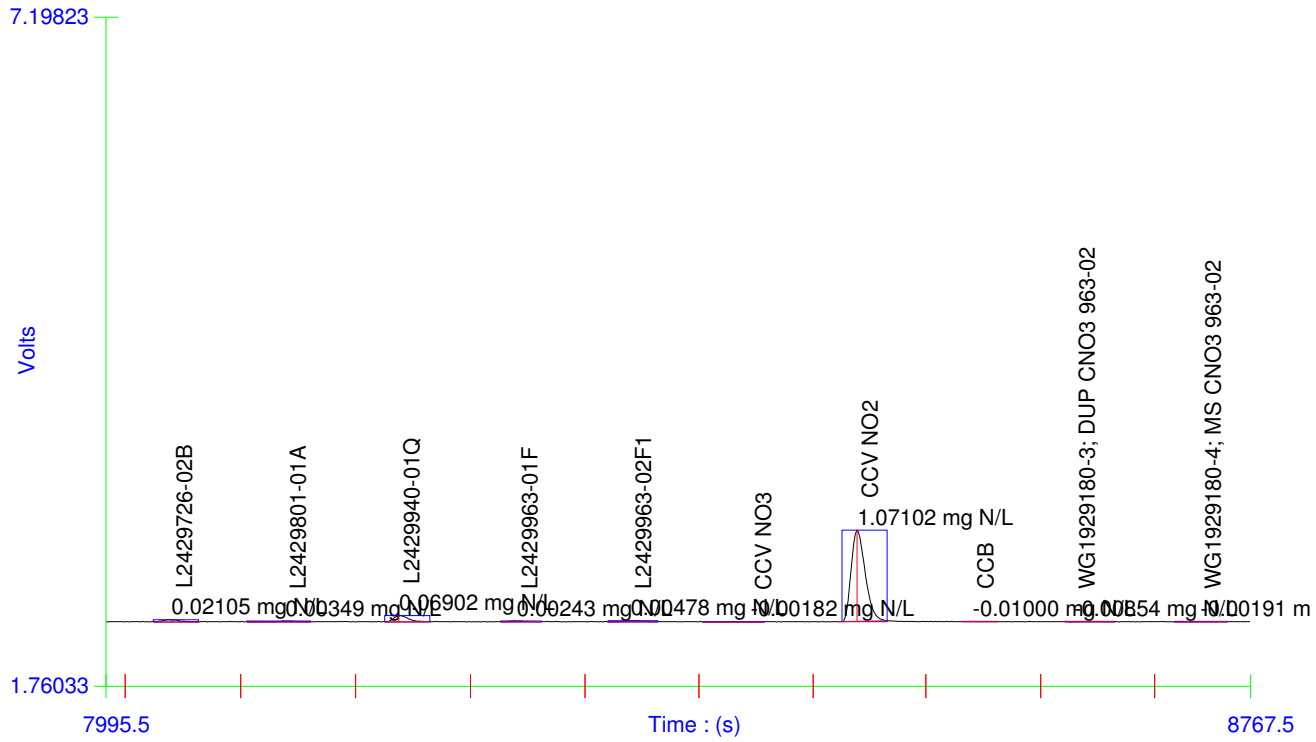
Channel 2 (NO2) - Set: 9 / 14



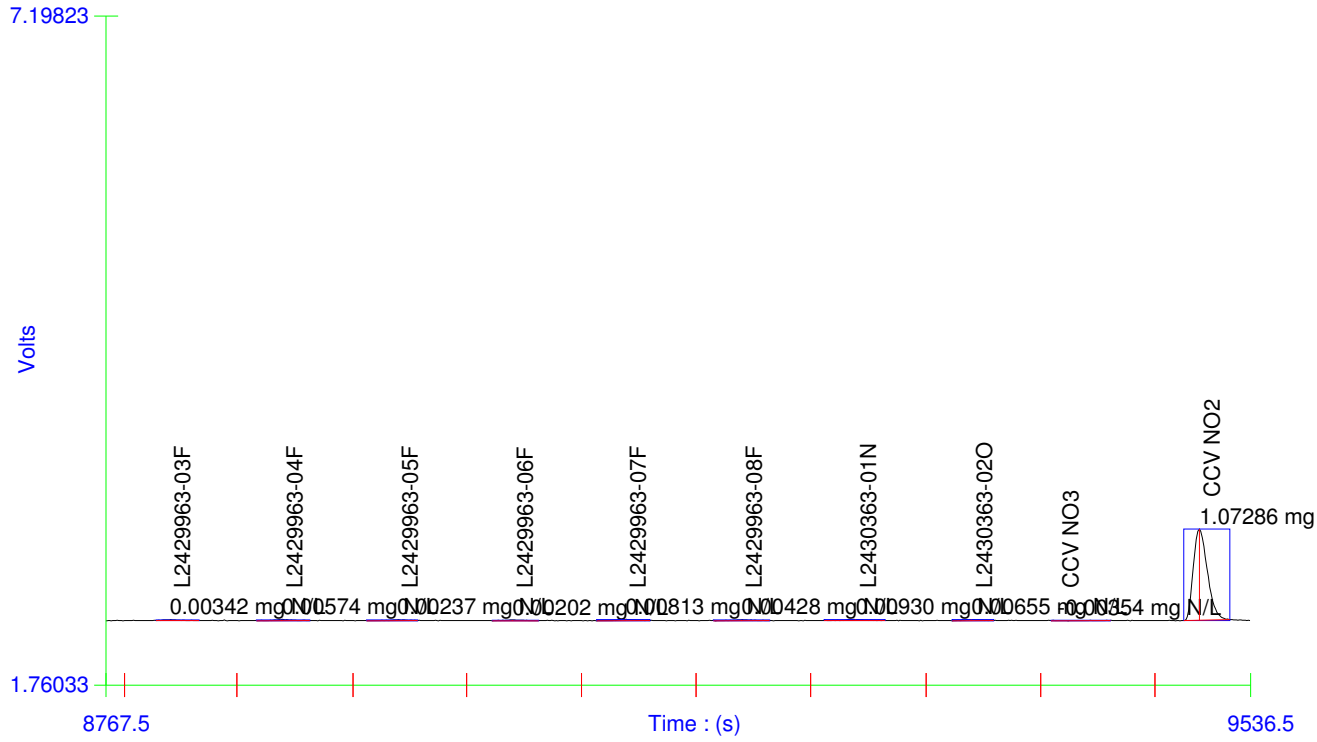
Channel 2 (NO2) - Set: 10 / 14



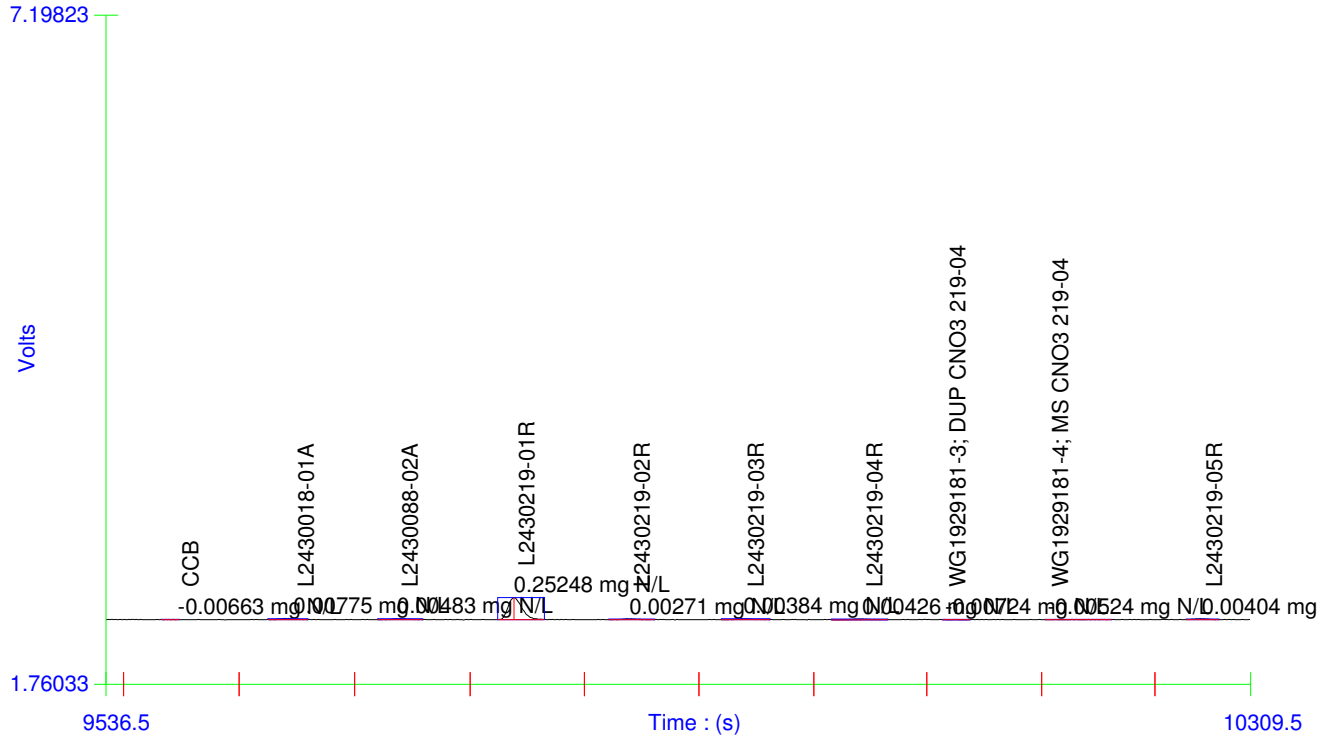
Channel 2 (NO2) - Set: 11 / 14



Channel 2 (NO2) - Set: 12 / 14



Channel 2 (NO2) - Set: 13 / 14



Channel 2 (NO2) - Set: 14 / 14

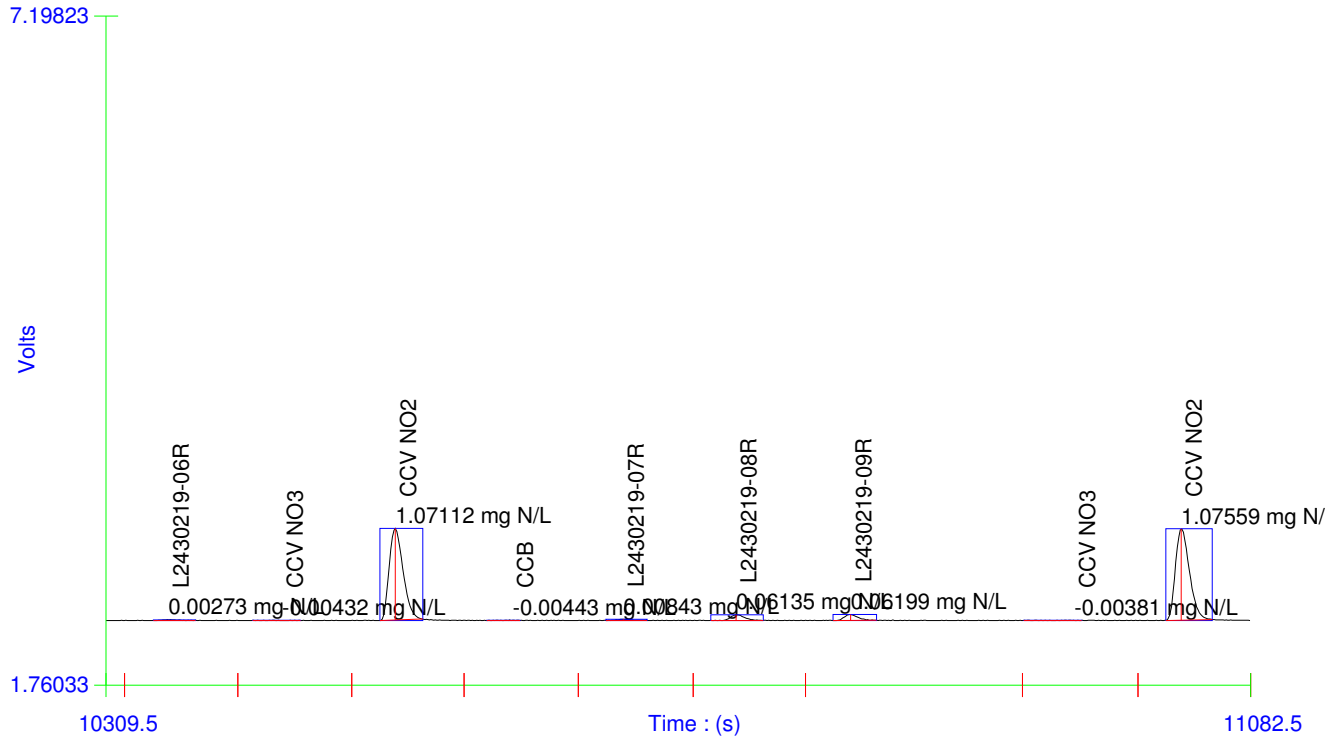


Table : 1 (NO3+NO2)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	8.00000	1	17.06597	1.63971	0.0	0.9	7.93004	6/4/2024	2:47:15 AM
2	4.00000	1	8.72941	0.85577	0.0	-1.4	4.05429	6/4/2024	2:48:34 AM
3	1.00000	1	2.17067	0.21333	0.0	-0.5	1.00506	6/4/2024	2:49:49 AM
4	0.40000	1	0.89325	0.08772	0.0	-2.8	0.41118	6/4/2024	2:51:09 AM
5	0.20000	1	0.42947	0.04287	0.0	2.2	0.19556	6/4/2024	2:52:27 AM
6	0.10000	1	0.22806	0.02172	0.0	-1.8	0.10192	6/4/2024	2:53:46 AM
7	0.00000	1	0.00132	0.00226			-0.00349	6/4/2024	2:55:02 AM

Figure : 1 (NO3+NO2)

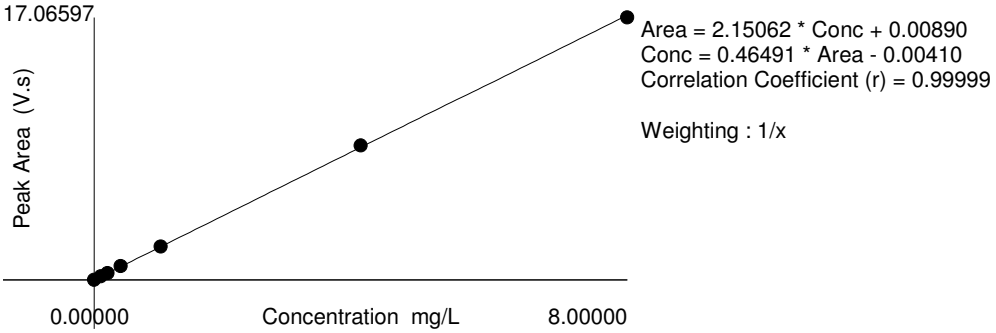
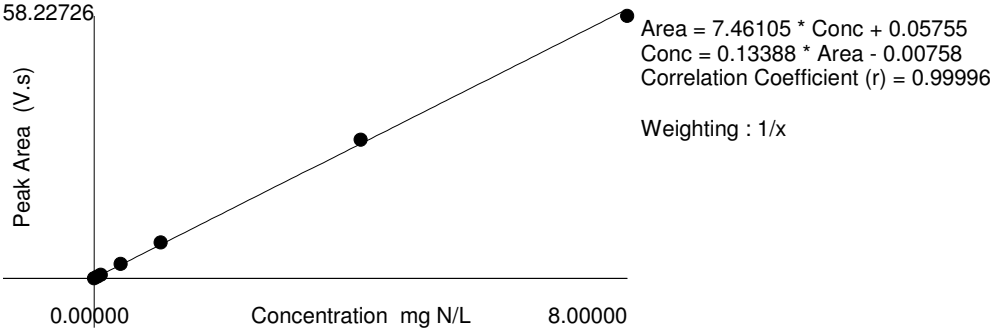


Table : 2 (Nitrite)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	8.00000	1	58.22726	5.00819	0.0	2.5	7.78781	6/4/2024	2:56:19 AM
2	4.00000	1	30.81751	2.81058	0.0	-3.1	4.11823	6/4/2024	2:57:37 AM
3	1.00000	1	7.95985	0.73091	0.0	-5.9	1.05808	6/4/2024	2:58:54 AM
4	0.40000	1	3.21303	0.29005	0.0	-5.6	0.42258	6/4/2024	3:00:11 AM
5	0.10000	1	0.82858	0.07334	0.0	-3.1	0.10335	6/4/2024	3:01:30 AM
6	0.05000	1	0.39634	0.03355	0.0	8.0	0.04548	6/4/2024	3:02:49 AM
7	0.00000	1	0.03395	0.00391			-0.00303	6/4/2024	3:04:05 AM

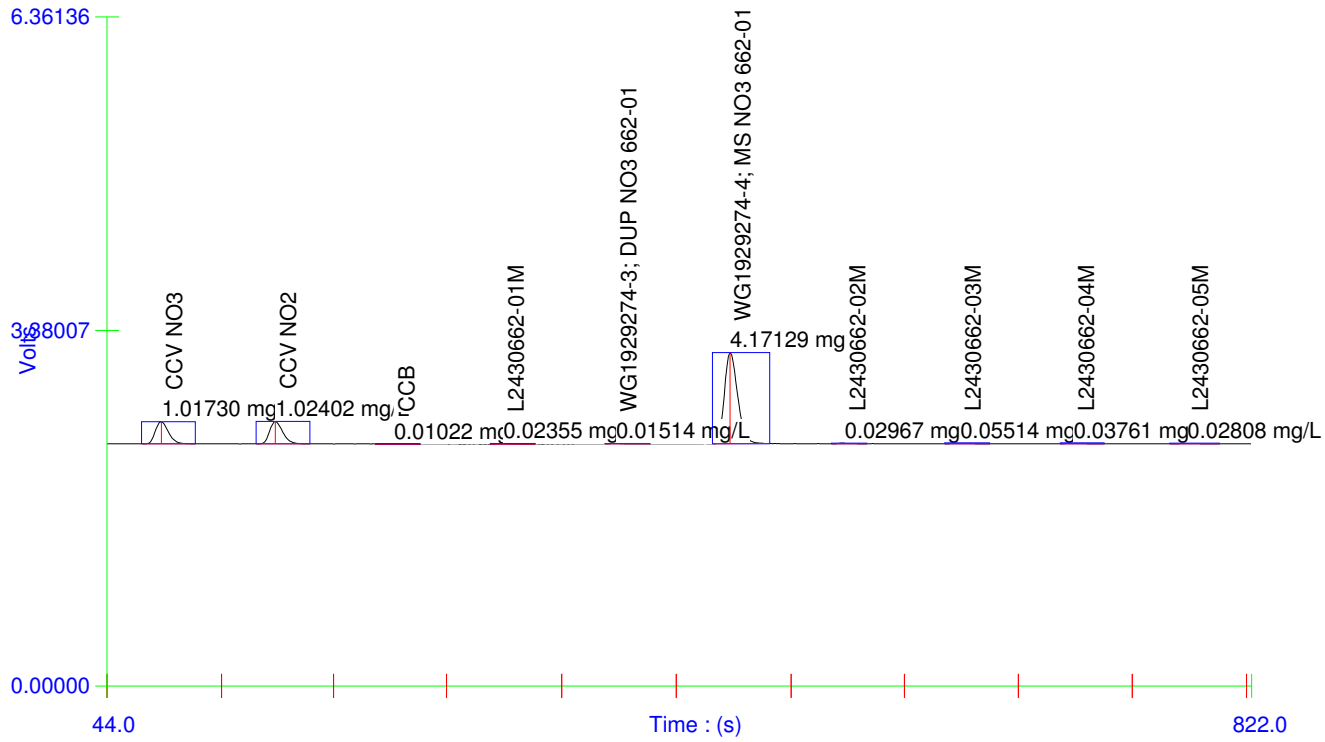
Figure : 2 (Nitrite)



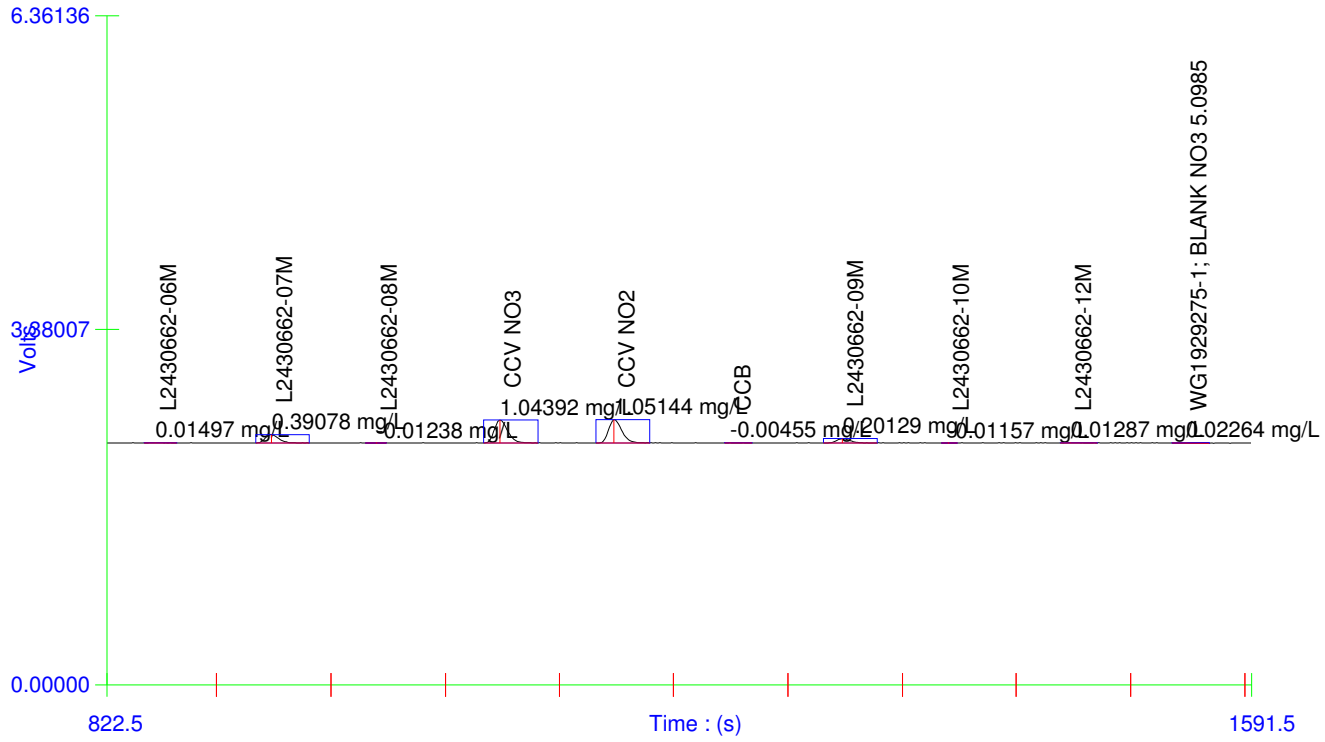
Original Run Filename: OM_6-4-2024_06-57-03AM.OMN Created: 6/4/2024 6:57:03 AM
Original Run Author's Signature: [A1wetcheminstrument]
Current Run Filename: OM_6-4-2024_06-57-03AM.OMN Last Modified: 6/4/2024 7:35:49 AM
Current Run Author's Signature: [A1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 NO3+NO2 (mg/L)	Channel 2 Nitrite (mg N/L)	ADF	MDF	Weight
CCV NO3	1	S2	1.01730	-0.01023			
	Known Conc:		1.00000	0.00000			
	Calibration:			Table/Fig. : 1			
CCV NO2	1	S9	1.02402	1.07006			
	Known Conc:		0.00000	1.00000			
	Calibration:		Table/Fig. : 2				
CCB	1	S1	0.01022	-0.01477			
	Known Conc:		0.00000	0.00000			
L2430662-01M	1	90	0.02355	0.00383			
WG1929274-3; DUP NO3 662-01	1	91	0.01514	0.00202			
WG1929274-4; MS NO3 662-01	1	92	4.17129	-0.00678			
L2430662-02M	1	93	0.02967	0.01166			
L2430662-03M	1	94	0.05514	0.01358			
L2430662-04M	1	95	0.03761	0.01194			
L2430662-05M	1	96	0.02808	0.00537			
L2430662-06M	1	97	0.01497	0.00259			
L2430662-07M	1	98	0.39078	0.00894			
L2430662-08M	1	99	-0.01238	0.00990			
CCV NO3	1	S2	1.04392	-0.00573			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.05144	1.07161			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00455	-0.00683			
	Known Conc:		0.00000	0.00000			
L2430662-09M	1	100	0.20129	0.00384			
L2430662-10M	1	101	-0.01157	0.01227			
L2430662-12M	1	102	0.01287	0.00333			
WG1929275-1; BLANK NO3 5.0985	1	103	0.22206	0.02125			0.10197 g
WG1929275-2; LCS NO3 5.2004	1	104	50.21559	0.01680			0.10401 g
L2430159-01C; 5.3697	1	105	0.25103	0.13122			0.10739 g
WG1929275-3; DUP NO3 159-01 5.2655	1	106	0.52752	0.40679			0.10531 g
WG1929275-4; MS NO3 159-01 5.3025	1	107	79.19808	0.50198	5.00		0.10605 g
CCV NO3	1	S2	1.05114	-0.01007			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.05429	1.07378			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01457	-0.01037			
	Known Conc:		0.00000	0.00000			

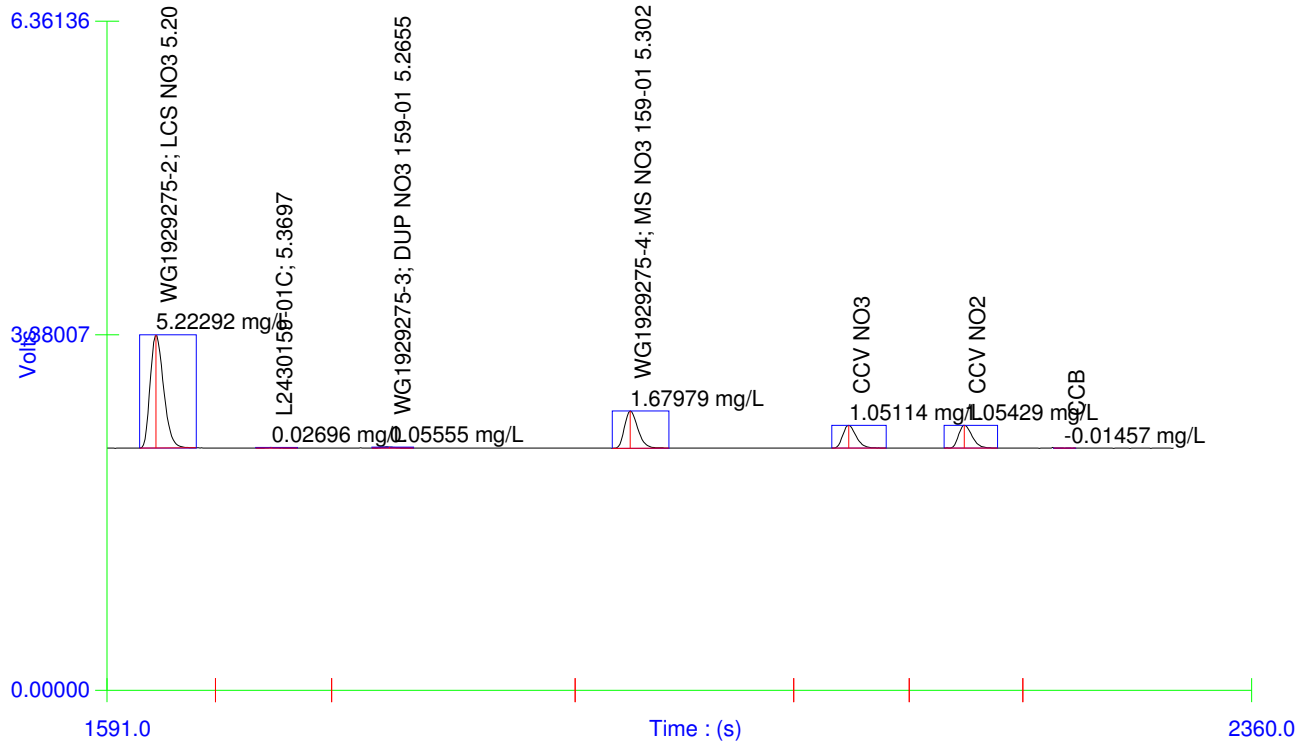
Channel 1 (NO3+NO2) - Set: 1 / 3



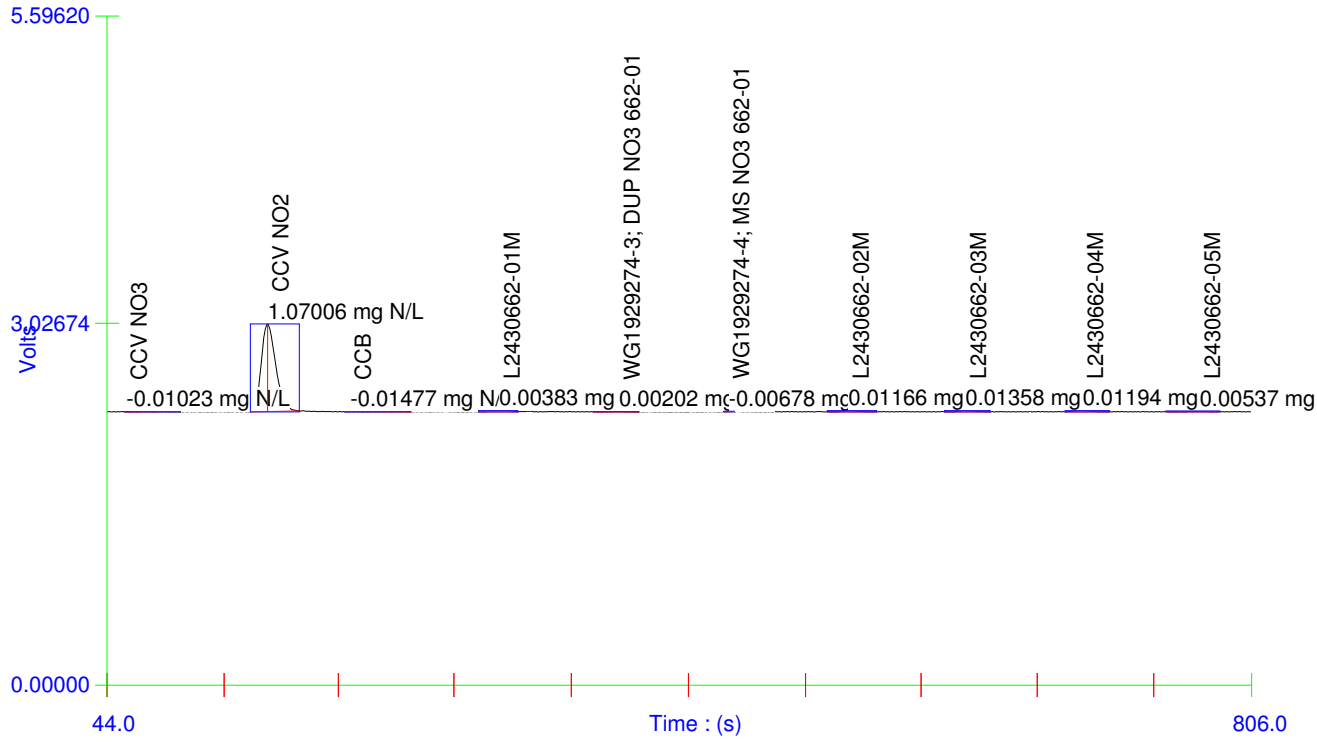
Channel 1 (NO3+NO2) - Set: 2 / 3



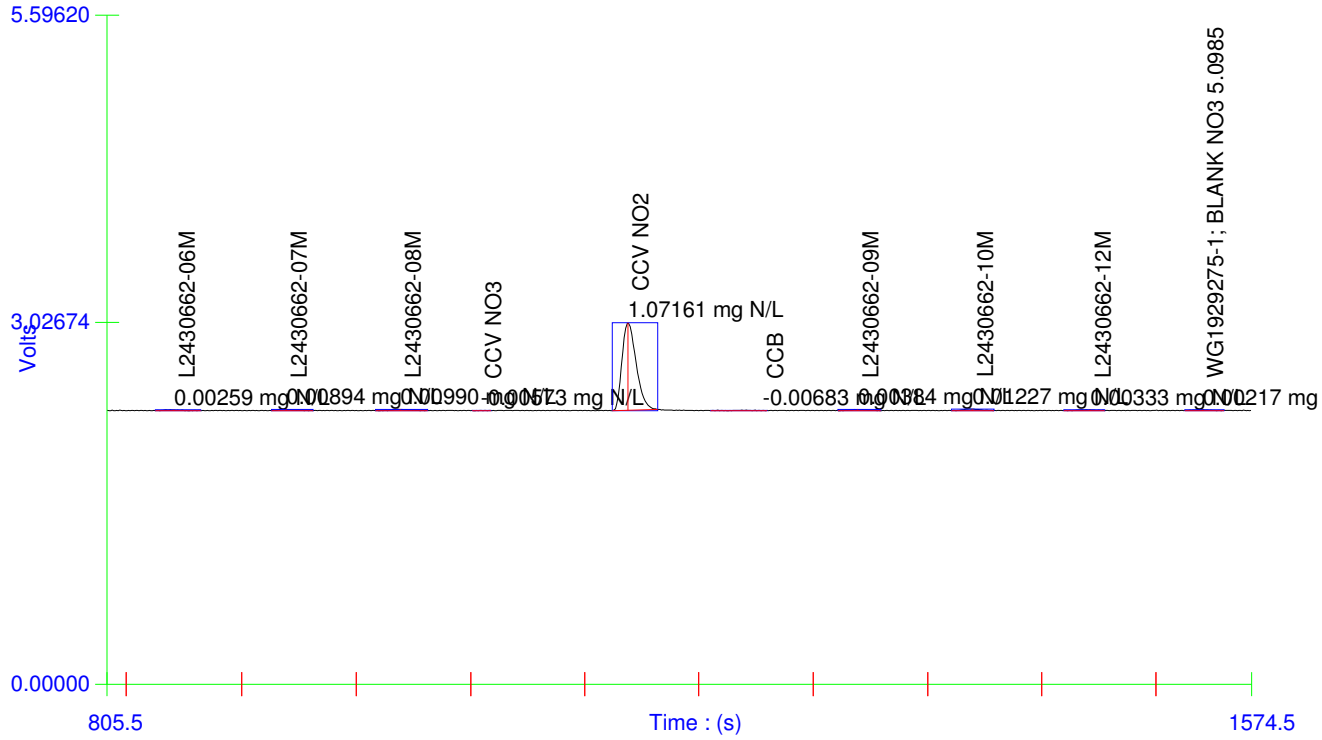
Channel 1 (NO3+NO2) - Set: 3 / 3



Channel 2 (NO2) - Set: 1 / 3



Channel 2 (NO2) - Set: 2 / 3



Channel 2 (NO2) - Set: 3 / 3

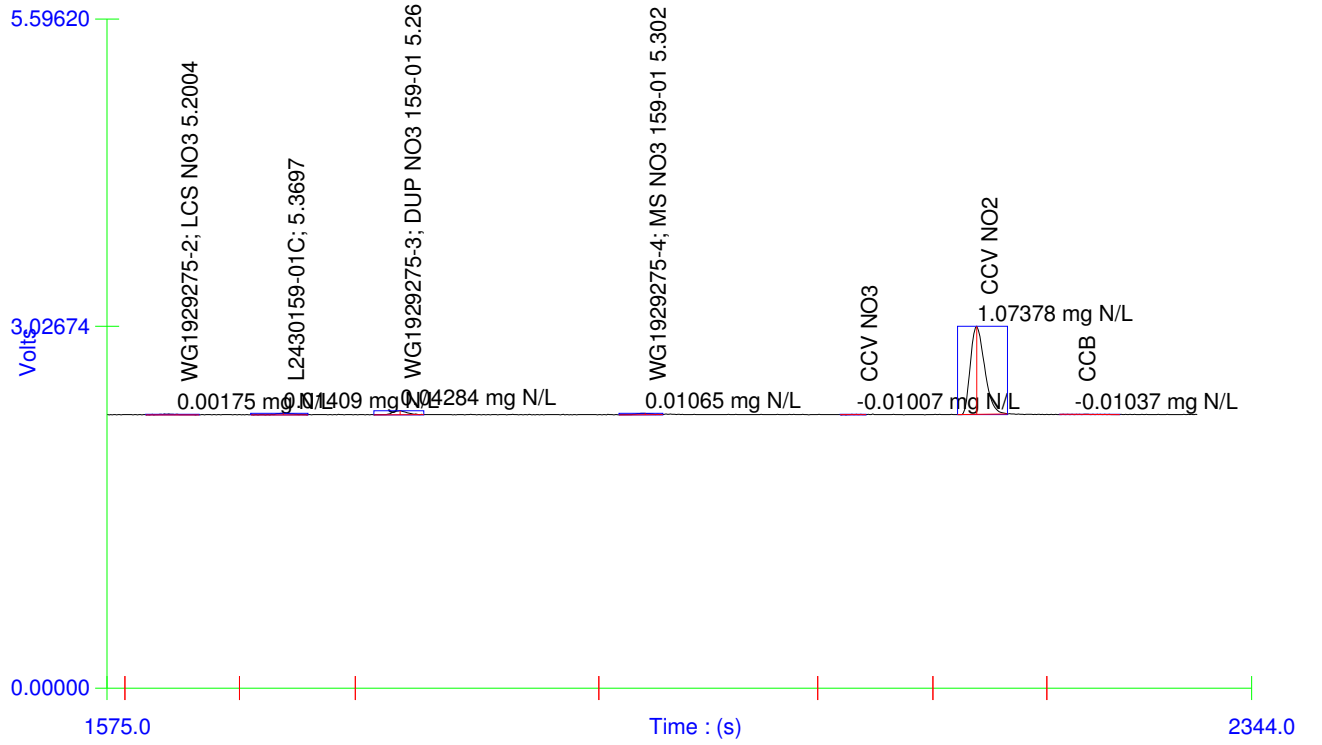


Table : 1 (Nitrite)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	8.00000	1	58.22726	5.00819	0.0	2.5	7.78781	6/4/2024	2:56:19 AM
2	4.00000	1	30.81751	2.81058	0.0	-3.1	4.11823	6/4/2024	2:57:37 AM
3	1.00000	1	7.95985	0.73091	0.0	-5.9	1.05808	6/4/2024	2:58:54 AM
4	0.40000	1	3.21303	0.29005	0.0	-5.6	0.42258	6/4/2024	3:00:11 AM
5	0.10000	1	0.82858	0.07334	0.0	-3.1	0.10335	6/4/2024	3:01:30 AM
6	0.05000	1	0.39634	0.03355	0.0	8.0	0.04548	6/4/2024	3:02:49 AM
7	0.00000	1	0.03395	0.00391			-0.00303	6/4/2024	3:04:05 AM

Figure : 1 (Nitrite)

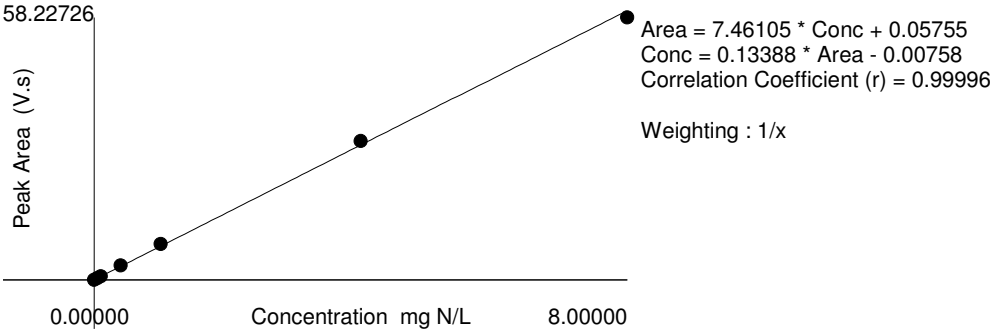
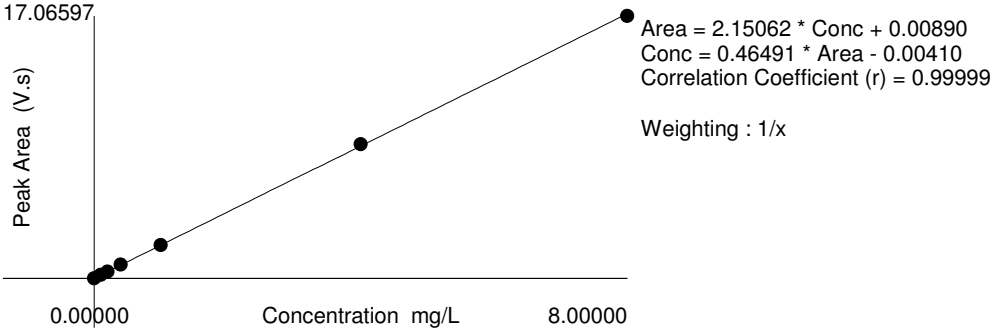


Table : 2 (NO3+NO2)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	8.00000	1	17.06597	1.63971	0.0	0.9	7.93004	6/4/2024	2:47:15 AM
2	4.00000	1	8.72941	0.85577	0.0	-1.4	4.05429	6/4/2024	2:48:34 AM
3	1.00000	1	2.17067	0.21333	0.0	-0.5	1.00506	6/4/2024	2:49:49 AM
4	0.40000	1	0.89325	0.08772	0.0	-2.8	0.41118	6/4/2024	2:51:09 AM
5	0.20000	1	0.42947	0.04287	0.0	2.2	0.19556	6/4/2024	2:52:27 AM
6	0.10000	1	0.22806	0.02172	0.0	-1.8	0.10192	6/4/2024	2:53:46 AM
7	0.00000	1	0.00132	0.00226			-0.00349	6/4/2024	2:55:02 AM

Figure : 2 (NO3+NO2)



Quality Control

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix**	: WATER
Lab Sample ID	: L2430219-04		
Matrix Spike	: WG1929181-4	**MS Analysis Date**	: 06/04/24 05:36
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Nitrogen, Nitrate/Nitrite	0.56	4	4.6	101					80-120	20

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix**	: WATER
Lab Sample ID	: L2430219-04	**Analysis Date**	: 06/04/24 05:33
Dup Sample ID	: WG1929181-3	**DUP Analysis Date**	: 06/04/24 05:35

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Nitrate/Nitrite	0.56	0.55	2	20

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1929181-2	**LCS Analysis Date**	: 06/04/24 03:45
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Nitrogen, Nitrate/Nitrite	5.00	5.30	106.					90-110	20

Date Created: 11/11/21
Created By: Jason Hebert
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WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Nitrate	14797-55-8	0.1	0.0228	mg/l	90-110		83-113	6	6	353.2	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.1	0.0228	mg/l	90-110		83-113	17	17	4500NO3-F	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrite	NONE	0.05	0.0143	mg/l	90-110	20	80-120	20	20	353.2	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrite	NONE	0.05	0.0143	mg/l	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Plastic 250ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Nitrate	14797-55-8	1	0.261	mg/kg	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Glass 250ml/8oz unpreserved
Nitrogen, Nitrite	NONE	1	0.282	mg/kg	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Nitrogen, Nitrate

Aqueous Samples:
Compute sample N in NO3 concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 1 (NO3+NO2) and Channel 2 (NO2)

$$NO3\ mg/I = (NO3+NO2)\ mg/L - (NO2)\ mg/L$$

To compute final results for aqueous samples, multiply the direct reading by the dilution factor (also done using software)

$$(NO3)\text{-}N\ mg/L = mg/L\ direct\ reading \times dilution\ factor$$

Calculations of Nitrogen, Nitrite

Aqueous Samples:
Compute sample N in NO2 concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 2 (NO2)

To compute final results for aqueous samples, multiply the direct reading by the dilution factor (also done using software)

$$(NO2)\text{-}N\ mg/L = mg/L\ direct\ reading \times dilution\ factor$$

Sequence Logs

Date: 060424

Initals: KAF

Syringe Lot: 20230620

Filter Lot: 18048470A

Cup #:	Sample ID:	Comments:
1	**ICV NO3 5**	*Buffer: NO3NO2_060424_BUFFER*
2	**ICV NO2 5**	*Color: NO3NO2_052424_COLOR*
3	**ICV NO3 0.5**	*NO3 MS: NO3_051624_200PPM_CAL*
4	**ICV NO2 0.5**	*NO2 MS: NO2_043024_200PPM_CAL*
5	**ICB**	*ICV NO3 5: NO3_053124_5PPM_ICV*
6	**5X DILUTER CHECK**	*ICV NO2 5: NO2_053124_5PPM_ICV*
7	**BLANK NO3**	*ICV NO3 0.5: NO3_060424_0.5PPM_ICV*
8	**LCS NO3**	*ICV NO2 0.5: NO2_060424_0.5PPM_ICV*
9	**BLANK NO2**	
10	**LCS NO2**	
11	**WG1929173-1; NO2**	*OOH*
12	**WG1929173-2; NO2**	*DW*
13	**WG1929174-1; NO2**	*GOING OOH*
14	**WG1929174-2; NO2**	**FIELD BLANK**
15	**WG1929176-1; NO3/274**	
16	**WG1929176-2; NO3/274**	
17	**WG1929178-1; NO3**	
18	**WG1929178-2; NO3**	
19	**WG1929179/180-1; CNO3**	
20	**WG1929179/180-2; CNO3**	
21	**WG1929181-1; CNO3**	
22	**WG1929181-2; CNO3**	
23	**L2430597-01**	
24	**L2430597-02**	
25	**L2430639-01**	
26	**WG1929176-3; NO3**	
27	**WG1929176-4; NO3**	
28	**WG1929173-3; NO2**	
29	**WG1929173-4; NO2**	
30	**L2430594-01**	
31	**L2430594-02**	
32	**L2430594-03**	
33	**L2430594-04**	
34	**L2430594-05**	
35	**L2430594-06**	
36	**L2430594-07**	
37	**L2430594-08**	
38	**L2430594-09**	
39	**L2430659-01**	
40	**L2430659-02**	
41	**L2430659-03**	
42	**L2430659-04**	
43	**L2430659-07**	

Cup #:	Sample ID:	Comments:
44	**WG1929178-3; NO3**	
45	**WG1929178-4; NO3**	
46	**WG1929174-3; NO2**	
47	**WG1929174-4; NO2**	
48	**L2430659-08**	
49	**L2430659-09**	
50	**WG1929178-5; NO3**	
51	**WG1929174-5; NO2**	
52	**L2430659-10**	
53	**L2429543-01**	
54	**WG1929179-3; CNO3**	
55	**WG1929179-4; CNO3**	
56	**L2429550-01**	
57	**L2429583-01**	
58	**L2429665-01**	
59	**L2429665-02**	
60	**L2429691-01**	
61	**L2429726-01**	
62	**L2429726-02**	
63	**L2429801-01**	
64	**L2429940-01**	
65	**L2429963-01**	
66	**L2429963-02**	
67	**WG1929180-3; CNO3**	
68	**WG1929180-4; CNO3**	
69	**L2429963-03**	
70	**L2429963-04**	
71	**L2429963-05**	
72	**L2429963-06**	
73	**L2429963-07**	
74	**L2429963-08**	
75	**L2430363-01**	
76	**L2430363-02**	
77	**L2430018-01**	
78	**L2430088-02**	
79	**L2430219-01**	
80	**L2430219-02**	
81	**L2430219-03**	
82	**L2430219-04**	
83	**WG1929181-3; CNO3**	
84	**WG1929181-4; CNO3**	
85	**L2430219-05**	
86	**L2430219-06**	
87	**L2430219-07**	
88	**L2430219-08**	
89	**L2430219-09**	

Cup #:	Sample ID:	Comments:		
90	**l2430662-01m**	TRAY 2		
91	**WG1929274-3; NO3**			
92	**WG1929274-4; NO3**			
93	**l2430662-02m**			
94	**l2430662-03m**			
95	**l2430662-04m**			
96	**l2430662-05m**			
97	**l2430662-06m**			
98	**l2430662-07m**			
99	**l2430662-08m**			
100	**l2430662-09m**			
101	**l2430662-10m**			
102	**l2430662-12m**			
103	**WG1929275-1; NO3**		5.0985	0.10197
104	**WG1929275-2; NO3**		5.2004	0.104008
105	**l2430159-01c**		5.3697	0.107394
106	**WG1929275-3; NO3**		5.2655	0.10531
107	**WG1929275-4; NO3**		5.3025	0.10605
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Total Dissolved Solids Analysis

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 03:14
Sample Matrix	: WATER	**Dilution Factor**	: 2
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1929189.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	430	20	6.1	

Form 1
WETCHEM

Client	:	**Alpha Geoscience**	**Lab Number**	:	**L2430219**
Project Name	:	**HUNTINGTON READY MIXED**	**Project Number**	:	**20116**
Lab ID	:	**L2430219-02**	**Date Collected**	:	**05/30/24 11:30**
Client ID	:	**MW-2S**	**Date Received**	:	**05/31/24**
Sample Location	:	**SPEONK, NY**	**Date Analyzed**	:	**06/04/24 03:14**
Sample Matrix	:	**WATER**	**Dilution Factor**	:	**1.3**
Analytical Method	:	**121,2540C**	**Analyst**	:	**DEW**
Lab File ID	:	**WG1929189.pdf**	**Instrument ID**	:	**BALANCE#22**
Sample Amount	:		**%Solids**	:	**N/A**
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Solids, Total Dissolved**	**270**	**13**	**4.0**	

Form 1
WETCHEM

Client	:	**Alpha Geoscience**	**Lab Number**	:	**L2430219**
Project Name	:	**HUNTINGTON READY MIXED**	**Project Number**	:	**20116**
Lab ID	:	**L2430219-03**	**Date Collected**	:	**05/30/24 10:07**
Client ID	:	**MW-3S**	**Date Received**	:	**05/31/24**
Sample Location	:	**SPEONK, NY**	**Date Analyzed**	:	**06/04/24 03:14**
Sample Matrix	:	**WATER**	**Dilution Factor**	:	**1.3**
Analytical Method	:	**121,2540C**	**Analyst**	:	**DEW**
Lab File ID	:	**WG1929189.pdf**	**Instrument ID**	:	**BALANCE#22**
Sample Amount	:		**%Solids**	:	**N/A**
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Solids, Total Dissolved**	**510**	**13**	**4.0**	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 03:14
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1929189.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	250	13	4.0	

Form 1
WETCHEM

Client	:	**Alpha Geoscience**	**Lab Number**	:	**L2430219**
Project Name	:	**HUNTINGTON READY MIXED**	**Project Number**	:	**20116**
Lab ID	:	**L2430219-05**	**Date Collected**	:	**05/30/24 14:28**
Client ID	:	**MW-5S**	**Date Received**	:	**05/31/24**
Sample Location	:	**SPEONK, NY**	**Date Analyzed**	:	**06/04/24 03:14**
Sample Matrix	:	**WATER**	**Dilution Factor**	:	**1.3**
Analytical Method	:	**121,2540C**	**Analyst**	:	**DEW**
Lab File ID	:	**WG1929189.pdf**	**Instrument ID**	:	**BALANCE#22**
Sample Amount	:		**%Solids**	:	**N/A**
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Solids, Total Dissolved**	**59.**	**13**	**4.0**	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 03:14
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1929189.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	650	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 03:14
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1929189.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	480	13	4.0	

Form 1
WETCHEM

Client	:	**Alpha Geoscience**	**Lab Number**	:	**L2430219**
Project Name	:	**HUNTINGTON READY MIXED**	**Project Number**	:	**20116**
Lab ID	:	**L2430219-08**	**Date Collected**	:	**05/30/24 16:10**
Client ID	:	**MW-8S**	**Date Received**	:	**05/31/24**
Sample Location	:	**SPEONK, NY**	**Date Analyzed**	:	**06/04/24 03:14**
Sample Matrix	:	**WATER**	**Dilution Factor**	:	**1.3**
Analytical Method	:	**121,2540C**	**Analyst**	:	**DEW**
Lab File ID	:	**WG1929189.pdf**	**Instrument ID**	:	**BALANCE#22**
Sample Amount	:		**%Solids**	:	**N/A**
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Solids, Total Dissolved**	**290**	**13**	**4.0**	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 03:14
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1929189.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	270	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1929189-1	**Date Collected**	: NA
Client ID	: WG1929189-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/04/24 02:47
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1929189.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	ND	10	3.1	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1929189-3	**Date Collected**	: 05/30/24 11:30
Client ID	: WG1929189-3 DUP	**Date Received**	: 05/30/24
Sample Location	:	**Date Analyzed**	: 06/04/24 02:47
Sample Matrix	: WATER	**Dilution Factor**	: 4
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1929189.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	4800	40	12.	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1929189-4	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4DDUP	**Date Received**	: 05/31/24
Sample Location	:	**Date Analyzed**	: 06/04/24 03:14
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1929189.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	280	13	4.0	

Sample Raw Data

Wet Chemistry Gravimetric ELN

Printed: JUN-05-24 08:05:24

WorkGroup	WG1929189	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**		**Temp In (C)**					
Title	Solids, Total Dissolved	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**		**Temp Out (C)**					
Method	SM2540C	**Time In**	04-JUN-24 21:16	**Time In**	05-JUN-24 04:34	**Time In**	05-JUN-24 06:40	**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	05-JUN-24 03:35	**Time Out**	05-JUN-24 06:36	**Time Out**	05-JUN-24 07:52	**Time Out**		**Time Out**					

Evaporation	**Temp In (C)**	**Time In**
	90	04-JUN-24 07:45

LCS Lot #	**TrueValue**	**Units**
050824C	500	mg/l

Sample #	Analysis Date	Analyst	Cup ID	Filter Lot	Tare Weight (gm)	Sample Volume (ml)	Net Weight (1) (gm)	Net Weight (2) (gm)	Net Weight (3) (gm)	Net Weight (4) (gm)	Net Weight (5) (gm)	Result mg/L	Dil	Comment
L2429869-01	04-JUN-24 02:47	DEB WHELAN	FX	71913376	61.4859	25	61.6043	61.6044				4736.00	4	
L2429903-01	04-JUN-24 02:47	DEB WHELAN	CL	71913376	55.2995	50	55.8952	55.8911	55.8845			11700.00	2	INF
L2429903-02	04-JUN-24 02:47	DEB WHELAN	XC	71913376	64.8333	50	65.3605	65.3587	65.3496			10326.00	2	EFF
L2430041-01	04-JUN-24 02:47	DEB WHELAN	RA	71913376	73.2948	80	73.5379	73.538				3038.75	1.3	
L2430087-01	04-JUN-24 02:47	DEB WHELAN	BF	71913376	103.5196	80	103.5533	103.5536				421.25	1.3	
L2430087-02	04-JUN-24 02:47	DEB WHELAN	MN	71913376	75.2046	80	75.292	75.2923				1092.50	1.3	
L2430183-01	04-JUN-24 02:47	DEB WHELAN	FD	71913376	150.9716	80	150.9832	150.9847	150.9825			136.25	1.3	
L2430183-02	04-JUN-24 02:47	DEB WHELAN	BA	71913376	112.8553	80	112.8703	112.8707				187.50	1.3	
L2430219-01	04-JUN-24 03:14	DEB WHELAN	W12	71913376	64.6661	50	64.6878	64.6882				434.00	2	T2
L2430219-02	04-JUN-24 03:14	DEB WHELAN	B47	71913376	70.366	80	70.3874	70.3878				267.50	1.3	
L2430219-03	04-JUN-24 03:14	DEB WHELAN	A3	71913376	58.0312	80	58.0723	58.0724				513.75	1.3	
L2430219-04	04-JUN-24 03:14	DEB WHELAN	A5	71913376	64.0239	80	64.044	64.0443				251.25	1.3	
L2430219-05	04-JUN-24 03:14	DEB WHELAN	B45	71913376	64.4295	80	64.4345	64.4342				58.75	1.3	
L2430219-06	04-JUN-24 03:14	DEB WHELAN	PA	71913376	72.748	80	72.8003	72.8002				652.50	1.3	
L2430219-07	04-JUN-24 03:14	DEB WHELAN	R2	71913376	79.091	80	79.1299	79.1295				481.25	1.3	
L2430219-08	04-JUN-24 03:14	DEB WHELAN	R1	71913376	61.7374	80	61.7607	61.7615	61.7613			291.25	1.3	
L2430219-09	04-JUN-24 03:14	DEB WHELAN	AAF	71913376	60.277	80	60.2988	60.2997	60.2993			272.50	1.3	
L2430279-01	04-JUN-24 03:14	DEB WHELAN	H8	71913376	64.2797	80	64.2841	64.2843				55.00	1.3	
L2430597-01	04-JUN-24 02:47	DEB WHELAN	BU	71913376	106.5644	80	106.5781	106.5787	106.5783			171.25	1.3	
L2430597-02	04-JUN-24 02:47	DEB WHELAN	MB	71913376	142.468	100	142.4681	142.4678				-2.00	1	TB
WG1929189-1	04-JUN-24 02:47	DEB WHELAN	CE	71913376	62.1705	100	62.1703	62.1704				-2.00	1	T1
WG1929189-2	04-JUN-24 02:47	DEB WHELAN	EZ	71913376	66.4798	50	66.5026	66.503				456.00	2	
WG1929189-3	04-JUN-24 02:47	DEB WHELAN	EF	71913376	57.8401	25	57.9611	57.9615				4840.00	4	

Alpha Analytical

Wet Chemistry Gravimetric ELN

Printed: JUN-05-24 08:05:24

WorkGroup	WG1929189	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**		**Temp In (C)**					
Title	Solids, Total Dissolved	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**		**Temp Out (C)**					
Method	SM2540C	**Time In**	04-JUN-24 21:16	**Time In**	05-JUN-24 04:34	**Time In**	05-JUN-24 06:40	**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	05-JUN-24 03:35	**Time Out**	05-JUN-24 06:36	**Time Out**	05-JUN-24 07:52	**Time Out**		**Time Out**					

Temp In (C)	**Time In**
90	04-JUN-24 07:45

LCS Lot #	**TrueValue**	**Units**
050824C	500	mg/l

Sample #	**Analysis Date**	**Analyst**	**Cup ID**			**Sample Volume (ml)**					**Result mg/L**	**Dil**	**Comment**
WG1929189-4	04-JUN-24 03:14	DEB WHELAN	AA 2	71913376	64.1348	80	64.1575	64.1574			282.50	1.3	

Quality Control

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 06/04/24 02:47
Dup Sample ID	: WG1929189-3	**DUP Analysis Date**	: 06/04/24 02:47

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	4700	4800	2	10

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix**	: WATER
Lab Sample ID	: L2430219-04	**Analysis Date**	: 06/04/24 03:14
Dup Sample ID	: WG1929189-4	**DUP Analysis Date**	: 06/04/24 03:14

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	250	280	11 Q	10

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1929189-2	**LCS Analysis Date**	: 06/04/24 02:47
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Solids, Total Dissolved	**500.**	**460.**	**91.**					**80-120**	**10**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Solids, Total Dissolved	NONE	10	3.07	mg/l	80-120			10	10	2540C	7 days	1 - Plastic 500ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of TDS

$$\text{mgTDS/L} = \frac{(A - B) \times 1000}{\text{Sample volume, (L)}}$$

Where:

A = Final weight (weight of dish + dried residue, g)
B = Initial weight (weight of clean dish, g)

Sulfide Analysis

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 08:40
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500S2-D	**Analyst**	: DBN
Lab File ID	: WG1929774.csv	**Instrument ID**	: GENSYS10VI
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/05/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	Sulfide	ND	0.10	0.10	U

Form 1
WETCHEM

Client	:	**Alpha Geoscience**	**Lab Number**	:	**L2430219**
Project Name	:	**HUNTINGTON READY MIXED**	**Project Number**	:	**20116**
Lab ID	:	**L2430219-02**	**Date Collected**	:	**05/30/24 11:30**
Client ID	:	**MW-2S**	**Date Received**	:	**05/31/24**
Sample Location	:	**SPEONK, NY**	**Date Analyzed**	:	**06/05/24 08:40**
Sample Matrix	:	**WATER**	**Dilution Factor**	:	**1**
Analytical Method	:	**121,4500S2-D**	**Analyst**	:	**DBN**
Lab File ID	:	**WG1929774.csv**	**Instrument ID**	:	**GENSYS10VI**
Sample Amount	:		**%Solids**	:	**N/A**
Digestion Method	:		**Date Digested**	:	**06/05/24**

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	**Sulfide**	**ND**	**0.10**	**0.10**	**U**

Form 1
WETCHEM

Client	:	**Alpha Geoscience**	**Lab Number**	:	**L2430219**
Project Name	:	**HUNTINGTON READY MIXED**	**Project Number**	:	**20116**
Lab ID	:	**L2430219-03**	**Date Collected**	:	**05/30/24 10:07**
Client ID	:	**MW-3S**	**Date Received**	:	**05/31/24**
Sample Location	:	**SPEONK, NY**	**Date Analyzed**	:	**06/05/24 08:41**
Sample Matrix	:	**WATER**	**Dilution Factor**	:	**1**
Analytical Method	:	**121,4500S2-D**	**Analyst**	:	**DBN**
Lab File ID	:	**WG1929774.csv**	**Instrument ID**	:	**GENSYS10VI**
Sample Amount	:		**%Solids**	:	**N/A**
Digestion Method	:		**Date Digested**	:	**06/05/24**

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	**Sulfide**	**ND**	**0.10**	**0.10**	**U**

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 09:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500S2-D	**Analyst**	: DBN
Lab File ID	: WG1929774.csv	**Instrument ID**	: GENSYS10VI
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/05/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	Sulfide	ND	0.10	0.10	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 09:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500S2-D	**Analyst**	: DBN
Lab File ID	: WG1929774.csv	**Instrument ID**	: GENSYS10VI
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/05/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	Sulfide	ND	0.10	0.10	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 09:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500S2-D	**Analyst**	: DBN
Lab File ID	: WG1929774.csv	**Instrument ID**	: GENSYS10VI
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/05/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	Sulfide	ND	0.10	0.10	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 09:16
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500S2-D	**Analyst**	: DBN
Lab File ID	: WG1929774.csv	**Instrument ID**	: GENSYS10VI
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/05/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	Sulfide	ND	0.10	0.10	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 09:16
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500S2-D	**Analyst**	: DBN
Lab File ID	: WG1929774.csv	**Instrument ID**	: GENSYS10VI
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/05/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	Sulfide	ND	0.10	0.10	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 09:17
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500S2-D	**Analyst**	: DBN
Lab File ID	: WG1929774.csv	**Instrument ID**	: GENSYS10VI
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/05/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	Sulfide	ND	0.10	0.10	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1929774-1	**Date Collected**	: NA
Client ID	: WG1929774-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/05/24 08:37
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500S2-D	**Analyst**	: DBN
Lab File ID	: WG1929774.csv	**Instrument ID**	: GENSYS10VI
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/05/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	Sulfide	ND	0.10	0.10	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1929774-3	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3SDUP	**Date Received**	: 05/31/24
Sample Location	:	**Date Analyzed**	: 06/05/24 09:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500S2-D	**Analyst**	: DBN
Lab File ID	: WG1929774.csv	**Instrument ID**	: GENSYS10VI
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/05/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	Sulfide	ND	0.10	0.10	U

Sample Raw Data

ALPHA ANALYTICAL

WET CHEMISTRY DEPARTMENT

Sulfide, Total

Last Change3/5/13
File Sulfide-Total-L.xlt

SOP No.: 07-30

Product: SULFIDE-4500
Curve Calibration Date : 3/13/2024
Curve Identifier: 031324
Analysis: Sulfide, Total
Analyte: Sulfide,
Method: SM 4500S2-AD
Prep Date/Time: 6/5/24 8:21
Instrument: GENSYS10vis
Technician: DBN
Wavelength: 664 nm
Work group: WG1929774
LCS Volume(ml): 1.0
RDL: 0.1 mg/L
LCS Concentration (mg/l): 65.820
Cell: 1 cm

Standard ID ug/100ml	Peak Area abs	Dilution
0	0.000	1.0
5.485	0.047	1.0
10.97	0.095	1.0
21.94	0.186	1.0
43.88	0.348	1.0
87.76	0.676	1.0
131.64	0.934	1.0
175.52	1.213	1.0

Calibration Curve
Volume: 50ml

Slope	y-intercept
0.006920	0.024604599

Correlation Coefficient: 0.998610

ICV/LCS Concentration (mg/l): 0.26

Reagents/Media Information

Material	Lot No.
ICV/LCS:	6/5/2024
CCV:	6/5/2024
MS:	6/5/2024
2N HCl:	2024021536
1N NaOH: 050924_NAOH 1N	
Sulfide 1 Reagent:	R-4157
Sulfide 2 Reagent: R-4158	
0.2N NaOH: 050924_NAOH .2N	

Get Samples
CHOOSE M
SN14500
SN14500 (PPB)

Time	Date	Sample number	Sample Volume (ml)		Absorbance	Conc. (ug S/100ml)	Coloring Dilution Factor		RDL Multiplier	FINAL RESULT (mg/l)	Recovery
8:36	6/5/2024	ICV	250		0.495	67.976	1		1.0	0.27	104%
8:36	6/5/2024	ICB	250		0	0.000	1		1.0	0.00	
8:37	6/5/2024	BLANK	250		0	0.000	1		1.0	0.00	Recovery
8:38	6/5/2024	LCS	250		0.378	51.069	1		1.0	0.20	77%
8:38	6/5/2024	L2429869-01	270		1.083	152.947	1		1.0	0.57	
8:39	6/5/2024	L2430087-01	270		0.008	0.000	1		1.0	0.00	
8:39	6/5/2024	L2430087-02	280		0.01	0.000	1		1.0	0.00	
8:40	6/5/2024	L2430219-01	270		0	0.000	1		1.0	0.00	
8:41	6/5/2024	CCV	250		0.443	60.462	1		1.0	0.24	92%
8:37	6/5/2024	CCB	250		0	0.000	1		1.0	0.00	
8:40	6/5/2024	L2430219-02	265		0.005	0.000	1		1.0	0.00	
8:41	6/5/2024	L2430219-03	270		0.001	0.000	1		1.0	0.00	
9:13	6/5/2024	L2430219-04	270		0.009	0.000	1		1.0	0.00	
9:15	6/5/2024	L2430219-05	270		0.009	0.000	1		1.0	0.00	
9:15	6/5/2024	L2430219-06	270		0.001	0.000	1		1.0	0.00	
9:16	6/5/2024	L2430219-07	270		0.005	0.000	1		1.0	0.00	
9:16	6/5/2024	L2430219-08	270		0.002	0.000	1		1.0	0.00	
9:17	6/5/2024	L2430219-09	275		0.001	0.000	1		1.0	0.00	
8:41	6/5/2024	CCV	250		0.443	60.462	1		1.0	0.24	92%
8:37	6/5/2024	CCB	250		0	0.000	1		1.0	0.00	
8:37	6/5/2024	WG1929774-1	250		0	0.000	1		1.0	0.00	
9:13	6/5/2024	WG1929774-3	270		0.003	0.000	1		1.0	0.00	DUP

		Sample number	Sample volume		Absorbance	Sample Result mg/l	Dilution Factor	Spike conc. mg/l	RDL Multiplier	Spike Result mg/l	Recovery %
9:14	6/5/2024	WG1929774-4	270		0.606		1	0.49	1.0	0.31	63
							1	0.00			
8:37	6/5/2024	WG1929774-2	250		0.378		1	0.26	1.0	0.20	77%

COMMENTS & OBSERVATIONS	SAMPLE RESULT
	ICV
	ICB
	L2429869-01
	L2430087-01
	L2430087-02
	L2430219-01
	CCV
	CCB
	L2430219-06
	L2430219-07
	L2430219-08
	L2430219-09
	CCV
	CCB
	WG1929774-1
L2430219-03	WG1929774-3

L2430219-04	WG1929774-4
	0
LCS	WG1929774-2

Quality Control

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix**	: WATER
Lab Sample ID	: L2430219-04		
Matrix Spike	: WG1929774-4	**MS Analysis Date**	: 06/05/24 09:14
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Sulfide	ND	0.49	0.31	63	Q					70-130	20

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-3S	**Matrix**	: WATER
Lab Sample ID	: L2430219-03	**Analysis Date**	: 06/05/24 08:41
Dup Sample ID	: WG1929774-3	**DUP Analysis Date**	: 06/05/24 09:13

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Sulfide	ND	ND	NC	20

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1929774-2	**LCS Analysis Date**	: 06/05/24 08:37
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Sulfide	0.260	0.200	77.					75-125	20

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Sulfide	18496-25-8	0.1	0.1	mg/l	75-125		70-130	20	20	4500S2-D	7 days	2 - Plastic 250ml Zn Acetate/NaOH preserved
Sulfide	18496-25-8	0.1	0.1	mg/l	75-125		70-130	20	20	9030B	7 days	2 - Plastic 250ml Zn Acetate/NaOH preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Sulfide	18496-25-8	0.5	0.156	mg/kg	75-125	25	70-130	25	25	9030B	7 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Total Sulfide

Aqueous samples:

Calculate the concentration value of the sample (in mgS/100ml) directly from the standard curve.

$$\text{mgS/100ml} = \frac{\text{absorbance - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

Calculate the final concentration value of Sulfide in the sample:

$$\text{mgS/L} = \frac{\text{mgS/100ml}}{\text{Sample volume (ml)}}$$

Alkalinity Analysis

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 08:32
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240606_WG1930503	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	207.	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 08:38
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240606_WG1930503	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	239.	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 13:21
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRM
Lab File ID	: 240607-1	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	49.1	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 08:46
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240606_WG1930503	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	18.8	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 08:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240606_WG1930503	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	351.	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 08:57
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240606_WG1930503	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	225.	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 09:02
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240606_WG1930503	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	80.3	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 09:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240606_WG1930503	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	82.2	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1930503-1	**Date Collected**	: NA
Client ID	: WG1930503-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/06/24 16:16
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240606_WG1930503	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1930503-2	**Date Collected**	: 05/30/24 00:00
Client ID	: DUPDUP	**Date Received**	: 05/31/24
Sample Location	:	**Date Analyzed**	: 06/06/24 09:08
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240606_WG1930503	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
71-52-3	Alkalinity, Bicarbonate	83.3	2.00	NA	
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1931253-1	**Date Collected**	: NA
Client ID	: WG1931253-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/07/24 12:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRM
Lab File ID	: 240607-1	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1931253-2	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4DDUP	**Date Received**	: 05/31/24
Sample Location	:	**Date Analyzed**	: 06/07/24 13:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRM
Lab File ID	: 240607-1	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
71-52-3	Alkalinity, Bicarbonate	50.8	2.00	NA	
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 07:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: WG1931179.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	30.4	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1931179-1	**Date Collected**	: NA
Client ID	: WG1931179-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/06/24 07:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: WG1931179.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1931179-2	**Date Collected**	: 03/12/24 00:00
Client ID	: WG1931179-2 DUP	**Date Received**	: 03/12/24
Sample Location	:	**Date Analyzed**	: 06/06/24 07:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: WG1931179.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/06/24 07:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: WG1931178.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
71-52-3	Alkalinity, Bicarbonate	12.3	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1931178-1	**Date Collected**	: NA
Client ID	: WG1931178-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/06/24 07:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: WG1931178.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
71-52-3	Alkalinity, Bicarbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1931178-2	**Date Collected**	: 03/12/24 00:00
Client ID	: WG1931178-2 DUP	**Date Received**	: 03/12/24
Sample Location	:	**Date Analyzed**	: 06/06/24 07:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: WG1931178.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
71-52-3	Alkalinity, Bicarbonate	83.3	2.00	NA	

Sample Raw Data

Results Editor

LabX

Result Overview

Sample start t	Zero poin	Unit of Ze	Data marl	Slope 1 (C	Unit of Sl	Data marl	Sensor ty	List of sta	Standard	Comment	Temperat
	7.003	pH		-57.45	mV/pH						

Results Editor

LabX

Result Overview

Sample ID1	Potentia	Unit of P	Data ma	Sample start	Volume	Unit of V	Density [	Unit of D	Cor	Uni	Tempera	Unit of T	Commer
--	7.02	pH		6/6/2024 7:	0	mL	1.0	g/mL	1.0		25.0	°C	

Titration report

Method

Method ID	Alk Total (2)	**Release state**	Released
Name	EP/EP	**Modified by**	SystemInternal
Modified on	10/14/2023 11:44:43 AM		

Summary

Samples

	Sample ID	Name	Result	State
1	Rinse,MKT	Sample size	50 mL	
		Potential R4	6.89 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.928 mL	OK
		Consumption 4.2 R3	0.933 mL	OK
		Content R5	18.560 mg/L	OK
		ALK LOW R6	18.460 mg/L	OK
2	Rinse,MKT	Sample size	50 mL	
		Potential R4	4.53 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.019 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
3	WG1930500-1	Sample size	50 mL	
		Potential R4	4.21 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.000 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
4	WG1930500-2	Sample size	50 mL	
		Potential R4	10.96 pH	OK
		Consumption 8.3 R1	4.853 mL	OK
		Consumption 4.5 R2	5.231 mL	OK
		Consumption 4.2 R3	5.236 mL	OK
		Content R5	104.620 mg/L	OK
		ALK LOW R6	104.520 mg/L	OK
5	L2430269-07	Sample size	50 mL	
		Potential R4	6.11 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
6	L2430269-08	Sample size	50 mL	

Titration report

		Potential R4	7.25 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
7	L2430269-09	Sample size	50 mL	
		Potential R4	6.23 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.924 mL	OK
		Consumption 4.2 R3	7.007 mL	OK
		Content R5	138.480 mg/L	OK
		ALK LOW R6	136.820 mg/L	OK
8	L2430285-01	Sample size	50 mL	
		Potential R4	5.23 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.325 mL	OK
		Consumption 4.2 R3	0.364 mL	OK
		Content R5	6.500 mg/L	OK
		ALK LOW R6	5.720 mg/L	OK
9	WG1930500-3	Sample size	50 mL	
		Potential R4	4.93 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.273 mL	OK
		Consumption 4.2 R3	0.317 mL	OK
		Content R5	5.460 mg/L	OK
		ALK LOW R6	4.580 mg/L	OK
10	WG1930500-4	Sample size	50 mL	
		Potential R4	11.13 pH	OK
		Consumption 8.3 R1	5.343 mL	OK
		Consumption 4.5 R2	5.847 mL	OK
		Consumption 4.2 R3	5.851 mL	OK
		Content R5	116.940 mg/L	OK
		ALK LOW R6	116.860 mg/L	OK
11	L2430219-01	Sample size	50 mL	
		Potential R4	8.45 pH	OK
		Consumption 8.3 R1	0.761 mL	OK
		Consumption 4.5 R2	2.137 mL	OK
		Consumption 4.2 R3	2.146 mL	OK
		Content R5	42.740 mg/L	OK
		ALK LOW R6	42.560 mg/L	OK
12	L2430219-02	Sample size	50 mL	
		Potential R4	6.09 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	10.343 mL	OK
		Consumption 4.2 R3	10.440 mL	OK
		Content R5	206.860 mg/L	OK

Titration report

		ALK LOW R6	204.920 mg/L	OK
13	L2430219-03	Sample size	50 mL	
		Potential R4	6.07 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	11.941 mL	OK
		Consumption 4.2 R3	12.066 mL	OK
		Content R5	238.820 mg/L	OK
		ALK LOW R6	236.320 mg/L	OK
14	L2430219-04	Sample size	50 mL	
		Potential R4	5.64 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.401 mL	OK
		Consumption 4.2 R3	2.415 mL	OK
		Content R5	48.020 mg/L	OK
		ALK LOW R6	47.740 mg/L	OK
15	L2430219-05	Sample size	50 mL	
		Potential R4	5.53 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.951 mL	OK
		Consumption 4.2 R3	0.962 mL	OK
		Content R5	19.020 mg/L	OK
		ALK LOW R6	18.800 mg/L	OK
16	L2430219-06	Sample size	50 mL	
		Potential R4	6.10 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	17.562 mL	OK
		Consumption 4.2 R3	17.756 mL	OK
		Content R5	351.240 mg/L	OK
		ALK LOW R6	347.360 mg/L	OK
17	L2430219-07	Sample size	50 mL	
		Potential R4	6.02 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	11.274 mL	OK
		Consumption 4.2 R3	11.406 mL	OK
		Content R5	225.480 mg/L	OK
		ALK LOW R6	222.840 mg/L	OK
18	L2430219-08	Sample size	50 mL	
		Potential R4	5.95 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.016 mL	OK
		Consumption 4.2 R3	4.050 mL	OK
		Content R5	80.320 mg/L	OK
		ALK LOW R6	79.640 mg/L	OK
19	L2430219-09	Sample size	50 mL	
		Potential R4	5.91 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.109 mL	OK

Titration report

		Consumption 4.2 R3	4.140 mL	OK
		Content R5	82.180 mg/L	OK
		ALK LOW R6	81.560 mg/L	OK
20	WG1930503-2	Sample size	50 mL	
		Potential R4	6.00 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.165 mL	OK
		Consumption 4.2 R3	4.198 mL	OK
		Content R5	83.300 mg/L	OK
		ALK LOW R6	82.640 mg/L	OK
21	L2430152-01	Sample size	50 mL	
		Potential R4	5.50 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.977 mL	OK
		Consumption 4.2 R3	3.098 mL	OK
		Content R5	59.540 mg/L	OK
		ALK LOW R6	57.120 mg/L	OK
22	L2430152-02	Sample size	50 mL	
		Potential R4	5.91 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.856 mL	OK
		Consumption 4.2 R3	5.929 mL	OK
		Content R5	117.120 mg/L	OK
		ALK LOW R6	115.660 mg/L	OK
23	L2430152-03	Sample size	50 mL	
		Potential R4	5.82 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.311 mL	OK
		Consumption 4.2 R3	3.340 mL	OK
		Content R5	66.220 mg/L	OK
		ALK LOW R6	65.640 mg/L	OK
24	L2430152-04	Sample size	50 mL	
		Potential R4	5.81 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.337 mL	OK
		Consumption 4.2 R3	3.363 mL	OK
		Content R5	66.740 mg/L	OK
		ALK LOW R6	66.220 mg/L	OK
25	L2430152-05	Sample size	50 mL	
		Potential R4	6.02 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	9.363 mL	OK
		Consumption 4.2 R3	9.468 mL	OK
		Content R5	187.260 mg/L	OK
		ALK LOW R6	185.160 mg/L	OK
26	L2430152-06	Sample size	50 mL	
		Potential R4	5.28 pH	OK

Titration report

		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.552 mL	OK
		Consumption 4.2 R3	0.565 mL	OK
		Content R5	11.040 mg/L	OK
		ALK LOW R6	10.780 mg/L	OK
27	WG1930505-3	Sample size	50 mL	
		Potential R4	5.24 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.559 mL	OK
		Consumption 4.2 R3	0.577 mL	OK
		Content R5	11.180 mg/L	OK
		ALK LOW R6	10.820 mg/L	OK
28	WG1930505-4	Sample size	50 mL	
		Potential R4	10.18 pH	OK
		Consumption 8.3 R1	3.941 mL	OK
		Consumption 4.5 R2	5.796 mL	OK
		Consumption 4.2 R3	5.800 mL	OK
		Content R5	115.920 mg/L	OK
		ALK LOW R6	115.840 mg/L	OK
29	L2430152-07	Sample size	50 mL	
		Potential R4	5.31 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.124 mL	OK
		Consumption 4.2 R3	1.155 mL	OK
		Content R5	22.480 mg/L	OK
		ALK LOW R6	21.860 mg/L	OK
30	L2430152-08	Sample size	50 mL	
		Potential R4	5.36 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.672 mL	OK
		Consumption 4.2 R3	0.684 mL	OK
		Content R5	13.440 mg/L	OK
		ALK LOW R6	13.200 mg/L	OK
31	L2430269-07 2x+10	Sample size	50 mL	
		Potential R4	5.86 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	9.820 mL	OK
		Consumption 4.2 R3	9.922 mL	OK
		Content R5	196.400 mg/L	OK
		ALK LOW R6	194.360 mg/L	OK
32	L2430269-08 2x+10	Sample size	50 mL	
		Potential R4	5.76 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.333 mL	OK
		Consumption 4.2 R3	9.099 mL	OK
		Content R5	86.660 mg/L	OK
		ALK LOW R6	-8.660 mg/L	OK

Titration report

33	L2429798-07	Sample size	50 mL	
		Potential R4	5.42 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.129 mL	OK
		Consumption 4.2 R3	0.139 mL	OK
		Content R5	2.580 mg/L	OK
		ALK LOW R6	2.380 mg/L	OK
34	ccv	Sample size	50 mL	
		Potential R4	11.17 pH	OK
		Consumption 8.3 R1	4.676 mL	OK
		Consumption 4.5 R2	5.012 mL	OK
		Consumption 4.2 R3	5.013 mL	OK
		Content R5	100.240 mg/L	OK
		ALK LOW R6	100.220 mg/L	OK
35	ccb	Sample size	50 mL	
		Potential R4	5.17 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.041 mL	OK
		Consumption 4.2 R3	0.047 mL	OK
		Content R5	0.820 mg/L	OK
		ALK LOW R6	0.700 mg/L	OK
36	--	Sample size	50 mL [12,15]	

Statistics

R1

Mean	NaN mL		
Maximum	5.343 mL	**Minimum**	0.761 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	35	**Samples excluded**	0

R2

Mean	NaN mL		
Maximum	17.562 mL	**Minimum**	0.041 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	35	**Samples excluded**	0

R3

Mean	NaN mL		
Maximum	17.756 mL	**Minimum**	0.000 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	35	**Samples excluded**	0

R4

Mean	6.37 pH

Titration report

Maximum	11.17 pH	**Minimum**	4.21 pH
Standard deviation	1.80 pH	**Rel. standard deviation**	28.172 %
Total samples	35	**Samples excluded**	0

R5

Mean	NaN mg/L		
Maximum	351.240 mg/L	**Minimum**	0.820 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	35	**Samples excluded**	0

R6

Mean	NaN mg/L		
Maximum	347.360 mg/L	**Minimum**	-8.660 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	35	**Samples excluded**	0

Used Instruments

Name	T7 Excellence Titrator	**Serial number**	C329519495

Responsible User

Time	Login name	Full name
6/6/2024 7:54:22 AM	SystemInternal	System internal account

(12) Unfinished sample
(15) Termination due to error
(17) Data compression on instrument occurred

Titration report

Method

Method ID	pH Cal. 7 4 10	**Release state**	Released
Name	Calibration	**Modified by**	SystemInternal
Modified on	10/3/2023 12:47:09 PM		

Summary

Samples

	Sample ID	Name	Result	State
1	METTLER TOLEDO (Ref. 25°C) pH	pH	7.00	
2	METTLER TOLEDO (Ref. 25°C) pH	pH	4.01	
3	METTLER TOLEDO (Ref. 25°C) pH	pH	10.00	

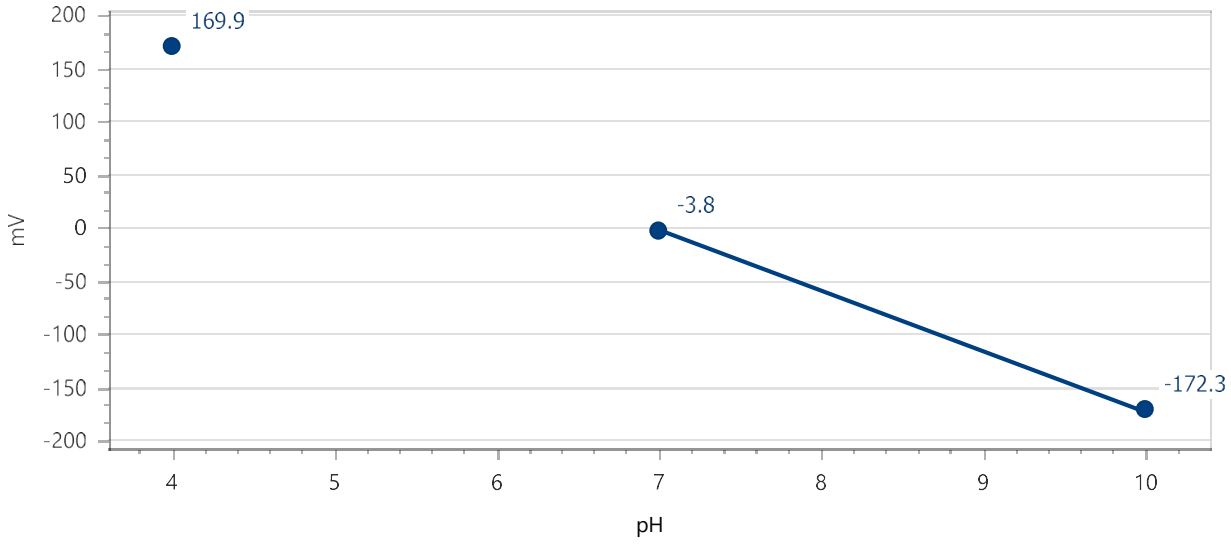
Results

Zero point 1 Cal1.Z1	6.967 pH
Slope 1 Cal1.S1	-57.13 mV/pH

Calibration

Sensor	Sensor DG111-SC
Creation time	6/7/2024 12:40:38 PM
Overall state	OK
Successful	Yes
Calib. temperature	25.0 °C
SLOPECal	-57.13 mV/pH
ZEROCal	6.967 pH

Calibration Curve



Used Instruments

Titration report

Name	T7 Excellence Titrator	**Serial number**	C329519495

Responsible User

Time	Login name	Full name
6/7/2024 12:35:47 PM	SystemInternal	System internal account

Titration report

Method

Method ID	pH Measure	**Release state**	Released
Name	Measure	**Modified by**	SystemInternal
Modified on	2/23/2024 9:31:05 AM		

Summary

Samples

	Sample ID	Name	Result	State
1	--	Sample size	0 mL	
		Potential R1	7.03 pH	OK

Used Instruments

Name	T7 Excellence Titrator	**Serial number**	C329519495

Responsible User

Time	Login name	Full name
6/7/2024 12:36:16 PM	SystemInternal	System internal account

Calibration report

LabX

Method

Method ID	Alk Total (2)	**Release state**	Released
Name	EP/EP	**Modified by**	SystemInternal
Modified on	10/14/2023 11:44:43 AM		

Summary

Samples

	Sample ID	Name	Result	State
1	Rinse,MRM	Sample size	50 mL	
		Potential R4	6.90 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.959 mL	OK
		Consumption 4.2 R3	0.961 mL	OK
		Content R5	19.180 mg/L	OK
		ALK LOW R6	19.140 mg/L	OK
2	Rinse,MRM	Sample size	50 mL	
		Potential R4	5.41 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.128 mL	OK
		Consumption 4.2 R3	0.138 mL	OK
		Content R5	2.560 mg/L	OK
		ALK LOW R6	2.360 mg/L	OK
3	ICB	Sample size	50 mL	
		Potential R4	5.00 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.045 mL	OK
		Consumption 4.2 R3	0.051 mL	OK
		Content R5	0.900 mg/L	OK
		ALK LOW R6	0.780 mg/L	OK
4	ICV	Sample size	50 mL	
		Potential R4	10.98 pH	OK
		Consumption 8.3 R1	4.693 mL	OK
		Consumption 4.5 R2	5.044 mL	OK
		Consumption 4.2 R3	5.047 mL	OK
		Content R5	100.880 mg/L	OK
		ALK LOW R6	100.820 mg/L	OK
5	L2429726-01	Sample size	50 mL	
		Potential R4	6.91 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
6	L2429726-02	Sample size	50 mL	

Calibration report

		Potential R4	6.74 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	19.556 mL	OK
		Consumption 4.2 R3	19.806 mL	OK
		Content R5	391.120 mg/L	OK
		ALK LOW R6	386.120 mg/L	OK
7	L2429726-01 2.5x	Sample size	50 mL	
		Potential R4	6.62 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	16.138 mL	OK
		Consumption 4.2 R3	16.305 mL	OK
		Content R5	322.760 mg/L	OK
		ALK LOW R6	319.420 mg/L	OK
8	L2430219-04	Sample size	50 mL	
		Potential R4	5.49 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.454 mL	OK
		Consumption 4.2 R3	2.468 mL	OK
		Content R5	49.080 mg/L	OK
		ALK LOW R6	48.800 mg/L	OK
9	DUP	Sample size	50 mL	
		Potential R4	5.56 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.541 mL	OK
		Consumption 4.2 R3	2.555 mL	OK
		Content R5	50.820 mg/L	OK
		ALK LOW R6	50.540 mg/L	OK
10	MS	Sample size	50 mL	
		Potential R4	10.27 pH	OK
		Consumption 8.3 R1	4.749 mL	OK
		Consumption 4.5 R2	8.115 mL	OK
		Consumption 4.2 R3	8.135 mL	OK
		Content R5	162.300 mg/L	OK
		ALK LOW R6	161.900 mg/L	OK
11	CCV	Sample size	50 mL	
		Potential R4	11.08 pH	OK
		Consumption 8.3 R1	4.887 mL	OK
		Consumption 4.5 R2	5.232 mL	OK
		Consumption 4.2 R3	5.238 mL	OK
		Content R5	104.640 mg/L	OK
		ALK LOW R6	104.520 mg/L	OK
12	CCB	Sample size	50 mL	
		Potential R4	4.62 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.004 mL	OK
		Consumption 4.2 R3	0.028 mL	OK
		Content R5	0.080 mg/L	OK

Calibration report

	ALK LOW R6	-0.400 mg/L	OK

Used Instruments

Name T7 Excellence Titrator **Serial number** C329519495

Responsible User

Time	Login name	Full name
6/7/2024 12:37:12 PM	SystemInternal	System internal account

Results Editor

LabX

Result Overview

Sample start t	Zero poin	Unit of Ze	Data marl	Slope 1 (C	Unit of Sl	Data marl	Sensor ty	List of sta	Standard	Comment	Temperat
	7.003	pH		-57.45	mV/pH						

Results Editor

LabX

Result Overview

Sample ID1	Potentia	Unit of P	Data ma	Sample start	Volume	Unit of V	Density [	Unit of D	Cor	Uni	Tempera	Unit of T	Commer
--	7.02	pH		6/6/2024 7:	0	mL	1.0	g/mL	1.0		25.0	°C	

Titration report

Method

Method ID	Alk Total (2)	**Release state**	Released
Name	EP/EP	**Modified by**	SystemInternal
Modified on	10/14/2023 11:44:43 AM		

Summary

Samples

	Sample ID	Name	Result	State
1	Rinse,MKT	Sample size	50 mL	
		Potential R4	6.89 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.928 mL	OK
		Consumption 4.2 R3	0.933 mL	OK
		Content R5	18.560 mg/L	OK
		ALK LOW R6	18.460 mg/L	OK
2	Rinse,MKT	Sample size	50 mL	
		Potential R4	4.53 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.019 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
3	WG1930500-1	Sample size	50 mL	
		Potential R4	4.21 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.000 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
4	WG1930500-2	Sample size	50 mL	
		Potential R4	10.96 pH	OK
		Consumption 8.3 R1	4.853 mL	OK
		Consumption 4.5 R2	5.231 mL	OK
		Consumption 4.2 R3	5.236 mL	OK
		Content R5	104.620 mg/L	OK
		ALK LOW R6	104.520 mg/L	OK
5	L2430269-07	Sample size	50 mL	
		Potential R4	6.11 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
6	L2430269-08	Sample size	50 mL	

Titration report

		Potential R4	7.25 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
7	L2430269-09	Sample size	50 mL	
		Potential R4	6.23 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.924 mL	OK
		Consumption 4.2 R3	7.007 mL	OK
		Content R5	138.480 mg/L	OK
		ALK LOW R6	136.820 mg/L	OK
8	L2430285-01	Sample size	50 mL	
		Potential R4	5.23 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.325 mL	OK
		Consumption 4.2 R3	0.364 mL	OK
		Content R5	6.500 mg/L	OK
		ALK LOW R6	5.720 mg/L	OK
9	WG1930500-3	Sample size	50 mL	
		Potential R4	4.93 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.273 mL	OK
		Consumption 4.2 R3	0.317 mL	OK
		Content R5	5.460 mg/L	OK
		ALK LOW R6	4.580 mg/L	OK
10	WG1930500-4	Sample size	50 mL	
		Potential R4	11.13 pH	OK
		Consumption 8.3 R1	5.343 mL	OK
		Consumption 4.5 R2	5.847 mL	OK
		Consumption 4.2 R3	5.851 mL	OK
		Content R5	116.940 mg/L	OK
		ALK LOW R6	116.860 mg/L	OK
11	L2430219-01	Sample size	50 mL	
		Potential R4	8.45 pH	OK
		Consumption 8.3 R1	0.761 mL	OK
		Consumption 4.5 R2	2.137 mL	OK
		Consumption 4.2 R3	2.146 mL	OK
		Content R5	42.740 mg/L	OK
		ALK LOW R6	42.560 mg/L	OK
12	L2430219-02	Sample size	50 mL	
		Potential R4	6.09 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	10.343 mL	OK
		Consumption 4.2 R3	10.440 mL	OK
		Content R5	206.860 mg/L	OK

Titration report

		ALK LOW R6	204.920 mg/L	OK
13	L2430219-03	Sample size	50 mL	
		Potential R4	6.07 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	11.941 mL	OK
		Consumption 4.2 R3	12.066 mL	OK
		Content R5	238.820 mg/L	OK
		ALK LOW R6	236.320 mg/L	OK
14	L2430219-04	Sample size	50 mL	
		Potential R4	5.64 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.401 mL	OK
		Consumption 4.2 R3	2.415 mL	OK
		Content R5	48.020 mg/L	OK
		ALK LOW R6	47.740 mg/L	OK
15	L2430219-05	Sample size	50 mL	
		Potential R4	5.53 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.951 mL	OK
		Consumption 4.2 R3	0.962 mL	OK
		Content R5	19.020 mg/L	OK
		ALK LOW R6	18.800 mg/L	OK
16	L2430219-06	Sample size	50 mL	
		Potential R4	6.10 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	17.562 mL	OK
		Consumption 4.2 R3	17.756 mL	OK
		Content R5	351.240 mg/L	OK
		ALK LOW R6	347.360 mg/L	OK
17	L2430219-07	Sample size	50 mL	
		Potential R4	6.02 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	11.274 mL	OK
		Consumption 4.2 R3	11.406 mL	OK
		Content R5	225.480 mg/L	OK
		ALK LOW R6	222.840 mg/L	OK
18	L2430219-08	Sample size	50 mL	
		Potential R4	5.95 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.016 mL	OK
		Consumption 4.2 R3	4.050 mL	OK
		Content R5	80.320 mg/L	OK
		ALK LOW R6	79.640 mg/L	OK
19	L2430219-09	Sample size	50 mL	
		Potential R4	5.91 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.109 mL	OK

Titration report

		Consumption 4.2 R3	4.140 mL	OK
		Content R5	82.180 mg/L	OK
		ALK LOW R6	81.560 mg/L	OK
20	WG1930503-2	Sample size	50 mL	
		Potential R4	6.00 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.165 mL	OK
		Consumption 4.2 R3	4.198 mL	OK
		Content R5	83.300 mg/L	OK
		ALK LOW R6	82.640 mg/L	OK
21	L2430152-01	Sample size	50 mL	
		Potential R4	5.50 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.977 mL	OK
		Consumption 4.2 R3	3.098 mL	OK
		Content R5	59.540 mg/L	OK
		ALK LOW R6	57.120 mg/L	OK
22	L2430152-02	Sample size	50 mL	
		Potential R4	5.91 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.856 mL	OK
		Consumption 4.2 R3	5.929 mL	OK
		Content R5	117.120 mg/L	OK
		ALK LOW R6	115.660 mg/L	OK
23	L2430152-03	Sample size	50 mL	
		Potential R4	5.82 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.311 mL	OK
		Consumption 4.2 R3	3.340 mL	OK
		Content R5	66.220 mg/L	OK
		ALK LOW R6	65.640 mg/L	OK
24	L2430152-04	Sample size	50 mL	
		Potential R4	5.81 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.337 mL	OK
		Consumption 4.2 R3	3.363 mL	OK
		Content R5	66.740 mg/L	OK
		ALK LOW R6	66.220 mg/L	OK
25	L2430152-05	Sample size	50 mL	
		Potential R4	6.02 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	9.363 mL	OK
		Consumption 4.2 R3	9.468 mL	OK
		Content R5	187.260 mg/L	OK
		ALK LOW R6	185.160 mg/L	OK
26	L2430152-06	Sample size	50 mL	
		Potential R4	5.28 pH	OK

Titration report

		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.552 mL	OK
		Consumption 4.2 R3	0.565 mL	OK
		Content R5	11.040 mg/L	OK
		ALK LOW R6	10.780 mg/L	OK
27	WG1930505-3	Sample size	50 mL	
		Potential R4	5.24 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.559 mL	OK
		Consumption 4.2 R3	0.577 mL	OK
		Content R5	11.180 mg/L	OK
		ALK LOW R6	10.820 mg/L	OK
28	WG1930505-4	Sample size	50 mL	
		Potential R4	10.18 pH	OK
		Consumption 8.3 R1	3.941 mL	OK
		Consumption 4.5 R2	5.796 mL	OK
		Consumption 4.2 R3	5.800 mL	OK
		Content R5	115.920 mg/L	OK
		ALK LOW R6	115.840 mg/L	OK
29	L2430152-07	Sample size	50 mL	
		Potential R4	5.31 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.124 mL	OK
		Consumption 4.2 R3	1.155 mL	OK
		Content R5	22.480 mg/L	OK
		ALK LOW R6	21.860 mg/L	OK
30	L2430152-08	Sample size	50 mL	
		Potential R4	5.36 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.672 mL	OK
		Consumption 4.2 R3	0.684 mL	OK
		Content R5	13.440 mg/L	OK
		ALK LOW R6	13.200 mg/L	OK
31	L2430269-07 2x+10	Sample size	50 mL	
		Potential R4	5.86 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	9.820 mL	OK
		Consumption 4.2 R3	9.922 mL	OK
		Content R5	196.400 mg/L	OK
		ALK LOW R6	194.360 mg/L	OK
32	L2430269-08 2x+10	Sample size	50 mL	
		Potential R4	5.76 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.333 mL	OK
		Consumption 4.2 R3	9.099 mL	OK
		Content R5	86.660 mg/L	OK
		ALK LOW R6	-8.660 mg/L	OK

Titration report

33	L2429798-07	Sample size	50 mL	
		Potential R4	5.42 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.129 mL	OK
		Consumption 4.2 R3	0.139 mL	OK
		Content R5	2.580 mg/L	OK
		ALK LOW R6	2.380 mg/L	OK
34	ccv	Sample size	50 mL	
		Potential R4	11.17 pH	OK
		Consumption 8.3 R1	4.676 mL	OK
		Consumption 4.5 R2	5.012 mL	OK
		Consumption 4.2 R3	5.013 mL	OK
		Content R5	100.240 mg/L	OK
		ALK LOW R6	100.220 mg/L	OK
35	ccb	Sample size	50 mL	
		Potential R4	5.17 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.041 mL	OK
		Consumption 4.2 R3	0.047 mL	OK
		Content R5	0.820 mg/L	OK
		ALK LOW R6	0.700 mg/L	OK
36	--	Sample size	50 mL [12,15]	

Statistics

R1

Mean	NaN mL		
Maximum	5.343 mL	**Minimum**	0.761 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	35	**Samples excluded**	0

R2

Mean	NaN mL		
Maximum	17.562 mL	**Minimum**	0.041 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	35	**Samples excluded**	0

R3

Mean	NaN mL		
Maximum	17.756 mL	**Minimum**	0.000 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	35	**Samples excluded**	0

R4

Mean	6.37 pH

Titration report

Maximum	11.17 pH	**Minimum**	4.21 pH
Standard deviation	1.80 pH	**Rel. standard deviation**	28.172 %
Total samples	35	**Samples excluded**	0

R5

Mean	NaN mg/L		
Maximum	351.240 mg/L	**Minimum**	0.820 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	35	**Samples excluded**	0

R6

Mean	NaN mg/L		
Maximum	347.360 mg/L	**Minimum**	-8.660 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	35	**Samples excluded**	0

Used Instruments

Name	T7 Excellence Titrator	**Serial number**	C329519495

Responsible User

Time	Login name	Full name
6/6/2024 7:54:22 AM	SystemInternal	System internal account

(12) Unfinished sample
(15) Termination due to error
(17) Data compression on instrument occurred

Results Editor

LabX

Result Overview

Sample start t	Zero poin	Unit of Ze	Data marl	Slope 1 (C	Unit of Sl	Data marl	Sensor ty	List of sta	Standard	Comment	Temperat
	7.003	pH		-57.45	mV/pH						

Results Editor

LabX

Result Overview

Sample ID1	Potentia	Unit of P	Data ma	Sample start	Volume	Unit of V	Density [	Unit of D	Cor	Uni	Tempera	Unit of T	Commer
--	7.02	pH		6/6/2024 7:	0	mL	1.0	g/mL	1.0		25.0	°C	

Titration report

LabX

Method

Method ID	Alk Total (2)	**Release state**	Released
Name	EP/EP	**Modified by**	SystemInternal
Modified on	10/14/2023 11:44:43 AM		

Summary

Samples

	Sample ID	Name	Result	State
1	Rinse,MKT	Sample size	50 mL	
		Potential R4	6.89 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.928 mL	OK
		Consumption 4.2 R3	0.933 mL	OK
		Content R5	18.560 mg/L	OK
		ALK LOW R6	18.460 mg/L	OK
2	Rinse,MKT	Sample size	50 mL	
		Potential R4	4.53 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.019 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
3	WG1930500-1	Sample size	50 mL	
		Potential R4	4.21 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.000 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
4	WG1930500-2	Sample size	50 mL	
		Potential R4	10.96 pH	OK
		Consumption 8.3 R1	4.853 mL	OK
		Consumption 4.5 R2	5.231 mL	OK
		Consumption 4.2 R3	5.236 mL	OK
		Content R5	104.620 mg/L	OK
		ALK LOW R6	104.520 mg/L	OK
5	L2430269-07	Sample size	50 mL	
		Potential R4	6.11 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
6	L2430269-08	Sample size	50 mL	

Titration report

		Potential R4	7.25 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
7	L2430269-09	Sample size	50 mL	
		Potential R4	6.23 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.924 mL	OK
		Consumption 4.2 R3	7.007 mL	OK
		Content R5	138.480 mg/L	OK
		ALK LOW R6	136.820 mg/L	OK
8	L2430285-01	Sample size	50 mL	
		Potential R4	5.23 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.325 mL	OK
		Consumption 4.2 R3	0.364 mL	OK
		Content R5	6.500 mg/L	OK
		ALK LOW R6	5.720 mg/L	OK
9	WG1930500-3	Sample size	50 mL	
		Potential R4	4.93 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.273 mL	OK
		Consumption 4.2 R3	0.317 mL	OK
		Content R5	5.460 mg/L	OK
		ALK LOW R6	4.580 mg/L	OK
10	WG1930500-4	Sample size	50 mL	
		Potential R4	11.13 pH	OK
		Consumption 8.3 R1	5.343 mL	OK
		Consumption 4.5 R2	5.847 mL	OK
		Consumption 4.2 R3	5.851 mL	OK
		Content R5	116.940 mg/L	OK
		ALK LOW R6	116.860 mg/L	OK
11	L2430219-01	Sample size	50 mL	
		Potential R4	8.45 pH	OK
		Consumption 8.3 R1	0.761 mL	OK
		Consumption 4.5 R2	2.137 mL	OK
		Consumption 4.2 R3	2.146 mL	OK
		Content R5	42.740 mg/L	OK
		ALK LOW R6	42.560 mg/L	OK
12	L2430219-02	Sample size	50 mL	
		Potential R4	6.09 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	10.343 mL	OK
		Consumption 4.2 R3	10.440 mL	OK
		Content R5	206.860 mg/L	OK

Titration report

		ALK LOW R6	204.920 mg/L	OK
13	L2430219-03	Sample size	50 mL	
		Potential R4	6.07 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	11.941 mL	OK
		Consumption 4.2 R3	12.066 mL	OK
		Content R5	238.820 mg/L	OK
		ALK LOW R6	236.320 mg/L	OK
14	L2430219-04	Sample size	50 mL	
		Potential R4	5.64 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.401 mL	OK
		Consumption 4.2 R3	2.415 mL	OK
		Content R5	48.020 mg/L	OK
		ALK LOW R6	47.740 mg/L	OK
15	L2430219-05	Sample size	50 mL	
		Potential R4	5.53 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.951 mL	OK
		Consumption 4.2 R3	0.962 mL	OK
		Content R5	19.020 mg/L	OK
		ALK LOW R6	18.800 mg/L	OK
16	L2430219-06	Sample size	50 mL	
		Potential R4	6.10 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	17.562 mL	OK
		Consumption 4.2 R3	17.756 mL	OK
		Content R5	351.240 mg/L	OK
		ALK LOW R6	347.360 mg/L	OK
17	L2430219-07	Sample size	50 mL	
		Potential R4	6.02 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	11.274 mL	OK
		Consumption 4.2 R3	11.406 mL	OK
		Content R5	225.480 mg/L	OK
		ALK LOW R6	222.840 mg/L	OK
18	L2430219-08	Sample size	50 mL	
		Potential R4	5.95 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.016 mL	OK
		Consumption 4.2 R3	4.050 mL	OK
		Content R5	80.320 mg/L	OK
		ALK LOW R6	79.640 mg/L	OK
19	L2430219-09	Sample size	50 mL	
		Potential R4	5.91 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.109 mL	OK

Titration report

		Consumption 4.2 R3	4.140 mL	OK
		Content R5	82.180 mg/L	OK
		ALK LOW R6	81.560 mg/L	OK
20	WG1930503-2	Sample size	50 mL	
		Potential R4	6.00 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.165 mL	OK
		Consumption 4.2 R3	4.198 mL	OK
		Content R5	83.300 mg/L	OK
		ALK LOW R6	82.640 mg/L	OK
21	L2430152-01	Sample size	50 mL	
		Potential R4	5.50 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.977 mL	OK
		Consumption 4.2 R3	3.098 mL	OK
		Content R5	59.540 mg/L	OK
		ALK LOW R6	57.120 mg/L	OK
22	L2430152-02	Sample size	50 mL	
		Potential R4	5.91 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.856 mL	OK
		Consumption 4.2 R3	5.929 mL	OK
		Content R5	117.120 mg/L	OK
		ALK LOW R6	115.660 mg/L	OK
23	L2430152-03	Sample size	50 mL	
		Potential R4	5.82 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.311 mL	OK
		Consumption 4.2 R3	3.340 mL	OK
		Content R5	66.220 mg/L	OK
		ALK LOW R6	65.640 mg/L	OK
24	L2430152-04	Sample size	50 mL	
		Potential R4	5.81 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.337 mL	OK
		Consumption 4.2 R3	3.363 mL	OK
		Content R5	66.740 mg/L	OK
		ALK LOW R6	66.220 mg/L	OK
25	L2430152-05	Sample size	50 mL	
		Potential R4	6.02 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	9.363 mL	OK
		Consumption 4.2 R3	9.468 mL	OK
		Content R5	187.260 mg/L	OK
		ALK LOW R6	185.160 mg/L	OK
26	L2430152-06	Sample size	50 mL	
		Potential R4	5.28 pH	OK

Titration report

		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.552 mL	OK
		Consumption 4.2 R3	0.565 mL	OK
		Content R5	11.040 mg/L	OK
		ALK LOW R6	10.780 mg/L	OK
27	WG1930505-3	Sample size	50 mL	
		Potential R4	5.24 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.559 mL	OK
		Consumption 4.2 R3	0.577 mL	OK
		Content R5	11.180 mg/L	OK
		ALK LOW R6	10.820 mg/L	OK
28	WG1930505-4	Sample size	50 mL	
		Potential R4	10.18 pH	OK
		Consumption 8.3 R1	3.941 mL	OK
		Consumption 4.5 R2	5.796 mL	OK
		Consumption 4.2 R3	5.800 mL	OK
		Content R5	115.920 mg/L	OK
		ALK LOW R6	115.840 mg/L	OK
29	L2430152-07	Sample size	50 mL	
		Potential R4	5.31 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.124 mL	OK
		Consumption 4.2 R3	1.155 mL	OK
		Content R5	22.480 mg/L	OK
		ALK LOW R6	21.860 mg/L	OK
30	L2430152-08	Sample size	50 mL	
		Potential R4	5.36 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.672 mL	OK
		Consumption 4.2 R3	0.684 mL	OK
		Content R5	13.440 mg/L	OK
		ALK LOW R6	13.200 mg/L	OK
31	L2430269-07 2x+10	Sample size	50 mL	
		Potential R4	5.86 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	9.820 mL	OK
		Consumption 4.2 R3	9.922 mL	OK
		Content R5	196.400 mg/L	OK
		ALK LOW R6	194.360 mg/L	OK
32	L2430269-08 2x+10	Sample size	50 mL	
		Potential R4	5.76 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.333 mL	OK
		Consumption 4.2 R3	9.099 mL	OK
		Content R5	86.660 mg/L	OK
		ALK LOW R6	-8.660 mg/L	OK

Titration report

33	L2429798-07	Sample size	50 mL	
		Potential R4	5.42 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.129 mL	OK
		Consumption 4.2 R3	0.139 mL	OK
		Content R5	2.580 mg/L	OK
		ALK LOW R6	2.380 mg/L	OK
34	ccv	Sample size	50 mL	
		Potential R4	11.17 pH	OK
		Consumption 8.3 R1	4.676 mL	OK
		Consumption 4.5 R2	5.012 mL	OK
		Consumption 4.2 R3	5.013 mL	OK
		Content R5	100.240 mg/L	OK
		ALK LOW R6	100.220 mg/L	OK
35	ccb	Sample size	50 mL	
		Potential R4	5.17 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.041 mL	OK
		Consumption 4.2 R3	0.047 mL	OK
		Content R5	0.820 mg/L	OK
		ALK LOW R6	0.700 mg/L	OK
36	--	Sample size	50 mL [12,15]	

Statistics

R1

Mean	NaN mL		
Maximum	5.343 mL	**Minimum**	0.761 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	35	**Samples excluded**	0

R2

Mean	NaN mL		
Maximum	17.562 mL	**Minimum**	0.041 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	35	**Samples excluded**	0

R3

Mean	NaN mL		
Maximum	17.756 mL	**Minimum**	0.000 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	35	**Samples excluded**	0

R4

Mean	6.37 pH

Titration report

Maximum	11.17 pH	**Minimum**	4.21 pH
Standard deviation	1.80 pH	**Rel. standard deviation**	28.172 %
Total samples	35	**Samples excluded**	0

R5

Mean	NaN mg/L		
Maximum	351.240 mg/L	**Minimum**	0.820 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	35	**Samples excluded**	0

R6

Mean	NaN mg/L		
Maximum	347.360 mg/L	**Minimum**	-8.660 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	35	**Samples excluded**	0

Used Instruments

Name	T7 Excellence Titrator	**Serial number**	C329519495

Responsible User

Time	Login name	Full name
6/6/2024 7:54:22 AM	SystemInternal	System internal account

(12) Unfinished sample
(15) Termination due to error
(17) Data compression on instrument occurred

Quality Control

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: DUP	**Matrix**	: WATER
Lab Sample ID	: L2430219-09	**Analysis Date**	: 06/06/24 09:05
Dup Sample ID	: WG1930503-2	**DUP Analysis Date**	: 06/06/24 09:08

Parameter	Sample Concentration (mg CaCO3/L)	Duplicate Concentration (mg CaCO3/L)	RPD	RPD Limit
Alkalinity, Carbonate	ND	ND	NC	10
Alkalinity, Bicarbonate	82.2	83.3	1	9

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix**	: WATER
Lab Sample ID	: L2430219-04	**Analysis Date**	: 06/07/24 13:21
Dup Sample ID	: WG1931253-2	**DUP Analysis Date**	: 06/07/24 13:23

Parameter	Sample Concentration (mg CaCO3/L)	Duplicate Concentration (mg CaCO3/L)	RPD	RPD Limit
Alkalinity, Carbonate	ND	ND	NC	10
Alkalinity, Bicarbonate	49.1	50.8	3	9

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 06/06/24 07:54
Dup Sample ID	: WG1931179-2	**DUP Analysis Date**	: 06/06/24 07:54

Parameter	Sample Concentration (mg CaCO3/L)	Duplicate Concentration (mg CaCO3/L)	RPD	RPD Limit
Alkalinity, Carbonate	ND	ND	NC	10

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 06/06/24 07:54
Dup Sample ID	: WG1931178-2	**DUP Analysis Date**	: 06/06/24 07:54

Parameter	Sample Concentration (mg CaCO3/L)	Duplicate Concentration (mg CaCO3/L)	RPD	RPD Limit
Alkalinity, Bicarbonate	82.2	83.3	1	9

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Alkalinity, Total	471-34-1	2		mg CaCO3/L	90-110	10	86-116	10	10	2320B	14 days	1 - Plastic 250ml unpreserved/No Headspace

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Alkalinity

$$\text{Alkalinity, mg } CaCO_3/L = \frac{A \times N \times 50{,}000}{\text{mL Sample}}$$

Where:

A = mL of the standard acid titrated

N = normality of the standard acid

Results are calculated using Mettler Toledo software.

Standard sample size is 50mL, 0.02N Sulfuric acid for titration

Sequence Logs

CAL	240604	LCS 7.0	7.02	INT:	MKT
pH 4	3295	Titrant:	4180		
pH 7	3386	LCS:	3257		
pH 10	3298	MS:	3255		
LCS	3409				

1	Rinse		42
2	Rinse		43
3	blank		44
4	lcs		45
5	L2430269-07		46
6	L2430269-08		47
7	L2430269-09		48
8	L2430285-01		49
9	dup		50
10	ms		51
11	L2430219-01		52
12	L2430219-02		53
13	L2430219-03		54
14	L2430219-04		55
15	L2430219-05		56
16	L2430219-06		57
17	L2430219-07		58
18	L2430219-08		59
19	L2430219-09		60
20	dup		61
21	L2430152-01		62
22	L2430152-02		63
23	L2430152-03		64
24	L2430152-04		65
25	L2430152-05		66
26	L2430152-06		67
27	dup		68
28	ms		69
29	L2430152-07		70
30	L2430152-08		71
31	L2430269-07	2x+10	72
32	L2430269-08	2x+10	73
33	L2429798-07		74
34	ccv		75
35	ccb		76
36			
37			
38			
39			
40			
41			

CAL	240604	LCS 7.0	7.02	INT:	MKT
pH 4	3295	Titrant:	4180		
pH 7	3386	LCS:	3257		
pH 10	3298	MS:	3255		
LCS	3409				

1	Rinse		42
2	Rinse		43
3	blank		44
4	lcs		45
5	L2430269-07		46
6	L2430269-08		47
7	L2430269-09		48
8	L2430285-01		49
9	dup		50
10	ms		51
11	L2430219-01		52
12	L2430219-02		53
13	L2430219-03		54
14	L2430219-04		55
15	L2430219-05		56
16	L2430219-06		57
17	L2430219-07		58
18	L2430219-08		59
19	L2430219-09		60
20	dup		61
21	L2430152-01		62
22	L2430152-02		63
23	L2430152-03		64
24	L2430152-04		65
25	L2430152-05		66
26	L2430152-06		67
27	dup		68
28	ms		69
29	L2430152-07		70
30	L2430152-08		71
31	L2430269-07	2x+10	72
32	L2430269-08	2x+10	73
33	L2429798-07		74
34	ccv		75
35	ccb		76
36			
37			
38			
39			
40			
41			

CAL	240604	LCS 7.0	7.02	INT:	MKT
pH 4	3295	Titrant:	4180		
pH 7	3386	LCS:	3257		
pH 10	3298	MS:	3255		
LCS	3409				

1	Rinse	42
2	Rinse	43
3	blank	44
4	lcs	45
5	L2430269-07	46
6	L2430269-08	47
7	L2430269-09	48
8	L2430285-01	49
9	dup	50
10	ms	51
11	L2430219-01	52
12	L2430219-02	53
13	L2430219-03	54
14	L2430219-04	55
15	L2430219-05	56
16	L2430219-06	57
17	L2430219-07	58
18	L2430219-08	59
19	L2430219-09	60
20	dup	61
21	L2430152-01	62
22	L2430152-02	63
23	L2430152-03	64
24	L2430152-04	65
25	L2430152-05	66
26	L2430152-06	67
27	dup	68
28	ms	69
29	L2430152-07	70
30	L2430152-08	71
31	L2430269-07 2x+10	72
32	L2430269-08 2x+10	73
33	L2429798-07	74
34	ccv	75
35	ccb	76
36		
37		
38		
39		
40		
41		

CAL	240607	LCS 7.0	7.03	INT:	MRM
pH 4	3295	Titrant:	4180		
pH 7	3386	LCS:	3257		
pH 10	3298	MS:	3255		
LCS	3409				

1 Rinse,MRM
2 Rinse,MRM
3 WG1931253-1
4 ICV
5 XL2429726-01
6 XL2429726-02
7 XL2429726-01 2.5x
8 L2430219-04
9 WG1931253-2
10 MS
11 CCV
12 CCB

Phosphates Analysis

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 11:12
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS060724-WG1930485	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.074	0.031	0.012	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 11:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS060724-WG1930485	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.018	0.031	0.012	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 11:18
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS060724-WG1930485	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.040	0.031	0.012	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 11:19
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS060724-WG1930485	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.046	0.031	0.012	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 11:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS060724-WG1930485	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	ND	0.031	0.012	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 11:21
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS060724-WG1930485	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.083	0.031	0.012	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 11:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS060724-WG1930485	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.015	0.031	0.012	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 11:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS060724-WG1930485	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.015	0.031	0.012	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/07/24 11:24
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS060724-WG1930485	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.015	0.031	0.012	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1930485-1	**Date Collected**	: NA
Client ID	: WG1930485-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/07/24 10:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS060724-WG1930485	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	ND	0.031	0.012	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1930485-3	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2SDUP	**Date Received**	: 05/31/24
Sample Location	:	**Date Analyzed**	: 06/07/24 11:14
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS060724-WG1930485	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/06/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.015	0.031	0.012	J

Sample Raw Data

Logo

AQ-2 Tray Report

Serial Number:	090856
Report Requested By:	EASAMOAH
Date & Time:	07-Jun-2024 11:33:56
Tray Number:	4
Tray Name:	WG1930608,485

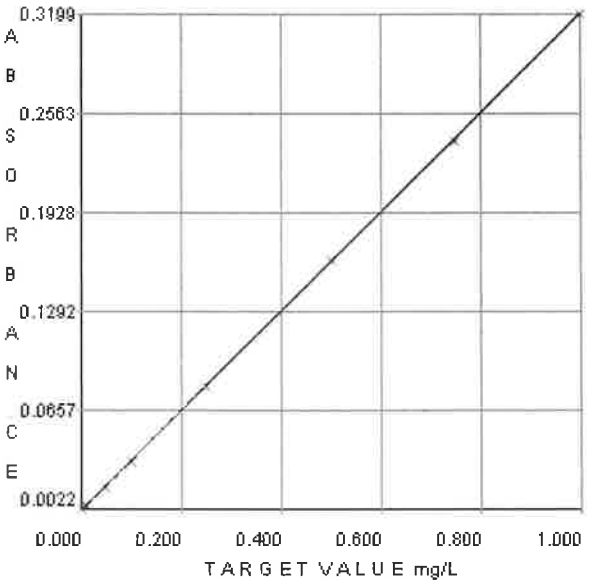
T-Phos 1

Calibration Chart

Type	Observed	Calculated	Target	% Error
S1	0.0022	0.003	0.000	
S90	0.0049	0.012	0.010	15.78
S91	0.0165	0.048	0.050	-4.11
S92	0.0320	0.097	0.100	-3.16
S93	0.0801	0.248	0.250	-0.77
S94	0.1622	0.506	0.500	1.17
S95	0.2383	0.745	0.750	-0.64
S96	0.3199	1.002	1.000	0.15
S0	0.0024	0.004	0.000	

Polynomial Order:	1
Correlation Coefficient:	1.0000
Carryover(%):	0.1
Calibration Equation:	y = bx + a
y =:	Concentration mg/L
x =:	Measured Absorbance
a =:	-3.829438E-003
b =:	3.142949E+000
Date & Time:	07-Jun-2024 10:52:19

Calibration Graph



Reagents

Name	Batch	Prepared By	Expiry Date
TP color	060524-tp color	Maeve Flaherty	26-Jun-2024 22:00:00
TP ascorbic	060524-aa	eric asamoah	12-Jun-2024 22:00:00

Test Results

Cup	Type	ID	Result	Units	Raw Data	Test Dil.	Cup Dil.	User	Time/Date
	S1	STANDARD 1	0.002		0.002155			EYA	07-Jun-2024 10:43:18
	S90	STANDARD 90	0.005		0.004902			EYA	07-Jun-2024 10:44:25
	S91	STANDARD 91	0.016		0.016473			EYA	07-Jun-2024 10:45:32
	S92	STANDARD 92	0.032		0.032032			EYA	07-Jun-2024 10:46:38
	S93	STANDARD 93	0.080		0.080149			EYA	07-Jun-2024 10:47:46
	S94	STANDARD 94	0.162		0.162169			EYA	07-Jun-2024 10:48:53
	S95	STANDARD 95	0.238		0.238326			EYA	07-Jun-2024 10:50:00
	S96	STANDARD 96	0.320		0.319882			EYA	07-Jun-2024 10:51:10
	S0	STANDARD 0	0.002		0.002357			EYA	07-Jun-2024 10:52:19
2	ICV	ICV	0.481	mg/L	0.154293			EYA	07-Jun-2024 10:53:26
3	ICB	ICB	0.002	mg/L	0.001792			EYA	07-Jun-2024 10:54:34
4	U1	WG1930608-1	0.003ELL	mg/L	0.002079			EYA	07-Jun-2024 10:55:42

5	U2	WG1930608-2	0.483	mg/L	0.154914	EYA	07-Jun-2024 10:56:50
6	U3	L2430152-01	0.035	mg/L	0.012309	EYA	07-Jun-2024 10:57:58
7	U4	L2430152-02	0.114	mg/L	0.037391	EYA	07-Jun-2024 10:59:06
8	U5	WG1930608-3	0.114	mg/L	0.037410	EYA	07-Jun-2024 11:00:13
9	U6	WG1930608-4	0.612	mg/L	0.195795	EYA	07-Jun-2024 11:01:21
10	U7	L2430152-03	0.329	mg/L	0.105951	EYA	07-Jun-2024 11:02:29
	CCV	C C V	0.469	mg/L	0.150516	EYA	07-Jun-2024 11:03:37
	CCB	C C B	0.002	mg/L	0.001993	EYA	07-Jun-2024 11:04:47
11	U8	L2430152-04	0.314	mg/L	0.101102	EYA	07-Jun-2024 11:05:57
12	U9	L2430152-05	0.560	mg/L	0.179337	EYA	07-Jun-2024 11:07:04
13	U10	L2430152-06	0.042	mg/L	0.014513	EYA	07-Jun-2024 11:08:12
14	U11	L2430152-07	0.004	mg/L	0.002484	EYA	07-Jun-2024 11:09:20
15	U12	L2430152-08	0.129	mg/L	0.042351	EYA	07-Jun-2024 11:10:27
16	U13	L2431205-01	0.007	mg/L	0.003325	EYA	07-Jun-2024 11:11:34
17	U14	L2430219-01	0.024	mg/L	0.008782	EYA	07-Jun-2024 11:12:42
18	U15	L2430219-02	0.006	mg/L	0.003062	EYA	07-Jun-2024 11:13:49
19	U16	WG1930485-3	0.005	mg/L	0.002844	EYA	07-Jun-2024 11:14:58
20	U17	WG1930485-4	0.497	mg/L	0.159483	EYA	07-Jun-2024 11:16:07
	CCV	C C V	0.468	mg/L	0.150036	EYA	07-Jun-2024 11:17:01
	CCB	C C B	0.004	mg/L	0.002368	EYA	07-Jun-2024 11:18:05
21	U18	L2430219-03	0.013	mg/L	0.005241	EYA	07-Jun-2024 11:18:59
22	U19	L2430219-04	0.015	mg/L	0.006013	EYA	07-Jun-2024 11:19:53
23	U20	L2430219-05	0.003	mg/L	0.002193	EYA	07-Jun-2024 11:20:46
24	U21	L2430219-06	0.027	mg/L	0.009909	EYA	07-Jun-2024 11:21:40
25	U22	L2430219-07	0.005	mg/L	0.002656	EYA	07-Jun-2024 11:22:33
26	U23	L2430219-08	0.005	mg/L	0.002815	EYA	07-Jun-2024 11:23:27
27	U24	L2430219-09	0.005	mg/L	0.002699	EYA	07-Jun-2024 11:24:20
	CCV	C C V	0.473	mg/L	0.151755	EYA	07-Jun-2024 11:25:14
	CCB	C C B	0.004	mg/L	0.002439	EYA	07-Jun-2024 11:26:09

Quality Control

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-2S	**Matrix**	: WATER
Lab Sample ID	: L2430219-02		
Matrix Spike	: WG1930485-4	**MS Analysis Date**	: 06/07/24 11:16
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Phosphate, Total	0.018J	1.53	1.52	99					80-120	15

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-2S	**Matrix**	: WATER
Lab Sample ID	: L2430219-02	**Analysis Date**	: 06/07/24 11:13
Dup Sample ID	: WG1930485-3	**DUP Analysis Date**	: 06/07/24 11:14

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Phosphate, Total	0.018J	0.015J	NC	15

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1930485-2	**LCS Analysis Date**	: 06/07/24 10:56
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Phosphate, Total	1.53	1.48	97.					84-118	15

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Total	7723-14-0	0.01	0.004	mg/l	80-120		75-125	20	20	4500P-E	28 days	1 - Plastic 500ml H2SO4 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Total	7723-14-0	5	1.67	mg/kg	52-148	20	75-125	20	20	4500P-E	28 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Orthophosphate	7723-14-0	0.005	0.001	mg/l	90-110		80-120	20	20	4500P-E	48 hours	1 - Plastic 500ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Orthophosphate	7723-14-0	0.05	0.05	mg/kg						4500P-E	48 hours	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of TPhosphorus

Aqueous samples:

Calculate the concentration value of the sample directly from the standard curve. All calculations are done by SEAL (segmant flow spectrometer).

$$\text{Mg TPhosphorus/L} = \frac{\text{absorbance - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

Wet Chemistry
By
IC Methods

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 21:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1929609-611-615	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	34.0	0.500	0.083	
16984-48-8	Fluoride	0.093	0.050	0.037	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-01	**Date Collected**	: 05/30/24 13:05
Client ID	: MW-1S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 21:41
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1929609-611-615	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.409	0.500	0.132	J
14808-79-8	Sulfate	240.	10.0	4.54	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-02	**Date Collected**	: 05/30/24 11:30
Client ID	: MW-2S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 21:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1929609-611-615	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U
16887-00-6	Chloride	7.76	0.500	0.083	
16984-48-8	Fluoride	0.107	0.050	0.037	
14808-79-8	Sulfate	43.3	1.00	0.454	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-03	**Date Collected**	: 05/30/24 10:07
Client ID	: MW-3S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 22:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1929609-611-615	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U
16887-00-6	Chloride	16.4	0.500	0.083	
16984-48-8	Fluoride	0.134	0.050	0.037	

Form 1
WETCHEM

Client	:	**Alpha Geoscience**	**Lab Number**	:	**L2430219**
Project Name	:	**HUNTINGTON READY MIXED**	**Project Number**	:	**20116**
Lab ID	:	**L2430219-03**	**Date Collected**	:	**05/30/24 10:07**
Client ID	:	**MW-3S**	**Date Received**	:	**05/31/24**
Sample Location	:	**SPEONK, NY**	**Date Analyzed**	:	**06/04/24 22:17**
Sample Matrix	:	**WATER**	**Dilution Factor**	:	**10**
Analytical Method	:	**44,300.0**	**Analyst**	:	**CVN,**
Lab File ID	:	**WG1929609-611-615**	**Instrument ID**	:	**IC3**
Sample Amount	:		**%Solids**	:	**N/A**
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	**Sulfate**	**163.**	**10.0**	**4.54**	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 23:42
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1929609-611-615	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.047	0.050	0.013	J
16984-48-8	Fluoride	0.077	0.050	0.037	
14808-79-8	Sulfate	7.90	1.00	0.454	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-04	**Date Collected**	: 05/30/24 13:45
Client ID	: MW-4D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 00:18
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1929609-611-615	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	138.	5.00	0.839	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-05	**Date Collected**	: 05/30/24 14:28
Client ID	: MW-5S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 00:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1929609-611-615	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.041	0.050	0.013	J
16887-00-6	Chloride	10.1	0.500	0.083	
16984-48-8	Fluoride	0.068	0.050	0.037	
14808-79-8	Sulfate	22.8	1.00	0.454	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-06	**Date Collected**	: 05/30/24 12:00
Client ID	: MW-6D	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/04/24 22:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1929609-611-615	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.159	0.050	0.013	
16887-00-6	Chloride	45.9	0.500	0.083	
16984-48-8	Fluoride	0.078	0.050	0.037	

Form 1
WETCHEM

Client	:	**Alpha Geoscience**	**Lab Number**	:	**L2430219**
Project Name	:	**HUNTINGTON READY MIXED**	**Project Number**	:	**20116**
Lab ID	:	**L2430219-06**	**Date Collected**	:	**05/30/24 12:00**
Client ID	:	**MW-6D**	**Date Received**	:	**05/31/24**
Sample Location	:	**SPEONK, NY**	**Date Analyzed**	:	**06/04/24 22:41**
Sample Matrix	:	**WATER**	**Dilution Factor**	:	**10**
Analytical Method	:	**44,300.0**	**Analyst**	:	**CVN,**
Lab File ID	:	**WG1929609-611-615**	**Instrument ID**	:	**IC3**
Sample Amount	:		**%Solids**	:	**N/A**
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	**Sulfate**	**141.**	**10.0**	**4.54**	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-07	**Date Collected**	: 05/30/24 11:00
Client ID	: MW-7S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 00:42
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1929609-611-615	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.114	0.050	0.013	
16887-00-6	Chloride	34.6	0.500	0.083	
16984-48-8	Fluoride	0.074	0.050	0.037	
14808-79-8	Sulfate	86.4	1.00	0.454	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-08	**Date Collected**	: 05/30/24 16:10
Client ID	: MW-8S	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 01:06
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1929609-611-615	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.115	0.050	0.013	
16887-00-6	Chloride	45.6	0.500	0.083	
16984-48-8	Fluoride	0.077	0.050	0.037	
14808-79-8	Sulfate	72.0	1.00	0.454	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: L2430219-09	**Date Collected**	: 05/30/24 00:00
Client ID	: DUP	**Date Received**	: 05/31/24
Sample Location	: SPEONK, NY	**Date Analyzed**	: 06/05/24 02:07
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1929609-611-615	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.117	0.050	0.013	
16887-00-6	Chloride	45.4	0.500	0.083	
16984-48-8	Fluoride	0.077	0.050	0.037	
14808-79-8	Sulfate	71.8	1.00	0.454	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Lab ID	: WG1929611-1	**Date Collected**	: NA
Client ID	: WG1929611-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/04/24 16:38
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1929609-611-615	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

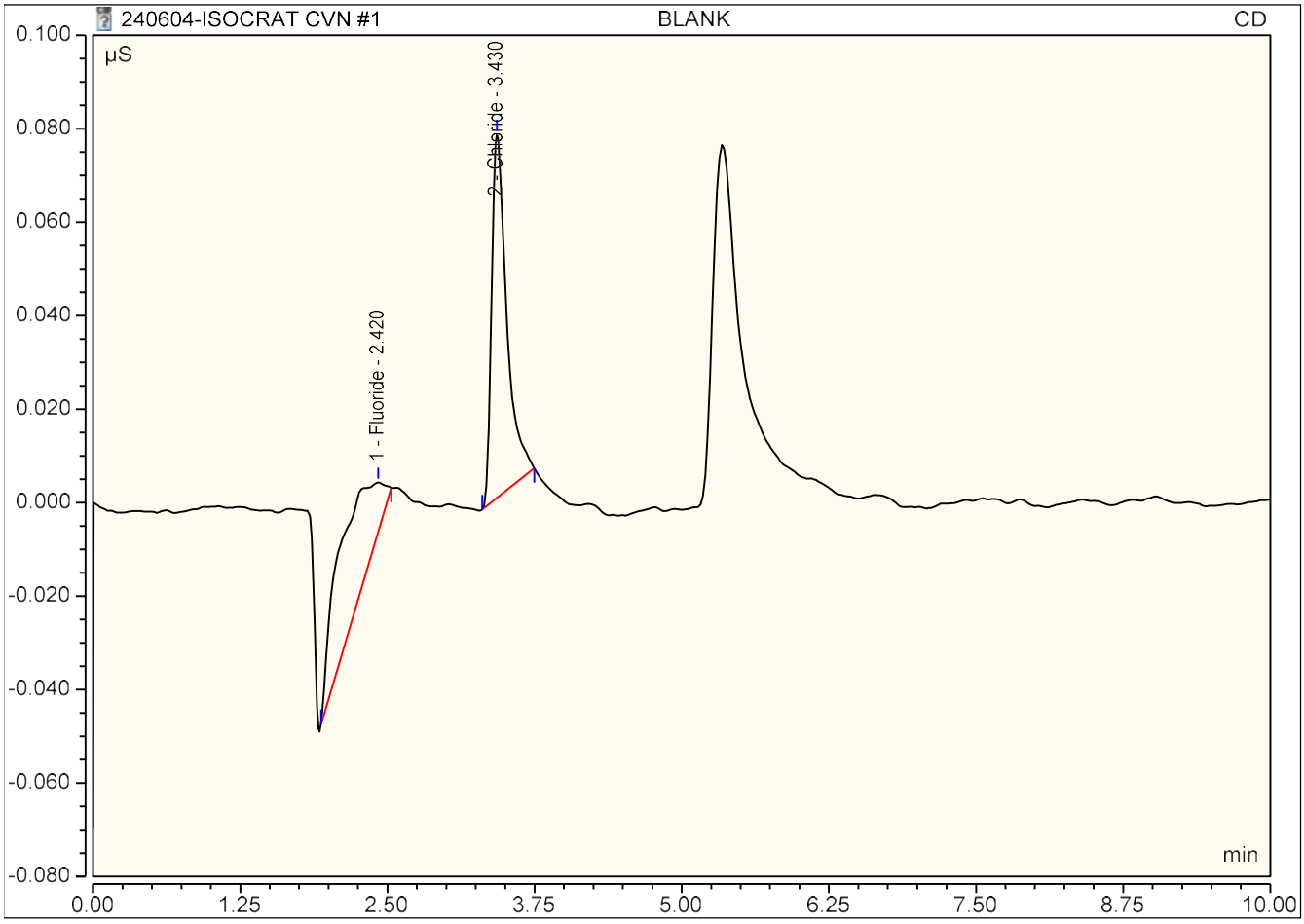
		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U
16887-00-6	Chloride	0.255	0.500	0.083	J
16984-48-8	Fluoride	ND	0.050	0.037	U
14808-79-8	Sulfate	0.467	1.00	0.454	J

Sample Raw Data

Peak Integration Report

Sample Name:	**BLANK**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**08-May-2024 / 13:13**	*Run Time:*	**10.00**

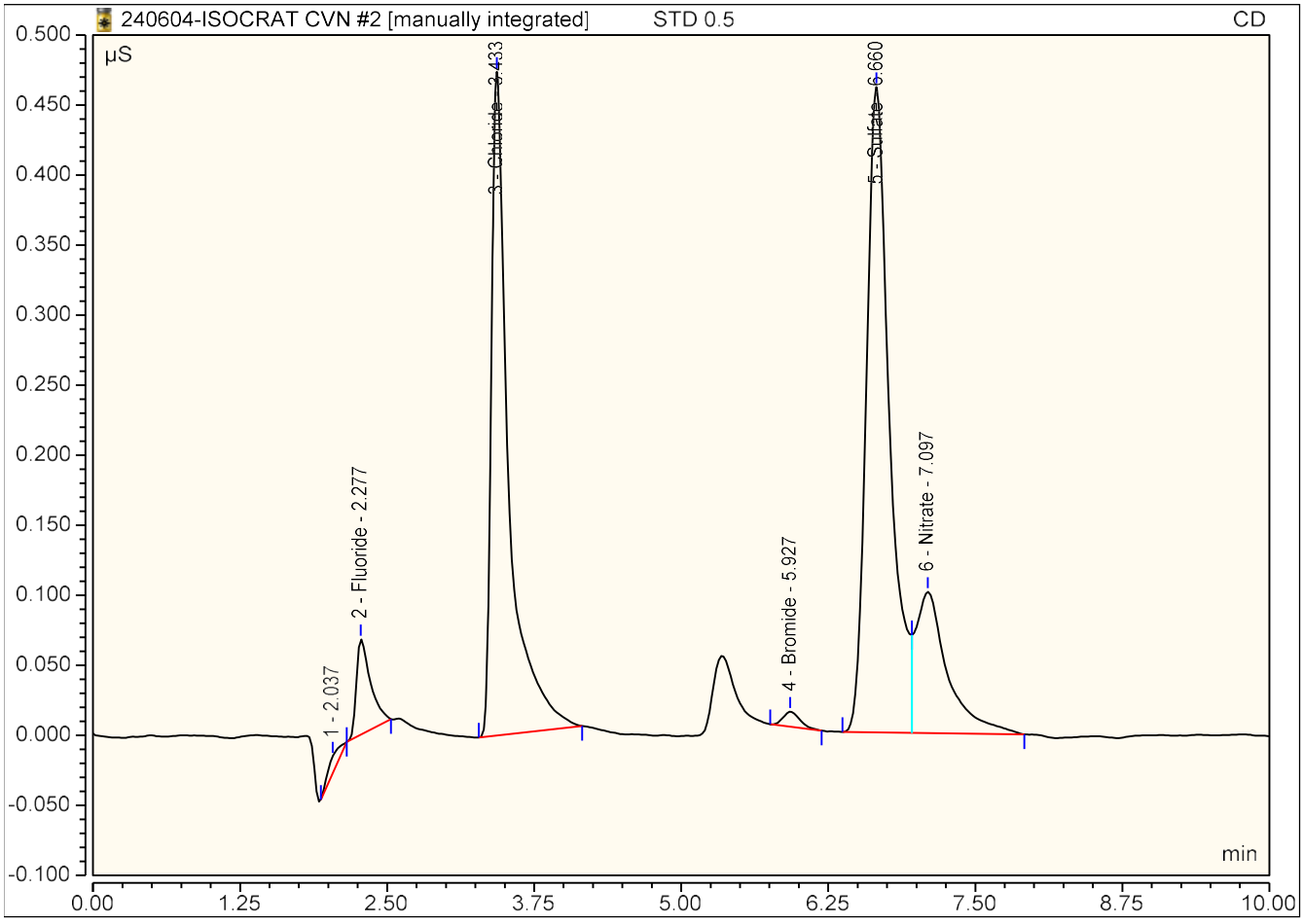
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.42	**Fluoride**	BMB	0.010	0.011	0.0784
2	3.43	**Chloride**	BMB	0.012	0.078	0.2701
TOTAL:				0.02	0.09	0.35



Peak Integration Report

Sample Name:	**STD 0.5**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**08-May-2024 / 13:25**	*Run Time:*	**10.00**

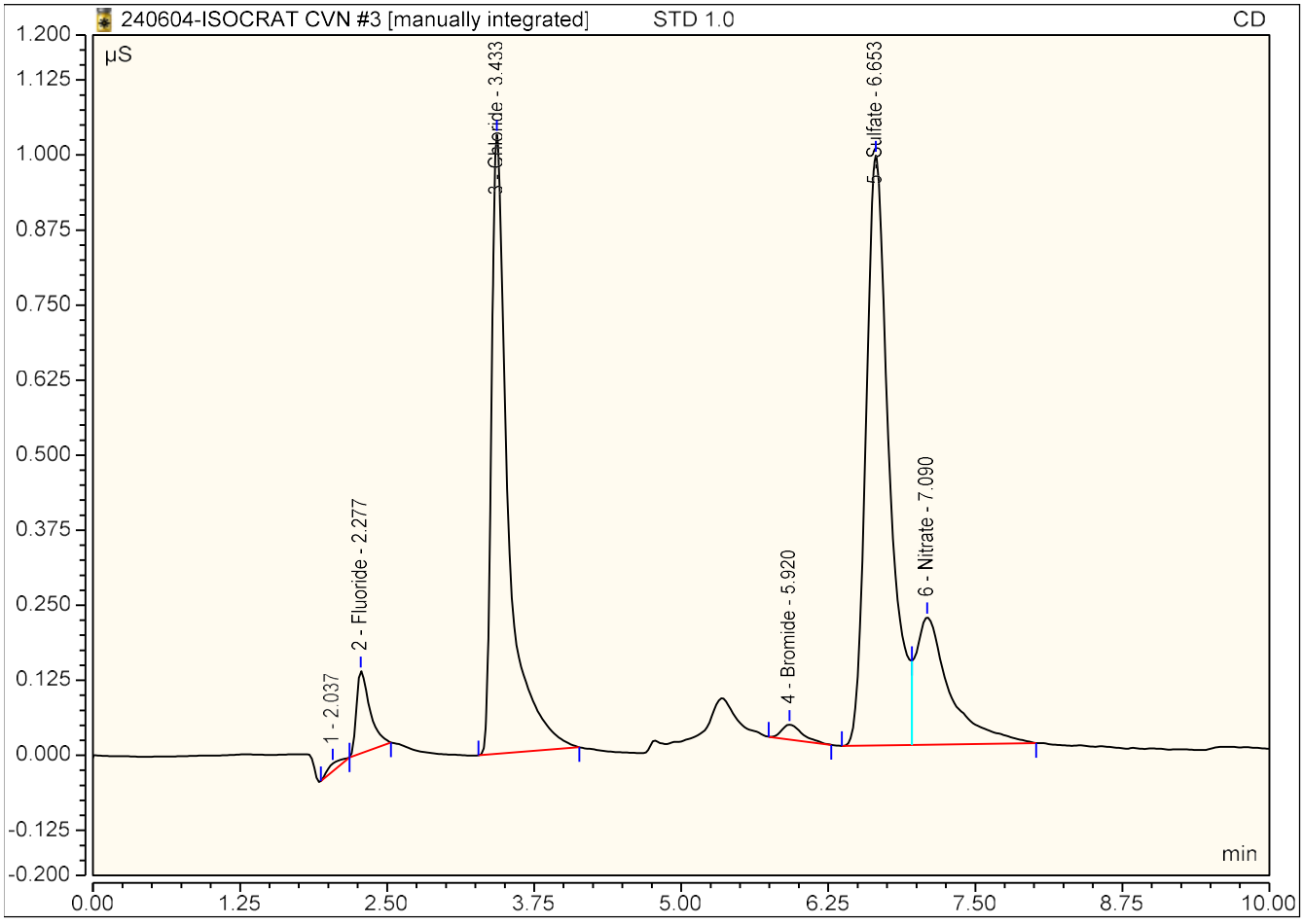
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.28	**Fluoride**	BMB	0.010	0.068	0.0783
3	3.43	**Chloride**	BMB*	0.081	0.474	0.4332
4	5.93	**Bromide**	BMB	0.002	0.011	0.0494
5	6.66	**Sulfate**	BM *	0.105	0.461	0.8160
6	7.10	**Nitrate**	MB*	0.032	0.101	0.0191
TOTAL:				0.23	1.11	1.40



Peak Integration Report

Sample Name:	**STD 1.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**08-May-2024 / 13:37**	*Run Time:*	**10.00**

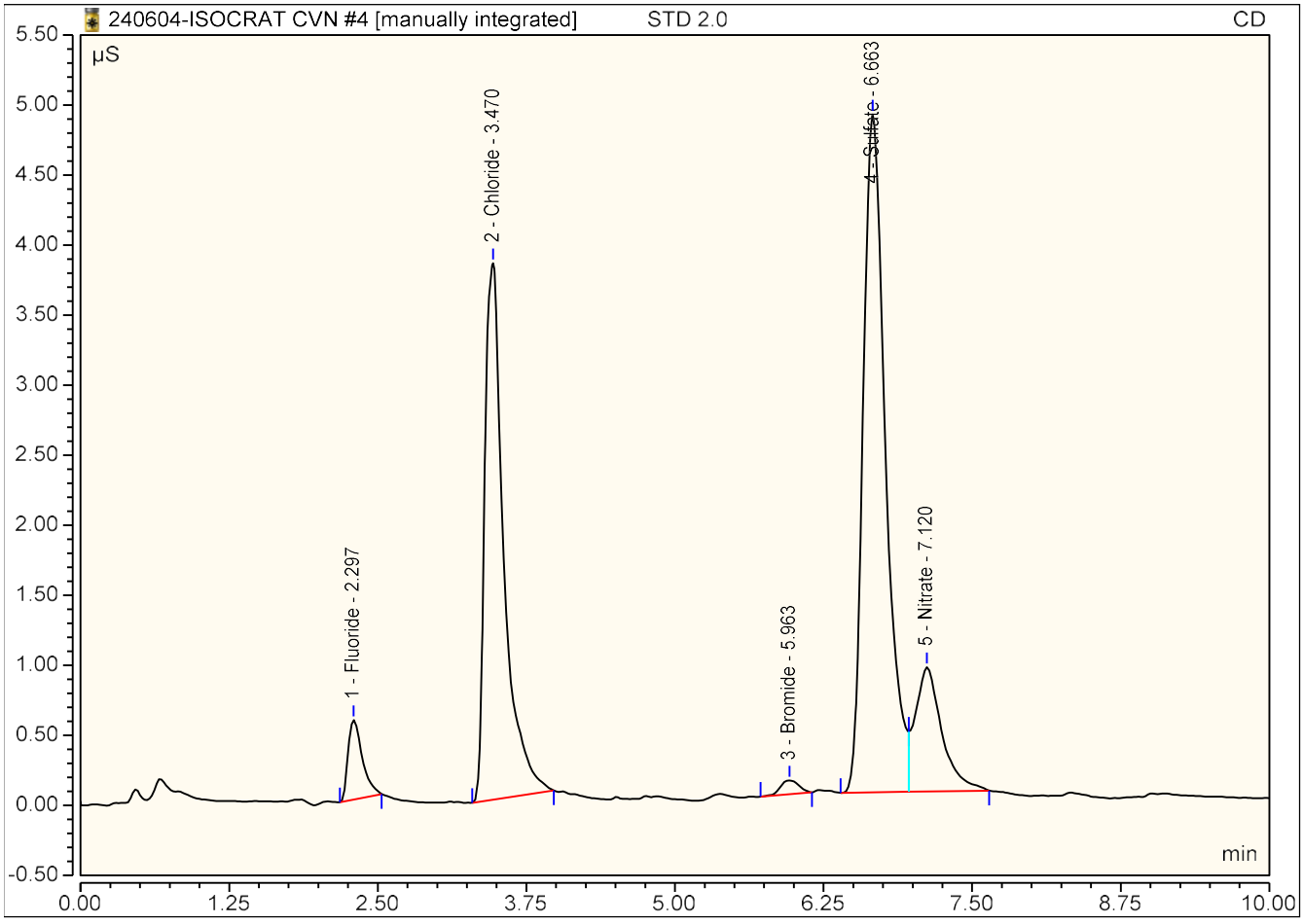
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.28	**Fluoride**	BMB	0.018	0.137	0.0916
3	3.43	**Chloride**	BMB*	0.171	1.032	0.6443
4	5.92	**Bromide**	BMB	0.005	0.025	0.0746
5	6.65	**Sulfate**	BM *	0.225	0.983	1.2137
6	7.09	**Nitrate**	MB*	0.071	0.212	0.0517
TOTAL:				0.49	2.39	2.08



Peak Integration Report

Sample Name:	**STD 2.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**08-May-2024 / 13:49**	*Run Time:*	**10.00**

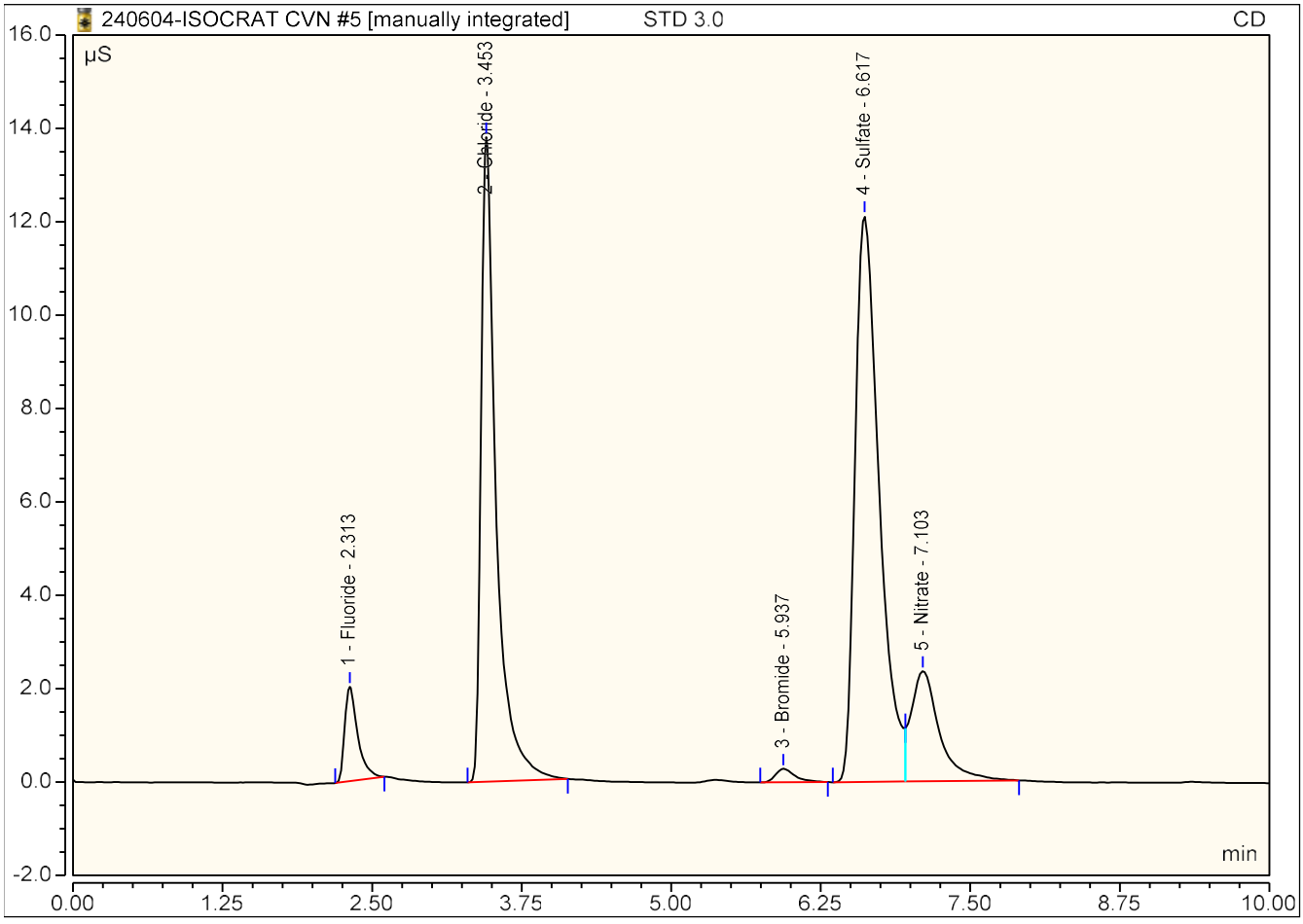
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.30	**Fluoride**	BMB	0.079	0.567	0.1842
2	3.47	**Chloride**	BMB*	0.716	3.830	1.9244
3	5.96	**Bromide**	BMB	0.018	0.099	0.1750
4	6.66	**Sulfate**	BM *	1.057	4.841	3.9833
5	7.12	**Nitrate**	MB*	0.231	0.889	0.1830
TOTAL:				2.10	10.23	6.45



Peak Integration Report

Sample Name:	**STD 3.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**08-May-2024 / 14:01**	*Run Time:*	**10.00**

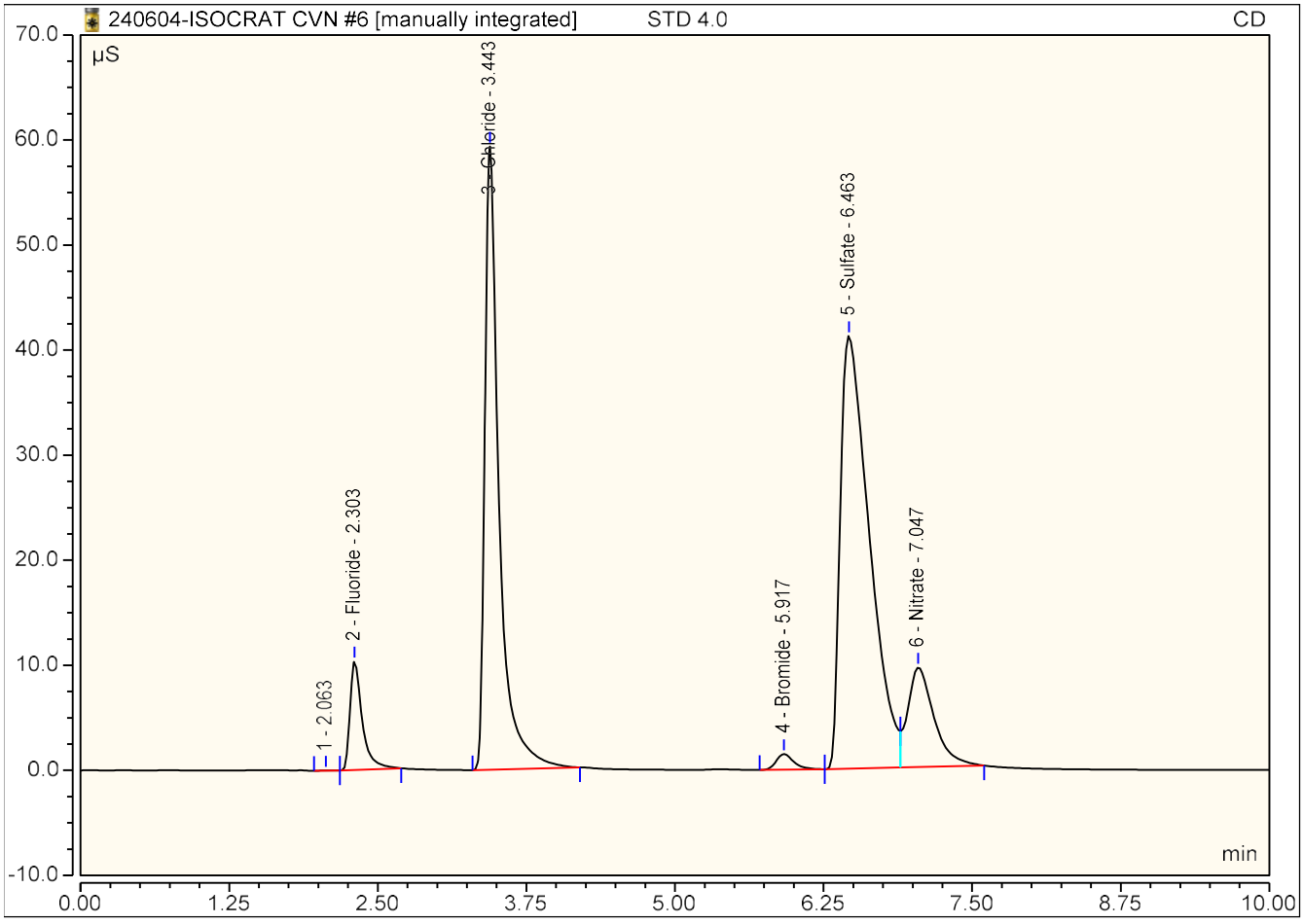
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.31	**Fluoride**	BMB*	0.255	2.023	0.4522
2	3.45	**Chloride**	BMB*	2.014	13.808	4.9708
3	5.94	**Bromide**	BMB	0.055	0.291	0.4660
4	6.62	**Sulfate**	BM *	2.841	12.123	9.9161
5	7.10	**Nitrate**	MB*	0.648	2.363	0.5260
TOTAL:				5.81	30.61	16.33



Peak Integration Report

Sample Name:	**STD 4.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**08-May-2024 / 14:13**	*Run Time:*	**10.00**

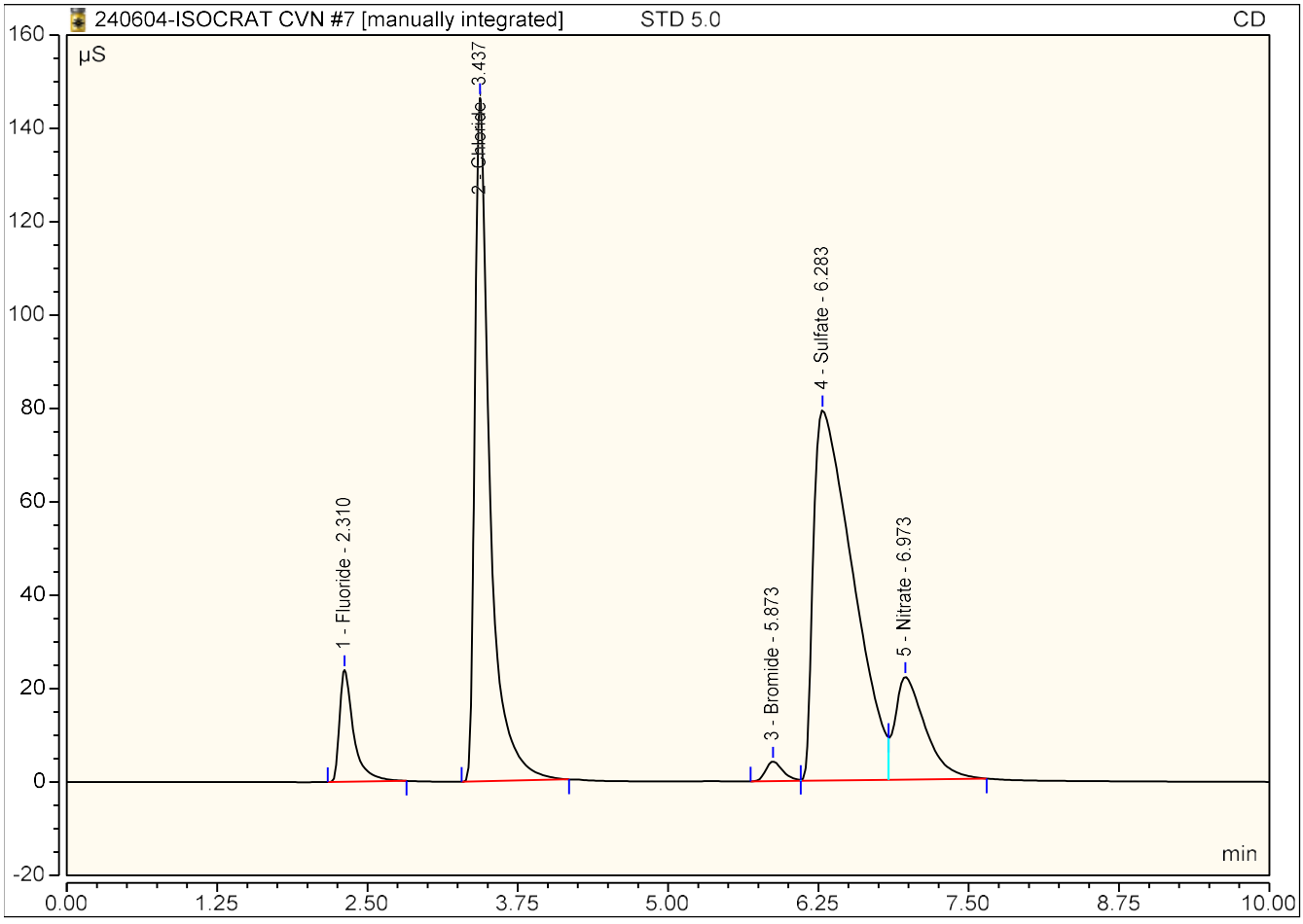
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	bMB*	1.231	10.335	1.9400
3	3.44	**Chloride**	BMB*	8.256	59.325	19.6228
4	5.92	**Bromide**	BMb*	0.254	1.489	2.0101
5	6.46	**Sulfate**	bM *	11.670	41.177	39.2760
6	7.05	**Nitrate**	MB*	2.435	9.483	1.9952
TOTAL:				23.85	121.81	64.84



Peak Integration Report

Sample Name:	**STD 5.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**08-May-2024 / 14:25**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.31	**Fluoride**	BMB*	3.257	23.953	5.0287
2	3.44	**Chloride**	BMB*	21.264	146.410	50.1545
3	5.87	**Bromide**	BM *	0.707	4.226	5.5415
4	6.28	**Sulfate**	M *	30.018	79.331	100.2949
5	6.97	**Nitrate**	MB*	6.443	22.014	5.2920
TOTAL:				61.69	275.93	166.31



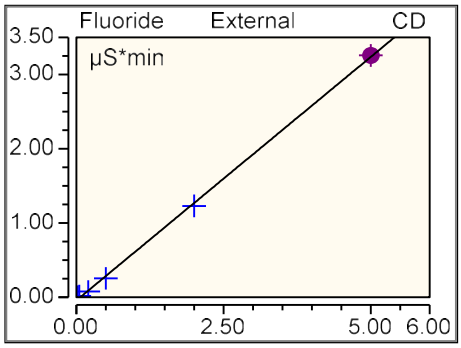
Calibration Batch Report

Sequence:	**240604-ISOCRAT CVN**	*Injection Volume:*	**25.00**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**08-May-2024 / 14:25**	*Run Time:*	**10**

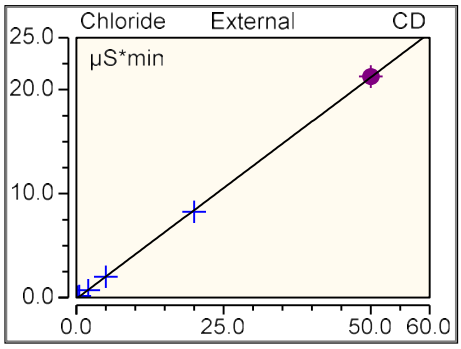
Calibration Summary

Peak Name	Eval.Type	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff.Det. %
Fluoride	Area	in, WithOffse	6.000	-0.042	0.656	0.000	99.9400
Chloride	Area	in, WithOffse	6.000	-0.104	0.426	0.000	99.9882
Bromide	Area	in, WithOffse	5.000	-0.005	0.128	0.000	99.8881
Sulfate	Area	in, WithOffse	6.000	-0.140	0.301	0.000	99.9901
Nitrate	Area	in, WithOffse	5.000	0.009	1.216	0.000	99.9628
		AVERAGE:		-0.0563	0.5454	0.0000	99.9538

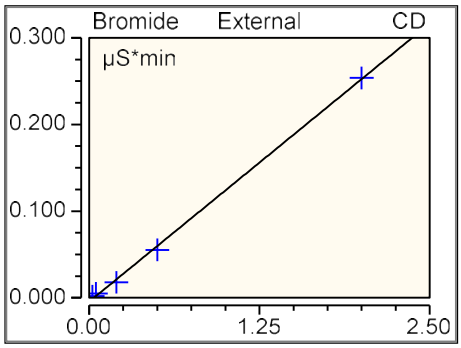
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Fluoride	Fluoride	Fluoride	Fluoride
STD 0.5	2.277	0.0095	0.068	0.078
STD 1.0	2.277	0.0183	0.137	0.092
STD 2.0	2.297	0.0790	0.567	0.184
STD 3.0	2.313	0.2548	2.023	0.452
STD 4.0	2.303	1.2309	10.335	1.940
STD 5.0	2.310	3.2571	23.953	5.029
Average	2.296			
Rel. Std. Dev.	0.702 %			



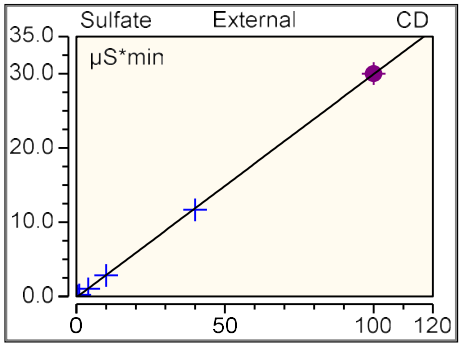
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Chloride	Chloride	Chloride	Chloride
STD 0.5	3.433	0.0811	0.474	0.433
STD 1.0	3.433	0.1710	1.032	0.644
STD 2.0	3.470	0.7163	3.830	1.924
STD 3.0	3.453	2.0142	13.808	4.971
STD 4.0	3.443	8.2563	59.325	19.623
STD 5.0	3.437	21.2635	146.410	50.154
Average	3.445			
Rel. Std. Dev.	0.418 %			



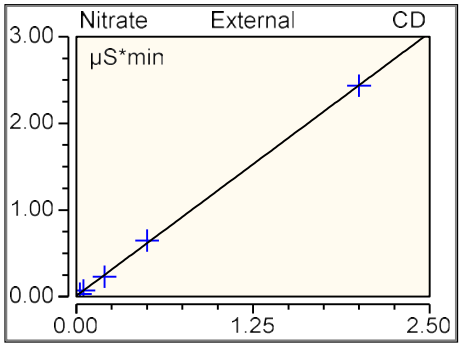
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Bromide	Bromide	Bromide	Bromide
STD 0.5	5.927	0.0018	0.011	0.049
STD 1.0	5.920	0.0050	0.025	0.075
STD 2.0	5.963	0.0179	0.099	0.175
STD 3.0	5.937	0.0553	0.291	0.466
STD 4.0	5.917	0.2537	1.489	2.010
STD 5.0	5.873	0.7074	4.226	5.541
Average	5.923			
Rel. Std. Dev.	0.498 %			



Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Sulfate	Sulfate	Sulfate	Sulfate
STD 0.5	6.660	0.1051	0.461	0.816
STD 1.0	6.653	0.2247	0.983	1.214
STD 2.0	6.663	1.0575	4.841	3.983
STD 3.0	6.617	2.8414	12.123	9.916
STD 4.0	6.463	11.6698	41.177	39.276
STD 5.0	6.283	30.0179	79.331	100.295
Average	6.557			
Rel. Std. Dev.	2.347 %			



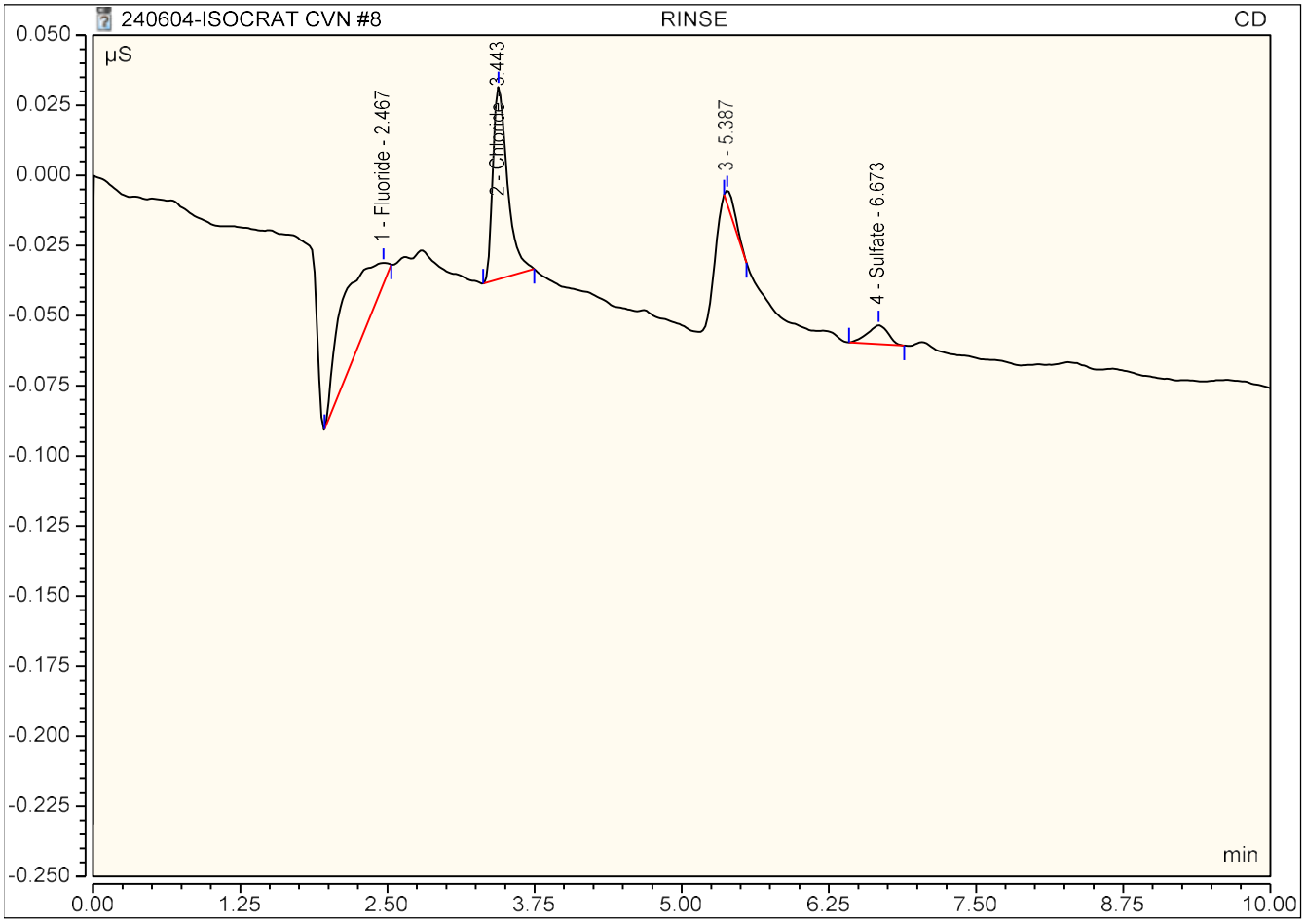
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Nitrate	Nitrate	Nitrate	Nitrate
STD 0.5	7.097	0.0317	0.101	0.019
STD 1.0	7.090	0.0714	0.212	0.052
STD 2.0	7.120	0.2311	0.889	0.183
STD 3.0	7.103	0.6481	2.363	0.526
STD 4.0	7.047	2.4345	9.483	1.995
STD 5.0	6.973	6.4430	22.014	5.292
Average	7.072			
Rel. Std. Dev.	0.764 %			



Peak Integration Report

Sample Name:	**RINSE**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 15:13**	*Run Time:*	**10.00**

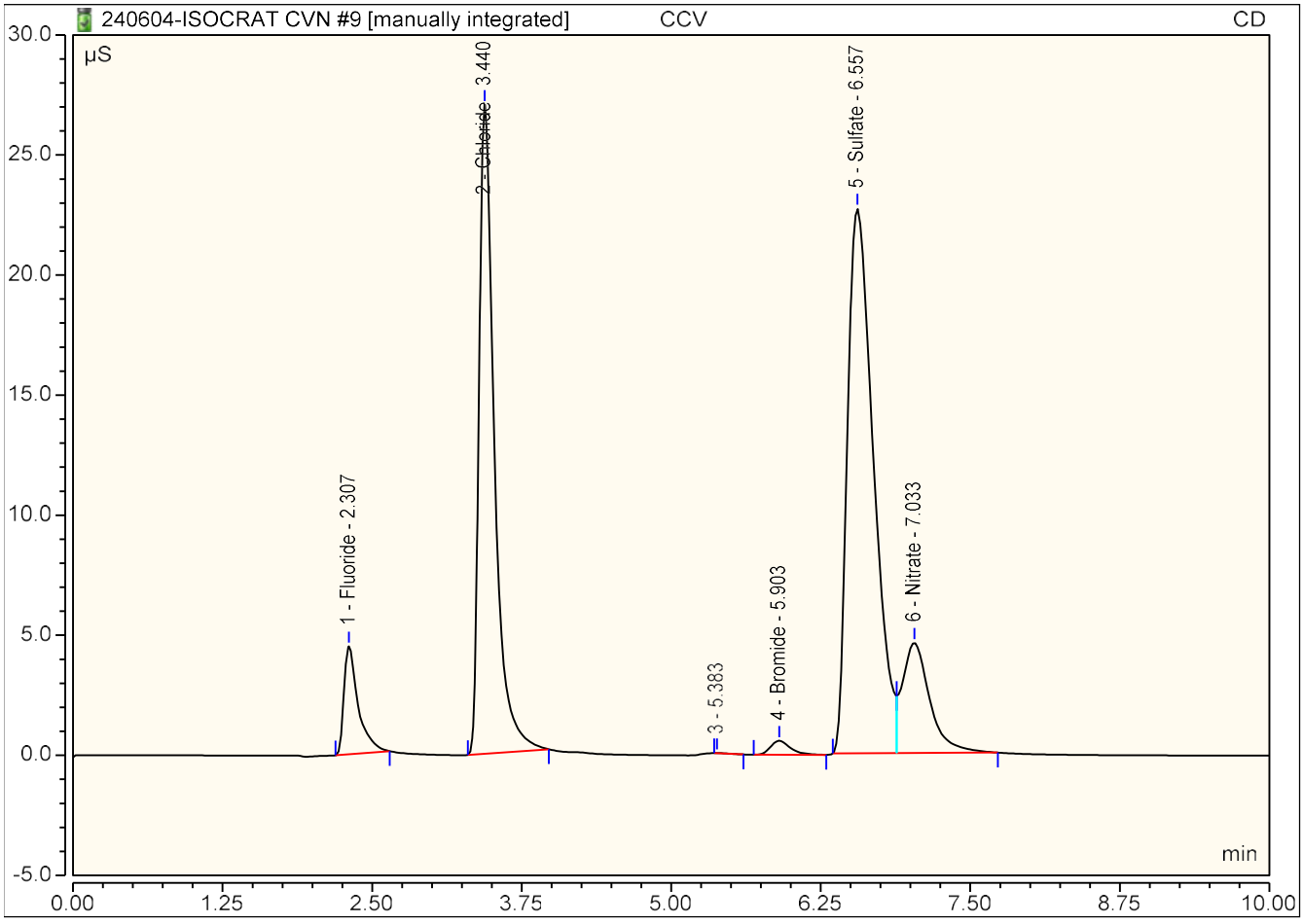
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.47	**Fluoride**	BMB	0.010	0.007	0.0795
2	3.44	**Chloride**	BMB	0.010	0.069	0.2662
4	6.67	**Sulfate**	BMB	0.001	0.007	0.4710
TOTAL:				0.02	0.08	0.82



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 15:25**	*Run Time:*	**10.00**

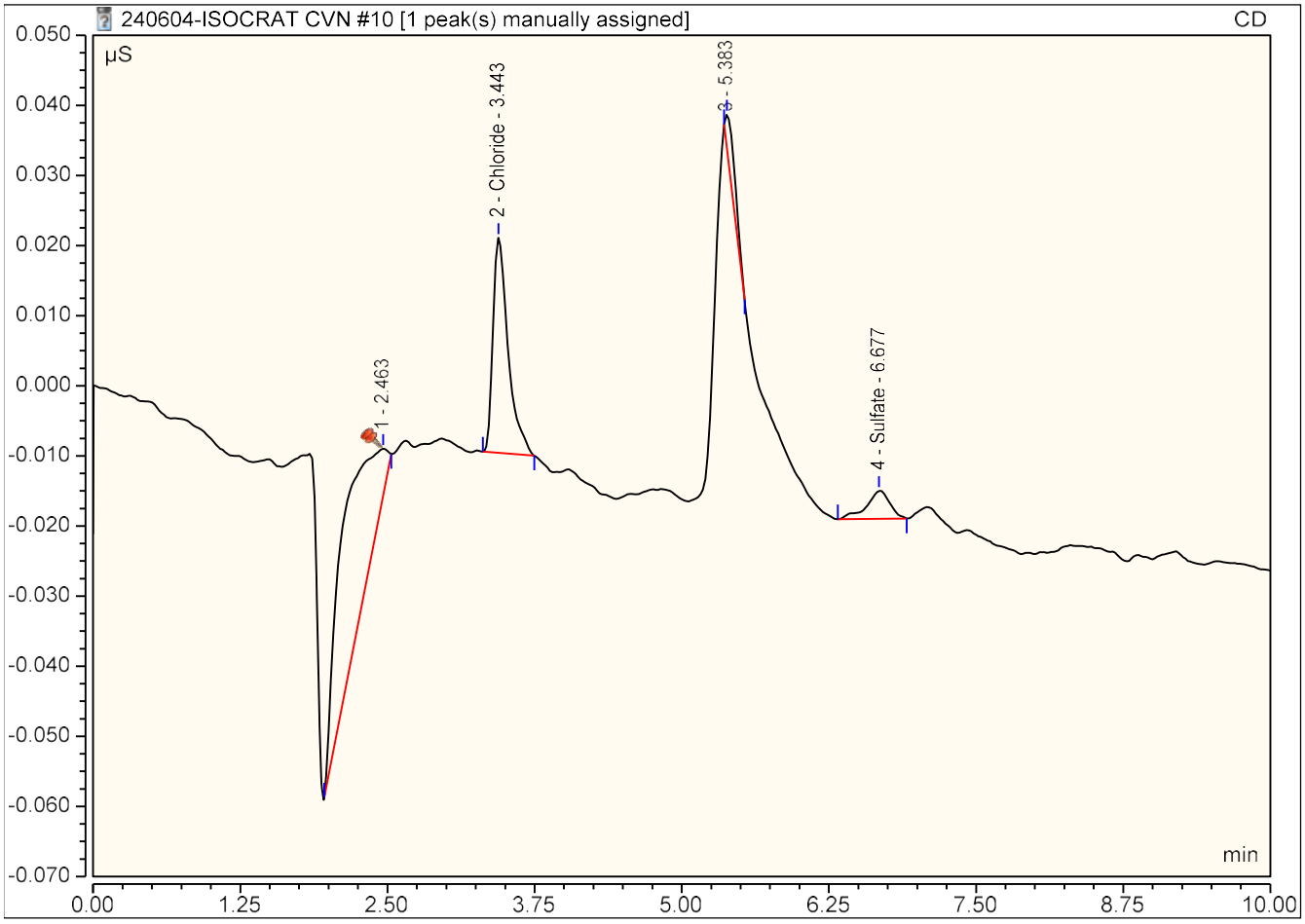
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.31	**Fluoride**	BMB*	0.619	4.496	1.0080
2	3.44	**Chloride**	BMB*	4.003	27.025	9.6397
4	5.90	**Bromide**	BMB	0.113	0.587	0.9135
5	6.56	**Sulfate**	BM *	5.722	22.687	19.4967
6	7.03	**Nitrate**	MB*	1.224	4.592	0.9993
TOTAL:				11.68	59.39	32.06



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 15:37**	*Run Time:*	**10.00**

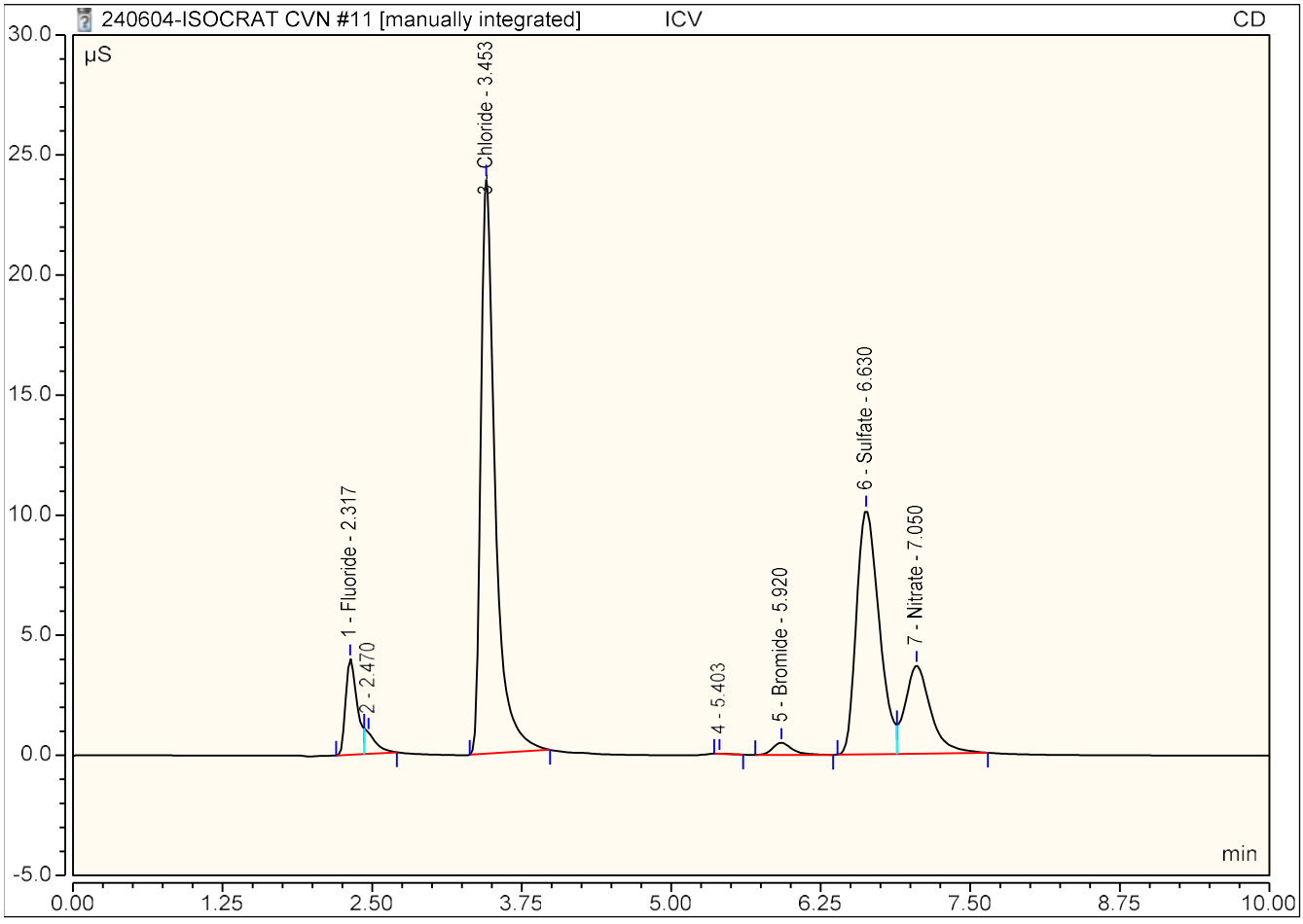
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.44	**Chloride**	BMB	0.005	0.031	0.2537
4	6.68	**Sulfate**	BMB	0.001	0.004	0.4695
TOTAL:				0.01	0.03	0.72



Peak Integration Report

Sample Name:	**ICV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 16:13**	*Run Time:*	**10.00**

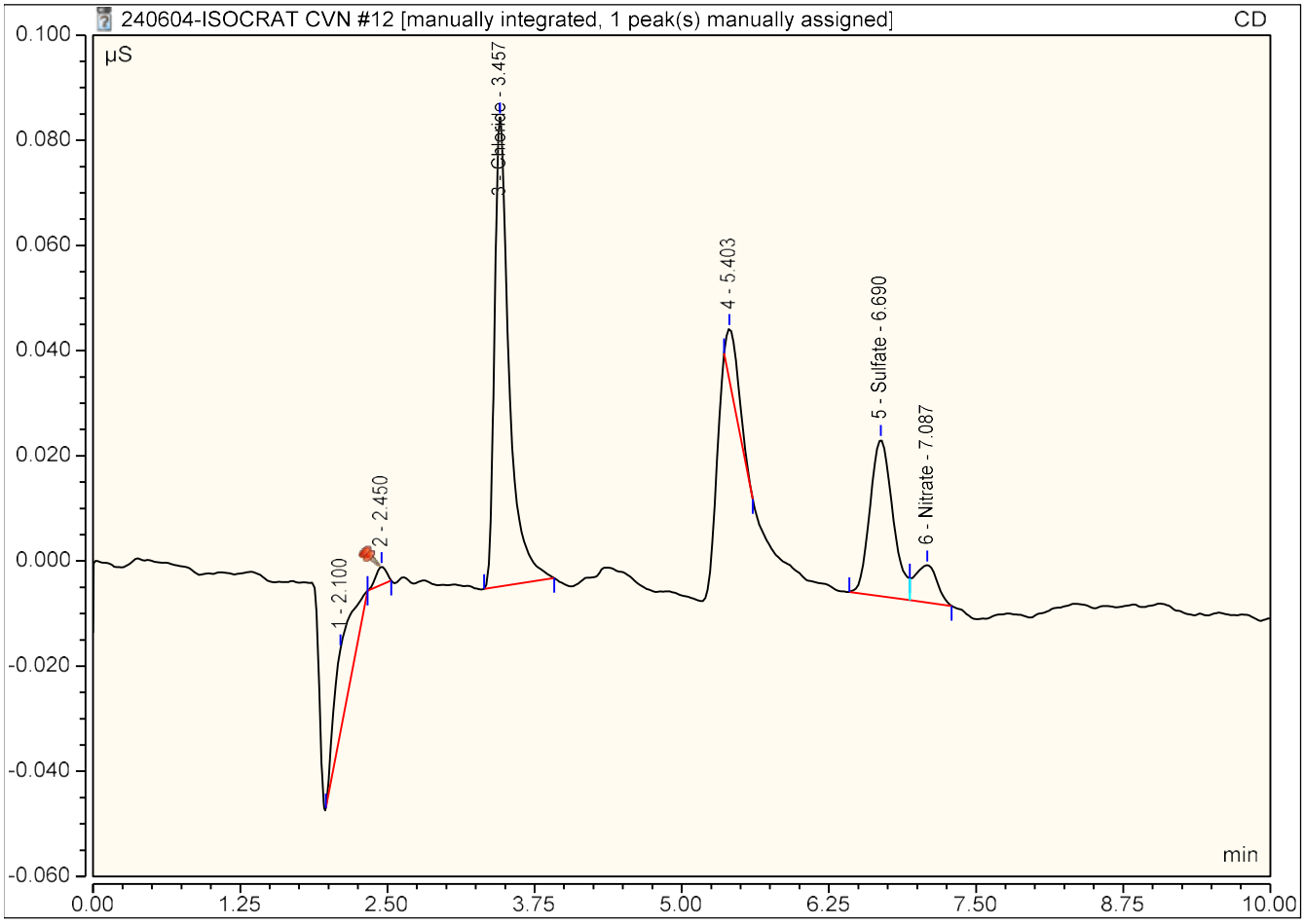
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.32	**Fluoride**	BM *	0.440	3.992	0.7343
3	3.45	**Chloride**	BMB*	3.330	23.908	8.0590
5	5.92	**Bromide**	BMB	0.096	0.508	0.7835
6	6.63	**Sulfate**	BM *	2.237	10.164	7.9054
7	7.05	**Nitrate**	MB*	0.910	3.667	0.7416
TOTAL:				7.01	42.24	18.22



Peak Integration Report

Sample Name:	**ICB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 16:26**	*Run Time:*	**10.00**

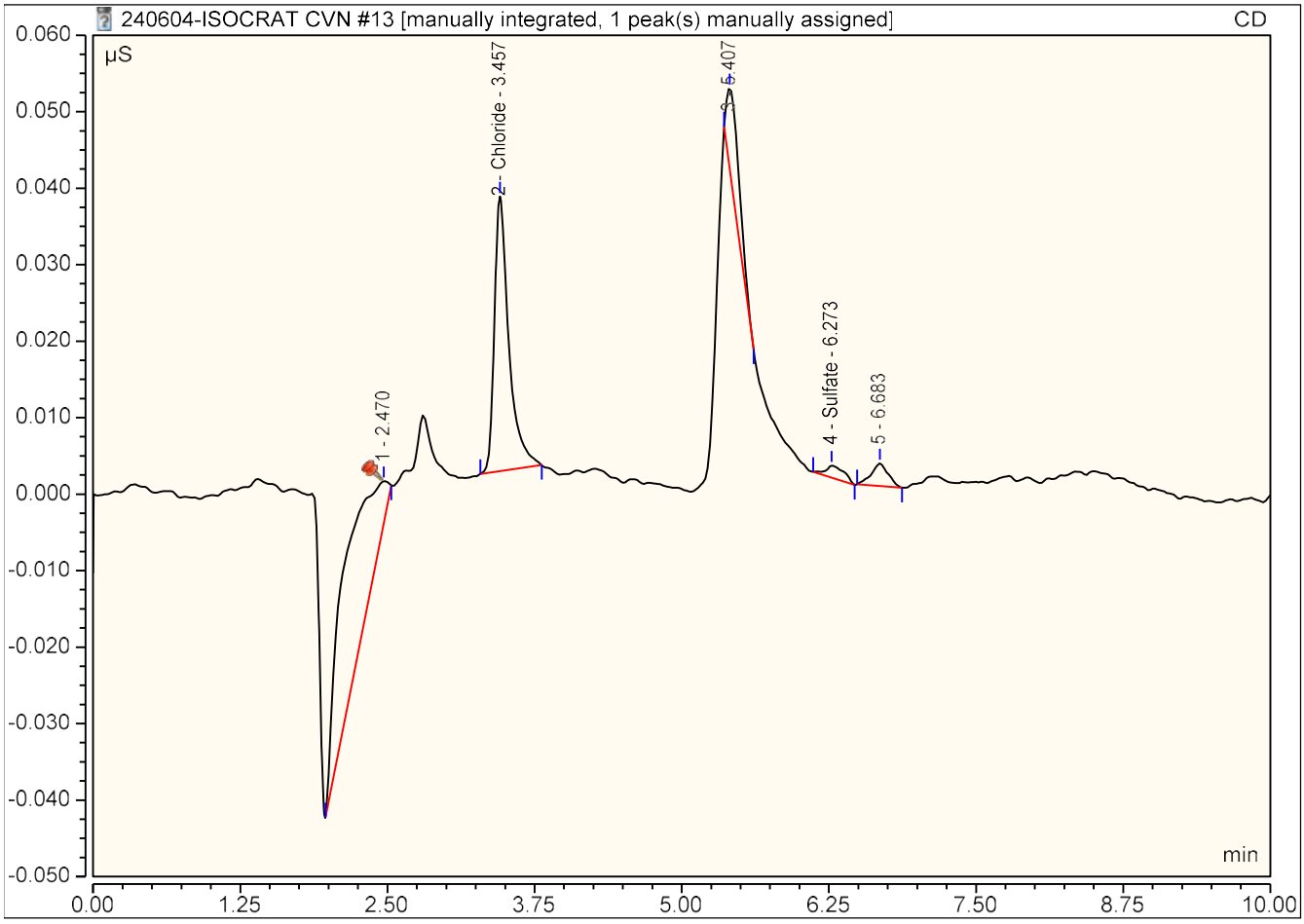
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.46	**Chloride**	BMB*	0.013	0.089	0.2732
5	6.69	**Sulfate**	BM *	0.007	0.030	0.4888
6	7.09	**Nitrate**	MB*	0.002	0.007	n.a.
TOTAL:				0.02	0.13	0.76



Peak Integration Report

Sample Name:	**BLK**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 16:38**	*Run Time:*	**10.00**

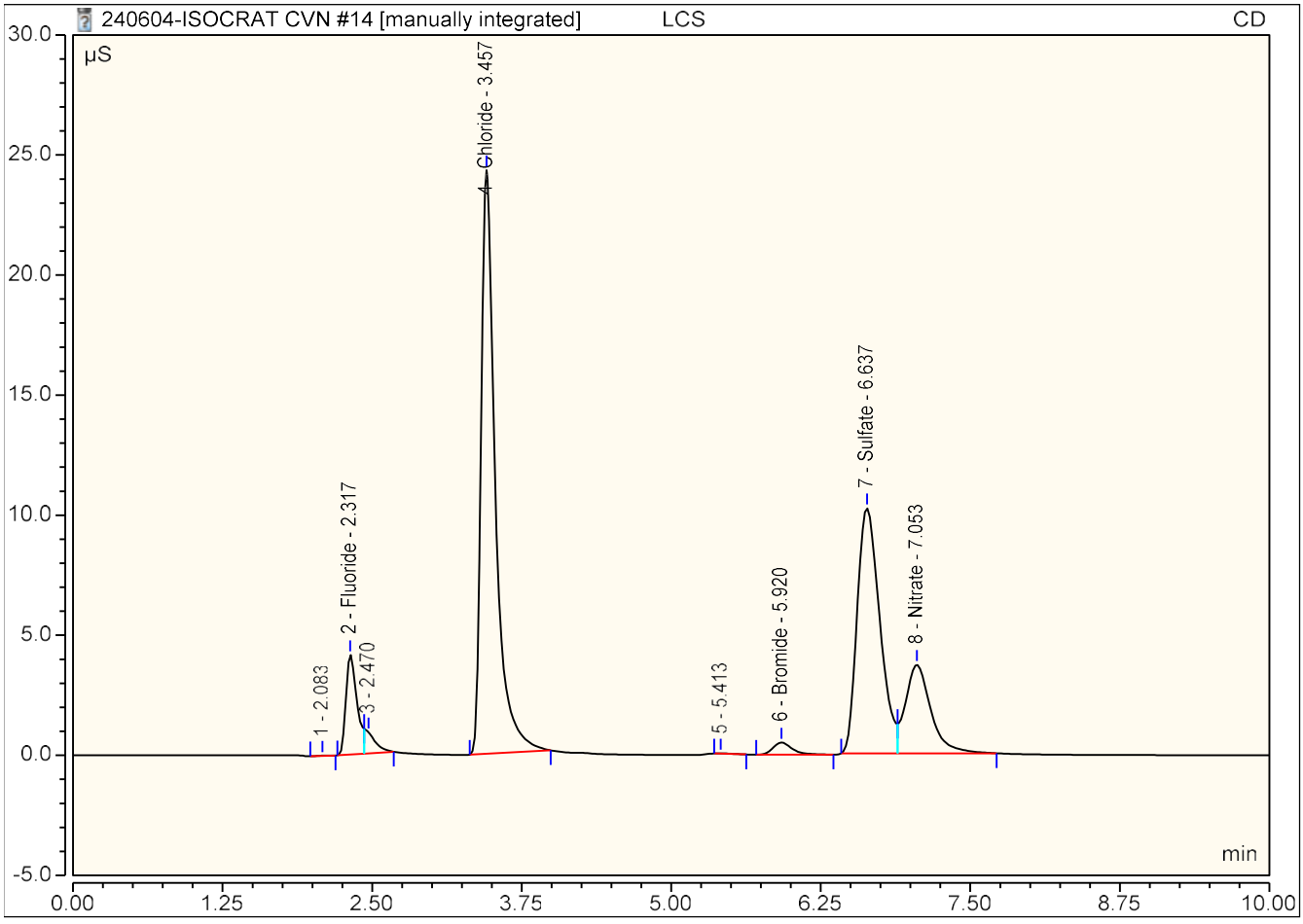
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.46	**Chloride**	BMB*	0.005	0.036	0.2549
4	6.27	**Sulfate**	BMB	0.000	0.002	0.4674
TOTAL:				0.01	0.04	0.72



Peak Integration Report

Sample Name:	**LCS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 16:50**	*Run Time:*	**10.00**

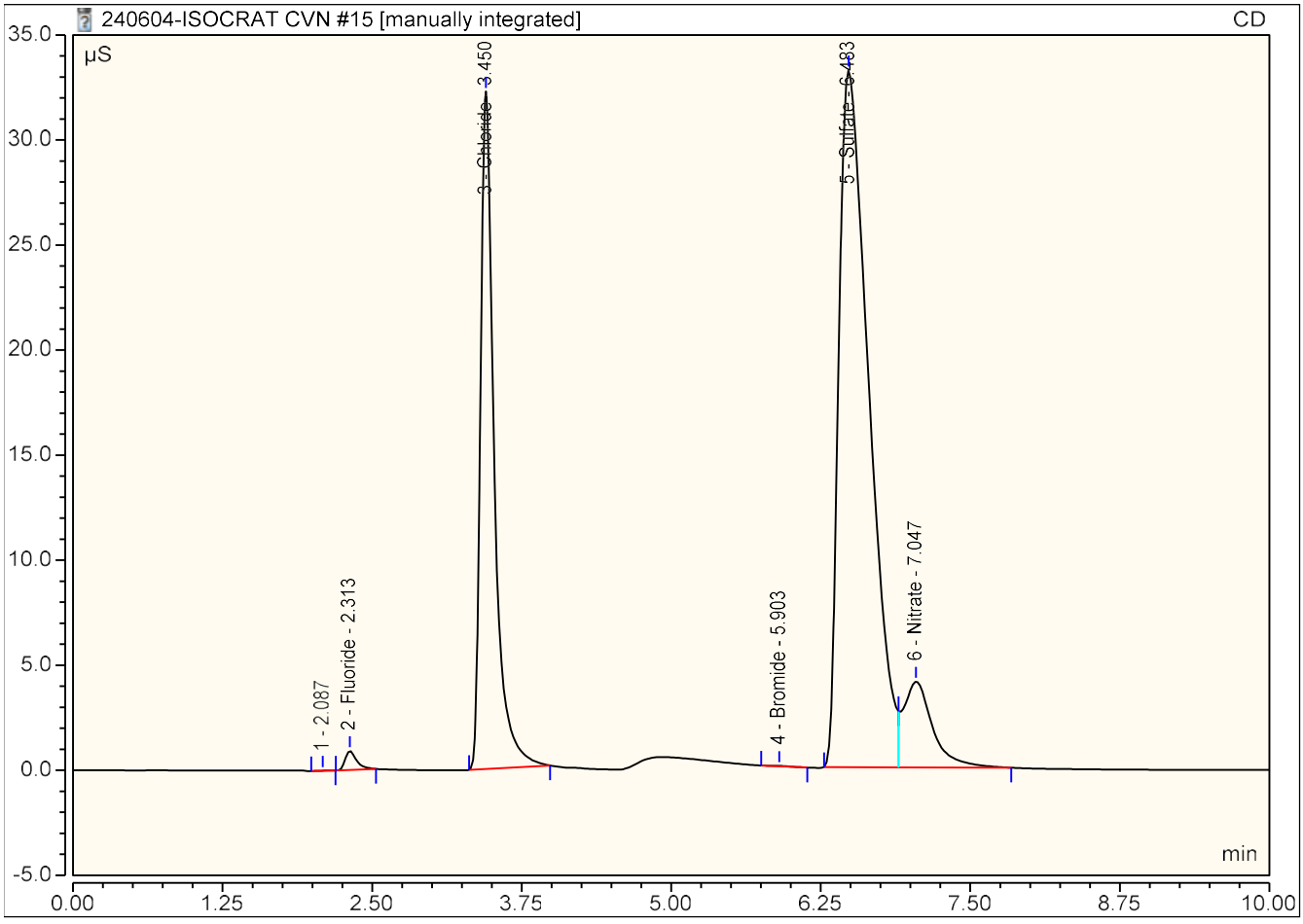
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BM *	0.440	4.145	0.7343
4	3.46	**Chloride**	BMB*	3.340	24.308	8.0836
6	5.92	**Bromide**	BMB	0.095	0.510	0.7735
7	6.64	**Sulfate**	BM *	2.239	10.213	7.9129
8	7.05	**Nitrate**	MB*	0.910	3.692	0.7411
TOTAL:				7.02	42.87	18.25



Peak Integration Report

Sample Name:	**L2430047-01 CL F SO4**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 17:03**	*Run Time:*	**10.00**

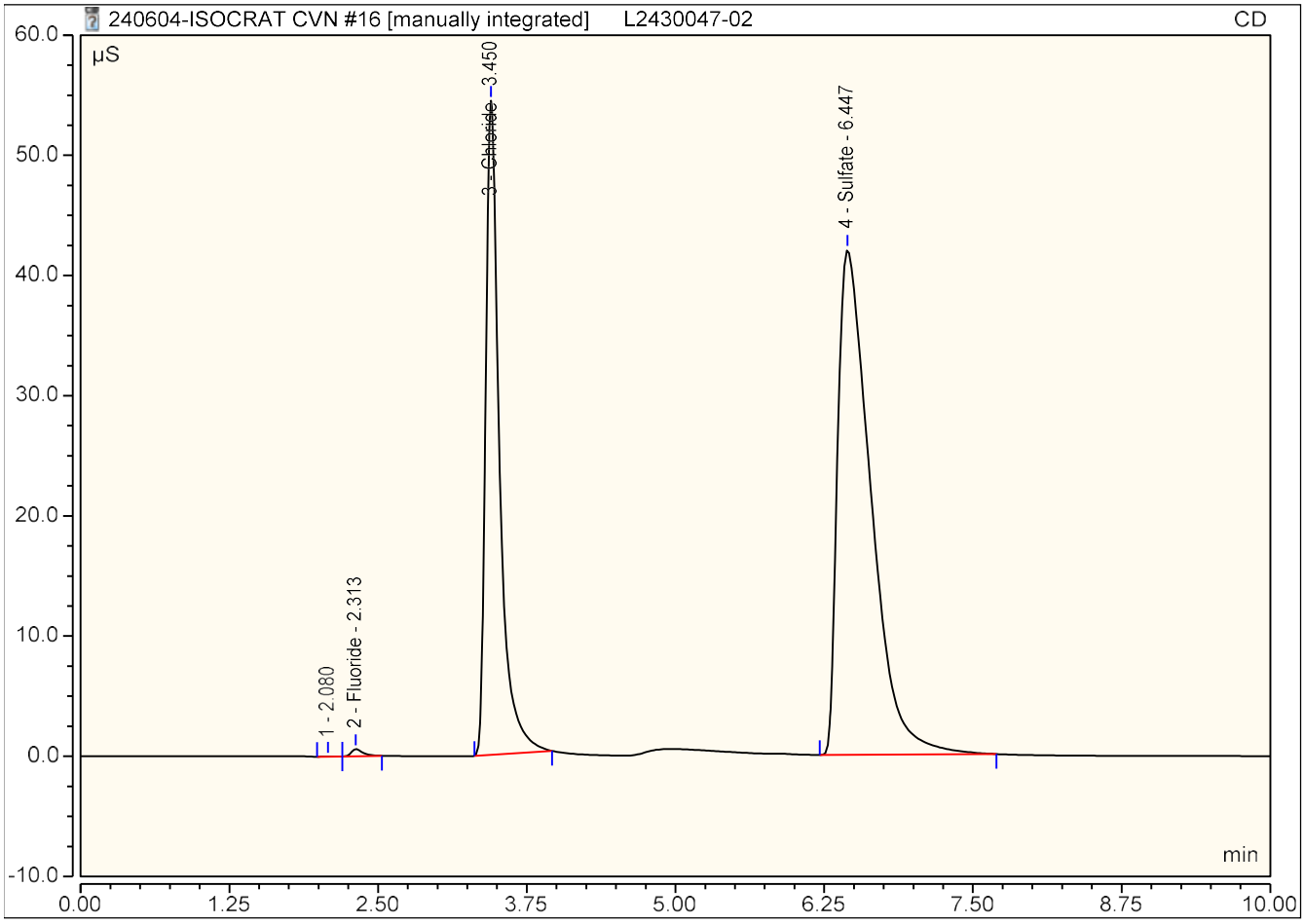
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.100	0.904	0.2161
3	3.45	**Chloride**	BMB*	4.276	32.243	10.2797
4	5.90	**Bromide**	BMB	0.004	0.023	0.0644
5	6.48	**Sulfate**	BM *	9.640	33.165	32.5243
6	7.05	**Nitrate**	MB*	1.159	4.087	0.9464
TOTAL:				15.18	70.42	44.03



Peak Integration Report

Sample Name:	**L2430047-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 17:15**	*Run Time:*	**10.00**

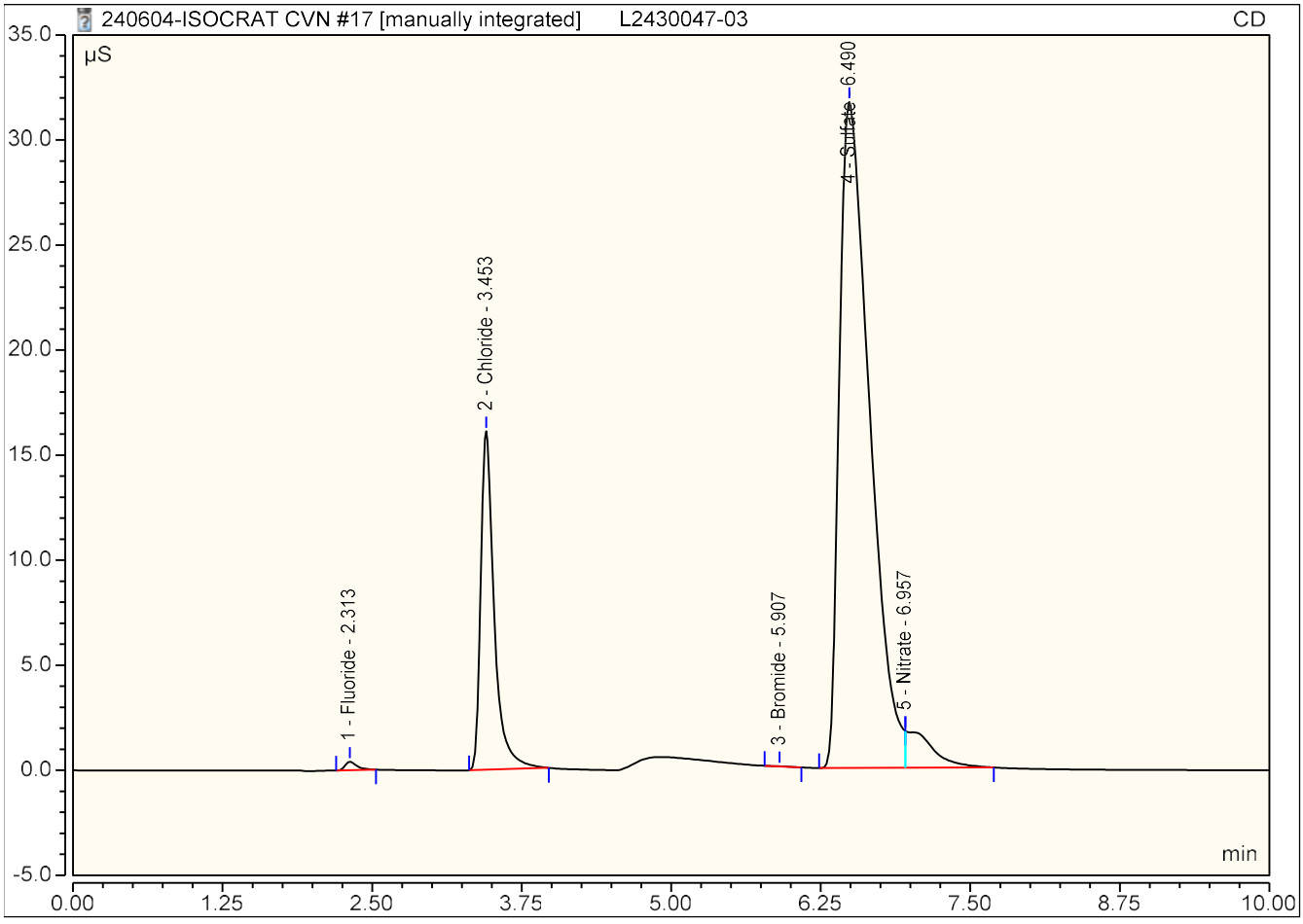
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.066	0.594	0.1645
3	3.45	**Chloride**	BMB*	7.356	54.437	17.5096
4	6.45	**Sulfate**	BMB	13.616	42.040	45.7490
TOTAL:				21.04	97.07	63.42



Peak Integration Report

Sample Name:	**L2430047-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 17:27**	*Run Time:*	**10.00**

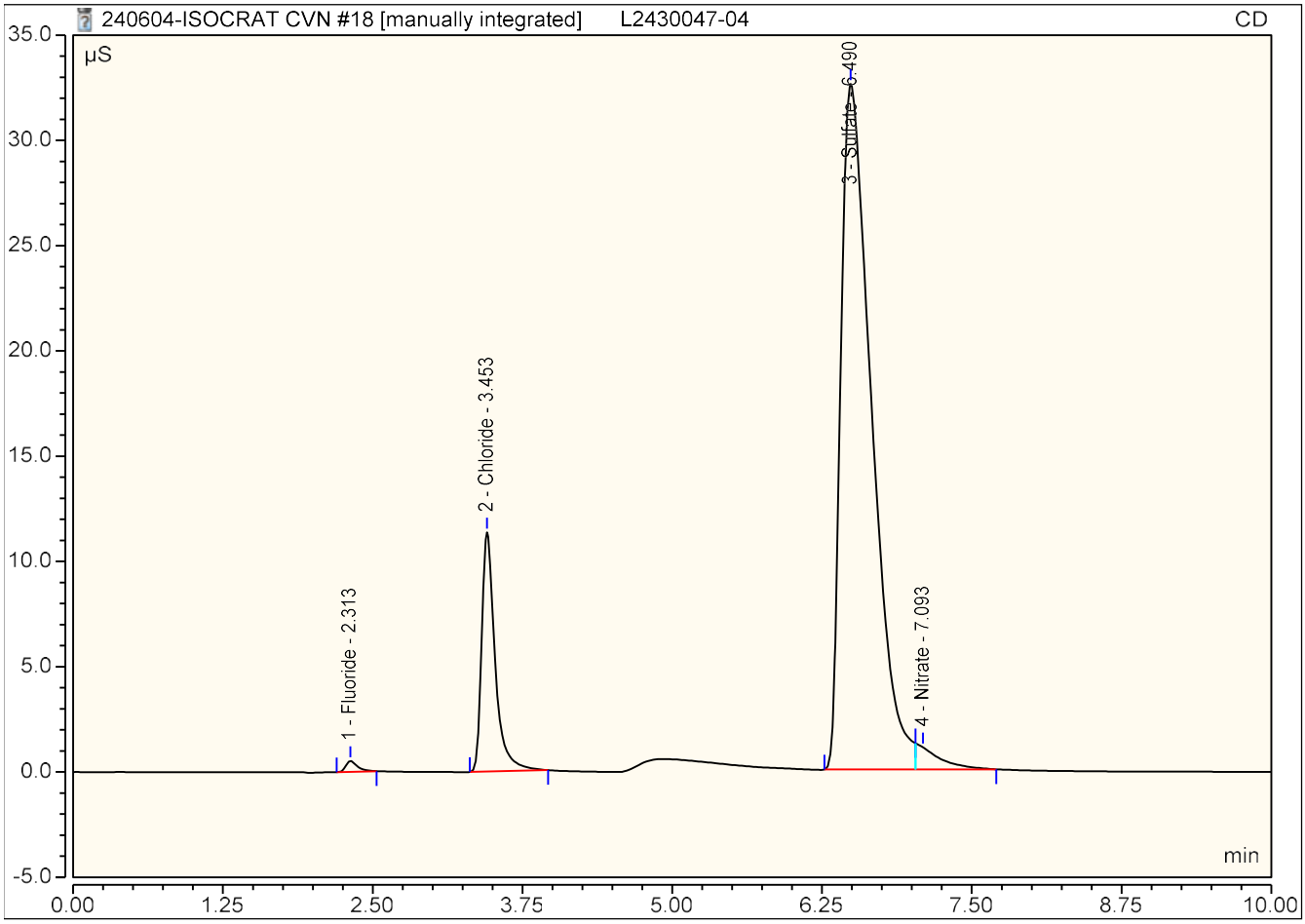
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.31	**Fluoride**	BMB	0.047	0.409	0.1349
2	3.45	**Chloride**	BMB*	2.092	16.101	5.1545
3	5.91	**Bromide**	BMB	0.001	0.009	0.0463
4	6.49	**Sulfate**	BM *	9.296	31.696	31.3831
5	6.96	**Nitrate**	MB*	0.465	1.750	0.3753
TOTAL:				11.90	49.96	37.09



Peak Integration Report

Sample Name:	**L2430047-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 17:39**	*Run Time:*	**10.00**

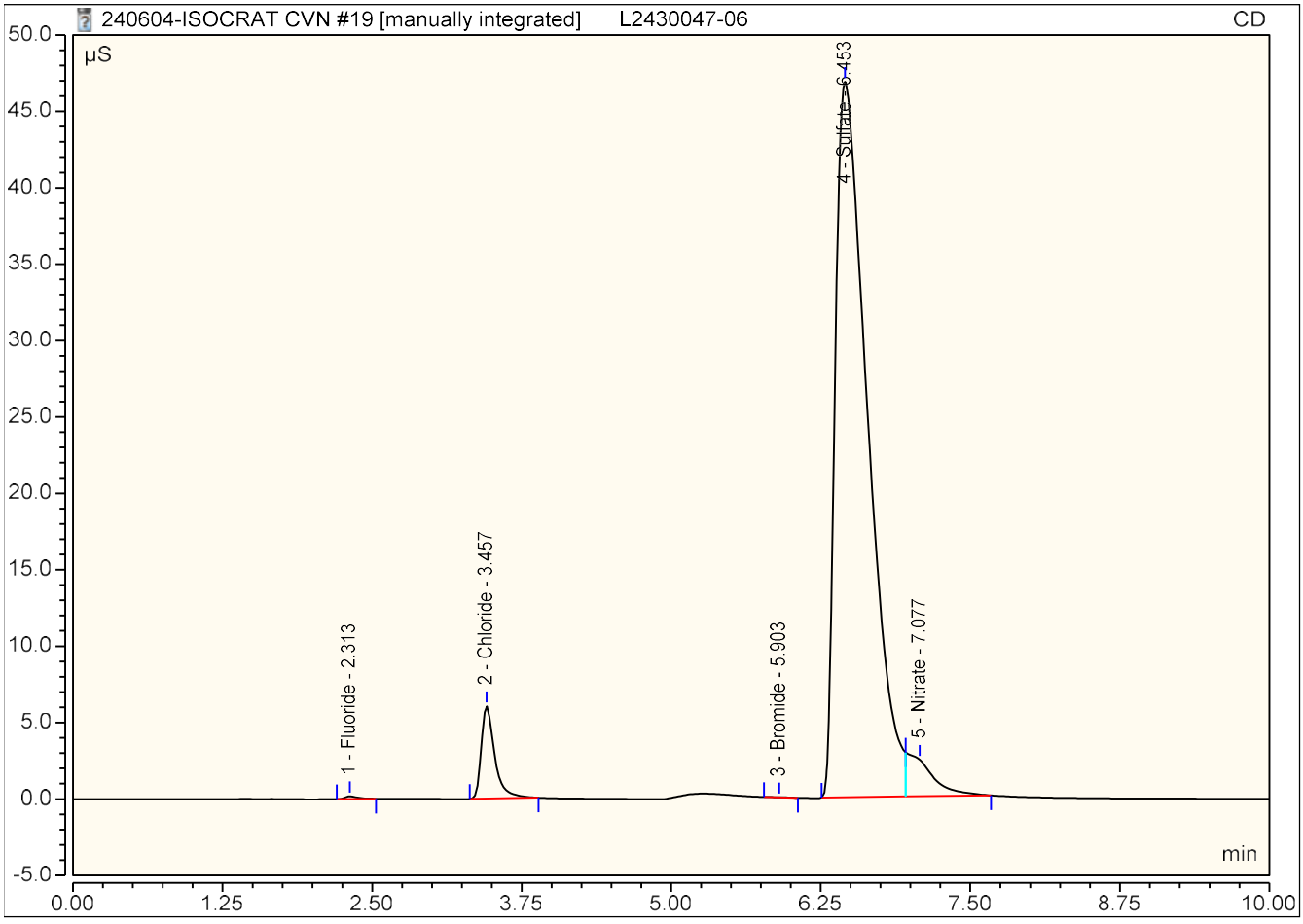
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.31	**Fluoride**	BMB	0.058	0.515	0.1518
2	3.45	**Chloride**	BMB*	1.467	11.358	3.6873
3	6.49	**Sulfate**	BM *	9.666	32.569	32.6136
4	7.09	**Nitrate**	MB*	0.260	1.052	0.2067
TOTAL:				11.45	45.49	36.66



Peak Integration Report

Sample Name:	**L2430047-06**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 17:51**	*Run Time:*	**10.00**

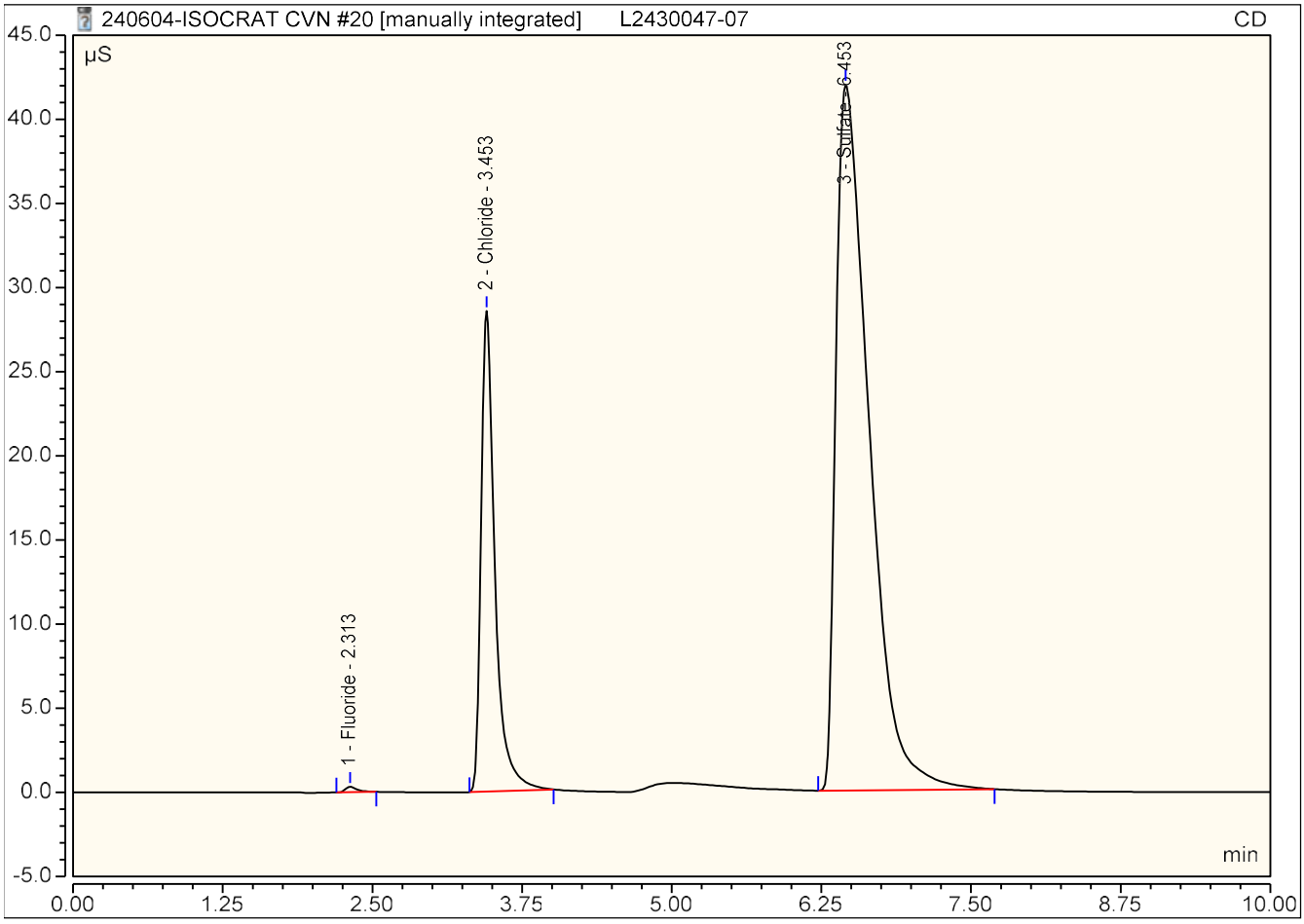
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.31	**Fluoride**	BMB	0.021	0.182	0.0957
2	3.46	**Chloride**	BMB*	0.787	6.063	2.0896
3	5.90	**Bromide**	BMB	0.002	0.012	0.0475
4	6.45	**Sulfate**	BM *	14.610	46.825	49.0544
5	7.08	**Nitrate**	MB*	0.685	2.406	0.5566
TOTAL:				16.10	55.49	51.84



Peak Integration Report

Sample Name:	**L2430047-07**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 18:03**	*Run Time:*	**10.00**

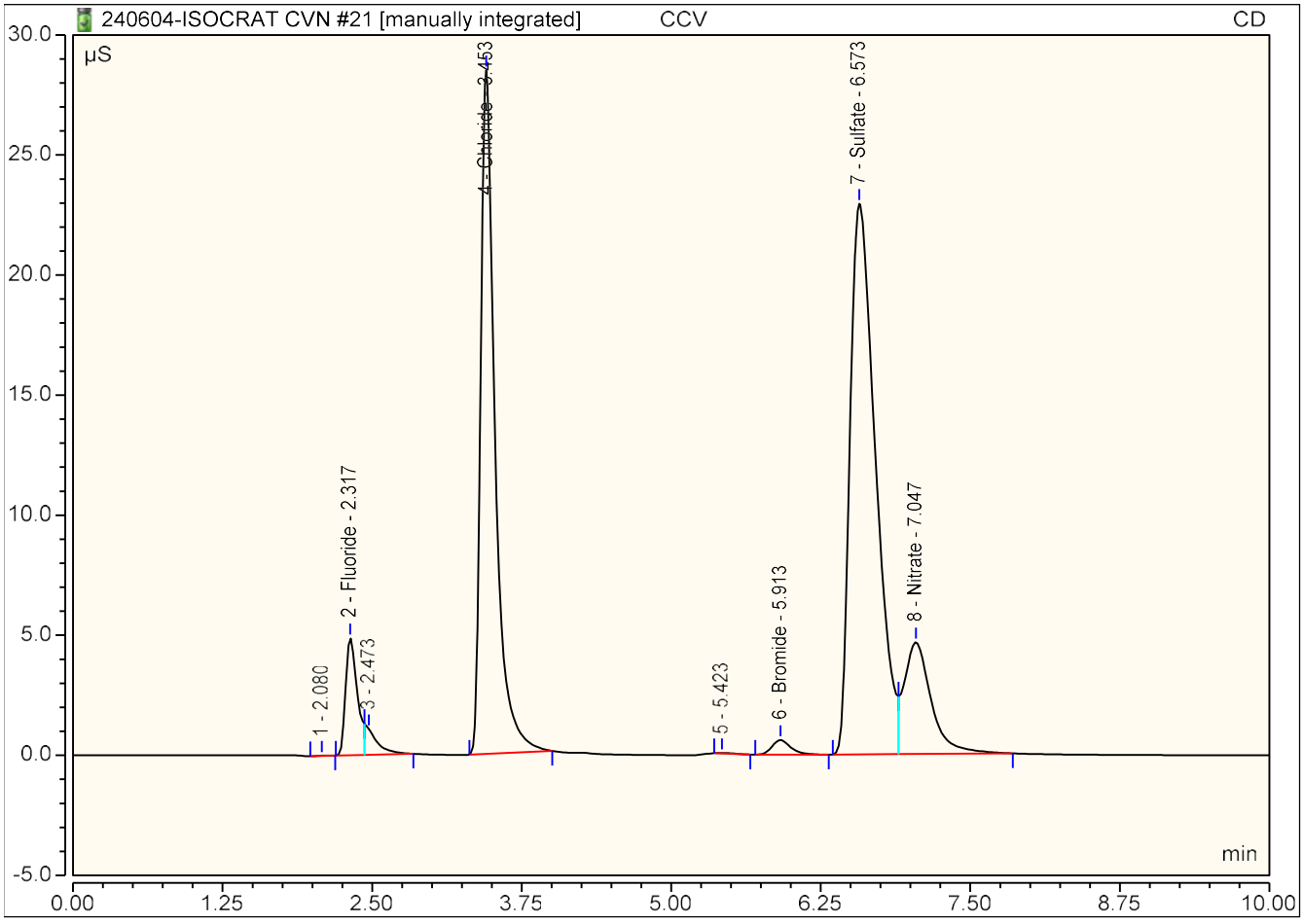
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.31	**Fluoride**	BMB	0.038	0.333	0.1214
2	3.45	**Chloride**	BMB*	3.814	28.557	9.1966
3	6.45	**Sulfate**	BMB	13.469	41.955	45.2606
TOTAL:				17.32	70.84	54.58



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 18:15**	*Run Time:*	**10.00**

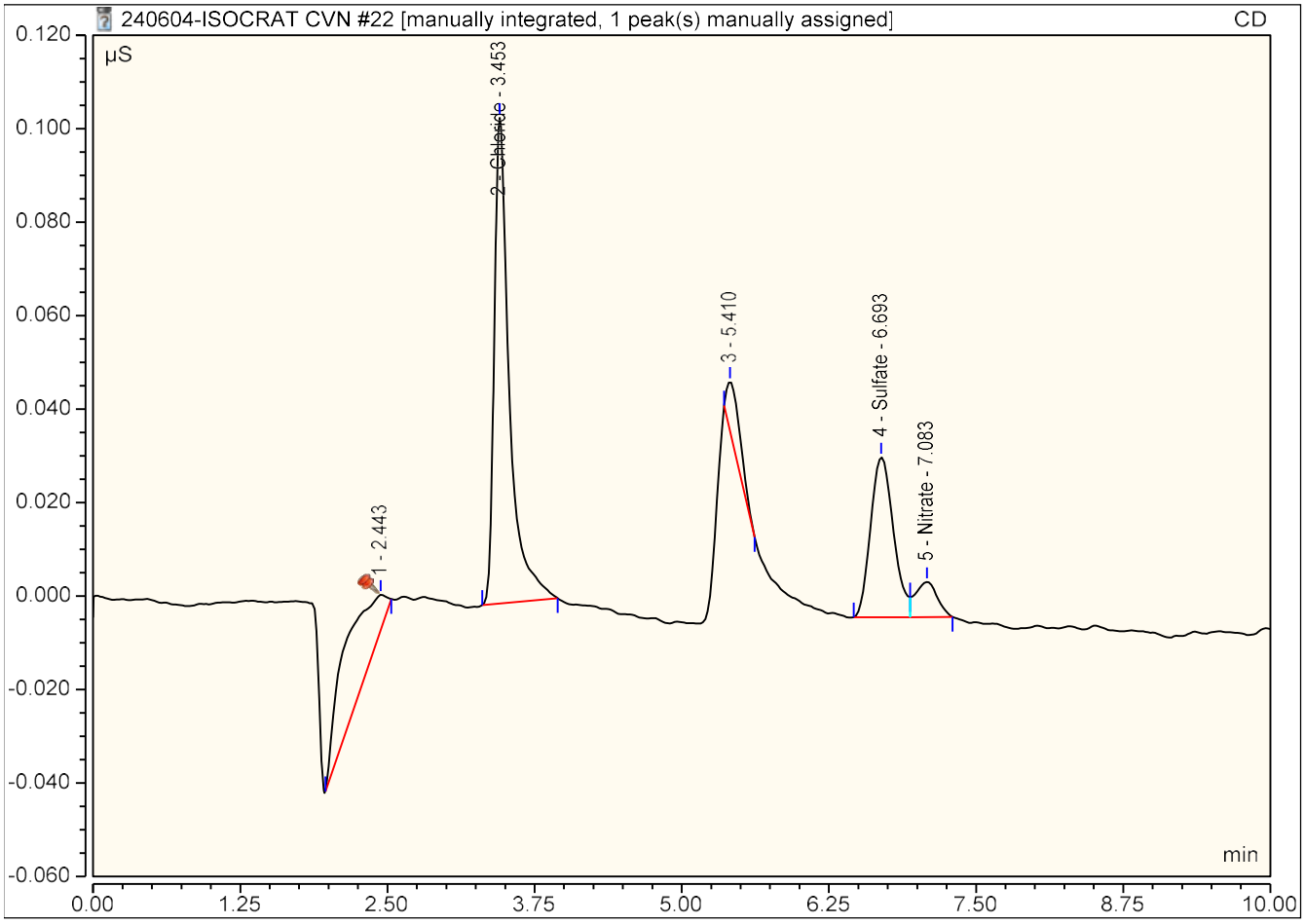
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BM *	0.548	4.870	0.8995
4	3.45	**Chloride**	BMB*	3.949	28.469	9.5129
6	5.91	**Bromide**	BMB	0.112	0.608	0.9047
7	6.57	**Sulfate**	BM *	5.658	22.928	19.2830
8	7.05	**Nitrate**	MB*	1.224	4.658	0.9996
TOTAL:				11.49	61.53	31.60



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 18:27**	*Run Time:*	**10.00**

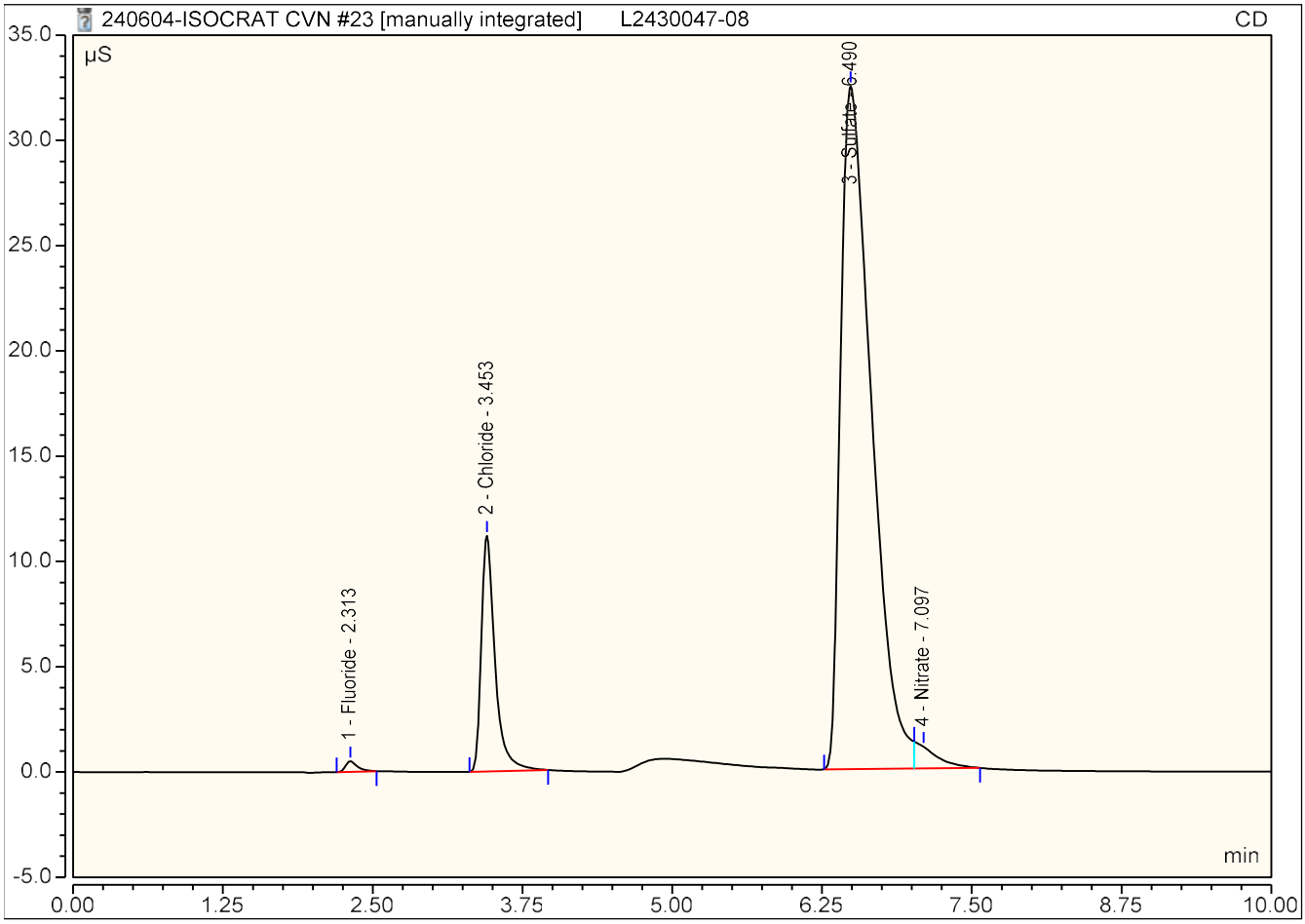
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.45	**Chloride**	BMB*	0.015	0.104	0.2791
4	6.69	**Sulfate**	BM *	0.008	0.034	0.4921
5	7.08	**Nitrate**	MB*	0.002	0.008	n.a.
TOTAL:				0.02	0.15	0.77



Peak Integration Report

Sample Name:	**L2430047-08**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 18:39**	*Run Time:*	**10.00**

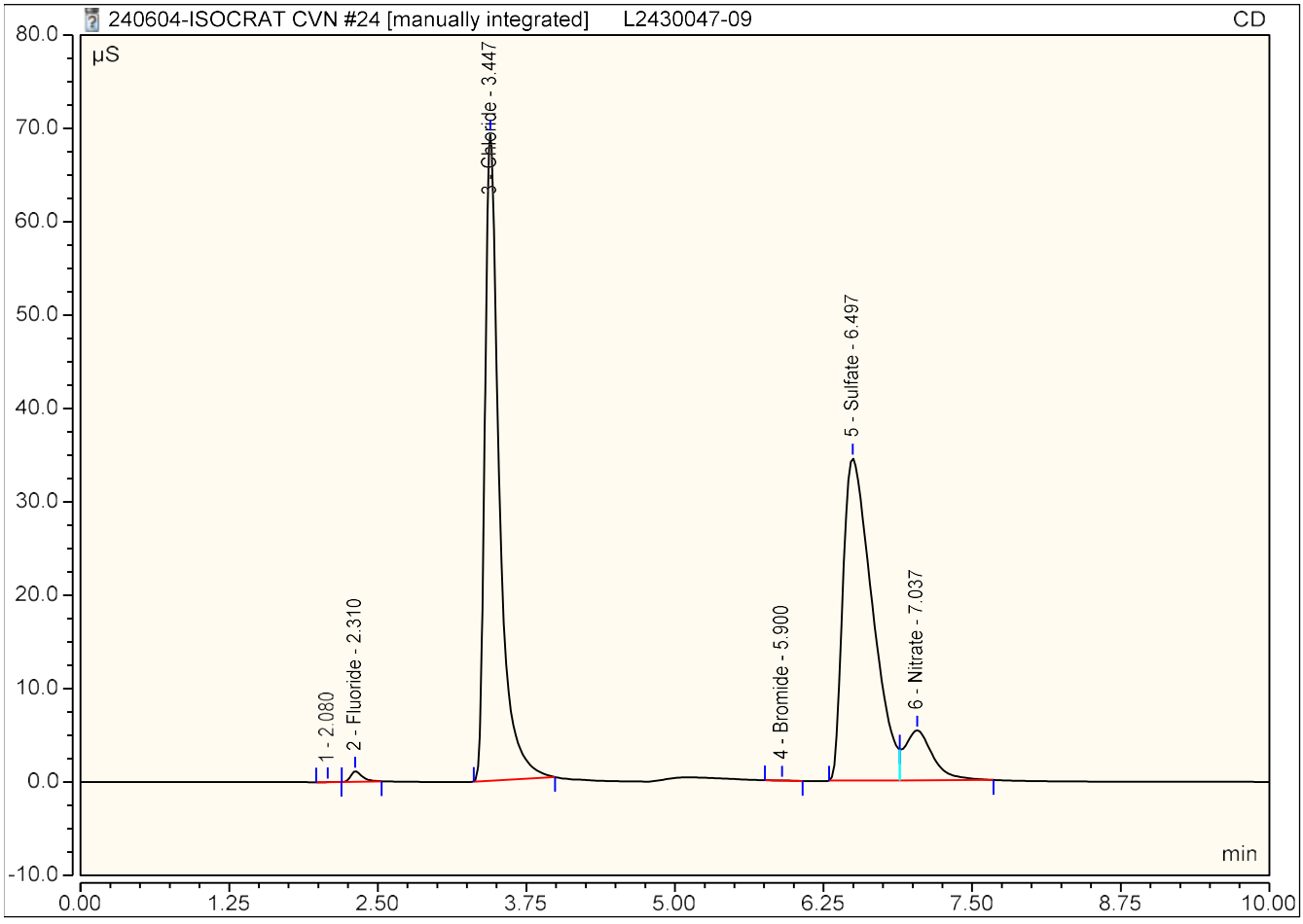
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.31	**Fluoride**	BMB	0.058	0.504	0.1520
2	3.45	**Chloride**	BMB*	1.478	11.191	3.7115
3	6.49	**Sulfate**	BM *	9.686	32.439	32.6783
4	7.10	**Nitrate**	MB*	0.247	1.037	0.1959
TOTAL:				11.47	45.17	36.74



Peak Integration Report

Sample Name:	**L2430047-09**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 18:51**	*Run Time:*	**10.00**

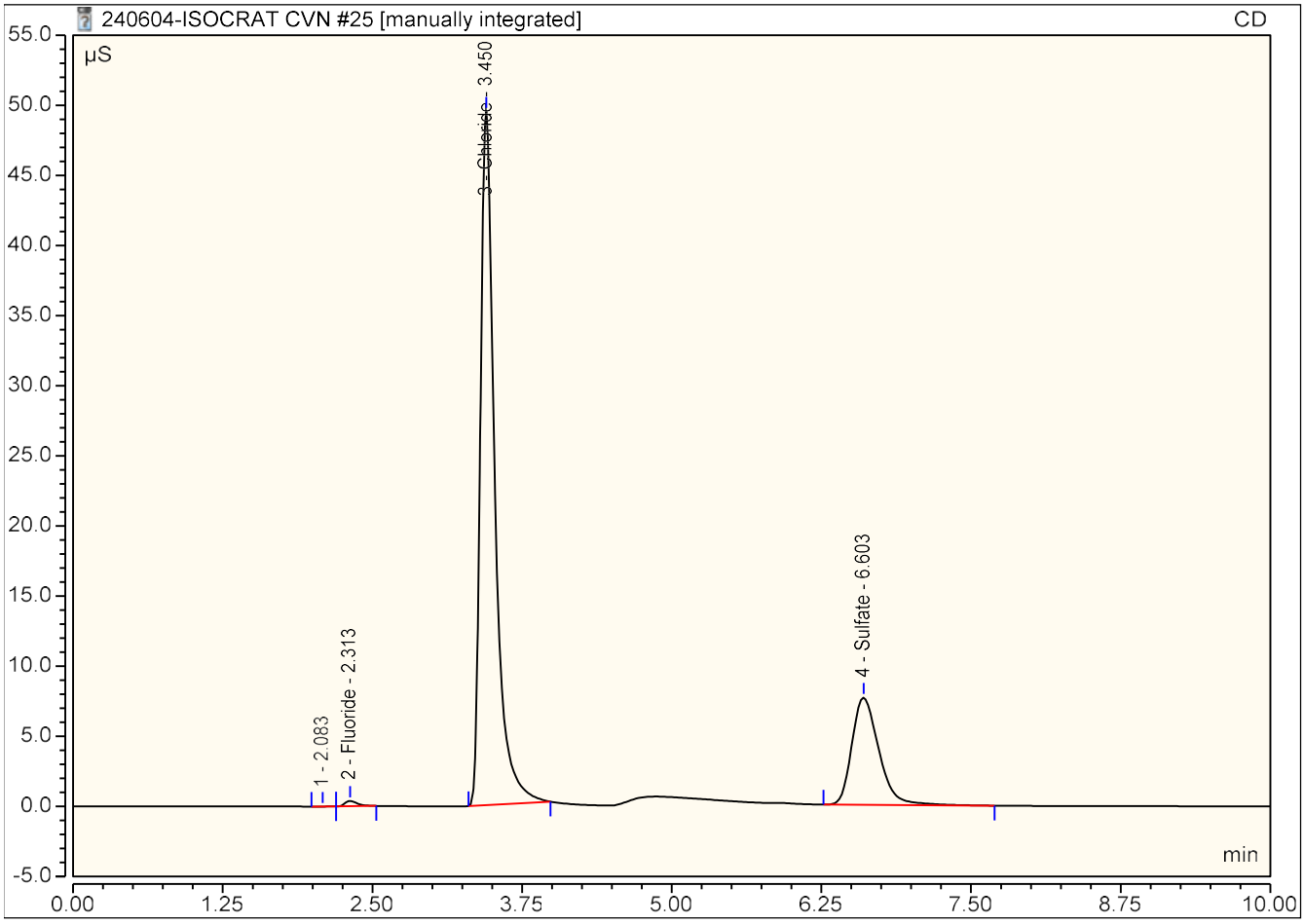
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.126	1.123	0.2562
3	3.45	**Chloride**	BMB*	9.811	69.207	23.2713
4	5.90	**Bromide**	BMB	0.003	0.020	0.0576
5	6.50	**Sulfate**	BM *	9.858	34.509	33.2517
6	7.04	**Nitrate**	MB*	1.463	5.352	1.1963
TOTAL:				21.26	110.21	58.03



Peak Integration Report

Sample Name:	**L2430033-01 CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 19:04**	*Run Time:*	**10.00**

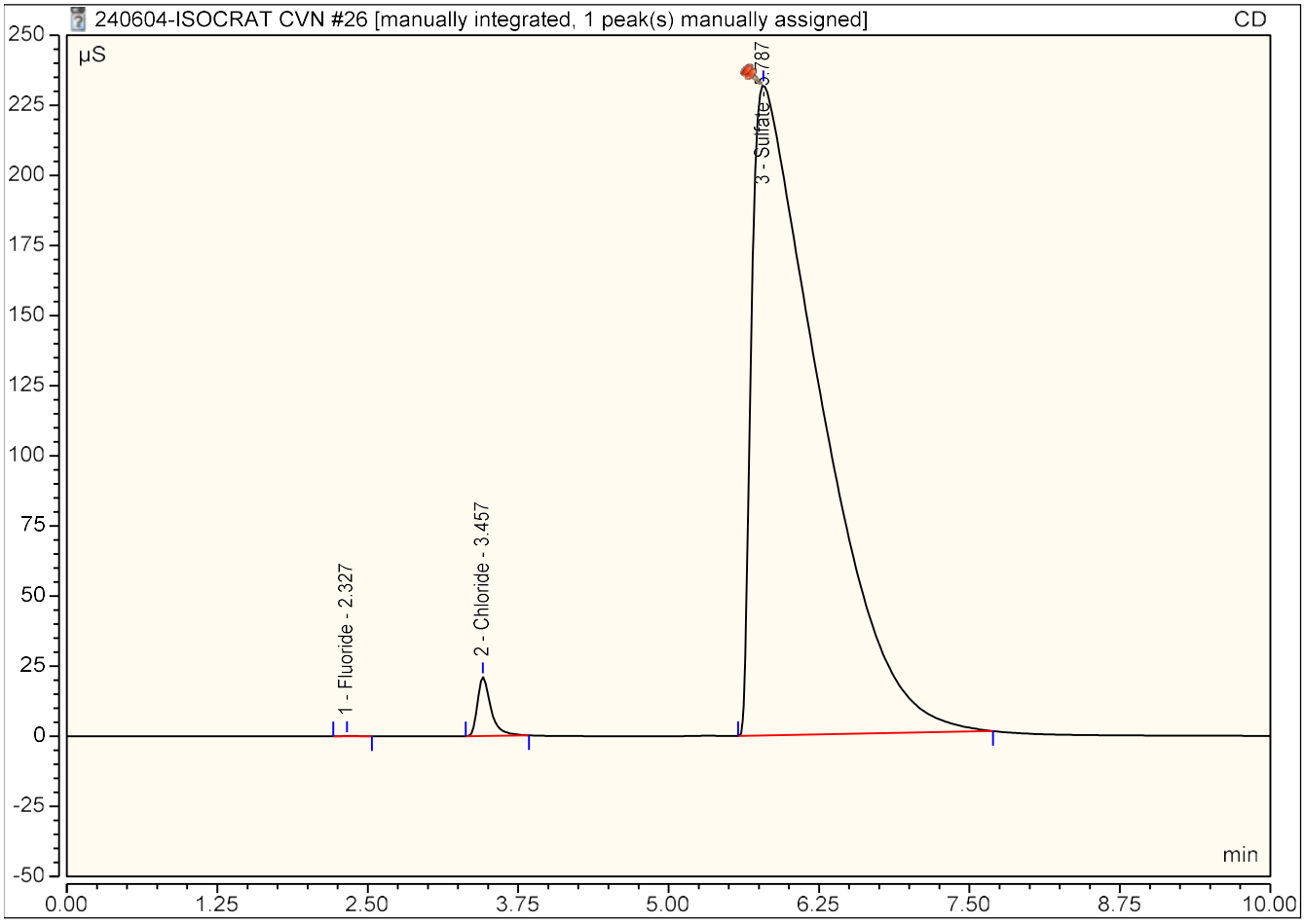
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.046	0.384	0.1334
3	3.45	**Chloride**	BMB*	6.889	49.459	16.4124
4	6.60	**Sulfate**	BMB	2.001	7.651	7.1196
TOTAL:				8.93	57.49	23.67



Peak Integration Report

Sample Name:	**L2430033-02; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 19:16**	*Run Time:*	**10.00**

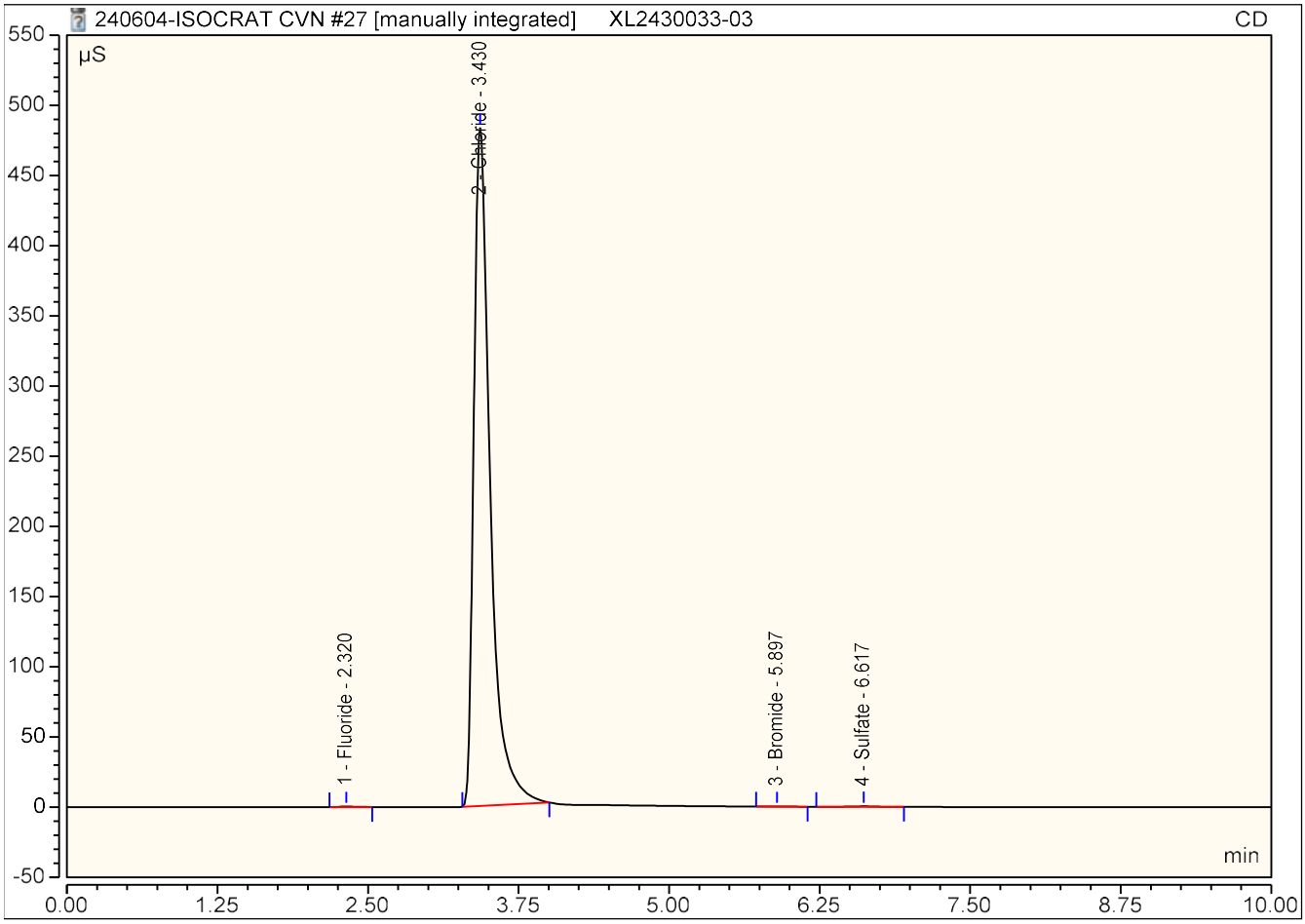
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.33	**Fluoride**	BMB	0.013	0.096	0.8372
2	3.46	**Chloride**	BMB*	2.706	21.040	65.9575
3	5.79	**Sulfate**	BMB^	153.656	231.899	5114.6898
TOTAL:				156.38	253.04	5181.48



Peak Integration Report

Sample Name:	**XL2430033-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 19:28**	*Run Time:*	**10.00**

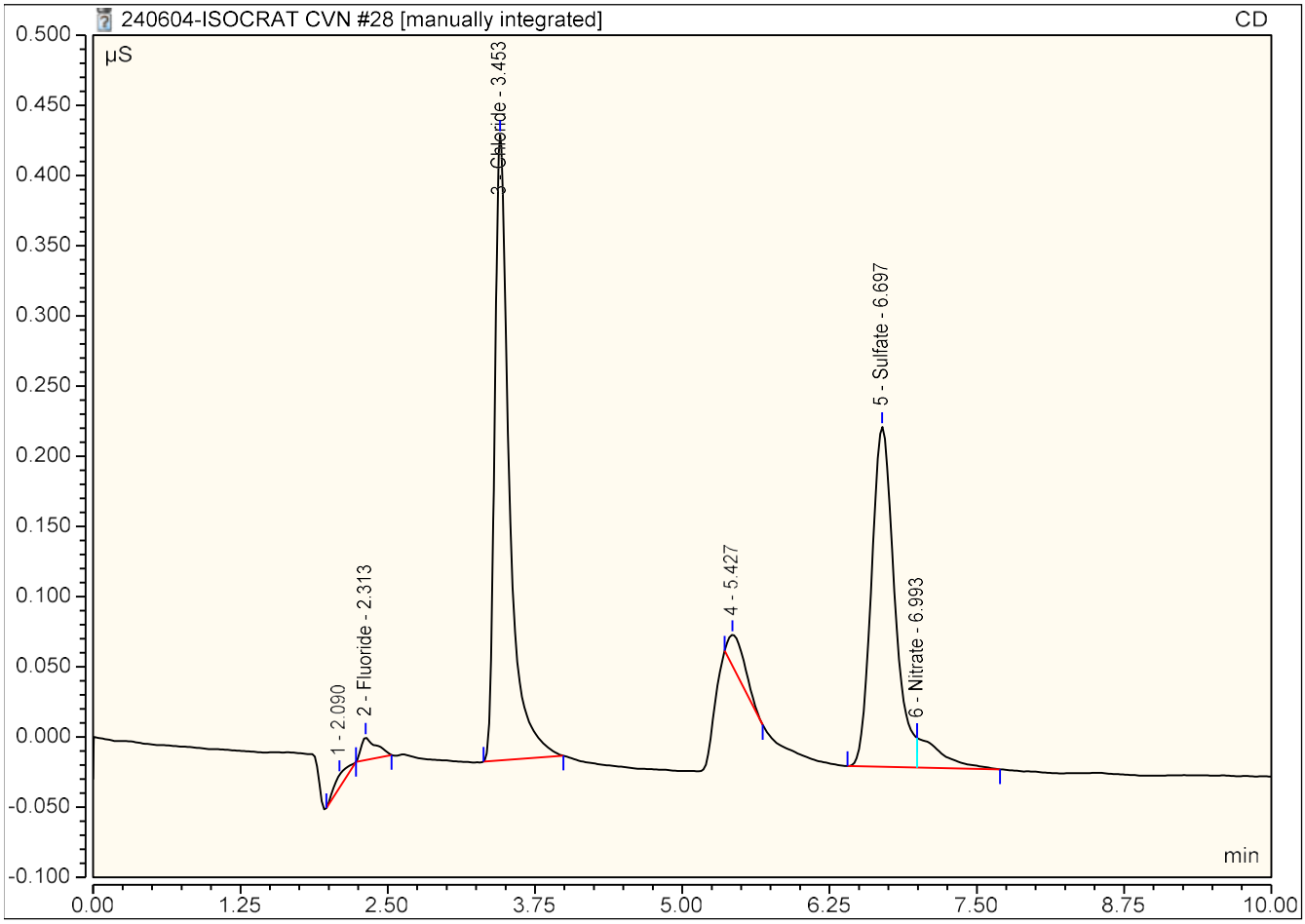
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.32	**Fluoride**	BMB	0.068	0.468	0.1669
2	3.43	**Chloride**	BMB*	76.028	482.831	178.7019
3	5.90	**Bromide**	BMB	0.017	0.092	0.1687
4	6.62	**Sulfate**	BMB	0.088	0.354	0.7602
TOTAL:				76.20	483.75	179.80



Peak Integration Report

Sample Name:	**XL2430345-01 CL; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 19:40**	*Run Time:*	**10.00**

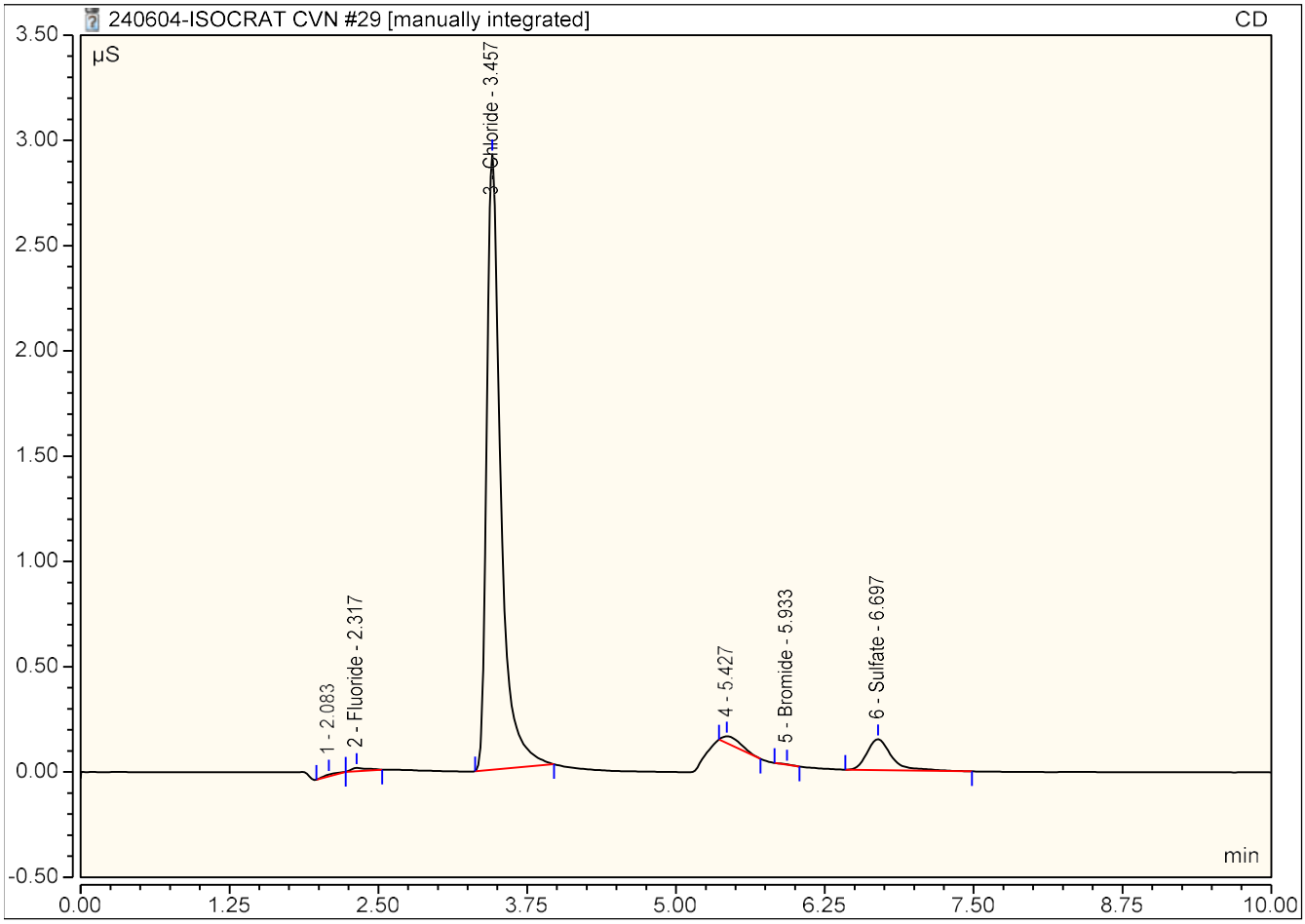
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.002	0.016	0.6745
3	3.45	**Chloride**	BMB*	0.064	0.446	3.9345
5	6.70	**Sulfate**	BM *	0.055	0.242	6.4934
6	6.99	**Nitrate**	MB*	0.005	0.021	n.a.
TOTAL:				0.13	0.72	11.10



Peak Integration Report

Sample Name:	**XL2430345-02; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 19:52**	*Run Time:*	**10.00**

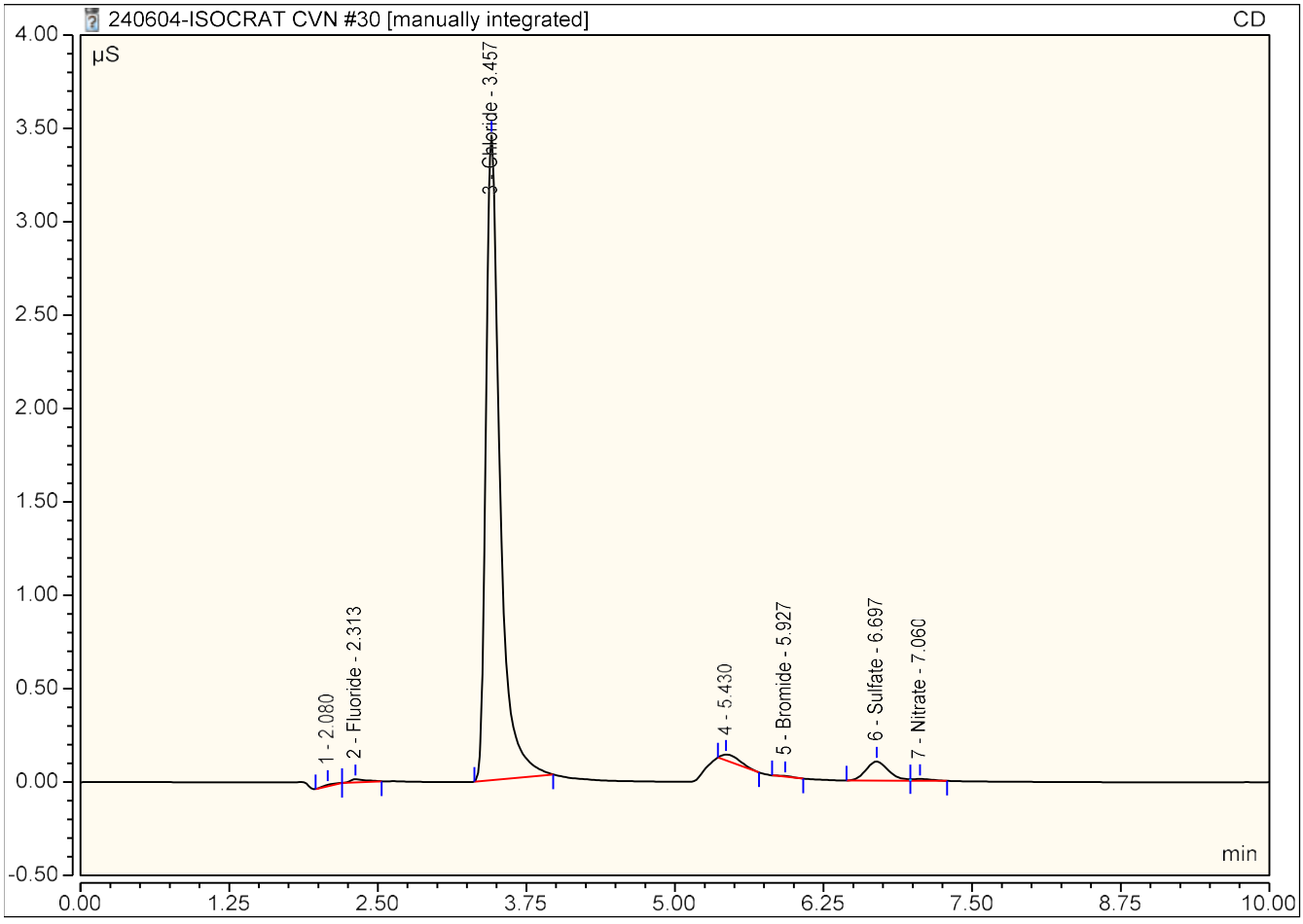
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.002	0.016	0.6747
3	3.46	**Chloride**	BMB*	0.402	2.923	11.8599
5	5.93	**Bromide**	BMB	0.000	0.002	0.3678
6	6.70	**Sulfate**	BMB	0.035	0.147	5.8370
TOTAL:				0.44	3.09	18.74



Peak Integration Report

Sample Name:	**XL2430345-03; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 20:04**	*Run Time:*	**10.00**

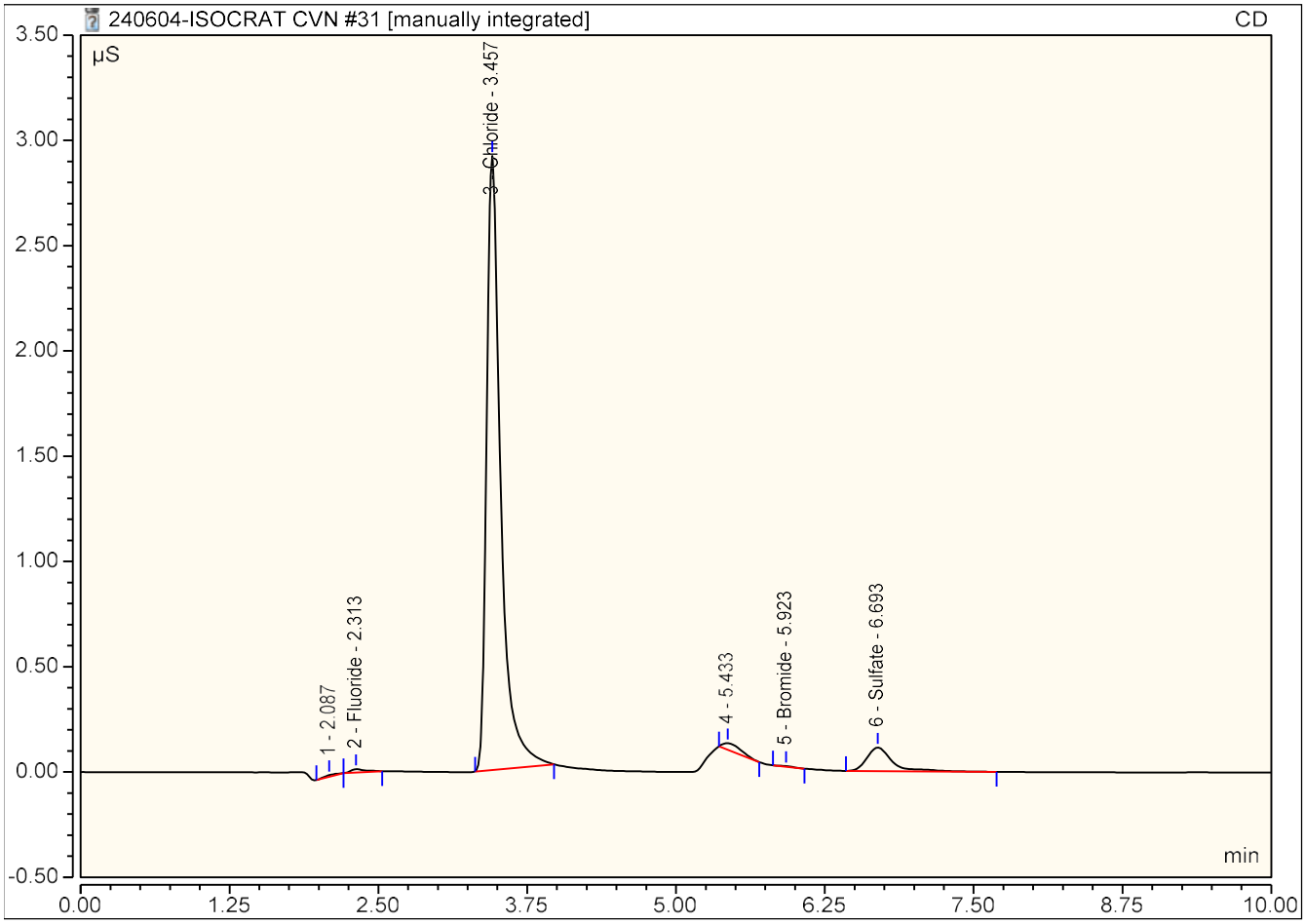
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.002	0.017	0.6754
3	3.46	**Chloride**	BMB*	0.475	3.451	13.5773
5	5.93	**Bromide**	BMB	0.000	0.004	0.3898
6	6.70	**Sulfate**	BM *	0.023	0.102	5.4186
7	7.06	**Nitrate**	MB*	0.002	0.009	n.a.
TOTAL:				0.50	3.58	20.06



Peak Integration Report

Sample Name:	**XL2430345-04; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 20:16**	*Run Time:*	**10.00**

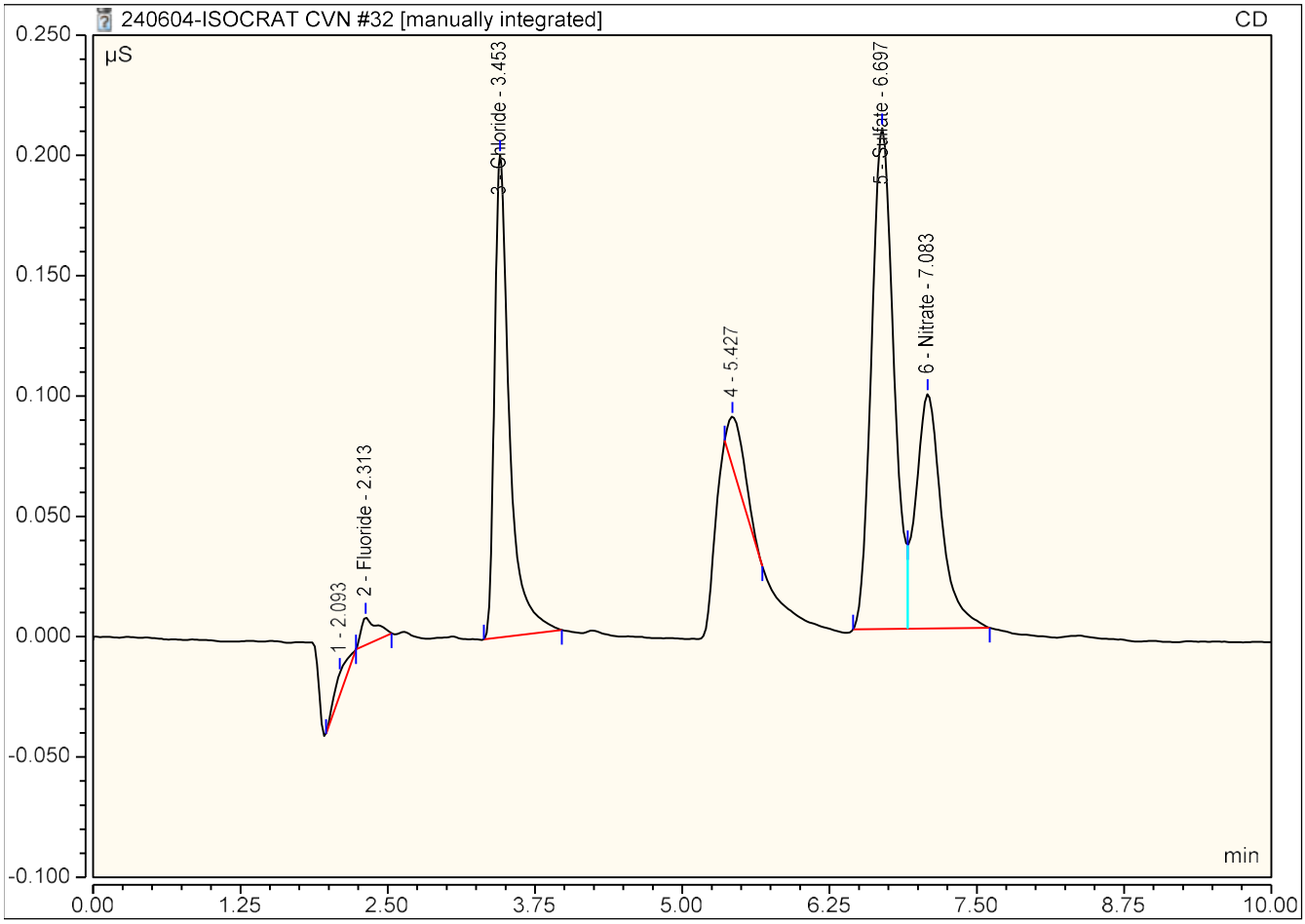
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.002	0.016	0.6716
3	3.46	**Chloride**	BMB*	0.401	2.917	11.8475
5	5.92	**Bromide**	BMB	0.000	0.003	0.3869
6	6.69	**Sulfate**	BMB	0.028	0.111	5.5817
TOTAL:				0.43	3.05	18.49



Peak Integration Report

Sample Name:	**XL2430345-05; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 20:28**	*Run Time:*	**10.00**

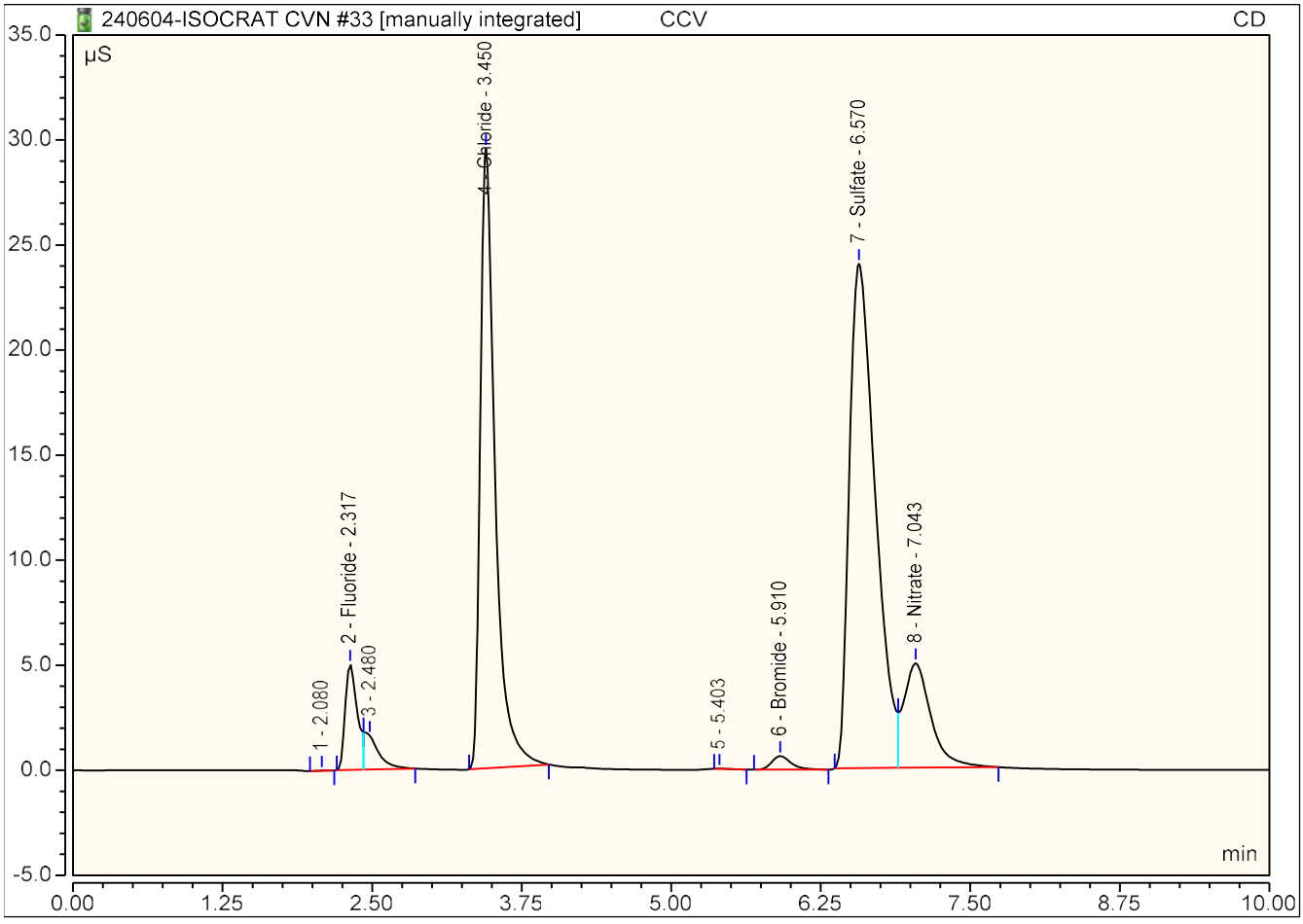
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.002	0.011	0.6641
3	3.45	**Chloride**	BMB*	0.029	0.201	3.1210
5	6.70	**Sulfate**	BM *	0.045	0.208	6.1700
6	7.08	**Nitrate**	MB*	0.025	0.097	0.1321
TOTAL:				0.10	0.52	10.09



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 20:40**	*Run Time:*	**10.00**

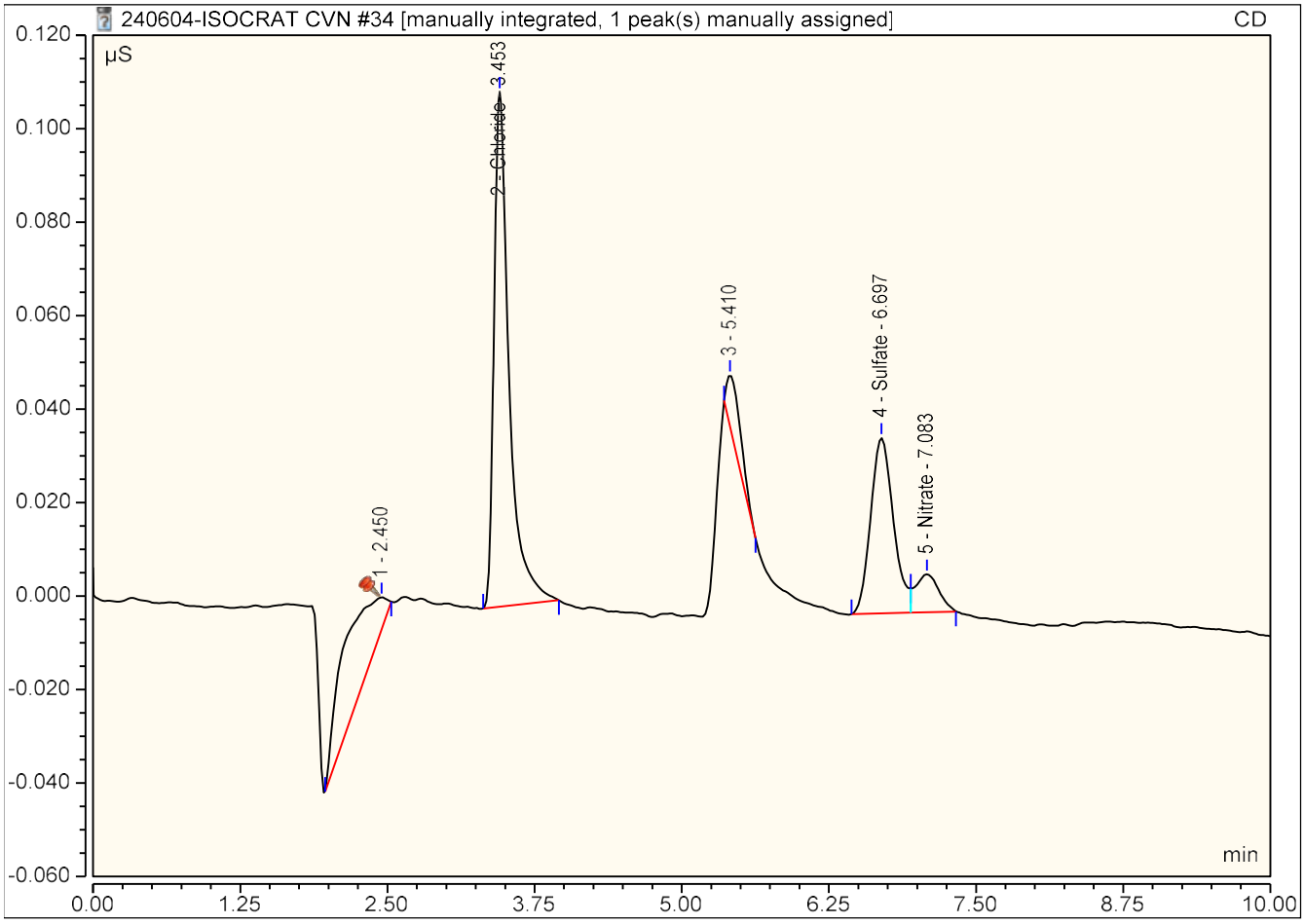
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BM *	0.582	5.015	0.9507
4	3.45	**Chloride**	BMB*	4.230	29.502	10.1714
6	5.91	**Bromide**	BMB	0.121	0.650	0.9754
7	6.57	**Sulfate**	BM *	6.023	24.001	20.4981
8	7.04	**Nitrate**	MB*	1.314	4.975	1.0733
TOTAL:				12.27	64.14	33.67



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 20:52**	*Run Time:*	**10.00**

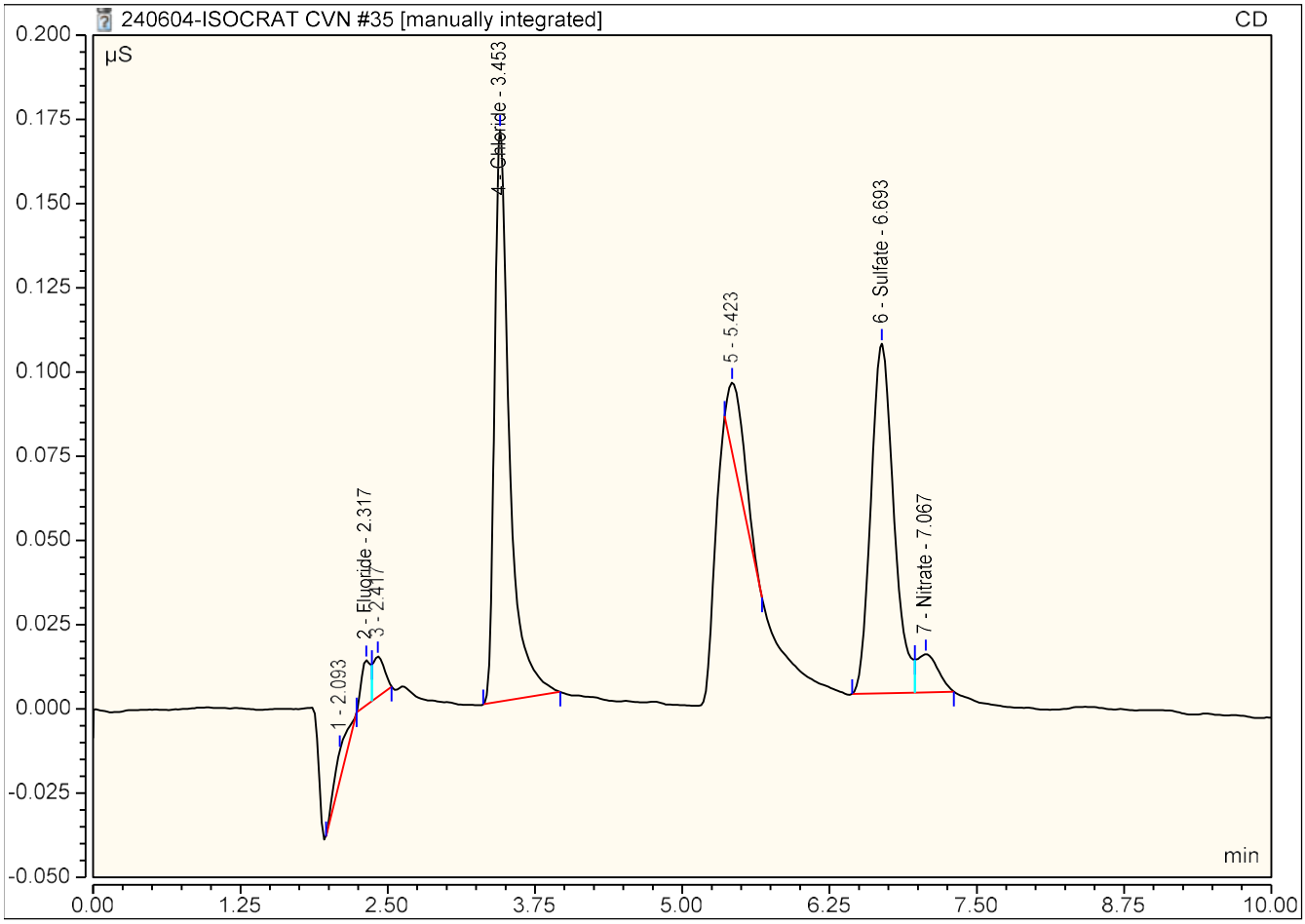
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.45	**Chloride**	BMB*	0.016	0.110	0.2812
4	6.70	**Sulfate**	BM *	0.008	0.038	0.4945
5	7.08	**Nitrate**	MB*	0.002	0.008	n.a.
TOTAL:				0.03	0.16	0.78



Peak Integration Report

Sample Name:	**XL2430345-06; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 21:04**	*Run Time:*	**10.00**

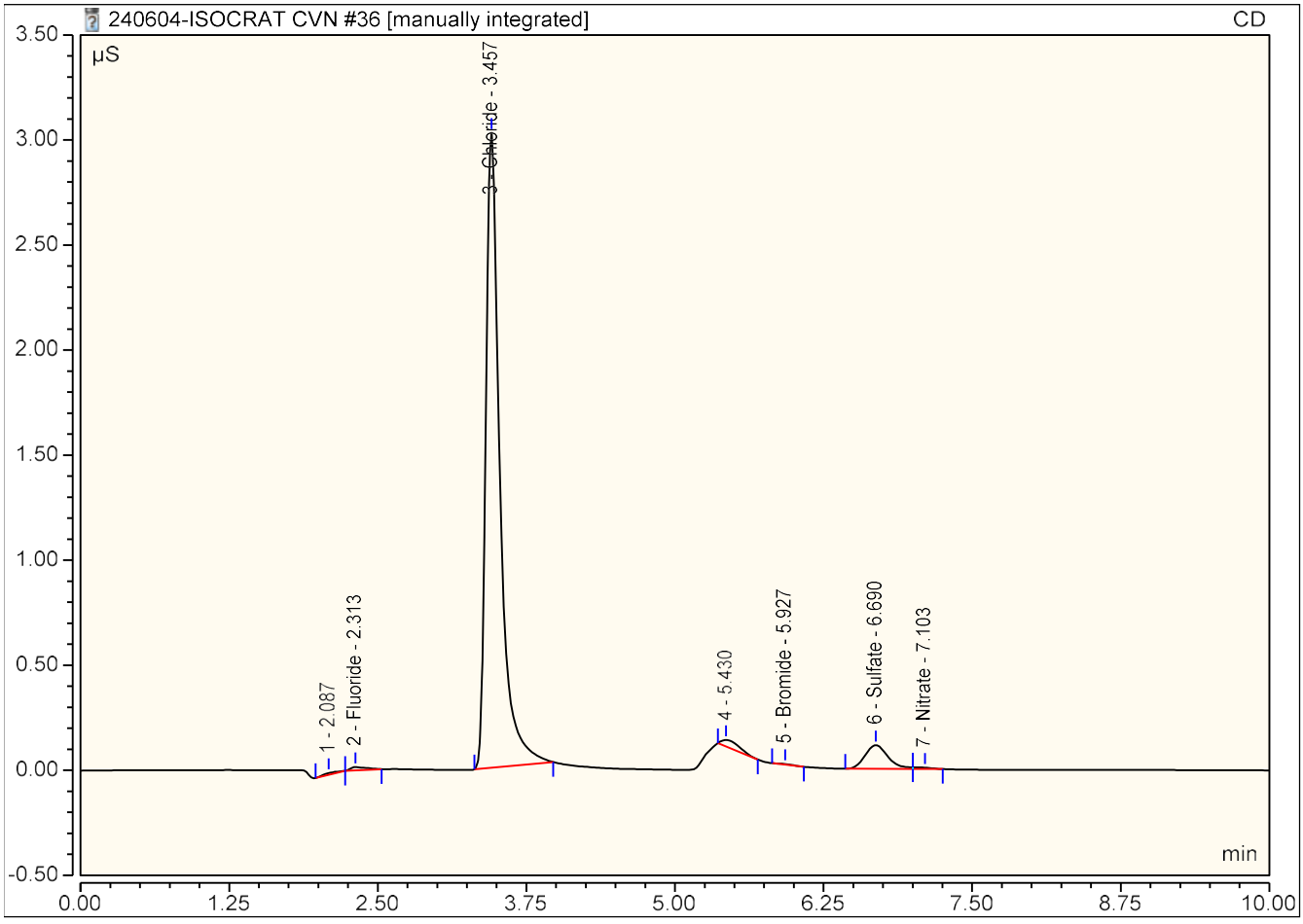
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	bM *	0.001	0.013	0.6566
4	3.45	**Chloride**	BMB*	0.025	0.170	3.0170
6	6.69	**Sulfate**	BM *	0.023	0.104	5.4391
7	7.07	**Nitrate**	MB*	0.002	0.011	n.a.
TOTAL:				0.05	0.30	9.11



Peak Integration Report

Sample Name:	**XL2430345-13; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 21:17**	*Run Time:*	**10.00**

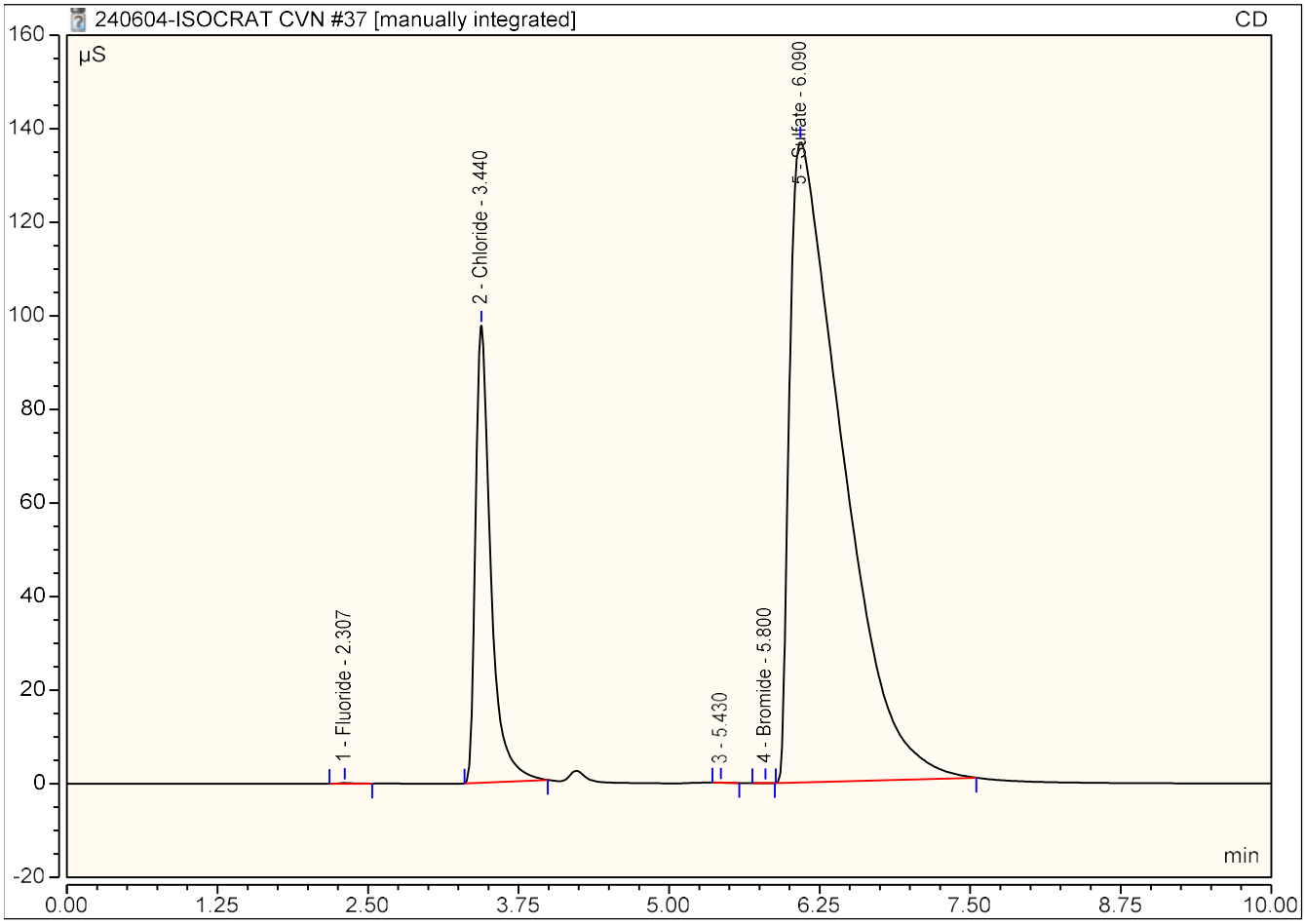
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.002	0.016	0.6744
3	3.46	**Chloride**	BMB*	0.415	3.022	12.1680
5	5.93	**Bromide**	BMB	0.000	0.003	0.3841
6	6.69	**Sulfate**	BM *	0.025	0.113	5.5043
7	7.10	**Nitrate**	MB*	0.001	0.006	n.a.
TOTAL:				0.44	3.16	18.73



Peak Integration Report

Sample Name:	**L2430219-01 F CL SO4 BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 21:29**	*Run Time:*	**10.00**

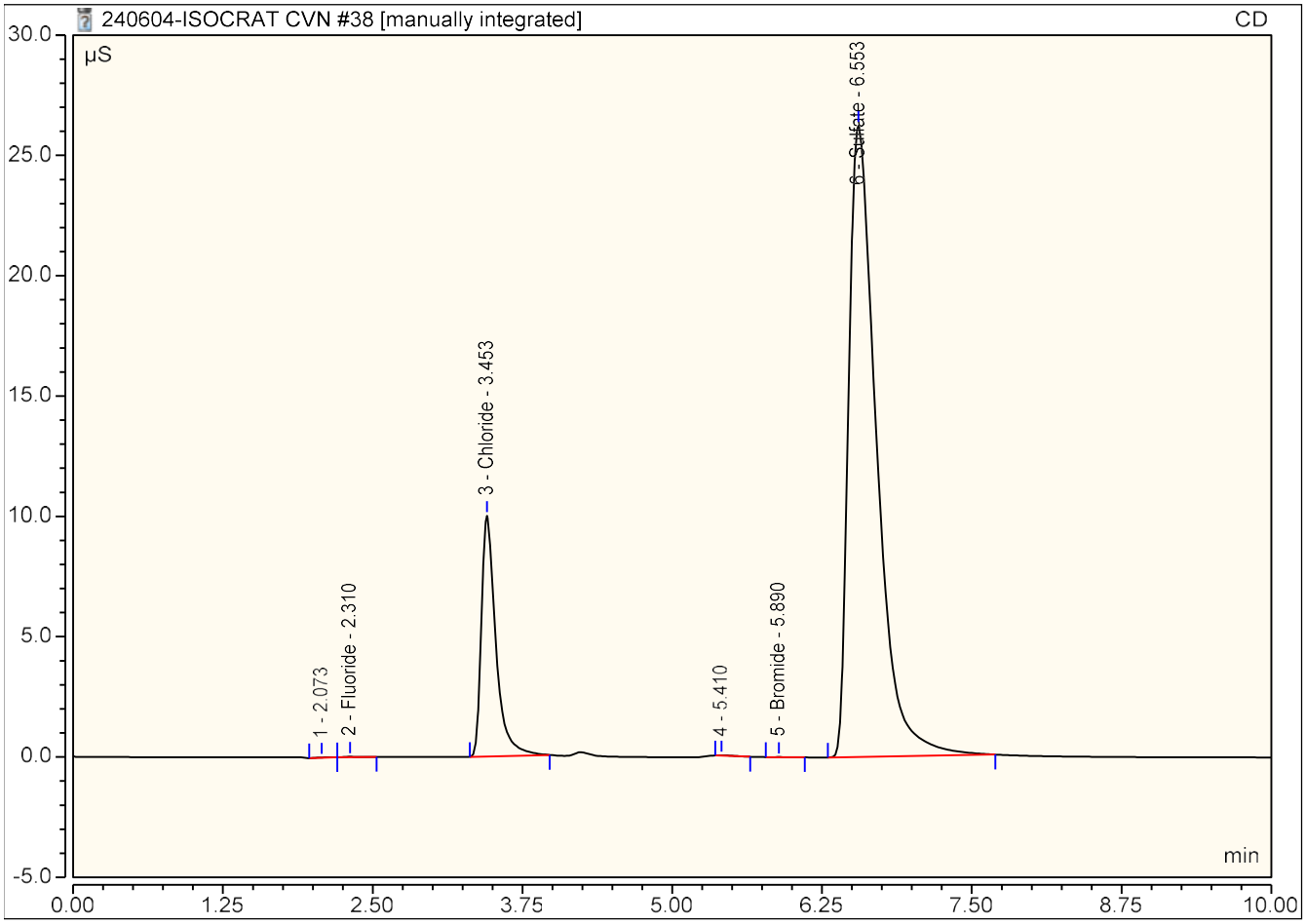
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.31	**Fluoride**	BMB	0.020	0.158	0.0936
2	3.44	**Chloride**	BMB*	14.362	97.719	33.9536
4	5.80	**Bromide**	BMB	0.003	0.033	0.0611
5	6.09	**Sulfate**	BMB*	69.145	137.013	230.4188
TOTAL:				83.53	234.92	264.53



Peak Integration Report

Sample Name:	**L2430219-01; 10X SO4 BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 21:41**	*Run Time:*	**10.00**

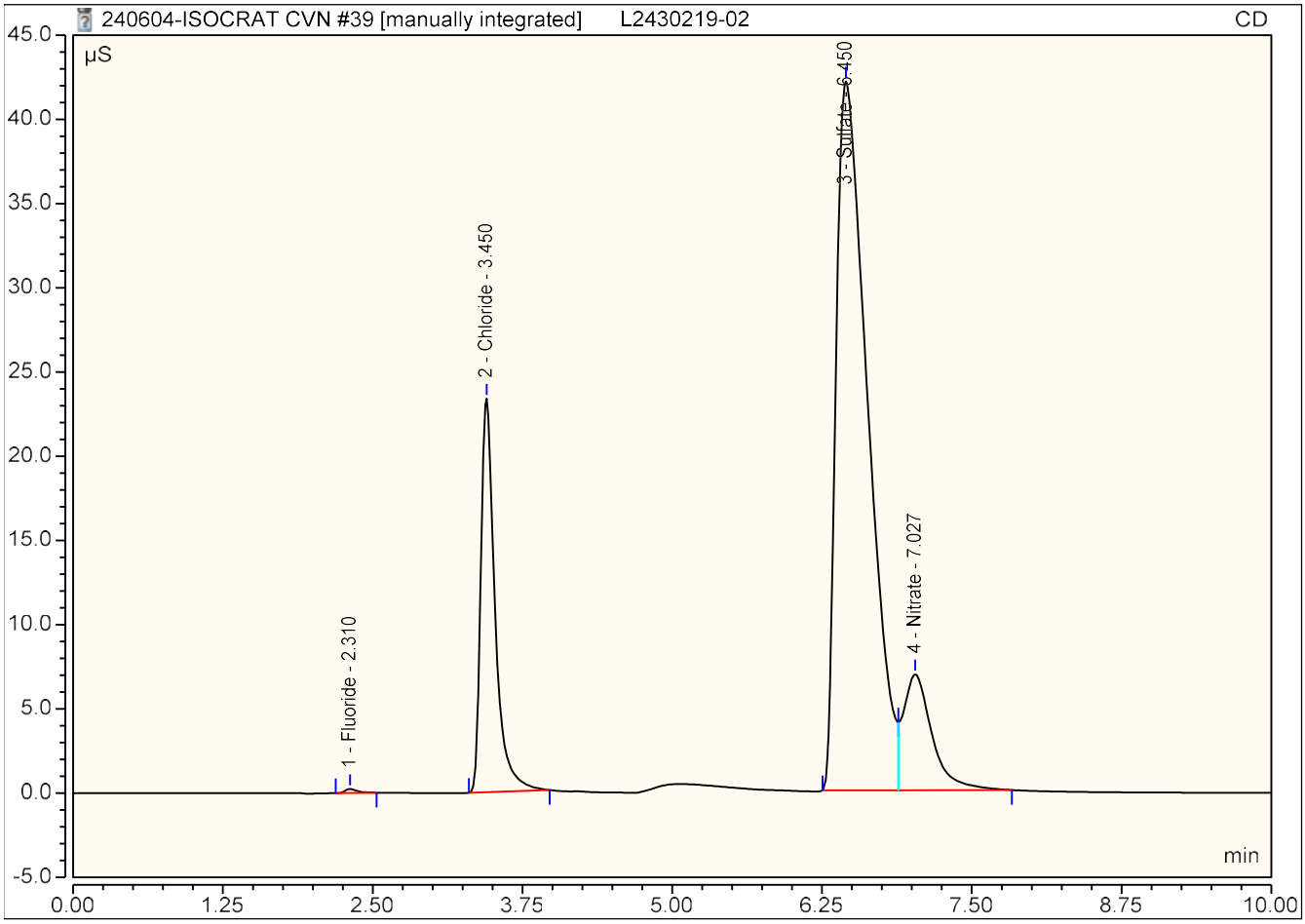
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.002	0.016	0.6751
3	3.45	**Chloride**	BMB*	1.395	10.001	35.1858
5	5.89	**Bromide**	BMB	0.001	0.004	0.4088
6	6.55	**Sulfate**	BMB	7.081	26.238	240.1489
TOTAL:				8.48	36.26	276.42



Peak Integration Report

Sample Name:	**L2430219-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 21:53**	*Run Time:*	**10.00**

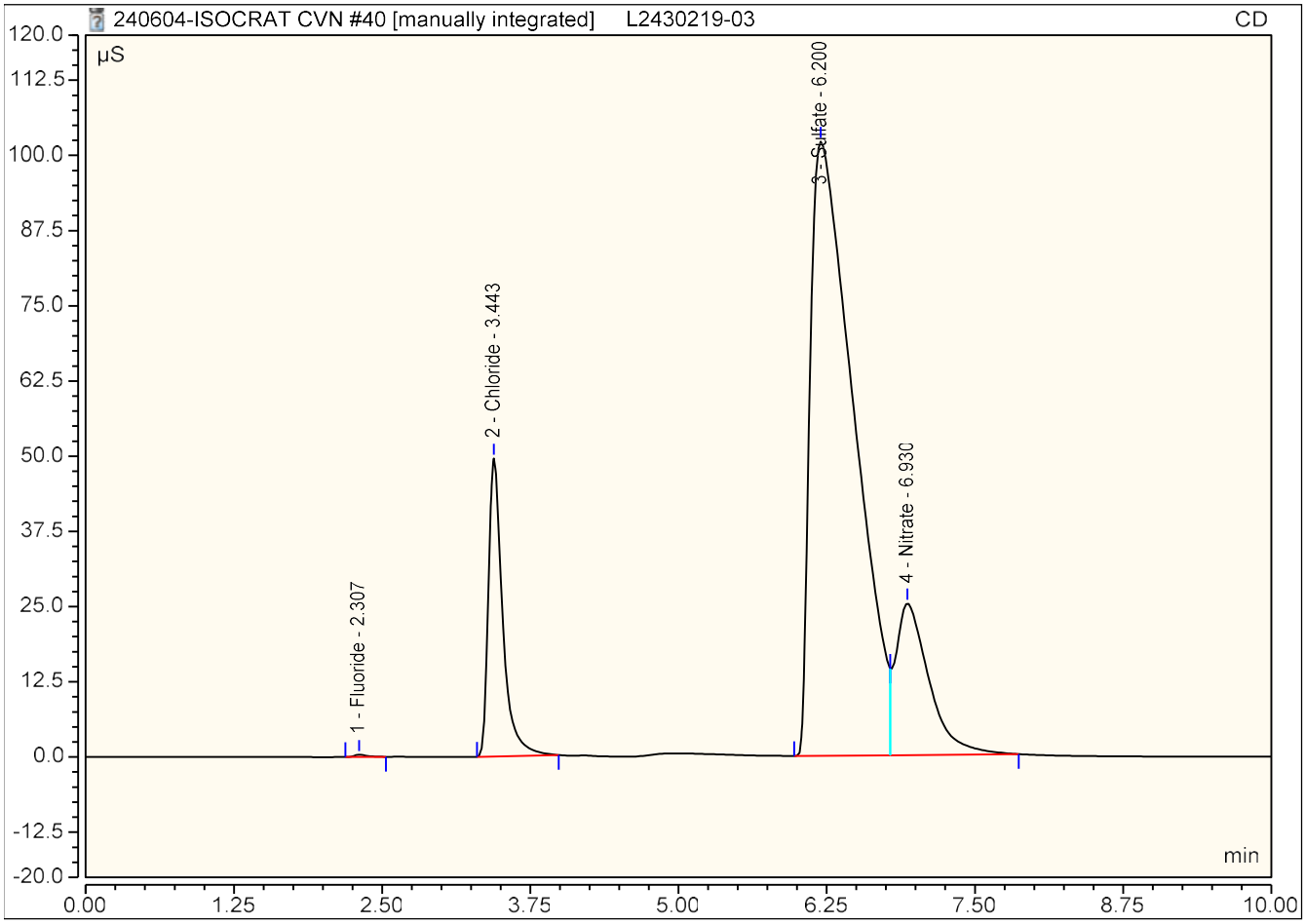
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.31	**Fluoride**	BMB	0.028	0.238	0.1070
2	3.45	**Chloride**	BMB*	3.205	23.379	7.7650
3	6.45	**Sulfate**	BM *	12.881	42.083	43.3030
4	7.03	**Nitrate**	MB*	1.918	6.884	1.5700
TOTAL:				18.03	72.58	52.74



Peak Integration Report

Sample Name:	**L2430219-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 22:05**	*Run Time:*	**10.00**

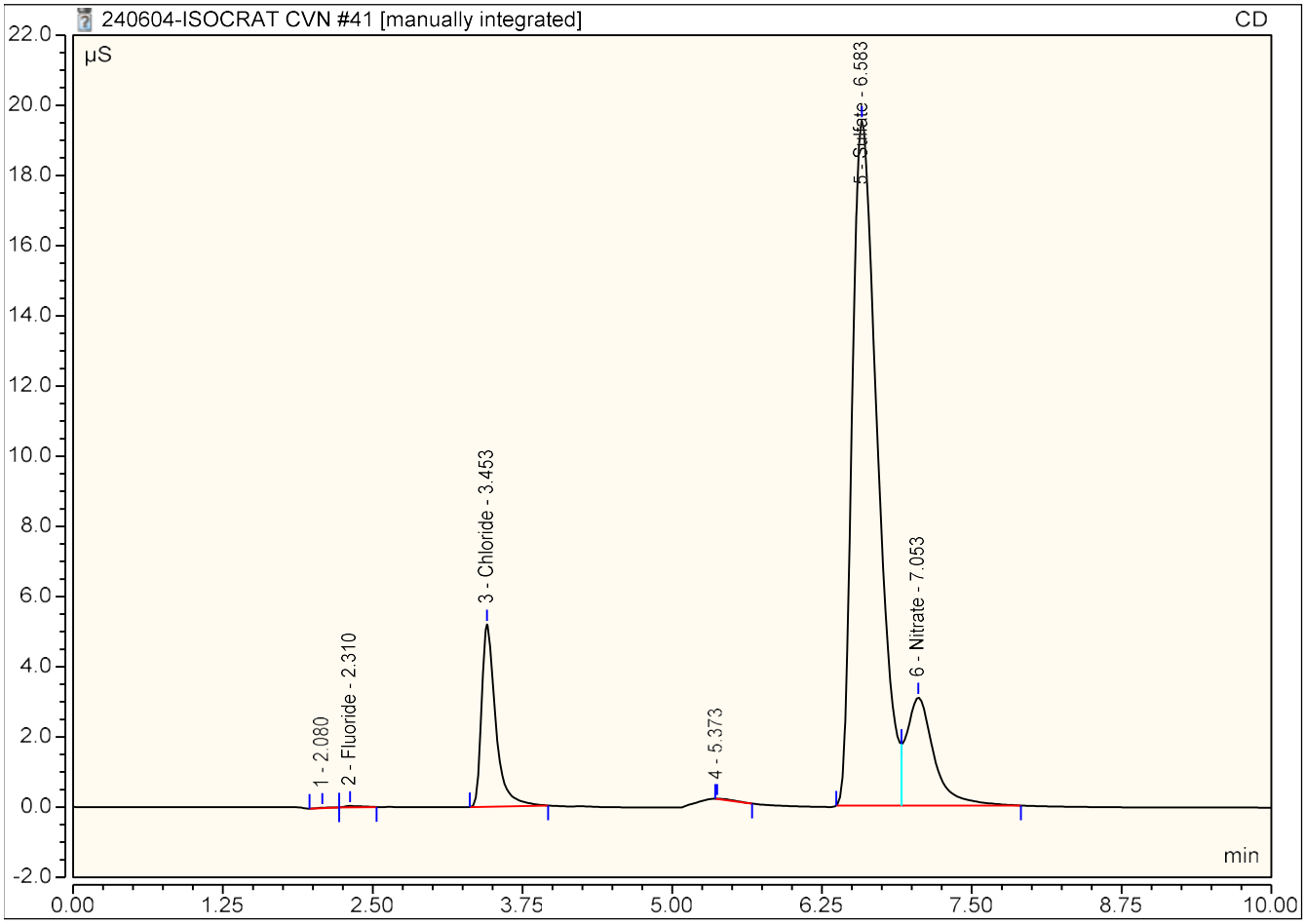
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.31	**Fluoride**	BMB	0.046	0.390	0.1343
2	3.44	**Chloride**	BMB*	6.898	49.516	16.4355
3	6.20	**Sulfate**	BM *	43.415	102.128	144.8475
4	6.93	**Nitrate**	MB*	8.246	25.236	6.7750
TOTAL:				58.61	177.27	168.19



Peak Integration Report

Sample Name:	**L2430219-03; 10X SO4**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 22:17**	*Run Time:*	**10.00**

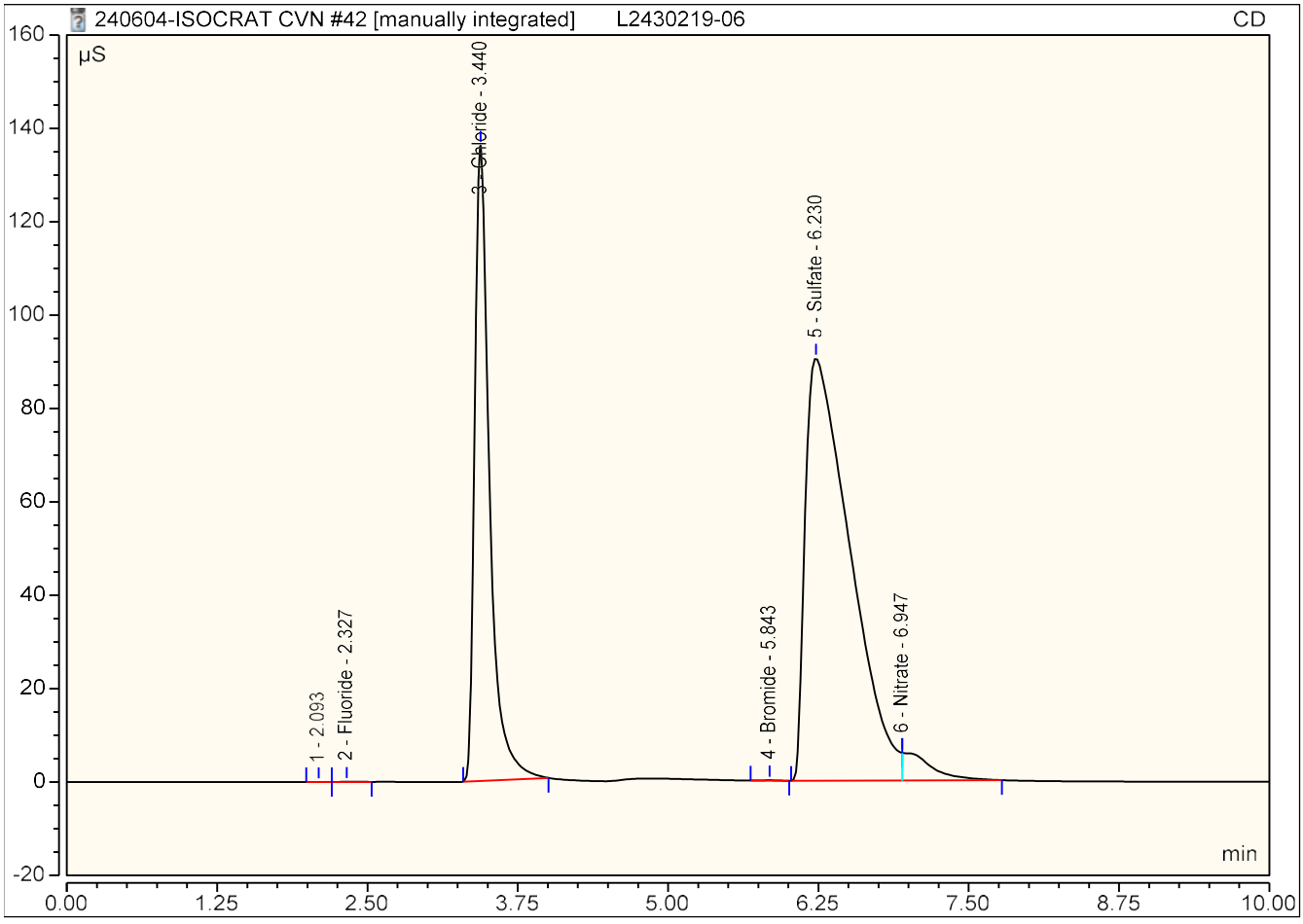
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.006	0.039	0.7295
3	3.45	**Chloride**	BMB*	0.705	5.196	18.9867
5	6.58	**Sulfate**	BM *	4.757	19.508	162.8583
6	7.05	**Nitrate**	MB*	0.820	3.077	6.6767
TOTAL:				6.29	27.82	189.25



Peak Integration Report

Sample Name:	**L2430219-06**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 22:29**	*Run Time:*	**10.00**

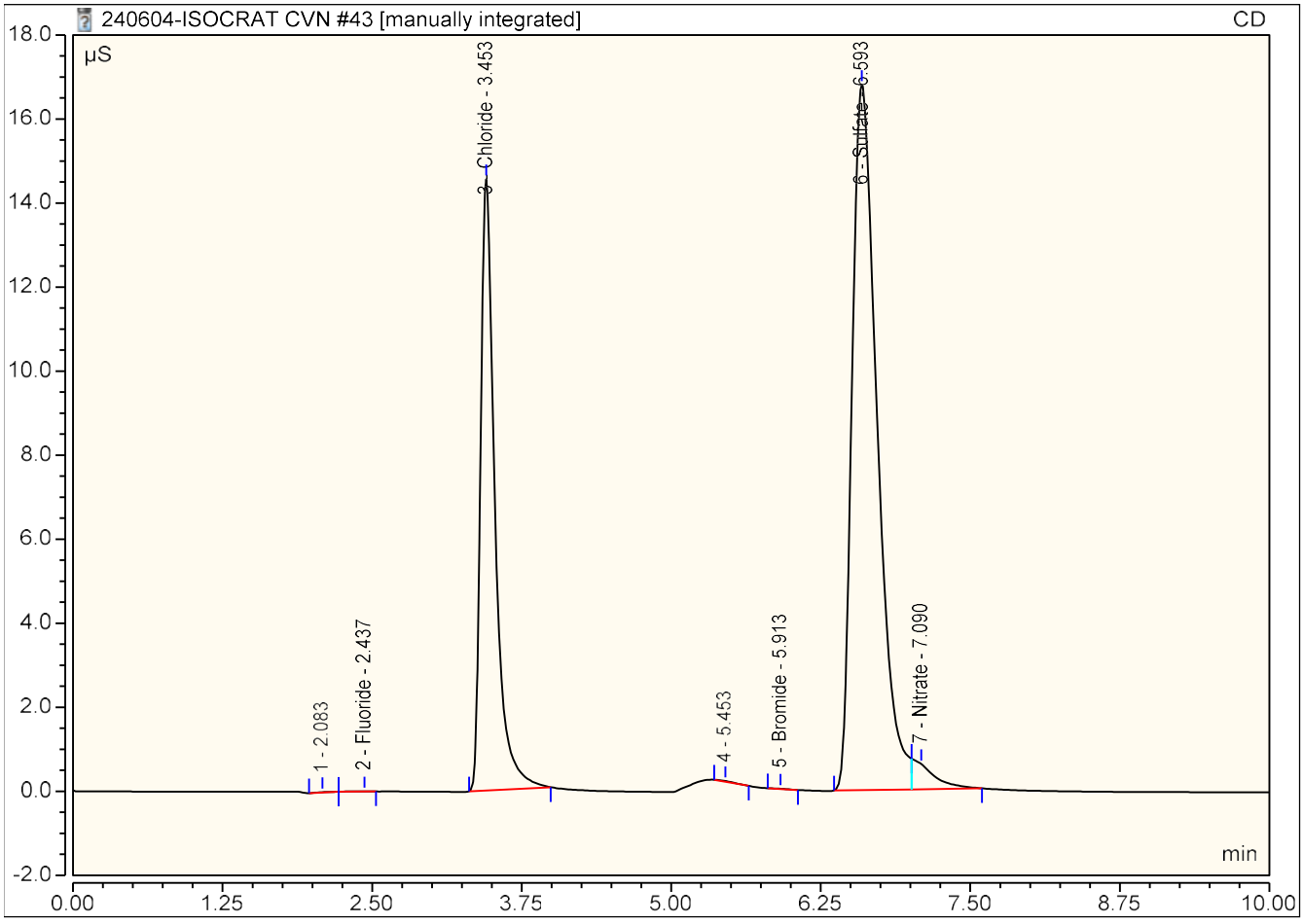
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.010	0.063	0.0788
3	3.44	**Chloride**	BMB*	19.453	136.057	45.9056
4	5.84	**Bromide**	BMB	0.016	0.102	0.1594
5	6.23	**Sulfate**	BM *	38.997	90.475	130.1560
6	6.95	**Nitrate**	MB*	1.658	5.898	1.3569
TOTAL:				60.13	232.60	177.66



Peak Integration Report

Sample Name:	**L2430219-06; 10X SO4**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 22:41**	*Run Time:*	**10.00**

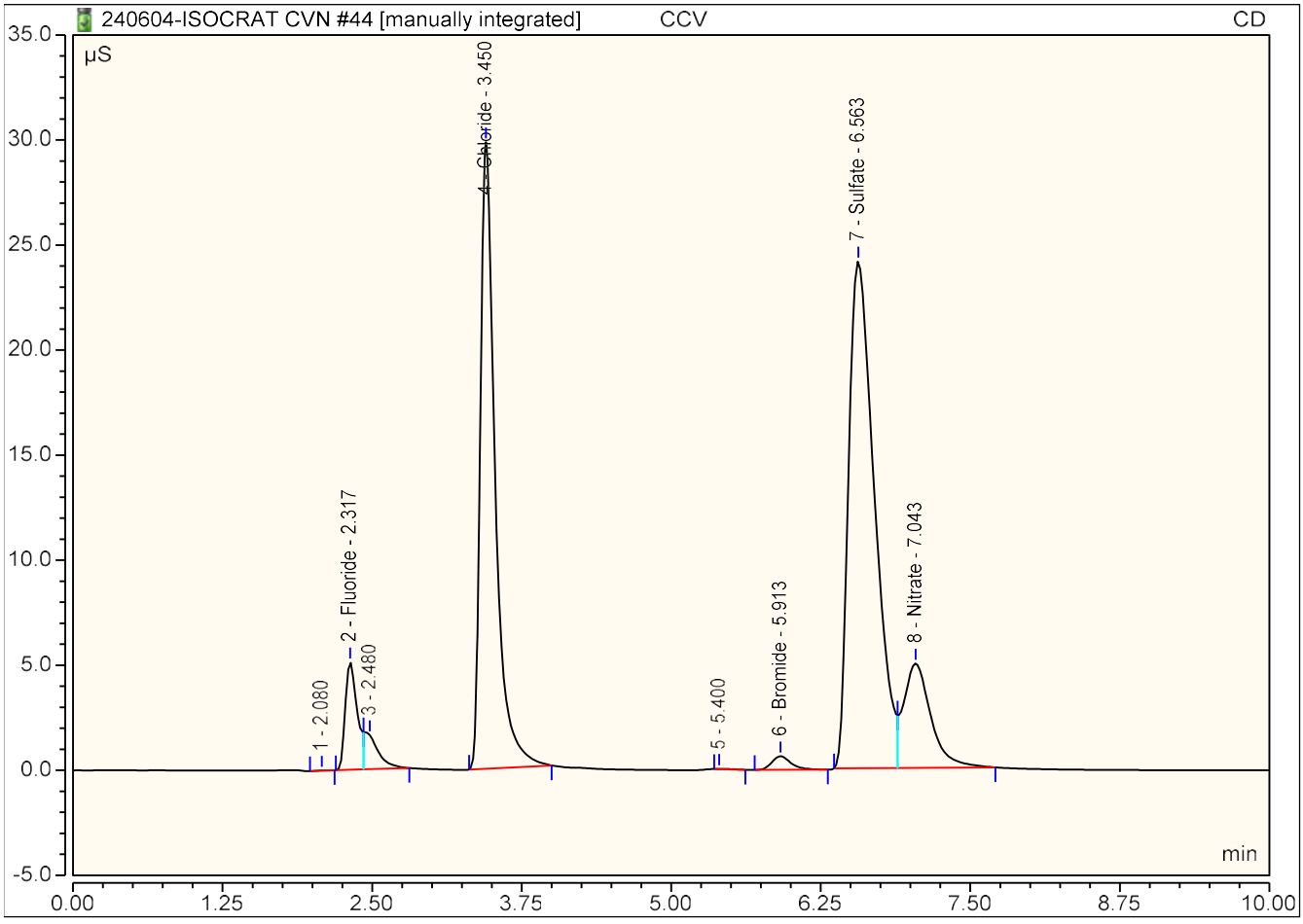
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.44	**Fluoride**	BMB	0.001	0.007	0.6603
3	3.45	**Chloride**	BMB*	2.018	14.553	49.7979
5	5.91	**Bromide**	BMB	0.001	0.006	0.4118
6	6.59	**Sulfate**	BM *	4.100	16.784	141.0030
7	7.09	**Nitrate**	MB*	0.142	0.599	1.0959
TOTAL:				6.26	31.95	192.97



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 22:53**	*Run Time:*	**10.00**

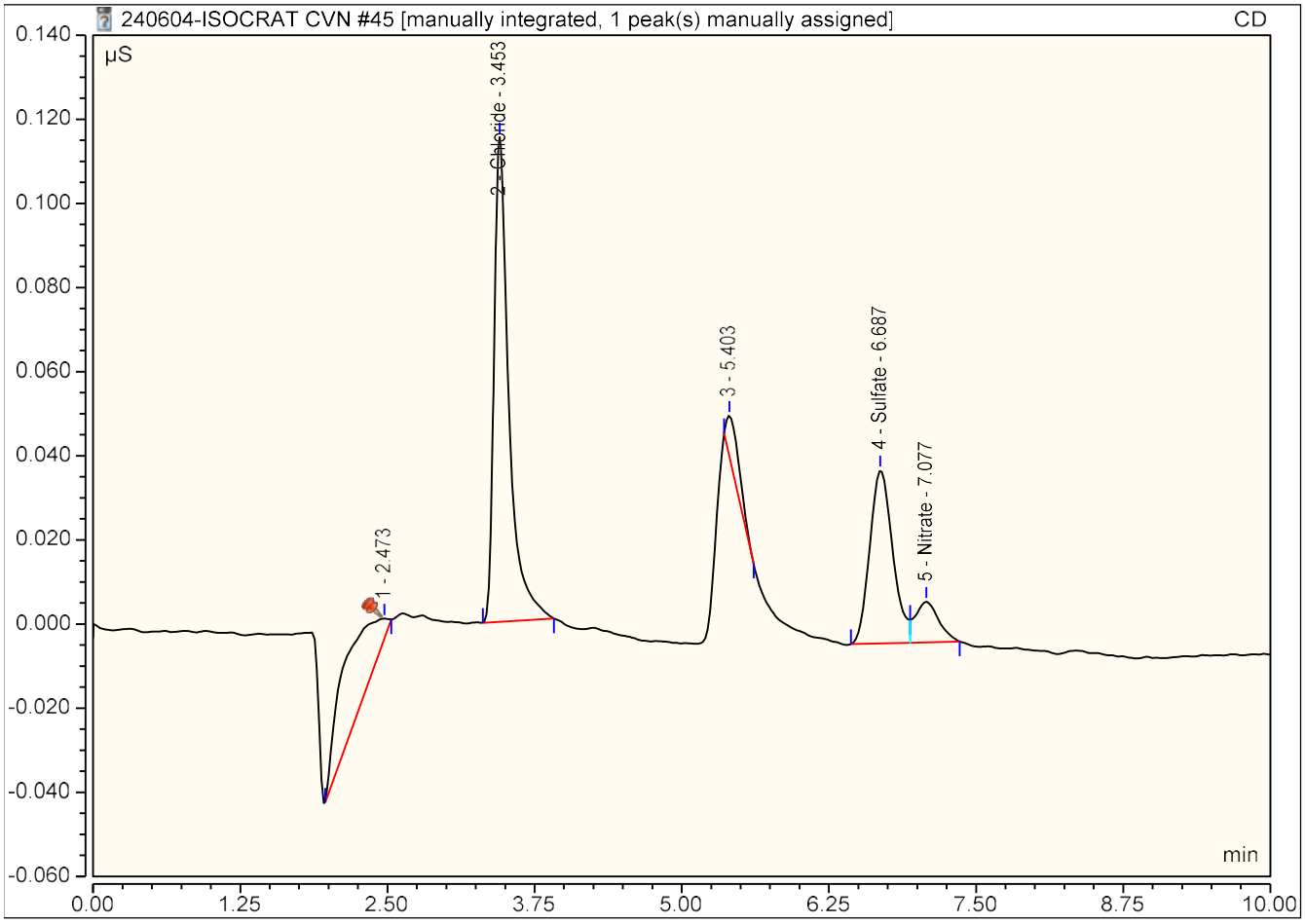
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BM *	0.586	5.116	0.9575
4	3.45	**Chloride**	BMB*	4.258	29.819	10.2371
6	5.91	**Bromide**	BMB	0.121	0.650	0.9740
7	6.56	**Sulfate**	BM *	6.044	24.123	20.5680
8	7.04	**Nitrate**	MB*	1.310	4.976	1.0706
TOTAL:				12.32	64.68	33.81



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 23:05**	*Run Time:*	**10.00**

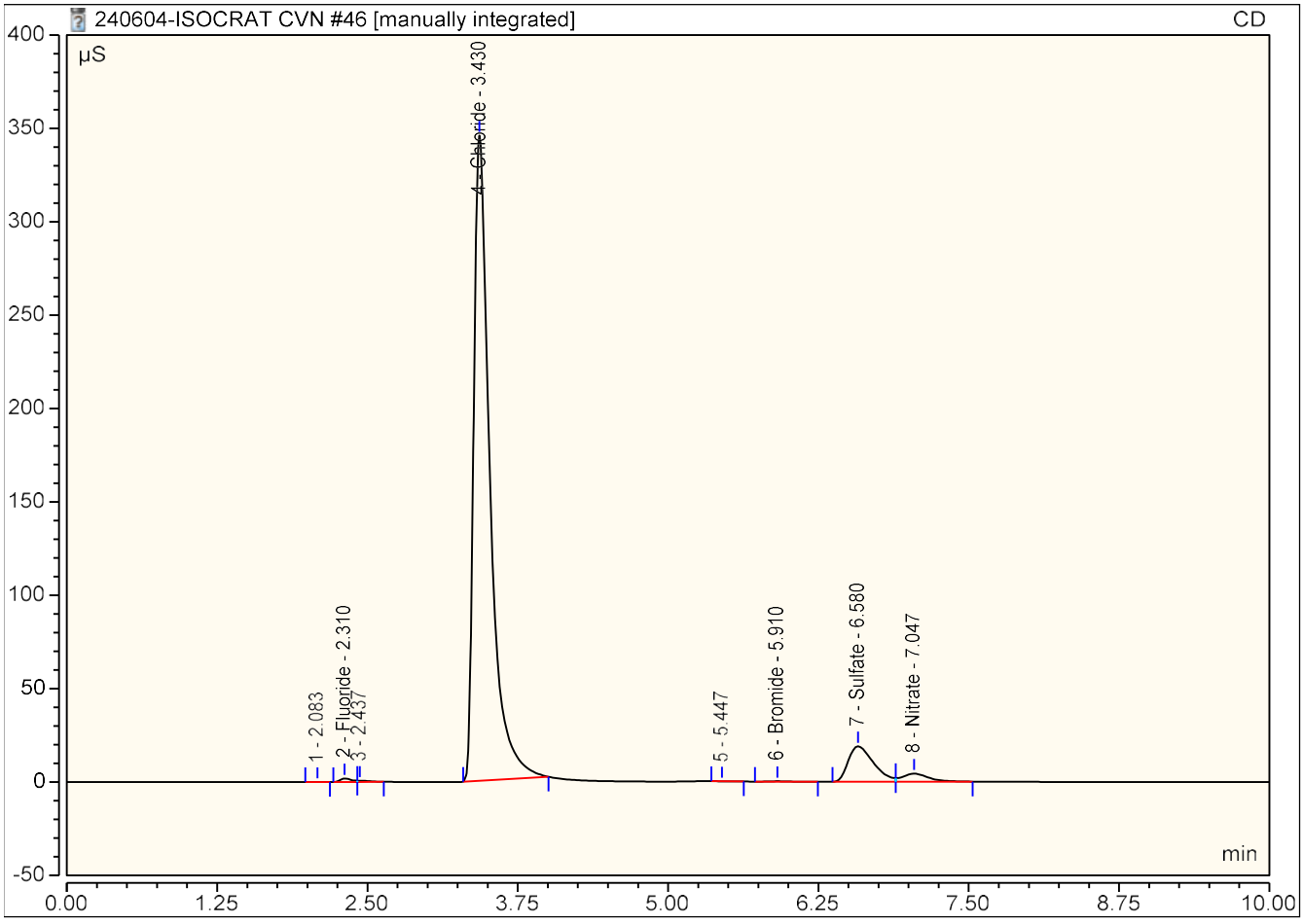
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.45	**Chloride**	BMB*	0.017	0.115	0.2824
4	6.69	**Sulfate**	BM *	0.009	0.041	0.4975
5	7.08	**Nitrate**	MB*	0.002	0.010	n.a.
TOTAL:				0.03	0.17	0.78



Peak Integration Report

Sample Name:	**L2430219-04 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 23:17**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BM *	0.205	1.865	0.3757
4	3.43	**Chloride**	BMB*	53.742	345.438	126.3900
6	5.91	**Bromide**	BMB	0.043	0.241	0.3686
7	6.58	**Sulfate**	BM *	4.587	18.913	15.7197
8	7.05	**Nitrate**	MB*	1.065	4.280	0.8690
TOTAL:				59.64	370.74	143.72



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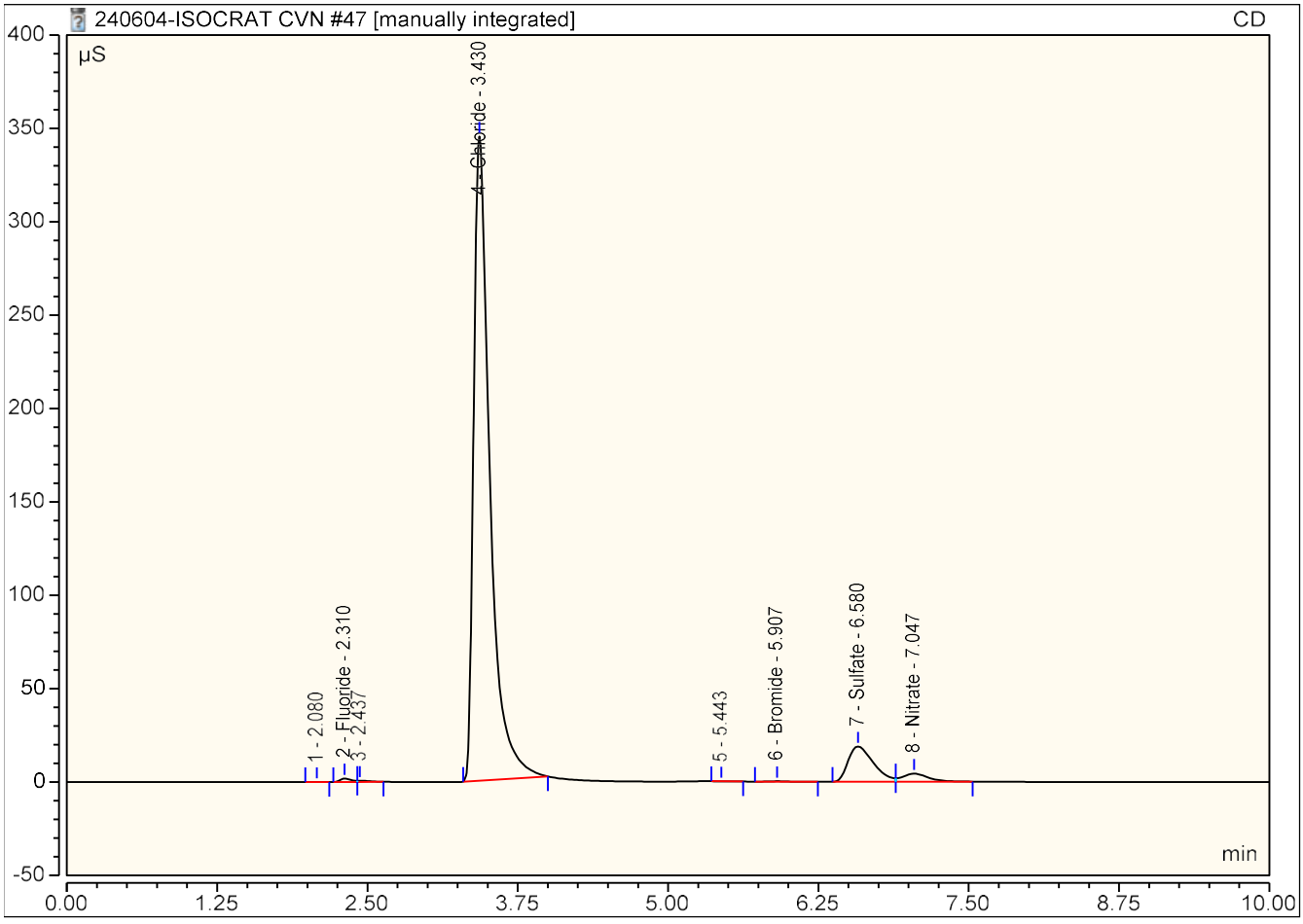
Peak Integration Report

Sample Name:	**L2430219-04 MSD**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 23:29**	*Run Time:*	**10.00**

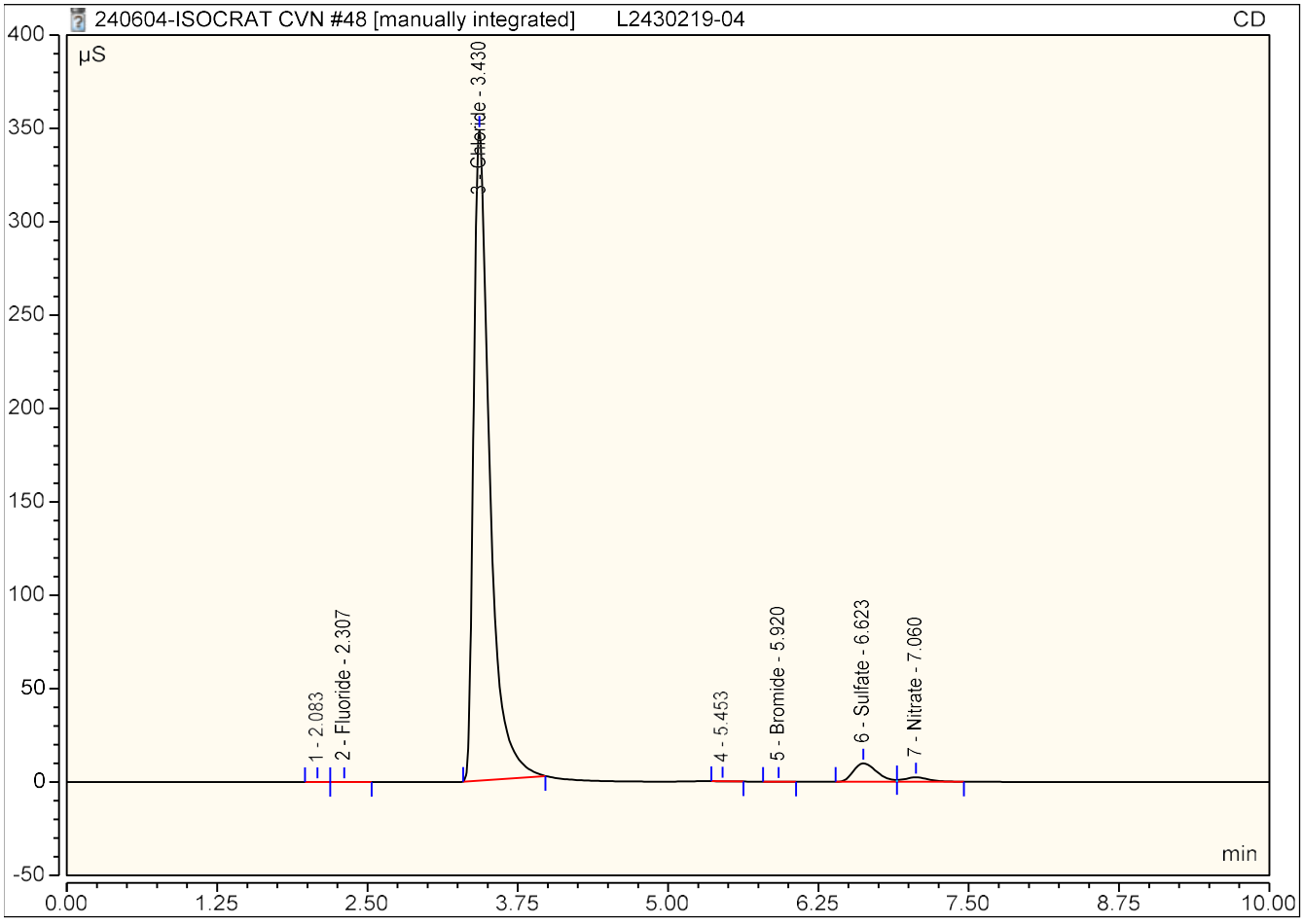
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BM *	0.205	1.866	0.3762
4	3.43	**Chloride**	BMB*	53.627	344.891	126.1205
6	5.91	**Bromide**	BMB	0.043	0.242	0.3700
7	6.58	**Sulfate**	BM *	4.581	18.887	15.7020
8	7.05	**Nitrate**	MB*	1.062	4.268	0.8661
TOTAL:				59.52	370.15	143.43



Peak Integration Report

Sample Name:	**L2430219-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 23:42**	*Run Time:*	**10.00**

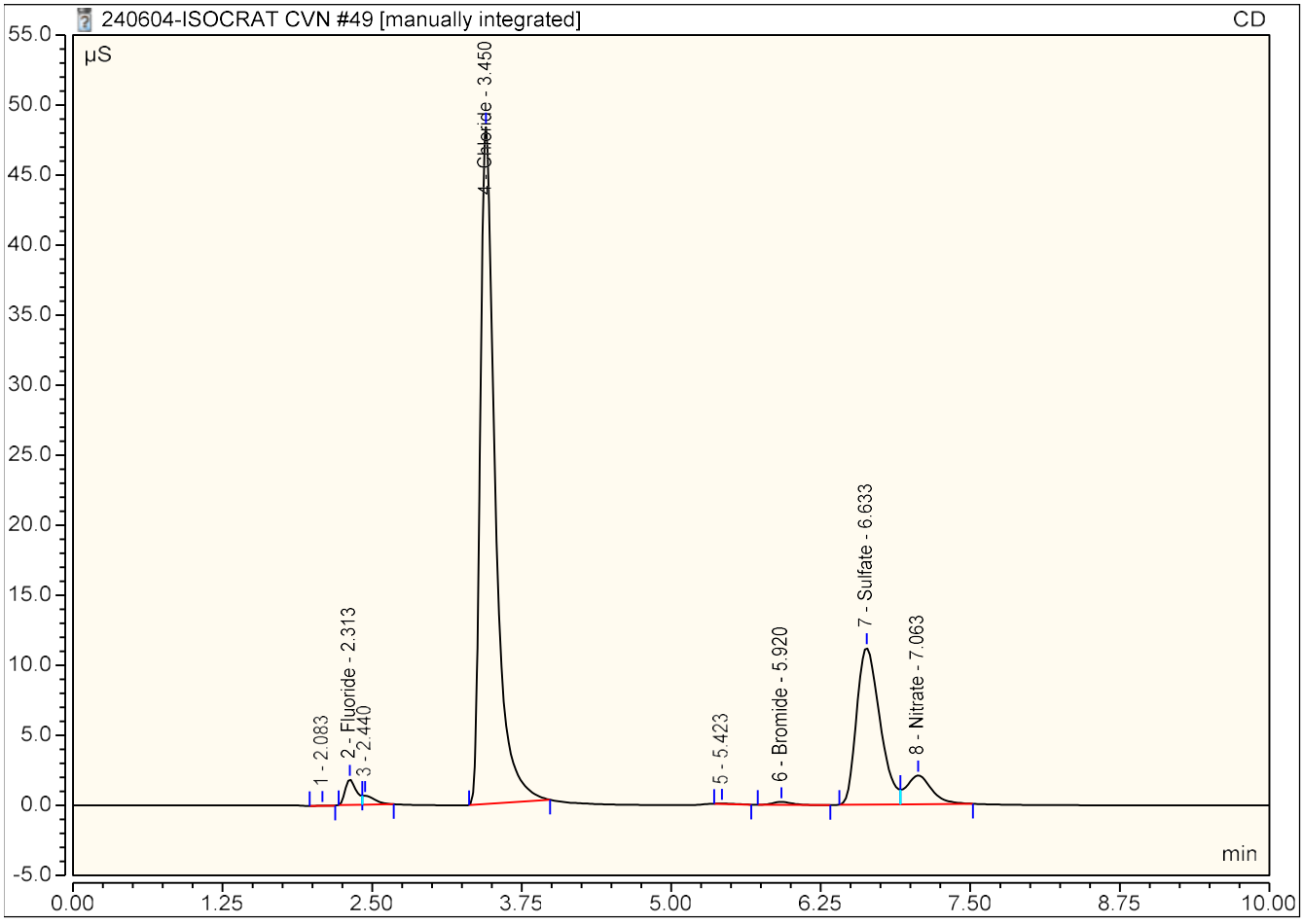
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.009	0.072	0.0779
3	3.43	**Chloride**	BMB*	54.014	347.951	127.0301
5	5.92	**Bromide**	BMB	0.001	0.011	0.0471
6	6.62	**Sulfate**	BM *	2.237	9.895	7.9059
7	7.06	**Nitrate**	MB*	0.552	2.337	0.4466
TOTAL:				56.81	360.27	135.51



Peak Integration Report

Sample Name:	**L2430219-04 MS; 10X CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**04-Jun-2024 / 23:54**	*Run Time:*	**10.00**

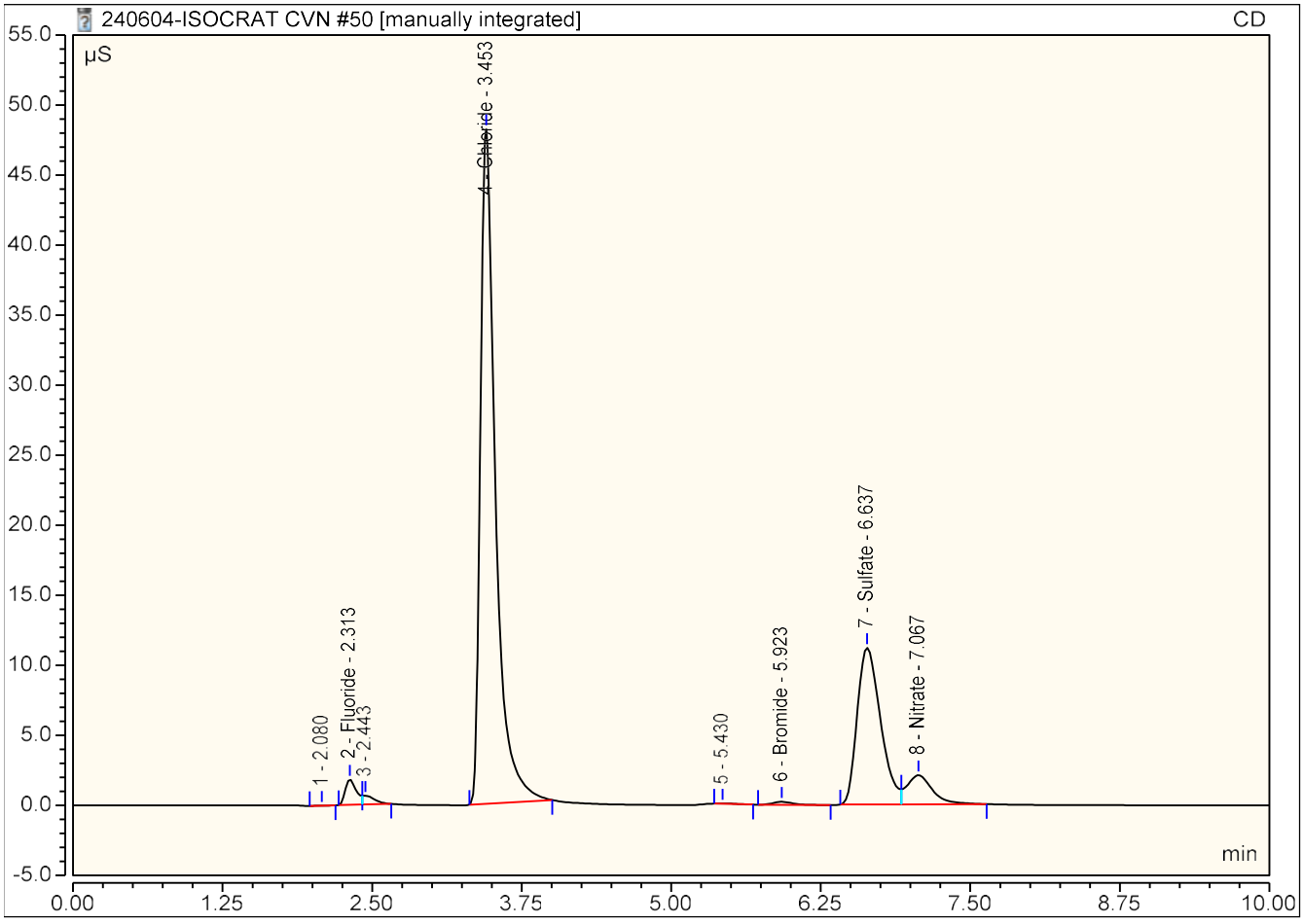
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BM *	0.196	1.810	3.6237
4	3.45	**Chloride**	BMB*	7.011	48.310	166.9921
6	5.92	**Bromide**	BMB	0.041	0.220	3.5347
7	6.63	**Sulfate**	BM *	2.528	11.185	88.7444
8	7.06	**Nitrate**	MB*	0.501	2.057	4.0544
TOTAL:				10.28	63.58	266.95



Peak Integration Report

Sample Name:	**L2430219-04 MSD; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Jun-2024 / 00:06**	*Run Time:*	**10.00**

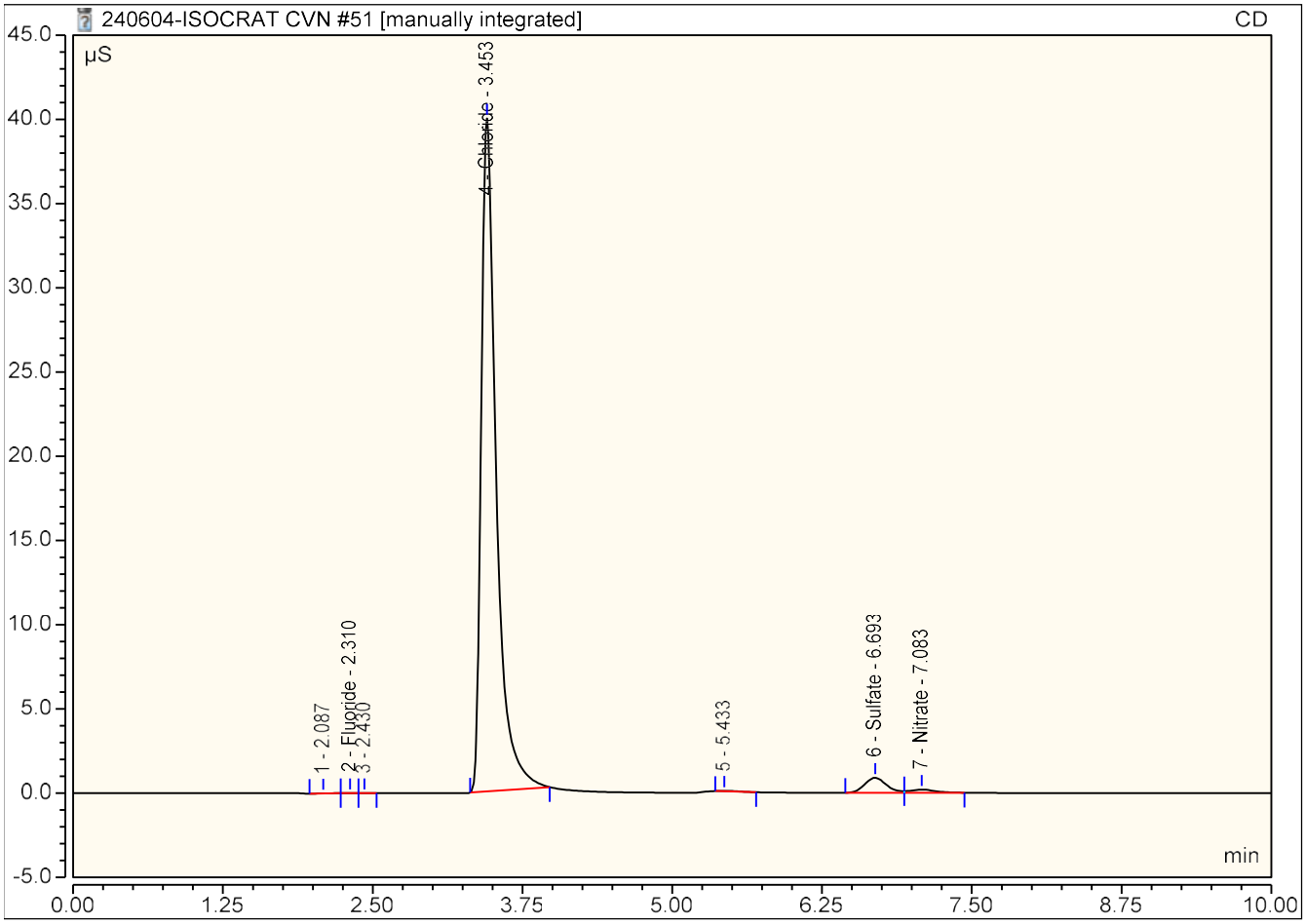
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BM *	0.194	1.804	3.5971
4	3.45	**Chloride**	BMB*	7.018	48.178	167.1633
6	5.92	**Bromide**	BMB	0.041	0.221	3.5549
7	6.64	**Sulfate**	BM *	2.529	11.176	88.7650
8	7.07	**Nitrate**	MB*	0.517	2.081	4.1810
TOTAL:				10.30	63.46	267.26



Peak Integration Report

Sample Name:	**L2430219-04; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Jun-2024 / 00:18**	*Run Time:*	**10.00**

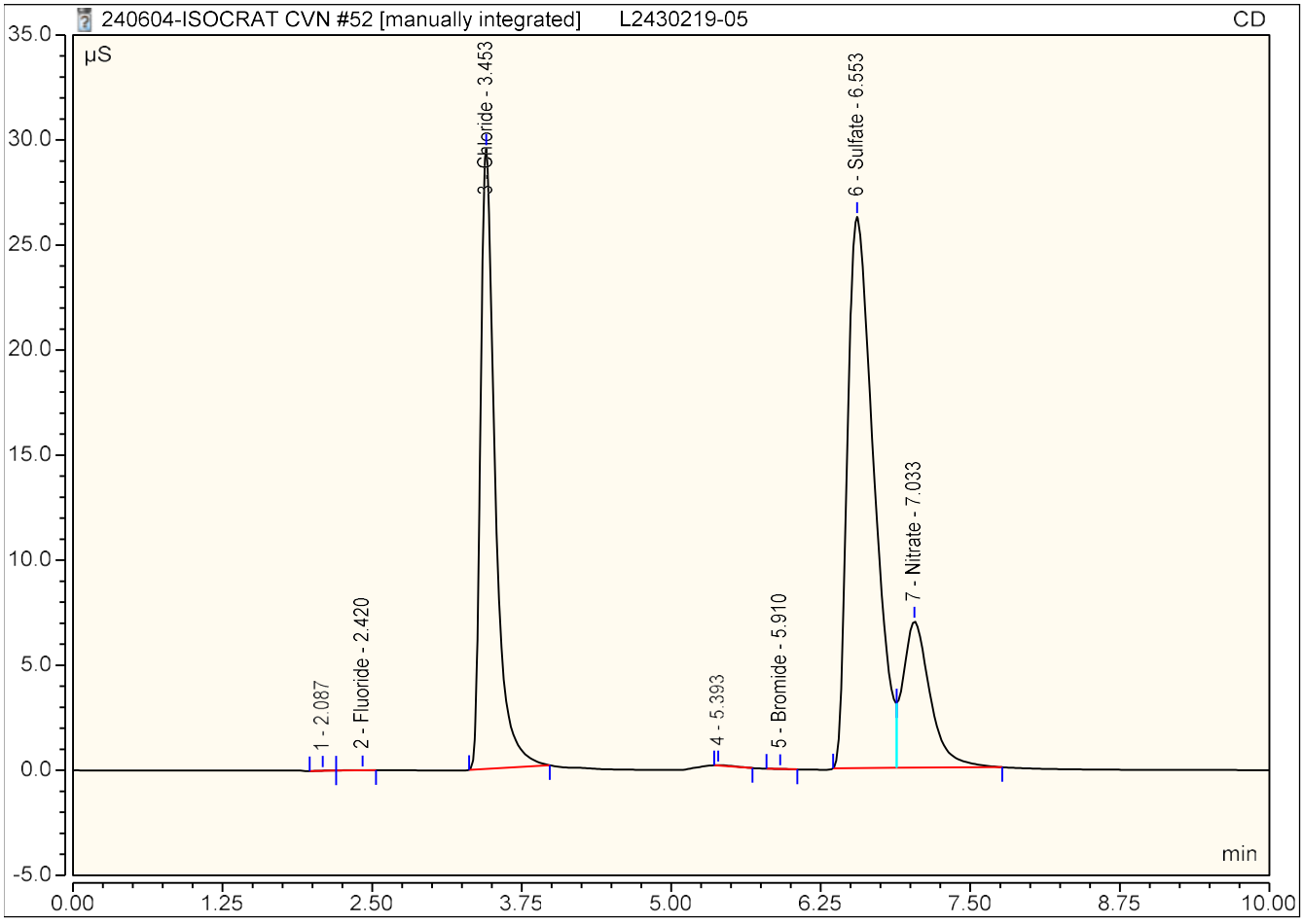
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.000	0.005	0.6438
4	3.45	**Chloride**	BMB*	5.776	39.947	138.0009
6	6.69	**Sulfate**	BM *	0.189	0.891	10.9387
7	7.08	**Nitrate**	MB*	0.045	0.189	0.2990
TOTAL:				6.01	41.03	149.88



Peak Integration Report

Sample Name:	**L2430219-05**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Jun-2024 / 00:30**	*Run Time:*	**10.00**

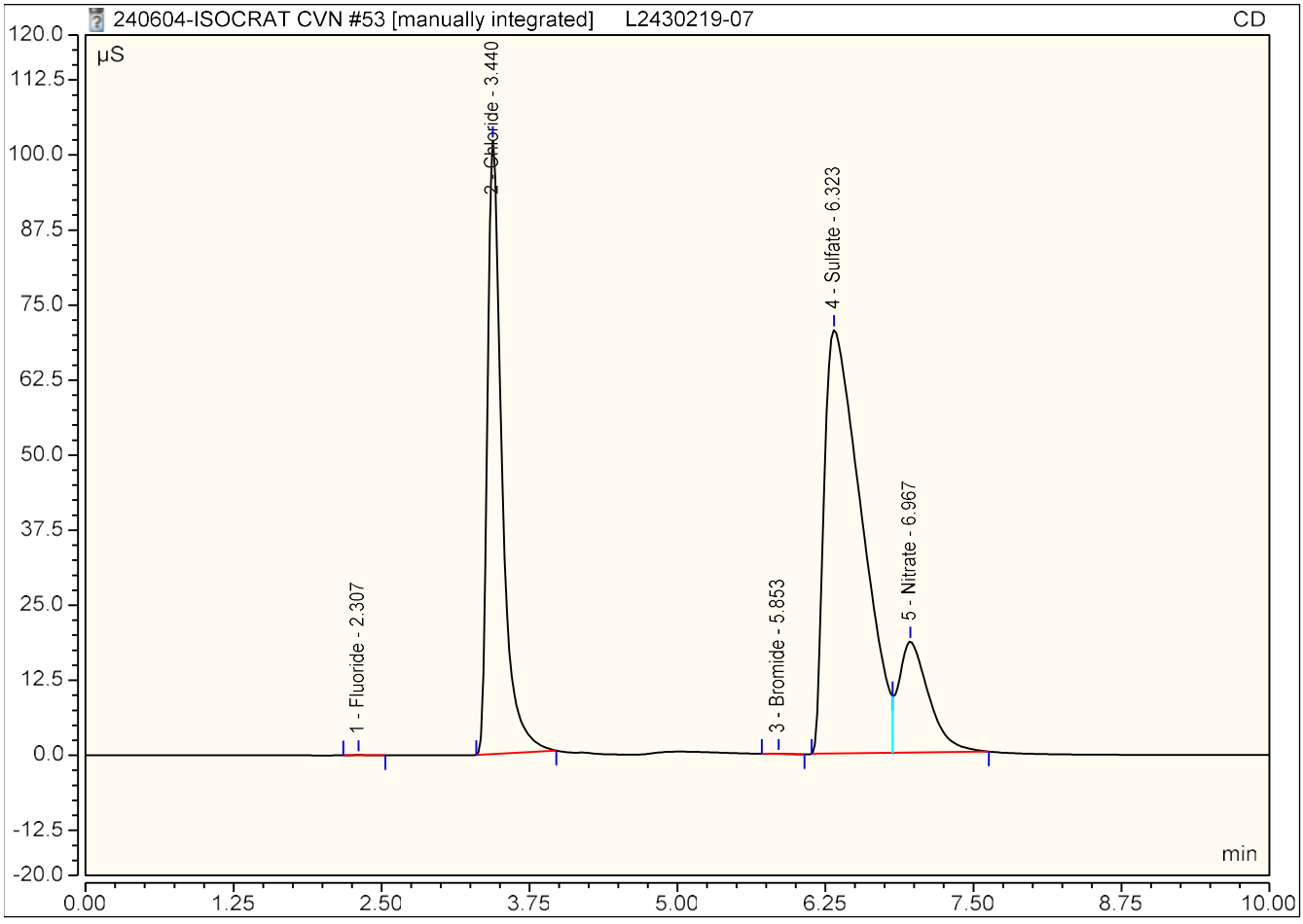
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.42	**Fluoride**	BMB	0.003	0.013	0.0680
3	3.45	**Chloride**	BMB*	4.194	29.518	10.0867
5	5.91	**Bromide**	BMB	0.001	0.006	0.0417
6	6.55	**Sulfate**	BM *	6.708	26.238	22.7765
7	7.03	**Nitrate**	MB*	1.846	6.966	1.5113
TOTAL:				12.75	62.74	34.48



Peak Integration Report

Sample Name:	**L2430219-07**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Jun-2024 / 00:42**	*Run Time:*	**10.00**

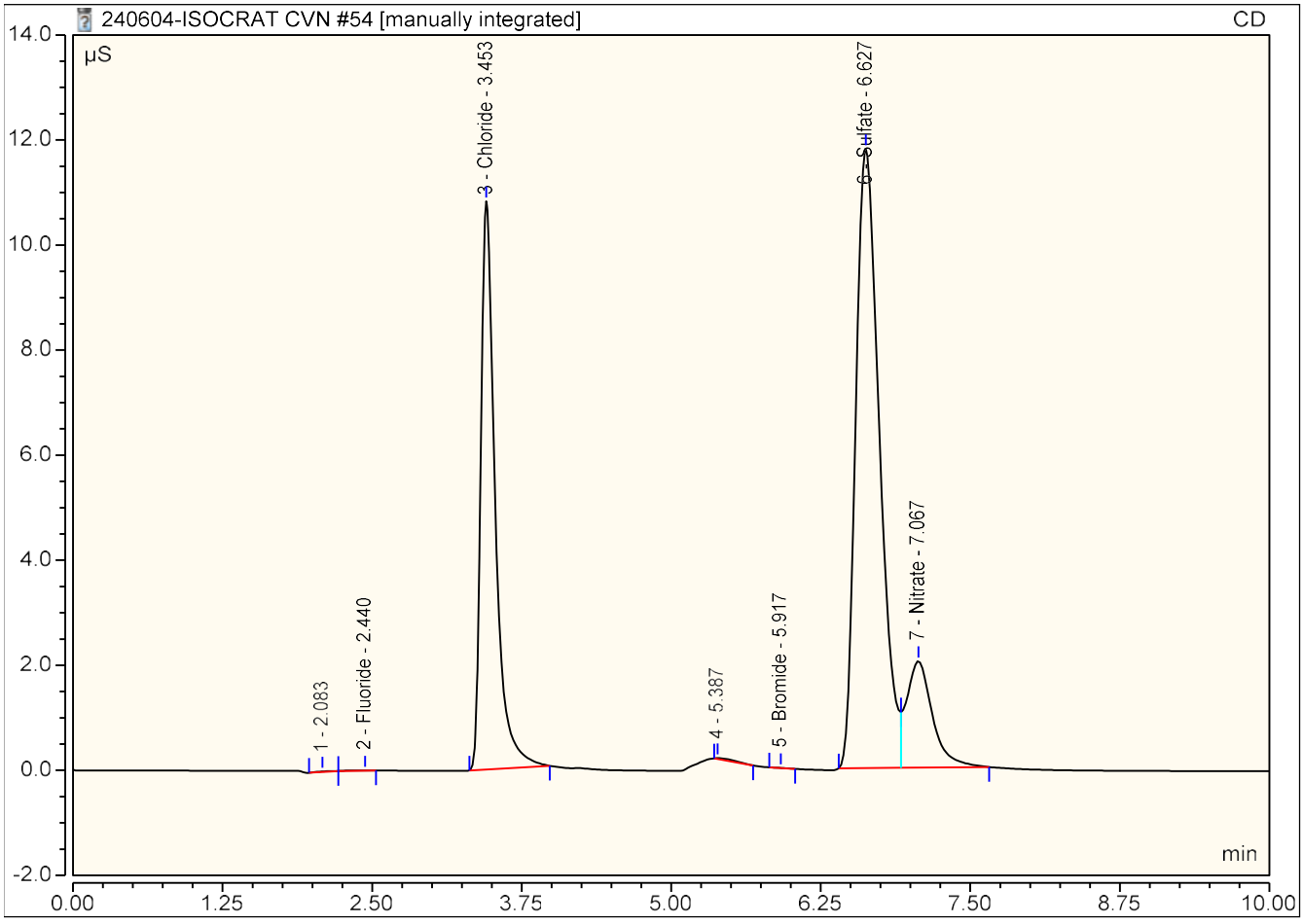
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.31	**Fluoride**	BMB	0.007	0.055	0.0749
2	3.44	**Chloride**	BMB*	14.640	102.113	34.6067
3	5.85	**Bromide**	BMB	0.010	0.061	0.1145
4	6.32	**Sulfate**	BM *	25.837	70.557	86.3920
5	6.97	**Nitrate**	MB*	5.497	18.500	4.5142
TOTAL:				45.99	191.29	125.70



Peak Integration Report

Sample Name:	**XL2430219-07; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Jun-2024 / 00:54**	*Run Time:*	**10.00**

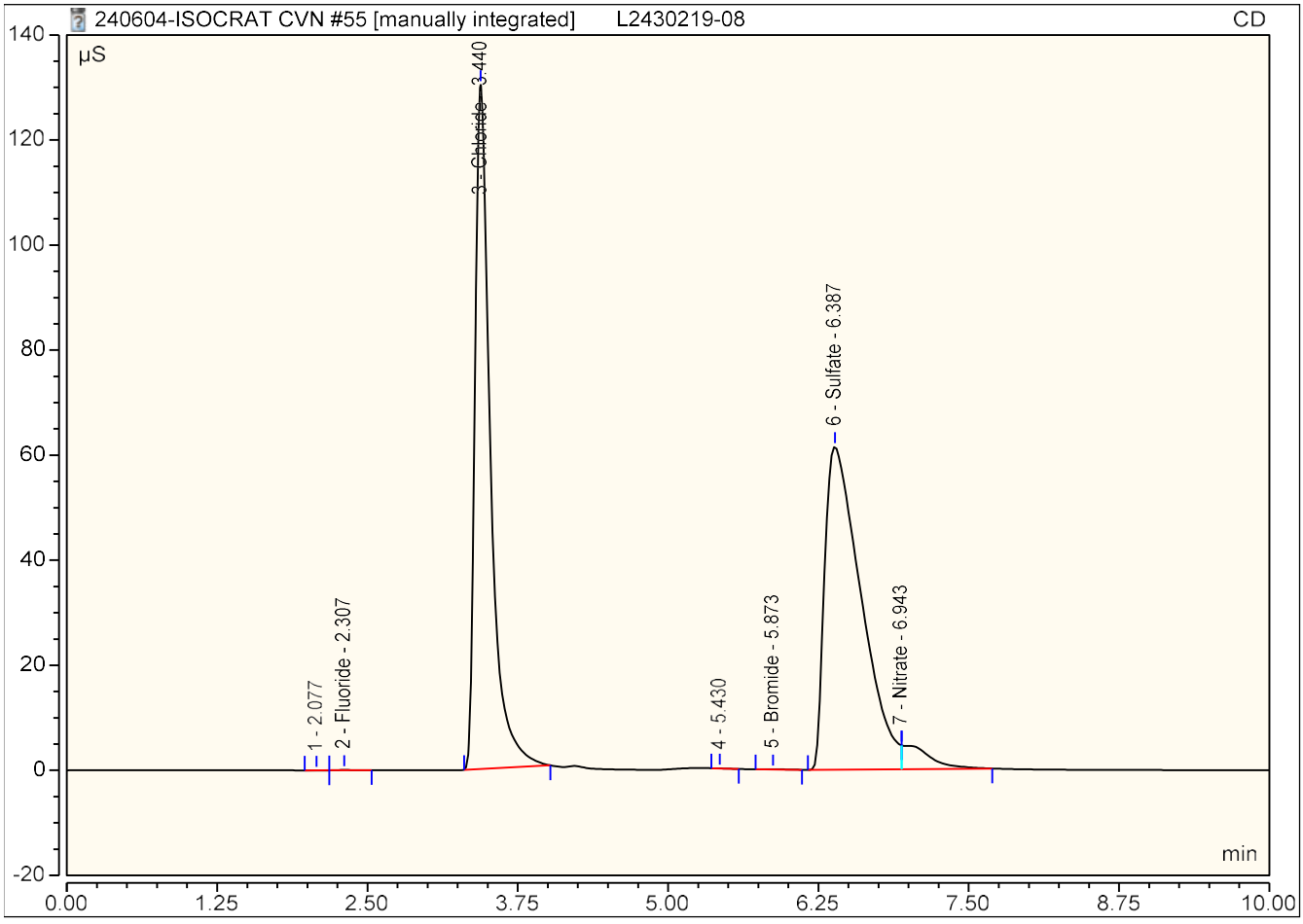
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.44	**Fluoride**	BMB	0.001	0.006	0.6574
3	3.45	**Chloride**	BMB*	1.500	10.819	37.6360
5	5.92	**Bromide**	BMB	0.000	0.003	0.3795
6	6.63	**Sulfate**	BM *	2.701	11.787	94.4769
7	7.07	**Nitrate**	MB*	0.510	2.028	4.1208
TOTAL:				4.71	24.64	137.27



Peak Integration Report

Sample Name:	**L2430219-08**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Jun-2024 / 01:06**	*Run Time:*	**10.00**

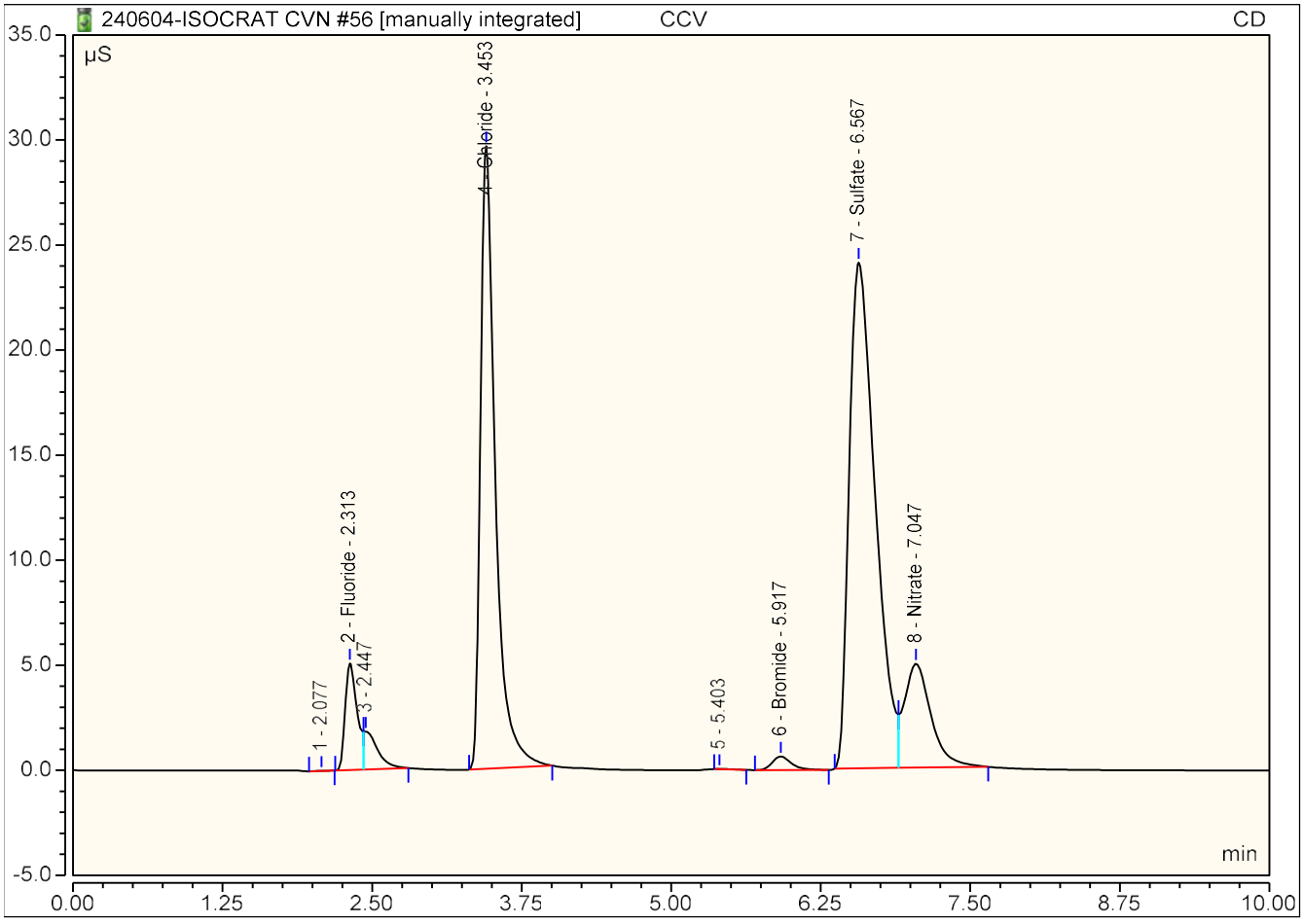
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.009	0.068	0.0771
3	3.44	**Chloride**	BMB*	19.307	130.255	45.5625
5	5.87	**Bromide**	BMB	0.010	0.062	0.1149
6	6.39	**Sulfate**	BM *	21.504	61.472	71.9793
7	6.94	**Nitrate**	MB*	1.213	4.529	0.9904
TOTAL:				42.04	196.39	118.72



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Jun-2024 / 01:18**	*Run Time:*	**10.00**

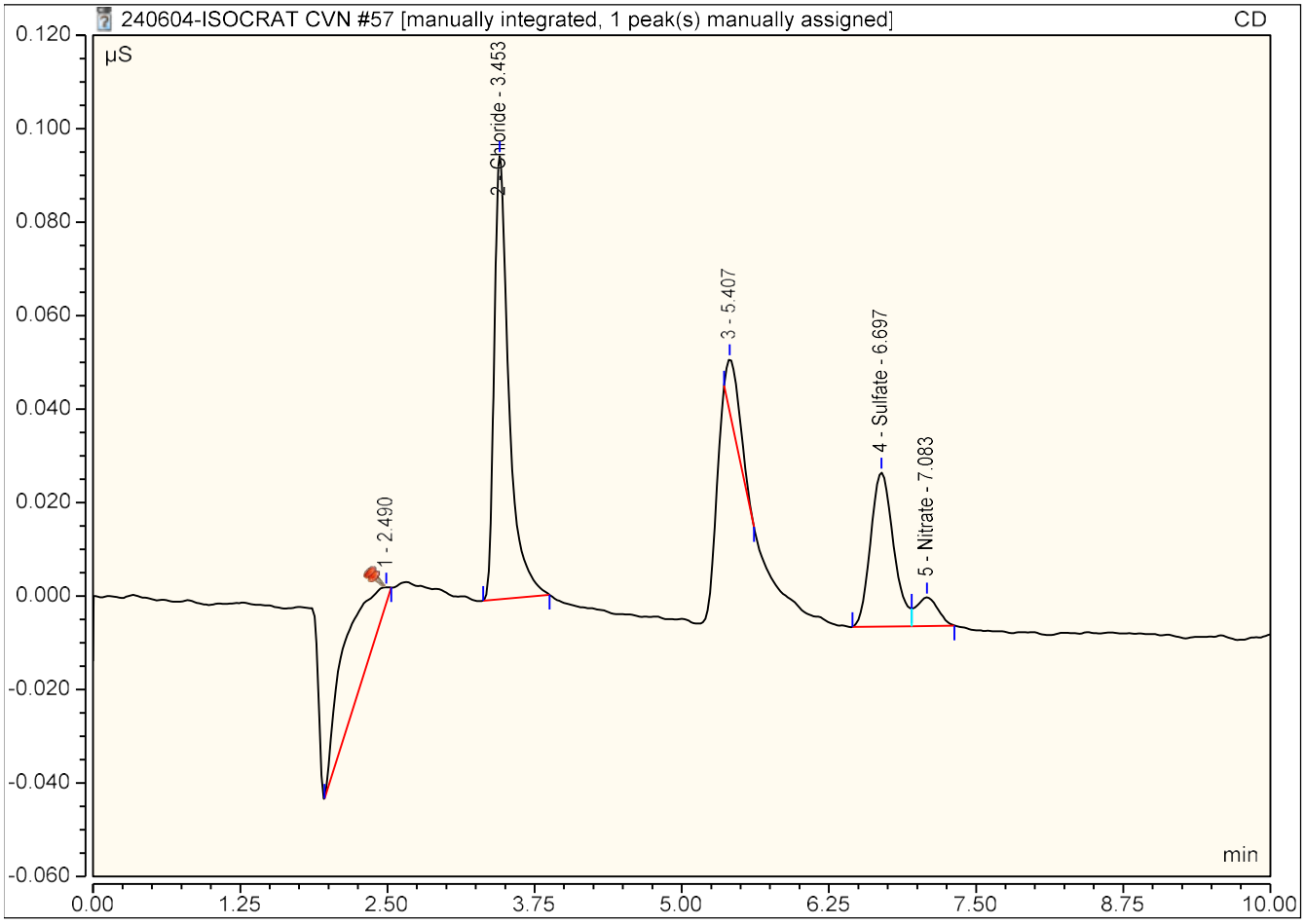
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BM *	0.586	5.078	0.9565
4	3.45	**Chloride**	BMB*	4.262	29.642	10.2462
6	5.92	**Bromide**	BMB	0.120	0.649	0.9732
7	6.57	**Sulfate**	BM *	6.041	24.066	20.5558
8	7.05	**Nitrate**	MB*	1.289	4.955	1.0527
TOTAL:				12.30	64.39	33.78



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Jun-2024 / 01:30**	*Run Time:*	**10.00**

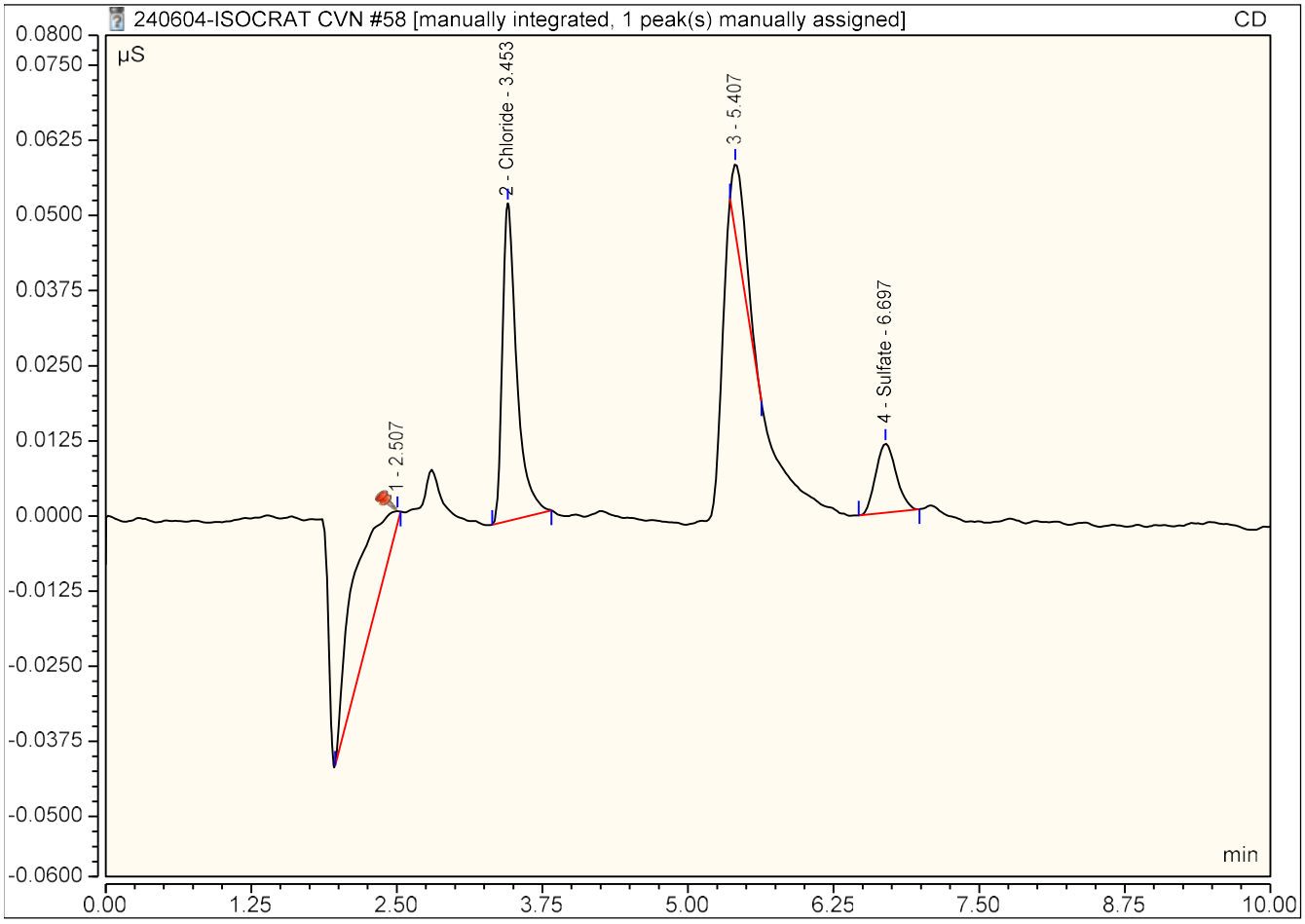
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.45	**Chloride**	BMB*	0.014	0.095	0.2752
4	6.70	**Sulfate**	BM *	0.007	0.033	0.4912
5	7.08	**Nitrate**	MB*	0.001	0.006	n.a.
TOTAL:				0.02	0.13	0.77



Peak Integration Report

Sample Name:	**BLK-2**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Jun-2024 / 01:42**	*Run Time:*	**10.00**

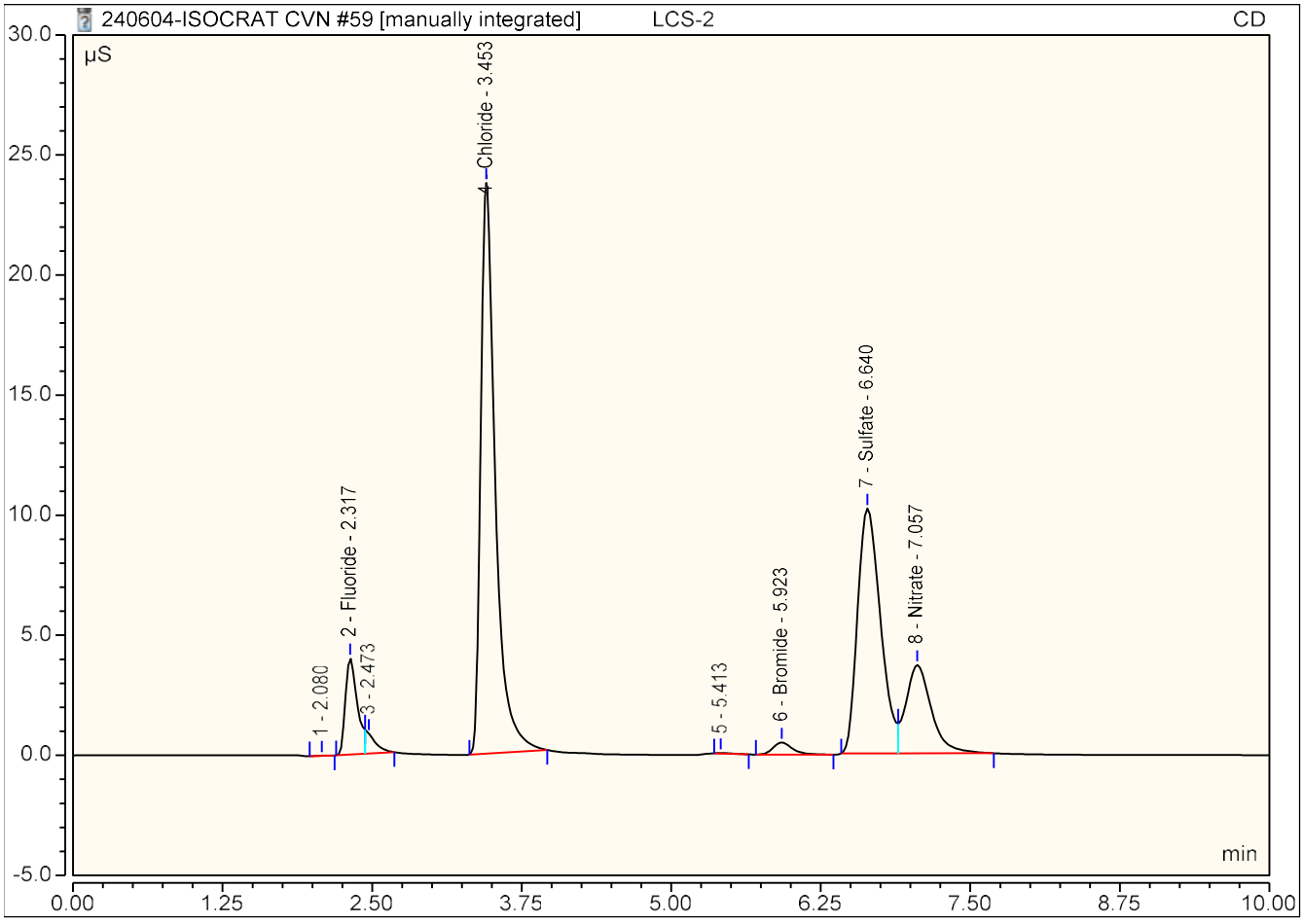
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.45	**Chloride**	BMB*	0.008	0.053	0.2607
4	6.70	**Sulfate**	BMB	0.002	0.011	0.4743
TOTAL:				0.01	0.06	0.73



Peak Integration Report

Sample Name:	**LCS-2**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Jun-2024 / 01:55**	*Run Time:*	**10.00**

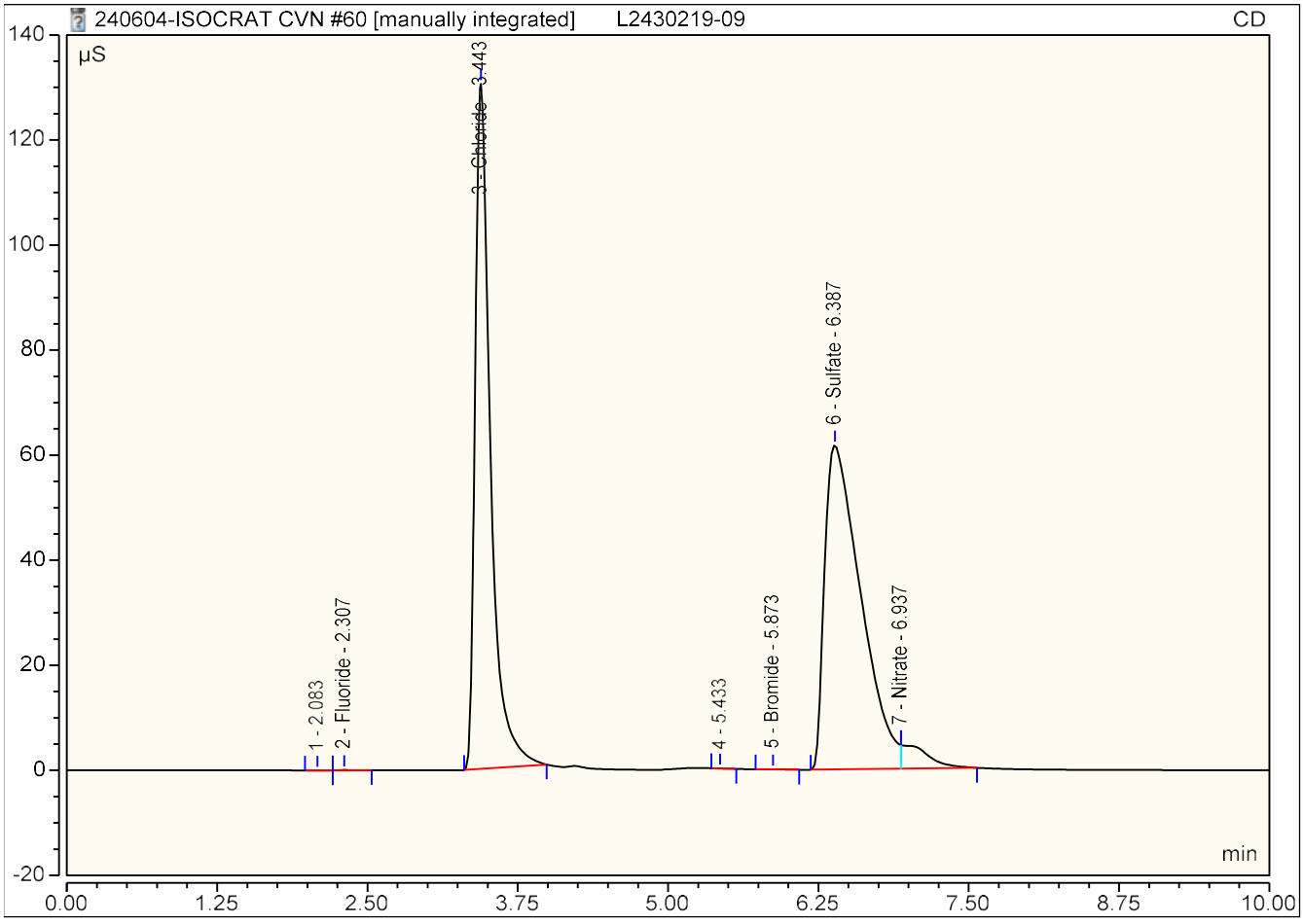
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BM *	0.458	4.009	0.7626
4	3.45	**Chloride**	BMB*	3.356	23.765	8.1214
6	5.92	**Bromide**	BMB	0.095	0.507	0.7751
7	6.64	**Sulfate**	BM *	2.262	10.198	7.9901
8	7.06	**Nitrate**	MB*	0.908	3.681	0.7397
TOTAL:				7.08	42.16	18.39



Peak Integration Report

Sample Name:	**L2430219-09**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Jun-2024 / 02:07**	*Run Time:*	**10.00**

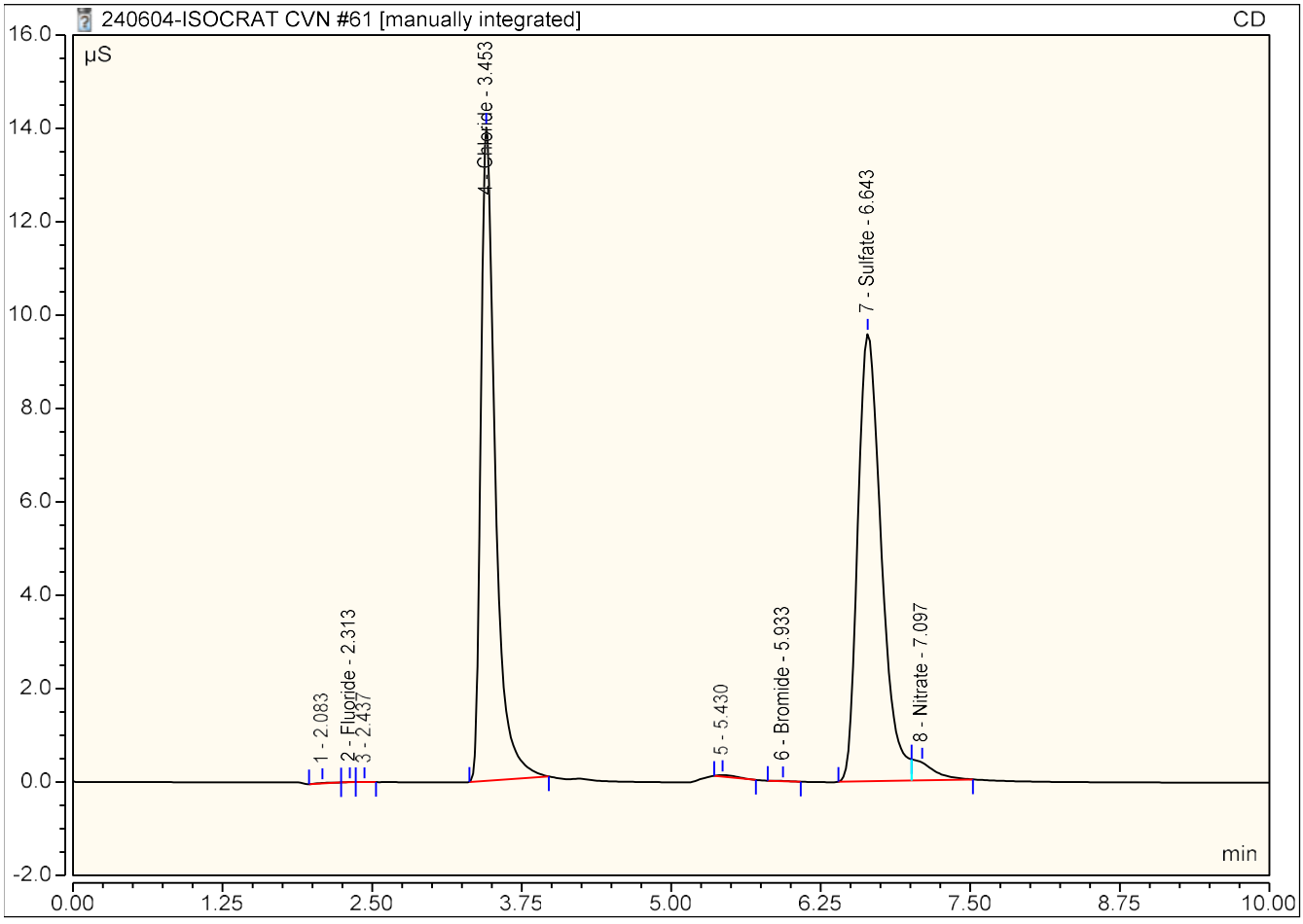
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.009	0.067	0.0778
3	3.44	**Chloride**	BMB*	19.230	130.389	45.3815
5	5.87	**Bromide**	BMB	0.010	0.064	0.1166
6	6.39	**Sulfate**	BM *	21.436	61.698	71.7564
7	6.94	**Nitrate**	MB*	1.169	4.500	0.9545
TOTAL:				41.86	196.72	118.29



Peak Integration Report

Sample Name:	**XL2430219-09; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Jun-2024 / 02:19**	*Run Time:*	**10.00**

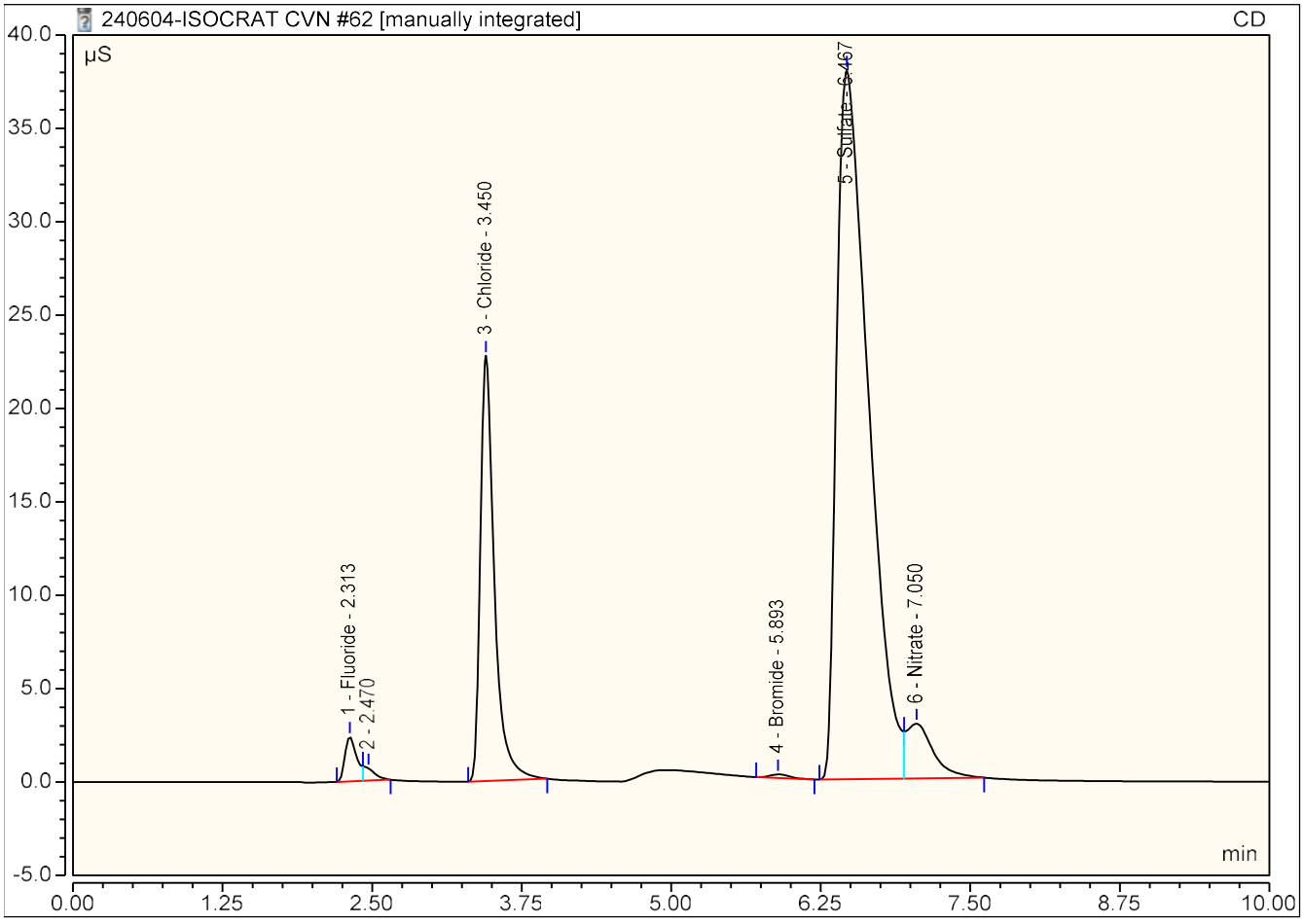
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.000	0.004	0.6418
4	3.45	**Chloride**	BMB*	1.958	13.993	48.3972
6	5.93	**Bromide**	BMB	0.001	0.004	0.3975
7	6.64	**Sulfate**	BM *	2.185	9.587	77.3253
8	7.10	**Nitrate**	MB*	0.088	0.382	0.6515
TOTAL:				4.23	23.97	127.41



Peak Integration Report

Sample Name:	**L2430047-04 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Jun-2024 / 02:31**	*Run Time:*	**10.00**

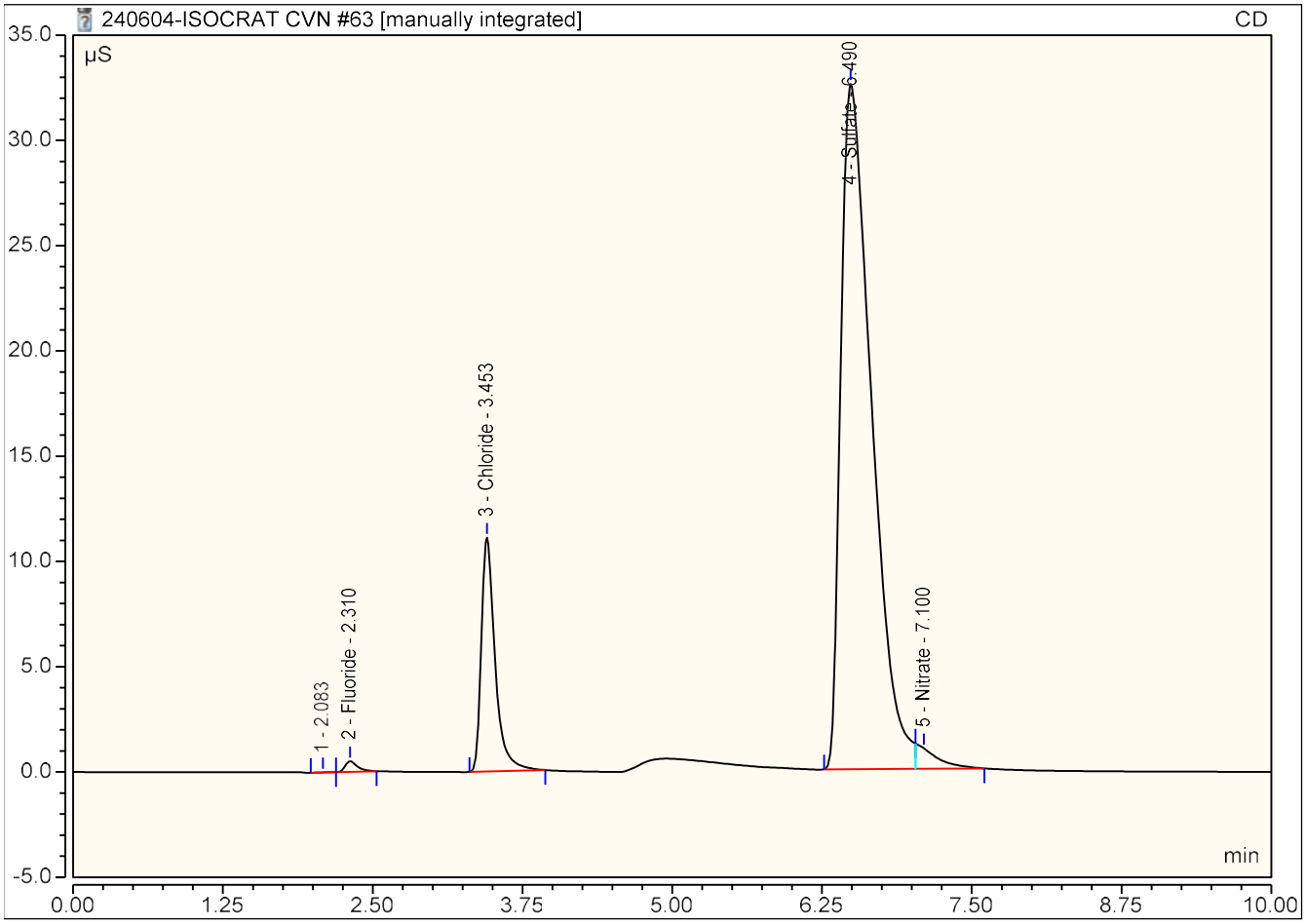
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.31	**Fluoride**	BM *	0.269	2.389	0.4745
3	3.45	**Chloride**	BMB*	3.084	22.769	7.4828
4	5.89	**Bromide**	BMB	0.036	0.195	0.3152
5	6.47	**Sulfate**	BM *	11.655	37.938	39.2283
6	7.05	**Nitrate**	MB*	0.769	2.939	0.6252
TOTAL:				15.81	66.23	48.13



Peak Integration Report

Sample Name:	**L2430047-04 DUP**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Jun-2024 / 02:43**	*Run Time:*	**10.00**

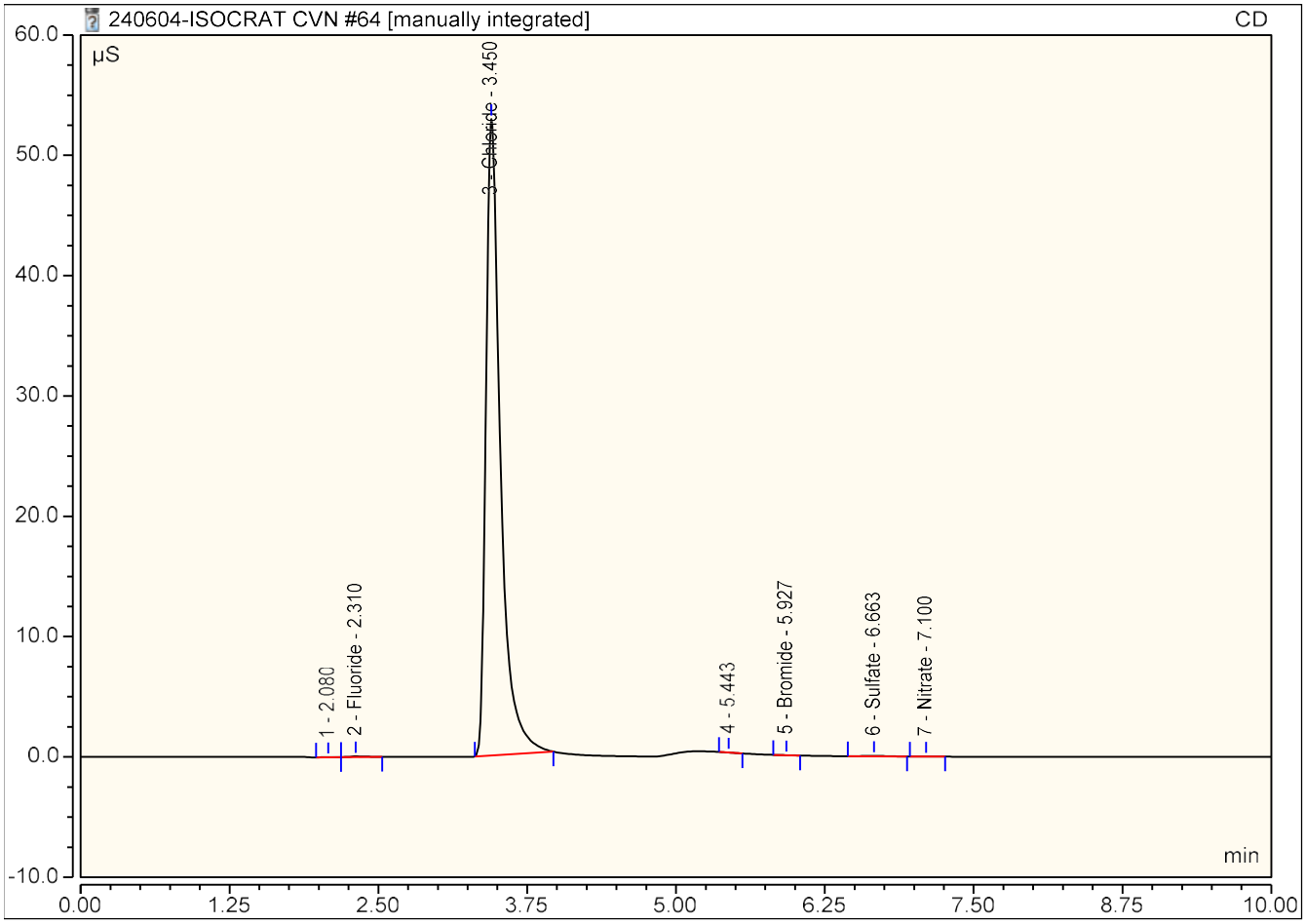
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.059	0.509	0.1540
3	3.45	**Chloride**	BMB*	1.473	11.103	3.7003
4	6.49	**Sulfate**	BM *	9.707	32.548	32.7488
5	7.10	**Nitrate**	MB*	0.224	0.971	0.1776
TOTAL:				11.46	45.13	36.78



Peak Integration Report

Sample Name:	**L2430033-03; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Jun-2024 / 02:55**	*Run Time:*	**10.00**

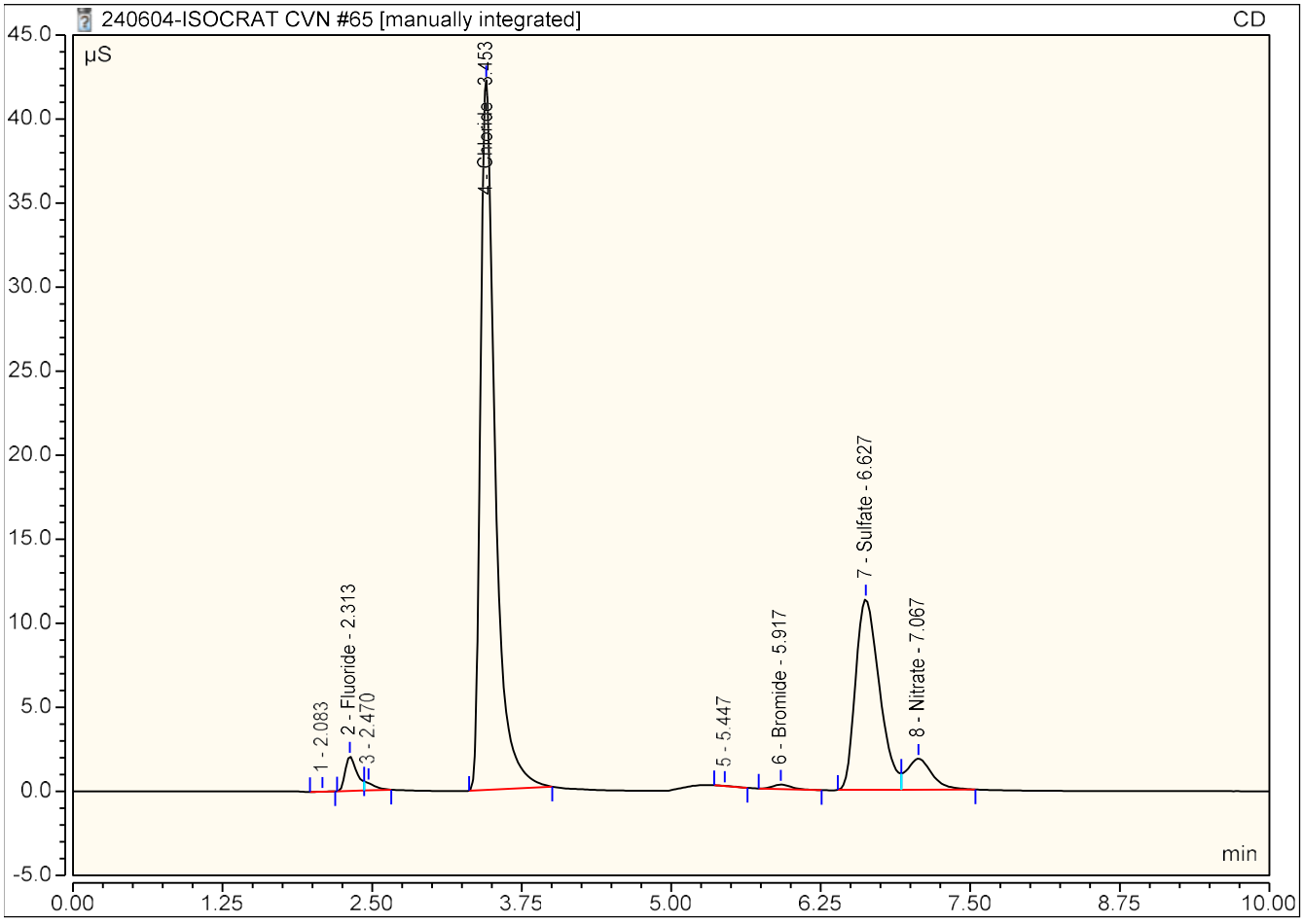
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.007	0.049	0.7411
3	3.45	**Chloride**	BMB*	7.495	52.891	178.3484
5	5.93	**Bromide**	BMB	0.000	0.003	0.3845
6	6.66	**Sulfate**	BMB	0.009	0.044	4.9711
7	7.10	**Nitrate**	BMB	0.000	0.003	n.a.
TOTAL:				7.51	52.99	184.45



Peak Integration Report

Sample Name:	**L2430345-04 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Jun-2024 / 03:07**	*Run Time:*	**10.00**

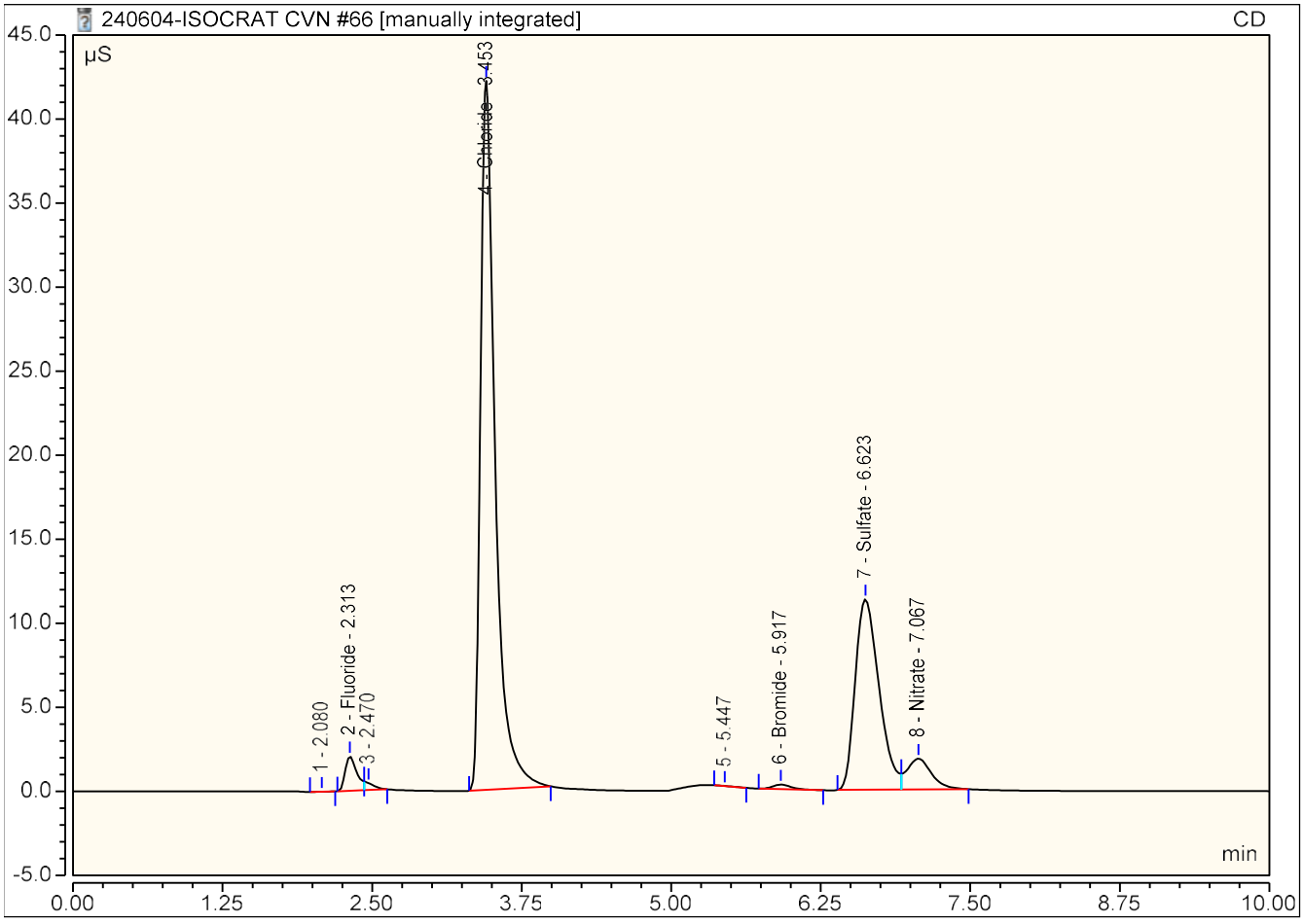
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BM *	0.230	2.051	0.4145
4	3.45	**Chloride**	BMB*	6.008	42.214	14.3447
6	5.92	**Bromide**	BMB	0.048	0.270	0.4093
7	6.63	**Sulfate**	BM *	2.624	11.333	9.1928
8	7.07	**Nitrate**	MB*	0.448	1.847	0.3611
TOTAL:				9.36	57.72	24.72



Peak Integration Report

Sample Name:	**L2430345-04 MSD**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Jun-2024 / 03:19**	*Run Time:*	**10.00**

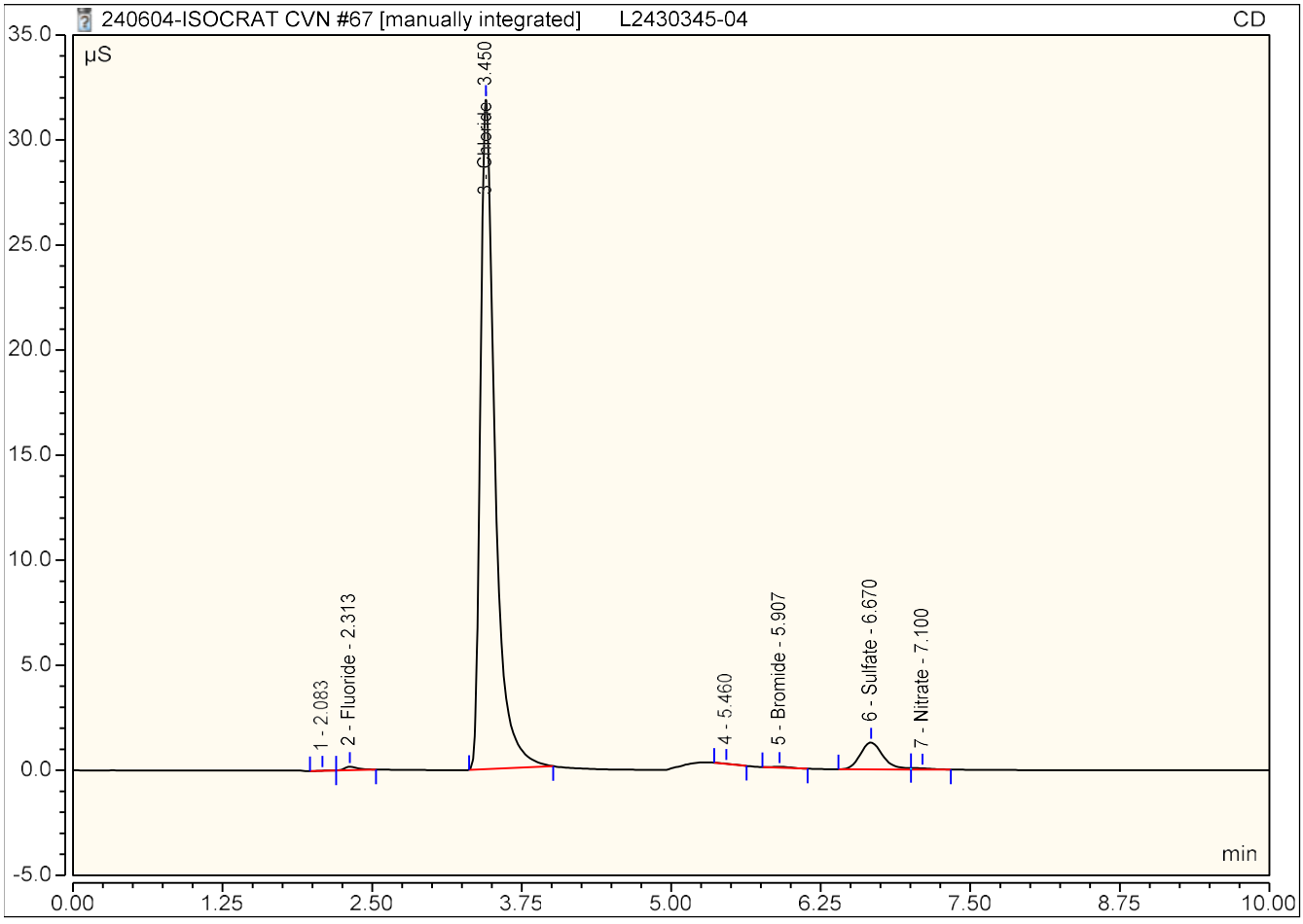
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BM *	0.228	2.047	0.4117
4	3.45	**Chloride**	BMB*	5.989	42.189	14.3009
6	5.92	**Bromide**	BMB	0.048	0.272	0.4125
7	6.62	**Sulfate**	BM *	2.619	11.332	9.1756
8	7.07	**Nitrate**	MB*	0.435	1.832	0.3508
TOTAL:				9.32	57.67	24.65



Peak Integration Report

Sample Name:	**L2430345-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Jun-2024 / 03:31**	*Run Time:*	**10.00**

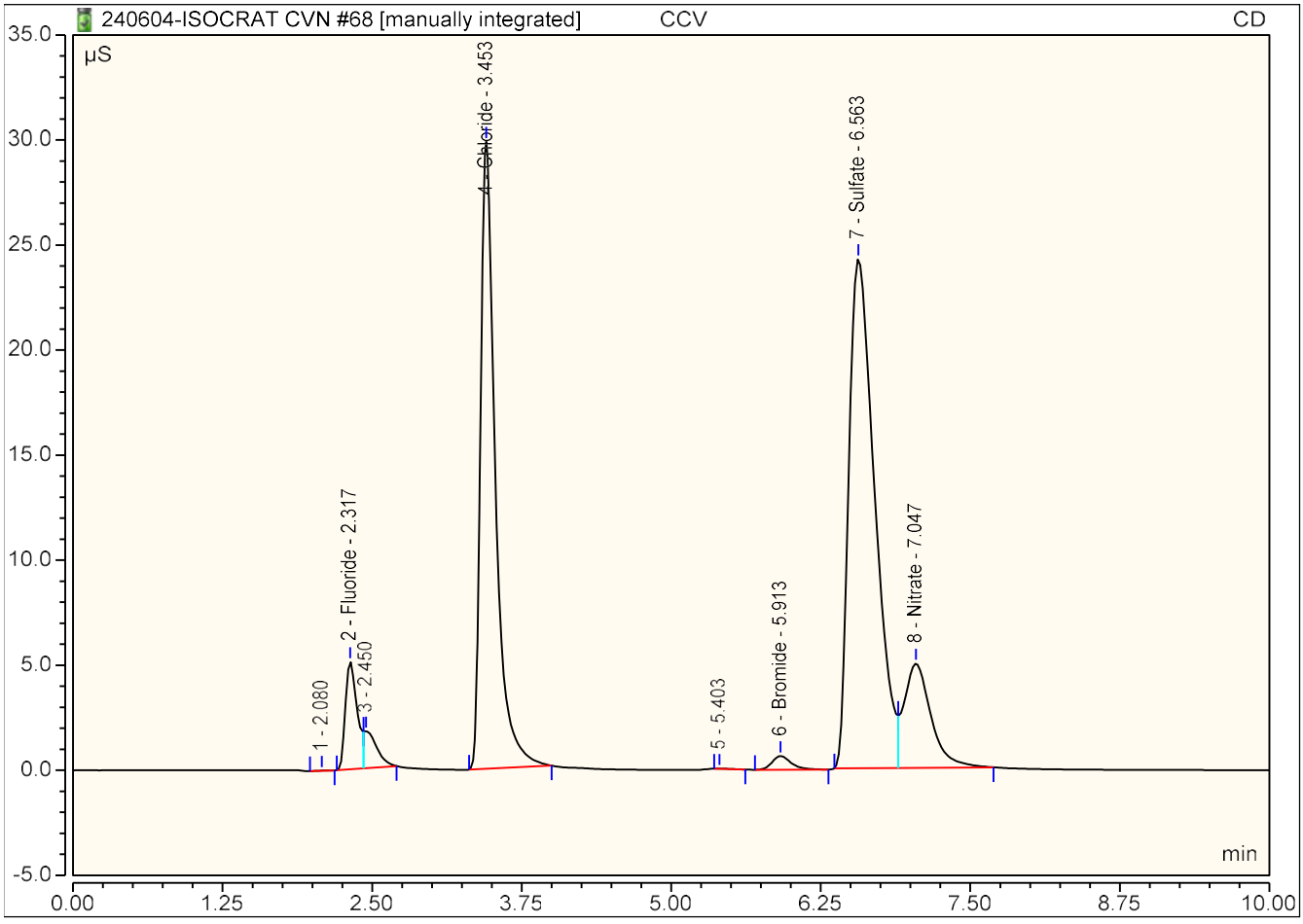
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.021	0.165	0.0953
3	3.45	**Chloride**	BMB*	4.488	31.851	10.7787
5	5.91	**Bromide**	BMB	0.008	0.049	0.0992
6	6.67	**Sulfate**	BM *	0.281	1.281	1.3998
7	7.10	**Nitrate**	MB*	0.011	0.056	0.0024
TOTAL:				4.81	33.40	12.38



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Jun-2024 / 03:43**	*Run Time:*	**10.00**

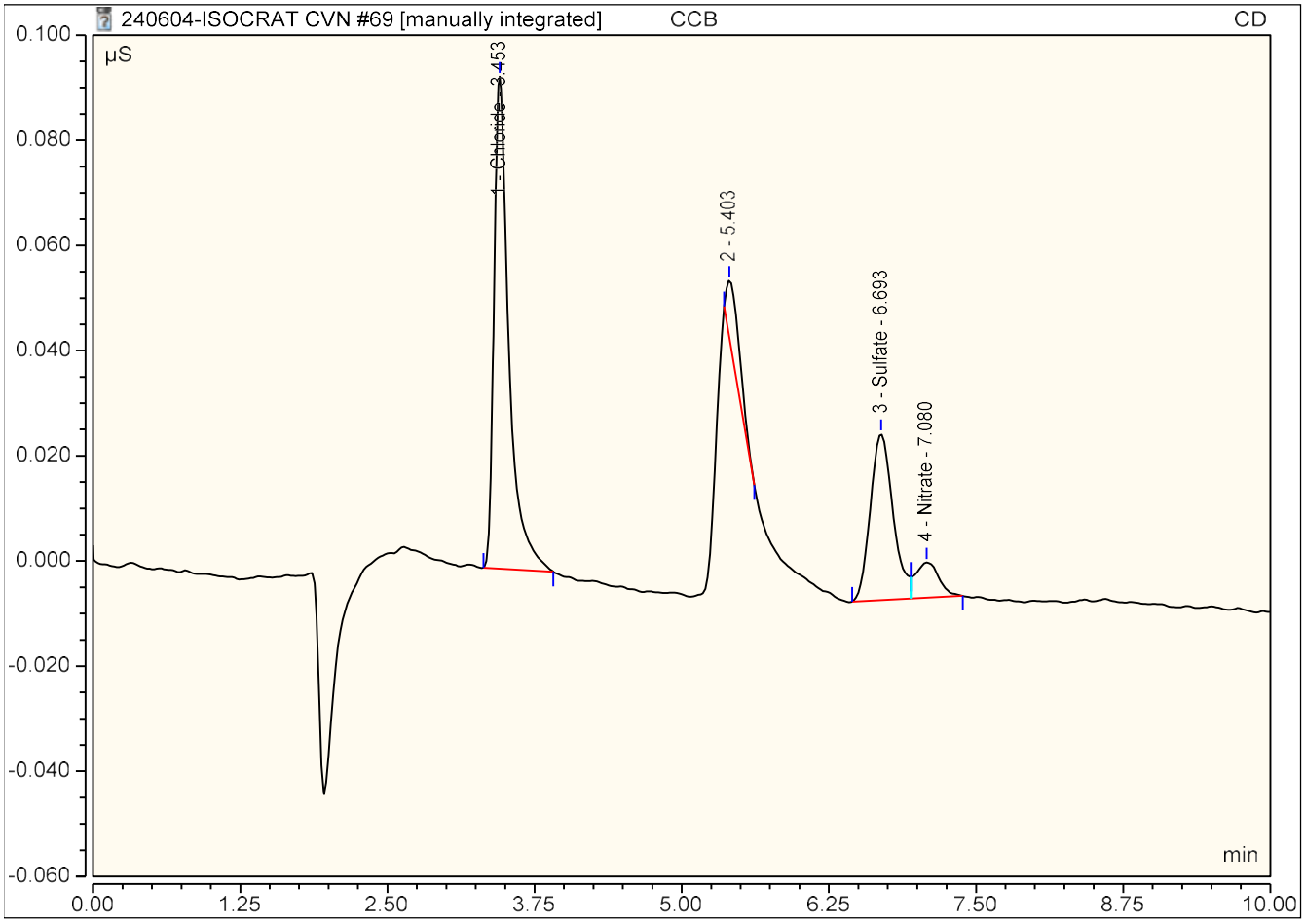
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BM *	0.581	5.114	0.9494
4	3.45	**Chloride**	BMB*	4.268	29.848	10.2617
6	5.91	**Bromide**	BMB	0.121	0.653	0.9743
7	6.56	**Sulfate**	BM *	6.069	24.231	20.6513
8	7.05	**Nitrate**	MB*	1.296	4.962	1.0589
TOTAL:				12.34	64.81	33.90



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Jun-2024 / 03:55**	*Run Time:*	**10.00**

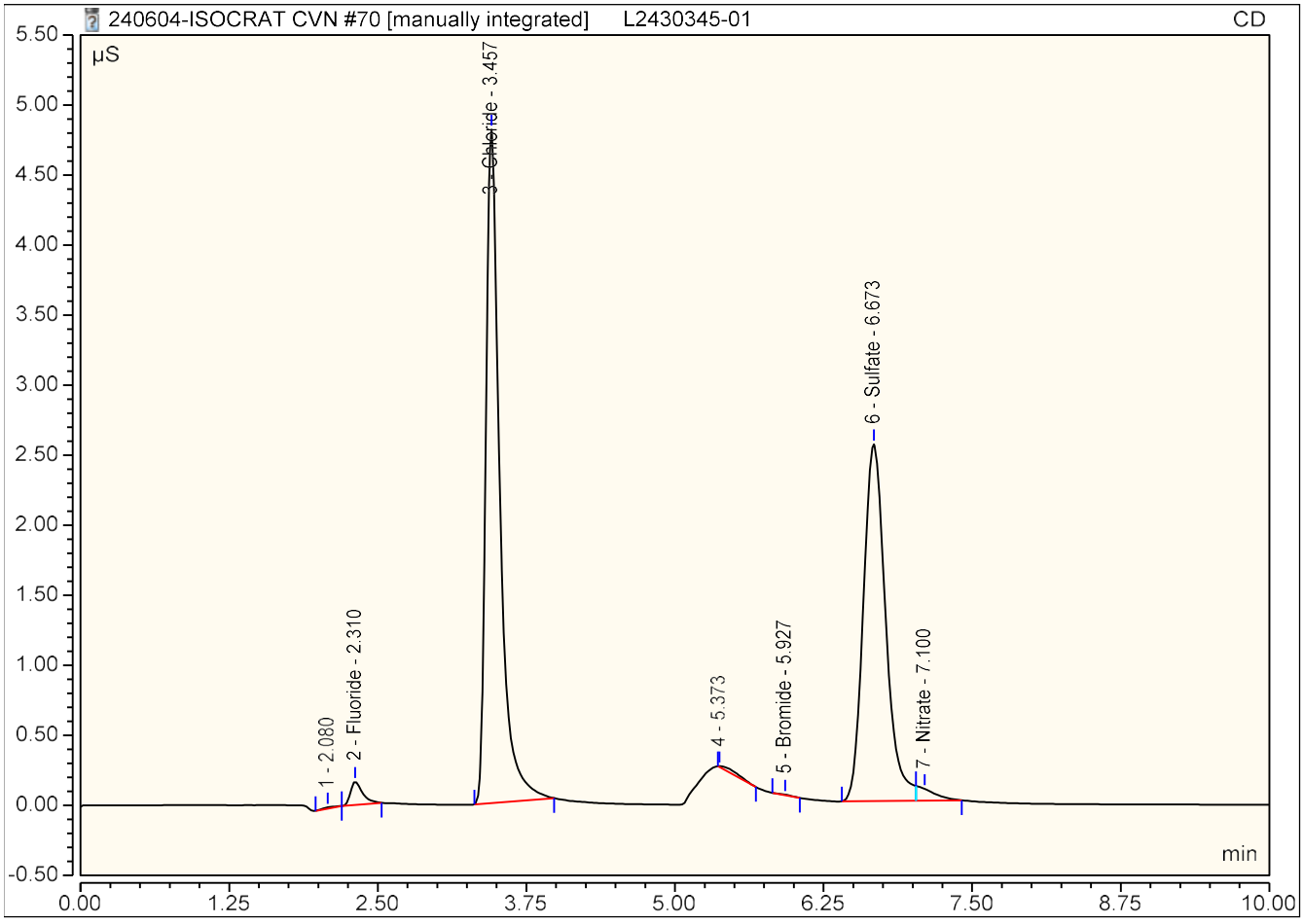
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	3.45	**Chloride**	BMB*	0.014	0.094	0.2751
3	6.69	**Sulfate**	BM *	0.007	0.032	0.4900
4	7.08	**Nitrate**	MB*	0.002	0.007	n.a.
TOTAL:				0.02	0.13	0.77



Peak Integration Report

Sample Name:	**L2430345-01**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Jun-2024 / 04:08**	*Run Time:*	**10.00**

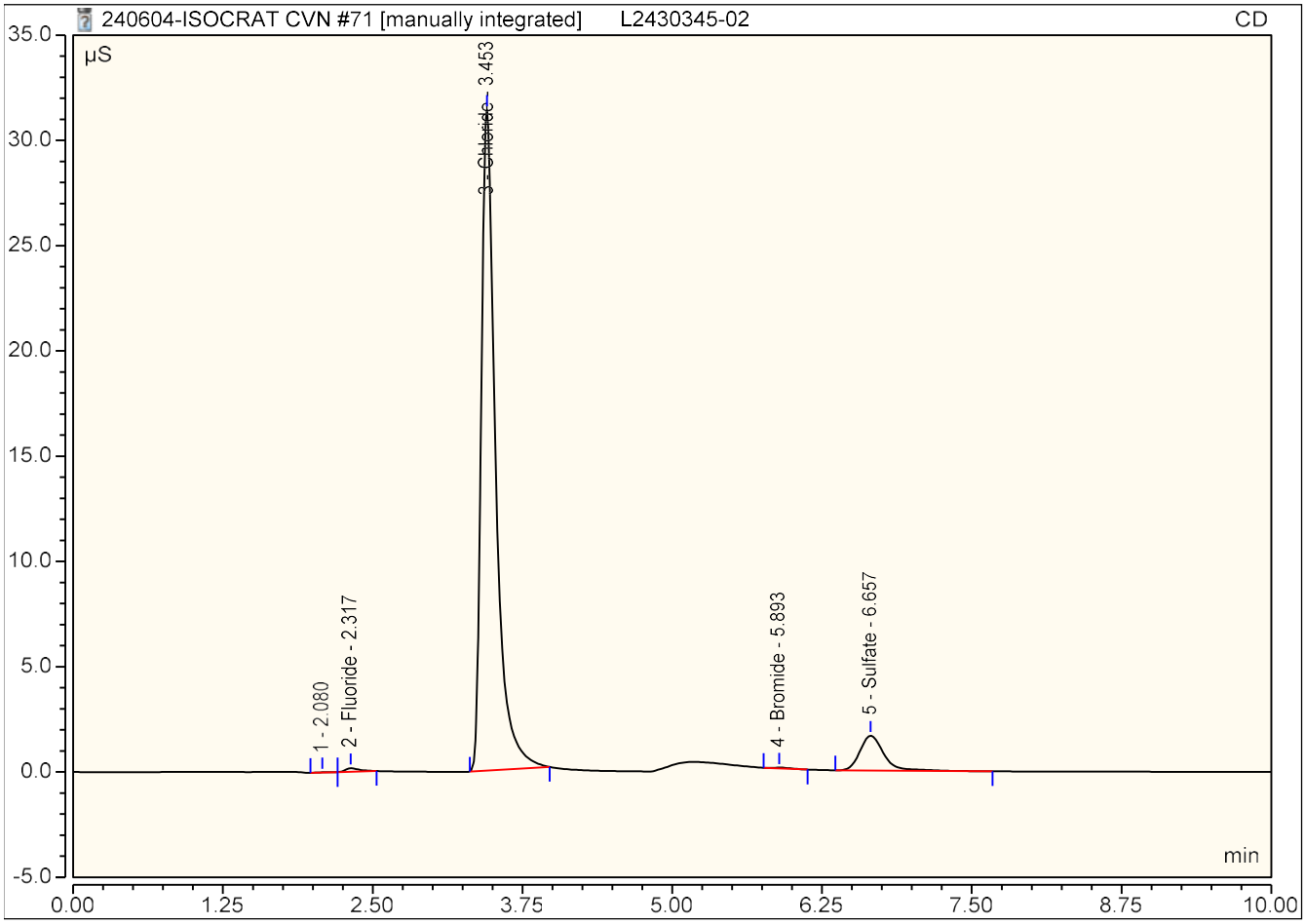
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.019	0.165	0.0933
3	3.46	**Chloride**	BMB*	0.654	4.809	1.7786
5	5.93	**Bromide**	BMB	0.000	0.004	0.0391
6	6.67	**Sulfate**	BM *	0.554	2.547	2.3094
7	7.10	**Nitrate**	MB*	0.017	0.084	0.0068
TOTAL:				1.25	7.61	4.23



Peak Integration Report

Sample Name:	**L2430345-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Jun-2024 / 04:20**	*Run Time:*	**10.00**

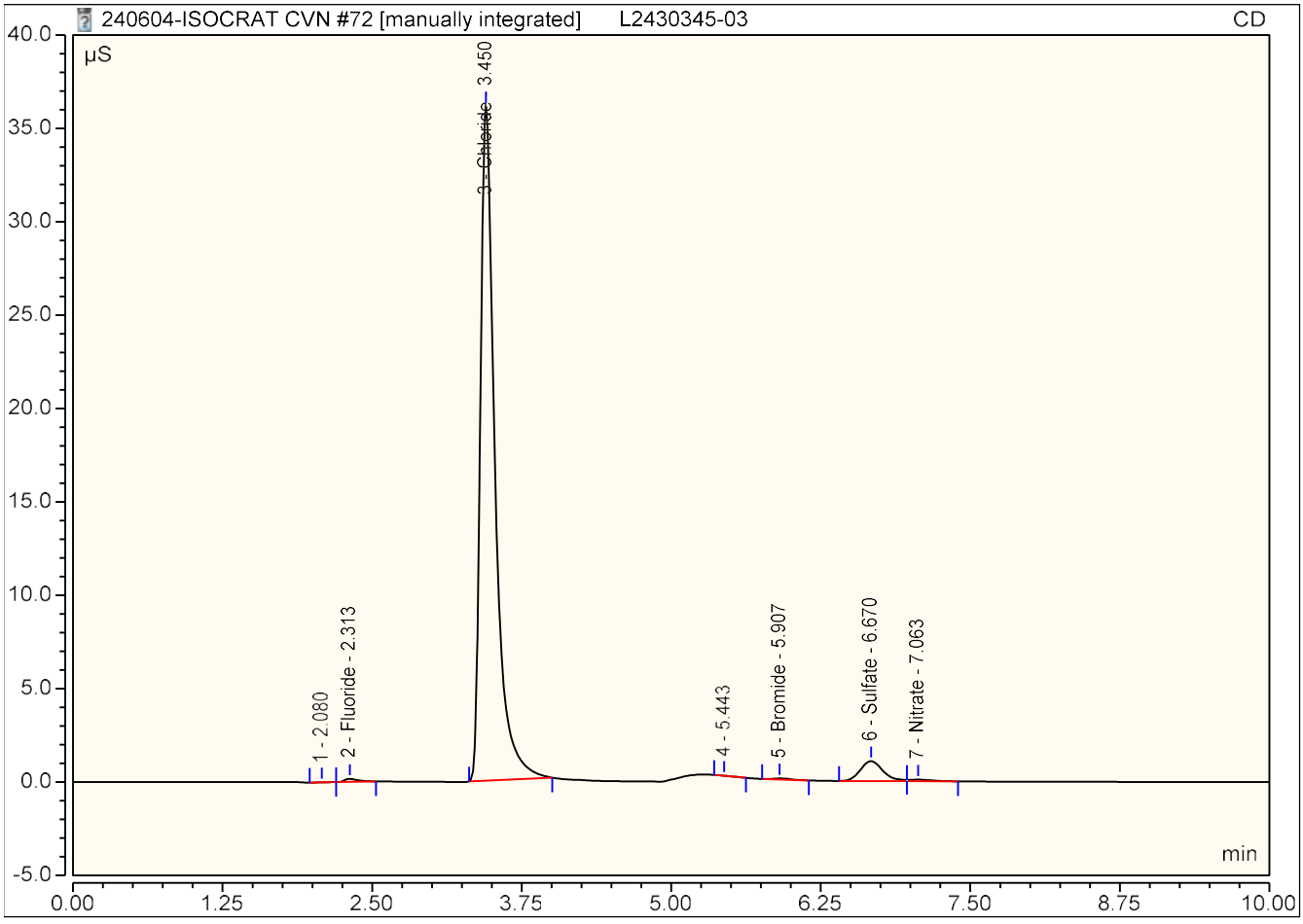
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.023	0.167	0.0983
3	3.45	**Chloride**	BMB*	4.353	31.376	10.4597
4	5.89	**Bromide**	BMB	0.006	0.035	0.0833
5	6.66	**Sulfate**	BMB	0.383	1.656	1.7418
TOTAL:				4.76	33.23	12.38



Peak Integration Report

Sample Name:	**L2430345-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Jun-2024 / 04:32**	*Run Time:*	**10.00**

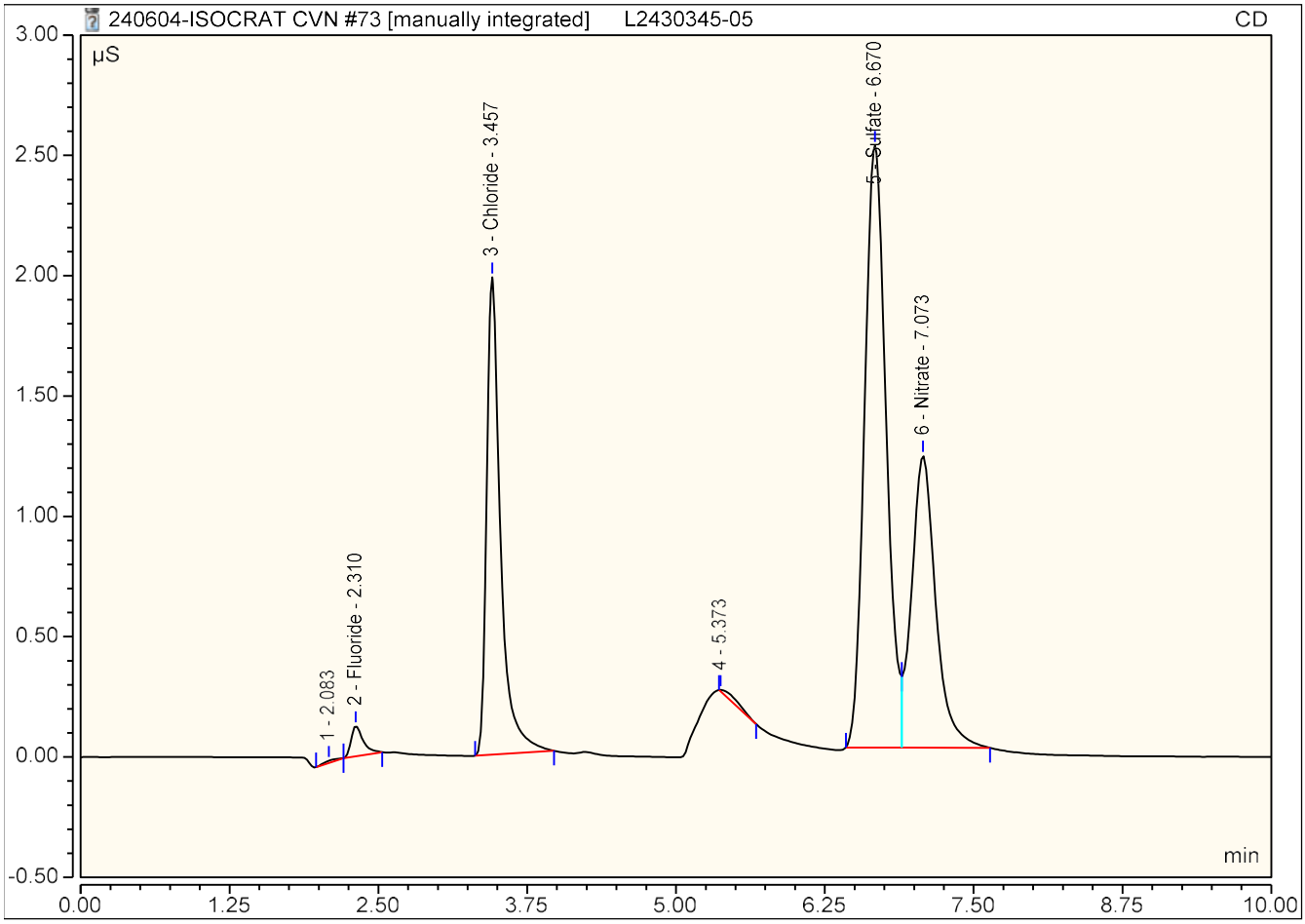
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.021	0.166	0.0954
3	3.45	**Chloride**	BMB*	5.090	36.099	12.1895
5	5.91	**Bromide**	BMB	0.010	0.060	0.1137
6	6.67	**Sulfate**	BM *	0.234	1.070	1.2459
7	7.06	**Nitrate**	MB*	0.019	0.083	0.0083
TOTAL:				5.37	37.48	13.65



Peak Integration Report

Sample Name:	**L2430345-05**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Jun-2024 / 04:44**	*Run Time:*	**10.00**

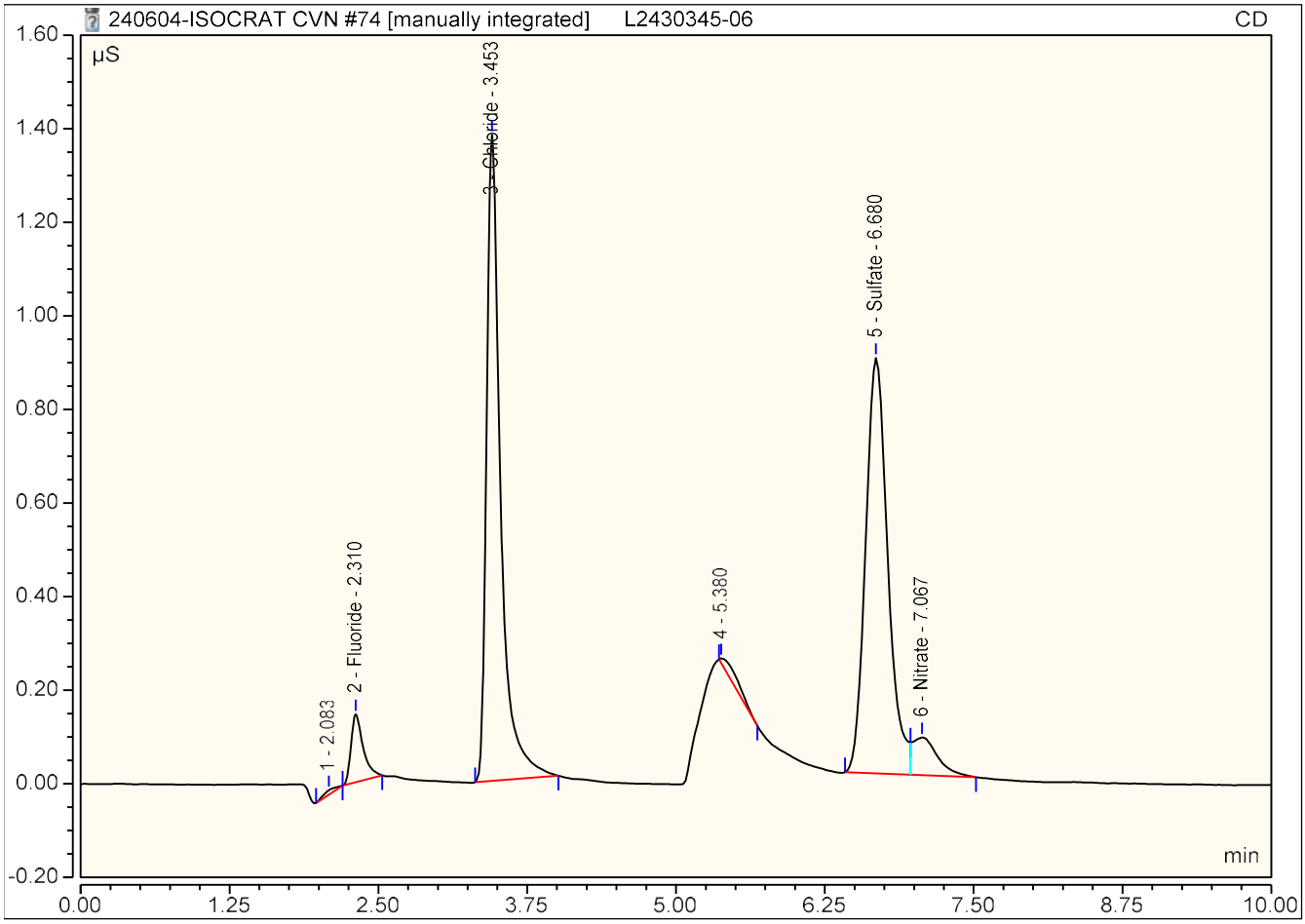
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.015	0.126	0.0862
3	3.46	**Chloride**	BMB*	0.268	1.984	0.8715
5	6.67	**Sulfate**	BM *	0.525	2.501	2.2115
6	7.07	**Nitrate**	MB*	0.285	1.214	0.2275
TOTAL:				1.09	5.83	3.40



Peak Integration Report

Sample Name:	**L2430345-06**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Jun-2024 / 04:56**	*Run Time:*	**10.00**

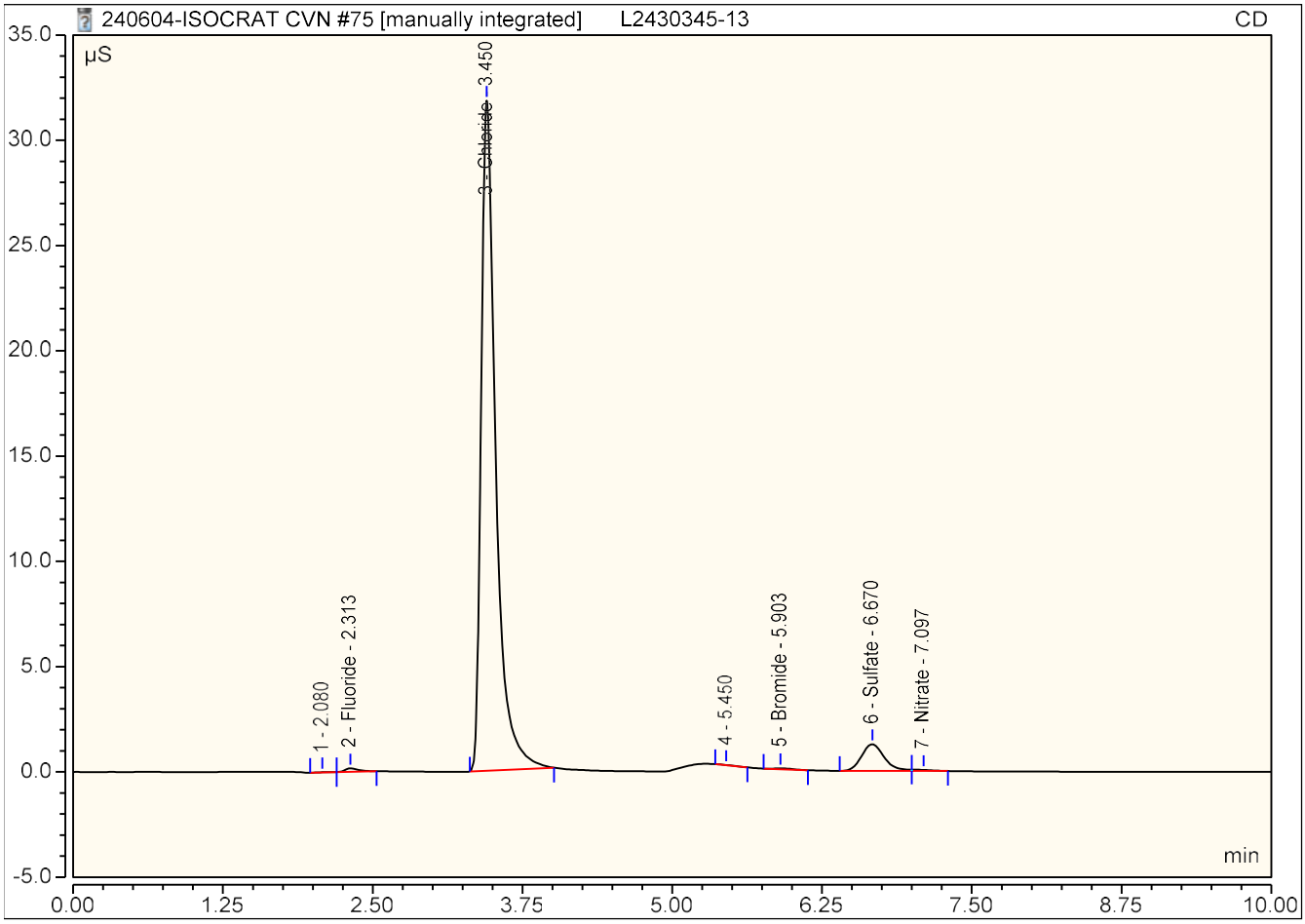
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.017	0.145	0.0898
3	3.45	**Chloride**	BMB*	0.188	1.380	0.6854
5	6.68	**Sulfate**	BM *	0.192	0.888	1.1045
6	7.07	**Nitrate**	MB*	0.020	0.081	0.0092
TOTAL:				0.42	2.49	1.89



Peak Integration Report

Sample Name:	**L2430345-13**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Jun-2024 / 05:08**	*Run Time:*	**10.00**

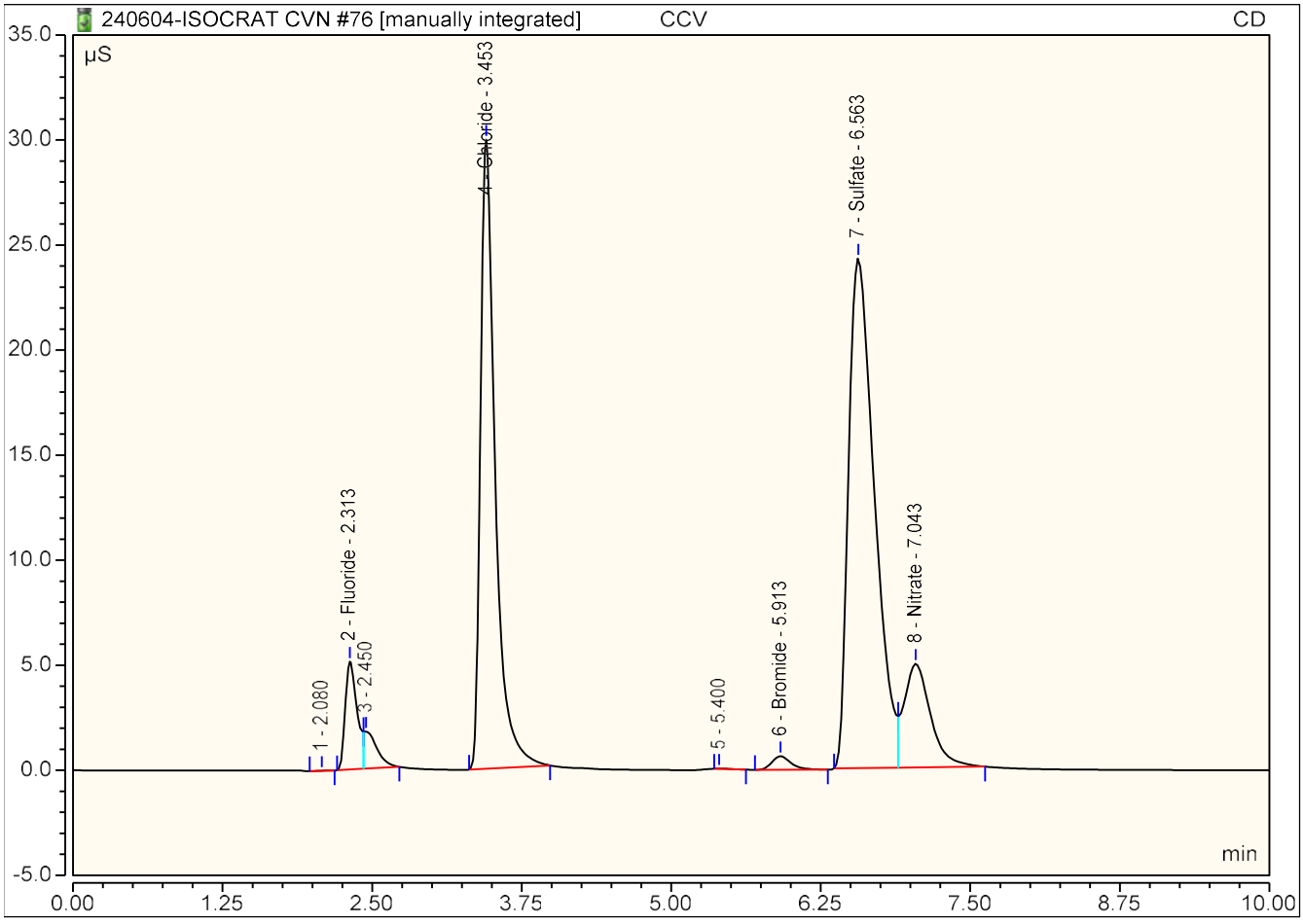
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.020	0.164	0.0949
3	3.45	**Chloride**	BMB*	4.473	31.820	10.7415
5	5.90	**Bromide**	BMB	0.008	0.048	0.0975
6	6.67	**Sulfate**	BM *	0.277	1.271	1.3865
7	7.10	**Nitrate**	MB*	0.010	0.053	0.0015
TOTAL:				4.79	33.36	12.32



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Jun-2024 / 05:20**	*Run Time:*	**10.00**

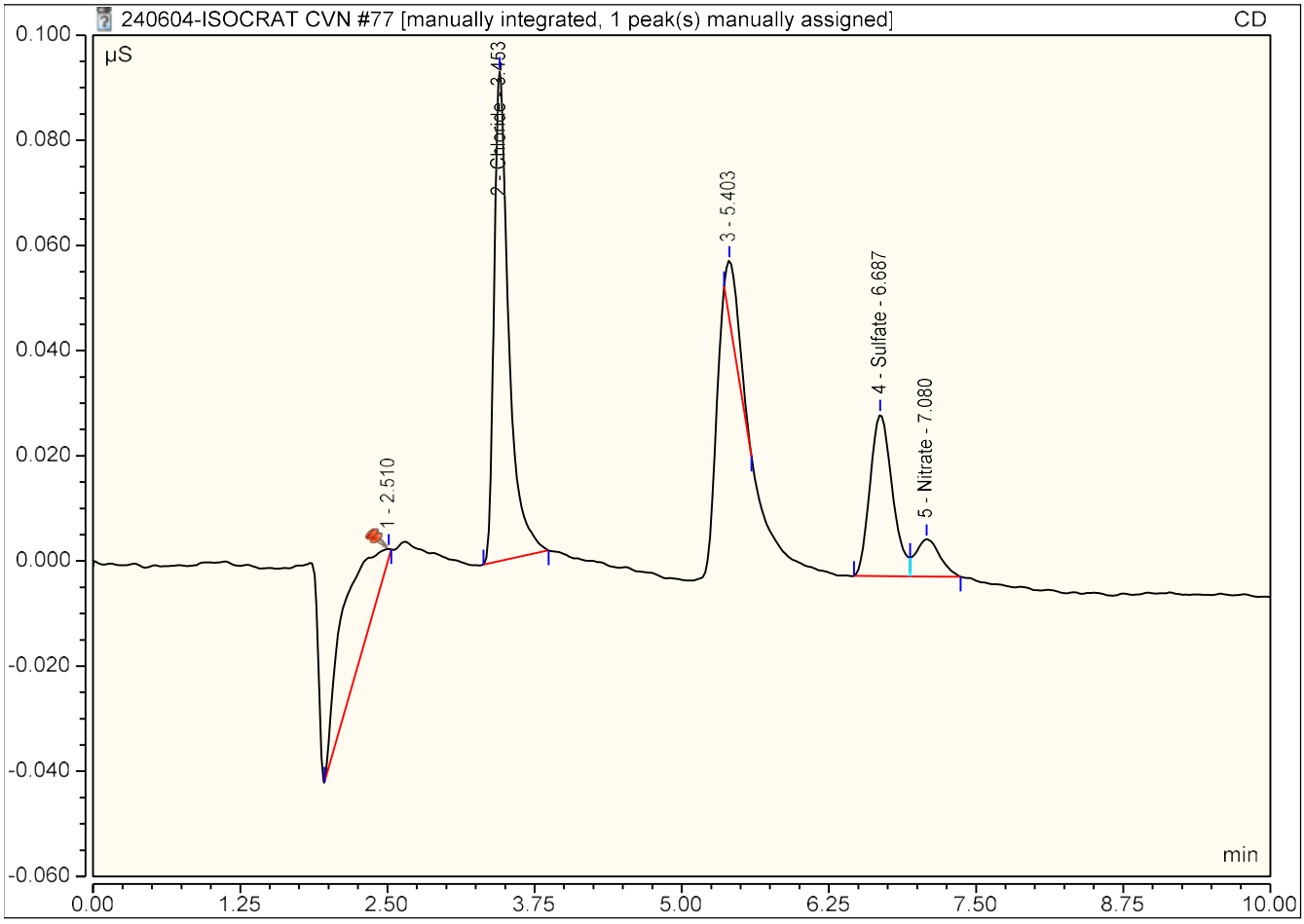
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BM *	0.584	5.130	0.9535
4	3.45	**Chloride**	BMB*	4.263	29.943	10.2484
6	5.91	**Bromide**	BMB	0.120	0.649	0.9680
7	6.56	**Sulfate**	BM *	6.081	24.254	20.6905
8	7.04	**Nitrate**	MB*	1.269	4.932	1.0367
TOTAL:				12.32	64.91	33.90



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Jun-2024 / 05:32**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.45	**Chloride**	BMB*	0.013	0.093	0.2745
4	6.69	**Sulfate**	BM *	0.007	0.031	0.4890
5	7.08	**Nitrate**	MB*	0.002	0.007	n.a.
TOTAL:				0.02	0.13	0.76



Anion Summary Report

No.	Name	Dilution	Amount CD Fluoride	Amount CD Chloride	Amount CD Nitrate	Amount CD Sulfate	Amount CD Bromide
1	BLANK	1.0	0.0784	0.2701	n.a.	n.a.	n.a.
2	STD 0.5	1.0	0.0783	0.4332	0.0191	0.8160	0.0494
3	STD 1.0	1.0	0.0916	0.6443	0.0517	1.2137	0.0746
4	STD 2.0	1.0	0.1842	1.9244	0.1830	3.9833	0.1750
5	STD 3.0	1.0	0.4522	4.9708	0.5260	9.9161	0.4660
6	STD 4.0	1.0	1.9400	19.6228	1.9952	39.2760	2.0101
7	STD 5.0	1.0	5.0287	50.1545	5.2920	100.2949	5.5415
8	RINSE	1.0	0.0795	0.2662	n.a.	0.4710	n.a.
9	CCV	1.0	1.0080	9.6397	0.9993	19.4967	0.9135
10	CCB	1.0	n.a.	0.2537	n.a.	0.4695	n.a.
11	ICV	1.0	0.7343	8.0590	0.7416	7.9054	0.7835
12	ICB	1.0	n.a.	0.2732	n.a.	0.4888	n.a.
13	BLK	1.0	n.a.	0.2549	n.a.	0.4674	n.a.
14	LCS	1.0	0.7343	8.0836	0.7411	7.9129	0.7735
15	L2430047-01 CL F SO4	1.0	0.2161	10.2797	0.9464	32.5243	0.0644
16	L2430047-02	1.0	0.1645	17.5096	n.a.	45.7490	n.a.
17	L2430047-03	1.0	0.1349	5.1545	0.3753	31.3831	0.0463
18	L2430047-04	1.0	0.1518	3.6873	0.2067	32.6136	n.a.
19	L2430047-06	1.0	0.0957	2.0896	0.5566	49.0544	0.0475
20	L2430047-07	1.0	0.1214	9.1966	n.a.	45.2606	n.a.
21	CCV	1.0	0.8995	9.5129	0.9996	19.2830	0.9047
22	CCB	1.0	n.a.	0.2791	n.a.	0.4921	n.a.
23	L2430047-08	1.0	0.1520	3.7115	0.1959	32.6783	n.a.
24	L2430047-09	1.0	0.2562	23.2713	1.1963	33.2517	0.0576
25	L2430033-01 CL	1.0	0.1334	16.4124	n.a.	7.1196	n.a.
26	L2430033-02; 10X	10.0	0.8372	65.9575	n.a.	5114.6898	n.a.
27	XL2430033-03	1.0	0.1669	178.7019	n.a.	0.7602	0.1687
28	XL2430345-01 CL; 10X	10.0	0.6745	3.9345	n.a.	6.4934	n.a.
29	XL2430345-02; 10X	10.0	0.6747	11.8599	n.a.	5.8370	0.3678
30	XL2430345-03; 10X	10.0	0.6754	13.5773	n.a.	5.4186	0.3898
31	XL2430345-04; 10X	10.0	0.6716	11.8475	n.a.	5.5817	0.3869
32	XL2430345-05; 10X	10.0	0.6641	3.1210	0.1321	6.1700	n.a.
33	CCV	1.0	0.9507	10.1714	1.0733	20.4981	0.9754
34	CCB	1.0	n.a.	0.2812	n.a.	0.4945	n.a.
35	XL2430345-06; 10X	10.0	0.6566	3.0170	n.a.	5.4391	n.a.
36	XL2430345-13; 10X	10.0	0.6744	12.1680	n.a.	5.5043	0.3841
37	L2430219-01 F CL SO4 BR	1.0	0.0936	33.9536	n.a.	230.4188	0.0611
38	L2430219-01; 10X SO4 BR	10.0	0.6751	35.1858	n.a.	240.1489	0.4088
39	L2430219-02	1.0	0.1070	7.7650	1.5700	43.3030	n.a.
40	L2430219-03	1.0	0.1343	16.4355	6.7750	144.8475	n.a.
41	L2430219-03; 10X SO4	10.0	0.7295	18.9867	6.6767	162.8583	n.a.
42	L2430219-06	1.0	0.0788	45.9056	1.3569	130.1560	0.1594
43	L2430219-06; 10X SO4	10.0	0.6603	49.7979	1.0959	141.0030	0.4118
44	CCV	1.0	0.9575	10.2371	1.0706	20.5680	0.9740
45	CCB	1.0	n.a.	0.2824	n.a.	0.4975	n.a.

46	L2430219-04 MS	1.0	0.3757	126.3900	0.8690	15.7197	0.3686
47	L2430219-04 MSD	1.0	0.3762	126.1205	0.8661	15.7020	0.3700
48	L2430219-04	1.0	0.0779	127.0301	0.4466	7.9059	0.0471
49	L2430219-04 MS; 10X CL	10.0	3.6237	166.9921	4.0544	88.7444	3.5347
50	L2430219-04 MSD; 10X	10.0	3.5971	167.1633	4.1810	88.7650	3.5549
51	L2430219-04; 10X	10.0	0.6438	138.0009	0.2990	10.9387	n.a.
52	L2430219-05	1.0	0.0680	10.0867	1.5113	22.7765	0.0417
53	L2430219-07	1.0	0.0749	34.6067	4.5142	86.3920	0.1145
54	XL2430219-07; 10X	10.0	0.6574	37.6360	4.1208	94.4769	0.3795
55	L2430219-08	1.0	0.0771	45.5625	0.9904	71.9793	0.1149
56	CCV	1.0	0.9565	10.2462	1.0527	20.5558	0.9732
57	CCB	1.0	n.a.	0.2752	n.a.	0.4912	n.a.
58	BLK-2	1.0	n.a.	0.2607	n.a.	0.4743	n.a.
59	LCS-2	1.0	0.7626	8.1214	0.7397	7.9901	0.7751
60	L2430219-09	1.0	0.0778	45.3815	0.9545	71.7564	0.1166
61	XL2430219-09; 10X	10.0	0.6418	48.3972	0.6515	77.3253	0.3975
62	L2430047-04 MS	1.0	0.4745	7.4828	0.6252	39.2283	0.3152
63	L2430047-04 DUP	1.0	0.1540	3.7003	0.1776	32.7488	n.a.
64	L2430033-03; 10X	10.0	0.7411	178.3484	n.a.	4.9711	0.3845
65	L2430345-04 MS	1.0	0.4145	14.3447	0.3611	9.1928	0.4093
66	L2430345-04 MSD	1.0	0.4117	14.3009	0.3508	9.1756	0.4125
67	L2430345-04	1.0	0.0953	10.7787	0.0024	1.3998	0.0992
68	CCV	1.0	0.9494	10.2617	1.0589	20.6513	0.9743
69	CCB	1.0	n.a.	0.2751	n.a.	0.4900	n.a.
70	L2430345-01	1.0	0.0933	1.7786	0.0068	2.3094	0.0391
71	L2430345-02	1.0	0.0983	10.4597	n.a.	1.7418	0.0833
72	L2430345-03	1.0	0.0954	12.1895	0.0083	1.2459	0.1137
73	L2430345-05	1.0	0.0862	0.8715	0.2275	2.2115	n.a.
74	L2430345-06	1.0	0.0898	0.6854	0.0092	1.1045	n.a.
75	L2430345-13	1.0	0.0949	10.7415	0.0015	1.3865	0.0975
76	CCV	1.0	0.9535	10.2484	1.0367	20.6905	0.9680
77	CCB	1.0	n.a.	0.2745	n.a.	0.4890	n.a.
	Sum:	230.000	39.5798		63.8935	7643.8395	31.2802
	Average:	2.987	0.5907		1.2779	100.5768	0.6384
	Rel.Std.Dev:	125.792 %	1.4495		1.3093	5.8165	1.6084

Inject Time	Comment
08/May/2024 13:13	AU
08/May/2024 13:25	LOT#240508-0.5
08/May/2024 13:37	LOT#240508-1.0
08/May/2024 13:49	LOT#240508-2.0
08/May/2024 14:01	LOT#240508-3.0
08/May/2024 14:13	LOT#240508-4.0
08/May/2024 14:25	LOT#240508-5.0
04/Jun/2024 15:13	NG1929609-611-615
04/Jun/2024 15:25	LOT#240604-C
04/Jun/2024 15:37	CVN
04/Jun/2024 16:13	LOT#240604-I
04/Jun/2024 16:26	CVN
04/Jun/2024 16:38	CVN
04/Jun/2024 16:50	LOT#240604-I
04/Jun/2024 17:03	CVN
04/Jun/2024 17:15	CVN
04/Jun/2024 17:27	CVN
04/Jun/2024 17:39	CVN
04/Jun/2024 17:51	CVN
04/Jun/2024 18:03	CVN
04/Jun/2024 18:15	LOT#240604-C
04/Jun/2024 18:27	CVN
04/Jun/2024 18:39	CVN
04/Jun/2024 18:51	CVN
04/Jun/2024 19:04	CVN
04/Jun/2024 19:16	CVN
04/Jun/2024 19:28	CVN
04/Jun/2024 19:40	CVN
04/Jun/2024 19:52	CVN
04/Jun/2024 20:04	CVN
04/Jun/2024 20:16	CVN
04/Jun/2024 20:28	CVN
04/Jun/2024 20:40	LOT#240604-C
04/Jun/2024 20:52	CVN
04/Jun/2024 21:04	CVN
04/Jun/2024 21:17	CVN
04/Jun/2024 21:29	CVN
04/Jun/2024 21:41	CVN
04/Jun/2024 21:53	CVN
04/Jun/2024 22:05	CVN
04/Jun/2024 22:17	CVN
04/Jun/2024 22:29	CVN
04/Jun/2024 22:41	CVN
04/Jun/2024 22:53	LOT#240604-C
04/Jun/2024 23:05	CVN

04/Jun/2024 23:17	CVN
04/Jun/2024 23:29	CVN
04/Jun/2024 23:42	CVN
04/Jun/2024 23:54	CVN
05/Jun/2024 00:06	CVN
05/Jun/2024 00:18	CVN
05/Jun/2024 00:30	CVN
05/Jun/2024 00:42	CVN
05/Jun/2024 00:54	CVN
05/Jun/2024 01:06	CVN
05/Jun/2024 01:18	LOT#240604-C
05/Jun/2024 01:30	CVN
05/Jun/2024 01:42	CVN
05/Jun/2024 01:55	LOT#240604-I
05/Jun/2024 02:07	CVN
05/Jun/2024 02:19	CVN
05/Jun/2024 02:31	CVN
05/Jun/2024 02:43	CVN
05/Jun/2024 02:55	CVN
05/Jun/2024 03:07	CVN
05/Jun/2024 03:19	CVN
05/Jun/2024 03:31	CVN
05/Jun/2024 03:43	LOT#240604-C
05/Jun/2024 03:55	CVN
05/Jun/2024 04:08	CVN
05/Jun/2024 04:20	CVN
05/Jun/2024 04:32	CVN
05/Jun/2024 04:44	CVN
05/Jun/2024 04:56	CVN
05/Jun/2024 05:08	CVN
05/Jun/2024 05:20	LOT#240604-C
05/Jun/2024 05:32	CVN
	0.000
	#DIV/0!
	#DIV/0!

Quality Control

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix**	: WATER
Lab Sample ID	: L2430219-04		
Matrix Spike	: WG1929611-3	**MS Analysis Date**	: 06/04/24 23:17
Matrix Spike Dup	: WG1929611-4	**MSD Analysis Date**	: 06/04/24 23:29

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R		Spike Added (mg/l)	Spike Conc. (mg/l)	%R		RPD	Recovery Limits	RPD Limit
Bromide	0.047J	0.8	0.369	92		0.4	0.370	93		1	90-110	20
Fluoride	0.077	0.8	0.376	74	Q	0.4	0.376	75	Q	1	90-110	15
Sulfate	7.90	8	15.7	98		8	15.7	97		1	90-110	20

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix**	: WATER
Lab Sample ID	: L2430219-04		
Matrix Spike	: WG1929611-3	**MS Analysis Date**	: 06/04/24 23:54
Matrix Spike Dup	: WG1929611-4	**MSD Analysis Date**	: 06/05/24 00:06

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R		Spike Added (mg/l)	Spike Conc. (mg/l)	%R		RPD	Recovery Limits	RPD Limit
Chloride	138.	40	167.	72	Q	40	167.	73	Q	1	90-110	18

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2430219
Project Name	: HUNTINGTON READY MIXED	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1929611-2	**LCS Analysis Date**	: 06/04/24 16:50
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Bromide	0.800	0.774	97.					90-110	20
Chloride	8.00	8.08	101.					90-110	18
Fluoride	0.800	0.734	92.					90-110	15
Sulfate	8.00	7.91	99.					90-110	20

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Bromide	24959-67-9	0.05	0.0132	mg/l	90-110		90-110	20	20	300.0	28 days	1 - Plastic 250ml unpreserved
Chloride	16887-00-6	0.5	0.0839	mg/l	90-110		64-148	18	18	9056	28 days	1 - Plastic 250ml unpreserved
Chloride	16887-00-6	0.5	0.0839	mg/l	90-110		90-110	18	18	300.0	28 days	1 - Plastic 250ml unpreserved
Fluoride	16984-48-8	0.05	0.037	mg/l	90-110		81-124	15	15	9056	28 days	1 - Plastic 500ml unpreserved
Fluoride	16984-48-8	0.05	0.037	mg/l	90-110		90-110	15	15	300.0	28 days	1 - Plastic 500ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.05	0.0128	mg/l	90-110		90-110	15	15	300.0	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.05	0.0128	mg/l	90-110		80-120	15	15	9056	48 hours	1 - Plastic 250ml unpreserved
Sulfate	14808-79-8	1	0.454	mg/l	90-110		72-124	20	20	9056	28 days	1 - Plastic 500ml unpreserved
Sulfate	14808-79-8	1	0.454	mg/l	90-110		90-110	20	20	300.0	28 days	1 - Plastic 500ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Anions by Ion Chromatography

Aqueous samples:

The Dionex calculates the area of the peaks produced by the instrument, compares them to the peak area of the calibration standard stored in its memory, and calculates result in mg/L.

If the sample was manually diluted prior to analysis, the calculated mean must be manually multiplied by the dilution factor. The Reported Detection Limit is also multiplied by the same dilution factor.

$$\text{Result, mg/L} = \frac{\text{area - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

Subcontracted Data

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

June 18, 2024

Pace MA
Pace MA
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2430219
Pace Project No.: 50375152

Dear Pace MA:

Enclosed are the analytical results for sample(s) received by the laboratory on June 05, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer
tina.sayer@pacelabs.com
(317)228-3127
Project Manager

Enclosures

cc: Melissa Deyo, Pace MA

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Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: L2430219
Pace Project No.: 50375152

Pace Analytical Services Indianapolis
7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: L2430219
Pace Project No.: 50375152

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50375152001	**MW-1S**	Water	05/30/24 13:05	06/05/24 10:15
50375152002	**MW-2S**	Water	05/30/24 11:30	06/05/24 10:15
50375152003	**MW-3S**	Water	05/30/24 10:07	06/05/24 10:15
50375152004	**MW-4D**	Water	05/30/24 13:45	06/05/24 10:15
50375152005	**MW-5S**	Water	05/30/24 14:28	06/05/24 10:15
50375152006	**MW-6D**	Water	05/30/24 12:00	06/05/24 10:15
50375152007	**MW-7S**	Water	05/30/24 11:00	06/05/24 10:15
50375152008	**MW-8S**	Water	05/30/24 16:10	06/05/24 10:15
50375152009	**DUP**	Water	05/30/24 00:00	06/05/24 10:15

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SAMPLE ANALYTE COUNT

Project: L2430219
Pace Project No.: 50375152

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50375152001	**MW-1S**	EPA 9056	ADM	1
50375152002	**MW-2S**	EPA 9056	ADM	1
50375152003	**MW-3S**	EPA 9056	ADM	1
50375152004	**MW-4D**	EPA 9056	ADM	1
50375152005	**MW-5S**	EPA 9056	ADM	1
50375152006	**MW-6D**	EPA 9056	ADM	1
50375152007	**MW-7S**	EPA 9056	ADM	1
50375152008	**MW-8S**	EPA 9056	ADM	1
50375152009	**DUP**	EPA 9056	ADM	1

PASI-I = Pace Analytical Services - Indianapolis

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ANALYTICAL RESULTS

Project: L2430219
Pace Project No.: 50375152

Sample: MW-1S **Lab ID: 50375152001** Collected: 05/30/24 13:05 Received: 06/05/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/18/24 11:45		

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ANALYTICAL RESULTS

Project: L2430219
Pace Project No.: 50375152

Sample: MW-2S **Lab ID: 50375152002** Collected: 05/30/24 11:30 Received: 06/05/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/14/24 13:58		

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ANALYTICAL RESULTS

Project: L2430219
Pace Project No.: 50375152

Sample: MW-3S **Lab ID: 50375152003** Collected: 05/30/24 10:07 Received: 06/05/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/14/24 14:20		

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ANALYTICAL RESULTS

Project: L2430219
Pace Project No.: 50375152

Sample: MW-4D **Lab ID: 50375152004** Collected: 05/30/24 13:45 Received: 06/05/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/18/24 10:29		

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ANALYTICAL RESULTS

Project: L2430219
Pace Project No.: 50375152

Sample: MW-5S **Lab ID: 50375152005** Collected: 05/30/24 14:28 Received: 06/05/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/18/24 10:51		

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ANALYTICAL RESULTS

Project: L2430219
Pace Project No.: 50375152

Sample: MW-6D **Lab ID: 50375152006** Collected: 05/30/24 12:00 Received: 06/05/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/18/24 11:13		

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ANALYTICAL RESULTS

Project: L2430219
Pace Project No.: 50375152

Sample: MW-7S **Lab ID: 50375152007** Collected: 05/30/24 11:00 Received: 06/05/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/18/24 11:35		

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ANALYTICAL RESULTS

Project: L2430219
Pace Project No.: 50375152

Sample: MW-8S **Lab ID: 50375152008** Collected: 05/30/24 16:10 Received: 06/05/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/18/24 11:57		

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ANALYTICAL RESULTS

Project: L2430219
Pace Project No.: 50375152

Sample: DUP **Lab ID: 50375152009** Collected: 05/30/24 00:00 Received: 06/05/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		06/18/24 12:18		

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QUALITY CONTROL DATA

Project: L2430219
Pace Project No.: 50375152

QC Batch: 795258
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 Iodide by IC
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50375152001, 50375152002, 50375152003, 50375152004, 50375152005, 50375152006, 50375152007, 50375152008, 50375152009

METHOD BLANK: 3638498 Matrix: Water
Associated Lab Samples: 50375152001, 50375152002, 50375152003, 50375152004, 50375152005, 50375152006, 50375152007, 50375152008, 50375152009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iodide	mg/L	ND	0.50	06/14/24 11:34	

LABORATORY CONTROL SAMPLE: 3638499

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodide	mg/L	5	4.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3638505 3638506

Parameter	Units	50375152003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iodide	mg/L	ND	5	5	4.9	4.9	98	97	80-120	1	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: L2430219
Pace Project No.: 50375152

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2430219
Pace Project No.: 50375152

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50375152001	**MW-1S**	EPA 9056	795258		
50375152002	**MW-2S**	EPA 9056	795258		
50375152003	**MW-3S**	EPA 9056	795258		
50375152004	**MW-4D**	EPA 9056	795258		
50375152005	**MW-5S**	EPA 9056	795258		
50375152006	**MW-6D**	EPA 9056	795258		
50375152007	**MW-7S**	EPA 9056	795258		
50375152008	**MW-8S**	EPA 9056	795258		
50375152009	**DUP**	EPA 9056	795258		

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ALPHA ANALYTICAL
World-Class Chemistry

5037515Z

Subcontract Chain of Custody

Pace Analytical (Indianapolois, IN)
7726 Moller Road
Indianapolis, IN 46268

Alpha Job Number
L2430219

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 716.427.5229
Email: Melissa.Deyo@pacelabs.com

Project Information

Project Location: NY
Project Manager: Melissa Deyo

Turnaround & Deliverables Information

Due Date:
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:

Regulatory Criteria: NY-TOGS-GA

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2430219

Report to include Method Blank, LCS/LCSD:

Additional Comments: Invoices to: invoices@pacelabs.coupahost.com Reports to: west.subreports@pacelabs.com

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	MW-1S	05-30-24 13:05	WATER	Iodide	
	MW-2S	05-30-24 11:30	WATER	Iodide	
	MW-3S	05-30-24 10:07	WATER	Iodide	
	MW-4D	05-30-24 13:45	WATER	Iodide	
	MW-5S	05-30-24 14:28	WATER	Iodide	
	MW-6D	05-30-24 12:00	WATER	Iodide	
	MW-7S	05-30-24 11:00	WATER	Iodide	
	MW-8S	05-30-24 16:10	WATER	Iodide	
	DUP	05-30-24 00:00	WATER	Iodide	

	Relinquished By:	Date/Time:	Received By:	Date/Time:
		6/4/24	UPS	
	UPS	6.5.24 1015	[illegible] / PACE	6.5.24 1015

Form No: AL_subcoc

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: NMS 06.06.2024 1439

1. **Courier:** ☐FED EX ☒UPS ☐CLIENT ☐PACE ☐NOW/JETT ☐OTHER _____
2. **Custody Seal on Cooler/Box Present:** ☒ Yes ☐ No
   (If yes)Seals Intact: ☒ Yes ☐ No **(leave blank if no seals were present)**
3. **Thermometer:** 1 2 3 4 5 6 7 8 A B C (D) E F G H
4. **Cooler Temperature(s):** 1.6 / 1.6 | | | |
   (Initial/Corrected) **RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)**

5. **Packing Material:** ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other _____
6. **Ice Type:** ☒ Wet ☐ Blue ☐ None
7. **Was the PM notified of out of temp cooler?:** ☐ Yes ☐ No
   Cooler temp should be above freezing to 6°C
8. **EZ Bottle Order?** ☐ Yes ☒ No
   If yes but not on COC what is the EZ Bottle Order Number?:

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		X	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.** **Circle:** **HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9)** Any non-conformance to pH recommendations will be noted on the container count form			X
Short Hold Time Analysis (48 hours or less)? Analysis:		X				
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			X
Rush TAT Requested (4 days or less):		X	Residual Chlorine Check (Total/Amenable/Free Cyanide)			X
Custody Signatures Present?	X		Headspace Wisconsin Sulfide?			X
Containers Intact?:	X		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent X
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	X		Trip Blank Present?		X	
Extra labels on Terracore Vials? (soils only)		X	Trip Blank Custody Seals?:			X

COMMENTS:

COC PAGE 1 **of** 1

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS >6mm	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit		Matrix
1																		1										
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
Red	Yellow	Green	Black
HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3U	250mL Unpres Clear Glass
DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass
DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
VG9T	40mL Na Thio. clear vial	AG1T	1L Na Thiosulfate amber glass
VG9U	40mL unpreserved clear vial	AG1U	1liter unpres amber glass
I	40mL w/hexane wipe vial	AG2N	500mL HNO3 amber glass
WGKU	8oz unpreserved clear jar	AG2S	500mL H2SO4 amber glass
WGFU	4oz clear soil jar	AG2U	500mL unpres amber glass
JGFU	4oz unpreserved amber wide	AG3S	250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres. FF SO4/OH buffer		

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe